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EMERGENZA SISMA

COMUNE DI CONCORDIA SULLA SECCHIA - PROV. MODENA

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PROGETTO DEFINITIVO

descrizione intervento:

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ESECUZIONE DI OPERE COMPLEMENTARI PER LA REALIZZAZIONE DI UN
ARCHIVIO STORICO E DI UN LOCALE ARMERIA

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ADEGUAMENTO LOCALE ARMERIA

Relazione sulle verifiche strutturali dell'involucro metallico
antieffrazione

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1. RELAZIONE ILLUSTRATIVA

Le verifiche strutturali oggetto della presente relazione riguardano un involucro metallico da realizzarsi all'interno di un locale esistente del nuovo Municipio Temporaneo nel Comune di Concordia sulla Secchia (MO), lotto n. 2 degli Edifici Municipali Temporanei, realizzato dal Commissario Delegato per l'Emergenza Sisma Emilia 2012.

Si premette che detto involucro metallico viene realizzato con funzione antieffrazione all'interno di un locale esistente al solo fine di consentire l'uso di detto locale quale armeria a servizio dell'adiacente caserma dei Carabinieri.

Trattasi pertanto di un elemento di mera protezione, privo di qualunque funzione portante e non interferente, né in alcun modo collaborante, con le strutture dell'edificio esistente.

Trattandosi di un elemento costruttivo senza funzione strutturale il cui danneggiamento in caso di sisma potrebbe però provocare danni a persone, nella presente relazione sono state eseguite le verifiche di resistenza di tale elemento nei confronti dell'azione sismica.

L'edificio esistente all'interno del quale verrà realizzato l'involucro metallico in oggetto è situato in un'area con sottosuolo classificato in categoria C ed è stato progettato per una vita nominale di 50 anni ed una classe d'uso IV. Analoghi criteri saranno quindi adottati per le verifiche strutturali degli elementi metallici costituenti l'involucro.

La struttura costituente l'involucro è di grande semplicità ed costituita da profili metallici generalmente del tipo UPN assemblati tra loro sui quali sono fissati dei fogli di lamiera dello spessore di 10 mm per scopi di sicurezza. Detto involucro sarà poi rivesto da una controparete interna in lastre di cartongesso.

I profili metallici poggeranno al piede direttamente sulla soletta in c.a. esistente alla quale verranno ancorati mediante piastre e tasselli.

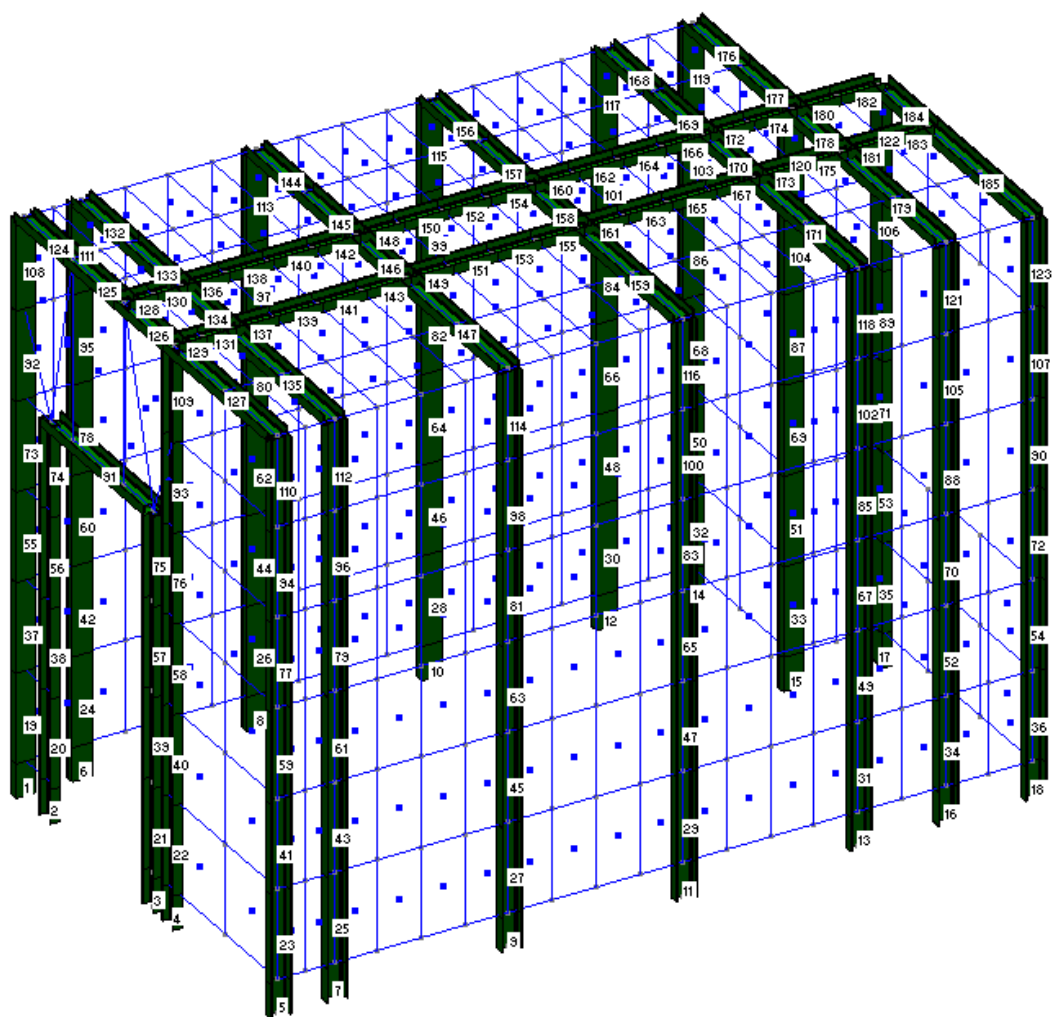
Vista l'importanza strategica dell'edificio municipale che deve assicurare operatività anche in caso di evento sismico, l'involucro antieffrazione in oggetto è stato modellato agli elementi finiti e verificato con analisi dinamica sia allo Stato Limite Ultimo che agli Stati Limite di Danno e di Operatività.

Ai fini della determinazione del fattore di struttura, la struttura è stata calcolata come “non dissipativa” adottando un valore del fattore di struttura q pari a 1; come da § 7.5, comma 2, delle NTC 2008. Data l'ipotesi di comportamento strutturale non dissipativo, la resistenza delle membrature e dei collegamenti è stata valutata in accordo con le regole di cui al § 4.2 delle NTC 2008, non essendo necessario soddisfare i requisiti di duttilità. Inoltre l'involucro è stato classificato come “non regolare in pianta” e “regolare in altezza”. Il fattore di struttura nei riguardi della componente verticale del sisma, in conformità al § 7.3.1, è stato adottato pari a 1.5.

Si prevede ad ogni modo che la struttura dell'involucro debba solo sopportare il solo proprio peso ed il peso delle finiture che risulta di oggettiva marginalità.

Dall'analisi dinamica l'involucro metallico risulta particolarmente rigido per la presenza delle lamiere che inducono un comportamento scatolare dell'involucro medesimo.

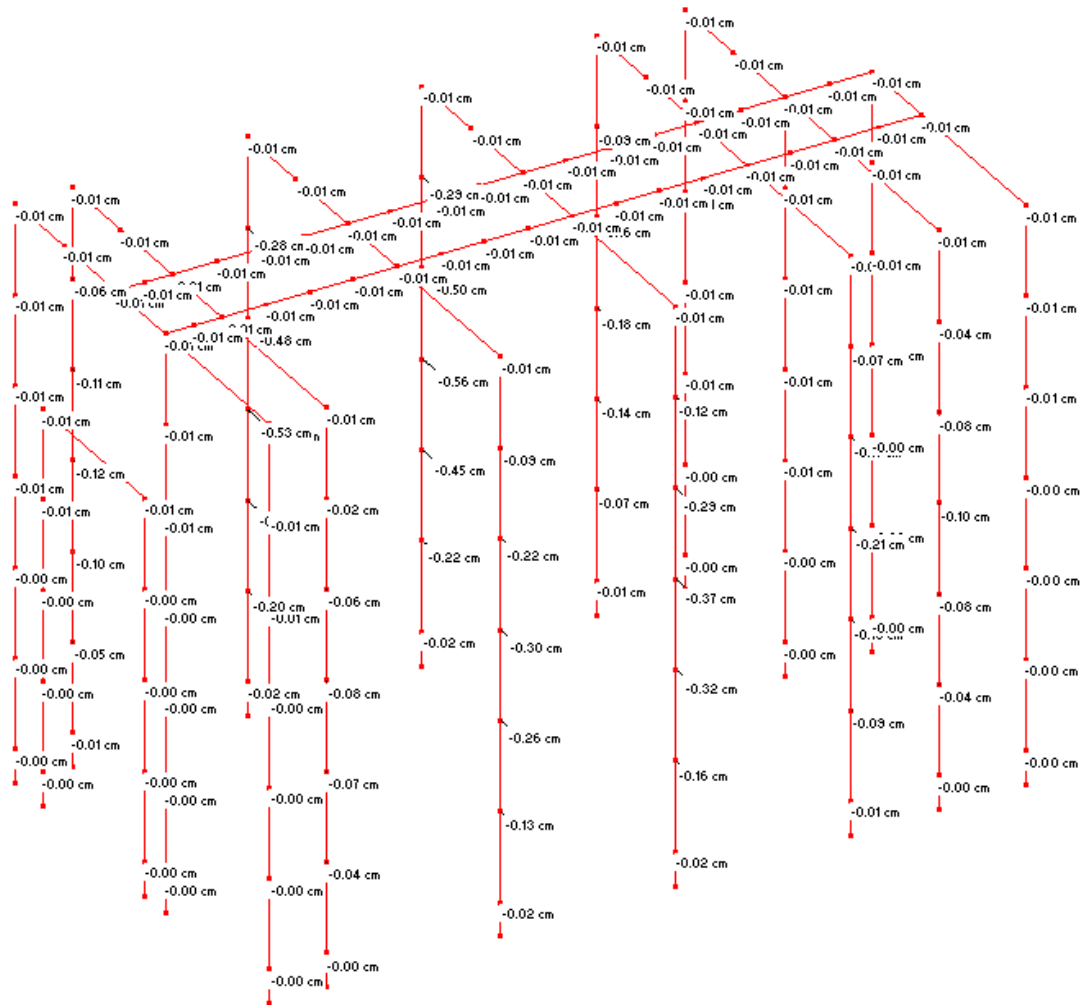
L'involucro risulta quindi verificato e gli spostamenti massimi SLV risultano dell'ordine dei 3-4 mm e non inducono martellamenti con gli elementi strutturali veri e propri dell'edificio esistente posti ad opportuna distanza; allo Stato Limite di Operatività gli spostamenti risultano inferiori al millimetro.



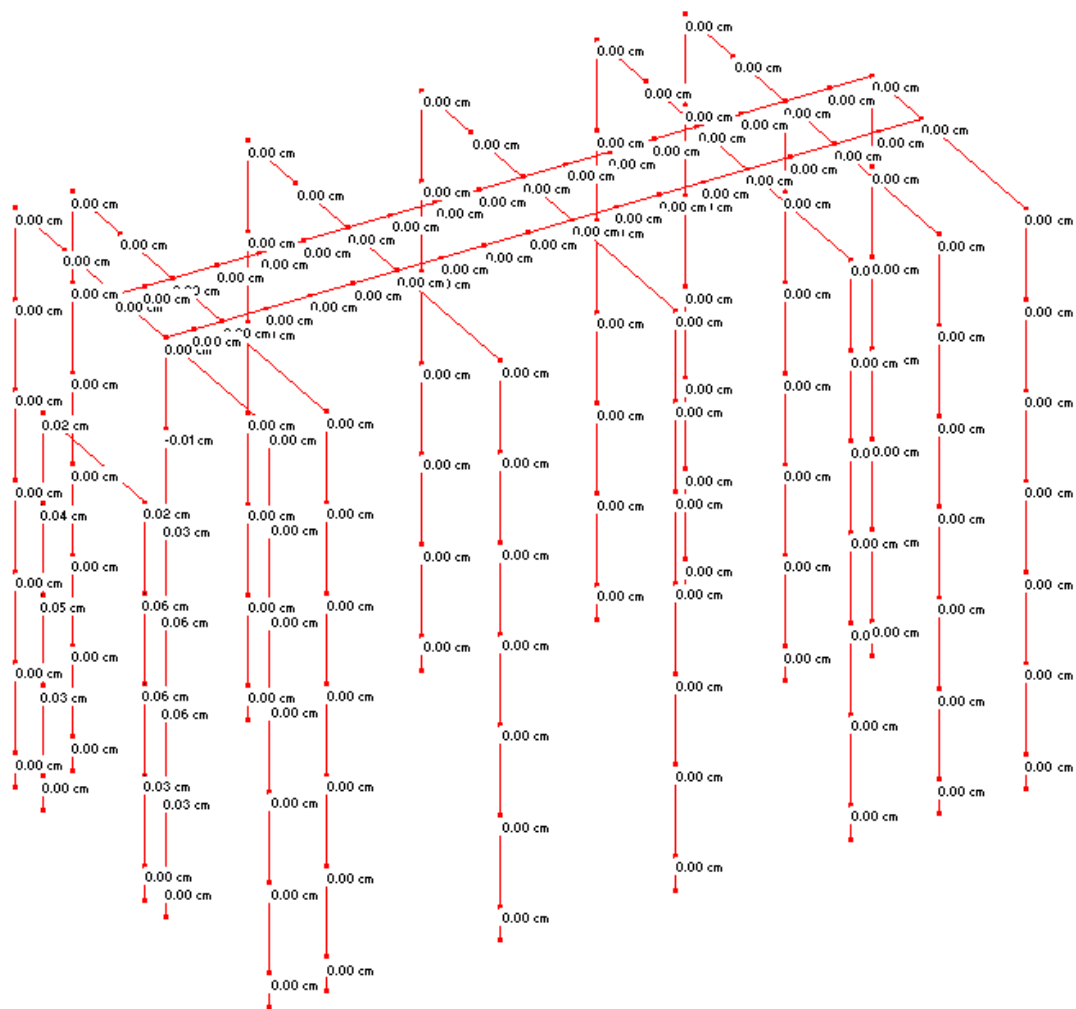
In sede di progettazione esecutiva dell'involucro dovranno essere definite costruttivamente e riverificate sotto il profilo strutturale tutte le unioni dei componenti dell'involucro metallico (profili e lamiere) e gli ancoraggi al piede nella configurazione che sarà effettivamente realizzata.

1.1 Principali risultati

Si riportano di seguito i principali risultati:

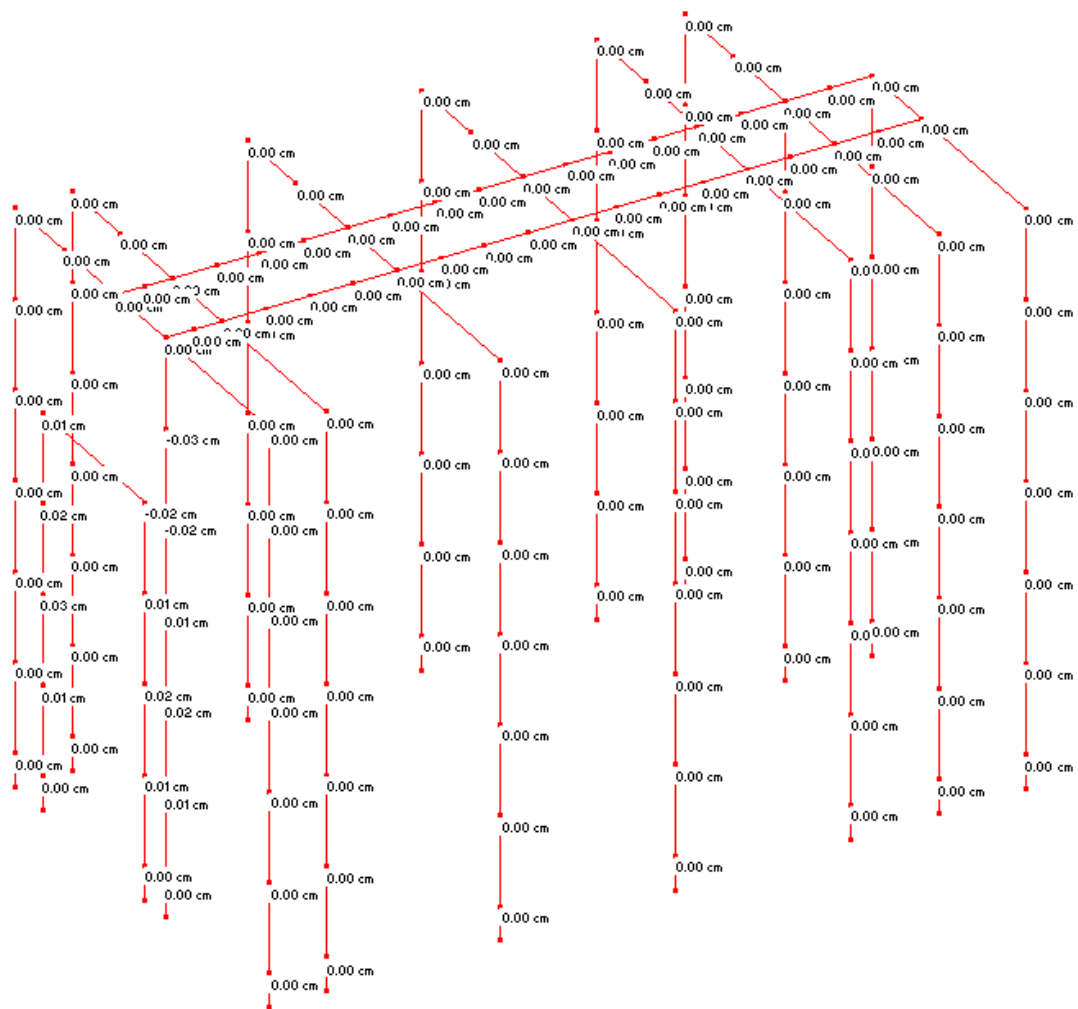


Spostamenti x SLV



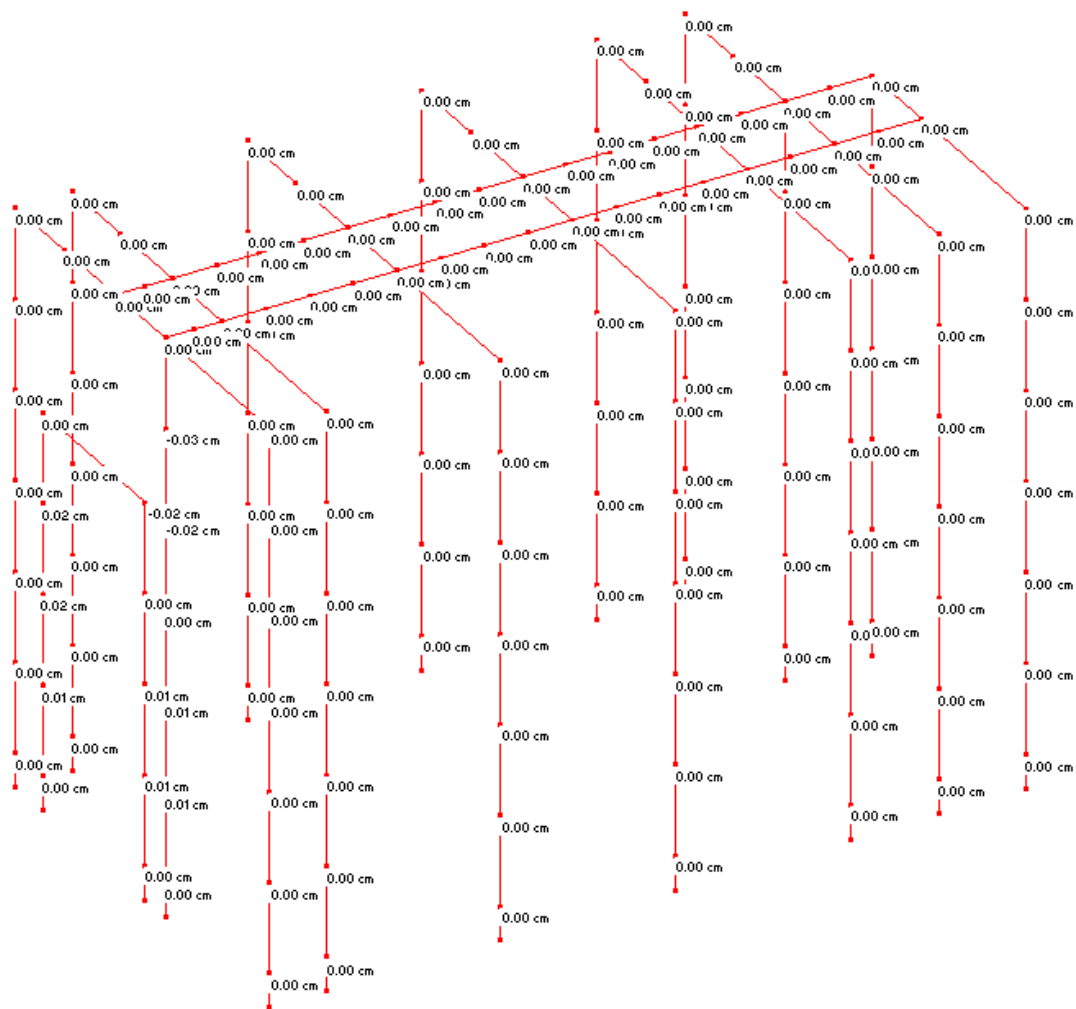
Spostamenti y SLV

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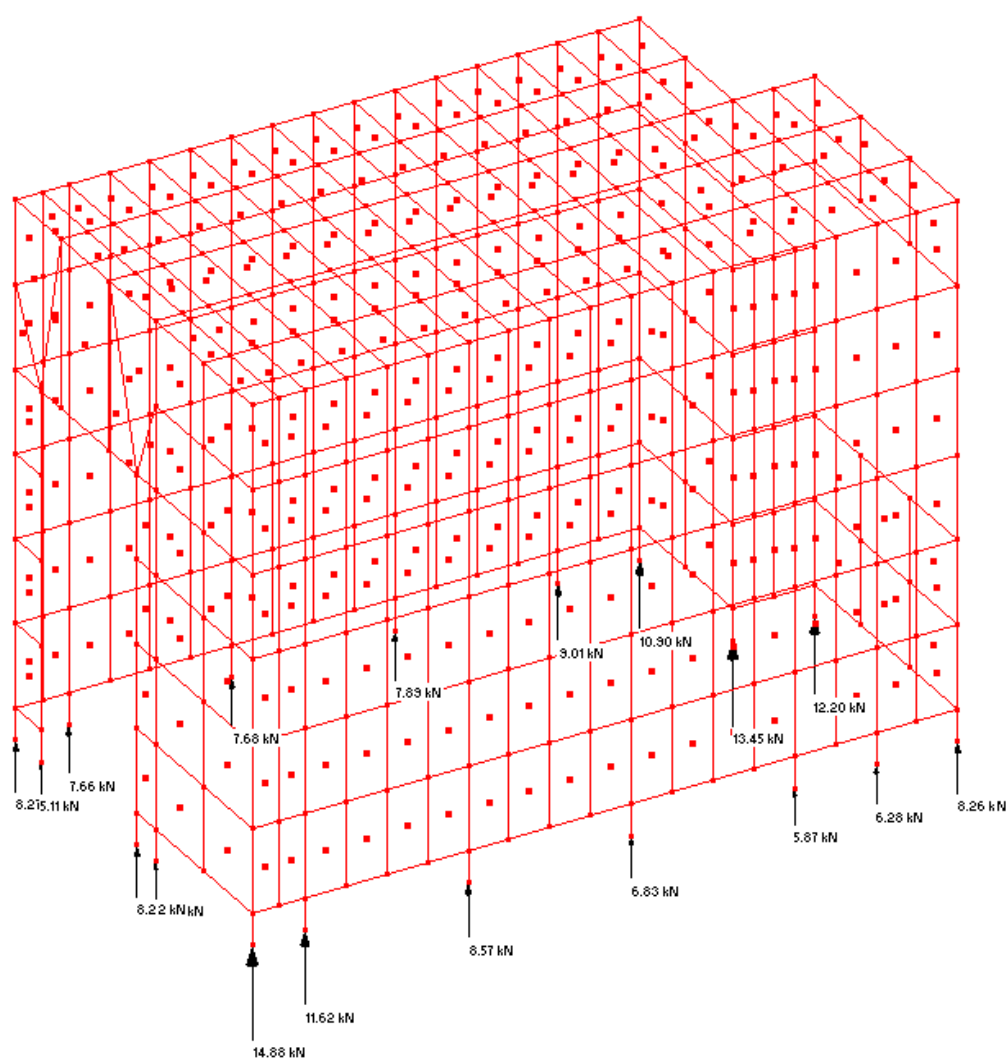


Spostamenti y SLD

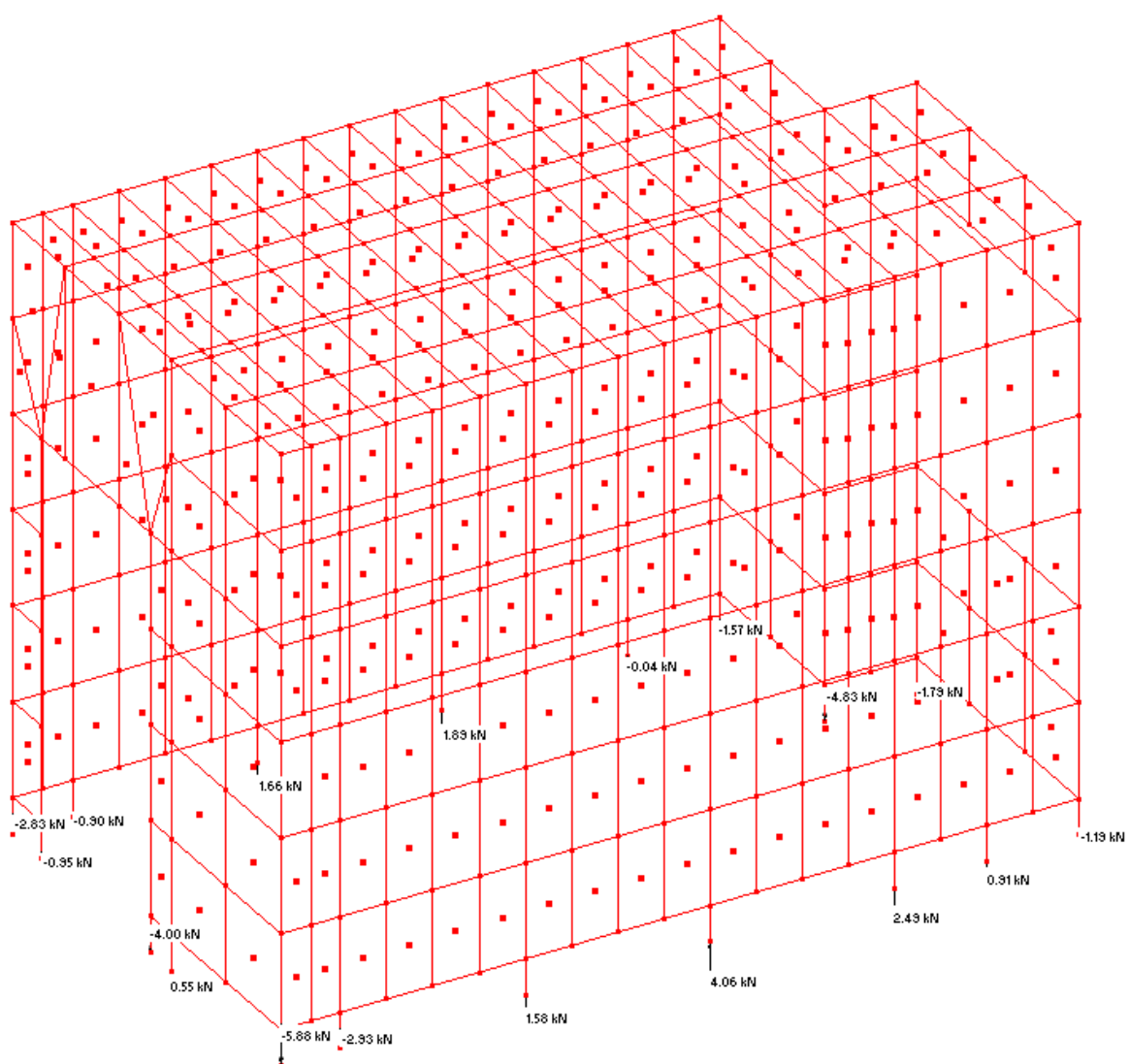
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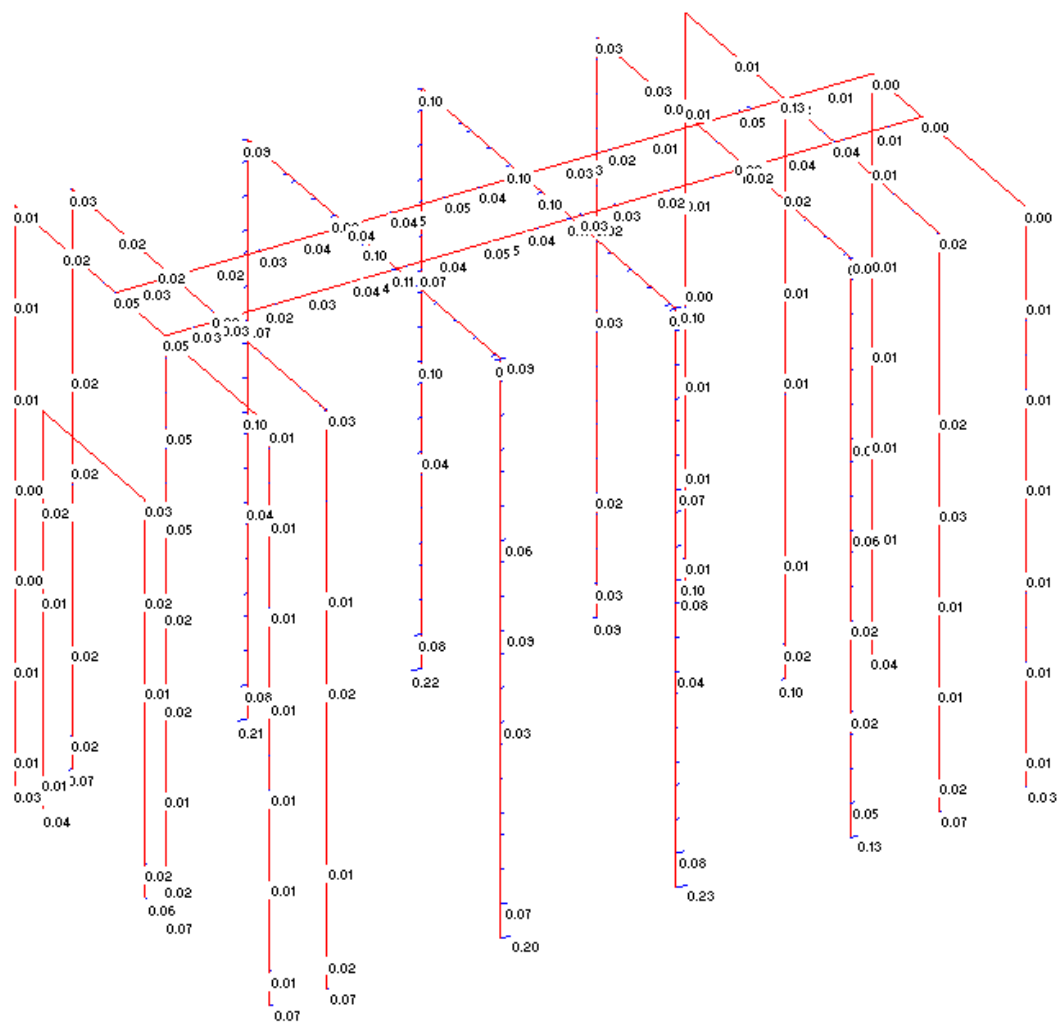
Spostamenti y SLO



Reazioni vincolari al piede massime



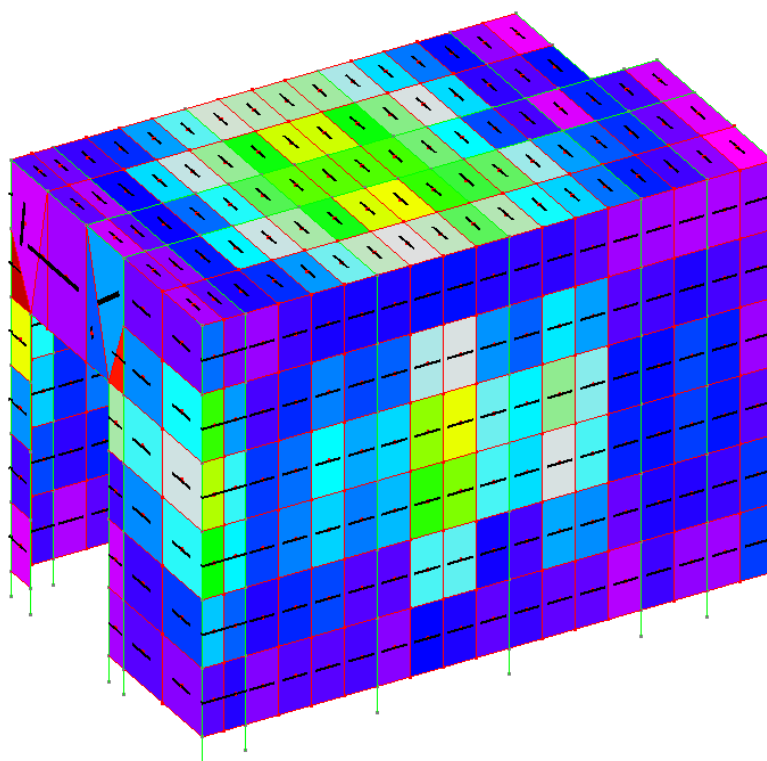
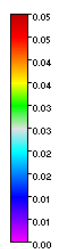
Reazioni vincolari al piede minime



Verifiche profili

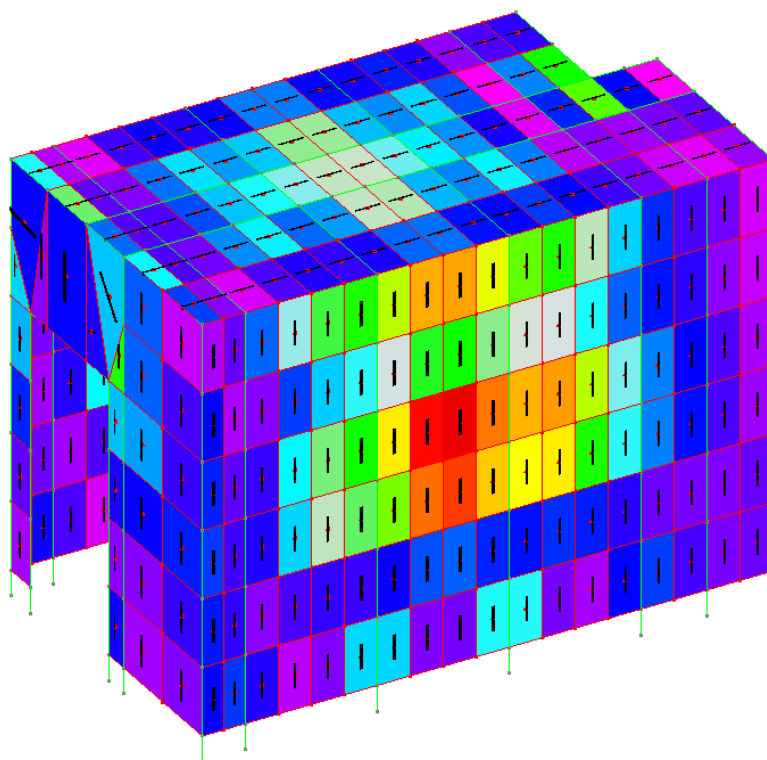
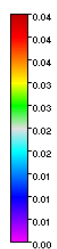
Verifica SLU

Coef. Sfruttamento NM direzione 2



Verifica SLU

Coef. Sfruttamento NM direzione 3



Verifiche SLV shell direzione 2 e 3

RELAZIONE DI CALCOLO

Programma: **CMP v.27.00**

Codice Utente: **32906**

Data ed ora dell'elaborazione: **23-2-2016 , 18:52:36**

Nome Modello: ***Modello***

Nome File: **CMP2.cmp**

2. DESCRIZIONE DEI DATI DEL MODELLO

Di seguito sono descritti i dati geometrici e non del modello fisico-matematico utilizzato per il calcolo strutturale.

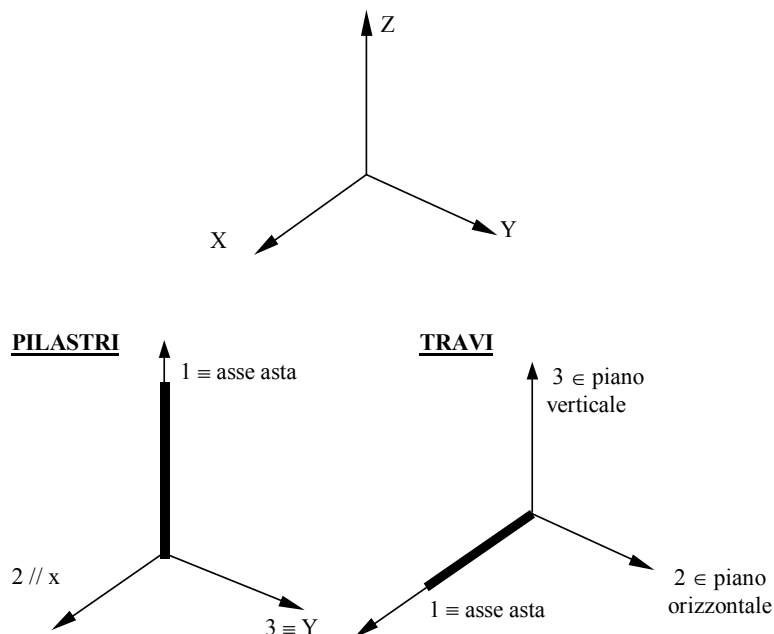
2.1 INTRODUZIONE

2.1.1 Sistemi di riferimento

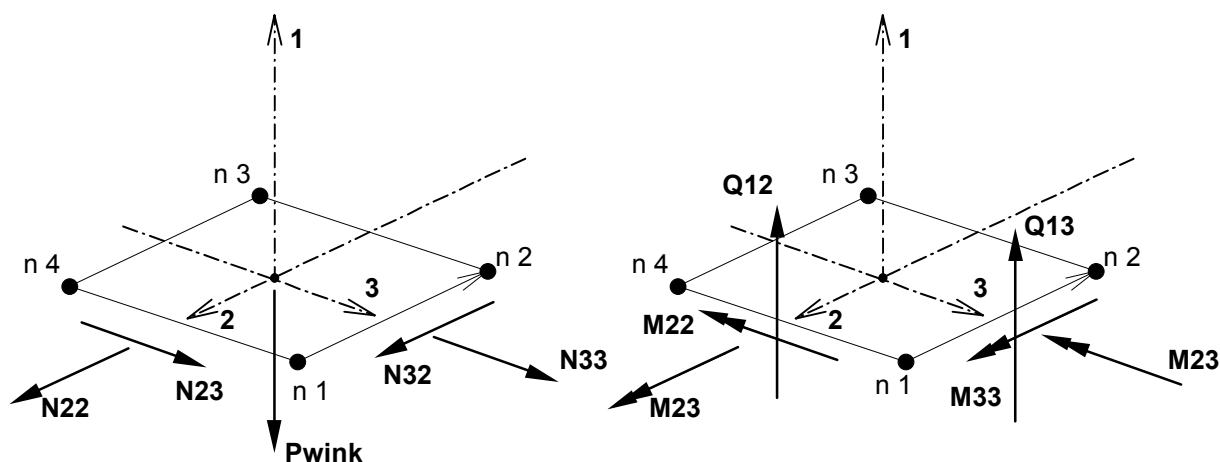
Il Sistema di Riferimento Globale XYZ è una Terna destrorsa cartesiana con l'asse Z verticale rivolto verso l'alto.

Il Sistema di Riferimento Locale 123 degli Elementi tipo Beam è una Terna destrorsa Cartesiana con asse 1 avente la direzione dell'elemento, asse 2 definibile dall'utente e asse 3 avente la direzione che completa la terna.

Il Sistema di Riferimento Locale 123 predefinito degli Elementi tipo Shell è una Terna destrorsa cartesiana con origine nel baricentro dell'Elemento, asse 1 avente la direzione della normale, asse 2 avente la direzione della congiungente i punti medi dei due lati N2-N3 e N1-N4 (N1,N2,N3,N4 sono i nodi che definiscono l'elemento) e asse 3 avente la direzione che completa la terna.



Riferimento locale aste e sezioni



Convenzioni di segno - sollecitazioni Shell

2.1.2 Modellazione

La Modellazione Numerica della struttura, la rielaborazione dei risultati dell'analisi agli Elementi Finiti, la progettazione-verifica degli elementi strutturali sono state condotte utilizzando il programma CMP realizzato dalla Cooperativa Architetti e Ingegneri Progettazione di Reggio Emilia. Il solutore ad elementi finiti utilizzato è *XFINEST della Ce.A.S. di Milano*.

2.1.3 Normativa

Per la progettazione e verifica degli elementi strutturali è stata utilizzata la seguente normativa:

Normativa italiana D.M. 14/01/2008 Stati Limite

Classe d'Uso: 4

Vita Nominale: 50 anni

2.2 CARATTERISTICHE DEI MATERIALI

Di seguito vengono elencati i materiali usati nel modello:

Dati generali

ID	= numero identificativo del materiale
E	= modulo di Elasticità
ν	= coefficiente di Poisson
G	= modulo di Elasticità Tangenziale
Ps	= peso specifico
α	= coefficiente di Dilatazione Termica
f_{yk}	= tensione caratteristica di snervamento
f_u	= resistenza ultima a trazione
ε_{ud}	= deformazione ultima
$\gamma_{M,c}$	= coeff. parziale materiale per resistenza a SLU per compressione
$\gamma_{M,t}$	= coeff. parziale materiale per resistenza a SLU per trazione
γ_M	= coeff. parziale materiale per resistenza a SLU
$\gamma_{M,ecc}$	= coeff. parziale materiale per resistenza a SLU per situazioni eccezionali

Dati specifici per calcestruzzo

R_{ck}	= resistenza caratteristica cubica di compressione del calcestruzzo
f_{ck}	= resistenza caratteristica cilindrica di compressione del calcestruzzo
f_{ctk}	= resistenza caratteristica di trazione del calcestruzzo
f_{ctm}	= resistenza media di trazione del calcestruzzo

$f_{tc,eff}$	= resistenza media di trazione efficace del calcestruzzo al momento in cui si suppone l'insorgere delle prime fessure
γ_c	= coeff. parziale materiale per resistenza a SLU per compressione del calcestruzzo
α_{cc}	= coefficiente riduttivo per le resistenze a compressione di lunga durata
α_{ct}	= coefficiente riduttivo per le resistenze a trazione di lunga durata

Dati specifici per acciaio da carpenteria

f_y	= tensione di snervamento acciaio per spessori minori o uguali a 40mm
f_{y1}	= tensione di snervamento acciaio per spessori maggiori di 40mm
$\gamma_{M0,c}$	= coeff. parziale materiale per resistenza a SLU per compressione per acciaio da carpenteria (per il DM 14/09/2005 corrisponde a γ_M)
$\gamma_{M0,t}$	= coeff. parziale materiale per resistenza a SLU per trazione per acciaio da carpenteria
γ_{M1}	= coeff. parziale materiale per resistenza a SLU per acciaio da carpenteria per verifiche di instabilità (per il DM 14/09/2005 corrisponde a γ_M)

Dati specifici per legno strutturale

Cl.Serv.	= classe di servizio per materiali di tipo "legno strutturale"
$k_{mod,perm}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni permanenti
$k_{mod,lung}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni di lunga durata
$k_{mod,med}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni di media durata
$k_{mod,brev}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni di breve durata
$k_{mod,ist}$	= coefficiente di modificazione delle resistenze del legno strutturale in presenza di azioni istantanee
k_{def}	= coefficiente per l'abbattimento delle caratteristiche di rigidità del legno strutturale per il calcolo delle deformazioni a lungo termine.
$f_{m,k}$	= resistenza caratteristica del legno strutturale a flessione.
$f_{t,0,k}$	= resistenza caratteristica del legno strutturale a trazione parallela alla fibratura.
$f_{t,90,k}$	= resistenza caratteristica del legno strutturale a trazione perpendicolare alla fibratura.
$f_{c,0,k}$	= resistenza caratteristica del legno strutturale a compressione parallela alla fibratura.
$f_{c,90,k}$	= resistenza caratteristica del legno strutturale a compressione perpendicolare alla fibratura.
$f_{v,k}$	= resistenza caratteristica del legno strutturale a taglio in direzione perpendicolare alla fibratura (cioè quello che agisce in un piano perpendicolare alla fibratura stessa).
$f_{v,r,k}$	= resistenza caratteristica del legno strutturale a taglio di rotolamento (cioè quello che determina lo scorrimento delle fibre rispetto a quelle adiacenti agendo in un piano parallelo alla direzione di fibratura, con direzione perpendicolare alla fibratura).
$f_{v,b,k}$	= resistenza caratteristica del legno strutturale a taglio da spacco (cioè quello che determina lo scorrimento delle fibre rispetto a quelle adiacenti agendo in un piano parallelo alla direzione di fibratura, con direzione parallela alla fibratura stessa).
$E_{0,k}$	= modulo elastico caratteristico del legno strutturale in direzione parallela alla fibratura.
$E_{90,k}$	= modulo elastico caratteristico del legno strutturale in direzione perpendicolare alla fibratura.
ρ_k	= densità caratteristica del legno strutturale.

Dati specifici per pannelli di tavole di legno massiccio incrociato (XLam)

- EA_2 = rigidezza membranale dei pannelli XLam in direzione 2
 EA_3 = rigidezza membranale dei pannelli XLam in direzione 3
 EJ_2 = rigidezza flessionale dei pannelli XLam in direzione 2
 EJ_3 = rigidezza flessionale dei pannelli XLam in direzione 3
 GA_{v12} = rigidezza dei pannelli XLam a taglio fuori piano sulla faccia perpendicolare alla direzione 2 (cioè quella associata all'azione interna Q12 degli elementi Shell, vedi LINK-SOLLECITAZIONI SHELL).
 GA_{v13} = rigidezza dei pannelli XLam a taglio fuori piano sulla faccia perpendicolare alla direzione 3 (cioè quella associata all'azione interna Q13 degli elementi Shell, vedi LINK-SOLLECITAZIONI SHELL).
 GA_{v23} = rigidezza dei pannelli XLam a taglio membranale (cioè quella associata all'azione interna N23 degli elementi Shell, vedi LINK-SOLLECITAZIONI SHELL).
 $GrpEsig$ = è gruppo di esigenza (livello di aggressività dell'ambiente) per le verifiche SLE; par.4.3.1.6 del DM 9/1/1996 (a = condizioni ambiente poco aggressivo, b = moderatamente aggressivo, c = molto aggressivo) oppure par.5.1.2.2.6.5 del DM 14/09/2005 o par.4.1.2.2.4.3 DM 14/01/2008 (a = condizioni ambientali ordinarie, b = aggressive, c = molto aggressive). Per l'Eurocodice corrisponde alla classe di esposizione, prospetto 7.1N EN 1992-1-1:2005 (a = X0, XC1, b = XC2, XC3, XC4, c = XD1, XD2, XS1, XS2, XS3)

Nome Materiale: B450C

ID = 26

Proprietà reologiche:

$$E = 2e+005 \text{ N/mm}^2$$

$$P_s = 78.5 \text{ kN/m}^3$$

$$\nu = 0.300$$

$$\alpha = 1.2e-005 \text{ 1/}^\circ\text{C}$$

$$G = 76923 \text{ N/mm}^2$$

Parametri di verifica:

Tipologia del Materiale: Acciaio per Armature

$$f_{yk} = 450 \text{ N/mm}^2$$

Tipo Armatura = armatura poco sensibile

$$\gamma_{M,c} = 1.15$$

Valori di progetto

$$\gamma_{M,t} = 1.15$$

$$f_{cd} = 391.3 \text{ N/mm}^2$$

$$\gamma_{M,ecc} = 1$$

$$f_{ctd} = 391.3 \text{ N/mm}^2$$

$$f_u = 540 \text{ N/mm}^2$$

$$\varepsilon_{ud} = 0.0675$$

Aderenza Migliorata = Si

Nome Materiale: S 275

ID = 29

Proprietà reologiche:

$$E = 2.1e+005 \text{ N/mm}^2$$

$$P_s = 78.5 \text{ kN/m}^3$$

$$\nu = 0.300$$

$$\alpha = 1.2e-005 \text{ 1/}^\circ\text{C}$$

$$G = 80769 \text{ N/mm}^2$$

Parametri di verifica:

Tipologia del Materiale: Acciaio da Carpenteria

$$f_y = 275 \text{ N/mm}^2$$

$$f_u = 430 \text{ N/mm}^2$$

$$f_{y1} = 255 \text{ N/mm}^2$$

Valori di progetto

$$\gamma_{M0,c} = 1.05$$

$$f_{cd} = 261.9 \text{ N/mm}^2$$

$$\gamma_{M0,t} = 1.05$$

$$f_{ctd} = 261.9 \text{ N/mm}^2$$

$$\gamma_{M1} = 1.05$$

$$\gamma_{M,ecc} = 1$$

2.3 DESCRIZIONE SEZIONI

2.3.1 Caratteristiche statiche delle sezioni

Le caratteristiche statiche delle sezioni utilizzate nel modello sono riportate nella seguente tabella con il seguente significato dei simboli

Sez	= Nome della Sezione
A	= Area della Sezione
I_{22}^*	= Momento d'Inerzia rispetto all'asse locale baricentrico 2* parallelo all'asse locale 2 della sezione
I_{33}^*	= Momento d'Inerzia rispetto all'asse locale baricentrico 3* parallelo all'asse locale 3 della sezione
I_{23}^*	= Momento d'Inerzia centrifugo rispetto agli assi locali baricentrici 2* e 3* paralleli rispettivamente all'asse locale 2 e 3 della sezione
I_{44}	= Momento d'Inerzia Principale (Minimo) rispetto all'asse baricentrico 4
I_{55}	= Momento d'Inerzia Principale (Massimo) rispetto all'asse baricentrico 5
θ	= Angolo formato dagli assi principali d'inerzia rispetto agli assi locali 2 e 3 della sezione.
i_{22}^*	= Raggio d'Inerzia rispetto all'asse locale baricentrico 2*
i_{33}^*	= Raggio d'Inerzia rispetto all'asse locale baricentrico 3*
i_{44}	= Raggio d'Inerzia rispetto all'asse locale baricentrico 4
i_{55}	= Raggio d'Inerzia rispetto all'asse locale baricentrico 5
J_T	= Fattore di Rigidezza Torsionale
AT2	= Area Resistente a Taglio in direzione dell'asse locale 2 della sezione (se vale 0 non viene considerata la deformabilità a taglio)
AT3	= Area Resistente a Taglio in direzione dell'asse locale 3 della sezione (se vale 0 non viene considerata la deformabilità a taglio)
qp	= Peso proprio (forza per unità di lunghezza) della sezione
&	= Indica che la quantità è stata forzata e non calcolata da CMP

I nomi delle sezioni che terminano con un “/N”, ove N è un numero, si riferiscono all'armatura N.

	A (cm ²)	I_{22}^* (cm ⁴)	I_{33}^* (cm ⁴)	I_{23}^* (cm ⁴)	I_{44} (cm ⁴)	I_{55} (cm ⁴)	θ (°)	i_{22}^* (cm)
	i_{33}^* (cm)	i_{44} (cm)	i_{55} (cm)	J_T (cm ⁴)	AT2 (cm ²)	AT3 (cm ²)	qp (kN/m)	
Nome Sezione: L [LU L 80 xx 10]								
	15.1073092	87.50323282	87.50323282	-51.1287584	36.37447439	138.6319913	-45.00000000	2.406680784
	2.406680784	1.551689439	3.029271311	5.000000000	0.	0.	0.1185924	
Nome Sezione: U [UPN 120]								
	16.9898024	364.3784044	43.05127744	0.	43.05127744	364.3784044	90.00000000	4.631078585
	1.591837960	1.591837960	4.631078585	4.150000095	0.	0.	0.1333700	

2.3.2 Geometria sezioni

Di seguito vengono elencate le caratteristiche geometriche delle sezioni presenti nel modello.

Sezione: L [LU L 80 xx 10] - Sezione Base

Poligonale n°1

Caratteristiche poligonale: chiusa, strutturale, piena

Coefficiente di Omog.: 1

Materiale Poligonale: S 275

N° vertice	Coord.X (cm)	Coord.Y (cm)
1	-2.33609	-2.33609
2	5.66391	-2.33609
3	5.66391	-1.83609
4	5.64436	-1.67998

N° vertice	Coord.X (cm)	Coord.Y (cm)
5	5.57261	-1.53915
6	5.46085	-1.42739
7	5.32002	-1.35564
8	5.16391	-1.33609
9	-0.336088	-1.33609
10	-0.648303	-1.29699
11	-0.929955	-1.15348
12	-1.15348	-0.929955
13	-1.29699	-0.648303
14	-1.33609	-0.336088
15	-1.33609	5.16391
16	-1.35564	5.32002
17	-1.42739	5.46085
18	-1.53915	5.57261
19	-1.67998	5.64436
20	-1.83609	5.66391
21	-2.33609	5.66391

Sezione: U [UPN 120] - Sezione Base

Poligonale n°1

Caratteristiche poligonale: chiusa, strutturale, piena

Coefficiente di Omog.: 1

Materiale Poligonale: S 275

N° vertice	Coord.X (cm)	Coord.Y (cm)
1	-1.60568	-6
2	3.89432	-6
3	3.89432	-5.73544
4	3.87767	-5.60224
5	3.81942	-5.48081
6	3.72805	-5.38184
7	3.61165	-5.31409
8	3.48021	-5.28687
9	-0.0774489	-5.00226
10	-0.340332	-4.94782
11	-0.573142	-4.81231
12	-0.755866	-4.61439
13	-0.872378	-4.37151
14	-0.905678	-4.10512
15	-0.905678	4.10512
16	-0.872378	4.37151
17	-0.755866	4.61439
18	-0.573142	4.81231
19	-0.340332	4.94782
20	-0.0774489	5.00226
21	3.48021	5.28687
22	3.61165	5.31409
23	3.72805	5.38184
24	3.81942	5.48081
25	3.87767	5.60224
26	3.89432	5.73544
27	3.89432	6
28	-1.60568	6

2.4 DESCRIZIONE DELLE CONDIZIONI DI CARICO ELEMENTARI STATICHE

Il peso proprio degli Elementi tipo Beam e tipo Shell viene calcolato automaticamente in base alle caratteristiche dei materiali, alla geometria degli elementi e ai seguenti parametri:

- CdC = Numero Condizione di Carico Elementare
- mltX = Moltiplicatore del peso proprio in direzione X Globale
- mltY = Moltiplicatore del peso proprio in direzione Y Globale
- mltZ = Moltiplicatore del peso proprio in direzione Z Globale
- Tipo = Tipo di Condizione di Carico (St = Statico, StEq = Sismico Statico Equivalente)
- Ψ_0, Ψ_1, Ψ_2 = coefficienti di combinazione

Ψ_{2s} = coefficiente di combinazione sismica
 φ = coefficiente per calcolo masse

Nome	CdC	mltX	mltY	mltZ	Tipo	Ψ_0	Ψ_1	Ψ_2	Ψ_{2s}	φ
CdC n. 1	1	0	0	-1	Permanente (St)	1	1	1	1	1
CdC n. 2	2	0	0	0	Permanente non strutt (St)	1	1	1	1	1

2.5 DESCRIZIONE DEGLI IMPALCATI

Gli Impalcati sono definiti nel modello al fine di gestire le operazioni legate al comportamento “di piano” (es. eccentricità accidentale delle masse in condizioni sismiche, ecc.) e “d’interpiano” (es, spostamenti orizzontali relativi, calcolo del fattore θ , deformabilità torsionale della struttura, ecc.). A tale scopo sono assegnati i parametri per il riconoscimento delle entità che fanno parte di un certo Impalcato e della posizione relativa dei vari Impalcati, al fine di riconoscere quali di essi devono essere correlati. È inoltre possibile indicare comportamenti “particolari” per ciascun Impalcato.

Gli Impalcati definiti nel modello ed i parametri ad essi relativi sono riportati nella tabella seguente, nella quale i simboli adottati hanno il significato descritto nel seguito:

Impalcato = nome che individua l’Impalcato in esame;

Verticali = elenco delle Verticali delle quali fa parte l’impalcato in esame; ogni Verticale è costituita da un insieme di Impalcati correlati verticalmente, ossia posti uno sopra l’altro;

Quota = quota di riferimento dell’Impalcato, utilizzata ad esempio per il calcolo dell’altezza d’interpiano;

Poligono = se presente, delimita l’ingombro in pianta dell’Impalcato; se è indicato un valore nullo l’Impalcato non ha limiti di estensione planimetrica; se è indicato un trattino “-” la definizione dell’Impalcato è legata ad un gruppo di selezione e non a criteri geometrici;

DZsup = se presente, indica la tolleranza altimetrica superiore, cioè al di sopra della quota di riferimento, che individua la quota massima delle entità facenti parte dell’Impalcato; se è indicato un trattino “-” la definizione dell’Impalcato è legata ad un gruppo di selezione e non a criteri geometrici;

DZinf = se presente, indica la tolleranza altimetrica inferiore, cioè al di sotto della quota di riferimento, che individua la quota minima delle entità facenti parte dell’Impalcato;

Selezione = se presente, individua il gruppo di selezione che definisce le entità facenti parte dell’Impalcato; se è indicato un trattino “-” la definizione dell’Impalcato è legata a criteri geometrici e non ad un gruppo di selezione;

Ecc. masse = se “si” per l’impalcato in questione viene generata automaticamente una distribuzione di masse tale da generare l’eccentricità definita nel capitolo “Analisi Sismica”;

Nodo Master = se presente determina l’assegnazione automatica di un vincolo di piano rigido a tutti i nodi facenti parte dell’Impalcato; se assente non esclude comunque che tale proprietà sia stata assegnata attraverso altre procedure;

Modalità θ = indica la modalità utilizzata per il calcolo del fattore θ :

- DM’08 : il calcolo è condotto secondo il § 7.3.1 del D.M. 14/01/2008 formula (7.3.2);

- Pend : il calcolo è condotto tenendo conto del reale punto di applicazione dei carichi agli Impalcati superiori;

Riferimento θ = indica il sistema di riferimento utilizzato per il calcolo del fattore θ :

- // Sisma : forze e spostamenti di piano sono determinati considerando direzioni orizzontali parallele a quelle di ingresso del sisma;

- Globale : forze e spostamenti di piano sono determinati considerando direzioni orizzontali parallele agli assi X ed Y del sistema di riferimento globale;
- Loc. 23 : forze e spostamenti di piano sono determinati considerando direzioni orizzontali concordi con gli assi locali 2 e 3 di un elemento Beam, Truss specificato, ovvero con gli assi 1 (se orizzontale) o 2 di un elemento Shell
- Loc. 45 : forze e spostamenti di piano sono determinati considerando direzioni orizzontali concordi con gli assi principali 4 e 5 di un elemento Beam, Truss specificato;

Elemento θ = se il riferimento usato per il calcolo del fattore θ è di tipo “locale”, indica l'elemento dal quale ricavare le direzioni orizzontali di riferimento.

Impalcato	Verticali	Quota (cm)	Poligono	DZsup (cm)	DZinf (cm)	Selezione
Ecc. masse	Nodo Master	Modalità θ	Riferimento θ		Elemento θ	Nodo θ
Impalcato n°1	Vert1	317	0	0	0	-
Si	-	Pend	// Sisma		-	291

2.6 DESCRIZIONE NODI

2.6.1 Nodi: geometria, vincoli fissi esterni e nodi master

La geometria e le altre caratteristiche dei nodi costituenti il modello sono riportate nella seguente tabella con il seguente significato dei simboli:

- Nodo = Numero del Nodo
X,Y,Z = Coordinate dei nodi rispetto al sistema di Riferimento Globale
Vincoli = Vincolamento dei nodi rappresentato da sei cifre(0/1): queste sei cifre (0 = libero, 1 = vincolato) rappresentano il vincolamento dei seguenti gradi di libertà, nell'ordine:
spostamento in direzione x, y, z, rotazione attorno all'asse x, y, z
n.Master = Nodo Master
Piano = Piano in cui si impone il comportamento Master-Slave
Fase = fase di appartenenza

Nodo	X (cm)	Y (cm)	Z (cm)	Vincoli	n.Master	Piano	Fase				
1	0.	-33.000	-20.000	1 1 1 1 1 1				33	0.	76.5000	0.
2	27.0000	-33.000	-20.000	1 1 1 1 1 1				34	256.000	76.5000	0.
3	131.000	-33.000	-20.000	1 1 1 1 1 1				35	0.	102.000	0.
4	151.000	-33.000	-20.000	1 1 1 1 1 1				36	256.000	102.000	0.
5	256.000	-33.000	-20.000	1 1 1 1 1 1				37	0.	127.500	0.
6	0.	0.	-20.000	1 1 1 1 1 1				38	256.000	127.500	0.
7	256.000	0.	-20.000	1 1 1 1 1 1				39	0.	153.000	0.
8	0.	102.000	-20.000	1 1 1 1 1 1				40	256.000	153.000	0.
9	256.000	102.000	-20.000	1 1 1 1 1 1				41	0.	178.500	0.
10	0.	204.000	-20.000	1 1 1 1 1 1				42	256.000	178.500	0.
11	256.000	204.000	-20.000	1 1 1 1 1 1				43	0.	204.000	0.
12	0.	306.000	-20.000	1 1 1 1 1 1				44	256.000	204.000	0.
13	256.000	306.000	-20.000	1 1 1 1 1 1				45	0.	229.500	0.
14	0.	357.000	-20.000	1 1 1 1 1 1				46	256.000	229.500	0.
15	101.000	357.000	-20.000	1 1 1 1 1 1				47	0.	255.000	0.
16	256.000	357.000	-20.000	1 1 1 1 1 1				48	256.000	255.000	0.
17	101.000	408.000	-20.000	1 1 1 1 1 1				49	0.	280.500	0.
18	256.000	408.000	-20.000	1 1 1 1 1 1				50	256.000	280.500	0.
19	0.	-33.000	0.					51	0.	306.000	0.
20	27.0000	-33.000	0.					52	256.000	306.000	0.
21	131.000	-33.000	0.					53	0.	331.500	0.
22	151.000	-33.000	0.					54	256.000	331.500	0.
23	203.500	-33.000	0.					55	0.	357.000	0.
24	256.000	-33.000	0.					56	49.0000	357.000	0.
25	0.	-16.500	0.					57	101.000	357.000	0.
26	256.000	-16.500	0.					58	256.000	357.000	0.
27	0.	0.	0.					59	101.000	382.500	0.
28	256.000	0.	0.					60	256.000	382.500	0.
29	0.	25.5000	0.					61	101.000	408.000	0.
30	256.000	25.5000	0.					62	151.000	408.000	0.
31	0.	51.0000	0.					63	203.500	408.000	0.
32	256.000	51.0000	0.					64	256.000	408.000	0.
								65	0.	-33.000	52.8333
								66	27.0000	-33.000	52.8333

67	131.000	-33.000	52.8333	157	0.	-33.000	158.500
68	151.000	-33.000	52.8333	158	27.0000	-33.000	158.500
69	203.500	-33.000	52.8333	159	131.000	-33.000	158.500
70	256.000	-33.000	52.8333	160	151.000	-33.000	158.500
71	0.	-16.500	52.8333	161	203.500	-33.000	158.500
72	256.000	-16.500	52.8333	162	256.000	-33.000	158.500
73	0.	0.	52.8333	163	0.	-16.500	158.500
74	256.000	0.	52.8333	164	256.000	-16.500	158.500
75	0.	25.5000	52.8333	165	0.	0.	158.500
76	256.000	25.5000	52.8333	166	256.000	0.	158.500
77	0.	51.0000	52.8333	167	0.	25.5000	158.500
78	256.000	51.0000	52.8333	168	256.000	25.5000	158.500
79	0.	76.5000	52.8333	169	0.	51.0000	158.500
80	256.000	76.5000	52.8333	170	256.000	51.0000	158.500
81	0.	102.000	52.8333	171	0.	76.5000	158.500
82	256.000	102.000	52.8333	172	256.000	76.5000	158.500
83	0.	127.500	52.8333	173	0.	102.000	158.500
84	256.000	127.500	52.8333	174	256.000	102.000	158.500
85	0.	153.000	52.8333	175	0.	127.500	158.500
86	256.000	153.000	52.8333	176	256.000	127.500	158.500
87	0.	178.500	52.8333	177	0.	153.000	158.500
88	256.000	178.500	52.8333	178	256.000	153.000	158.500
89	0.	204.000	52.8333	179	0.	178.500	158.500
90	256.000	204.000	52.8333	180	256.000	178.500	158.500
91	0.	229.500	52.8333	181	0.	204.000	158.500
92	256.000	229.500	52.8333	182	256.000	204.000	158.500
93	0.	255.000	52.8333	183	0.	229.500	158.500
94	256.000	255.000	52.8333	184	256.000	229.500	158.500
95	0.	280.500	52.8333	185	0.	255.000	158.500
96	256.000	280.500	52.8333	186	256.000	255.000	158.500
97	0.	306.000	52.8333	187	0.	280.500	158.500
98	256.000	306.000	52.8333	188	256.000	280.500	158.500
99	0.	331.500	52.8333	189	0.	306.000	158.500
100	256.000	331.500	52.8333	190	256.000	306.000	158.500
101	0.	357.000	52.8333	191	0.	331.500	158.500
102	49.0000	357.000	52.8333	192	256.000	331.500	158.500
103	101.000	357.000	52.8333	193	0.	357.000	158.500
104	256.000	357.000	52.8333	194	49.0000	357.000	158.500
105	101.000	382.500	52.8333	195	101.000	357.000	158.500
106	256.000	382.500	52.8333	196	256.000	357.000	158.500
107	101.000	408.000	52.8333	197	101.000	382.500	158.500
108	151.000	408.000	52.8333	198	256.000	382.500	158.500
109	203.500	408.000	52.8333	199	101.000	408.000	158.500
110	256.000	408.000	52.8333	200	256.000	408.000	158.500
111	0.	-33.000	105.667	201	49.0000	-33.000	211.333
112	27.0000	-33.000	105.667	202	101.000	-33.000	211.333
113	131.000	-33.000	105.667	203	0.	-33.000	211.333
114	151.000	-33.000	105.667	204	27.0000	-33.000	211.333
115	203.500	-33.000	105.667	205	131.000	-33.000	211.333
116	256.000	-33.000	105.667	206	151.000	-33.000	211.333
117	0.	-16.500	105.667	207	203.500	-33.000	211.333
118	256.000	-16.500	105.667	208	256.000	-33.000	211.333
119	0.	0.	105.667	209	0.	-16.500	211.333
120	256.000	0.	105.667	210	256.000	-16.500	211.333
121	0.	25.5000	105.667	211	0.	0.	211.333
122	256.000	25.5000	105.667	212	256.000	0.	211.333
123	0.	51.0000	105.667	213	0.	25.5000	211.333
124	256.000	51.0000	105.667	214	256.000	25.5000	211.333
125	0.	76.5000	105.667	215	0.	51.0000	211.333
126	256.000	76.5000	105.667	216	256.000	51.0000	211.333
127	0.	102.000	105.667	217	0.	76.5000	211.333
128	256.000	102.000	105.667	218	256.000	76.5000	211.333
129	0.	127.500	105.667	219	0.	102.000	211.333
130	256.000	127.500	105.667	220	256.000	102.000	211.333
131	0.	153.000	105.667	221	0.	127.500	211.333
132	256.000	153.000	105.667	222	256.000	127.500	211.333
133	0.	178.500	105.667	223	0.	153.000	211.333
134	256.000	178.500	105.667	224	256.000	153.000	211.333
135	0.	204.000	105.667	225	0.	178.500	211.333
136	256.000	204.000	105.667	226	256.000	178.500	211.333
137	0.	229.500	105.667	227	0.	204.000	211.333
138	256.000	229.500	105.667	228	256.000	204.000	211.333
139	0.	255.000	105.667	229	0.	229.500	211.333
140	256.000	255.000	105.667	230	256.000	229.500	211.333
141	0.	280.500	105.667	231	0.	255.000	211.333
142	256.000	280.500	105.667	232	256.000	255.000	211.333
143	0.	306.000	105.667	233	0.	280.500	211.333
144	256.000	306.000	105.667	234	256.000	280.500	211.333
145	0.	331.500	105.667	235	0.	306.000	211.333
146	256.000	331.500	105.667	236	256.000	306.000	211.333
147	0.	357.000	105.667	237	0.	331.500	211.333
148	49.0000	357.000	105.667	238	256.000	331.500	211.333
149	101.000	357.000	105.667	239	0.	357.000	211.333
150	256.000	357.000	105.667	240	49.0000	357.000	211.333
151	101.000	382.500	105.667	241	101.000	357.000	211.333
152	256.000	382.500	105.667	242	256.000	357.000	211.333
153	101.000	408.000	105.667	243	101.000	382.500	211.333
154	151.000	408.000	105.667	244	256.000	382.500	211.333
155	203.500	408.000	105.667	245	101.000	408.000	211.333
156	256.000	408.000	105.667	246	256.000	408.000	211.333

247	0.	-33.000	264.167	324	151.000	76.5000	317.000
248	151.000	-33.000	264.167	325	203.500	76.5000	317.000
249	203.500	-33.000	264.167	326	256.000	76.5000	317.000
250	256.000	-33.000	264.167	327	0.	102.000	317.000
251	0.	-16.500	264.167	328	49.0000	102.000	317.000
252	256.000	-16.500	264.167	329	101.000	102.000	317.000
253	0.	0.	264.167	330	151.000	102.000	317.000
254	256.000	0.	264.167	331	203.500	102.000	317.000
255	0.	25.5000	264.167	332	256.000	102.000	317.000
256	256.000	25.5000	264.167	333	0.	127.500	317.000
257	0.	51.0000	264.167	334	49.0000	127.500	317.000
258	256.000	51.0000	264.167	335	101.000	127.500	317.000
259	0.	76.5000	264.167	336	151.000	127.500	317.000
260	256.000	76.5000	264.167	337	203.500	127.500	317.000
261	0.	102.000	264.167	338	256.000	127.500	317.000
262	256.000	102.000	264.167	339	0.	153.000	317.000
263	0.	127.500	264.167	340	49.0000	153.000	317.000
264	256.000	127.500	264.167	341	101.000	153.000	317.000
265	0.	153.000	264.167	342	151.000	153.000	317.000
266	256.000	153.000	264.167	343	203.500	153.000	317.000
267	0.	178.500	264.167	344	256.000	153.000	317.000
268	256.000	178.500	264.167	345	0.	178.500	317.000
269	0.	204.000	264.167	346	49.0000	178.500	317.000
270	256.000	204.000	264.167	347	101.000	178.500	317.000
271	0.	229.500	264.167	348	151.000	178.500	317.000
272	256.000	229.500	264.167	349	203.500	178.500	317.000
273	0.	255.000	264.167	350	256.000	178.500	317.000
274	256.000	255.000	264.167	351	0.	204.000	317.000
275	0.	280.500	264.167	352	49.0000	204.000	317.000
276	256.000	280.500	264.167	353	101.000	204.000	317.000
277	0.	306.000	264.167	354	151.000	204.000	317.000
278	256.000	306.000	264.167	355	203.500	204.000	317.000
279	0.	331.500	264.167	356	256.000	204.000	317.000
280	256.000	331.500	264.167	357	0.	229.500	317.000
281	0.	357.000	264.167	358	49.0000	229.500	317.000
282	49.0000	357.000	264.167	359	101.000	229.500	317.000
283	101.000	357.000	264.167	360	151.000	229.500	317.000
284	256.000	357.000	264.167	361	203.500	229.500	317.000
285	101.000	382.500	264.167	362	256.000	229.500	317.000
286	256.000	382.500	264.167	363	0.	255.000	317.000
287	101.000	408.000	264.167	364	49.0000	255.000	317.000
288	151.000	408.000	264.167	365	101.000	255.000	317.000
289	203.500	408.000	264.167	366	151.000	255.000	317.000
290	256.000	408.000	264.167	367	203.500	255.000	317.000
291	0.	-33.000	317.000	368	256.000	255.000	317.000
292	49.0000	-33.000	317.000	369	0.	280.500	317.000
293	101.000	-33.000	317.000	370	49.0000	280.500	317.000
294	151.000	-33.000	317.000	371	101.000	280.500	317.000
295	203.500	-33.000	317.000	372	151.000	280.500	317.000
296	256.000	-33.000	317.000	373	203.500	280.500	317.000
297	0.	-16.500	317.000	374	256.000	280.500	317.000
298	49.0000	-16.500	317.000	375	0.	306.000	317.000
299	101.000	-16.500	317.000	376	49.0000	306.000	317.000
300	151.000	-16.500	317.000	377	101.000	306.000	317.000
301	203.500	-16.500	317.000	378	151.000	306.000	317.000
302	256.000	-16.500	317.000	379	203.500	306.000	317.000
303	0.	0.	317.000	380	256.000	306.000	317.000
304	49.0000	0.	317.000	381	0.	331.500	317.000
305	101.000	0.	317.000	382	49.0000	331.500	317.000
306	151.000	0.	317.000	383	101.000	331.500	317.000
307	203.500	0.	317.000	384	151.000	331.500	317.000
308	256.000	0.	317.000	385	203.500	331.500	317.000
309	0.	25.5000	317.000	386	256.000	331.500	317.000
310	49.0000	25.5000	317.000	387	0.	357.000	317.000
311	101.000	25.5000	317.000	388	49.0000	357.000	317.000
312	151.000	25.5000	317.000	389	101.000	357.000	317.000
313	203.500	25.5000	317.000	390	151.000	357.000	317.000
314	256.000	25.5000	317.000	391	203.500	357.000	317.000
315	0.	51.0000	317.000	392	256.000	357.000	317.000
316	49.0000	51.0000	317.000	393	101.000	382.500	317.000
317	101.000	51.0000	317.000	394	151.000	382.500	317.000
318	151.000	51.0000	317.000	395	203.500	382.500	317.000
319	203.500	51.0000	317.000	396	256.000	382.500	317.000
320	256.000	51.0000	317.000	397	101.000	408.000	317.000
321	0.	76.5000	317.000	398	151.000	408.000	317.000
322	49.0000	76.5000	317.000	399	203.500	408.000	317.000
323	101.000	76.5000	317.000	400	256.000	408.000	317.000

2.7 DESCRIZIONE BEAM

2.7.1 Configurazione elementi tipo BEAM

Al fine di consentire una più chiara interpretazione dei risultati di output dell'analisi, e quindi una maggiore possibilità di controllo dei medesimi, la modellazione è stata sviluppata in modo da assegnare a tutte le membrature sistemi di riferimento locale (in base al quale sono da leggere i

risultati in termini di sollecitazioni) disposti secondo orientamenti logici. In particolare si è posta cura nel far sì che per default:

- tutte le aste aventi orientamento globale prevalente secondo l'asse globale X o Y [TRAVI su X o su Y] siano caratterizzate da asse locale 1 diretto secondo l'asse geometrico del Beam e asse locale 3 in direzione dell'asse globale Z (piano di flessione verticale = piano 1-3)
- tutte le aste aventi orientamento globale prevalente secondo l'asse globale Z [PILASTRI] siano caratterizzate da asse locale 1 diretto secondo l'asse globale Z positivo e asse locale 3 in direzione dell'asse globale y positivo.

L'orientamento di default di cui sopra è associato automaticamente per valori di $n1$, $n2$ e Ang di cui sotto pari a 0.

Per modificare l'impostazione di default occorre specificare un valore diverso da zero per $n1$ e $n2$ e/o Ang .

In particolare, in base ai valori di $n1$ e $n2$, l'asse locale 2, (con $Ang = 0$) è così definito:

- $n1 = \text{"Asse +X"} e n2 = 0$:** l'asse ha la direzione dell'asse globale X
- $n1 = \text{"Asse +Y"} e n2 = 0$:** l'asse ha la direzione dell'asse globale Y
- $n1 = \text{"Asse +Z"} e n2 = 0$:** l'asse ha la direzione dell'asse globale Z
- $n1 = \text{"Asse -X"} e n2 = 0$:** l'asse ha la direzione dell'asse globale -X
- $n1 = \text{"Asse -Y"} e n2 = 0$:** l'asse ha la direzione dell'asse globale -Y
- $n1 = \text{"Asse -Z"} e n2 = 0$:** l'asse ha la direzione dell'asse globale -Z
- $n1 = \text{"Str7 Y"} e n2 = 0$:** gli assi sono definiti utilizzando la convenzione di default di Straus7 considerando l'asse Y di Straus coincidente con l'asse Z di CMP: se l'asse 1 (del Beam in CMP) ha direzione coincidente con l'asse globale X (di CMP) la direzione di 3 è sempre quella positiva dell'asse Z. In tutti gli altri casi la direzione dell'asse 3 ha è ottenuto dal prodotto vettoriale fra l'asse globale X e il vettore definito dai nodi di inizio e fine Beam.
- $n1 = \text{"Str7 X"} e n2 = 0$:** gli assi sono definiti utilizzando la convenzione di default di Straus7 considerando l'asse X di Straus coincidente con l'asse Z di CMP: se l'asse 1 (del Beam in CMP) ha direzione coincidente con l'asse globale Y (di CMP) la direzione di 3 è sempre quella positiva dell'asse X. In tutti gli altri casi la direzione dell'asse 3 ha è ottenuto dal prodotto vettoriale fra l'asse globale Y e il vettore definito dai nodi di inizio e fine Beam.
- $n1 = \text{"Str7 Z"} e n2 = 0$:** gli assi sono definiti utilizzando la convenzione di default di Straus7 considerando l'asse Z di Straus coincidente con l'asse Z di CMP: se l'asse 1 (del Beam in CMP) ha direzione coincidente con l'asse globale Z (di CMP) la direzione di 3 è sempre quella positiva dell'asse Y. In tutti gli altri casi la direzione dell'asse 3 ha è ottenuto dal prodotto vettoriale fra l'asse globale Z e il vettore definito dai nodi di inizio e fine Beam.
- $n1 = 0 e n2 \neq 0$:** in tal caso il valore assegnato a $n2$ è il numero di un nodo del modello. L'asse locale 3 è ottenuto dal prodotto vettoriale tra l'asse dell'asta e l'asse $NI-n2$ (NI = primo nodo di definizione Beam)
- $n1 \neq 0 e n2 \neq 0$:** l'asse ha la direzione della congiungente $n1$ e $n2$

Se $Ang \neq 0$ allora $n1$ e $n2$ definiscono l'asse di riferimento rispetto al quale l'asse 2 forma un angolo Ang .

La geometria e le altre caratteristiche degli elementi Beam costituenti il modello sono riportate nella seguente tabella con il seguente significato dei simboli:

Beam	= Numero dell'Elemento Beam
N1	= Numero Nodo Iniziale dell'Elemento Beam
N2	= Numero Nodo Finale dell'Elemento Beam

Sez. = Nome Sezione associata all'Elemento
n1 = primo nodo di individuazione asse locale di riferimento
n2 = secondo nodo di individuazione asse locale di riferimento
Ang. = angolo asse locale 2 rispetto asse locale di riferimento, positivo se antiorario
(rotazione attorno all'asse locale 1 sul piano definito dall'asse di riferimento e l'asse locale 3)
Fase No = indica il numero delle fasi in cui il Beam non esiste

Beam	N1	N2	Direzione asse 2 (n1 n2)	Ang (°)
1	1	19	Asse -X 0	180 Sez.: U [UPN 120]
2	2	20	Asse +X 0	-90 Sez.: U [UPN 120]
3	3	21	Asse +X 0	-90 Sez.: U [UPN 120]
4	4	22	Asse +X 0	-90 Sez.: U [UPN 120]
5	5	24	Asse +X 0	0 Sez.: U [UPN 120]
6	6	27	Asse -X 0	180 Sez.: U [UPN 120]
7	7	28	Asse +X 0	0 Sez.: U [UPN 120]
8	8	35	Asse -X 0	180 Sez.: U [UPN 120]
9	9	36	Asse +X 0	0 Sez.: U [UPN 120]
10	10	43	Asse -X 0	180 Sez.: U [UPN 120]
11	11	44	Asse +X 0	0 Sez.: U [UPN 120]
12	12	51	Asse -X 0	180 Sez.: U [UPN 120]
13	13	52	Asse +X 0	0 Sez.: U [UPN 120]
14	14	55	Asse -X 0	180 Sez.: U [UPN 120]
15	15	57	Asse -X 0	180 Sez.: U [UPN 120]
16	16	58	Asse +X 0	0 Sez.: U [UPN 120]
17	17	61	Asse +X 0	90 Sez.: U [UPN 120]
18	18	64	Asse +X 0	0 Sez.: U [UPN 120]
19	19	65	Asse -X 0	180 Sez.: U [UPN 120]
20	20	66	Asse +X 0	-90 Sez.: U [UPN 120]
21	21	67	Asse +X 0	-90 Sez.: U [UPN 120]
22	22	68	Asse +X 0	-90 Sez.: U [UPN 120]
23	24	70	Asse +X 0	0 Sez.: U [UPN 120]
24	27	73	Asse -X 0	180 Sez.: U [UPN 120]
25	28	74	Asse +X 0	0 Sez.: U [UPN 120]
26	35	81	Asse -X 0	180 Sez.: U [UPN 120]
27	36	82	Asse +X 0	0 Sez.: U [UPN 120]
28	43	89	Asse -X 0	180 Sez.: U [UPN 120]
29	44	90	Asse +X 0	0 Sez.: U [UPN 120]
30	51	97	Asse -X 0	180 Sez.: U [UPN 120]
31	52	98	Asse +X 0	0 Sez.: U [UPN 120]
32	55	101	Asse -X 0	180 Sez.: U [UPN 120]
33	57	103	Asse -X 0	180 Sez.: U [UPN 120]
34	58	104	Asse +X 0	0 Sez.: U [UPN 120]
35	61	107	Asse +X 0	90 Sez.: U [UPN 120]
36	64	110	Asse +X 0	0 Sez.: U [UPN 120]
37	65	111	Asse -X 0	180 Sez.: U [UPN 120]
38	66	112	Asse +X 0	-90 Sez.: U [UPN 120]
39	67	113	Asse +X 0	-90 Sez.: U [UPN 120]
40	68	114	Asse +X 0	-90 Sez.: U [UPN 120]
41	70	116	Asse +X 0	0 Sez.: U [UPN 120]
42	73	119	Asse -X 0	180 Sez.: U [UPN 120]
43	74	120	Asse +X 0	0 Sez.: U [UPN 120]
44	81	127	Asse -X 0	180 Sez.: U [UPN 120]
45	82	128	Asse +X 0	0 Sez.: U [UPN 120]
46	89	135	Asse -X 0	180 Sez.: U [UPN 120]
47	90	136	Asse +X 0	0 Sez.: U [UPN 120]
48	97	143	Asse -X 0	180 Sez.: U [UPN 120]
49	98	144	Asse +X 0	0 Sez.: U [UPN 120]
50	101	147	Asse -X 0	180 Sez.: U [UPN 120]
51	103	149	Asse -X 0	180 Sez.: U [UPN 120]
52	104	150	Asse +X 0	0 Sez.: U [UPN 120]
53	107	153	Asse +X 0	90 Sez.: U [UPN 120]
54	110	156	Asse +X 0	0 Sez.: U [UPN 120]
55	111	157	Asse -X 0	180 Sez.: U [UPN 120]
56	112	158	Asse +X 0	-90 Sez.: U [UPN 120]
57	113	159	Asse +X 0	-90 Sez.: U [UPN 120]
58	114	160	Asse +X 0	-90 Sez.: U [UPN 120]
59	116	162	Asse +X 0	0 Sez.: U [UPN 120]
60	119	165	Asse -X 0	180 Sez.: U [UPN 120]
61	120	166	Asse +X 0	0 Sez.: U [UPN 120]
62	127	173	Asse -X 0	180 Sez.: U [UPN 120]
63	128	174	Asse +X 0	0 Sez.: U [UPN 120]
64	135	181	Asse -X 0	180 Sez.: U [UPN 120]
65	136	182	Asse +X 0	0 Sez.: U [UPN 120]
66	143	189	Asse -X 0	180 Sez.: U [UPN 120]
67	144	190	Asse +X 0	0 Sez.: U [UPN 120]
68	147	193	Asse -X 0	180 Sez.: U [UPN 120]
69	149	195	Asse -X 0	180 Sez.: U [UPN 120]
70	150	196	Asse +X 0	0 Sez.: U [UPN 120]
71	153	199	Asse +X 0	90 Sez.: U [UPN 120]
72	156	200	Asse +X 0	0 Sez.: U [UPN 120]
73	157	203	Asse -X 0	180 Sez.: U [UPN 120]
74	158	204	Asse +X 0	-90 Sez.: U [UPN 120]
75	159	205	Asse +X 0	-90 Sez.: U [UPN 120]
76	160	206	Asse +X 0	-90 Sez.: U [UPN 120]

77	162	208	Asse +X 0	0 Sez.: U [UPN 120]
78	165	211	Asse -X 0	180 Sez.: U [UPN 120]
79	166	212	Asse +X 0	0 Sez.: U [UPN 120]
80	173	219	Asse -X 0	180 Sez.: U [UPN 120]
81	174	220	Asse +X 0	0 Sez.: U [UPN 120]
82	181	227	Asse -X 0	180 Sez.: U [UPN 120]
83	182	228	Asse +X 0	0 Sez.: U [UPN 120]
84	189	235	Asse -X 0	180 Sez.: U [UPN 120]
85	190	236	Asse +X 0	0 Sez.: U [UPN 120]
86	193	239	Asse -X 0	180 Sez.: U [UPN 120]
87	195	241	Asse -X 0	180 Sez.: U [UPN 120]
88	196	242	Asse +X 0	0 Sez.: U [UPN 120]
89	199	245	Asse +X 0	90 Sez.: U [UPN 120]
90	200	246	Asse +X 0	0 Sez.: U [UPN 120]
91	204	205	Asse +Y 0	90 Sez.: U [UPN 120]
92	203	247	Asse -X 0	180 Sez.: U [UPN 120]
93	206	248	Asse +X 0	-90 Sez.: U [UPN 120]
94	208	250	Asse +X 0	0 Sez.: U [UPN 120]
95	211	253	Asse -X 0	180 Sez.: U [UPN 120]
96	212	254	Asse +X 0	0 Sez.: U [UPN 120]
97	219	261	Asse -X 0	180 Sez.: U [UPN 120]
98	220	262	Asse +X 0	0 Sez.: U [UPN 120]
99	227	269	Asse -X 0	180 Sez.: U [UPN 120]
100	228	270	Asse +X 0	0 Sez.: U [UPN 120]
101	235	277	Asse -X 0	180 Sez.: U [UPN 120]
102	236	278	Asse +X 0	0 Sez.: U [UPN 120]
103	239	281	Asse -X 0	180 Sez.: U [UPN 120]
104	241	283	Asse -X 0	180 Sez.: U [UPN 120]
105	242	284	Asse +X 0	0 Sez.: U [UPN 120]
106	245	287	Asse +X 0	90 Sez.: U [UPN 120]
107	246	290	Asse +X 0	0 Sez.: U [UPN 120]
108	247	291	Asse -X 0	180 Sez.: U [UPN 120]
109	248	294	Asse +X 0	-90 Sez.: U [UPN 120]
110	250	296	Asse +X 0	0 Sez.: U [UPN 120]
111	253	303	Asse -X 0	180 Sez.: U [UPN 120]
112	254	308	Asse +X 0	0 Sez.: U [UPN 120]
113	261	327	Asse -X 0	180 Sez.: U [UPN 120]
114	262	332	Asse +X 0	0 Sez.: U [UPN 120]
115	269	351	Asse -X 0	180 Sez.: U [UPN 120]
116	270	356	Asse +X 0	0 Sez.: U [UPN 120]
117	277	375	Asse -X 0	180 Sez.: U [UPN 120]
118	278	380	Asse +X 0	0 Sez.: U [UPN 120]
119	281	387	Asse -X 0	180 Sez.: U [UPN 120]
120	283	389	Asse -X 0	180 Sez.: U [UPN 120]
121	284	392	Asse +X 0	0 Sez.: U [UPN 120]
122	287	397	Asse +X 0	90 Sez.: U [UPN 120]
123	290	400	Asse +X 0	0 Sez.: U [UPN 120]
124	291	292	Asse +Y 0	90 Sez.: U [UPN 120]
125	292	293	Asse +Y 0	90 Sez.: U [UPN 120]
126	293	294	Asse +Y 0	90 Sez.: U [UPN 120]
127	294	296	Asse +Y 0	90 Sez.: U [UPN 120]
128	299	293	Asse -X 0	90 Sez.: U [UPN 120]
129	300	294	Asse -X 0	90 Sez.: U [UPN 120]
130	305	299	Asse -X 0	90 Sez.: U [UPN 120]
131	306	300	Asse -X 0	90 Sez.: U [UPN 120]
132	303	304	Asse +Y 0	90 Sez.: U [UPN 120]
133	304	305	Asse +Y 0	90 Sez.: U [UPN 120]
134	305	306	Asse +Y 0	90 Sez.: U [UPN 120]
135	306	308	Asse +Y 0	90 Sez.: U [UPN 120]
136	311	305	Asse -X 0	90 Sez.: U [UPN 120]
137	312	306	Asse -X 0	90 Sez.: U [UPN 120]
138	317	311	Asse -X 0	90 Sez.: U [UPN 120]
139	318	312	Asse -X 0	90 Sez.: U [UPN 120]
140	323	317	Asse -X 0	90 Sez.: U [UPN 120]
141	324	318	Asse -X 0	90 Sez.: U [UPN 120]
142	329	323	Asse -X 0	90 Sez.: U [UPN 120]
143	330	324	Asse -X 0	90 Sez.: U [UPN 120]
144	327	328	Asse +Y 0	90 Sez.: U [UPN 120]
145	328	329	Asse +Y 0	90 Sez.: U [UPN 120]
146	329	330	Asse +Y 0	90 Sez.: U [UPN 120]
147	330	332	Asse +Y 0	90 Sez.: U [UPN 120]
148	335	329	Asse -X 0	90 Sez.: U [UPN 120]
149	336	330	Asse -X 0	90 Sez.: U [UPN 120]
150	341	335	Asse -X 0	90 Sez.: U [UPN 120]
151	342	336	Asse -X 0	90 Sez.: U [UPN 120]
152	347	341	Asse -X 0	90 Sez.: U [UPN 120]
153	348	342	Asse -X 0	90 Sez.: U [UPN 120]
154	353	347	Asse -X 0	90 Sez.: U [UPN 120]
155	354	348	Asse -X 0	90 Sez.: U [UPN 120]
156	351	352	Asse +Y 0	90 Sez.: U [UPN 120]
157	352	353	Asse +Y 0	90 Sez.: U [UPN 120]
158	353	354	Asse +Y 0	90 Sez.: U [UPN 120]
159	354	356	Asse +Y 0	90 Sez.: U [UPN 120]
160	359	353	Asse -X 0	90 Sez.: U [UPN 120]
161	360	354	Asse -X 0	90 Sez.: U [UPN 120]
162	365	359	Asse -X 0	90 Sez.: U [UPN 120]
163	366	360	Asse -X 0	90 Sez.: U [UPN 120]
164	371	365	Asse -X 0	90 Sez.: U [UPN 120]
165	372	366	Asse -X 0	90 Sez.: U [UPN 120]
166	377	371	Asse -X 0	90 Sez.: U [UPN 120]

167	378	372	Asse -X 0	90 Sez.: U [UPN 120]
168	375	376	Asse +Y 0	90 Sez.: U [UPN 120]
169	376	377	Asse +Y 0	90 Sez.: U [UPN 120]
170	377	378	Asse +Y 0	90 Sez.: U [UPN 120]
171	378	380	Asse +Y 0	90 Sez.: U [UPN 120]
172	383	377	Asse -X 0	90 Sez.: U [UPN 120]
173	384	378	Asse -X 0	90 Sez.: U [UPN 120]
174	389	383	Asse -X 0	90 Sez.: U [UPN 120]
175	390	384	Asse -X 0	90 Sez.: U [UPN 120]
176	387	388	Asse +Y 0	90 Sez.: U [UPN 120]
177	388	389	Asse +Y 0	90 Sez.: U [UPN 120]
178	389	390	Asse +Y 0	90 Sez.: U [UPN 120]
179	390	392	Asse +Y 0	90 Sez.: U [UPN 120]
180	393	389	Asse -X 0	90 Sez.: U [UPN 120]
181	394	390	Asse -X 0	90 Sez.: U [UPN 120]
182	397	393	Asse -X 0	90 Sez.: U [UPN 120]
183	398	394	Asse -X 0	90 Sez.: U [UPN 120]
184	397	398	Asse +Y 0	90 Sez.: U [UPN 120]
185	398	400	Asse +Y 0	90 Sez.: U [UPN 120]

2.8 DESCRIZIONE ELEMENTI TIPO SHELL

2.8.1 Configurazione elementi tipo shell

La geometria e le altre caratteristiche degli elementi shell costituenti il modello sono riportate nella seguente tabella con il seguente significato dei simboli:

Shell	= Numero dell'Elemento Shell
Tipo	= Tipo di elemento:
	M.Std: Membranale standard
	S.Std: Shell standard
	S.+Rot: Shell formulato con la rotazione ai nodi
	S.+Rot+Bub: Shell formulato con la rotazione ai nodi e bubble function
N1	= Numero Nodo 1 dell'Elemento
N2	= Numero Nodo 2 dell'Elemento
N3	= Numero Nodo 3 dell'Elemento
N4	= Numero Nodo 4 dell'Elemento
mat	= Nome del materiale di cui è costituito l'elemento
Sm	= Spessore per comportamento membranale
Sf	= Spessore per comportamento flessionale (= Sm se non definito)
Kw	= K di Winkler in direzione dell'asse locale 2
Mpk	= Moltiplicatore del K di Winkler
Fase	= Fase di appartenenza
Fase No	= Fase di inesistenza dello shell

Shell	Tipo	N1	N2	N3	N4	Materiale	Sm (cm)	Sf (cm)	Fase
1	S.Std+Drill	19	20	66	65	S 275	1		
2	S.Std+Drill	21	22	68	67	S 275	1		
3	S.Std+Drill	23	22	68	69	S 275	1		
4	S.Std+Drill	24	23	69	70	S 275	1		
5	S.Std+Drill	19	25	71	65	S 275	1		
6	S.Std+Drill	24	26	72	70	S 275	1		
7	S.Std+Drill	25	27	73	71	S 275	1		
8	S.Std+Drill	26	28	74	72	S 275	1		
9	S.Std+Drill	27	29	75	73	S 275	1		
10	S.Std+Drill	28	30	76	74	S 275	1		
11	S.Std+Drill	29	31	77	75	S 275	1		
12	S.Std+Drill	30	32	78	76	S 275	1		
13	S.Std+Drill	31	33	79	77	S 275	1		
14	S.Std+Drill	32	34	80	78	S 275	1		
15	S.Std+Drill	33	35	81	79	S 275	1		
16	S.Std+Drill	34	36	82	80	S 275	1		
17	S.Std+Drill	35	37	83	81	S 275	1		
18	S.Std+Drill	36	38	84	82	S 275	1		
19	S.Std+Drill	37	39	85	83	S 275	1		
20	S.Std+Drill	38	40	86	84	S 275	1		
21	S.Std+Drill	39	41	87	85	S 275	1		
22	S.Std+Drill	40	42	88	86	S 275	1		
23	S.Std+Drill	41	43	89	87	S 275	1		
24	S.Std+Drill	42	44	90	88	S 275	1		
25	S.Std+Drill	43	45	91	89	S 275	1		
26	S.Std+Drill	44	46	92	90	S 275	1		
27	S.Std+Drill	45	47	93	91	S 275	1		
28	S.Std+Drill	46	48	94	92	S 275	1		
29	S.Std+Drill	47	49	95	93	S 275	1		
30	S.Std+Drill	48	50	96	94	S 275	1		
31	S.Std+Drill	49	51	97	95	S 275	1		
32	S.Std+Drill	50	52	98	96	S 275	1		
33	S.Std+Drill	51	53	99	97	S 275	1		
34	S.Std+Drill	52	54	100	98	S 275	1		
35	S.Std+Drill	53	55	101	99	S 275	1		
36	S.Std+Drill	54	58	104	100	S 275	1		
37	S.Std+Drill	56	55	101	102	S 275	1		
38	S.Std+Drill	57	56	102	103	S 275	1		
39	S.Std+Drill	59	57	103	105	S 275	1		
40	S.Std+Drill	58	60	106	104	S 275	1		
41	S.Std+Drill	61	59	105	107	S 275	1		
42	S.Std+Drill	60	64	110	106	S 275	1		
43	S.Std+Drill	62	61	107	108	S 275	1		
44	S.Std+Drill	63	62	108	109	S 275	1		
45	S.Std+Drill	64	63	109	110	S 275	1		
46	S.Std+Drill	65	66	112	111	S 275	1		
47	S.Std+Drill	67	68	114	113	S 275	1		
48	S.Std+Drill	69	68	114	115	S 275	1		
49	S.Std+Drill	70	69	115	116	S 275	1		
50	S.Std+Drill	65	71	117	111	S 275	1		
51	S.Std+Drill	70	72	118	116	S 275	1		
52	S.Std+Drill	71	73	119	117	S 275	1		
53	S.Std+Drill	72	74	120	118	S 275	1		

54	S.Std+Drill	73	75	121	119	S 275	1	144	S.Std+Drill	168	170	216	214	S 275	1
55	S.Std+Drill	74	76	122	120	S 275	1	145	S.Std+Drill	169	171	217	215	S 275	1
56	S.Std+Drill	75	77	123	121	S 275	1	146	S.Std+Drill	170	172	218	216	S 275	1
57	S.Std+Drill	76	78	124	122	S 275	1	147	S.Std+Drill	171	173	219	217	S 275	1
58	S.Std+Drill	77	79	125	123	S 275	1	148	S.Std+Drill	172	174	220	218	S 275	1
59	S.Std+Drill	78	80	126	124	S 275	1	149	S.Std+Drill	173	175	221	219	S 275	1
60	S.Std+Drill	79	81	127	125	S 275	1	150	S.Std+Drill	174	176	222	220	S 275	1
61	S.Std+Drill	80	82	128	126	S 275	1	151	S.Std+Drill	175	177	223	221	S 275	1
62	S.Std+Drill	81	83	129	127	S 275	1	152	S.Std+Drill	176	178	224	222	S 275	1
63	S.Std+Drill	82	84	130	128	S 275	1	153	S.Std+Drill	177	179	225	223	S 275	1
64	S.Std+Drill	83	85	131	129	S 275	1	154	S.Std+Drill	178	180	226	224	S 275	1
65	S.Std+Drill	84	86	132	130	S 275	1	155	S.Std+Drill	179	181	227	225	S 275	1
66	S.Std+Drill	85	87	133	131	S 275	1	156	S.Std+Drill	180	182	228	226	S 275	1
67	S.Std+Drill	86	88	134	132	S 275	1	157	S.Std+Drill	181	183	229	227	S 275	1
68	S.Std+Drill	87	89	135	133	S 275	1	158	S.Std+Drill	182	184	230	228	S 275	1
69	S.Std+Drill	88	90	136	134	S 275	1	159	S.Std+Drill	183	185	231	229	S 275	1
70	S.Std+Drill	89	91	137	135	S 275	1	160	S.Std+Drill	184	186	232	230	S 275	1
71	S.Std+Drill	90	92	138	136	S 275	1	161	S.Std+Drill	185	187	233	231	S 275	1
72	S.Std+Drill	91	93	139	137	S 275	1	162	S.Std+Drill	186	188	234	232	S 275	1
73	S.Std+Drill	92	94	140	138	S 275	1	163	S.Std+Drill	187	189	235	233	S 275	1
74	S.Std+Drill	93	95	141	139	S 275	1	164	S.Std+Drill	188	190	236	234	S 275	1
75	S.Std+Drill	94	96	142	140	S 275	1	165	S.Std+Drill	189	191	237	235	S 275	1
76	S.Std+Drill	95	97	143	141	S 275	1	166	S.Std+Drill	190	192	238	236	S 275	1
77	S.Std+Drill	96	98	144	142	S 275	1	167	S.Std+Drill	191	193	239	237	S 275	1
78	S.Std+Drill	97	99	145	143	S 275	1	168	S.Std+Drill	192	196	242	238	S 275	1
79	S.Std+Drill	98	100	146	144	S 275	1	169	S.Std+Drill	194	193	239	240	S 275	1
80	S.Std+Drill	99	101	147	145	S 275	1	170	S.Std+Drill	195	194	240	241	S 275	1
81	S.Std+Drill	100	104	150	146	S 275	1	171	S.Std+Drill	197	195	241	243	S 275	1
82	S.Std+Drill	102	101	147	148	S 275	1	172	S.Std+Drill	196	198	244	242	S 275	1
83	S.Std+Drill	103	102	148	149	S 275	1	173	S.Std+Drill	199	197	243	245	S 275	1
84	S.Std+Drill	105	103	149	151	S 275	1	174	S.Std+Drill	198	200	246	244	S 275	1
85	S.Std+Drill	104	106	152	150	S 275	1	175	S.Std+Drill	205	293	202	202	S 275	1
86	S.Std+Drill	107	105	151	153	S 275	1	176	S.Std+Drill	203	204	247	247	S 275	1
87	S.Std+Drill	106	110	156	152	S 275	1	177	S.Std+Drill	205	206	248	248	S 275	1
88	S.Std+Drill	108	107	153	154	S 275	1	178	S.Std+Drill	207	206	248	249	S 275	1
89	S.Std+Drill	109	108	154	155	S 275	1	179	S.Std+Drill	208	207	249	250	S 275	1
90	S.Std+Drill	110	109	155	156	S 275	1	180	S.Std+Drill	203	209	251	247	S 275	1
91	S.Std+Drill	111	112	158	157	S 275	1	181	S.Std+Drill	208	210	252	250	S 275	1
92	S.Std+Drill	113	114	160	159	S 275	1	182	S.Std+Drill	209	211	253	251	S 275	1
93	S.Std+Drill	115	114	160	161	S 275	1	183	S.Std+Drill	210	212	254	252	S 275	1
94	S.Std+Drill	116	115	161	162	S 275	1	184	S.Std+Drill	211	213	255	253	S 275	1
95	S.Std+Drill	111	117	163	157	S 275	1	185	S.Std+Drill	212	214	256	254	S 275	1
96	S.Std+Drill	116	118	164	162	S 275	1	186	S.Std+Drill	213	215	257	255	S 275	1
97	S.Std+Drill	117	119	165	163	S 275	1	187	S.Std+Drill	214	216	258	256	S 275	1
98	S.Std+Drill	118	120	166	164	S 275	1	188	S.Std+Drill	215	217	259	257	S 275	1
99	S.Std+Drill	119	121	167	165	S 275	1	189	S.Std+Drill	216	218	260	258	S 275	1
100	S.Std+Drill	120	122	168	166	S 275	1	190	S.Std+Drill	217	219	261	259	S 275	1
101	S.Std+Drill	121	123	169	167	S 275	1	191	S.Std+Drill	218	220	262	260	S 275	1
102	S.Std+Drill	122	124	170	168	S 275	1	192	S.Std+Drill	219	221	263	261	S 275	1
103	S.Std+Drill	123	125	171	169	S 275	1	193	S.Std+Drill	220	222	264	262	S 275	1
104	S.Std+Drill	124	126	172	170	S 275	1	194	S.Std+Drill	221	223	265	263	S 275	1
105	S.Std+Drill	125	127	173	171	S 275	1	195	S.Std+Drill	222	224	266	264	S 275	1
106	S.Std+Drill	126	128	174	172	S 275	1	196	S.Std+Drill	223	225	267	265	S 275	1
107	S.Std+Drill	127	129	175	173	S 275	1	197	S.Std+Drill	224	226	268	266	S 275	1
108	S.Std+Drill	128	130	176	174	S 275	1	198	S.Std+Drill	225	227	269	267	S 275	1
109	S.Std+Drill	129	131	177	175	S 275	1	199	S.Std+Drill	226	228	270	268	S 275	1
110	S.Std+Drill	130	132	178	176	S 275	1	200	S.Std+Drill	227	229	271	269	S 275	1
111	S.Std+Drill	131	133	179	177	S 275	1	201	S.Std+Drill	228	230	272	270	S 275	1
112	S.Std+Drill	132	134	180	178	S 275	1	202	S.Std+Drill	229	231	273	271	S 275	1
113	S.Std+Drill	133	135	181	179	S 275	1	203	S.Std+Drill	230	232	274	272	S 275	1
114	S.Std+Drill	134	136	182	180	S 275	1	204	S.Std+Drill	231	233	275	273	S 275	1
115	S.Std+Drill	135	137	183	181	S 275	1	205	S.Std+Drill	232	234	276	274	S 275	1
116	S.Std+Drill	136	138	184	182	S 275	1	206	S.Std+Drill	233	235	277	275	S 275	1
117	S.Std+Drill	137	139	185	183	S 275	1	207	S.Std+Drill	234	236	278	276	S 275	1
118	S.Std+Drill	138	140	186	184	S 275	1	208	S.Std+Drill	235	237	279	277	S 275	1
119	S.Std+Drill	139	141	187	185	S 275	1	209	S.Std+Drill	236	238	280	278	S 275	1
120	S.Std+Drill	140	142	188	186	S 275	1	210	S.Std+Drill	237	239	281	279	S 275	1
121	S.Std+Drill	141	143	189	187	S 275	1	211	S.Std+Drill	238	242	284	280	S 275	1
122	S.Std+Drill	142	144	190	188	S 275	1	212	S.Std+Drill	240	239	281	282	S 275	1
123	S.Std+Drill	143	145	191	189	S 275	1	213	S.Std+Drill	241	240	282	283	S 275	1
124	S.Std+Drill	144	146	192	190	S 275	1	214	S.Std+Drill	243	241	283	285	S 275	1
125	S.Std+Drill	145	147	193	191	S 275	1	215	S.Std+Drill	242	244	286	284	S 275	1
126	S.Std+Drill	146	150	196	192	S 275	1	216	S.Std+Drill	245	243	285	287	S 275	1
127	S.Std+Drill	148	147	193	194	S 275	1	217	S.Std+Drill	244	246	290	286	S 275	1
128	S.Std+Drill	149	148	194	195	S 275	1	218	S.Std+Drill	201	202	293	292	S 275	1
129	S.Std+Drill	151	149	195	197	S 275	1	219	S.Std+Drill	204	201	292	292	S 275	1
130	S.Std+Drill	150	152	198	196	S 275	1	220	S.Std+Drill	204	292	291	247	S 275	1
131	S.Std+Drill	153	151	197	199	S 275	1	221	S.Std+Drill	205	248	294	293	S 275	1
132	S.Std+Drill	152	156	200	198	S 275	1	222	S.Std+Drill	249	248	294	295	S 275	1
133	S.Std+Drill	157	158	204	203	S 275	1	223	S.Std+Drill	250	249	295	296	S 275	1
134	S.Std+Drill	159	160	206	205	S 275	1	224	S.Std+Drill	247	251	297	291	S 275	1
135	S.Std+Drill	161	160	206	207	S 275	1	225	S.Std+Drill	250	252	302	296	S 275	1
136	S.Std+Drill	162	161	207	208	S 275	1	226	S.Std+Drill	251	253	303	297	S 275	1
137	S.Std+Drill	157	163	209	203	S 275	1	227	S.Std+Drill	252	254	308	302	S 275	1
138	S.Std+Drill	162	164	210	208	S 275	1	228	S.Std+Drill	253	255	309	303	S 275	1
139	S.Std+Drill	163	165	211	209	S 275	1	229	S.Std+Drill	254	256	314	308	S 275	1
140	S.Std+Drill	164	166	212	210	S 275	1	230	S.Std+Drill	255	257	315	309	S 275	1
141	S.Std+Drill	165	167	213	211	S 275	1	231	S.Std+Drill	256	258	320	314	S 275	1
142	S.Std+Drill	166	168	214	212	S 275	1	232	S.Std+Drill	257	259	321	315	S 275	1
143	S.Std+Drill	167	169	215	213	S 275	1	233	S.Std+Drill	258	260	326	320	S 275	1

234	S.Std+Drill	259	261	327	321	S 275	1	293	S.Std+Drill	324	325	331	330	S 275	1
235	S.Std+Drill	260	262	332	326	S 275	1	294	S.Std+Drill	325	326	332	331	S 275	1
236	S.Std+Drill	261	263	333	327	S 275	1	295	S.Std+Drill	327	328	334	333	S 275	1
237	S.Std+Drill	262	264	338	332	S 275	1	296	S.Std+Drill	328	329	335	334	S 275	1
238	S.Std+Drill	263	265	339	333	S 275	1	297	S.Std+Drill	329	330	336	335	S 275	1
239	S.Std+Drill	264	266	344	338	S 275	1	298	S.Std+Drill	330	331	337	336	S 275	1
240	S.Std+Drill	265	267	345	339	S 275	1	299	S.Std+Drill	331	332	338	337	S 275	1
241	S.Std+Drill	266	268	350	344	S 275	1	300	S.Std+Drill	333	334	340	339	S 275	1
242	S.Std+Drill	267	269	351	345	S 275	1	301	S.Std+Drill	334	335	341	340	S 275	1
243	S.Std+Drill	268	270	356	350	S 275	1	302	S.Std+Drill	335	336	342	341	S 275	1
244	S.Std+Drill	269	271	357	351	S 275	1	303	S.Std+Drill	336	337	343	342	S 275	1
245	S.Std+Drill	270	272	362	356	S 275	1	304	S.Std+Drill	337	338	344	343	S 275	1
246	S.Std+Drill	271	273	363	357	S 275	1	305	S.Std+Drill	339	340	346	345	S 275	1
247	S.Std+Drill	272	274	368	362	S 275	1	306	S.Std+Drill	340	341	347	346	S 275	1
248	S.Std+Drill	273	275	369	363	S 275	1	307	S.Std+Drill	341	342	348	347	S 275	1
249	S.Std+Drill	274	276	374	368	S 275	1	308	S.Std+Drill	342	343	349	348	S 275	1
250	S.Std+Drill	275	277	375	369	S 275	1	309	S.Std+Drill	343	344	350	349	S 275	1
251	S.Std+Drill	276	278	380	374	S 275	1	310	S.Std+Drill	345	346	352	351	S 275	1
252	S.Std+Drill	277	279	381	375	S 275	1	311	S.Std+Drill	346	347	353	352	S 275	1
253	S.Std+Drill	278	280	386	380	S 275	1	312	S.Std+Drill	347	348	354	353	S 275	1
254	S.Std+Drill	279	281	387	381	S 275	1	313	S.Std+Drill	348	349	355	354	S 275	1
255	S.Std+Drill	280	284	392	386	S 275	1	314	S.Std+Drill	349	350	356	355	S 275	1
256	S.Std+Drill	282	281	387	388	S 275	1	315	S.Std+Drill	351	352	358	357	S 275	1
257	S.Std+Drill	283	282	388	389	S 275	1	316	S.Std+Drill	352	353	359	358	S 275	1
258	S.Std+Drill	285	283	389	393	S 275	1	317	S.Std+Drill	353	354	360	359	S 275	1
259	S.Std+Drill	284	286	396	392	S 275	1	318	S.Std+Drill	354	355	361	360	S 275	1
260	S.Std+Drill	287	285	393	397	S 275	1	319	S.Std+Drill	355	356	362	361	S 275	1
261	S.Std+Drill	286	290	400	396	S 275	1	320	S.Std+Drill	357	358	364	363	S 275	1
262	S.Std+Drill	288	287	397	398	S 275	1	321	S.Std+Drill	358	359	365	364	S 275	1
263	S.Std+Drill	289	288	398	399	S 275	1	322	S.Std+Drill	359	360	366	365	S 275	1
264	S.Std+Drill	290	289	399	400	S 275	1	323	S.Std+Drill	360	361	367	366	S 275	1
265	S.Std+Drill	291	292	298	297	S 275	1	324	S.Std+Drill	361	362	368	367	S 275	1
266	S.Std+Drill	292	293	299	298	S 275	1	325	S.Std+Drill	363	364	370	369	S 275	1
267	S.Std+Drill	293	294	300	299	S 275	1	326	S.Std+Drill	364	365	371	370	S 275	1
268	S.Std+Drill	294	295	301	300	S 275	1	327	S.Std+Drill	365	366	372	371	S 275	1
269	S.Std+Drill	295	296	302	301	S 275	1	328	S.Std+Drill	366	367	373	372	S 275	1
270	S.Std+Drill	297	298	304	303	S 275	1	329	S.Std+Drill	367	368	374	373	S 275	1
271	S.Std+Drill	298	299	305	304	S 275	1	330	S.Std+Drill	369	370	376	375	S 275	1
272	S.Std+Drill	299	300	306	305	S 275	1	331	S.Std+Drill	370	371	377	376	S 275	1
273	S.Std+Drill	300	301	307	306	S 275	1	332	S.Std+Drill	371	372	378	377	S 275	1
274	S.Std+Drill	301	302	308	307	S 275	1	333	S.Std+Drill	372	373	379	378	S 275	1
275	S.Std+Drill	303	304	310	309	S 275	1	334	S.Std+Drill	373	374	380	379	S 275	1
276	S.Std+Drill	304	305	311	310	S 275	1	335	S.Std+Drill	375	376	382	381	S 275	1
277	S.Std+Drill	305	306	312	311	S 275	1	336	S.Std+Drill	376	377	383	382	S 275	1
278	S.Std+Drill	306	307	313	312	S 275	1	337	S.Std+Drill	377	378	384	383	S 275	1
279	S.Std+Drill	307	308	314	313	S 275	1	338	S.Std+Drill	378	379	385	384	S 275	1
280	S.Std+Drill	309	310	316	315	S 275	1	339	S.Std+Drill	379	380	386	385	S 275	1
281	S.Std+Drill	310	311	317	316	S 275	1	340	S.Std+Drill	381	382	388	387	S 275	1
282	S.Std+Drill	311	312	318	317	S 275	1	341	S.Std+Drill	382	383	389	388	S 275	1
283	S.Std+Drill	312	313	319	318	S 275	1	342	S.Std+Drill	383	384	390	389	S 275	1
284	S.Std+Drill	313	314	320	319	S 275	1	343	S.Std+Drill	384	385	391	390	S 275	1
285	S.Std+Drill	315	316	322	321	S 275	1	344	S.Std+Drill	385	386	392	391	S 275	1
286	S.Std+Drill	316	317	323	322	S 275	1	345	S.Std+Drill	389	390	394	393	S 275	1
287	S.Std+Drill	317	318	324	323	S 275	1	346	S.Std+Drill	390	391	395	394	S 275	1
288	S.Std+Drill	318	319	325	324	S 275	1	347	S.Std+Drill	391	392	396	395	S 275	1
289	S.Std+Drill	319	320	326	325	S 275	1	348	S.Std+Drill	393	394	398	397	S 275	1
290	S.Std+Drill	321	322	328	327	S 275	1	349	S.Std+Drill	394	395	399	398	S 275	1
291	S.Std+Drill	322	323	329	328	S 275	1	350	S.Std+Drill	395	396	400	399	S 275	1
292	S.Std+Drill	323	324	330	329	S 275	1								

2.9 RISULTANTE DEI CARICHI APPLICATI

Vengono di seguito indicate le risultanti dei carichi applicati nelle CdC elementari statiche:

CdC = Condizione di Carico Elementare

Descrizione = Descrizione tipologia CdC

Fx, Fy, Fz = forza risultante dai carichi applicati e dai pesi propri della CdC

Mx, My, Mz = momento calcolato rispetto all'origine e risultante dai carichi applicati e dai pesi propri della CdC

Fase = viene indicato (se presente) la fase a cui la CdC appartiene

CdC	Descrizione	Fx (kN)	Fy (kN)	Fz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)	Fase
1	CdC n. 1	2.3666e-32	-1.578e-32	-69.344956	-127.45374	91.8281788	-7.539e-32	
2	CdC n. 2	0.	0.	-5.3872500	-9.5988713	7.09528125	0.	

2.10 PESO PROPRIO NODI

2.10.1 Masse nodali calcolate in automatico per analisi dinamica

Descrive i valori della masse calcolate in automatico in funzione dei carichi assegnati (e relativi coefficienti di partecipazione) al fine dell'analisi dinamica

Descrizione dei parametri:

Nodo = Numero del Nodo a cui è applicata la massa puntuale

Massa = Valore della massa calcolata

Molt. = Moltiplicatore applicato alla massa

Nodo	Massa (Ns ² /cm)	Molt			
1	0.0136	1	13	0.0136	1
1	0.0136	1	13	0.0136	1
1	0.0136	1	13	0.0136	1
1	0.0136	1	13	0.0136	1
1	0.0136	1	14	0.0136	1
1	0.0136	1	14	0.0136	1
2	0.0136	1	14	0.0136	1
2	0.0136	1	14	0.0136	1
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190	0.248388	1	206	0.290586	1
190	0.248388	1	206	0.290586	1
191	0.176535	1	206	0.290586	1
191	0.176535	1	207	0.363454	1
191	0.176535	1	207	0.363454	1
191	0.176535	1	207	0.363454	1
191	0.176535	1	207	0.363454	1
192	0.176535	1	207	0.363454	1
192	0.176535	1	208	0.310694	1
192	0.176535	1	208	0.310694	1
192	0.176535	1	208	0.310694	1
192	0.176535	1	208	0.310694	1
192	0.176535	1	208	0.310694	1
193	0.329733	1	208	0.310694	1
193	0.329733	1	209	0.114228	1
193	0.329733	1	209	0.114228	1
193	0.329733	1	209	0.114228	1
193	0.329733	1	209	0.114228	1
194	0.349608	1	209	0.114228	1
194	0.349608	1	210	0.114228	1
194	0.349608	1	210	0.114228	1
194	0.349608	1	210	0.114228	1
194	0.349608	1	210	0.114228	1
195	0.340117	1	210	0.114228	1
195	0.340117	1	211	0.217235	1
195	0.340117	1	211	0.217235	1
195	0.340117	1	211	0.217235	1
195	0.340117	1	211	0.217235	1
195	0.340117	1	211	0.217235	1
196	0.248388	1	211	0.217235	1
196	0.248388	1	212	0.217235	1
196	0.248388	1	212	0.217235	1
196	0.248388	1	212	0.217235	1
196	0.248388	1	212	0.217235	1
197	0.176535	1	212	0.217235	1
197	0.176535	1	213	0.176535	1
197	0.176535	1	213	0.176535	1
197	0.176535	1	213	0.176535	1
197	0.176535	1	213	0.176535	1
198	0.176535	1	213	0.176535	1
198	0.176535	1	214	0.176535	1
198	0.176535	1	214	0.176535	1
198	0.176535	1	214	0.176535	1
198	0.176535	1	214	0.176535	1
199	0.160121	1	214	0.176535	1

[illegible]

[illegible]

278	0.248388	1	294	0.356964	1.17784
278	0.248388	1	294	0.356964	0.822157
278	0.248388	1	294	0.356964	1.16995
278	0.248388	1	294	0.356964	0.830053
279	0.176535	1	294	0.356964	1
279	0.176535	1	295	0.238481	1.17784
279	0.176535	1	295	0.238481	0.822157
279	0.176535	1	295	0.238481	1.16995
279	0.176535	1	295	0.238481	0.830053
280	0.176535	1	295	0.238481	1
280	0.176535	1	296	0.255124	1.17784
280	0.176535	1	296	0.255124	0.822157
280	0.176535	1	296	0.255124	1.16995
280	0.176535	1	296	0.255124	0.830053
281	0.329733	1	296	0.255124	1
281	0.329733	1	297	0.110085	1.17784
281	0.329733	1	297	0.110085	0.822157
281	0.329733	1	297	0.110085	0.814689
281	0.329733	1	297	0.110085	1.18531
282	0.349608	1	297	0.110085	1
282	0.349608	1	298	0.109184	1.17784
282	0.349608	1	298	0.109184	0.822157
282	0.349608	1	298	0.109184	0.814689
282	0.349608	1	298	0.109184	1.18531
283	0.340117	1	298	0.109184	1
283	0.340117	1	299	0.132705	1.17784
283	0.340117	1	299	0.132705	0.822157
283	0.340117	1	299	0.132705	0.814689
283	0.340117	1	299	0.132705	1.18531
284	0.248388	1	299	0.132705	1
284	0.248388	1	300	0.133245	1.17784
284	0.248388	1	300	0.133245	0.822157
284	0.248388	1	300	0.133245	1.16995
284	0.248388	1	300	0.133245	0.830053
285	0.176535	1	300	0.133245	1
285	0.176535	1	301	0.113508	1.17784
285	0.176535	1	301	0.113508	0.822157
285	0.176535	1	301	0.113508	1.16995
285	0.176535	1	301	0.113508	0.830053
286	0.176535	1	301	0.113508	1
286	0.176535	1	302	0.113868	1.17784
286	0.176535	1	302	0.113868	0.822157
286	0.176535	1	302	0.113868	1.16995
286	0.176535	1	302	0.113868	0.830053
287	0.246657	1	302	0.113868	1
287	0.246657	1	303	0.209354	1.17784
287	0.246657	1	303	0.209354	0.822157
287	0.246657	1	303	0.209354	0.814689
287	0.246657	1	303	0.209354	1.18531
288	0.1774	1	303	0.209354	1
288	0.1774	1	304	0.207641	1.17784
288	0.1774	1	304	0.207641	0.822157
288	0.1774	1	304	0.207641	0.814689
288	0.1774	1	304	0.207641	1.18531
289	0.181727	1	304	0.207641	1
289	0.181727	1	305	0.238257	1.17784
289	0.181727	1	305	0.238257	0.822157
289	0.181727	1	305	0.238257	0.814689
289	0.181727	1	305	0.238257	1.18531
290	0.250984	1	305	0.238257	1
290	0.250984	1	306	0.274984	1.17784
290	0.250984	1	306	0.274984	0.822157
290	0.250984	1	306	0.274984	1.16995
290	0.250984	1	306	0.274984	0.830053
291	0.183233	1.17784	306	0.274984	1
291	0.183233	0.822157	307	0.144464	1.17784
291	0.183233	0.814689	307	0.144464	0.822157
291	0.183233	1.18531	307	0.144464	1.16995
291	0.183233	1	307	0.144464	0.830053
292	0.341339	1.17784	307	0.144464	1
292	0.341339	0.822157	308	0.252249	1.17784
292	0.341339	0.814689	308	0.252249	0.822157
292	0.341339	1.18531	308	0.252249	1.16995
292	0.341339	1	308	0.252249	0.830053
293	0.377833	1.17784	308	0.252249	1
293	0.377833	0.822157	309	0.170131	1.17784
293	0.377833	0.814689	309	0.170131	0.822157
293	0.377833	1.18531	309	0.170131	0.814689
293	0.377833	1	309	0.170131	1.18531

309	0.170131	1	325	0.175421	0.830053
310	0.168738	1.17784	325	0.175421	1
310	0.168738	0.822157	326	0.175978	1.17784
310	0.168738	0.814689	326	0.175978	0.822157
310	0.168738	1.18531	326	0.175978	1.16995
310	0.168738	1	326	0.175978	0.830053
311	0.205089	1.17784	326	0.175978	1
311	0.205089	0.822157	327	0.239377	1.17784
311	0.205089	0.814689	327	0.239377	0.822157
311	0.205089	1.18531	327	0.239377	0.814689
311	0.205089	1	327	0.239377	1.18531
312	0.205924	1.17784	327	0.239377	1
312	0.205924	0.822157	328	0.237418	1.17784
312	0.205924	1.16995	328	0.237418	0.822157
312	0.205924	0.830053	328	0.237418	0.814689
312	0.205924	1	328	0.237418	1.18531
313	0.175421	1.17784	328	0.237418	1
313	0.175421	0.822157	329	0.274449	1.17784
313	0.175421	1.16995	329	0.274449	0.822157
313	0.175421	0.830053	329	0.274449	0.814689
313	0.175421	1	329	0.274449	1.18531
314	0.175978	1.17784	329	0.274449	1
314	0.175978	0.822157	330	0.311324	1.17784
314	0.175978	1.16995	330	0.311324	0.822157
314	0.175978	0.830053	330	0.311324	1.16995
314	0.175978	1	330	0.311324	0.830053
315	0.170131	1.17784	330	0.311324	1
315	0.170131	0.822157	331	0.175421	1.17784
315	0.170131	0.814689	331	0.175421	0.822157
315	0.170131	1.18531	331	0.175421	1.16995
315	0.170131	1	331	0.175421	0.830053
316	0.168738	1.17784	331	0.175421	1
316	0.168738	0.822157	332	0.283304	1.17784
316	0.168738	0.814689	332	0.283304	0.822157
316	0.168738	1.18531	332	0.283304	1.16995
316	0.168738	1	332	0.283304	0.830053
317	0.205089	1.17784	332	0.283304	1
317	0.205089	0.822157	333	0.170131	1.17784
317	0.205089	0.814689	333	0.170131	0.822157
317	0.205089	1.18531	333	0.170131	0.814689
317	0.205089	1	333	0.170131	1.18531
318	0.205924	1.17784	333	0.170131	1
318	0.205924	0.822157	334	0.168738	1.17784
318	0.205924	1.16995	334	0.168738	0.822157
318	0.205924	0.830053	334	0.168738	0.814689
318	0.205924	1	334	0.168738	1.18531
319	0.175421	1.17784	334	0.168738	1
319	0.175421	0.822157	335	0.205089	1.17784
319	0.175421	1.16995	335	0.205089	0.822157
319	0.175421	0.830053	335	0.205089	0.814689
319	0.175421	1	335	0.205089	1.18531
320	0.175978	1.17784	335	0.205089	1
320	0.175978	0.822157	336	0.205924	1.17784
320	0.175978	1.16995	336	0.205924	0.822157
320	0.175978	0.830053	336	0.205924	1.16995
320	0.175978	1	336	0.205924	0.830053
321	0.170131	1.17784	336	0.205924	1
321	0.170131	0.822157	337	0.175421	1.17784
321	0.170131	0.814689	337	0.175421	0.822157
321	0.170131	1.18531	337	0.175421	1.16995
321	0.170131	1	337	0.175421	0.830053
322	0.168738	1.17784	337	0.175421	1
322	0.168738	0.822157	338	0.175978	1.17784
322	0.168738	0.814689	338	0.175978	0.822157
322	0.168738	1.18531	338	0.175978	1.16995
322	0.168738	1	338	0.175978	0.830053
323	0.205089	1.17784	338	0.175978	1
323	0.205089	0.822157	339	0.170131	1.17784
323	0.205089	0.814689	339	0.170131	0.822157
323	0.205089	1.18531	339	0.170131	0.814689
323	0.205089	1	339	0.170131	1.18531
324	0.205924	1.17784	339	0.170131	1
324	0.205924	0.822157	340	0.168738	1.17784
324	0.205924	1.16995	340	0.168738	0.822157
324	0.205924	0.830053	340	0.168738	0.814689
324	0.205924	1	340	0.168738	1.18531
325	0.175421	1.17784	340	0.168738	1
325	0.175421	0.822157	341	0.205089	1.17784
325	0.175421	1.16995	341	0.205089	0.822157

341	0.205089	0.814689	357	0.170131	1.19014
341	0.205089	1.18531	357	0.170131	0.814689
341	0.205089	1	357	0.170131	1.18531
342	0.205924	1.17784	357	0.170131	1
342	0.205924	0.822157	358	0.168738	0.809864
342	0.205924	1.16995	358	0.168738	1.19014
342	0.205924	0.830053	358	0.168738	0.814689
342	0.205924	1	358	0.168738	1.18531
343	0.175421	1.17784	358	0.168738	1
343	0.175421	0.822157	359	0.205089	0.809864
343	0.175421	1.16995	359	0.205089	1.19014
343	0.175421	0.830053	359	0.205089	0.814689
343	0.175421	1	359	0.205089	1.18531
344	0.175978	1.17784	359	0.205089	1
344	0.175978	0.822157	360	0.205924	0.809864
344	0.175978	1.16995	360	0.205924	1.19014
344	0.175978	0.830053	360	0.205924	1.16995
344	0.175978	1	360	0.205924	0.830053
345	0.170131	1.17784	360	0.205924	1
345	0.170131	0.822157	361	0.175421	0.809864
345	0.170131	0.814689	361	0.175421	1.19014
345	0.170131	1.18531	361	0.175421	1.16995
345	0.170131	1	361	0.175421	0.830053
346	0.168738	1.17784	361	0.175421	1
346	0.168738	0.822157	362	0.175978	0.809864
346	0.168738	0.814689	362	0.175978	1.19014
346	0.168738	1.18531	362	0.175978	1.16995
346	0.168738	1	362	0.175978	0.830053
347	0.205089	1.17784	362	0.175978	1
347	0.205089	0.822157	363	0.170131	0.809864
347	0.205089	0.814689	363	0.170131	1.19014
347	0.205089	1.18531	363	0.170131	0.814689
347	0.205089	1	363	0.170131	1.18531
348	0.205924	1.17784	363	0.170131	1
348	0.205924	0.822157	364	0.168738	0.809864
348	0.205924	1.16995	364	0.168738	1.19014
348	0.205924	0.830053	364	0.168738	0.814689
348	0.205924	1	364	0.168738	1.18531
349	0.175421	1.17784	364	0.168738	1
349	0.175421	0.822157	365	0.205089	0.809864
349	0.175421	1.16995	365	0.205089	1.19014
349	0.175421	0.830053	365	0.205089	0.814689
349	0.175421	1	365	0.205089	1.18531
350	0.175978	1.17784	365	0.205089	1
350	0.175978	0.822157	366	0.205924	0.809864
350	0.175978	1.16995	366	0.205924	1.19014
350	0.175978	0.830053	366	0.205924	1.16995
350	0.175978	1	366	0.205924	0.830053
351	0.239377	0.809864	366	0.205924	1
351	0.239377	1.19014	367	0.175421	0.809864
351	0.239377	0.814689	367	0.175421	1.19014
351	0.239377	1.18531	367	0.175421	1.16995
351	0.239377	1	367	0.175421	0.830053
352	0.237418	0.809864	367	0.175421	1
352	0.237418	1.19014	368	0.175978	0.809864
352	0.237418	0.814689	368	0.175978	1.19014
352	0.237418	1.18531	368	0.175978	1.16995
352	0.237418	1	368	0.175978	0.830053
353	0.274449	0.809864	368	0.175978	1
353	0.274449	1.19014	369	0.170131	0.809864
353	0.274449	0.814689	369	0.170131	1.19014
353	0.274449	1.18531	369	0.170131	0.814689
353	0.274449	1	369	0.170131	1.18531
354	0.311324	0.809864	369	0.170131	1
354	0.311324	1.19014	370	0.168738	0.809864
354	0.311324	1.16995	370	0.168738	1.19014
354	0.311324	0.830053	370	0.168738	0.814689
354	0.311324	1	370	0.168738	1.18531
355	0.175421	0.809864	370	0.168738	1
355	0.175421	1.19014	371	0.205089	0.809864
355	0.175421	1.16995	371	0.205089	1.19014
355	0.175421	0.830053	371	0.205089	0.814689
355	0.175421	1	371	0.205089	1.18531
356	0.283304	0.809864	371	0.205089	1
356	0.283304	1.19014	372	0.205924	0.809864
356	0.283304	1.16995	372	0.205924	1.19014
356	0.283304	0.830053	372	0.205924	1.16995
356	0.283304	1	372	0.205924	0.830053
357	0.170131	0.809864	372	0.205924	1

373	0.175421	0.809864	387	0.239118	0.809864
373	0.175421	1.19014	387	0.239118	1.19014
373	0.175421	1.16995	387	0.239118	0.814689
373	0.175421	0.830053	387	0.239118	1.18531
373	0.175421	1	387	0.239118	1
374	0.175978	0.809864	388	0.327853	0.809864
374	0.175978	1.19014	388	0.327853	1.19014
374	0.175978	1.16995	388	0.327853	0.814689
374	0.175978	0.830053	388	0.327853	1.18531
374	0.175978	1	388	0.327853	1
375	0.239377	0.809864	389	0.40107	0.809864
375	0.239377	1.19014	389	0.40107	1.19014
375	0.239377	0.814689	389	0.40107	0.814689
375	0.239377	1.18531	389	0.40107	1.18531
375	0.239377	1	389	0.40107	1
376	0.237418	0.809864	390	0.311324	0.809864
376	0.237418	1.19014	390	0.311324	1.19014
376	0.237418	0.814689	390	0.311324	1.16995
376	0.237418	1.18531	390	0.311324	0.830053
376	0.237418	1	390	0.311324	1
377	0.274449	0.809864	391	0.175421	0.809864
377	0.274449	1.19014	391	0.175421	1.19014
377	0.274449	0.814689	391	0.175421	1.16995
377	0.274449	1.18531	391	0.175421	0.830053
377	0.274449	1	391	0.175421	1
378	0.311324	0.809864	392	0.283304	0.809864
378	0.311324	1.19014	392	0.283304	1.19014
378	0.311324	1.16995	392	0.283304	1.16995
378	0.311324	0.830053	392	0.283304	0.830053
378	0.311324	1	392	0.283304	1
379	0.175421	0.809864	393	0.206481	0.809864
379	0.175421	1.19014	393	0.206481	1.19014
379	0.175421	1.16995	393	0.206481	0.814689
379	0.175421	0.830053	393	0.206481	1.18531
379	0.175421	1	393	0.206481	1
380	0.283304	0.809864	394	0.205924	0.809864
380	0.283304	1.19014	394	0.205924	1.19014
380	0.283304	1.16995	394	0.205924	1.16995
380	0.283304	0.830053	394	0.205924	0.830053
380	0.283304	1	394	0.205924	1
381	0.170131	0.809864	395	0.175421	0.809864
381	0.170131	1.19014	395	0.175421	1.19014
381	0.170131	0.814689	395	0.175421	1.16995
381	0.170131	1.18531	395	0.175421	0.830053
381	0.170131	1	395	0.175421	1
382	0.168738	0.809864	396	0.175978	0.809864
382	0.168738	1.19014	396	0.175978	1.19014
382	0.168738	0.814689	396	0.175978	1.16995
382	0.168738	1.18531	396	0.175978	0.830053
382	0.168738	1	396	0.175978	1
383	0.205089	0.809864	397	0.259704	0.809864
383	0.205089	1.19014	397	0.259704	1.19014
383	0.205089	0.814689	397	0.259704	0.814689
383	0.205089	1.18531	397	0.259704	1.18531
383	0.205089	1	397	0.259704	1
384	0.205924	0.809864	398	0.385762	0.809864
384	0.205924	1.19014	398	0.385762	1.19014
384	0.205924	1.16995	398	0.385762	1.16995
384	0.205924	0.830053	398	0.385762	0.830053
384	0.205924	1	398	0.385762	1
385	0.175421	0.809864	399	0.269438	0.809864
385	0.175421	1.19014	399	0.269438	1.19014
385	0.175421	1.16995	399	0.269438	1.16995
385	0.175421	0.830053	399	0.269438	0.830053
385	0.175421	1	399	0.269438	1
386	0.175978	0.809864	400	0.286179	0.809864
386	0.175978	1.19014	400	0.286179	1.19014
386	0.175978	1.16995	400	0.286179	1.16995
386	0.175978	0.830053	400	0.286179	0.830053
386	0.175978	1	400	0.286179	1

2.11 PESO PROPRIO ELEMENTI TIPO BEAM

Descrive i valori del peso proprio degli elementi beam

Descrizione dei parametri:

P_z = Valore del peso proprio in direzione Z per unità di lunghezza

Beam	Px (N/cm)	Pv (N/cm)	Pz (N/cm)
1	0	0	-1.3337
2	0	0	-1.3337
3	0	0	-1.3337
4	0	0	-1.3337
5	0	0	-1.3337
6	0	0	-1.3337
7	0	0	-1.3337
8	0	0	-1.3337
9	0	0	-1.3337
10	0	0	-1.3337
11	0	0	-1.3337
12	0	0	-1.3337
13	0	0	-1.3337
14	0	0	-1.3337
15	0	0	-1.3337
16	0	0	-1.3337
17	0	0	-1.3337
18	0	0	-1.3337
19	0	0	-1.3337
20	0	0	-1.3337
21	0	0	-1.3337
22	0	0	-1.3337
23	0	0	-1.3337
24	0	0	-1.3337
25	0	0	-1.3337
26	0	0	-1.3337
27	0	0	-1.3337
28	0	0	-1.3337
29	0	0	-1.3337
30	0	0	-1.3337
31	0	0	-1.3337
32	0	0	-1.3337
33	0	0	-1.3337
34	0	0	-1.3337
35	0	0	-1.3337
36	0	0	-1.3337
37	0	0	-1.3337
38	0	0	-1.3337
39	0	0	-1.3337
40	0	0	-1.3337
41	0	0	-1.3337
42	0	0	-1.3337
43	0	0	-1.3337
44	0	0	-1.3337
45	0	0	-1.3337
46	0	0	-1.3337
47	0	0	-1.3337
48	0	0	-1.3337
49	0	0	-1.3337
50	0	0	-1.3337
51	0	0	-1.3337
52	0	0	-1.3337
53	0	0	-1.3337
54	0	0	-1.3337
55	0	0	-1.3337
56	0	0	-1.3337
57	0	0	-1.3337
58	0	0	-1.3337
59	0	0	-1.3337
60	0	0	-1.3337
61	0	0	-1.3337

MltZ = Moltiplicatore in direzione Z pressione globale

Shell	CdC	P(kN/m²)	MltX	MltY	MltZ
3	1	0.5	0	0	-1
4	1	0.5	0	0	-1
5	1	0.5	0	0	-1
6	1	0.5	0	0	-1
7	1	0.5	0	0	-1
8	1	0.5	0	0	-1
9	1	0.5	0	0	-1
10	1	0.5	0	0	-1
11	1	0.5	0	0	-1
12	1	0.5	0	0	-1
13	1	0.5	0	0	-1
14	1	0.5	0	0	-1
15	1	0.5	0	0	-1
16	1	0.5	0	0	-1
17	1	0.5	0	0	-1
18	1	0.5	0	0	-1
19	1	0.5	0	0	-1
20	1	0.5	0	0	-1
21	1	0.5	0	0	-1
22	1	0.5	0	0	-1
23	1	0.5	0	0	-1
24	1	0.5	0	0	-1
25	1	0.5	0	0	-1
26	1	0.5	0	0	-1
27	1	0.5	0	0	-1
28	1	0.5	0	0	-1
29	1	0.5	0	0	-1
30	1	0.5	0	0	-1
31	1	0.5	0	0	-1
32	1	0.5	0	0	-1
33	1	0.5	0	0	-1
34	1	0.5	0	0	-1
35	1	0.5	0	0	-1
36	1	0.5	0	0	-1
37	1	0.5	0	0	-1
38	1	0.5	0	0	-1
39	1	0.5	0	0	-1
40	1	0.5	0	0	-1
41	1	0.5	0	0	-1
42	1	0.5	0	0	-1
43	1	0.5	0	0	-1
44	1	0.5	0	0	-1
45	1	0.5	0	0	-1
48	1	0.5	0	0	-1
49	1	0.5	0	0	-1
50	1	0.5	0	0	-1
51	1	0.5	0	0	-1
52	1	0.5	0	0	-1
53	1	0.5	0	0	-1
54	1	0.5	0	0	-1
55	1	0.5	0	0	-1
56	1	0.5	0	0	-1
57	1	0.5	0	0	-1
58	1	0.5	0	0	-1
59	1	0.5	0	0	-1
60	1	0.5	0	0	-1
61	1	0.5	0	0	-1
62	1	0.5	0	0	-1
63	1	0.5	0	0	-1
64	1	0.5	0	0	-1
65	1	0.5	0	0	-1
66	1	0.5	0	0	-1
67	1	0.5	0	0	-1
68	1	0.5	0	0	-1
69	1	0.5	0	0	-1
70	1	0.5	0	0	-1
71	1	0.5	0	0	-1
72	1	0.5	0	0	-1
73	1	0.5	0	0	-1
74	1	0.5	0	0	-1
75	1	0.5	0	0	-1
76	1	0.5	0	0	-1
77	1	0.5	0	0	-1
78	1	0.5	0	0	-1
79	1	0.5	0	0	-1
80	1	0.5	0	0	-1
81	1	0.5	0	0	-1
82	1	0.5	0	0	-1
83	1	0.5	0	0	-1
84	1	0.5	0	0	-1
85	1	0.5	0	0	-1
86	1	0.5	0	0	-1
87	1	0.5	0	0	-1
88	1	0.5	0	0	-1
89	1	0.5	0	0	-1
90	1	0.5	0	0	-1
93	1	0.5	0	0	-1
94	1	0.5	0	0	-1
95	1	0.5	0	0	-1
96	1	0.5	0	0	-1
97	1	0.5	0	0	-1
98	1	0.5	0	0	-1
99	1	0.5	0	0	-1
100	1	0.5	0	0	-1
101	1	0.5	0	0	-1
102	1	0.5	0	0	-1
103	1	0.5	0	0	-1
104	1	0.5	0	0	-1
105	1	0.5	0	0	-1
106	1	0.5	0	0	-1
107	1	0.5	0	0	-1
108	1	0.5	0	0	-1
109	1	0.5	0	0	-1
110	1	0.5	0	0	-1
111	1	0.5	0	0	-1
112	1	0.5	0	0	-1
113	1	0.5	0	0	-1
114	1	0.5	0	0	-1
115	1	0.5	0	0	-1
116	1	0.5	0	0	-1
117	1	0.5	0	0	-1
118	1	0.5	0	0	-1
119	1	0.5	0	0	-1
120	1	0.5	0	0	-1
121	1	0.5	0	0	-1
122	1	0.5	0	0	-1
123	1	0.5	0	0	-1
124	1	0.5	0	0	-1
125	1	0.5	0	0	-1
126	1	0.5	0	0	-1
127	1	0.5	0	0	-1
128	1	0.5	0	0	-1
129	1	0.5	0	0	-1
130	1	0.5	0	0	-1
131	1	0.5	0	0	-1
132	1	0.5	0	0	-1
135	1	0.5	0	0	-1
136	1	0.5	0	0	-1
137	1	0.5	0	0	-1
138	1	0.5	0	0	-1
139	1	0.5	0	0	-1
140	1	0.5	0	0	-1
141	1	0.5	0	0	-1
142	1	0.5	0	0	-1
143	1	0.5	0	0	-1
144	1	0.5	0	0	-1
145	1	0.5	0	0	-1
146	1	0.5	0	0	-1
147	1	0.5	0	0	-1
148	1	0.5	0	0	-1
149	1	0.5	0	0	-1
150	1	0.5	0	0	-1
151	1	0.5	0	0	-1
152	1	0.5	0	0	-1
153	1	0.5	0	0	-1
154	1	0.5	0	0	-1
155	1	0.5	0	0	-1
156	1	0.5	0	0	-1
157	1	0.5	0	0	-1
158	1	0.5	0	0	-1
159	1	0.5	0	0	-1
160	1	0.5	0	0	-1
161	1	0.5	0	0	-1
162	1	0.5	0	0	-1
163	1	0.5	0	0	-1
164	1	0.5	0	0	-1
165	1	0.5	0	0	-1
166	1	0.5	0	0	-1
167	1	0.5	0	0	-1
168	1	0.5	0	0	-1
169	1	0.5	0	0	-1
170	1	0.5	0	0	-1
171	1	0.5	0	0	-1
172	1	0.5	0	0	-1
173	1	0.5	0	0	-1
174	1	0.5	0	0	-1
178	1	0.5	0	0	-1
179	1	0.5	0	0	-1
180	1	0.5	0	0	-1
181	1	0.5	0	0	-1
182	1	0.5	0	0	-1
183	1	0.5	0	0	-1
184	1	0.5	0	0	-1
185	1	0.5	0	0	-1
186	1	0.5	0	0	-1
187	1	0.5	0	0	-1
188	1	0.5	0	0	-1
189	1	0.5	0	0	-1

190	1	0.5	0	0	-1	273	2	0.5	0	0	-1
191	1	0.5	0	0	-1	274	2	0.5	0	0	-1
192	1	0.5	0	0	-1	275	2	0.5	0	0	-1
193	1	0.5	0	0	-1	276	2	0.5	0	0	-1
194	1	0.5	0	0	-1	277	2	0.5	0	0	-1
195	1	0.5	0	0	-1	278	2	0.5	0	0	-1
196	1	0.5	0	0	-1	279	2	0.5	0	0	-1
197	1	0.5	0	0	-1	280	2	0.5	0	0	-1
198	1	0.5	0	0	-1	281	2	0.5	0	0	-1
199	1	0.5	0	0	-1	282	2	0.5	0	0	-1
200	1	0.5	0	0	-1	283	2	0.5	0	0	-1
201	1	0.5	0	0	-1	284	2	0.5	0	0	-1
202	1	0.5	0	0	-1	285	2	0.5	0	0	-1
203	1	0.5	0	0	-1	286	2	0.5	0	0	-1
204	1	0.5	0	0	-1	287	2	0.5	0	0	-1
205	1	0.5	0	0	-1	288	2	0.5	0	0	-1
206	1	0.5	0	0	-1	289	2	0.5	0	0	-1
207	1	0.5	0	0	-1	290	2	0.5	0	0	-1
208	1	0.5	0	0	-1	291	2	0.5	0	0	-1
209	1	0.5	0	0	-1	292	2	0.5	0	0	-1
210	1	0.5	0	0	-1	293	2	0.5	0	0	-1
211	1	0.5	0	0	-1	294	2	0.5	0	0	-1
212	1	0.5	0	0	-1	295	2	0.5	0	0	-1
213	1	0.5	0	0	-1	296	2	0.5	0	0	-1
214	1	0.5	0	0	-1	297	2	0.5	0	0	-1
215	1	0.5	0	0	-1	298	2	0.5	0	0	-1
216	1	0.5	0	0	-1	299	2	0.5	0	0	-1
217	1	0.5	0	0	-1	300	2	0.5	0	0	-1
222	1	0.5	0	0	-1	301	2	0.5	0	0	-1
223	1	0.5	0	0	-1	302	2	0.5	0	0	-1
224	1	0.5	0	0	-1	303	2	0.5	0	0	-1
225	1	0.5	0	0	-1	304	2	0.5	0	0	-1
226	1	0.5	0	0	-1	305	2	0.5	0	0	-1
227	1	0.5	0	0	-1	306	2	0.5	0	0	-1
228	1	0.5	0	0	-1	307	2	0.5	0	0	-1
229	1	0.5	0	0	-1	308	2	0.5	0	0	-1
230	1	0.5	0	0	-1	309	2	0.5	0	0	-1
231	1	0.5	0	0	-1	310	2	0.5	0	0	-1
232	1	0.5	0	0	-1	311	2	0.5	0	0	-1
233	1	0.5	0	0	-1	312	2	0.5	0	0	-1
234	1	0.5	0	0	-1	313	2	0.5	0	0	-1
235	1	0.5	0	0	-1	314	2	0.5	0	0	-1
236	1	0.5	0	0	-1	315	2	0.5	0	0	-1
237	1	0.5	0	0	-1	316	2	0.5	0	0	-1
238	1	0.5	0	0	-1	317	2	0.5	0	0	-1
239	1	0.5	0	0	-1	318	2	0.5	0	0	-1
240	1	0.5	0	0	-1	319	2	0.5	0	0	-1
241	1	0.5	0	0	-1	320	2	0.5	0	0	-1
242	1	0.5	0	0	-1	321	2	0.5	0	0	-1
243	1	0.5	0	0	-1	322	2	0.5	0	0	-1
244	1	0.5	0	0	-1	323	2	0.5	0	0	-1
245	1	0.5	0	0	-1	324	2	0.5	0	0	-1
246	1	0.5	0	0	-1	325	2	0.5	0	0	-1
247	1	0.5	0	0	-1	326	2	0.5	0	0	-1
248	1	0.5	0	0	-1	327	2	0.5	0	0	-1
249	1	0.5	0	0	-1	328	2	0.5	0	0	-1
250	1	0.5	0	0	-1	329	2	0.5	0	0	-1
251	1	0.5	0	0	-1	330	2	0.5	0	0	-1
252	1	0.5	0	0	-1	331	2	0.5	0	0	-1
253	1	0.5	0	0	-1	332	2	0.5	0	0	-1
254	1	0.5	0	0	-1	333	2	0.5	0	0	-1
255	1	0.5	0	0	-1	334	2	0.5	0	0	-1
256	1	0.5	0	0	-1	335	2	0.5	0	0	-1
257	1	0.5	0	0	-1	336	2	0.5	0	0	-1
258	1	0.5	0	0	-1	337	2	0.5	0	0	-1
259	1	0.5	0	0	-1	338	2	0.5	0	0	-1
260	1	0.5	0	0	-1	339	2	0.5	0	0	-1
261	1	0.5	0	0	-1	340	2	0.5	0	0	-1
262	1	0.5	0	0	-1	341	2	0.5	0	0	-1
263	1	0.5	0	0	-1	342	2	0.5	0	0	-1
264	1	0.5	0	0	-1	343	2	0.5	0	0	-1
265	2	0.5	0	0	-1	344	2	0.5	0	0	-1
266	2	0.5	0	0	-1	345	2	0.5	0	0	-1
267	2	0.5	0	0	-1	346	2	0.5	0	0	-1
268	2	0.5	0	0	-1	347	2	0.5	0	0	-1
269	2	0.5	0	0	-1	348	2	0.5	0	0	-1
270	2	0.5	0	0	-1	349	2	0.5	0	0	-1
271	2	0.5	0	0	-1	350	2	0.5	0	0	-1
272	2	0.5	0	0	-1						

2.13 PESO PROPRIO SHELL

Descrive i valori del peso proprio degli elementi Shell

Descrizione dei parametri:

P_z = Valore del peso proprio in direzione Z per unità di superficie

239	0	0	-0.0785	277	0	0	-0.0785	315	0	0	-0.0785
240	0	0	-0.0785	278	0	0	-0.0785	316	0	0	-0.0785
241	0	0	-0.0785	279	0	0	-0.0785	317	0	0	-0.0785
242	0	0	-0.0785	280	0	0	-0.0785	318	0	0	-0.0785
243	0	0	-0.0785	281	0	0	-0.0785	319	0	0	-0.0785
244	0	0	-0.0785	282	0	0	-0.0785	320	0	0	-0.0785
245	0	0	-0.0785	283	0	0	-0.0785	321	0	0	-0.0785
246	0	0	-0.0785	284	0	0	-0.0785	322	0	0	-0.0785
247	0	0	-0.0785	285	0	0	-0.0785	323	0	0	-0.0785
248	0	0	-0.0785	286	0	0	-0.0785	324	0	0	-0.0785
249	0	0	-0.0785	287	0	0	-0.0785	325	0	0	-0.0785
250	0	0	-0.0785	288	0	0	-0.0785	326	0	0	-0.0785
251	0	0	-0.0785	289	0	0	-0.0785	327	0	0	-0.0785
252	0	0	-0.0785	290	0	0	-0.0785	328	0	0	-0.0785
253	0	0	-0.0785	291	0	0	-0.0785	329	0	0	-0.0785
254	0	0	-0.0785	292	0	0	-0.0785	330	0	0	-0.0785
255	0	0	-0.0785	293	0	0	-0.0785	331	0	0	-0.0785
256	0	0	-0.0785	294	0	0	-0.0785	332	0	0	-0.0785
257	0	0	-0.0785	295	0	0	-0.0785	333	0	0	-0.0785
258	0	0	-0.0785	296	0	0	-0.0785	334	0	0	-0.0785
259	0	0	-0.0785	297	0	0	-0.0785	335	0	0	-0.0785
260	0	0	-0.0785	298	0	0	-0.0785	336	0	0	-0.0785
261	0	0	-0.0785	299	0	0	-0.0785	337	0	0	-0.0785
262	0	0	-0.0785	300	0	0	-0.0785	338	0	0	-0.0785
263	0	0	-0.0785	301	0	0	-0.0785	339	0	0	-0.0785
264	0	0	-0.0785	302	0	0	-0.0785	340	0	0	-0.0785
265	0	0	-0.0785	303	0	0	-0.0785	341	0	0	-0.0785
266	0	0	-0.0785	304	0	0	-0.0785	342	0	0	-0.0785
267	0	0	-0.0785	305	0	0	-0.0785	343	0	0	-0.0785
268	0	0	-0.0785	306	0	0	-0.0785	344	0	0	-0.0785
269	0	0	-0.0785	307	0	0	-0.0785	345	0	0	-0.0785
270	0	0	-0.0785	308	0	0	-0.0785	346	0	0	-0.0785
271	0	0	-0.0785	309	0	0	-0.0785	347	0	0	-0.0785
272	0	0	-0.0785	310	0	0	-0.0785	348	0	0	-0.0785
273	0	0	-0.0785	311	0	0	-0.0785	349	0	0	-0.0785
274	0	0	-0.0785	312	0	0	-0.0785	350	0	0	-0.0785
275	0	0	-0.0785	313	0	0	-0.0785				
276	0	0	-0.0785	314	0	0	-0.0785				

2.14 CONDIZIONI DI CARICO GENERALI DEI CARICHI DA SOLAIO/TAMPONAMENTO

Di seguito vengono indicate le condizioni elementari di carico nelle quali sono applicati i carichi da solaio in mancanza di indicazioni specifiche per il singolo elemento solaio-tamponamento:

Condizione di carico nella quale applicare il Peso Proprio del solaio: 1

Condizione di carico nella quale applicare il Sovraccarico Permanente del solaio: 1

Condizione di carico nella quale applicare il carico Variabile per la Scacchiera A: 1

Condizione di carico nella quale applicare il carico Variabile per la Scacchiera B: 1

2.15 ANALISI MODALE

Di seguito sono descritti tutti i parametri utilizzati per l'analisi modale.

Metodo di calcolo utilizzato: Lanczos

Matrici di Massa: CONSISTENT matrice di massa completa

Sequenza di STURM Abilitata

Moto Rigido non consentito

Tolleranza per calcolo autovalori 0

Numero Massimo di iterazioni per il calcolo autovalori 24

Analisi modale con effetti del II ordine: No

L'analisi modale è stata svolta considerando il modello nella fase 1.

Di seguito sono indicati i periodi per ogni modo di vibrare estratto

Lancio n°1:

n. Modo	Periodo (Secondi)
1	0.14083
2	0.12647

n. Modo	Periodo (Secondi)
3	0.10317
4	0.095092
5	0.087547
6	0.076374
7	0.07007
8	0.06412
9	0.058455
10	0.052163
11	0.05038
12	0.048363
13	0.047887
14	0.045272
15	0.044051
16	0.043012
17	0.042913
18	0.042101
19	0.041656
20	0.039513
21	0.037714
22	0.034396
23	0.034008
24	0.033278
25	0.031341
26	0.031071
27	0.030606
28	0.030129
29	0.029689
30	0.029389
31	0.029226
32	0.02863
33	0.028413
34	0.027698
35	0.027066
36	0.026604
37	0.026205
38	0.025684
39	0.025069
40	0.024853
41	0.02467
42	0.024294
43	0.024143
44	0.023762
45	0.023513
46	0.023387
47	0.02268
48	0.021897
49	0.02161
50	0.021216
51	0.020657
52	0.020378
53	0.02018
54	0.020089
55	0.019727
56	0.01935
57	0.018878
58	0.01875
59	0.018165
60	0.017664

n. Modo	Periodo (Secondi)
61	0.017248
62	0.017045
63	0.016873
64	0.016771
65	0.01673
66	0.016645
67	0.0159
68	0.015815
69	0.01561
70	0.015355
71	0.01505
72	0.014897
73	0.0148
74	0.014594
75	0.014524
76	0.014335
77	0.014205
78	0.014169
79	0.013976
80	0.01372
81	0.01362
82	0.013516
83	0.013378
84	0.013146
85	0.01301
86	0.012932
87	0.012782
88	0.012614
89	0.012489
90	0.012432
91	0.012244
92	0.012012
93	0.011632
94	0.011585
95	0.011293
96	0.011054
97	0.011014
98	0.010928
99	0.01088
100	0.010736
101	0.010452
102	0.010415
103	0.010245
104	0.010176
105	0.010123
106	0.010049
107	0.0098657
108	0.0098332
109	0.0098091
110	0.0097252
111	0.0096516
112	0.0096159
113	0.0095508
114	0.0095068
115	0.0092607
116	0.009235
117	0.0091464
118	0.0089971

n. Modo	Periodo (Secondi)
119	0.0089665
120	0.008848
121	0.0087676
122	0.0086252
123	0.0085696
124	0.0084984
125	0.0084344
126	0.0083878
127	0.0083246
128	0.0082619
129	0.0081521
130	0.0080866
131	0.0079885
132	0.0079736
133	0.0077909
134	0.0076916
135	0.0076415
136	0.0075482
137	0.0074595
138	0.0073583
139	0.0072994
140	0.0072802
141	0.0071497
142	0.0071316
143	0.0071138
144	0.0070864
145	0.0070491
146	0.0070196
147	0.0069097
148	0.0068508
149	0.0067831
150	0.0067367

Lancio n°2:

n. Modo	Periodo (Secondi)
1	0.13947
2	0.12639
3	0.10313
4	0.094986
5	0.083575
6	0.075936
7	0.070453
8	0.064099
9	0.058443
10	0.052216
11	0.050437
12	0.0482
13	0.04789
14	0.045262
15	0.04389
16	0.042986
17	0.042827
18	0.042027
19	0.0417
20	0.039537
21	0.037735
22	0.034339

n. Modo	Periodo (Secondi)
23	0.033971
24	0.03337
25	0.031583
26	0.031205
27	0.030565
28	0.029691
29	0.029456
30	0.02939
31	0.02919
32	0.029081
33	0.027934
34	0.027291
35	0.027039
36	0.026511
37	0.026091
38	0.025598
39	0.025064
40	0.024894
41	0.024486
42	0.024292
43	0.024178
44	0.023793
45	0.023328
46	0.023041
47	0.022068
48	0.021884
49	0.021708
50	0.02115
51	0.020793
52	0.020574
53	0.020355
54	0.020169
55	0.019698
56	0.019068
57	0.018876
58	0.018746
59	0.017997
60	0.017587
61	0.017247
62	0.016877
63	0.016824
64	0.016731
65	0.016729
66	0.016616
67	0.015817
68	0.015739
69	0.015646
70	0.015397
71	0.014948
72	0.014856
73	0.014774
74	0.014644
75	0.014482
76	0.014276
77	0.014175
78	0.014051
79	0.013767
80	0.013617

n. Modo	Periodo (Secondi)
81	0.013583
82	0.013459
83	0.013361
84	0.013298
85	0.01302
86	0.012844
87	0.012818
88	0.012629
89	0.012492
90	0.012329
91	0.012147
92	0.012013
93	0.011669
94	0.011557
95	0.011126
96	0.011047
97	0.011027
98	0.010943
99	0.010773
100	0.010626
101	0.010518
102	0.010373
103	0.010254
104	0.010146
105	0.010111
106	0.010046
107	0.0098613
108	0.0097359
109	0.0096951
110	0.0096646
111	0.0096251
112	0.0095609
113	0.0095337
114	0.0094822
115	0.0094133
116	0.0092729
117	0.0091744
118	0.0090888
119	0.0089301
120	0.0087962
121	0.0087434
122	0.0086711
123	0.0086608
124	0.0085346
125	0.008429
126	0.0083634
127	0.0082825
128	0.0082484
129	0.0081387
130	0.0081139
131	0.007993
132	0.007928
133	0.007773
134	0.0077591
135	0.0076477
136	0.0075976
137	0.0074704
138	0.0073773

n. Modo	Periodo (Secondi)
139	0.0072632
140	0.0071883
141	0.0071486
142	0.0071172
143	0.0071018
144	0.0070272
145	0.0069957
146	0.0069711
147	0.0068918
148	0.0068555
149	0.0067409
150	0.0066811

Lancio n°3:

n. Modo	Periodo (Secondi)
1	0.14018
2	0.12634
3	0.10324
4	0.094918
5	0.085605
6	0.076191
7	0.070315
8	0.064093
9	0.058455
10	0.052474
11	0.050817
12	0.048175
13	0.047898
14	0.045144
15	0.044017
16	0.042974
17	0.042932
18	0.04204
19	0.041909
20	0.039539
21	0.037751
22	0.034635
23	0.033901
24	0.033467
25	0.031419
26	0.030653
27	0.030419
28	0.029698
29	0.029616
30	0.029579
31	0.029277
32	0.029146
33	0.028532
34	0.027152
35	0.026793
36	0.02668
37	0.026136
38	0.025735
39	0.025105
40	0.024873
41	0.024554
42	0.024316

n. Modo	Periodo (Secondi)
43	0.024183
44	0.023778
45	0.023362
46	0.02268
47	0.022447
48	0.02195
49	0.021818
50	0.021263
51	0.020934
52	0.020485
53	0.020363
54	0.020161
55	0.01957
56	0.019145
57	0.018889
58	0.018747
59	0.018352
60	0.017861
61	0.01723
62	0.016905
63	0.016838
64	0.016731
65	0.016611
66	0.016571
67	0.016072
68	0.015775
69	0.015426
70	0.015365
71	0.015016
72	0.014916
73	0.014781
74	0.014626
75	0.014471
76	0.014304
77	0.014185
78	0.014048
79	0.013966
80	0.013813
81	0.01366
82	0.013589
83	0.013455
84	0.013378
85	0.012903
86	0.012882
87	0.012668
88	0.012607
89	0.012471
90	0.012417
91	0.012284
92	0.01202
93	0.011774
94	0.011633
95	0.011248
96	0.011054
97	0.011015
98	0.010934
99	0.010729
100	0.010638

n. Modo	Periodo (Secondi)
101	0.010474
102	0.010369
103	0.010247
104	0.010175
105	0.010073
106	0.0099936
107	0.009906
108	0.0098193
109	0.0097515
110	0.009716
111	0.0096973
112	0.0096279
113	0.0095573
114	0.0095178
115	0.0093425
116	0.009294
117	0.0091261
118	0.0090522
119	0.0089203
120	0.0088494
121	0.0086958
122	0.0086579
123	0.0086181
124	0.0084826
125	0.0084247
126	0.0083782
127	0.0083048
128	0.008288
129	0.0081397
130	0.0080843
131	0.0079861
132	0.0079168
133	0.0077999
134	0.0077518
135	0.0076618
136	0.0076239
137	0.0074585
138	0.0073833
139	0.0073457
140	0.0071837
141	0.0071436
142	0.0071067
143	0.0070876
144	0.0070641
145	0.0070429
146	0.0070414
147	0.006872
148	0.0068519
149	0.00676
150	0.0066492

Lancio n°4:

n. Modo	Periodo (Secondi)
1	0.14006
2	0.12651
3	0.10304
4	0.095113

n. Modo	Periodo (Secondi)
5	0.08537
6	0.076146
7	0.070167
8	0.064127
9	0.058447
10	0.052279
11	0.050599
12	0.048234
13	0.047886
14	0.045273
15	0.043943
16	0.043051
17	0.042792
18	0.042091
19	0.041714
20	0.039513
21	0.037725
22	0.034245
23	0.034138
24	0.03325
25	0.031287
26	0.030681
27	0.030519
28	0.029829
29	0.02969
30	0.029407
31	0.029228
32	0.028715
33	0.028408
34	0.027272
35	0.027076
36	0.02686
37	0.02613
38	0.02558
39	0.025035
40	0.024878
41	0.024568
42	0.024332
43	0.024186
44	0.023743
45	0.023354
46	0.022897
47	0.022807
48	0.021919
49	0.021683
50	0.021177
51	0.020708
52	0.020382
53	0.020175
54	0.019816
55	0.019697
56	0.019107
57	0.018872
58	0.018749
59	0.018162
60	0.017579
61	0.017259
62	0.017051

n. Modo	Periodo (Secondi)
63	0.016834
64	0.016773
65	0.016722
66	0.016554
67	0.01619
68	0.0158
69	0.015412
70	0.015299
71	0.014911
72	0.014841
73	0.0148
74	0.014588
75	0.01444
76	0.014322
77	0.014225
78	0.014138
79	0.013911
80	0.013822
81	0.013614
82	0.013523
83	0.013416
84	0.013287
85	0.013041
86	0.012904
87	0.012765
88	0.012608
89	0.012372
90	0.012253
91	0.012143
92	0.012001
93	0.011854
94	0.011606
95	0.011118
96	0.011068
97	0.011028
98	0.010956
99	0.010787
100	0.010673
101	0.010414
102	0.010333
103	0.010244
104	0.010136
105	0.010091
106	0.0099367
107	0.009838
108	0.0097958
109	0.0097466
110	0.0097023
111	0.0096498
112	0.0096125
113	0.0095607
114	0.0095169
115	0.0092997
116	0.0092199
117	0.0091372
118	0.0090801
119	0.0088695
120	0.0088228

n. Modo	Periodo (Secondi)
121	0.0087581
122	0.0086578
123	0.0086119
124	0.0085332
125	0.0084009
126	0.0083348
127	0.0082951
128	0.008264
129	0.0081458
130	0.0080814
131	0.007993
132	0.0079731
133	0.0078379
134	0.0077402
135	0.0077291
136	0.0076634
137	0.0074999
138	0.0074064
139	0.0073497
140	0.0071623
141	0.0071383
142	0.0071142
143	0.0071064
144	0.0070877
145	0.0070446
146	0.0069664
147	0.0068851
148	0.0067685
149	0.0067427
150	0.0066613

Lancio n°5:

n. Modo	Periodo (Secondi)
1	0.14009
2	0.12643
3	0.10314
4	0.095013
5	0.085428
6	0.076137
7	0.070213
8	0.064109
9	0.05845
10	0.05229
11	0.05059
12	0.048247
13	0.047891
14	0.045266
15	0.043974
16	0.042999
17	0.042862
18	0.042062
19	0.041787
20	0.039525
21	0.037732
22	0.034358
23	0.034005
24	0.033343

n. Modo	Periodo (Secondi)
25	0.031346
26	0.030684
27	0.03053
28	0.029893
29	0.02969
30	0.029414
31	0.029208
32	0.028855
33	0.028261
34	0.027248
35	0.027162
36	0.026902
37	0.026132
38	0.025634
39	0.025063
40	0.024874
41	0.024584
42	0.024299
43	0.024167
44	0.023782
45	0.023359
46	0.022933
47	0.022824
48	0.021932
49	0.021839
50	0.021176
51	0.02065
52	0.020405
53	0.020263
54	0.02016
55	0.019702
56	0.019117
57	0.01888
58	0.018748
59	0.018251
60	0.01774
61	0.017249
62	0.016904
63	0.016839
64	0.016763
65	0.01673
66	0.016629
67	0.015917
68	0.015818
69	0.015654
70	0.015376
71	0.014945
72	0.014885
73	0.014737
74	0.014544
75	0.014515
76	0.014322
77	0.014189
78	0.014144
79	0.013939
80	0.013804
81	0.013624
82	0.013555

n. Modo	Periodo (Secondi)
83	0.013395
84	0.01333
85	0.012986
86	0.012855
87	0.012813
88	0.012615
89	0.012483
90	0.012426
91	0.012218
92	0.012014
93	0.011686
94	0.011589
95	0.011123
96	0.011047
97	0.011007
98	0.010954
99	0.010811
100	0.010799
101	0.010443
102	0.01038
103	0.010246
104	0.01014
105	0.010083
106	0.0099687
107	0.0098719
108	0.0098399
109	0.0097472
110	0.0097016
111	0.0096591
112	0.0096036
113	0.0095872
114	0.0094971
115	0.0093325
116	0.0092671
117	0.0091735
118	0.0090943
119	0.0089144
120	0.0088545
121	0.0088319
122	0.0086567
123	0.0086492
124	0.0085891
125	0.0084482
126	0.0083829
127	0.0083217
128	0.0082821
129	0.0081405
130	0.0080738
131	0.0079889
132	0.0079029
133	0.0077984
134	0.0077266
135	0.007698
136	0.0076332
137	0.0074451
138	0.007373
139	0.0072225
140	0.0071797

n. Modo	Periodo (Secondi)
141	0.0071398
142	0.0071095
143	0.0070977
144	0.0070891
145	0.0070417
146	0.0070174
147	0.0069374
148	0.0068534
149	0.0068024
150	0.0067385

2.16 ANALISI SISMICA

Di seguito vengono indicati i parametri dell'analisi sismica.

Parametri del DM 14/01/2008:

Categoria suolo di fondazione: C

Categoria Topografica: T1

Coeff.smorzam.equivalente ξ : 5%

Fattore di struttura q_x , q_y per sismi in dir.x e y (orizzontali) e q_z (verticali): 1, 1, 1.5

Classe di duttilità Bassa

Coefficiente eccentricità accidentale centro di massa: 0.05

La massa propria degli elementi strutturali è inclusa nelle analisi sismiche.

2.16.1 Fattore di struttura per Sisma in Direzione X

Il valore di q_x è stato imposto a $q_x = 1$.

2.16.2 Fattore di struttura per Sisma in Direzione Y

Il valore di q_y è stato imposto a $q_y = 1$.

2.16.3 Condizioni sismiche dinamiche

La presente analisi numerica prevede l'esame delle condizioni di carico sismiche corrispondenti alle seguenti tipologie di azioni indicate in tabella:

CdC	= numero della condizione di carico dinamica
Lancio	= ad ogni lancio corrisponde una distribuzione delle masse differente; tutte le CdC di tipo sismico statico equivalente sono analizzate in un unico lancio statico del solutore, mentre per le CdC dinamiche ad ogni lancio corrisponde un lancio dinamico del solutore.
Nome	= nome della CdC dinamica
Tipo	= indica la direzione ed eventualmente il tipo di CdC sismica
SottoTipo:	indica il tipo di stato limite: SLO, SLD, SLV, SLC sono gli stati limite del par.3.2.1 DM 14/01/2008 SLD 2/3 è lo spettro di risposta con $\eta = 2/3$ per le verifiche di resistenza a SLU (combinaz.eccesz.) secondo il par.7.3.7.1 DM 14/01/2008
Spettro di risposta	= definisce il coefficiente di risposta in funzione del periodo
a_g/g	= questo valore indica l'accelerazione di picco del suolo, espressa in $g = 9.80665 \text{ m/s}^2$
Dy	= indica che si tratta di una CdC dinamica

Molt.X , Molt.Y , Molt.Z: moltiplicatori per applicare lo spettro di risposta alle varie direzioni.

CdC	Lancio	Nome	Tipo	Spettro di Risposta	ag/g	Molt.X	Molt.Y	Molt.Z
1	1	Sisma SLO X Dx	Sisma SLE X (Dy)	~DM 14/1/2008 SLO X	0.0809	1	0	0
			SottoTipo: SLO					
3	1	Sisma SLD X Dx	Sisma SLE X (Dy)	~DM 14/1/2008 SLD X	0.1012	1	0	0
			SottoTipo: SLD					
11	1	Sisma SLD 2/3 X Dx	Sisma SLU X (Dy)	~DM 14/1/2008 SLD 2/3 X	0.1012	1	0	0
			SottoTipo: SLD 2/3					
13	1	Sisma SLV X Dx	Sisma SLU X (Dy)	~DM 14/1/2008 SLV X	0.2407	1	0	0
			SottoTipo: SLV					
2	2	Sisma SLO X Sx	Sisma SLE X (Dy)	~DM 14/1/2008 SLO X	0.0809	1	0	0
			SottoTipo: SLO					
4	2	Sisma SLD X Sx	Sisma SLE X (Dy)	~DM 14/1/2008 SLD X	0.1012	1	0	0
			SottoTipo: SLD					
12	2	Sisma SLD 2/3 X Sx	Sisma SLU X (Dy)	~DM 14/1/2008 SLD 2/3 X	0.1012	1	0	0
			SottoTipo: SLD 2/3					
14	2	Sisma SLV X Sx	Sisma SLU X (Dy)	~DM 14/1/2008 SLV X	0.2407	1	0	0
			SottoTipo: SLV					
5	3	Sisma SLO Y Dx	Sisma SLE Y (Dy)	~DM 14/1/2008 SLO Y	0.0809	0	1	0
			SottoTipo: SLO					
7	3	Sisma SLD Y Dx	Sisma SLE Y (Dy)	~DM 14/1/2008 SLD Y	0.1012	0	1	0
			SottoTipo: SLD					
15	3	Sisma SLD 2/3 Y Dx	Sisma SLU Y (Dy)	~DM 14/1/2008 SLD 2/3 Y	0.1012	0	1	0
			SottoTipo: SLD 2/3					
17	3	Sisma SLV Y Dx	Sisma SLU Y (Dy)	~DM 14/1/2008 SLV Y	0.2407	0	1	0
			SottoTipo: SLV					
6	4	Sisma SLO Y Sx	Sisma SLE Y (Dy)	~DM 14/1/2008 SLO Y	0.0809	0	1	0
			SottoTipo: SLO					
8	4	Sisma SLD Y Sx	Sisma SLE Y (Dy)	~DM 14/1/2008 SLD Y	0.1012	0	1	0
			SottoTipo: SLD					
16	4	Sisma SLD 2/3 Y Sx	Sisma SLU Y (Dy)	~DM 14/1/2008 SLD 2/3 Y	0.1012	0	1	0
			SottoTipo: SLD 2/3					
18	4	Sisma SLV Y Sx	Sisma SLU Y (Dy)	~DM 14/1/2008 SLV Y	0.2407	0	1	0
			SottoTipo: SLV					
9	5	Sisma SLO Z	Sisma SLE Z (Dy)	~DM 14/1/2008 SLO Z	0.0809	0	0	-1
			SottoTipo: SLO					
10	5	Sisma SLD Z	Sisma SLE Z (Dy)	~DM 14/1/2008 SLD Z	0.1012	0	0	-1
			SottoTipo: SLD					
19	5	Sisma SLD 2/3 Z	Sisma SLU Z (Dy)	~DM 14/1/2008 SLD 2/3 Z	0.1012	0	0	-1
			SottoTipo: SLD 2/3					
20	5	Sisma SLV Z	Sisma SLU Z (Dy)	~DM 14/1/2008 SLV Z	0.2407	0	0	-1
			SottoTipo: SLV					

2.16.4 Parametri per calcolo spettri di risposta

Per il calcolo degli spettri di risposta secondo il par.3.2 del DM 14/01/2008 sono stati utilizzati i seguenti parametri, ove:

- P_{VR} probabilità di superamento nel periodo di ritorno
- T_R periodo di ritorno
- a_g/g accelerazione orizzontale massima del suolo
- F_o valore massimo del fattore di amplificazione dello spettro in accelerazione orizzontale
- T_c^* valore base per calcolo del periodo di inizio del tratto a velocità costante dello spettro in accelerazione orizzontale

Collocazione del sito: Longitudine = 11.6953°, Latitudine = 44.4612°

SLO:

$P_{VR}=81\%$, $T_R= 60$ anni, $a_g/g = 0.0809$ sec, $F_o = 2.423$, $T_c^*= 0.2751$ sec

SLD:

$P_{VR}=63\%$, $T_R= 101$ anni, $a_g/g = 0.1012$ sec, $F_o = 2.4297$, $T_c^*= 0.2823$ sec

SLV:

$P_{VR}=10\%$, $T_R= 949$ anni, $a_g/g = 0.2407$ sec, $F_o = 2.4355$, $T_c^*= 0.3116$ sec

2.16.5 Spettri di risposta utilizzati

Spettro per Punti ~DM 14/1/2008 SLV Z

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	0.662
2	0.05	1.075
3	0.15	1.075
4	0.35	0.461
5	0.55	0.293
6	0.75	0.215
7	0.95	0.2
8	1	0.2
9	1.2	0.2
10	1.4	0.2
11	1.6	0.2
12	1.8	0.2

13	2	0.2
14	2.2	0.2
15	2.4	0.2
16	2.6	0.2
17	2.8	0.2
18	3	0.2
19	3.2	0.2
20	3.4	0.2
21	3.6	0.2
22	3.8	0.2
23	4	0.2

Spettro per Punti ~DM 14/1/2008 SLV Y

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.348
2	0.16	3.284
3	0.481	3.284
4	0.681	2.319
5	0.881	1.792
6	1.081	1.461
7	1.281	1.233
8	1.481	1.066
9	1.681	0.939
10	1.881	0.839

11	2.081	0.759
12	2.281	0.692
13	2.481	0.636
14	2.563	0.616
15	2.763	0.53
16	2.963	0.461
17	3.163	0.404
18	3.363	0.358
19	3.563	0.319
20	3.763	0.286
21	3.963	0.258
22	4	0.253

Spettro per Punti ~DM 14/1/2008 SLV X

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.348
2	0.16	3.284
3	0.481	3.284
4	0.681	2.319
5	0.881	1.792
6	1.081	1.461
7	1.281	1.233
8	1.481	1.066
9	1.681	0.939
10	1.881	0.839

11	2.081	0.759
12	2.281	0.692
13	2.481	0.636
14	2.563	0.616
15	2.763	0.53
16	2.963	0.461
17	3.163	0.404
18	3.363	0.358
19	3.563	0.319
20	3.763	0.286
21	3.963	0.258
22	4	0.253

Spettro per Punti ~DM 14/1/2008 SLD 2/3 Z

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	0.429
2	0.05	0.696
3	0.15	0.696
4	0.35	0.298
5	0.55	0.19
6	0.75	0.139
7	0.95	0.11
8	1	0.104
9	1.2	0.072
10	1.4	0.053
11	1.6	0.041

12	1.8	0.032
13	2	0.026
14	2.2	0.022
15	2.4	0.018
16	2.6	0.015
17	2.8	0.013
18	3	0.012
19	3.2	0.01
20	3.4	0.009
21	3.6	0.008
22	3.8	0.007
23	4	0.007

Spettro per Punti ~DM 14/1/2008 SLD 2/3 Y

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.5
2	0.15	2.43
3	0.45	2.43
4	0.65	1.682
5	0.85	1.286
6	1.05	1.041
7	1.25	0.875
8	1.45	0.754
9	1.65	0.663
10	1.85	0.591
11	2.005	0.545

12	2.205	0.451
13	2.405	0.379
14	2.605	0.323
15	2.805	0.279
16	3.005	0.243
17	3.205	0.213
18	3.405	0.189
19	3.605	0.169
20	3.805	0.151
21	4	0.137

Spettro per Punti ~DM 14/1/2008 SLD 2/3 X

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.5
2	0.15	2.43
3	0.45	2.43
4	0.65	1.682
5	0.85	1.286
6	1.05	1.041
7	1.25	0.875
8	1.45	0.754
9	1.65	0.663
10	1.85	0.591
11	2.005	0.545

12	2.205	0.451
13	2.405	0.379
14	2.605	0.323
15	2.805	0.279
16	3.005	0.243
17	3.205	0.213
18	3.405	0.189
19	3.605	0.169
20	3.805	0.151
21	4	0.137

Spettro per Punti ~DM 14/1/2008 SLD Z

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	0.429
2	0.05	1.043
3	0.15	1.043
4	0.35	0.447
5	0.55	0.285
6	0.75	0.209
7	0.95	0.165
8	1	0.157
9	1.2	0.109
10	1.4	0.08
11	1.6	0.061
12	1.8	0.048

13	2	0.039
14	2.2	0.032
15	2.4	0.027
16	2.6	0.023
17	2.8	0.02
18	3	0.017
19	3.2	0.015
20	3.4	0.014
21	3.6	0.012
22	3.8	0.011
23	4	0.01

Spettro per Punti ~DM 14/1/2008 SLD Y

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.5
2	0.15	3.645
3	0.45	3.645
4	0.65	2.523
5	0.85	1.929
6	1.05	1.562
7	1.25	1.312
8	1.45	1.131
9	1.65	0.994
10	1.85	0.886

11	2.005	0.818
12	2.205	0.676
13	2.405	0.568
14	2.605	0.485
15	2.805	0.418
16	3.005	0.364
17	3.205	0.32
18	3.405	0.284
19	3.605	0.253
20	3.805	0.227
21	4	0.205

Spettro per Punti ~DM 14/1/2008 SLD X

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.5
2	0.15	3.645
3	0.45	3.645
4	0.65	2.523
5	0.85	1.929
6	1.05	1.562
7	1.25	1.312
8	1.45	1.131
9	1.65	0.994
10	1.85	0.886
11	2.005	0.818

12	2.205	0.676
13	2.405	0.568
14	2.605	0.485
15	2.805	0.418
16	3.005	0.364
17	3.205	0.32
18	3.405	0.284
19	3.605	0.253
20	3.805	0.227
21	4	0.205

Spettro per Punti ~DM 14/1/2008 SLO Z

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	0.384
2	0.05	0.93
3	0.15	0.93
4	0.35	0.399
5	0.55	0.254
6	0.75	0.186
7	0.95	0.147
8	1	0.14
9	1.2	0.097
10	1.4	0.071
11	1.6	0.055
12	1.8	0.043

13	2	0.035
14	2.2	0.029
15	2.4	0.024
16	2.6	0.021
17	2.8	0.018
18	3	0.016
19	3.2	0.014
20	3.4	0.012
21	3.6	0.011
22	3.8	0.01
23	4	0.009

Spettro per Punti ~DM 14/1/2008 SLO Y

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.5
2	0.147	3.635
3	0.442	3.635
4	0.642	2.503
5	0.842	1.908
6	1.042	1.542
7	1.242	1.294
8	1.442	1.114
9	1.642	0.979
10	1.842	0.872

11	1.924	0.836
12	2.124	0.686
13	2.324	0.573
14	2.524	0.485
15	2.724	0.417
16	2.924	0.362
17	3.124	0.317
18	3.324	0.28
19	3.524	0.249
20	3.724	0.223
21	3.924	0.201
22	4	0.193

Spettro per Punti ~DM 14/1/2008 SLO X

Punto	Periodo (secondi)	Accelerazione Normalizzata
1	0	1.5
2	0.147	3.635
3	0.442	3.635
4	0.642	2.503
5	0.842	1.908
6	1.042	1.542
7	1.242	1.294
8	1.442	1.114
9	1.642	0.979
10	1.842	0.872

11	1.924	0.836
12	2.124	0.686
13	2.324	0.573
14	2.524	0.485
15	2.724	0.417
16	2.924	0.362
17	3.124	0.317
18	3.324	0.28
19	3.524	0.249
20	3.724	0.223
21	3.924	0.201
22	4	0.193

2.16.6 Moltiplicatori calcolo automatico Masse

Di seguito sono elencati i moltiplicatori delle CdC elementari per il calcolo automatico delle masse:

CdC = n.Condizione di Carico Elementare

Coeff.SLE = moltiplicatori per lo Stato Limite d'Esercizio

Coeff.SLU = moltiplicatori per lo Stato Limite Ultimo

X, Y, Z = coefficienti di direzionalità

CdC	Coeff.SLE	Coeff.SLU	X	Y	Z
1	1	1	1	1	1
2	1	1	1	1	1

2.16.7 Definizioni piani per calcolo offset masse

I piani per il calcolo dell'offset delle masse sono stati definiti tramite i seguenti gruppi di selezione:

Nome Gruppo di Selezione
~: Impalcato n°1

2.16.8 Analisi dinamica

Elementi soggetti a sisma verticale:

Nome gruppo di selezione su cui agisce: ~S 275

Metodo di combinazione modale:

- **CQC** nel calcolo della risposta sismica, i contributi derivanti dai singoli modi sono combinati tenendo conto del segno delle singole componenti modali. La generica componente U_i delle risposta sismica è data da una combinazione quadratica delle componenti U_{ij} ($j=1,N.\text{modi}$) in cui i coefficienti di combinazione fra due modi distinti dipendono dai coefficienti di smorzamento dei due modi e dal rapporto fra le due frequenze. Se non vengono assegnati smorzamenti modali, i risultati forniti da questo metodo coincidono con quelli del metodo RMS.

2.16.9 Masse movimentate

La massa movimentata è calcolata in percentuale sulla massa totale applicata ai gradi di libertà dei nodi non vincolati.

A seguito sono descritte le percentuali di masse movimentate:

Lancio n°1:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.14083	0.281	0.281	0.010	0.010	2.277	2.277
2	0.12647	30.097	29.816	0.020	0.010	2.307	0.030
3	0.10317	30.127	0.030	0.130	0.110	2.338	0.030
4	0.095092	30.127	0.000	0.130	0.000	2.448	0.110
5	0.087547	30.137	0.010	1.435	1.304	8.347	5.899
6	0.076374	31.963	1.826	1.986	0.552	10.032	1.685
7	0.07007	33.297	1.334	5.086	3.100	10.845	0.813
8	0.06412	35.795	2.498	5.187	0.100	10.855	0.010
9	0.058455	35.835	0.040	6.401	1.214	10.855	0.000
10	0.052163	35.905	0.070	6.551	0.150	10.855	0.000
11	0.05038	35.905	0.000	7.043	0.492	10.855	0.000
12	0.048363	36.136	0.231	7.043	0.000	10.855	0.000
13	0.047887	36.146	0.010	7.173	0.130	10.855	0.000
14	0.045272	36.176	0.030	7.173	0.000	10.865	0.010
15	0.044051	36.176	0.000	7.173	0.000	11.336	0.472
16	0.043012	36.277	0.100	7.183	0.010	11.336	0.000
17	0.042913	36.317	0.040	7.183	0.000	11.377	0.040
18	0.042101	36.327	0.010	7.313	0.130	11.377	0.000
19	0.041656	36.347	0.020	7.344	0.030	11.397	0.020

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
20	0.039513	36.457	0.110	7.946	0.602	11.397	0.000
21	0.037714	38.022	1.565	8.066	0.120	11.407	0.010
22	0.034396	39.336	1.314	8.076	0.010	11.527	0.120
23	0.034008	39.447	0.110	8.086	0.010	11.637	0.110
24	0.033278	39.838	0.391	8.096	0.010	11.708	0.070
25	0.031341	42.988	3.150	8.136	0.040	11.718	0.010
26	0.031071	55.508	12.520	8.307	0.171	11.748	0.030
27	0.030606	57.465	1.956	8.367	0.060	11.828	0.080
28	0.030129	57.565	0.100	8.387	0.020	11.898	0.070
29	0.029689	57.595	0.030	8.397	0.010	11.898	0.000
30	0.029389	57.786	0.191	8.397	0.000	11.958	0.060
31	0.029226	58.016	0.231	8.397	0.000	12.029	0.070
32	0.02863	67.577	9.561	8.608	0.211	12.681	0.652
33	0.028413	81.060	13.483	8.879	0.271	12.811	0.130
34	0.027698	82.304	1.244	8.899	0.020	12.851	0.040
35	0.027066	82.706	0.401	8.899	0.000	12.851	0.000
36	0.026604	83.458	0.752	8.939	0.040	12.861	0.010
37	0.026205	83.468	0.010	8.939	0.000	12.861	0.000
38	0.025684	83.538	0.070	8.969	0.030	13.192	0.331
39	0.025069	83.669	0.130	8.989	0.020	13.202	0.010
40	0.024853	83.859	0.191	8.989	0.000	13.222	0.020
41	0.02467	83.910	0.050	8.989	0.000	13.222	0.000
42	0.024294	84.572	0.662	9.561	0.572	13.263	0.040
43	0.024143	84.883	0.311	11.096	1.535	13.353	0.090
44	0.023762	85.103	0.221	11.226	0.130	13.353	0.000
45	0.023513	85.133	0.030	11.226	0.000	13.373	0.020
46	0.023387	85.154	0.020	11.226	0.000	13.373	0.000
47	0.02268	85.324	0.171	11.266	0.040	13.373	0.000
48	0.021897	85.384	0.060	11.657	0.391	13.413	0.040
49	0.02161	85.956	0.572	11.828	0.171	13.413	0.000
50	0.021216	86.307	0.351	11.908	0.080	13.423	0.010
51	0.020657	86.327	0.020	11.908	0.000	13.423	0.000
52	0.020378	86.327	0.000	12.310	0.401	13.423	0.000
53	0.02018	86.327	0.000	12.360	0.050	13.453	0.030
54	0.020089	86.347	0.020	12.380	0.020	13.744	0.291
55	0.019727	86.367	0.020	12.400	0.020	13.784	0.040
56	0.01935	86.367	0.000	12.400	0.000	14.216	0.431
57	0.018878	86.388	0.020	12.400	0.000	14.216	0.000
58	0.01875	86.458	0.070	12.400	0.000	14.216	0.000
59	0.018165	86.458	0.000	12.420	0.020	14.246	0.030
60	0.017664	86.468	0.010	12.490	0.070	14.276	0.030
61	0.017248	86.478	0.010	13.313	0.823	14.276	0.000
62	0.017045	86.488	0.010	13.323	0.010	14.276	0.000
63	0.016873	86.508	0.020	13.483	0.161	14.276	0.000
64	0.016771	86.538	0.030	13.744	0.261	14.276	0.000
65	0.01673	86.548	0.010	13.975	0.231	14.276	0.000
66	0.016645	86.548	0.000	14.346	0.371	14.276	0.000
67	0.0159	86.588	0.040	14.346	0.000	14.306	0.030
68	0.015815	86.638	0.050	14.396	0.050	14.306	0.000
69	0.01561	86.699	0.060	14.436	0.040	14.396	0.090
70	0.015355	86.719	0.020	14.928	0.492	14.406	0.010
71	0.01505	86.749	0.030	15.008	0.080	14.416	0.010
72	0.014897	86.839	0.090	15.099	0.090	14.416	0.000
73	0.0148	86.839	0.000	15.480	0.381	14.507	0.090
74	0.014594	86.849	0.010	15.480	0.000	14.517	0.010
75	0.014524	86.849	0.000	15.480	0.000	14.527	0.010
76	0.014335	86.859	0.010	15.961	0.482	14.687	0.161
77	0.014205	86.859	0.000	16.082	0.120	14.687	0.000
78	0.014169	86.869	0.010	16.302	0.221	14.707	0.020
79	0.013976	86.869	0.000	16.302	0.000	14.707	0.000
80	0.01372	86.869	0.000	16.363	0.060	14.757	0.050
81	0.01362	86.869	0.000	16.413	0.050	14.757	0.000
82	0.013516	87.010	0.140	18.710	2.297	14.767	0.010
83	0.013378	87.020	0.010	19.894	1.184	14.767	0.000
84	0.013146	87.030	0.010	20.064	0.171	15.028	0.261
85	0.01301	87.230	0.201	21.298	1.234	15.028	0.000
86	0.012932	87.401	0.171	21.399	0.100	15.048	0.020
87	0.012782	87.682	0.281	54.736	33.337	15.169	0.120
88	0.012614	87.772	0.090	66.734	11.999	15.189	0.020
89	0.012489	88.745	0.973	84.742	18.008	15.219	0.030
90	0.012432	88.775	0.030	84.772	0.030	15.399	0.181
91	0.012244	88.795	0.020	84.772	0.000	15.420	0.020
92	0.012012	89.086	0.291	85.093	0.321	15.420	0.000
93	0.011632	89.086	0.000	85.234	0.140	15.450	0.030

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
94	0.011585	89.136	0.050	85.234	0.000	15.610	0.161
95	0.011293	89.136	0.000	85.414	0.181	15.630	0.020
96	0.011054	89.156	0.020	85.414	0.000	15.630	0.000
97	0.011014	89.156	0.000	85.424	0.010	15.640	0.010
98	0.010928	89.156	0.000	85.475	0.050	15.700	0.060
99	0.01088	89.176	0.020	85.505	0.030	15.721	0.020
100	0.010736	89.267	0.090	85.505	0.000	15.751	0.030
101	0.010452	89.267	0.000	85.525	0.020	15.751	0.000
102	0.010415	89.277	0.010	85.535	0.010	15.751	0.000
103	0.010245	89.287	0.010	85.535	0.000	15.751	0.000
104	0.010176	89.287	0.000	85.555	0.020	15.751	0.000
105	0.010123	89.337	0.050	85.555	0.000	15.791	0.040
106	0.010049	89.407	0.070	85.565	0.010	15.861	0.070
107	0.0098657	89.417	0.010	85.565	0.000	15.881	0.020
108	0.0098332	89.417	0.000	85.605	0.040	15.901	0.020
109	0.0098091	89.417	0.000	85.605	0.000	15.901	0.000
110	0.0097252	89.427	0.010	85.605	0.000	15.911	0.010
111	0.0096516	89.427	0.000	85.615	0.010	15.961	0.050
112	0.0096159	89.437	0.010	85.615	0.000	15.961	0.000
113	0.0095508	89.457	0.020	85.615	0.000	15.961	0.000
114	0.0095068	89.467	0.010	85.625	0.010	15.971	0.010
115	0.0092607	89.467	0.000	85.635	0.010	15.971	0.000
116	0.009235	89.467	0.000	85.635	0.000	16.021	0.050
117	0.0091464	89.477	0.010	85.725	0.090	16.032	0.010
118	0.0089971	89.488	0.010	85.806	0.080	16.042	0.010
119	0.0089665	89.488	0.000	85.806	0.000	16.052	0.010
120	0.008848	89.488	0.000	85.816	0.010	16.102	0.050
121	0.0087676	89.548	0.060	85.856	0.040	16.112	0.010
122	0.0086252	90.731	1.184	86.357	0.502	16.122	0.010
123	0.0085696	90.872	0.140	86.438	0.080	16.132	0.010
124	0.0084984	91.303	0.431	86.518	0.080	16.322	0.191
125	0.0084344	91.323	0.020	86.648	0.130	16.332	0.010
126	0.0083878	91.474	0.150	86.668	0.020	16.343	0.010
127	0.0083246	91.514	0.040	86.678	0.010	16.343	0.000
128	0.0082619	91.514	0.000	86.699	0.020	16.353	0.010
129	0.0081521	91.514	0.000	86.699	0.000	16.373	0.020
130	0.0080866	91.524	0.010	86.709	0.010	16.443	0.070
131	0.0079885	91.664	0.140	86.859	0.150	16.443	0.000
132	0.0079736	91.725	0.060	86.949	0.090	16.443	0.000
133	0.0077909	91.735	0.010	86.949	0.000	16.443	0.000
134	0.0076916	91.765	0.030	86.979	0.030	16.453	0.010
135	0.0076415	91.775	0.010	86.989	0.010	16.453	0.000
136	0.0075482	91.775	0.000	86.989	0.000	16.583	0.130
137	0.0074595	91.775	0.000	87.040	0.050	17.185	0.602
138	0.0073583	91.795	0.020	87.040	0.000	17.306	0.120
139	0.0072994	91.805	0.010	87.040	0.000	17.486	0.181
140	0.0072802	91.845	0.040	87.040	0.000	17.506	0.020
141	0.0071497	91.855	0.010	87.040	0.000	17.526	0.020
142	0.0071316	91.895	0.040	87.040	0.000	17.597	0.070
143	0.0071138	91.905	0.010	87.040	0.000	17.737	0.140
144	0.0070864	92.587	0.682	87.040	0.000	17.787	0.050
145	0.0070491	92.678	0.090	87.040	0.000	17.807	0.020
146	0.0070196	92.678	0.000	87.040	0.000	17.958	0.150
147	0.0069097	92.678	0.000	87.060	0.020	18.038	0.080
148	0.0068508	92.738	0.060	87.060	0.000	18.058	0.020
149	0.0067831	92.798	0.060	87.110	0.050	18.068	0.010
150	0.0067367	92.848	0.050	87.150	0.040	18.078	0.010

Lancio n°2:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.13947	0.401	0.401	0.010	0.010	1.776	1.776
2	0.12639	30.177	29.776	0.010	0.000	1.796	0.020
3	0.10313	30.197	0.020	0.140	0.130	1.796	0.000
4	0.094986	30.197	0.000	0.150	0.010	1.796	0.000
5	0.083575	30.327	0.130	1.866	1.716	6.170	4.374
6	0.075936	31.902	1.575	2.177	0.311	9.360	3.190
7	0.070453	33.407	1.505	5.066	2.889	10.283	0.923
8	0.064099	35.895	2.488	5.177	0.110	10.293	0.010
9	0.058443	35.935	0.040	6.380	1.204	10.293	0.000
10	0.052216	36.016	0.080	6.511	0.130	10.303	0.010
11	0.050437	36.016	0.000	7.023	0.512	10.313	0.010
12	0.0482	36.337	0.321	7.023	0.000	10.313	0.000
13	0.04789	36.347	0.010	7.153	0.130	10.313	0.000

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
14	0.045262	36.347	0.000	7.153	0.000	10.313	0.000
15	0.04389	36.347	0.000	7.153	0.000	10.925	0.612
16	0.042986	36.457	0.110	7.173	0.020	10.935	0.010
17	0.042827	36.477	0.020	7.183	0.010	10.975	0.040
18	0.042027	36.497	0.020	7.273	0.090	10.985	0.010
19	0.0417	36.517	0.020	7.313	0.040	10.985	0.000
20	0.039537	36.638	0.120	7.925	0.612	10.995	0.010
21	0.037735	38.433	1.796	8.036	0.110	11.005	0.010
22	0.034339	39.898	1.465	8.046	0.010	11.166	0.161
23	0.033971	40.119	0.221	8.056	0.010	11.266	0.100
24	0.03337	40.781	0.662	8.066	0.010	11.316	0.050
25	0.031583	60.745	19.964	8.347	0.281	11.367	0.050
26	0.031205	61.558	0.813	8.347	0.000	11.367	0.000
27	0.030565	63.333	1.776	8.427	0.080	11.497	0.130
28	0.029691	63.364	0.030	8.437	0.010	11.497	0.000
29	0.029456	63.715	0.351	8.437	0.000	11.517	0.020
30	0.02939	66.132	2.418	8.447	0.010	11.557	0.040
31	0.02919	75.864	9.731	8.678	0.231	11.627	0.070
32	0.029081	80.719	4.856	8.798	0.120	11.718	0.090
33	0.027934	82.214	1.495	8.828	0.030	12.460	0.742
34	0.027291	82.254	0.040	8.838	0.010	12.530	0.070
35	0.027039	83.117	0.863	8.858	0.020	12.540	0.010
36	0.026511	83.137	0.020	8.858	0.000	12.540	0.000
37	0.026091	83.137	0.000	8.858	0.000	12.600	0.060
38	0.025598	83.167	0.030	8.868	0.010	12.972	0.371
39	0.025064	83.338	0.171	8.889	0.020	13.032	0.060
40	0.024894	83.528	0.191	8.889	0.000	13.032	0.000
41	0.024486	83.869	0.341	8.969	0.080	13.032	0.000
42	0.024292	84.130	0.261	9.009	0.040	13.132	0.100
43	0.024178	84.190	0.060	11.035	2.027	13.182	0.050
44	0.023793	84.190	0.000	11.186	0.150	13.182	0.000
45	0.023328	84.190	0.000	11.186	0.000	13.182	0.000
46	0.023041	85.083	0.893	11.186	0.000	13.182	0.000
47	0.022068	85.314	0.231	11.186	0.000	13.192	0.010
48	0.021884	85.334	0.020	11.778	0.592	13.353	0.161
49	0.021708	85.394	0.060	11.788	0.010	13.423	0.070
50	0.021115	85.565	0.171	11.858	0.070	13.544	0.120
51	0.020793	85.595	0.030	11.868	0.010	13.574	0.030
52	0.020574	85.595	0.000	11.868	0.000	13.574	0.000
53	0.020355	85.595	0.000	12.289	0.421	13.574	0.000
54	0.020169	85.595	0.000	12.310	0.020	13.574	0.000
55	0.019698	85.625	0.030	12.320	0.010	13.614	0.040
56	0.019068	85.625	0.000	12.320	0.000	13.644	0.030
57	0.018876	85.665	0.040	12.320	0.000	13.644	0.000
58	0.018746	85.735	0.070	12.320	0.000	13.644	0.000
59	0.017997	85.735	0.000	12.380	0.060	13.664	0.020
60	0.017587	85.735	0.000	12.400	0.020	13.824	0.161
61	0.017247	85.735	0.000	13.152	0.752	13.824	0.000
62	0.016877	85.786	0.050	13.353	0.201	13.824	0.000
63	0.016824	85.806	0.020	13.694	0.341	13.844	0.020
64	0.016731	85.816	0.010	13.744	0.050	13.855	0.010
65	0.016729	85.816	0.000	13.985	0.241	13.865	0.010
66	0.016616	85.826	0.010	14.276	0.291	13.875	0.010
67	0.015817	85.866	0.040	14.296	0.020	13.935	0.060
68	0.015739	85.866	0.000	14.296	0.000	13.955	0.020
69	0.015646	85.906	0.040	14.316	0.020	14.075	0.120
70	0.015397	85.916	0.010	14.798	0.482	14.085	0.010
71	0.014948	85.986	0.070	14.858	0.060	14.085	0.000
72	0.014856	86.026	0.040	15.259	0.401	14.085	0.000
73	0.014774	86.046	0.020	15.420	0.161	14.095	0.010
74	0.014644	86.046	0.000	15.440	0.020	14.176	0.080
75	0.014482	86.067	0.020	15.570	0.130	14.176	0.000
76	0.014276	86.067	0.000	15.891	0.321	14.206	0.030
77	0.014175	86.087	0.020	16.353	0.461	14.206	0.000
78	0.014051	86.087	0.000	16.353	0.000	14.246	0.040
79	0.013767	86.097	0.010	16.373	0.020	14.256	0.010
80	0.013617	86.117	0.020	16.573	0.201	14.326	0.070
81	0.013583	86.197	0.080	17.586	1.013	14.677	0.351
82	0.013459	86.287	0.090	19.021	1.435	14.958	0.281
83	0.013361	86.297	0.010	20.215	1.194	14.968	0.010
84	0.013298	86.297	0.000	20.335	0.120	15.088	0.120
85	0.01302	86.317	0.020	21.730	1.394	15.149	0.060
86	0.012844	86.368	0.050	45.025	23.295	15.349	0.201
87	0.012818	86.528	0.161	46.309	1.284	15.349	0.000

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
88	0.012629	86.578	0.050	77.639	31.331	15.349	0.000
89	0.012492	86.628	0.050	77.991	0.351	15.399	0.050
90	0.012329	88.223	1.595	83.558	5.568	15.420	0.020
91	0.012147	88.524	0.301	84.471	0.913	15.420	0.000
92	0.012013	89.086	0.562	85.073	0.602	15.420	0.000
93	0.011669	89.086	0.000	85.204	0.130	15.450	0.030
94	0.011557	89.116	0.030	85.214	0.010	15.670	0.221
95	0.011126	89.126	0.010	85.234	0.020	15.721	0.050
96	0.011047	89.146	0.020	85.234	0.000	15.721	0.000
97	0.011027	89.146	0.000	85.234	0.000	15.721	0.000
98	0.010943	89.177	0.030	85.244	0.010	15.761	0.040
99	0.010773	89.197	0.020	85.324	0.080	15.781	0.020
100	0.010626	89.197	0.000	85.384	0.060	15.791	0.010
101	0.010518	89.207	0.010	85.384	0.000	15.821	0.030
102	0.010373	89.207	0.000	85.394	0.010	15.831	0.010
103	0.010254	89.217	0.010	85.394	0.000	15.831	0.000
104	0.010146	89.247	0.030	85.394	0.000	15.851	0.020
105	0.010111	89.247	0.000	85.394	0.000	15.861	0.010
106	0.010046	89.377	0.130	85.404	0.010	15.871	0.010
107	0.0098613	89.387	0.010	85.455	0.050	15.871	0.000
108	0.0097359	89.397	0.010	85.455	0.000	15.881	0.010
109	0.0096951	89.397	0.000	85.455	0.000	15.891	0.010
110	0.0096646	89.407	0.010	85.455	0.000	15.901	0.010
111	0.0096251	89.417	0.010	85.455	0.000	15.911	0.010
112	0.0095609	89.427	0.010	85.455	0.000	15.921	0.010
113	0.0095337	89.427	0.000	85.455	0.000	15.931	0.010
114	0.0094822	89.427	0.000	85.465	0.010	15.931	0.000
115	0.0094133	89.447	0.020	85.465	0.000	15.961	0.030
116	0.0092729	89.457	0.010	85.535	0.070	16.052	0.090
117	0.0091744	89.457	0.000	85.555	0.020	16.132	0.080
118	0.0090888	89.508	0.050	85.786	0.231	16.152	0.020
119	0.0089301	89.508	0.000	85.786	0.000	16.192	0.040
120	0.0087962	89.598	0.090	85.866	0.080	16.202	0.010
121	0.0087434	89.738	0.140	85.936	0.070	16.212	0.010
122	0.0086711	90.049	0.311	86.046	0.110	16.212	0.000
123	0.0086608	91.213	1.164	86.468	0.421	16.242	0.030
124	0.0085346	91.263	0.050	86.488	0.020	16.292	0.050
125	0.008429	91.564	0.301	86.538	0.050	16.312	0.020
126	0.0083634	91.574	0.010	86.568	0.030	16.312	0.000
127	0.0082825	91.584	0.010	86.568	0.000	16.322	0.010
128	0.0082484	91.594	0.010	86.578	0.010	16.393	0.070
129	0.0081387	91.594	0.000	86.578	0.000	16.403	0.010
130	0.0081139	91.594	0.000	86.578	0.000	16.443	0.040
131	0.007993	91.755	0.161	86.799	0.221	16.443	0.000
132	0.007928	91.755	0.000	86.799	0.000	16.473	0.030
133	0.007773	91.765	0.010	86.809	0.010	16.473	0.000
134	0.0077591	91.785	0.020	86.809	0.000	16.513	0.040
135	0.0076477	91.785	0.000	86.819	0.010	16.513	0.000
136	0.0075976	91.785	0.000	86.829	0.010	16.543	0.030
137	0.0074704	91.785	0.000	86.829	0.000	16.603	0.060
138	0.0073773	91.825	0.040	86.839	0.010	16.633	0.030
139	0.0072632	91.835	0.010	86.839	0.000	16.664	0.030
140	0.0071883	91.855	0.020	86.839	0.000	16.734	0.070
141	0.0071486	92.317	0.461	86.839	0.000	16.734	0.000
142	0.0071172	92.347	0.030	86.839	0.000	16.734	0.000
143	0.0071018	92.527	0.181	86.839	0.000	16.965	0.231
144	0.0070272	92.537	0.010	86.839	0.000	17.225	0.261
145	0.0069957	92.537	0.000	86.849	0.010	17.657	0.431
146	0.0069711	92.537	0.000	86.849	0.000	17.657	0.000
147	0.0068918	92.608	0.070	86.849	0.000	17.767	0.110
148	0.0068555	92.728	0.120	86.869	0.020	17.767	0.000
149	0.0067409	92.738	0.010	86.979	0.110	17.767	0.000
150	0.0066811	92.738	0.000	86.979	0.000	17.847	0.080

Lancio n°3:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.14018	0.512	0.512	0.010	0.010	2.006	2.006
2	0.12634	30.137	29.625	0.010	0.000	2.016	0.010
3	0.10324	30.167	0.030	0.120	0.110	2.016	0.000
4	0.094918	30.167	0.000	0.130	0.010	2.027	0.010
5	0.085605	30.267	0.100	1.625	1.495	7.313	5.287
6	0.076191	31.872	1.605	2.057	0.431	9.611	2.297
7	0.070315	33.357	1.485	5.046	2.990	10.494	0.883

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
8	0.064093	35.855	2.498	5.157	0.110	10.504	0.010
9	0.058455	35.895	0.040	6.370	1.214	10.504	0.000
10	0.052474	35.956	0.060	6.411	0.040	10.524	0.020
11	0.050817	35.956	0.000	7.033	0.622	10.524	0.000
12	0.048175	36.267	0.311	7.033	0.000	10.524	0.000
13	0.047898	36.267	0.000	7.153	0.120	10.524	0.000
14	0.045144	36.277	0.010	7.153	0.000	10.534	0.010
15	0.044017	36.277	0.000	7.153	0.000	11.076	0.542
16	0.042974	36.397	0.120	7.153	0.000	11.096	0.020
17	0.042932	36.407	0.010	7.173	0.020	11.136	0.040
18	0.04204	36.417	0.010	7.303	0.130	11.136	0.000
19	0.041909	36.457	0.040	7.313	0.010	11.156	0.020
20	0.039539	36.567	0.110	7.915	0.602	11.166	0.010
21	0.037751	38.233	1.665	8.036	0.120	11.186	0.020
22	0.034635	38.985	0.752	8.046	0.010	11.537	0.351
23	0.033901	39.517	0.532	8.066	0.020	11.597	0.060
24	0.033467	40.239	0.722	8.076	0.010	11.647	0.050
25	0.031419	56.401	16.162	8.357	0.281	11.728	0.080
26	0.030653	59.782	3.381	8.397	0.040	11.888	0.161
27	0.030419	59.792	0.010	8.407	0.010	11.928	0.040
28	0.029698	59.842	0.050	8.407	0.000	11.948	0.020
29	0.029616	61.467	1.625	8.407	0.000	11.958	0.010
30	0.029579	62.049	0.582	8.447	0.040	12.269	0.311
31	0.029277	62.210	0.161	8.447	0.000	12.289	0.020
32	0.029146	71.811	9.601	8.728	0.281	12.550	0.261
33	0.028532	81.943	10.133	8.999	0.271	12.661	0.110
34	0.027152	82.896	0.953	9.019	0.020	12.661	0.000
35	0.026793	83.157	0.261	9.029	0.010	12.691	0.030
36	0.02668	83.157	0.000	9.029	0.000	12.781	0.090
37	0.026136	83.167	0.010	9.039	0.010	12.801	0.020
38	0.025735	83.187	0.020	9.059	0.020	13.112	0.311
39	0.025105	83.468	0.281	9.079	0.020	13.142	0.030
40	0.024873	83.639	0.171	9.079	0.000	13.142	0.000
41	0.024554	83.799	0.161	9.109	0.030	13.152	0.010
42	0.024316	84.491	0.692	9.210	0.100	13.212	0.060
43	0.024183	84.572	0.080	11.116	1.906	13.233	0.020
44	0.023778	84.692	0.120	11.286	0.171	13.233	0.000
45	0.023362	84.692	0.000	11.286	0.000	13.233	0.000
46	0.02268	84.913	0.221	11.286	0.000	13.233	0.000
47	0.022447	84.933	0.020	11.316	0.030	13.343	0.110
48	0.02195	85.244	0.311	11.397	0.080	13.503	0.161
49	0.021818	85.545	0.301	11.888	0.492	13.594	0.090
50	0.021263	85.755	0.211	11.968	0.080	13.774	0.181
51	0.020934	85.806	0.050	11.968	0.000	13.814	0.040
52	0.020485	85.826	0.020	11.999	0.030	13.814	0.000
53	0.020363	85.826	0.000	12.380	0.381	13.814	0.000
54	0.020161	85.826	0.000	12.400	0.020	13.824	0.010
55	0.01957	85.846	0.020	12.400	0.000	13.824	0.000
56	0.019145	85.846	0.000	12.410	0.010	13.834	0.010
57	0.018889	85.876	0.030	12.410	0.000	13.844	0.010
58	0.018747	85.946	0.070	12.410	0.000	13.844	0.000
59	0.018352	85.946	0.000	12.460	0.050	14.035	0.191
60	0.017861	85.956	0.010	12.510	0.050	14.145	0.110
61	0.01723	85.966	0.010	13.373	0.863	14.145	0.000
62	0.016905	85.996	0.030	13.403	0.030	14.145	0.000
63	0.016838	86.026	0.030	13.965	0.562	14.166	0.020
64	0.016731	86.036	0.010	14.115	0.150	14.166	0.000
65	0.016611	86.046	0.010	14.296	0.181	14.186	0.020
66	0.016571	86.046	0.000	14.396	0.100	14.226	0.040
67	0.016072	86.046	0.000	14.446	0.050	14.466	0.241
68	0.015775	86.097	0.050	14.477	0.030	14.487	0.020
69	0.015426	86.147	0.050	14.517	0.040	14.487	0.000
70	0.015365	86.167	0.020	14.958	0.441	14.487	0.000
71	0.015016	86.187	0.020	15.159	0.201	14.487	0.000
72	0.014916	86.297	0.110	15.359	0.201	14.497	0.010
73	0.014781	86.307	0.010	15.440	0.080	14.527	0.030
74	0.014626	86.317	0.010	15.490	0.050	14.537	0.010
75	0.014471	86.317	0.000	15.580	0.090	14.537	0.000
76	0.014304	86.327	0.010	15.710	0.130	14.537	0.000
77	0.014185	86.347	0.020	15.951	0.241	14.537	0.000
78	0.014048	86.347	0.000	15.951	0.000	14.537	0.000
79	0.013966	86.347	0.000	15.971	0.020	14.547	0.010
80	0.013813	86.357	0.010	16.353	0.381	14.868	0.321
81	0.01366	86.478	0.120	17.576	1.224	15.179	0.311

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
82	0.013589	86.558	0.080	18.439	0.863	15.309	0.130
83	0.013455	86.608	0.050	19.131	0.692	15.530	0.221
84	0.013378	86.638	0.030	20.275	1.144	15.530	0.000
85	0.012903	86.658	0.020	24.077	3.802	15.560	0.030
86	0.012882	87.391	0.732	36.277	12.199	15.590	0.030
87	0.012668	88.123	0.732	69.684	33.407	15.610	0.020
88	0.012607	88.324	0.201	74.218	4.535	15.620	0.010
89	0.012471	88.434	0.110	79.375	5.157	15.630	0.010
90	0.012417	88.805	0.371	84.180	4.805	15.630	0.000
91	0.012284	88.855	0.050	84.772	0.592	15.630	0.000
92	0.01202	89.126	0.271	84.782	0.010	15.630	0.000
93	0.011774	89.146	0.020	85.093	0.311	15.731	0.100
94	0.011633	89.176	0.030	85.093	0.000	15.761	0.030
95	0.011248	89.176	0.000	85.123	0.030	15.771	0.010
96	0.011054	89.207	0.030	85.133	0.010	15.791	0.020
97	0.011015	89.207	0.000	85.133	0.000	15.801	0.010
98	0.010934	89.227	0.020	85.194	0.060	15.891	0.090
99	0.010729	89.297	0.070	85.194	0.000	15.901	0.010
100	0.010638	89.297	0.000	85.264	0.070	15.941	0.040
101	0.010474	89.297	0.000	85.274	0.010	15.951	0.010
102	0.010369	89.297	0.000	85.284	0.010	15.951	0.000
103	0.010247	89.307	0.010	85.284	0.000	15.951	0.000
104	0.010175	89.317	0.010	85.284	0.000	16.001	0.050
105	0.010073	89.457	0.140	85.314	0.030	16.001	0.000
106	0.0099936	89.457	0.000	85.324	0.010	16.011	0.010
107	0.009906	89.457	0.000	85.334	0.010	16.021	0.010
108	0.0098193	89.457	0.000	85.404	0.070	16.021	0.000
109	0.0097515	89.457	0.000	85.404	0.000	16.021	0.000
110	0.009716	89.457	0.000	85.404	0.000	16.021	0.000
111	0.0096973	89.467	0.010	85.404	0.000	16.021	0.000
112	0.0096279	89.477	0.010	85.404	0.000	16.021	0.000
113	0.0095573	89.477	0.000	85.404	0.000	16.021	0.000
114	0.0095178	89.498	0.020	85.404	0.000	16.021	0.000
115	0.0093425	89.518	0.020	85.414	0.010	16.021	0.000
116	0.009294	89.518	0.000	85.424	0.010	16.021	0.000
117	0.0091261	89.538	0.020	85.555	0.130	16.032	0.010
118	0.0090522	89.538	0.000	85.555	0.000	16.072	0.040
119	0.0089203	89.548	0.010	85.705	0.150	16.082	0.010
120	0.0088494	89.548	0.000	85.705	0.000	16.142	0.060
121	0.0086958	89.548	0.000	85.705	0.000	16.152	0.010
122	0.0086579	90.772	1.224	86.277	0.572	16.162	0.010
123	0.0086181	91.163	0.391	86.488	0.211	16.232	0.070
124	0.0084826	91.223	0.060	86.498	0.010	16.302	0.070
125	0.0084247	91.474	0.251	86.618	0.120	16.332	0.030
126	0.0083782	91.504	0.030	86.658	0.040	16.343	0.010
127	0.0083048	91.534	0.030	86.658	0.000	16.483	0.140
128	0.008288	91.544	0.010	86.658	0.000	16.483	0.000
129	0.0081397	91.544	0.000	86.658	0.000	16.483	0.000
130	0.0080843	91.544	0.000	86.658	0.000	16.503	0.020
131	0.0079861	91.725	0.181	86.899	0.241	16.503	0.000
132	0.0079168	91.725	0.000	86.899	0.000	16.523	0.020
133	0.0077999	91.725	0.000	86.899	0.000	16.523	0.000
134	0.0077518	91.765	0.040	86.909	0.010	16.523	0.000
135	0.0076618	91.775	0.010	86.919	0.010	16.563	0.040
136	0.0076239	91.775	0.000	86.929	0.010	16.613	0.050
137	0.0074585	91.785	0.010	86.929	0.000	16.784	0.171
138	0.0073833	91.825	0.040	86.949	0.020	16.804	0.020
139	0.0073457	91.835	0.010	86.949	0.000	16.914	0.110
140	0.0071837	91.835	0.000	86.959	0.010	17.125	0.211
141	0.0071436	92.016	0.181	86.959	0.000	17.135	0.010
142	0.0071067	92.106	0.090	86.959	0.000	17.135	0.000
143	0.0070876	92.537	0.431	86.959	0.000	17.416	0.281
144	0.0070641	92.557	0.020	86.959	0.000	17.496	0.080
145	0.0070429	92.598	0.040	86.959	0.000	17.576	0.080
146	0.0070414	92.608	0.010	86.959	0.000	17.908	0.331
147	0.006872	92.658	0.050	86.959	0.000	17.928	0.020
148	0.0068519	92.788	0.130	87.030	0.070	17.928	0.000
149	0.00676	92.798	0.010	87.030	0.000	17.938	0.010
150	0.0066492	92.868	0.070	87.030	0.000	18.068	0.130

Lancio n°4:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.14006	0.191	0.191	0.010	0.010	1.996	1.996

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
2	0.12651	30.117	29.926	0.020	0.010	2.037	0.040
3	0.10304	30.147	0.030	0.140	0.120	2.037	0.000
4	0.095113	30.147	0.000	0.150	0.010	2.047	0.010
5	0.08537	30.167	0.020	1.665	1.515	7.293	5.247
6	0.076146	32.063	1.896	2.087	0.421	9.611	2.317
7	0.070167	33.357	1.294	5.076	2.990	10.544	0.933
8	0.064127	35.855	2.498	5.177	0.100	10.554	0.010
9	0.058447	35.895	0.040	6.391	1.214	10.554	0.000
10	0.052279	35.966	0.070	6.481	0.090	10.564	0.010
11	0.050599	35.966	0.000	7.033	0.552	10.564	0.000
12	0.048234	36.256	0.291	7.033	0.000	10.564	0.000
13	0.047886	36.267	0.010	7.163	0.130	10.564	0.000
14	0.045273	36.277	0.010	7.163	0.000	10.564	0.000
15	0.043943	36.277	0.000	7.163	0.000	11.136	0.572
16	0.043051	36.377	0.100	7.173	0.010	11.146	0.010
17	0.042792	36.417	0.040	7.183	0.010	11.166	0.020
18	0.042091	36.427	0.010	7.303	0.120	11.176	0.010
19	0.041714	36.437	0.010	7.334	0.030	11.186	0.010
20	0.039513	36.557	0.120	7.935	0.602	11.186	0.000
21	0.037725	38.183	1.625	8.066	0.130	11.196	0.010
22	0.034245	39.908	1.726	8.086	0.020	11.196	0.000
23	0.034138	40.019	0.110	8.086	0.000	11.417	0.221
24	0.03325	40.239	0.221	8.086	0.000	11.467	0.050
25	0.031287	57.515	17.275	8.267	0.181	11.507	0.040
26	0.030681	60.254	2.739	8.287	0.020	11.577	0.070
27	0.030519	60.364	0.110	8.377	0.090	11.637	0.060
28	0.029829	61.126	0.762	8.377	0.000	11.698	0.060
29	0.02969	61.146	0.020	8.387	0.010	11.708	0.010
30	0.029407	61.297	0.150	8.387	0.000	11.778	0.070
31	0.029228	61.387	0.090	8.397	0.010	11.868	0.090
32	0.028715	77.288	15.901	8.718	0.321	12.119	0.251
33	0.028408	82.314	5.026	8.788	0.070	12.590	0.472
34	0.027272	82.595	0.281	8.788	0.000	12.600	0.010
35	0.027076	83.458	0.863	8.798	0.010	12.611	0.010
36	0.02686	83.528	0.070	8.798	0.000	12.651	0.040
37	0.02613	83.528	0.000	8.798	0.000	12.671	0.020
38	0.02558	83.629	0.100	8.808	0.010	13.012	0.341
39	0.025035	83.709	0.080	8.818	0.010	13.032	0.020
40	0.024878	83.940	0.231	8.818	0.000	13.042	0.010
41	0.024568	84.180	0.241	8.838	0.020	13.042	0.000
42	0.024332	84.642	0.461	8.929	0.090	13.082	0.040
43	0.024186	84.702	0.060	11.025	2.097	13.132	0.050
44	0.023743	84.772	0.070	11.156	0.130	13.152	0.020
45	0.023354	84.772	0.000	11.156	0.000	13.152	0.000
46	0.022897	84.873	0.100	11.156	0.000	13.192	0.040
47	0.022807	85.033	0.161	11.166	0.010	13.192	0.000
48	0.021919	85.735	0.702	11.427	0.261	13.192	0.000
49	0.021683	85.846	0.110	11.778	0.351	13.303	0.110
50	0.021177	86.066	0.221	11.828	0.050	13.363	0.060
51	0.020708	86.066	0.000	11.828	0.000	13.373	0.010
52	0.020382	86.066	0.000	12.269	0.441	13.373	0.000
53	0.020175	86.066	0.000	12.300	0.030	13.373	0.000
54	0.019816	86.107	0.040	12.300	0.000	13.383	0.010
55	0.019697	86.107	0.000	12.310	0.010	13.664	0.281
56	0.019107	86.107	0.000	12.310	0.000	13.694	0.030
57	0.018872	86.127	0.020	12.310	0.000	13.694	0.000
58	0.018749	86.197	0.070	12.310	0.000	13.694	0.000
59	0.018162	86.197	0.000	12.310	0.000	13.905	0.211
60	0.017579	86.197	0.000	12.400	0.090	13.955	0.050
61	0.017259	86.197	0.000	13.002	0.602	13.955	0.000
62	0.017051	86.227	0.030	13.343	0.341	13.955	0.000
63	0.016834	86.257	0.030	13.433	0.090	13.955	0.000
64	0.016773	86.277	0.020	13.614	0.181	13.955	0.000
65	0.016722	86.277	0.000	14.065	0.451	13.955	0.000
66	0.016554	86.277	0.000	14.236	0.171	13.955	0.000
67	0.01619	86.317	0.040	14.256	0.020	13.965	0.010
68	0.0158	86.367	0.050	14.256	0.000	13.965	0.000
69	0.015412	86.367	0.000	14.818	0.562	13.965	0.000
70	0.015299	86.418	0.050	14.858	0.040	14.015	0.050
71	0.014911	86.508	0.090	14.898	0.040	14.045	0.030
72	0.014841	86.508	0.000	15.410	0.512	14.065	0.020
73	0.0148	86.528	0.020	15.430	0.020	14.145	0.080
74	0.014588	86.528	0.000	15.520	0.090	14.155	0.010
75	0.01444	86.538	0.010	15.630	0.110	14.155	0.000

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
76	0.014322	86.538	0.000	16.192	0.562	14.155	0.000
77	0.014225	86.548	0.010	17.005	0.813	14.166	0.010
78	0.014138	86.558	0.010	17.045	0.040	14.166	0.000
79	0.013911	86.558	0.000	17.115	0.070	14.166	0.000
80	0.013822	86.558	0.000	17.115	0.000	14.637	0.472
81	0.013614	86.558	0.000	17.125	0.010	14.637	0.000
82	0.013523	86.668	0.110	18.700	1.575	14.647	0.010
83	0.013416	86.688	0.020	20.767	2.067	14.677	0.030
84	0.013287	86.688	0.000	21.128	0.361	14.767	0.090
85	0.013041	86.869	0.181	35.645	14.517	14.767	0.000
86	0.012904	86.919	0.050	38.112	2.468	14.767	0.000
87	0.012765	86.919	0.000	62.832	24.719	14.838	0.070
88	0.012608	87.070	0.150	62.832	0.000	14.858	0.020
89	0.012372	87.521	0.451	68.480	5.648	14.948	0.090
90	0.012253	88.454	0.933	82.324	13.844	15.068	0.120
91	0.012143	88.454	0.000	82.946	0.622	15.088	0.020
92	0.012001	89.016	0.562	85.214	2.267	15.088	0.000
93	0.011854	89.046	0.030	85.334	0.120	15.359	0.271
94	0.011606	89.066	0.020	85.465	0.130	15.379	0.020
95	0.011118	89.086	0.020	85.465	0.000	15.470	0.090
96	0.011068	89.116	0.030	85.505	0.040	15.480	0.010
97	0.011028	89.116	0.000	85.515	0.010	15.490	0.010
98	0.010956	89.136	0.020	85.545	0.030	15.530	0.040
99	0.010787	89.197	0.060	85.635	0.090	15.610	0.080
100	0.010673	89.197	0.000	85.635	0.000	15.610	0.000
101	0.010414	89.217	0.020	85.645	0.010	15.620	0.010
102	0.010333	89.227	0.010	85.665	0.020	15.731	0.110
103	0.010244	89.237	0.010	85.665	0.000	15.731	0.000
104	0.010136	89.237	0.000	85.675	0.010	15.841	0.110
105	0.010091	89.357	0.120	85.675	0.000	15.841	0.000
106	0.0099367	89.357	0.000	85.685	0.010	15.841	0.000
107	0.009838	89.377	0.020	85.695	0.010	15.841	0.000
108	0.0097958	89.377	0.000	85.705	0.010	15.861	0.020
109	0.0097466	89.377	0.000	85.705	0.000	15.861	0.000
110	0.0097023	89.387	0.010	85.705	0.000	15.861	0.000
111	0.0096498	89.387	0.000	85.705	0.000	15.861	0.000
112	0.0096125	89.397	0.010	85.705	0.000	15.861	0.000
113	0.0095607	89.397	0.000	85.705	0.000	15.861	0.000
114	0.0095169	89.417	0.020	85.705	0.000	15.871	0.010
115	0.0092997	89.417	0.000	85.725	0.020	15.881	0.010
116	0.0092199	89.417	0.000	85.725	0.000	16.032	0.150
117	0.0091372	89.417	0.000	85.776	0.050	16.052	0.020
118	0.0090801	89.447	0.030	85.896	0.120	16.122	0.070
119	0.0088695	89.518	0.070	85.976	0.080	16.132	0.010
120	0.0088228	89.518	0.000	85.976	0.000	16.142	0.010
121	0.0087581	89.518	0.000	85.976	0.000	16.152	0.010
122	0.0086578	90.752	1.234	86.398	0.421	16.152	0.000
123	0.0086119	90.872	0.120	86.418	0.020	16.182	0.030
124	0.0085332	91.374	0.502	86.568	0.150	16.212	0.030
125	0.0084009	91.544	0.171	86.578	0.010	16.232	0.020
126	0.0083348	91.574	0.030	86.618	0.040	16.242	0.010
127	0.0082951	91.574	0.000	86.628	0.010	16.262	0.020
128	0.008264	91.574	0.000	86.638	0.010	16.272	0.010
129	0.0081458	91.574	0.000	86.638	0.000	16.282	0.010
130	0.0080814	91.584	0.010	86.638	0.000	16.363	0.080
131	0.007993	91.775	0.191	86.859	0.221	16.363	0.000
132	0.0079731	91.775	0.000	86.859	0.000	16.373	0.010
133	0.0078379	91.785	0.010	86.859	0.000	16.373	0.000
134	0.0077402	91.795	0.010	86.859	0.000	16.373	0.000
135	0.0077291	91.795	0.000	86.859	0.000	16.373	0.000
136	0.0076634	91.795	0.000	86.889	0.030	16.373	0.000
137	0.0074999	91.805	0.010	86.899	0.010	16.453	0.080
138	0.0074064	91.805	0.000	86.929	0.030	17.005	0.552
139	0.0073497	91.865	0.060	86.929	0.000	17.306	0.301
140	0.0071623	91.965	0.100	86.929	0.000	17.336	0.030
141	0.0071383	92.116	0.150	86.929	0.000	17.346	0.010
142	0.0071142	92.397	0.281	86.929	0.000	17.406	0.060
143	0.0071064	92.577	0.181	86.929	0.000	17.496	0.090
144	0.0070877	92.587	0.010	86.929	0.000	17.597	0.100
145	0.0070446	92.587	0.000	86.929	0.000	17.757	0.161
146	0.0069664	92.587	0.000	86.929	0.000	17.867	0.110
147	0.0068851	92.768	0.181	86.929	0.000	17.928	0.060
148	0.0067685	92.778	0.010	86.999	0.070	17.928	0.000
149	0.0067427	92.808	0.030	87.040	0.040	17.928	0.000

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
150	0.0066613	92.838	0.030	87.050	0.010	17.988	0.060

Lancio n°5:

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
1	0.14009	0.341	0.341	0.010	0.010	1.996	1.996
2	0.12643	30.137	29.796	0.020	0.010	2.016	0.020
3	0.10314	30.167	0.030	0.140	0.120	2.016	0.000
4	0.095013	30.167	0.000	0.150	0.010	2.027	0.010
5	0.085428	30.217	0.050	1.665	1.515	7.253	5.227
6	0.076137	31.973	1.756	2.077	0.411	9.581	2.327
7	0.070213	33.357	1.384	5.066	2.990	10.514	0.933
8	0.064109	35.855	2.498	5.167	0.100	10.524	0.010
9	0.05845	35.895	0.040	6.380	1.214	10.524	0.000
10	0.05229	35.966	0.070	6.471	0.090	10.534	0.010
11	0.05059	35.966	0.000	7.023	0.552	10.534	0.000
12	0.048247	36.256	0.291	7.023	0.000	10.534	0.000
13	0.047891	36.267	0.010	7.153	0.130	10.534	0.000
14	0.045266	36.277	0.010	7.153	0.000	10.544	0.010
15	0.043974	36.277	0.000	7.153	0.000	11.106	0.562
16	0.042999	36.387	0.110	7.173	0.020	11.106	0.000
17	0.042862	36.417	0.030	7.183	0.010	11.146	0.040
18	0.042062	36.427	0.010	7.303	0.120	11.146	0.000
19	0.041787	36.447	0.020	7.334	0.030	11.156	0.010
20	0.039525	36.567	0.120	7.935	0.602	11.166	0.010
21	0.037732	38.223	1.655	8.056	0.120	11.176	0.010
22	0.034358	39.557	1.334	8.066	0.010	11.336	0.161
23	0.034005	39.808	0.251	8.076	0.010	11.437	0.100
24	0.033343	40.269	0.461	8.086	0.010	11.497	0.060
25	0.031346	57.254	16.985	8.317	0.231	11.547	0.050
26	0.030684	59.912	2.659	8.327	0.010	11.597	0.050
27	0.03053	59.943	0.030	8.397	0.070	11.667	0.070
28	0.029893	60.855	0.913	8.397	0.000	11.698	0.030
29	0.02969	60.866	0.010	8.407	0.010	11.698	0.000
30	0.029414	60.876	0.010	8.407	0.000	11.768	0.070
31	0.029208	61.307	0.431	8.407	0.000	11.788	0.020
32	0.028855	78.703	17.396	8.818	0.411	12.079	0.291
33	0.028261	82.154	3.451	8.879	0.060	12.651	0.572
34	0.027248	82.505	0.351	8.879	0.000	12.691	0.040
35	0.027162	83.227	0.722	8.889	0.010	12.721	0.030
36	0.026902	83.408	0.181	8.889	0.000	12.721	0.000
37	0.026132	83.408	0.000	8.889	0.000	12.741	0.020
38	0.025634	83.458	0.050	8.909	0.020	13.082	0.341
39	0.025063	83.609	0.150	8.929	0.020	13.112	0.030
40	0.024874	83.809	0.201	8.929	0.000	13.122	0.010
41	0.024584	84.000	0.191	8.949	0.020	13.122	0.000
42	0.024299	84.481	0.482	9.230	0.281	13.182	0.060
43	0.024167	84.642	0.161	11.045	1.816	13.253	0.070
44	0.023782	84.692	0.050	11.196	0.150	13.253	0.000
45	0.023359	84.692	0.000	11.196	0.000	13.253	0.000
46	0.022933	84.722	0.030	11.196	0.000	13.263	0.010
47	0.022824	84.953	0.231	11.196	0.000	13.263	0.000
48	0.021932	85.725	0.772	11.316	0.120	13.263	0.000
49	0.021839	85.725	0.000	11.828	0.512	13.363	0.100
50	0.021176	85.976	0.251	11.888	0.060	13.423	0.060
51	0.02065	85.976	0.000	11.888	0.000	13.433	0.010
52	0.020405	85.976	0.000	12.239	0.351	13.493	0.060
53	0.020263	85.976	0.000	12.320	0.080	13.704	0.211
54	0.02016	85.976	0.000	12.340	0.020	13.764	0.060
55	0.019702	86.016	0.040	12.340	0.000	13.764	0.000
56	0.019117	86.016	0.000	12.350	0.010	13.774	0.010
57	0.01888	86.046	0.030	12.350	0.000	13.774	0.000
58	0.018748	86.117	0.070	12.350	0.000	13.774	0.000
59	0.018251	86.117	0.000	12.370	0.020	13.995	0.221
60	0.01774	86.117	0.000	12.450	0.080	14.065	0.070
61	0.017249	86.117	0.000	13.222	0.772	14.065	0.000
62	0.016904	86.127	0.010	13.222	0.000	14.065	0.000
63	0.016839	86.187	0.060	13.714	0.492	14.065	0.000
64	0.016763	86.187	0.000	13.744	0.030	14.075	0.010
65	0.01673	86.197	0.010	13.965	0.221	14.075	0.000
66	0.016629	86.197	0.000	14.306	0.341	14.085	0.010
67	0.015917	86.267	0.070	14.316	0.010	14.115	0.030
68	0.015818	86.287	0.020	14.336	0.020	14.115	0.000
69	0.015654	86.317	0.030	14.366	0.030	14.246	0.130

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
70	0.015376	86.327	0.010	14.868	0.502	14.256	0.010
71	0.014945	86.408	0.080	14.968	0.100	14.266	0.010
72	0.014885	86.458	0.050	15.279	0.311	14.266	0.000
73	0.014737	86.458	0.000	15.420	0.140	14.336	0.070
74	0.014544	86.458	0.000	15.440	0.020	14.336	0.000
75	0.014515	86.468	0.010	15.450	0.010	14.346	0.010
76	0.014322	86.468	0.000	15.861	0.411	14.346	0.000
77	0.014189	86.488	0.020	16.322	0.461	14.346	0.000
78	0.014144	86.488	0.000	16.322	0.000	14.356	0.010
79	0.013939	86.488	0.000	16.343	0.020	14.356	0.000
80	0.013804	86.488	0.000	16.383	0.040	14.858	0.502
81	0.013624	86.508	0.020	16.603	0.221	14.868	0.010
82	0.013555	86.658	0.150	18.329	1.726	14.928	0.060
83	0.013395	86.689	0.030	19.894	1.565	14.998	0.070
84	0.01333	86.689	0.000	20.004	0.110	15.179	0.181
85	0.012986	86.789	0.100	23.144	3.140	15.189	0.010
86	0.012855	87.040	0.251	23.144	0.000	15.189	0.000
87	0.012813	87.130	0.090	47.733	24.589	15.339	0.150
88	0.012615	87.140	0.010	74.068	26.335	15.349	0.010
89	0.012483	87.441	0.301	74.539	0.472	15.440	0.090
90	0.012426	88.755	1.314	84.371	9.832	15.440	0.000
91	0.012218	88.775	0.020	84.692	0.321	15.440	0.000
92	0.012014	89.126	0.351	85.073	0.381	15.440	0.000
93	0.011686	89.126	0.000	85.274	0.201	15.560	0.120
94	0.011589	89.166	0.040	85.274	0.000	15.690	0.130
95	0.011123	89.177	0.010	85.364	0.090	15.751	0.060
96	0.011047	89.187	0.010	85.364	0.000	15.751	0.000
97	0.011007	89.187	0.000	85.414	0.050	15.751	0.000
98	0.010954	89.207	0.020	85.414	0.000	15.781	0.030
99	0.010811	89.257	0.050	85.424	0.010	15.801	0.020
100	0.010799	89.277	0.020	85.465	0.040	15.801	0.000
101	0.010443	89.297	0.020	85.475	0.010	15.841	0.040
102	0.01038	89.297	0.000	85.495	0.020	15.861	0.020
103	0.010246	89.307	0.010	85.495	0.000	15.861	0.000
104	0.01014	89.317	0.010	85.495	0.000	15.951	0.090
105	0.010083	89.437	0.120	85.505	0.010	15.951	0.000
106	0.0099687	89.447	0.010	85.515	0.010	15.951	0.000
107	0.0098719	89.447	0.000	85.515	0.000	15.951	0.000
108	0.0098399	89.457	0.010	85.565	0.050	15.951	0.000
109	0.0097472	89.457	0.000	85.565	0.000	15.951	0.000
110	0.0097016	89.467	0.010	85.565	0.000	15.951	0.000
111	0.0096591	89.467	0.000	85.575	0.010	15.951	0.000
112	0.0096036	89.477	0.010	85.575	0.000	15.951	0.000
113	0.0095872	89.477	0.000	85.575	0.000	15.951	0.000
114	0.0094971	89.498	0.020	85.575	0.000	15.951	0.000
115	0.0093325	89.498	0.000	85.575	0.000	15.981	0.030
116	0.0092671	89.498	0.000	85.605	0.030	15.991	0.010
117	0.0091735	89.498	0.000	85.625	0.020	16.072	0.080
118	0.0090943	89.528	0.030	85.776	0.150	16.102	0.030
119	0.0089144	89.528	0.000	85.786	0.010	16.102	0.000
120	0.0088545	89.528	0.000	85.806	0.020	16.172	0.070
121	0.0088319	89.578	0.050	85.876	0.070	16.192	0.020
122	0.0086567	89.708	0.130	85.896	0.020	16.192	0.000
123	0.0086492	91.022	1.314	86.448	0.552	16.202	0.010
124	0.0085891	91.163	0.140	86.558	0.110	16.292	0.090
125	0.0084482	91.574	0.411	86.598	0.040	16.332	0.040
126	0.0083829	91.574	0.000	86.678	0.080	16.343	0.010
127	0.0083217	91.574	0.000	86.678	0.000	16.393	0.050
128	0.0082821	91.594	0.020	86.678	0.000	16.413	0.020
129	0.0081405	91.594	0.000	86.678	0.000	16.423	0.010
130	0.0080738	91.594	0.000	86.678	0.000	16.483	0.060
131	0.0079889	91.785	0.191	86.909	0.231	16.483	0.000
132	0.0079029	91.795	0.010	86.909	0.000	16.543	0.060
133	0.0077984	91.795	0.000	86.919	0.010	16.543	0.000
134	0.0077266	91.825	0.030	86.929	0.010	16.543	0.000
135	0.007698	91.835	0.010	86.929	0.000	16.563	0.020
136	0.0076332	91.835	0.000	86.949	0.020	16.573	0.010
137	0.0074451	91.835	0.000	86.959	0.010	16.583	0.010
138	0.007373	91.855	0.020	86.969	0.010	16.643	0.060
139	0.0072225	91.875	0.020	86.969	0.000	16.854	0.211
140	0.0071797	91.895	0.020	86.989	0.020	17.065	0.211
141	0.0071398	92.166	0.271	86.989	0.000	17.225	0.161
142	0.0071095	92.166	0.000	86.989	0.000	17.235	0.010
143	0.0070977	92.577	0.411	86.989	0.000	17.757	0.522

n. Modo	Periodo (sec.)	Tot. X %	Parz. X %	Tot. Y %	Parz. Y %	Tot. Z %	Parz. Z %
144	0.0070891	92.608	0.030	86.989	0.000	17.817	0.060
145	0.0070417	92.608	0.000	86.989	0.000	17.867	0.050
146	0.0070174	92.618	0.010	86.999	0.010	17.948	0.080
147	0.0069374	92.618	0.000	86.999	0.000	17.998	0.050
148	0.0068534	92.808	0.191	87.040	0.040	18.018	0.020
149	0.0068024	92.828	0.020	87.040	0.000	18.018	0.000
150	0.0067385	92.868	0.040	87.120	0.080	18.018	0.000

2.16.10 Autovalori

Di seguito sono indicati gli autovalori trovati:

Lancio n°1:

numero autovalori: 150

n°	Autovalore
1	1990.42
2	2468.09
3	3709.25
4	4365.92
5	5150.82
6	6768.11
7	8040.79
8	9602.12
9	11553.4
10	14508.7
11	15554.1
12	16878.6
13	17215.6
14	19262.3
15	20344.2
16	21338.8
17	21438
18	22272.4
19	22751.7
20	25286
21	27756.5
22	33369.4
23	34134.7
24	35648.6
25	40191.4
26	40892.7
27	42145
28	43490.1
29	44787.5
30	45707.5
31	46217.6
32	48163.4
33	48901.8
34	51460.9
35	53891.1
36	55777.3
37	57490.2
38	59844.2
39	62817.6
40	63912.8
41	64864.7
42	66888.5
43	67731.5
44	69920.7
45	71408.1

n°	Autovalore
46	72180.6
47	76747.7
48	82339.3
49	84540
50	87708.1
51	92515.8
52	95065.4
53	96944.3
54	97826.7
55	101449
56	105433
57	110781
58	112300
59	119643
60	126528
61	132698
62	135891
63	138670
64	140360
65	141042
66	142487
67	156152
68	157843
69	162024
70	167440
71	174285
72	177902
73	180237
74	185354
75	187153
76	192114
77	195648
78	196648
79	202122
80	209720
81	212825
82	216117
83	220601
84	228457
85	233230
86	236048
87	241631
88	248125
89	253117
90	255450

n°	Autovalore
91	263341
92	273631
93	291800
94	294142
95	309538
96	323089
97	325428
98	330575
99	333497
100	342540
101	361382
102	363958
103	376142
104	381266
105	385270
106	390970
107	405604
108	408291
109	410303
110	417408
111	423799
112	426954
113	432794
114	436805
115	460336
116	462901
117	471913
118	487697
119	491042
120	504279
121	513573
122	530671
123	537580
124	546614
125	554952
126	561134
127	569678
128	578355
129	594053
130	603705
131	618630
132	620935
133	650399
134	667307
135	676087

n°	Autovalore
136	692907
137	709487
138	729133
139	740934
140	744867

n°	Autovalore
141	772307
142	776221
143	780110
144	786160
145	794504

n°	Autovalore
146	801198
147	826871
148	841149
149	858032
150	869903

Lancio n°2:

numero autovalori: 150

n°	Autovalore
1	2029.58
2	2471.18
3	3711.66
4	4375.59
5	5652.01
6	6846.42
7	7953.46
8	9608.65
9	11558.1
10	14479.3
11	15518.7
12	16992.9
13	17213.7
14	19270.3
15	20494.5
16	21365.2
17	21524.3
18	22350.9
19	22702.7
20	25255.7
21	27725.4
22	33480.2
23	34208.9
24	35451.5
25	39579
26	40542.1
27	42256.8
28	44782.3
29	45500.8
30	45703.4
31	46333.2
32	46681.5
33	50594.6
34	53004.8
35	53998.3
36	56168.8
37	57991.7
38	60249.3
39	62844.6
40	63704.8
41	65843.4
42	66900.7
43	67531.9
44	69737.4
45	72543
46	74362.8
47	81062
48	82432.5
49	83778.2

n°	Autovalore
50	88258
51	91315.4
52	93269.7
53	95279.2
54	97049.7
55	101743
56	108583
57	110805
58	112337
59	121883
60	127642
61	132714
62	138609
63	139472
64	141038
65	141072
66	142993
67	157792
68	159379
69	161264
70	166533
71	176691
72	178889
73	180867
74	184085
75	188240
76	193712
77	196465
78	199953
79	208304
80	212906
81	213976
82	217925
83	221156
84	223242
85	232880
86	239325
87	240275
88	247510
89	252992
90	259715
91	267581
92	273565
93	289934
94	295562
95	318924
96	323471
97	324669
98	329701

n°	Autovalore
99	340137
100	349650
101	356832
102	366900
103	375487
104	383510
105	386165
106	391176
107	405968
108	416492
109	420009
110	422659
111	426141
112	431875
113	434345
114	439081
115	445524
116	459120
117	469034
118	477914
119	495050
120	510237
121	516420
122	525066
123	526318
124	541996
125	555660
126	564408
127	575494
128	580262
129	595999
130	599649
131	617924
132	628112
133	653413
134	655756
135	674992
136	683921
137	707407
138	725381
139	748354
140	764035
141	772530
142	779367
143	782740
144	799446
145	806680
146	812367
147	831169

n°	Autovalore
148	839994

n°	Autovalore
149	868814

n°	Autovalore
150	884423

Lancio n°3:

numero autovalori: 150

n°	Autovalore
1	2009.1
2	2473.22
3	3703.97
4	4381.87
5	5387.12
6	6800.61
7	7984.89
8	9610.42
9	11553.5
10	14337.2
11	15287.4
12	17010.6
13	17207.9
14	19371.5
15	20375.7
16	21377.1
17	21418.9
18	22337.9
19	22476.9
20	25253.2
21	27702
22	32909.2
23	34350.2
24	35247.7
25	39992.2
26	42014.9
27	42663.9
28	44762.8
29	45010
30	45123
31	46059.3
32	46473.5
33	48493.9
34	53551.2
35	54995.8
36	55462.8
37	57792.3
38	59608.2
39	62639.3
40	63809.6
41	65483.5
42	66767.2
43	67505.9
44	69825.6
45	72333.3
46	76751.8
47	78350.4
48	81938.1
49	82934.6
50	87319.5
51	90084.5
52	94078.4

n°	Autovalore
53	95204.4
54	97123.2
55	103085
56	107705
57	110653
58	112336
59	117218
60	123752
61	132988
62	138147
63	139253
64	141034
65	143071
66	143762
67	152828
68	158648
69	165893
70	167222
71	175081
72	177443
73	180690
74	184547
75	188520
76	192953
77	196197
78	200046
79	202388
80	206901
81	211583
82	213783
83	218084
84	220574
85	237111
86	237915
87	246020
88	248405
89	253842
90	256048
91	261636
92	273262
93	284787
94	291702
95	312050
96	323101
97	325398
98	330230
99	342950
100	348872
101	359879
102	367198
103	375972
104	381354

n°	Autovalore
105	389086
106	395293
107	402308
108	409450
109	415165
110	418205
111	419815
112	425886
113	432209
114	435803
115	452309
116	457037
117	474008
118	481778
119	496137
120	504115
121	522083
122	526661
123	531535
124	548658
125	556231
126	562419
127	572407
128	574719
129	595862
130	604056
131	618998
132	629889
133	648908
134	656983
135	672508
136	679208
137	709674
138	724202
139	731625
140	765000
141	773620
142	781662
143	785882
144	791128
145	795900
146	796244
147	835972
148	840881
149	863916
150	892928

Lancio n°4:

numero autovalori: 150

n°	Autovalore
1	2012.45
2	2466.51
3	3718.34
4	4363.99
5	5416.91
6	6808.7
7	8018.49
8	9600.01
9	11556.9
10	14444.4
11	15419.6
12	16968.8
13	17216.5
14	19260.9
15	20444.4
16	21301
17	21559.4
18	22283.2
19	22688.5
20	25285.9
21	27739.8
22	33664
23	33875
24	35708
25	40330.5
26	41940.1
27	42384.6
28	44370.1
29	44786.6
30	45651.5
31	46211.8
32	47877.4
33	48917.8
34	53080.1
35	53850
36	54719.3
37	57822.2
38	60335.7
39	62988.4
40	63786.1
41	65408.9
42	66683.5
43	67487.4
44	70032.5
45	72381.5
46	75299.5
47	75896.8
48	82173.6
49	83971.4
50	88033.5
51	92061.5
52	95035.5

n°	Autovalore
53	96986.7
54	100539
55	101752
56	108133
57	110844
58	112308
59	119679
60	127759
61	132530
62	135790
63	139311
64	140334
65	141190
66	144068
67	150615
68	158145
69	166210
70	168676
71	177558
72	179236
73	180227
74	185498
75	189325
76	192466
77	195113
78	197504
79	204009
80	206640
81	213017
82	215878
83	219353
84	223603
85	232142
86	237086
87	242263
88	248358
89	257902
90	262940
91	267757
92	274123
93	280968
94	293073
95	319372
96	322275
97	324592
98	328901
99	339250
100	346561
101	364048
102	369747
103	376230
104	384254

n°	Autovalore
105	387732
106	399834
107	407893
108	411415
109	415578
110	419381
111	423955
112	427253
113	431901
114	435878
115	456481
116	464415
117	472863
118	478826
119	501835
120	507160
121	514685
122	526672
123	532312
124	542171
125	559382
126	568286
127	573738
128	578071
129	594963
130	604484
131	617925
132	621024
133	642621
134	658948
135	660848
136	672229
137	701861
138	719698
139	730844
140	769575
141	774770
142	780023
143	781727
144	785866
145	795519
146	813469
147	832788
148	861745
149	868348
150	889696

Lancio n°5:

numero autovalori: 150

n°	Autovalore
1	2011.49
2	2469.66
3	3711.33
4	4373.18
5	5409.56
6	6810.38
7	8007.96
8	9605.43
9	11555.6
10	14438.4
11	15425.3
12	16960
13	17213.1
14	19267.4
15	20415.6
16	21351.9
17	21488.9
18	22314.5
19	22608.3
20	25270.3
21	27729.2
22	33442.5
23	34140.8
24	35510.4
25	40177.8
26	41930.1
27	42354
28	44180.9
29	44787
30	45629.1
31	46274.8
32	47416.8
33	49428.5
34	53172.4
35	53509.3
36	54548.2
37	57809.4
38	60081.3
39	62847.1
40	63807.3
41	65320
42	66862.4
43	67595.4
44	69801.9
45	72349.6
46	75062.2
47	75783.6
48	82074.5
49	82771.2
50	88042.1
51	92582.9
52	94812.8

n°	Autovalore
53	96150.4
54	97131.5
55	101706
56	108021
57	110758
58	112323
59	118522
60	125442
61	132686
62	138167
63	139227
64	140497
65	141045
66	142770
67	155830
68	157782
69	161102
70	166986
71	176747
72	178180
73	181789
74	186642
75	187368
76	192477
77	196088
78	197337
79	203191
80	207180
81	212683
82	214859
83	220035
84	222163
85	234112
86	238894
87	240483
88	248066
89	253340
90	255662
91	264444
92	273499
93	289082
94	293933
95	319064
96	323491
97	325847
98	329035
99	337798
100	338501
101	362008
102	366379
103	376073
104	383983

n°	Autovalore
105	388287
106	397264
107	405097
108	407734
109	415528
110	419443
111	423141
112	428044
113	429510
114	437699
115	453280
116	459694
117	469125
118	477336
119	496788
120	503538
121	506114
122	526810
123	527720
124	535135
125	553132
126	561785
127	570074
128	575540
129	595738
130	605632
131	618573
132	632100
133	649149
134	661273
135	666192
136	677551
137	712225
138	726229
139	756801
140	765862
141	774444
142	781062
143	783644
144	785551
145	796166
146	801699
147	820280
148	840510
149	853169
150	869422

2.16.11 Periodi spettri utilizzati nelle verifiche

Nell'esecuzione delle verifiche, qual'ora queste li richiedano, i periodi degli spettri utilizzati sono, in secondi:

Periodi fondam. T_{1x} , T_{1y} , T_{1z} (per sisma in dir.x,y,z): 0.12651, 0.012668, 0.087547

Periodo Tc per sismi x, y: 0.480728

Periodo Tc per sismi z: 0.15

2.17 PESO TOTALE ASTE

Vengono qui indicate in base alla sezione utilizzata dalle aste (beam e truss) del modello i pesi propri totali:

Sezione = Nome della sezione usata

N° = Numero della sottosezione (0 = sezione base)

Lung = Lunghezza totale relativamente alla sezione usata

Peso = Peso totale relativamente alla sezione usata

Sezione	N°	Lung (cm)	Peso (N)
U	0	8531.7	11379
TOTALE		8531.7	11379

3. DESCRIZIONE DEI RISULTATI DI CALCOLO

Di seguito sono descritti i dati generati dal calcolo del modello.

3.1 SPOSTAMENTI NODALI

Per ciascuna Condizione di Carico Elementare Statica, Condizione Sismica, Combinazione di Carico per Analisi Non Lineare vengono riportati gli spostamenti e le rotazioni di ciascun nodo del modello.

Nodo = Numero del Nodo

CdC = Condizione di Carico (S = Statico, D = Dinamico, N = Non Lineare)

Sx = Spostamento del nodo in direzione globale X

Sy = Spostamento del nodo in direzione globale Y

Sz = Spostamento del nodo in direzione globale Z

Rx = Rotazione del nodo attorno all'asse globale X

Ry = Rotazione del nodo attorno all'asse globale Y

Rz = Rotazione del nodo attorno all'asse globale Z

Nodo 1						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.	0.	0.	0.	0.	0.
2S	0.	0.	0.	0.	0.	0.
1D	0.	0.	0.	0.	0.	0.
2D	0.	0.	0.	0.	0.	0.
3D	0.	0.	0.	0.	0.	0.
4D	0.	0.	0.	0.	0.	0.
5D	0.	0.	0.	0.	0.	0.
6D	0.	0.	0.	0.	0.	0.
7D	0.	0.	0.	0.	0.	0.
8D	0.	0.	0.	0.	0.	0.
9D	0.	0.	0.	0.	0.	0.
10D	0.	0.	0.	0.	0.	0.
11D	0.	0.	0.	0.	0.	0.
12D	0.	0.	0.	0.	0.	0.
13D	0.	0.	0.	0.	0.	0.
14D	0.	0.	0.	0.	0.	0.
15D	0.	0.	0.	0.	0.	0.
16D	0.	0.	0.	0.	0.	0.
17D	0.	0.	0.	0.	0.	0.
18D	0.	0.	0.	0.	0.	0.
19D	0.	0.	0.	0.	0.	0.
20D	0.	0.	0.	0.	0.	0.
Nodo 2						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.	0.	0.	0.	0.	0.
2S	0.	0.	0.	0.	0.	0.
1D	0.	0.	0.	0.	0.	0.
2D	0.	0.	0.	0.	0.	0.
3D	0.	0.	0.	0.	0.	0.
4D	0.	0.	0.	0.	0.	0.
5D	0.	0.	0.	0.	0.	0.
Nodo 3						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.	0.	0.	0.	0.	0.
2S	0.	0.	0.	0.	0.	0.
1D	0.	0.	0.	0.	0.	0.
2D	0.	0.	0.	0.	0.	0.
3D	0.	0.	0.	0.	0.	0.
4D	0.	0.	0.	0.	0.	0.
5D	0.	0.	0.	0.	0.	0.
6D	0.	0.	0.	0.	0.	0.
7D	0.	0.	0.	0.	0.	0.
8D	0.	0.	0.	0.	0.	0.
9D	0.	0.	0.	0.	0.	0.
10D	0.	0.	0.	0.	0.	0.
11D	0.	0.	0.	0.	0.	0.
12D	0.	0.	0.	0.	0.	0.
13D	0.	0.	0.	0.	0.	0.
14D	0.	0.	0.	0.	0.	0.
15D	0.	0.	0.	0.	0.	0.

Nodo 4

Nodo 5

Nodo 6

Nodo 7

6D	0.	0.	0.	0.	0.	0.
7D	0.	0.	0.	0.	0.	0.
8D	0.	0.	0.	0.	0.	0.
9D	0.	0.	0.	0.	0.	0.
10D	0.	0.	0.	0.	0.	0.
11D	0.	0.	0.	0.	0.	0.
12D	0.	0.	0.	0.	0.	0.
13D	0.	0.	0.	0.	0.	0.
14D	0.	0.	0.	0.	0.	0.
15D	0.	0.	0.	0.	0.	0.
16D	0.	0.	0.	0.	0.	0.
17D	0.	0.	0.	0.	0.	0.
18D	0.	0.	0.	0.	0.	0.
19D	0.	0.	0.	0.	0.	0.
20D	0.	0.	0.	0.	0.	0.

Nodo 8

Nodo 9

Nodo 10

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1D	0.	0.	0.	0.	0.	0.
2D	0.	0.	0.	0.	0.	0.
3D	0.	0.	0.	0.	0.	0.
4D	0.	0.	0.	0.	0.	0.
5D	0.	0.	0.	0.	0.	0.
6D	0.	0.	0.	0.	0.	0.
7D	0.	0.	0.	0.	0.	0.
8D	0.	0.	0.	0.	0.	0.
9D	0.	0.	0.	0.	0.	0.
10D	0.	0.	0.	0.	0.	0.
11D	0.	0.	0.	0.	0.	0.
12D	0.	0.	0.	0.	0.	0.
13D	0.	0.	0.	0.	0.	0.
14D	0.	0.	0.	0.	0.	0.
15D	0.	0.	0.	0.	0.	0.
16D	0.	0.	0.	0.	0.	0.
17D	0.	0.	0.	0.	0.	0.
18D	0.	0.	0.	0.	0.	0.
19D	0.	0.	0.	0.	0.	0.
20D	0.	0.	0.	0.	0.	0.

Nodo 19

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-3.9e-06	-7.0e-05	-1.5e-04	2.02e-04	-3.8e-05	7.47e-04
2S	8.19e-07	-6.0e-06	-1.1e-05	1.72e-05	-1.2e-06	3.11e-04
1D	1.32e-04	2.28e-05	9.71e-05	-7.4e-05	5.00e-04	-0.00243
2D	1.30e-04	3.35e-05	1.01e-04	-1.1e-04	4.93e-04	-0.00242
3D	1.65e-04	2.84e-05	1.21e-04	-9.2e-05	6.22e-04	-0.00302
4D	1.62e-04	4.18e-05	1.26e-04	-1.4e-04	6.14e-04	-0.00301
5D	-1.7e-05	8.92e-05	5.29e-05	-3.1e-04	6.25e-05	4.16e-04
6D	-2.2e-05	9.35e-05	5.18e-05	-3.2e-04	-7.3e-05	4.19e-04
7D	-2.1e-05	1.11e-04	6.61e-05	-3.9e-04	7.79e-05	5.17e-04
8D	-2.7e-05	1.17e-04	6.47e-05	-4.0e-04	-9.1e-05	5.21e-04
9D	-1.9e-06	-1.9e-06	-1.7e-06	6.98e-06	-6.7e-06	2.20e-04
10D	-2.6e-06	-2.7e-06	-2.4e-06	9.78e-06	-9.4e-06	3.09e-04
11D	1.34e-04	2.36e-05	9.79e-05	-7.8e-05	5.04e-04	-0.00212
12D	1.31e-04	3.56e-05	1.02e-04	-1.2e-04	4.95e-04	-0.00211
13D	3.45e-04	5.96e-05	2.53e-04	-1.9e-04	0.001302	-0.00625
14D	3.39e-04	8.79e-05	2.63e-04	-2.9e-04	0.001284	-0.00623
15D	-1.9e-05	1.05e-04	6.19e-05	-3.6e-04	6.90e-05	4.33e-04
16D	-2.5e-05	1.09e-04	6.06e-05	-3.8e-04	-8.3e-05	4.34e-04
17D	-4.5e-05	2.37e-04	1.40e-04	-8.2e-04	1.64e-04	0.001087
18D	-5.7e-05	2.48e-04	1.37e-04	-8.6e-04	-1.9e-04	0.001094
19D	-1.8e-06	-1.8e-06	-1.6e-06	6.69e-06	-6.5e-06	2.07e-04
20D	-6.6e-06	-6.7e-06	-6.0e-06	2.46e-05	-2.4e-05	7.61e-04

Nodo 20

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.48e-05	2.81e-04	-1.1e-04	-0.00150	3.98e-05	7.48e-04
2S	2.20e-06	1.33e-04	-9.1e-06	-7.1e-04	7.28e-06	2.83e-04
1D	1.21e-04	-0.00108	-5.3e-05	0.005742	5.23e-04	-0.00226
2D	1.18e-04	-0.00108	-4.9e-05	0.005736	5.14e-04	-0.00229
3D	1.50e-04	-0.00134	-6.6e-05	0.007124	6.51e-04	-0.00281
4D	1.47e-04	-0.00133	-6.1e-05	0.007117	6.39e-04	-0.00284
5D	-1.7e-05	2.27e-04	3.16e-05	-0.00121	-6.7e-05	-6.6e-04
6D	-2.2e-05	2.27e-04	3.55e-05	-0.00121	-8.6e-05	6.34e-04
7D	-2.1e-05	2.83e-04	3.94e-05	-0.00151	-8.4e-05	-8.2e-04
8D	-2.8e-05	2.82e-04	4.43e-05	-0.00151	-1.1e-04	7.90e-04
9D	-1.8e-06	-9.7e-05	-1.8e-06	5.19e-04	-7.7e-06	-2.0e-04
10D	-2.6e-06	-1.4e-04	-2.5e-06	7.29e-04	-1.1e-05	-2.8e-04
11D	1.22e-04	-9.4e-04	-5.3e-05	0.005037	5.26e-04	-0.00202
12D	1.18e-04	-9.4e-04	-4.8e-05	0.005022	5.14e-04	-0.00205
13D	3.14e-04	-0.00277	-1.4e-04	0.014763	0.001362	-0.00582
14D	3.08e-04	-0.00277	-1.3e-04	0.014746	0.001338	-0.00589
15D	-1.9e-05	2.39e-04	3.69e-05	-0.00127	-7.4e-05	-7.2e-04
16D	-2.5e-05	2.37e-04	4.14e-05	-0.00126	-9.9e-05	6.91e-04
17D	-4.5e-05	5.95e-04	8.37e-05	-0.00317	-1.8e-04	-0.00173
18D	-5.9e-05	5.93e-04	9.40e-05	-0.00316	-2.3e-04	0.001666
19D	-1.8e-06	-9.1e-05	-1.7e-06	4.87e-04	-7.4e-06	-1.8e-04
20D	-6.5e-06	-3.3e-04	-6.2e-06	0.001787	-2.7e-05	-6.8e-04

Nodo 21

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-7.9e-06	-7.4e-04	-1.1e-04	0.004147	5.60e-06	1.90e-04
2S	5.94e-06	-3.4e-04	-7.2e-06	0.001880	2.52e-05	8.76e-05
1D	2.91e-04	-6.1e-04	1.22e-04	0.003323	0.001094	0.001117
2D	2.84e-04	-6.1e-04	1.19e-04	0.003352	0.001069	-0.00113
3D	3.62e-04	-7.6e-04	1.51e-04	0.004131	0.001361	0.001389
4D	3.53e-04	-7.6e-04	1.48e-04	0.004167	0.001330	-0.00140
5D	4.54e-05	0.001433	2.75e-05	-0.00782	1.64e-04	0.001157
6D	5.22e-05	0.001432	2.70e-05	-0.00782	1.90e-04	-0.00115
7D	5.66e-05	0.001781	3.44e-05	-0.00972	2.04e-04	0.001443
8D	6.51e-05	0.001780	3.37e-05	-0.00972	2.38e-04	-0.00143
9D	-3.9e-06	-4.4e-04	-1.5e-06	0.002415	-1.5e-05	-2.3e-04
10D	-5.5e-06	-6.2e-04	-2.1e-06	0.003388	-2.1e-05	-3.3e-04
11D	2.94e-04	-5.9e-04	1.22e-04	0.003197	0.001104	0.001114
12D	2.85e-04	-5.9e-04	1.19e-04	0.003223	0.001072	-0.00113
13D	7.59e-04	-0.00158	3.17e-04	0.008621	0.002852	0.002907
14D	7.40e-04	-0.00159	3.09e-04	0.008695	0.002784	-0.00294
15D	5.13e-05	0.001362	3.17e-05	-0.00743	1.84e-04	0.001281

16D	6.00e-05	0.001361	3.14e-05	-0.00743	2.19e-04	-0.00127
17D	1.20e-04	0.003713	7.29e-05	-0.02027	4.32e-04	0.003047
18D	1.38e-04	0.003712	7.16e-05	-0.02026	5.03e-04	-0.00302
19D	-3.8e-06	-4.1e-04	-1.4e-06	0.002263	-1.4e-05	-2.2e-04
20D	-1.4e-05	-0.00152	-5.2e-06	0.008312	-5.2e-05	-8.2e-04

Nodo 22

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	6.08e-06	-5.0e-04	-1.8e-04	0.002891	5.35e-05	0.001214
2S	8.07e-06	-2.2e-04	-1.4e-05	0.001296	3.18e-05	5.66e-04
1D	3.29e-04	-8.1e-04	4.69e-05	0.004339	0.001200	0.002011
2D	3.21e-04	-7.9e-04	4.44e-05	0.004229	0.001172	0.002085
3D	4.10e-04	-0.00101	5.83e-05	0.005388	0.001493	0.002498
4D	4.00e-04	-9.8e-04	5.52e-05	0.005251	0.001458	0.002591
5D	5.09e-05	0.001476	3.08e-05	-0.00802	1.78e-04	-0.00161
6D	5.91e-05	0.001474	2.85e-05	-0.00801	2.09e-04	0.001615
7D	6.35e-05	0.001834	3.85e-05	-0.00997	2.22e-04	-0.00200
8D	7.38e-05	0.001831	3.56e-05	-0.00996	2.61e-04	0.002014
9D	-4.5e-06	-4.7e-04	-1.2e-06	0.002555	-1.6e-05	2.76e-04
10D	-6.3e-06	-6.6e-04	-1.7e-06	0.003584	-2.3e-05	3.87e-04
11D	3.33e-04	-7.4e-04	4.67e-05	0.003980	0.001211	0.001901
12D	3.22e-04	-7.2e-04	4.38e-05	0.003879	0.001175	0.001992
13D	8.59e-04	-0.00209	1.22e-04	0.011203	0.003127	0.005205
14D	8.37e-04	-0.00204	1.15e-04	0.010918	0.003052	0.005402
15D	5.75e-05	0.001399	3.60e-05	-0.00760	2.00e-04	-0.00180
16D	6.80e-05	0.001397	3.34e-05	-0.00759	2.40e-04	0.001809
17D	1.34e-04	0.003823	8.17e-05	-0.02079	4.70e-04	-0.00424
18D	1.56e-04	0.003818	7.56e-05	-0.02076	5.53e-04	0.004259
19D	-4.3e-06	-4.4e-04	-1.2e-06	0.002393	-1.6e-05	2.76e-04
20D	-1.6e-05	-0.00162	-4.3e-06	0.008791	-5.8e-05	0.001015

Nodo 23

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	7.41e-05	1.48e-04	-4.3e-04	0.001278	0.	2.02e-04
2S	1.75e-05	9.59e-05	-3.9e-05	5.73e-04	0.	1.32e-04
1D	5.04e-04	0.001512	-1.5e-04	-0.00731	-7.8e-16	-7.2e-04
2D	4.92e-04	0.001518	-1.6e-04	-0.00717	-1.3e-15	6.22e-04
3D	6.27e-04	0.001878	-1.9e-04	-0.00908	-9.8e-16	-9.0e-04
4D	6.12e-04	0.001885	-2.0e-04	-0.00890	-1.7e-15	7.74e-04
5D	7.31e-05	0.001275	7.92e-05	-0.00851	6.70e-16	-9.6e-04
6D	8.75e-05	0.001276	7.51e-05	-0.00841	7.93e-16	-9.6e-04
7D	9.12e-05	0.001587	9.89e-05	-0.01059	8.37e-16	-0.00119
8D	1.09e-04	0.001589	9.38e-05	-0.01046	9.90e-16	-0.00119
9D	-7.0e-06	-3.6e-04	-4.7e-06	0.002666	-3.3e-16	2.90e-04
10D	-9.8e-06	-5.1e-04	-6.5e-06	0.003739	-3.3e-16	4.07e-04
11D	5.09e-04	0.001384	-1.6e-04	-0.00664	-8.7e-16	-7.6e-04
12D	4.94e-04	0.001400	-1.6e-04	-0.00652	-1.4e-15	6.53e-04
13D	0.001313	0.003903	-4.0e-04	-0.01886	-2.1e-15	-0.00189
14D	0.001281	0.003920	-4.2e-04	-0.01850	-3.5e-15	0.001628
15D	8.21e-05	-0.00132	9.24e-05	-0.00840	7.75e-16	-9.3e-04
16D	1.00e-04	0.001319	8.76e-05	-0.00826	9.21e-16	-9.3e-04
17D	1.93e-04	0.003330	2.10e-04	-0.02213	1.77e-15	-0.00249
18D	2.31e-04	0.003334	1.99e-04	-0.02185	2.10e-15	-0.00249
19D	-6.7e-06	-3.4e-04	4.41e-06	0.002507	-2.7e-16	2.74e-04
20D	-2.5e-05	-0.00126	1.62e-05	0.009207	-1.0e-15	0.001005

Nodo 24

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.42e-04	-7.5e-05	-2.4e-04	2.23e-04	2.40e-04	-6.9e-04
2S	2.34e-05	-1.2e-05	-2.5e-05	3.77e-05	4.61e-05	-3.6e-04
1D	5.38e-04	-4.8e-05	-2.0e-04	1.68e-04	0.001279	-0.00337
2D	5.27e-04	-5.8e-05	-2.0e-04	2.04e-04	0.001253	-0.00335
3D	6.70e-04	-6.0e-05	-2.4e-04	2.10e-04	0.001591	-0.00419
4D	6.56e-04	-7.3e-05	-2.5e-04	2.54e-04	0.001558	-0.00416
5D	7.06e-05	9.34e-05	6.04e-05	-3.2e-04	1.69e-04	0.002327
6D	8.77e-05	8.69e-05	5.84e-05	-3.0e-04	2.08e-04	-0.00234
7D	8.80e-05	1.17e-04	7.54e-05	-4.0e-04	2.11e-04	0.002901
8D	1.09e-04	1.09e-04	7.29e-05	-3.7e-04	2.60e-04	-0.00291
9D	-7.5e-06	-2.5e-06	4.04e-06	8.70e-06	-1.7e-05	5.47e-04
10D	-1.1e-05	-3.6e-06	5.66e-06	1.22e-05	-2.4e-05	7.67e-04
11D	5.44e-04	-5.1e-05	-2.0e-04	1.80e-04	0.001293	-0.00311
12D	5.30e-04	-6.3e-05	-2.0e-04	2.19e-04	0.001259	-0.00310
13D	0.001403	-1.3e-04	-5.1e-04	4.42e-04	0.003333	-0.00871
14D	0.001373	-1.5e-04	-5.2e-04	5.35e-04	0.003263	-0.00866
15D	7.84e-05	1.09e-04	7.00e-05	-3.7e-04	1.88e-04	0.002535
16D	1.00e-04	1.02e-04	6.77e-05	-3.5e-04	2.38e-04	-0.00255
17D	1.86e-04	2.48e-04	1.60e-04	-8.4e-04	4.46e-04	0.006117
18D	2.32e-04	2.31e-04	1.55e-04	-7.9e-04	5.50e-04	-0.00614
19D	-7.2e-06	-2.4e-06	3.83e-06	8.26e-06	-1.7e-05	5.20e-04
20D	-2.7e-05	-8.9e-06	1.41e-05	3.03e-05	-6.1e-05	0.001909

6D	-1.1e-04	1.07e-04	5.27e-05	9.94e-16	-0.00104	3.38e-04
7D	-1.3e-04	1.28e-04	6.77e-05	1.20e-15	-0.00132	4.17e-04
8D	-1.3e-04	1.34e-04	6.58e-05	1.24e-15	-0.00129	4.20e-04
9D	-7.1e-05	-2.1e-06	-2.1e-06	3.30e-16	4.40e-04	2.71e-04
10D	-1.0e-04	-3.0e-06	-3.0e-06	4.62e-16	6.17e-04	3.80e-04
11D	7.23e-04	2.24e-05	1.11e-04	1.88e-15	0.003311	-0.00248
12D	7.29e-04	3.63e-05	1.16e-04	-3.0e-15	0.003336	-0.00250
13D	0.002143	5.61e-05	2.87e-04	4.48e-15	0.009655	-0.00734
14D	0.002158	8.92e-05	2.98e-04	-7.8e-15	0.009712	-0.00739
15D	-1.1e-04	1.20e-04	6.34e-05	1.11e-15	-0.00104	3.29e-04
16D	-1.0e-04	1.26e-04	6.16e-05	1.16e-15	-0.00101	3.26e-04
17D	-2.8e-04	2.71e-04	1.44e-04	2.55e-15	-0.00277	8.72e-04
18D	-2.7e-04	2.85e-04	1.40e-04	2.64e-15	-0.00270	8.76e-04
19D	-6.7e-05	-2.1e-06	-2.0e-06	3.66e-16	4.12e-04	2.56e-04
20D	-2.5e-04	-7.5e-06	-7.5e-06	1.34e-15	0.001515	9.41e-04

Nodo 26

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.32e-04	-7.8e-05	-3.0e-04	0.	-0.00196	4.80e-05
2S	8.61e-05	-1.3e-05	-2.9e-05	0.	-8.6e-04	-7.4e-05
1D	0.001011	-4.7e-05	-2.1e-04	-2.8e-15	0.004098	-0.00189
2D	0.001009	-5.9e-05	-2.1e-04	-3.4e-15	0.004023	-0.00179
3D	0.001254	-5.8e-05	-2.6e-04	-3.5e-15	0.005085	-0.00235
4D	0.001253	-7.3e-05	-2.7e-04	-4.2e-15	0.004991	-0.00222
5D	3.25e-04	1.08e-04	5.78e-05	-1.0e-15	0.002015	-9.1e-04
6D	3.22e-04	1.01e-04	5.62e-05	8.14e-16	0.002002	8.68e-04
7D	4.04e-04	1.35e-04	7.21e-05	-1.3e-15	0.002504	-0.00113
8D	4.00e-04	1.26e-04	7.02e-05	1.02e-15	0.002489	0.001080
9D	-1.2e-04	-2.9e-06	4.37e-06	-1.9e-16	-7.8e-04	2.87e-04
10D	-1.6e-04	-4.1e-06	6.13e-06	-2.6e-16	-0.00110	4.02e-04
11D	8.91e-04	-5.1e-05	-2.1e-04	-2.5e-15	0.003620	-0.00179
12D	8.94e-04	-6.4e-05	-2.2e-04	-3.1e-15	0.003551	-0.00167
13D	0.002600	-1.2e-04	-5.5e-04	-7.3e-15	0.010543	-0.00490
14D	0.002597	-1.5e-04	-5.6e-04	-8.7e-15	0.010348	-0.00463
15D	3.27e-04	1.27e-04	6.68e-05	-1.2e-15	0.001947	-9.7e-04
16D	3.25e-04	1.18e-04	6.51e-05	9.50e-16	0.001935	9.16e-04
17D	8.46e-04	2.87e-04	1.53e-04	-2.7e-15	0.005228	-0.00238
18D	8.38e-04	2.67e-04	1.49e-04	2.16e-15	0.005195	0.002272
19D	-1.1e-04	-2.8e-06	4.15e-06	-2.2e-16	-7.4e-04	2.70e-04
20D	-4.1e-04	-1.0e-05	1.52e-05	-7.9e-16	-0.00271	9.92e-04

Nodo 27

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-3.8e-04	-7.2e-05	-1.8e-04	2.23e-04	-0.00211	4.73e-04
2S	-1.8e-04	-6.2e-06	-1.3e-05	1.98e-05	-9.8e-04	2.40e-04
1D	0.001864	2.23e-05	7.64e-05	-7.9e-05	0.010102	-0.00495
2D	0.001877	3.54e-05	7.90e-05	-1.2e-04	0.010170	0.005119
3D	0.002312	2.78e-05	9.50e-05	-9.9e-05	0.012532	-0.00615
4D	0.002329	4.40e-05	9.83e-05	-1.6e-04	0.012618	0.006360
5D	-2.5e-04	1.06e-04	3.46e-05	-3.7e-04	-0.00132	8.73e-04
6D	-2.6e-04	1.12e-04	3.34e-05	-3.9e-04	-0.00137	9.16e-04
7D	-3.1e-04	1.33e-04	4.31e-05	-4.6e-04	-0.00164	0.001086
8D	-3.2e-04	1.39e-04	4.17e-05	-4.9e-04	-0.00170	0.001139
9D	1.68e-04	-2.2e-06	-1.7e-06	7.40e-06	9.08e-04	-4.8e-04
10D	2.36e-04	-3.0e-06	-2.3e-06	1.04e-05	0.001273	-6.7e-04
11D	0.001629	2.33e-05	7.73e-05	-8.2e-05	0.008815	-0.00460
12D	0.001644	3.77e-05	8.02e-05	-1.3e-04	0.008889	0.004810
13D	0.004791	5.84e-05	1.99e-04	-2.1e-04	0.025961	-0.01280
14D	0.004826	9.27e-05	2.06e-04	-3.3e-04	0.026141	0.013245
15D	-2.4e-04	1.24e-04	4.03e-05	-4.4e-04	-0.00125	-8.5e-04
16D	-2.4e-04	1.31e-04	3.90e-05	-4.6e-04	-0.00130	8.95e-04
17D	-6.4e-04	2.82e-04	9.16e-05	-9.9e-04	-0.00342	0.002268
18D	-6.7e-04	2.96e-04	8.84e-05	-0.00104	-0.00355	0.002380
19D	1.57e-04	-2.1e-06	-1.6e-06	7.16e-06	8.51e-04	-4.5e-04
20D	5.78e-04	-7.7e-06	-5.8e-06	2.63e-05	0.003124	-0.00167

Nodo 28

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.00e-04	-7.8e-05	-2.3e-04	2.54e-04	0.001135	1.75e-04
2S	9.32e-05	-1.3e-05	-2.1e-05	4.45e-05	5.29e-04	2.59e-05
1D	0.001619	-4.8e-05	-1.4e-04	1.75e-04	0.008762	0.004246
2D	0.001598	-6.1e-05	-1.4e-04	2.20e-04	0.008654	0.004226
3D	0.002008	-6.0e-05	-1.7e-04	2.19e-04	0.010870	0.005279
4D	0.001983	-7.6e-05	-1.8e-04	2.75e-04	0.010735	0.005255
5D	5.53e-04	1.14e-04	3.51e-05	-4.0e-04	0.002940	0.001877
6D	5.46e-04	1.06e-04	3.43e-05	-3.7e-04	0.002899	0.001840
7D	6.87e-04	1.42e-04	4.38e-05	-5.0e-04	0.003653	0.002334
8D	6.78e-04	1.32e-04	4.29e-05	-4.6e-04	0.003602	0.002288
9D	-2.4e-04	-3.1e-06	3.01e-06	1.09e-05	-0.00127	-6.4e-04
10D	-3.3e-04	-4.4e-06	4.23e-06	1.53e-05	-0.00178	-9.0e-04
11D	0.001410	-5.2e-05	-1.4e-04	1.90e-04	0.007622	0.004165
12D	0.001392	-6.6e-05	-1.4e-04	2.39e-04	0.007527	0.004151
13D	0.004160	-1.3e-04	-3.6e-04	4.61e-04	0.022513	0.011032
14D	0.004107	-1.6e-04	-3.7e-04	5.79e-04	0.022233	0.010983
15D	5.18e-04	1.33e-04	4.04e-05	-4.7e-04	0.002749	0.001835
16D	5.10e-04	1.24e-04	3.97e-05	-4.4e-04	0.002709	0.001795
17D	0.001432	3.01e-04	9.28e-05	-0.00106	0.007607	0.004876
18D	0.001412	2.81e-04	9.09e-05	-9.9e-04	0.007500	0.004780
19D	-2.2e-04	-3.0e-06	2.86e-06	1.04e-05	-0.00119	-6.0e-04
20D	-8.2e-04	-1.1e-05	1.05e-05	3.81e-05	-0.00437	-0.00221

Nodo 29

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-2.7e-04	-7.8e-05	-3.5e-04	0.	-0.00697	-9.7e-04
2S	-1.3e-04	-6.8e-06	-2.5e-05	0.	-0.00326	-4.4e-04
1D	0.003665	2.96e-05	1.15e-04	-1.6e-15	0.027691	-0.00620
2D	-0.00383	4.60e-05	1.19e-04	-1.3e-15	0.027872	0.006914
3D	0.004554	3.69e-05	1.43e-04	-2.0e-15	0.034347	-0.00772
4D	-0.00476	5.73e-05	1.48e-04	-1.7e-15	0.034573	0.008611
5D	6.82e-04	1.34e-04	4.70e-05	-1.2e-15	-0.00290	-0.00137
6D	-7.1e-04	1.41e-04	4.51e-05	6.75e-16	-0.00305	-0.00139
7D	8.49e-04	1.67e-04	5.87e-05	-1.5e-15	-0.00360	-0.00171
8D	-8.9e-04	1.76e-04	5.64e-05	8.43e-16	-0.00379	-0.00173
9D	3.54e-04	-2.6e-06	-2.9e-06	7.41e-17	-0.00250	6.78e-04
10D	4.97e-04	-3.7e-06	-4.0e-06	1.04e-16	-0.00351	9.50e-04
11D	0.003471	3.07e-05	1.17e-04	-1.4e-15	0.023890	-0.00645
12D	-0.00367	4.90e-05	1.21e-04	-1.3e-15	0.024078	0.007258
13D	0.009491	7.74e-05	2.99e-04	-4.2e-15	0.071095	-0.01622
14D	-0.00993	1.21e-04	3.10e-04	-3.5e-15	0.071568	0.018102
15D	6.68e-04	1.57e-04	5.47e-05	-1.4e-15	-0.00274	-0.00142
16D	-7.0e-04	1.65e-04	5.26e-05	7.78e-16	-0.00287	-0.00144
17D	0.001773	3.55e-04	1.25e-04	-3.1e-15	-0.00751	-0.00358
18D	-0.00186	3.73e-04	1.20e-04	1.79e-15	-0.00790	-0.00364
19D	3.40e-04	-2.5e-06	-2.7e-06	8.43e-17	-0.00235	6.84e-04
20D	0.001248	-9.3e-06	-1.0e-05	3.10e-16	-0.00864	0.002511

Nodo 30

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.3e-04	-9.1e-05	-4.1e-04	0.	0.005090	0.001320
2S	-4.6e-05	-1.6e-05	-3.6e-05	0.	0.002377	5.96e-04
1D	-0.00357	-6.0e-05	-2.0e-04	-2.0e-16	0.024323	0.008448
2D	-0.00348	-7.7e-05	-2.0e-04	-1.5e-15	0.024086	0.008091
3D	-0.00444	-7.5e-05	-2.4e-04	-2.5e-16	0.030171	0.010523
4D	-0.00433	-9.5e-05	-2.5e-04	-1.9e-15	0.029877	0.010078
5D	0.001501	1.45e-04	4.59e-05	-4.0e-16	0.005440	0.002863
6D	0.001470	1.35e-04	4.52e-05	6.91e-16	0.005326	0.002765
7D	0.001866	1.81e-04	5.73e-05	-5.1e-16	0.006758	0.003561
8D	0.001827	1.68e-04	5.64e-05	8.63e-16	0.006616	0.003438
9D	5.70e-04	-3.9e-06	4.62e-06	-7.1e-17	-0.00268	-0.00108
10D	7.99e-04	-5.5e-06	6.48e-06	-1.0e-16	-0.00376	-0.00151
11D	-0.00354	-6.6e-05	-2.0e-04	-2.1e-16	0.021028	0.008978
12D	-0.00344	-8.3e-05	-2.0e-04	-1.4e-15	0.020825	0.008571
13D	-0.00929	-1.6e-04	-5.1e-04	-5.3e-16	0.062459	0.022146
14D	-0.00905	-2.0e-04	-5.2e-04	-3.9e-15	0.061850	0.021203
15D	0.001437	1.69e-04	5.28e-05	-4.7e-16	0.005077	0.002832
16D	-0.00140	1.58e-04	5.21e-05	8.08e-16	0.004962	0.002715
17D	0.003893	3.83e-04	1.21e-04	-1.1e-15	0.014071	0.007449
18D	0.003810	3.57e-04	1.20e-04	1.83e-15	0.013773	0.007187
19D	5.38e-04	-3.7e-06	4.38e-06	-7.4e-17	-0.00252	-0.00104
20D	0.001977	-1.4e-05	1.61e-05	-2.7e-16	-0.00926	-0.00381

Nodo 31

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.7e-04	-5.9e-05	-4.0e-04	0.	-0.01229	5.49e-04
2S	-8.7e-05	-5.3e-06	-2.9e-05	0.	-0.00569	2.52e-04
1D	0.004899	3.17e-05	1.14e-04	-4.0e-16	0.045710	-0.00177
2D	-0.00521	4.94e-05	1.18e-04	-4.1e-16	0.046026	-0.00174
3D	0.006090	3.95e-05	1.41e-04	-4.9e-16	0.056693	-0.00220
4D	-0.00648	6.15e-05	1.47e-04	-5.1e-16	0.057087	-0.00217
5D	9.88e-04	1.44e-04	4.46e-05	-9.7e-16	-0.00412	3.01e-04
6D	0.001024	1.52e-04	4.28e-05	-9.1e-16	-0.00439	3.24e-04
7D	0.001229	1.80e-04	5.56e-05	-1.2e-15	-0.00513	3.75e-04
8D	0.001273	1.90e-04	5.35e-05	-1.1e-15	-0.00545	4.04e-04
9D	5.05e-04	-2.7e-06	-3.2e-06	3.62e-17	-0.00399	1.95e-04
10D	7.08e-04	-3.8e-06	-4.5e-06	5.07e-17	-0.00560	2.74e-04
11D	0.004766	3.29e-05	1.16e-04	-3.9e-16	0.039291	-0.00169
12D	-0.00514	5.26e-05	1.20e-04	-4.1e-16	0.039616	-0.00166
13D	0.012720	8.30e-05	2.96e-04	-1.0e-15	0.117320	-0.00459
14D	-0.01356	1.29e-04	3.08e-04	-1.1e-15	0.118146	-0.00452
15D	9.84e-04	1.69e-04	5.19e-05	-1.1e-15	-0.00393	3.33e-04
16D	0.001019	1.78e-04	4.99e-05	-1.0e-15	-0.00417	3.60e-04
17D	0.002572	3.83e-04	1.18e-04	-2.6e-15	-0.01069	7.93e-04
18D	0.002665	4.03e-04	1.13e-04	-2.4e-15	-0.01137	8.53e-04
19D	-4.9e-04	-2.6e-06	-3.0e-06	4.21e-17	-0.00375	1.95e-04
20D	-0.00181	-9.6e-06	-1.1e-05	1.55e-16	-0.01379	7.16e-04

11D	-0.00563	-6.9e-05	-1.8e-04	-1.0e-15	0.034730	0.002168
12D	-0.00543	-8.7e-05	-1.9e-04	-2.7e-16	0.034449	0.002145
13D	-0.01435	-1.6e-04	-4.7e-04	-2.9e-15	0.103325	0.005670
14D	-0.01388	-2.1e-04	-4.8e-04	-6.2e-16	0.102458	0.005616
15D	-0.00212	1.83e-04	4.93e-05	-3.2e-16	0.006254	6.88e-04
16D	-0.00206	1.71e-04	4.86e-05	1.17e-15	-0.00607	6.65e-04
17D	-0.00568	4.16e-04	1.13e-04	-7.1e-16	0.017322	0.001738
18D	-0.00554	3.87e-04	1.11e-04	2.67e-15	0.016851	0.001691
19D	7.79e-04	-3.9e-06	4.47e-06	-6.1e-17	0.003649	-2.6e-04
20D	0.002863	-1.4e-05	1.64e-05	-2.3e-16	0.013403	-9.6e-04

Nodo 33

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-9.9e-04	-3.5e-05	-3.9e-04	0.	-0.01252	0.003129
2S	-4.6e-04	-3.2e-06	-2.9e-05	0.	-0.00584	0.001443
1D	0.005409	3.31e-05	9.77e-05	-5.3e-16	0.046054	-0.00967
2D	0.005532	5.04e-05	1.02e-04	3.23e-16	0.046343	-0.01022
3D	0.006714	4.13e-05	1.22e-04	-6.6e-16	0.057119	-0.01201
4D	0.006868	6.28e-05	1.27e-04	4.01e-16	0.057478	-0.01270
5D	-7.8e-04	1.42e-04	3.58e-05	-2.0e-16	-0.00385	0.001311
6D	-8.2e-04	1.50e-04	3.44e-05	4.64e-16	-0.00412	0.001331
7D	-9.7e-04	1.77e-04	4.47e-05	-2.5e-16	-0.00478	0.001633
8D	-0.00102	1.87e-04	4.30e-05	5.79e-16	-0.00512	0.001657
9D	5.20e-04	-2.5e-06	-3.0e-06	-1.0e-16	-0.00401	8.10e-04
10D	7.29e-04	-3.5e-06	-4.3e-06	-1.4e-16	-0.00563	0.001135
11D	0.004853	3.42e-05	9.97e-05	-5.0e-16	0.039517	-0.00911
12D	-0.00501	5.35e-05	1.04e-04	3.30e-16	0.039791	-0.00977
13D	0.013935	8.66e-05	2.55e-04	-1.4e-15	0.118187	-0.02502
14D	0.014263	1.32e-04	2.65e-04	8.41e-16	0.118935	-0.02648
15D	7.62e-04	1.67e-04	4.16e-05	-2.3e-16	-0.00362	0.001367
16D	-8.0e-04	1.75e-04	4.00e-05	5.40e-16	-0.00388	0.001384
17D	-0.00203	3.77e-04	9.48e-05	-5.2e-16	-0.00996	0.003430
18D	-0.00213	3.97e-04	9.12e-05	1.23e-15	-0.01067	0.003480
19D	4.97e-04	-2.5e-06	-2.9e-06	-1.1e-16	-0.00377	-7.9e-04
20D	0.001827	-9.1e-06	-1.1e-05	-3.9e-16	-0.01383	-0.00291

Nodo 34

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	7.03e-04	-5.2e-05	-4.3e-04	0.	0.011148	-0.00353
2S	3.36e-04	-1.3e-05	-3.7e-05	0.	0.005204	-0.00162
1D	0.005354	-6.2e-05	-1.4e-04	1.70e-15	0.040325	-0.01060
2D	-0.00524	-7.9e-05	-1.4e-04	-7.6e-16	0.040001	-0.01036
3D	0.006652	-7.7e-05	-1.7e-04	2.11e-15	0.050014	-0.01318
4D	-0.00652	-9.8e-05	-1.8e-04	-9.4e-16	0.049613	-0.01287
5D	-0.00172	1.55e-04	3.41e-05	3.10e-16	-0.00592	-0.00265
6D	-0.00168	1.44e-04	3.35e-05	8.40e-16	-0.00576	0.002574
7D	-0.00214	1.93e-04	4.25e-05	3.87e-16	-0.00736	-0.00330
8D	-0.00209	1.80e-04	4.18e-05	1.05e-15	-0.00716	0.003201
9D	6.75e-04	-4.0e-06	-4.2e-06	2.56e-17	0.003770	0.001269
10D	9.46e-04	-5.5e-06	-5.9e-06	3.59e-17	0.005289	0.001780
11D	0.005063	-6.7e-05	-1.4e-04	1.49e-15	0.034637	-0.01034
12D	-0.00494	-8.6e-05	-1.5e-04	-7.1e-16	0.034374	-0.01005
13D	0.013859	-1.6e-04	-3.7e-04	4.37e-15	0.103491	-0.02752
14D	-0.01357	-2.1e-04	-3.7e-04	-2.0e-15	0.102664	-0.02688
15D	-0.00166	1.81e-04	3.92e-05	3.57e-16	-0.00551	-0.00262
16D	-0.00161	1.69e-04	3.86e-05	9.85e-16	-0.00536	0.002531
17D	-0.00446	4.10e-04	9.02e-05	8.20e-16	-0.01531	-0.00690
18D	-0.00435	3.82e-04	8.85e-05	2.23e-15	-0.01490	0.006693
19D	6.41e-04	-3.8e-06	3.96e-06	2.92e-17	0.003541	0.001208
20D	0.002353	-1.4e-05	1.46e-05	1.07e-16	0.013007	0.004438

Nodo 35

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00205	-2.6e-05	-2.5e-04	7.96e-05	-0.01135	0.001622
2S	-9.5e-04	-2.0e-06	-1.9e-05	6.22e-06	-0.00527	7.48e-04
1D	0.007575	3.71e-05	5.44e-05	-1.3e-04	0.041181	-0.00868
2D	0.007623	5.26e-05	5.65e-05	-1.8e-04	0.041441	-0.00893
3D	0.009395	4.61e-05	6.77e-05	-1.6e-04	0.051074	-0.01079
4D	0.009454	6.55e-05	7.03e-05	-2.2e-04	0.051396	-0.01110
5D	-5.5e-04	1.28e-04	1.50e-05	-4.4e-04	-0.00294	0.001362
6D	-5.9e-04	1.35e-04	1.43e-05	-4.6e-04	-0.00317	0.001377
7D	-6.8e-04	1.60e-04	1.87e-05	-5.5e-04	-0.00365	0.001695
8D	-7.3e-04	1.68e-04	1.78e-05	-5.8e-04	-0.00394	0.001714
9D	-6.4e-04	-2.2e-06	-1.9e-06	7.61e-06	-0.00349	-9.0e-04
10D	-9.0e-04	-3.1e-06	-2.6e-06	1.07e-05	-0.00489	-0.00126
11D	0.006495	3.80e-05	5.56e-05	-1.3e-04	0.035306	0.008137
12D	0.006538	5.54e-05	5.79e-05	-1.9e-04	0.035537	-0.00842
13D	0.019438	9.67e-05	1.42e-04	-3.3e-04	0.105673	-0.02247
14D	0.019562	1.38e-04	1.47e-04	-4.7e-04	0.106342	-0.02312
15D	-5.1e-04	1.50e-04	1.73e-05	-5.1e-04	-0.00272	0.001390
16D	-5.5e-04	1.58e-04	1.64e-05	-5.4e-04	-0.00293	0.001411
17D	-0.00141	3.40e-04	3.97e-05	-0.00116	-0.00759	0.003554
18D	-0.00153	3.57e-04	3.77e-05	-0.00122	-0.00819	0.003595
19D	-6.0e-04	-2.2e-06	-1.8e-06	7.48e-06	-0.00327	-8.9e-04
20D	-0.00221	-8.0e-06	-6.5e-06	2.75e-05	-0.01200	-0.00325

Nodo 36

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.001903	-4.5e-05	-2.7e-04	1.49e-04	0.010559	-0.00186
2S	8.87e-04	-1.1e-05	-2.3e-05	3.91e-05	0.004920	-8.5e-04

1D	0.006679	-6.1e-05	-6.5e-05	2.21e-04	0.036318	0.009890
2D	0.006622	-7.7e-05	-6.7e-05	2.73e-04	0.036014	-0.00979
3D	0.008283	-7.7e-05	-8.1e-05	2.76e-04	0.045042	0.012301
4D	0.008213	-9.5e-05	-8.3e-05	3.40e-04	0.044664	-0.01217
5D	-7.5e-04	1.39e-04	1.40e-05	-4.8e-04	-0.004004	0.003256
6D	-7.2e-04	1.29e-04	1.39e-05	-4.4e-04	-0.00389	0.003216
7D	-9.3e-04	1.74e-04	1.74e-05	-5.9e-04	-0.00502	0.004050
8D	-9.0e-04	1.62e-04	1.74e-05	-5.5e-04	-0.00483	0.003999
9D	6.02e-04	-3.5e-06	-2.4e-06	1.20e-05	0.003264	0.001608
10D	8.44e-04	-4.9e-06	-3.4e-06	1.68e-05	0.004579	0.002256
11D	0.005719	-6.7e-05	-6.7e-05	2.38e-04	0.031093	0.009821
12D	0.005670	-8.3e-05	-6.8e-05	2.94e-04	0.030829	-0.00971
13D	0.017136	-1.6e-04	-1.7e-04	5.80e-04	0.093183	0.025732
14D	0.016991	-2.0e-04	-1.7e-04	7.16e-04	0.092400	-0.02546
15D	-7.0e-04	1.63e-04	1.60e-05	-5.6e-04	-0.00375	0.003214
16D	-6.7e-04	1.52e-04	1.60e-05	-5.2e-04	-0.00360	0.003161
17D	-0.00194	3.68e-04	3.69e-05	-0.00126	-0.01045	0.008470
18D	-0.00187	3.43e-04	3.69e-05	-0.00117	-0.01005	0.008361
19D	5.64e-04	-3.3e-06	-2.3e-06	1.14e-05	0.003057	0.001542
20D	0.002071	-1.2e-05	-8.3e-06	4.18e-05	0.011229	0.005664

Nodo 37

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00216	-2.4e-05	-4.2e-04	0.	-0.01783	-0.00112
2S	-0.00100	-1.2e-06	-3.1e-05	0.	-0.00831	-5.2e-04
1D	0.009461	5.19e-05	8.46e-05	2.42e-16	0.062821	0.008371
2D	0.009508	6.97e-05	8.74e-05	3.30e-16	0.063280	0.007965
3D	0.011740	6.46e-05	1.05e-04	3.01e-16	0.077914	0.010423
4D	0.011797	8.68e-05	1.09e-04	4.10e-16	0.078483	0.009916
5D	-8.4e-04	1.48e-04	1.49e-05	-2.1e-16	-0.00405	-0.00141
6D	-8.8e-04	1.55e-04	-1.4e-05	-7.3e-16	-0.00443	-0.00148
7D	-0.00104	1.85e-04	1.86e-05	-2.6e-16	-0.00503	-0.00175
8D	-0.00110	1.94e-04	-1.7e-05	-9.1e-16	-0.00551	-0.00184
9D	-8.7e-04	-2.5e-06	-2.9e-06	7.60e-17	-0.00531	-0.00102
10D	-0.00122	-3.5e-06	-4.1e-06	1.07e-16	-0.00745	-0.00143
11D	0.008315	5.29e-05	8.67e-05	2.25e-16	0.053889	-0.00872
12D	0.008347	7.30e-05	8.98e-05	3.22e-16	0.054282	0.008257
13D	0.024330	1.35e-04	2.21e-04	6.25e-16	0.161421	0.021898
14D	0.024448	1.82e-04	2.28e-04	8.57e-16	0.162389	0.020823
15D	-8.3e-04	1.73e-04	1.67e-05	-2.4e-16	-0.00376	-0.00147
16D	8.71e-04	1.82e-04	1.54e-05	-8.6e-16	-0.00413	-0.00156
17D	-0.00218	3.92e-04	3.93e-05	-5.6e-16	-0.01047	-0.00368
18D	-0.00229	4.12e-04	-3.6e-05	-1.9e-15	-0.01146	-0.00387
19D	-8.3e-04	-2.5e-06	-2.8e-06	7.63e-17	-0.00498	-0.00103
20D	-0.00305	-9.2e-06	-1.0e-05	2.80e-16	-0.01830	-0.00377

Nodo 38

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.002058	-4.9e-05	-4.4e-04	0.	0.017175	0.001152
2S	9.56e-04	-1.3e-05	-3.6e-05	0.	0.008003	5.35e-04
1D	0.008689	-7.8e-05	-7.8e-05	-1.9e-16	0.057368	-0.01057
2D	0.008604	-9.5e-05	-7.9e-05	9.83e-17	0.056915	-0.01040
3D	0.010787	-9.7e-05	-9.7e-05	-2.4e-16	0.071148	-0.01316
4D	0.010682	-1.2e-04	-9.8e-05	1.23e-16	0.070586	-0.01295
5D	-0.00137	1.60e-04	1.26e-05	1.14e-16	0.004431	0.003034
6D	-0.00135	1.49e-04	1.32e-05	-4.1e-16	0.004143	0.003006
7D	-0.00170	2.00e-04	1.57e-05	1.42e-16	0.005504	0.003774
8D	-0.00168	1.86e-04	1.65e-05	-5.1e-16	0.005147	0.003740
9D	-0.00104	-3.9e-06	-3.6e-06	3.78e-17	0.005221	0.001764
10D	-0.00145	-5.5e-06	-5.0e-06	5.30e-17	0.007324	0.002474
11D	0.007879	-8.4e-05	-8.0e-05	1.92e-16	0.049140	-0.01125
12D	0.007798	-1.0e-04	-8.1e-05	1.12e-16	0.048737	-0.01107
13D	0.022404	-2.0e-04	-2.0e-04	-5.0e-16	0.147196	-0.02771
14D	0.022185	-2.5e-04	-2.1e-04	2.60e-16	0.146030	-0.02727
15D	-0.00136	1.87e-04	1.40e-05	1.33e-16	0.004152	0.003045
16D	-0.00134	1.74e-04	1.50e-05	-4.8e-16	0.003872	0.003006
17D	-0.00357	4.24e-04	3.31e-05	3.02e-16	0.011464	0.007905
18D	-0.00351	3.95e-04	3.49e-05	-1.1e-15	0.010717	0.007830
19D	-9.9e-04	-3.7e-06	-3.4e-06	-4.3e-17	0.004906	0.001742
20D	-0.00364	-1.4e-05	-1.2e-05	-1.6e-16	0.018018	0.006399

16D	0.001133	1.89e-04	-1.3e-05	-1.7e-16	-0.00480	5.34e-04
17D	-0.00279	4.09e-04	-3.3e-05	3.77e-16	-0.01202	0.001114
18D	0.002930	4.29e-04	-3.1e-05	-4.1e-16	-0.01327	0.001257
19D	9.74e-04	-2.5e-06	-2.9e-06	3.12e-17	-0.00610	7.54e-05
20D	0.003578	-9.3e-06	-1.1e-05	1.15e-16	-0.02240	2.77e-04

Nodo 40

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.001793	-3.0e-05	-4.8e-04	0.	0.022512	3.82e-05
2S	8.33e-04	-1.1e-05	-3.8e-05	0.	0.010456	1.57e-05
1D	0.009853	-8.5e-05	-6.5e-05	-3.0e-16	0.073796	7.89e-04
2D	0.009735	-1.0e-04	-6.5e-05	-8.8e-17	0.073279	9.90e-04
3D	0.012243	-1.1e-04	-8.0e-05	-3.7e-16	0.091525	9.83e-04
4D	0.012096	-1.3e-04	-8.1e-05	-1.1e-16	0.090882	0.001235
5D	-0.00196	1.66e-04	9.16e-06	1.16e-16	0.004155	3.95e-04
6D	-0.00194	1.55e-04	9.95e-06	-1.7e-16	-0.00374	3.96e-04
7D	-0.00244	2.07e-04	1.14e-05	1.45e-16	0.005163	4.92e-04
8D	-0.00242	1.93e-04	1.24e-05	-2.1e-16	-0.00465	4.94e-04
9D	-0.00136	-3.9e-06	-3.7e-06	2.97e-17	0.006676	-1.5e-04
10D	-0.00191	-5.5e-06	-5.1e-06	4.16e-17	0.009365	-2.0e-04
11D	-0.00935	-9.1e-05	-6.7e-05	-2.6e-16	0.063265	8.56e-04
12D	0.009231	-1.1e-04	-6.7e-05	-1.0e-16	0.062810	0.001079
13D	0.025515	-2.2e-04	-1.1e-04	-7.7e-16	0.189363	0.002073
14D	0.025207	-2.7e-04	-1.7e-04	-2.3e-16	0.188031	0.002604
15D	-0.00197	1.94e-04	9.92e-06	1.36e-16	0.003940	4.07e-04
16D	-0.00194	1.81e-04	1.11e-05	-1.9e-16	-0.00353	4.12e-04
17D	-0.00511	4.40e-04	2.41e-05	3.08e-16	0.010762	0.001033
18D	-0.00506	4.10e-04	2.62e-05	-4.5e-16	-0.00968	0.001037
19D	-0.00132	-3.8e-06	-3.4e-06	3.20e-17	0.006290	-1.5e-04
20D	-0.00484	-1.4e-05	-1.3e-05	1.18e-16	0.023102	-5.5e-04

Nodo 41

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00219	1.93e-05	-4.3e-04	0.	-0.01820	0.001277
2S	-0.00101	3.05e-06	-3.1e-05	0.	-0.00848	5.93e-04
1D	0.009614	6.16e-05	8.73e-05	-5.4e-17	0.064366	0.008148
2D	0.009619	7.94e-05	9.02e-05	5.62e-16	0.064988	-0.00788
3D	0.011929	6.7e-05	1.09e-04	-6.7e-17	0.079830	0.010146
4D	0.011935	9.88e-05	1.12e-04	6.98e-16	0.080602	-0.00981
5D	-7.9e-04	1.45e-04	-1.1e-05	-1.5e-16	-0.00367	0.001448
6D	8.39e-04	1.56e-04	-1.0e-05	-7.6e-16	-0.00402	0.001518
7D	-9.8e-04	1.86e-04	-1.4e-05	-1.8e-16	-0.00456	0.001803
8D	0.001044	1.95e-04	-1.3e-05	-9.5e-16	-0.00500	0.001891
9D	-8.7e-04	-2.4e-06	-2.8e-06	1.59e-17	-0.00534	0.001027
10D	-0.00122	-3.4e-06	-3.9e-06	2.22e-17	-0.00749	0.001439
11D	0.008460	6.24e-05	8.94e-05	-5.5e-17	0.055222	0.008498
12D	0.008430	8.25e-05	9.25e-05	5.15e-16	0.055766	-0.00820
13D	0.024725	1.61e-04	2.28e-04	-1.4e-16	0.165177	0.021317
14D	0.024731	2.08e-04	2.35e-04	1.45e-15	0.166777	-0.02061
15D	-7.7e-04	1.74e-04	-1.2e-05	-1.7e-16	-0.00341	0.001522
16D	8.24e-04	1.82e-04	-1.1e-05	-8.9e-16	-0.00374	0.001609
17D	-0.00205	3.94e-04	-2.9e-05	-3.9e-16	-0.00948	0.003791
18D	0.002182	4.13e-04	-2.7e-05	-2.0e-15	-0.01040	0.003978
19D	-8.3e-04	-2.4e-06	-2.7e-06	1.92e-17	-0.00501	0.001033
20D	-0.00303	-8.8e-06	-9.8e-06	7.07e-17	-0.01841	0.003795

Nodo 42

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.002146	-7.9e-06	-4.4e-04	0.	0.018445	-0.00163
2S	9.97e-04	-8.2e-06	-3.5e-05	0.	0.008580	-7.5e-04
1D	0.009019	-8.5e-05	-4.4e-05	1.12e-16	0.062483	-0.01073
2D	0.008932	-1.0e-04	-4.4e-05	-3.4e-16	0.062089	0.010598
3D	0.011194	-1.1e-04	-5.5e-05	1.39e-16	0.077492	-0.01337
4D	0.011087	-1.3e-04	-5.4e-05	-4.2e-16	0.077004	0.013201
5D	-0.00131	1.59e-04	6.32e-06	3.45e-17	-0.00284	-0.00292
6D	-0.00130	1.48e-04	6.80e-06	-6.7e-17	-0.00258	-0.00289
7D	-0.00163	1.99e-04	7.87e-06	4.31e-17	-0.00352	-0.00363
8D	-0.00162	1.85e-04	8.48e-06	-8.4e-17	-0.00321	-0.00359
9D	-0.00110	-3.6e-06	-3.2e-06	2.54e-17	0.005701	-0.00166
10D	-0.00154	-5.1e-06	-4.5e-06	3.56e-17	0.007997	-0.00232
11D	0.008114	-9.1e-05	-4.6e-05	1.02e-16	0.053518	-0.01139
12D	0.008030	-1.1e-04	-4.5e-05	-3.2e-16	0.053177	0.011248
13D	0.023238	-2.2e-04	-1.1e-04	2.88e-16	0.160320	-0.02813
14D	0.023014	-2.7e-04	-1.1e-04	-8.8e-16	0.159310	0.027777
15D	-0.00131	1.86e-04	-6.7e-06	4.06e-17	-0.00267	-0.00294
16D	-0.00130	1.74e-04	7.48e-06	-7.9e-17	-0.00244	-0.00289
17D	-0.00341	4.23e-04	1.66e-05	9.16e-17	-0.00734	-0.00761
18D	-0.00339	3.94e-04	1.79e-05	-1.8e-16	-0.00669	-0.00752
19D	-0.00105	-3.5e-06	-3.0e-06	2.43e-17	0.005357	-0.00164
20D	-0.00386	-1.3e-05	-1.1e-05	8.92e-17	0.019676	-0.00603

Nodo 43

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00218	1.96e-05	-2.6e-04	-6.6e-05	-0.01207	-0.00131
2S	-0.00101	3.33e-06	-1.9e-05	-1.1e-05	-0.00561	-6.1e-04
1D	0.008057	6.21e-05	5.63e-05	-2.1e-04	0.043789	-0.00788
2D	0.008147	7.77e-05	5.78e-05	-2.6e-04	0.044274	-0.00757
3D	0.009993	7.73e-05	7.00e-05	-2.6e-04	0.054309	-0.00979
4D	0.010104	9.67e-05	7.19e-05	-3.2e-04	0.054911	-0.00941
5D	-4.4e-04	1.30e-04	-1.0e-05	-4.4e-04	-0.00238	-0.00125

6D	-4.9e-04	1.36e-04	-1.0e-05	-4.7e-04	-0.00263	-0.00131
7D	-5.5e-04	1.62e-04	-1.2e-05	-5.6e-04	-0.00296	-0.00155
8D	-6.1e-04	1.70e-04	-1.3e-05	-5.8e-04	-0.00327	-0.00163
9D	-6.6e-04	-2.1e-06	-1.7e-06	7.24e-06	-0.00355	7.87e-04
10D	-9.2e-04	-3.0e-06	-2.3e-06	1.02e-05	-0.00499	0.001104
11D	0.006911	6.28e-05	5.76e-05	-2.1e-04	0.037554	-0.00753
12D	0.006990	8.05e-05	5.92e-05	-2.7e-04	0.037981	-0.00715
13D	0.020676	1.62e-04	1.47e-04	-5.4e-04	0.112369	-0.02043
14D	0.020907	2.03e-04	1.51e-04	-6.8e-04	0.113617	-0.01960
15D	-4.1e-04	1.52e-04	-1.1e-05	-5.2e-04	-0.00221	-0.00126
16D	-4.6e-04	1.59e-04	-1.1e-05	-5.4e-04	-0.00246	-0.00133
17D	-0.00115	3.45e-04	-2.6e-05	-0.00118	-0.00616	-0.00325
18D	-0.00127	3.61e-04	-2.7e-05	-0.00123	-0.00681	-0.00341
19D	-6.1e-04	-2.1e-06	-1.6e-06	7.21e-06	-0.00333	7.72e-04
20D	-0.00226	-7.7e-06	-5.8e-06	2.65e-05	-0.01223	0.002835

Nodo 44

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.002318	-4.6e-06	-2.7e-04	1.98e-05	0.012825	8.62e-04
2S	0.001076	-6.3e-06	-2.1e-05	2.22e-05	0.005951	4.06e-04
1D	0.008255	-7.9e-05	-1.4e-05	2.78e-04	0.044867	-0.00694
2D	0.008207	-9.4e-05	-1.3e-05	3.27e-04	0.044610	-0.00691
3D	0.010238	-9.9e-05	-1.8e-05	3.46e-04	0.055644	-0.00864
4D	0.010179	-1.2e-04	-1.6e-05	4.07e-04	0.055325	-0.00861
5D	-3.8e-04	1.38e-04	-7.8e-06	-4.7e-04	-0.00206	-0.00263
6D	-3.7e-04	1.29e-04	-7.2e-06	-4.4e-04	-0.00198	-0.00269
7D	-4.8e-04	1.73e-04	-9.7e-06	-5.9e-04	-0.00255	-0.00327
8D	-4.6e-04	1.61e-04	-8.9e-06	-5.5e-04	-0.00246	-0.00335
9D	7.31e-04	-3.1e-06	-1.8e-06	1.06e-05	0.003963	-0.00146
10D	0.001026	-4.3e-06	-2.5e-06	1.49e-05	0.005560	-0.00205
11D	0.007072	-8.4e-05	-1.5e-05	2.94e-04	0.038430	-0.00724
12D	0.007029	-1.0e-04	-1.4e-05	3.47e-04	0.038200	0.007233
13D	0.021181	-2.1e-04	-3.7e-05	7.28e-04	0.115121	-0.01815
14D	0.021058	-2.5e-04	-3.5e-05	8.57e-04	0.114459	-0.01809
15D	-3.6e-04	1.62e-04	-8.9e-06	-5.5e-04	-0.00191	-0.00260
16D	-3.4e-04	1.51e-04	-8.3e-06	-5.2e-04	-0.00185	-0.00266
17D	-9.9e-04	3.67e-04	-2.1e-05	-0.00126	-0.00532	-0.00684
18D	-9.5e-04	3.42e-04	-1.9e-05	-0.00117	-0.00512	-0.00700
19D	6.85e-04	-3.0e-06	-1.7e-06	1.02e-05	0.003712	-0.00145
20D	0.002516	-1.1e-05	-6.3e-06	3.74e-05	0.013636	-0.00531

Nodo 45

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00123	2.49e-05	-4.2e-04	0.	-0.01388	-0.00294
2S	-5.7e-04	4.30e-06	-3.0e-05	0.	-0.00648	-0.00136
1D	0.006127	7.84e-05	1.01e-04	2.19e-16	0.051014	0.008916
2D	0.006219	9.60e-05	1.03e-04	2.95e-16	0.051581	-0.00920
3D	0.007604	9.76e-05	1.26e-04	2.72e-16	0.063270	0.011080
4D	0.007718	1.20e-04	1.28e-04	3.67e-16	0.063973	-0.01144
5D	6.39e-04	1.46e-04	-2.6e-05	-1.2e-16	-0.00281	0.001374
6D	6.93e-04	1.52e-04	-2.7e-05	-9.0e-17	-0.00312	0.001450
7D	7.95e-04	1.82e-04	-3.3e-05	-1.5e-16	-0.00349	0.001712
8D	8.62e-04	1.90e-04	-3.3e-05	-1.1e-16	-0.00387	0.001806
9D	-4.9e-04	-2.4e-06	-2.5e-06	-2.5e-17	-0.00417	6.65e-04
10D	-6.9e-04	-3.4e-06	-3.5e-06	-3.5e-17	-0.00584	9.32e-04
11D	0.005432	7.93e-05	1.03e-04	1.97e-16	0.043792	0.008503
12D	0.005520	9.92e-05	1.05e-04	2.76e-16	0.044262	-0.00888
13D	0.015769	2.04e-04	2.63e-04	5.64e-16	0.130919	0.023101
14D	0.016006	2.51e-04	2.69e-04	7.63e-16	0.132370	-0.02387
15D	-6.5e-04	1.71e-04	-3.0e-05	-1.4e-16	-0.00263	0.001443
16D	7.01e-04	1.78e-04	-3.1e-05	-9.8e-17	-0.00292	0.001517
17D	0.001666	3.86e-04	-6.9e-05	-3.2e-16	-0.00727	0.003598
18D	0.001807	4.04e-04	-7.1e-05	-2.4e-16	-0.00806	0.003795
19D	-4.7e-04	-2.4e-06	-2.4e-06	-2.6e-17	-0.00391	6.44e-04
20D	-0.00171	-8.8e-06	-8.8e-06	-9.6e-17	-0.01435	0.002365

Nodo 47						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-4.6e-04	4.67e-05	-4.5e-04	0.	-0.01513	-5.6e-04
2S	-2.1e-04	5.92e-06	-3.1e-05	0.	-0.00700	-2.6e-04
1D	0.005472	8.15e-05	1.20e-04	-1.2e-16	0.052583	0.001533
2D	0.005628	9.94e-05	1.22e-04	1.14e-16	0.053186	0.001534
3D	0.006799	1.01e-04	1.49e-04	-1.5e-16	0.065218	0.001905
4D	0.006993	1.24e-04	1.52e-04	1.42e-16	0.065966	0.001906
5D	-8.7e-04	1.49e-04	-3.4e-05	-1.1e-17	-0.00307	4.99e-04
6D	9.32e-04	1.56e-04	-3.4e-05	2.80e-16	-0.00330	5.30e-04
7D	-0.00108	1.86e-04	-4.2e-05	-1.3e-17	-0.00381	6.22e-04
8D	0.001161	1.95e-04	-4.3e-05	3.49e-16	-0.00411	6.62e-04
9D	-4.2e-04	-2.4e-06	-2.6e-06	-2.7e-17	-0.00422	-1.8e-04
10D	-5.9e-04	-3.4e-06	-3.6e-06	-3.7e-17	-0.00592	-2.5e-04
11D	0.005181	8.23e-05	1.22e-04	-1.0e-16	0.045225	0.001476
12D	0.005362	1.03e-04	1.25e-04	1.06e-16	0.045727	0.001473
13D	0.014168	2.12e-04	3.13e-04	-3.0e-16	0.134966	0.003974
14D	0.014580	2.60e-04	3.19e-04	2.95e-16	0.136510	0.003975
15D	-8.9e-04	1.75e-04	-3.9e-05	-1.3e-17	-0.00296	5.73e-04
16D	9.59e-04	1.82e-04	-4.0e-05	3.00e-16	-0.00315	6.09e-04
17D	-0.00226	3.95e-04	-9.0e-05	-2.8e-17	-0.00796	0.001319
18D	0.002436	4.13e-04	-9.1e-05	7.34e-16	-0.00856	0.001403
19D	-4.1e-04	2.42e-06	-2.5e-06	-2.6e-17	-0.00397	-1.8e-04
20D	-0.00149	8.88e-06	-9.2e-06	-9.5e-17	-0.01456	-6.5e-04

Nodo 48						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	8.11e-04	2.03e-05	-4.5e-04	0.	0.017908	2.37e-04
2S	3.72e-04	-4.1e-06	-3.2e-05	0.	0.008279	1.14e-04
1D	0.006679	-1.0e-04	1.18e-05	3.80e-16	0.062368	-0.00210
2D	0.006833	-1.2e-04	1.41e-05	1.58e-16	0.062134	-0.00206
3D	0.008295	-1.2e-04	1.47e-05	4.71e-16	0.077352	-0.00262
4D	0.008488	-1.4e-04	1.76e-05	1.96e-16	0.077061	-0.00257
5D	0.001389	1.58e-04	-3.1e-05	-1.4e-16	-0.00438	6.06e-04
6D	0.001440	1.47e-04	-2.8e-05	-2.0e-16	-0.00420	5.86e-04
7D	0.001727	1.97e-04	-3.8e-05	-1.7e-16	-0.00544	7.54e-04
8D	0.001790	1.84e-04	-3.5e-05	-2.5e-16	-0.00521	7.29e-04
9D	8.70e-04	-3.4e-06	-2.5e-06	-9.7e-18	0.005231	2.56e-04
10D	0.001219	-4.7e-06	-3.5e-06	-1.4e-17	0.007338	3.59e-04
11D	0.006189	-1.0e-04	1.18e-05	3.32e-16	0.053516	-0.00222
12D	0.006400	-1.2e-04	1.46e-05	1.46e-16	0.053325	-0.00218
13D	0.017255	-2.6e-04	3.07e-05	9.76e-16	0.160049	-0.00550
14D	0.017672	-3.0e-04	3.69e-05	4.08e-16	0.159450	-0.00540
15D	0.001359	1.84e-04	-3.6e-05	-1.6e-16	0.004099	6.21e-04
16D	0.001408	1.72e-04	-3.3e-05	-2.1e-16	-0.00390	5.93e-04
17D	0.003610	4.18e-04	-8.1e-05	-3.6e-16	-0.01133	0.001582
18D	0.003741	3.90e-04	-7.4e-05	-5.2e-16	-0.01085	0.001527
19D	8.66e-04	-3.2e-06	-2.4e-06	-9.7e-18	0.004931	2.57e-04
20D	0.003180	-1.2e-05	-8.7e-06	-3.6e-17	0.018112	9.45e-04

Nodo 49						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-5.7e-04	6.47e-05	-4.1e-04	0.	-0.00770	0.001084
2S	-2.7e-04	6.82e-06	-2.9e-05	0.	-0.00361	5.04e-04
1D	0.004418	7.55e-05	1.23e-04	-7.9e-17	0.033521	0.005805
2D	0.004514	9.22e-05	1.26e-04	-2.0e-16	0.033956	0.006251
3D	0.005485	9.40e-05	1.54e-04	-9.8e-17	0.041577	0.007230
4D	0.005606	1.15e-04	1.57e-04	-2.4e-16	0.042117	0.007787
5D	-5.8e-04	1.40e-04	-3.7e-05	-6.5e-17	-0.00230	-0.00136
6D	6.38e-04	1.46e-04	-3.7e-05	1.33e-16	-0.00247	-0.00143
7D	-7.2e-04	1.75e-04	-4.6e-05	-8.1e-17	-0.00286	-0.00170
8D	7.94e-04	1.82e-04	-4.7e-05	1.66e-16	-0.00307	-0.00178
9D	-3.3e-04	2.24e-06	-2.3e-06	2.38e-17	-0.00270	-4.7e-04
10D	-4.7e-04	3.15e-06	-3.3e-06	3.33e-17	-0.00379	-6.6e-04
11D	0.004052	7.62e-05	1.26e-04	-7.2e-17	0.028878	0.006108
12D	0.004158	9.51e-05	1.28e-04	-1.8e-16	0.029255	0.006636
13D	0.011404	1.97e-04	3.22e-04	-2.0e-16	0.086052	0.015202
14D	0.011657	2.41e-04	3.28e-04	-5.1e-16	0.087169	0.016386
15D	-5.9e-04	1.64e-04	-4.3e-05	-7.5e-17	-0.00223	-0.00145
16D	6.49e-04	1.71e-04	-4.3e-05	1.43e-16	-0.00238	-0.00151
17D	-0.00152	3.71e-04	-9.8e-05	-1.7e-16	-0.00597	-0.00357
18D	0.001666	3.87e-04	-9.9e-05	3.49e-16	-0.00641	-0.00374
19D	-3.2e-04	2.24e-06	-2.3e-06	2.39e-17	-0.00254	-4.8e-04
20D	-0.00116	8.23e-06	-8.4e-06	8.79e-17	-0.00933	-0.00175

Nodo 50						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.001061	4.15e-05	-4.0e-04	0.	0.013068	-0.00136
2S	4.87e-04	-1.8e-06	-2.7e-05	0.	0.006035	-6.3e-04
1D	0.005855	-9.6e-05	1.94e-05	-1.8e-16	0.044607	0.006426
2D	0.005929	-1.1e-04	2.28e-05	4.55e-16	0.044433	0.006879
3D	0.007267	-1.2e-04	2.41e-05	-2.2e-16	0.055325	0.008008
4D	0.007359	-1.4e-04	2.84e-05	5.65e-16	0.055109	0.008573
5D	-9.6e-04	1.48e-04	-3.3e-05	-2.5e-17	-0.00431	0.002071
6D	-9.9e-04	1.38e-04	-3.1e-05	2.07e-17	-0.00419	0.002130
7D	-0.00120	1.85e-04	-4.2e-05	-3.1e-17	-0.00535	0.002577
8D	-0.00123	1.72e-04	-3.8e-05	2.58e-17	-0.00521	0.002650
9D	6.11e-04	3.09e-06	-2.0e-06	-1.5e-17	0.003698	0.001279
10D	8.56e-04	4.34e-06	-2.9e-06	-2.2e-17	0.005187	0.001793

11D	0.005200	-1.0e-04	1.94e-05	-1.6e-16	0.038305	0.006933
12D	0.005310	-1.2e-04	2.34e-05	4.16e-16	0.038153	0.007452
13D	0.015070	-2.5e-04	5.04e-05	-4.6e-16	0.114479	0.016876
14D	0.015271	-2.9e-04	5.95e-05	1.17e-15	0.114031	0.018074
15D	-9.2e-04	1.73e-04	-3.9e-05	-2.9e-17	-0.00401	0.002093
16D	-9.5e-04	1.62e-04	-3.6e-05	2.44e-17	-0.00388	0.002148
17D	-0.00250	3.92e-04	-8.8e-05	-6.6e-17	-0.01114	0.005400
18D	-0.00257	3.66e-04	-8.1e-05	5.48e-17	-0.01084	0.005552
19D	5.94e-04	2.98e-06	-2.0e-06	-1.5e-17	0.003477	0.001305
20D	0.002182	1.09e-05	-7.2e-06	-5.4e-17	0.012770	0.004791

Nodo 51						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-6.2e-04	5.79e-05	-2.4e-04	-1.9e-04	-0.00344	-9.0e-04
2S	-2.9e-04	5.63e-06	-1.7e-05	-1.9e-05	-0.00160	-4.2e-04
1D	0.002622	6.40e-05	8.35e-05	-2.2e-04	0.014263	0.005546
2D	0.002654	7.76e-05	8.48e-05	-2.6e-04	0.014441	0.005749
3D	0.003252	7.96e-05	1.04e-04	-2.7e-04	0.017692	0.006886
4D	0.003293	9.67e-05	1.06e-04	-3.3e-04	0.017914	0.007139
5D	-2.2e-04	1.15e-04	-2.9e-05	-4.0e-04	0.001145	-0.00111
6D	2.41e-04	1.20e-04	-3.0e-05	-4.2e-04	0.001275	-0.00118
7D	-2.7e-04	1.43e-04	-3.7e-05	-5.0e-04	0.001423	-0.00138
8D	2.99e-04	1.50e-04	-3.7e-05	-5.2e-04	0.001585	-0.00147
9D	-2.0e-04	1.83e-06	-1.4e-06	-6.3e-06	-0.00109	-4.5e-04
10D	-2.8e-04	2.56e-06	-2.0e-06	-8.9e-06	-0.00153	-6.3e-04
11D	0.002274	6.46e-05	8.50e-05	-2.2e-04	0.012360	0.005048
12D	0.002301	8.01e-05	8.62e-05	-2.7e-04	0.012508	0.005287
13D	0.006735	1.67e-04	2.18e-04	-5.6e-04	0.036633	0.014307
14D	0.006818	2.03e-04	2.21e-04	-6.9e-04	0.037091	0.014844
15D	-2.1e-04	1.34e-04	-3.4e-05	-4.7e-04	-0.00111	-0.00118
16D	-2.4e-04	1.40e-04	-3.4e-05	-4.9e-04	-0.00125	-0.00126
17D	-5.6e-04	3.04e-04	-7.8e-05	-0.00105	-0.00297	-0.00291
18D	6.26e-04	3.18e-04	-7.9e-05	-0.00110	0.003313	-0.00310
19D	-1.9e-04	1.82e-06	-1.4e-06	-6.3e-06	-0.00102	-4.3e-04
20D	-6.9e-04	6.69e-06	-5.1e-06	-2.3e-05	-0.00376	-0.00157

Nodo 52						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.001210	4.05e-05	-2.3e-04	-1.2e-04	0.006697	6.99e-04
2S	5.57e-04	-6.6e-07	-1.5e-05	4.04e-06	0.003081	3.19e-04
1D	0.004444	-8.2e-05	1.99e-05	2.88e-04	0.024173	0.005851
2D	0.004428	-9.5e-05	2.28e-05	3.30e-04	0.024088	0.005904
3D	0.005512	-1.0e-04	2.48e-05	3.58e-04	0.029983	0.007266
4D	0.005493	-1.2e-04	2.84e-05	4.11e-04	0.029877	0.007332
5D	-6.5e-04	1.22e-04	-2.6e-05	-4.2e-04	-0.00351	-0.00116
6D	-6.4e-04	1.14e-04	-2.4e-05	-3.9e-04	-0.00347	-0.00123
7D	-8.1e-04	1.52e-04	-3.3e-05	-5.3e-04	-0.00436	-0.00145
8D	-8.0e-04	1.42e-04	-3.0e-05	-4.9e-04	-0.00432	-0.00153
9D	3.75e-04	2.54e-06	-1.1e-06	-8.8e-06	0.002040	6.93e-04
10D	5.26e-04	3.56e-06	-1.5e-06	-1.2e-05	0.002861	9.72e-04
11D	0.003835	-8.6e-05	2.02e-05	3.00e-04	0.020853	0.005404
12D	0.003821	-1.0e-04	2.36e-05	3.47e-04	0.020775	0.005484
13D	0.011409	-2.2e-04	5.20e-05	7.53e-04	0.062061	0.015112
14D	0.011370	-2.5e-04	5.97e-05	8.64e-04	0.061841	0.015256
15D	-6.1e-04	1.43e-04	-3.1e-05	-4.9e-04	-0.00328	-0.00116
16D	-6.0e-04	1.33e-04	-2.8e-05	-4.6e-04	-0.00324	-0.00122
17D	-0.00168	3.23e-04	-6.9e-05	-0.00112	-0.00908	-0.00302
18D	-0.00166	3.02e-04	-6.4e-05	-0.00104	-0.00899	-0.00319
19D	3.52e-04	2.45e-06	-1.0e-06	-8.5e-06	0.001911	6.85e-04
20D	0.001291	8.99e-06	-3.8e-06	-3.1e-05	0.007019	0.002516

1D	0.002907	-8.6e-05	4.17e-05	-1.6e-17	0.018267	0.002782
2D	0.002883	-9.8e-05	4.73e-05	-5.7e-16	0.018193	0.002795
3D	0.003607	-1.1e-04	5.19e-05	-2.0e-17	0.022664	0.003453
4D	0.003577	-1.2e-04	5.89e-05	-7.1e-16	0.022572	0.003468
5D	-6.5e-04	1.24e-04	-5.0e-05	2.77e-17	-0.00403	-6.5e-04
6D	-6.5e-04	1.15e-04	-4.6e-05	5.53e-17	-0.00405	-6.4e-04
7D	-8.1e-04	1.54e-04	-6.2e-05	3.46e-17	-0.00501	-8.0e-04
8D	-8.1e-04	1.44e-04	-5.7e-05	6.88e-17	-0.00503	-7.9e-04
9D	2.76e-04	2.56e-06	-1.4e-06	-4.9e-17	0.001736	2.78e-04
10D	3.87e-04	3.60e-06	-1.9e-06	-6.9e-17	0.002435	3.90e-04
11D	0.002570	-9.0e-05	4.27e-05	-1.5e-17	0.015992	0.002471
12D	0.002541	-1.0e-04	4.91e-05	-5.3e-16	0.015919	0.002493
13D	0.007478	-2.3e-04	1.09e-04	-4.2e-17	0.046959	0.007161
14D	0.007414	-2.6e-04	1.24e-04	-1.5e-15	0.046767	0.007195
15D	-6.3e-04	1.45e-04	-5.8e-05	3.21e-17	-0.00383	-6.5e-04
16D	-6.3e-04	1.35e-04	-5.4e-05	5.93e-17	-0.00385	-6.4e-04
17D	-0.00170	3.28e-04	-1.3e-04	7.34e-17	-0.01044	-0.00169
18D	-0.00169	3.06e-04	-1.2e-04	1.45e-16	-0.01050	-0.00166
19D	2.61e-04	2.48e-06	-1.4e-06	-4.8e-17	0.001631	2.71e-04
20D	9.59e-04	9.10e-06	-5.1e-06	-1.8e-16	0.005991	9.97e-04

Nodo 55

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-4.5e-05	6.55e-05	-2.5e-04	-1.9e-04	2.48e-04	-6.6e-04
2S	-1.8e-05	5.94e-06	-2.1e-05	-2.0e-05	7.43e-05	-2.9e-04
1D	0.001126	4.24e-05	1.13e-04	-1.4e-04	0.002522	0.002603
2D	0.001191	5.30e-05	1.13e-04	-1.8e-04	0.002665	-0.00286
3D	0.001401	5.28e-05	1.40e-04	-1.8e-04	0.003139	0.003242
4D	0.001482	6.60e-05	1.40e-04	-2.2e-04	0.003317	-0.00356
5D	2.52e-04	9.31e-05	-5.5e-05	-3.1e-04	5.40e-04	0.002409
6D	2.51e-04	9.71e-05	-5.6e-05	-3.2e-04	5.41e-04	0.002403
7D	3.15e-04	1.16e-04	-6.8e-05	-3.9e-04	6.74e-04	0.003003
8D	3.13e-04	1.21e-04	-7.0e-05	-4.0e-04	6.76e-04	0.002994
9D	-1.3e-05	1.43e-06	-1.8e-06	-4.9e-06	-3.4e-05	-1.9e-04
10D	-1.9e-05	2.00e-06	-2.5e-06	-6.8e-06	-4.7e-05	-2.7e-04
11D	0.001156	4.29e-05	1.15e-04	-1.4e-04	0.002582	0.002745
12D	0.001226	5.49e-05	1.15e-04	-1.8e-04	0.002736	-0.00303
13D	0.002939	1.11e-04	2.94e-04	-3.7e-04	0.006582	0.006817
14D	0.003110	1.39e-04	2.94e-04	-4.6e-04	0.006958	-0.00749
15D	2.90e-04	1.09e-04	-6.4e-05	-3.6e-04	6.20e-04	0.002615
16D	2.89e-04	1.14e-04	-6.6e-05	-3.8e-04	6.23e-04	0.002607
17D	6.67e-04	2.47e-04	-1.5e-04	-8.2e-04	0.001429	0.006331
18D	6.64e-04	2.57e-04	-1.5e-04	-8.6e-04	0.001432	0.006313
19D	-1.4e-05	1.42e-06	-1.8e-06	-4.8e-06	-3.4e-05	-1.8e-04
20D	-5.0e-05	5.23e-06	-6.6e-06	-1.8e-05	-1.2e-04	-6.7e-04

Nodo 56

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.99e-05	-2.7e-04	-4.8e-04	0.001378	0	-1.1e-04
2S	-1.6e-05	-1.3e-04	-3.5e-05	6.36e-04	0	-1.4e-05
1D	0.001199	0.001109	-5.6e-05	-0.00328	-4.2e-18	-6.6e-04
2D	0.001270	-0.00118	-6.5e-05	-0.00327	-2.3e-16	7.01e-04
3D	0.001493	0.001382	-6.9e-05	-0.00408	-5.2e-18	-8.2e-04
4D	0.001581	-0.00147	-8.1e-05	-0.00406	-2.8e-16	8.72e-04
5D	2.78e-04	0.001543	-5.3e-05	0.002406	-5.2e-17	0.001587
6D	2.77e-04	0.001545	-5.7e-05	0.002538	-1.1e-16	0.001588
7D	3.46e-04	0.001921	-6.6e-05	0.003002	-6.5e-17	0.001974
8D	3.46e-04	0.001924	-7.1e-05	0.003168	-1.3e-16	0.001975
9D	-1.4e-05	-9.7e-05	-2.7e-06	2.88e-04	-6.5e-18	-8.0e-05
10D	-2.0e-05	-1.4e-04	-3.8e-06	4.04e-04	-9.1e-18	-1.1e-04
11D	0.001231	0.001175	-5.6e-05	-0.00306	-3.6e-18	-6.4e-04
12D	0.001308	-0.00125	-6.7e-05	-0.00302	-2.1e-16	6.90e-04
13D	0.003132	0.002907	-1.5e-04	-0.00848	-1.1e-17	-0.00171
14D	0.003317	-0.00310	-1.7e-04	-0.00844	-5.8e-16	0.001823
15D	3.19e-04	0.001602	-6.2e-05	0.002767	-6.0e-17	0.001579
16D	3.19e-04	0.001605	-6.7e-05	0.002918	-1.1e-16	0.001580
17D	7.34e-04	0.004034	-1.4e-04	0.006364	-1.4e-16	0.004132
18D	7.33e-04	0.004041	-1.5e-04	0.006714	-2.8e-16	0.004133
19D	-1.5e-05	-9.2e-05	-2.7e-06	2.97e-04	-6.3e-18	-7.7e-05
20D	-5.3e-05	-3.4e-04	-9.9e-06	0.001090	-2.3e-17	-2.8e-04

Nodo 57

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.09e-04	7.04e-05	-2.4e-04	-2.5e-04	6.45e-04	8.49e-04
2S	-1.3e-06	3.27e-05	-1.0e-05	-1.1e-04	2.13e-04	3.62e-04
1D	0.001144	6.07e-05	-1.8e-04	-1.9e-04	0.002527	-0.00263
2D	0.001212	6.40e-05	-1.9e-04	-2.0e-04	0.002667	0.002750
3D	0.001424	7.55e-05	-2.2e-04	-2.4e-04	0.003144	-0.00328
4D	0.001509	7.96e-05	-2.3e-04	-2.5e-04	0.003319	0.003425
5D	2.64e-04	5.38e-05	2.31e-05	-1.9e-04	5.44e-04	-0.00477
6D	2.64e-04	5.40e-05	-2.3e-05	-1.9e-04	5.49e-04	-0.00477
7D	3.29e-04	6.71e-05	2.88e-05	-2.4e-04	6.79e-04	-0.00593
8D	3.29e-04	6.73e-05	-2.8e-05	-2.4e-04	6.85e-04	-0.00594
9D	-1.4e-05	4.37e-06	2.59e-06	1.48e-05	-4.2e-05	2.72e-04
10D	-1.9e-05	6.12e-06	3.63e-06	2.07e-05	-5.8e-05	3.81e-04
11D	0.001174	6.03e-05	-1.8e-04	-1.9e-04	0.002576	-0.00279
12D	0.001247	6.39e-05	-1.9e-04	-2.0e-04	0.002728	0.002913
13D	0.002988	1.58e-04	-4.6e-04	-5.0e-04	0.006591	-0.00690
14D	0.003165	1.67e-04	-4.9e-04	-5.3e-04	0.006960	0.007206
15D	3.03e-04	6.19e-05	2.52e-05	-2.2e-04	6.24e-04	-0.00485

16D	3.04e-04	6.20e-05	-2.5e-05	-2.2e-04	6.32e-04	-0.00486
17D	6.98e-04	1.42e-04	6.08e-05	-5.1e-04	0.001438	-0.001244
18D	6.98e-04	1.43e-04	-6.0e-05	-5.1e-04	0.001453	-0.001245
19D	-1.4e-05	-4.4e-06	2.60e-06	1.49e-05	-4.1e-05	2.56e-04
20D	-5.1e-05	-1.6e-05	9.54e-06	5.47e-05	-1.5e-04	9.40e-04

Nodo 58

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.17e-04	4.29e-05	-2.0e-04	-1.4e-04	0.002874	6.99e-04
2S	2.36e-04	4.00e-07	-1.1e-05	-9.7e-08	0.001312	3.52e-04
1D	0.001863	-7.6e-05	3.71e-05	2.70e-04	0.010176	0.002594
2D	0.001854	-8.7e-05	4.19e-05	3.08e-04	0.010130	0.002563
3D	0.002312	-9.5e-05	4.62e-05	3.36e-04	0.012629	0.003222
4D	0.002301	-1.1e-04	5.22e-05	3.83e-04	0.012571	0.003183
5D	-6.6e-04	1.06e-04	-4.2e-05	-3.7e-04	-0.00346	0.003148
6D	-6.6e-04	9.94e-05	-3.9e-05	-3.5e-04	-0.00348	0.003154
7D	-8.2e-04	1.33e-04	-5.3e-05	-4.7e-04	-0.00430	0.003916
8D	-8.2e-04	1.24e-04	-4.9e-05	-4.4e-04	-0.00433	0.003923
9D	1.99e-04	2.21e-06	-9.6e-07	-7.8e-06	0.001080	2.27e-04
10D	2.79e-04	3.10e-06	-1.4e-06	-1.1e-05	0.001515	3.19e-04
11D	0.001663	-7.9e-05	3.82e-05	2.81e-04	0.009059	0.002410
12D	0.001652	-9.1e-05	4.36e-05	3.22e-04	0.009007	0.002370
13D	0.004797	-2.0e-04	9.69e-05	7.06e-04	0.026198	0.006703
14D	0.004773	-2.3e-04	1.10e-04	8.05e-04	0.026076	0.006621
15D	-6.3e-04	1.24e-04	-5.0e-05	-4.4e-04	-0.00334	0.003141
16D	-6.4e-04	1.16e-04	-4.6e-05	-4.1e-04	-0.00336	0.003147
17D	-0.00170	2.82e-04	-1.1e-04	-9.9e-04	-0.00898	0.008198
18D	-0.00171	2.64e-04	-1.0e-04	-9.3e-04	-0.00903	0.008213
19D	1.87e-04	2.14e-06	-9.7e-07	-7.6e-06	0.001015	-2.3e-04
20D	6.87e-04	7.85e-06	-3.5e-06	-2.8e-05	0.003728	-8.3e-04

Nodo 59

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.0e-04	1.23e-04	-3.7e-04	0	0.001208	1.01e-04
2S	-7.3e-05	4.53e-05	-3.8e-05	0	5.27e-04	-3.9e-05
1D	8.15e-04	9.59e-05	-2.1e-04	-2.2e-17	-6.4e-04	0.002034
2D	8.33e-04	1.02e-04	-2.3e-04	-7.6e-16	-6.4e-04	0.002108
3D	0.001013	1.19e-04	-2.6e-04	-2.7e-17	-7.9e-04	0.002528
4D	0.001037	1.26e-04	-2.8e-04	-9.5e-16	-8.0e-04	0.002620
5D	0.001729	6.80e-05	4.26e-05	-2.3e-16	-1.0e-03	-0.00322
6D	0.001735	6.84e-05	-4.4e-05	7.59e-17	-9.7e-04	-0.00324
7D	0.002151	8.49e-05	5.32e-05	-2.8e-16	-0.00124	-0.00401
8D	0.002158	8.53e-05	-5.4e-05	9.46e-17	-0.00121	-0.00404
9D	-7.9e-05	5.85e-06	4.51e-06	2.57e-17	9.97e-05	1.36e-04
10D	-1.1e-04	8.20e-06	6.33e-06	3.60e-17	1.40e-04	1.91e-04
11D	8.10e-04	9.49e-05	-2.1e-04	-1.9e-17	-7.1e-04	0.001958
12D	8.29e-04	1.01e-04	-2.3e-04	-7.0e-16	-7.1e-04	0.002040
13D	0.002120	2.49e-04	-5.5e-04	-5.6e-17	-0.00168	0.005275
14D	0.002169	2.65e-04	-5.9e-04	-2.0e-15	-0.00168	0.005469
15D	0.001725	7.83e-05	-4.9e-05	-2.6e-16	-0.00114	-0.00323
16D	0.001732	7.86e-05	-5.0e-05	8.15e-17	-0.00111	-0.00325
17D	0.004503	1.80e-04	1.13e-04	-6.0e-16	-0.00263	-0.00840
18D	0.004518	1.81e-04	-1.2e-04	1.99e-16	-0.00257	-0.00845
19D	-7.4e-05	-5.8e-06	4.34e-06	2.52e-17	1.19e-04	1.29e-04
20D	-2.7e-04	-2.1e-05	1.60e-05	9.25e-17	4.38e-04	4.75e-04

Nodo 60

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.44e-04	5.12e-05	-2.8e-04	0	8.34e-04	7.61e-05</

6D	-1.7e-05	7.35e-05	-4.7e-05	-2.0e-04	-6.2e-05	0.010887
7D	-2.2e-05	9.12e-05	-5.8e-05	-2.5e-04	-8.0e-05	0.013511
8D	-2.1e-05	9.18e-05	-5.9e-05	-2.5e-04	-7.8e-05	0.013542
9D	3.41e-06	6.33e-06	-4.1e-06	-1.7e-05	1.17e-05	-4.9e-04
10D	4.78e-06	8.88e-06	-5.8e-06	-2.4e-05	1.64e-05	-6.8e-04
11D	5.73e-05	1.11e-04	-1.2e-04	-2.4e-04	2.37e-04	0.003466
12D	5.99e-05	1.19e-04	-1.3e-04	-2.5e-04	2.48e-04	0.003516
13D	1.50e-04	2.92e-04	-3.1e-04	-6.3e-04	6.16e-04	0.009128
14D	1.56e-04	3.10e-04	-3.3e-04	-6.7e-04	6.44e-04	0.009262
15D	-1.8e-05	8.41e-05	-5.4e-05	-2.3e-04	-7.0e-05	0.010796
16D	-1.8e-05	8.45e-05	-5.5e-05	-2.3e-04	-6.7e-05	0.010825
17D	-4.5e-05	1.93e-04	-1.2e-04	-5.3e-04	-1.7e-04	0.028275
18D	-4.5e-05	1.94e-04	-1.3e-04	-5.3e-04	-1.6e-04	0.028341
19D	3.26e-06	-6.3e-06	-3.9e-06	1.71e-05	1.12e-05	-4.6e-04
20D	1.20e-05	-2.3e-05	-1.4e-05	6.27e-05	4.11e-05	-0.00168

Nodo 62						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.18e-05	-6.2e-04	-4.8e-04	6.40e-04	0.	-0.00124
2S	4.22e-06	-3.3e-04	-4.9e-05	2.45e-04	0.	-5.9e-04
1D	8.80e-05	-0.00478	-1.2e-04	0.002734	1.60e-16	-0.00792
2D	9.20e-05	-0.00486	-1.2e-04	0.002740	-4.3e-16	-0.00803
3D	1.09e-04	-0.00595	-1.4e-04	0.003403	1.99e-16	-0.00985
4D	1.14e-04	-0.00604	-1.5e-04	0.003410	-5.3e-16	-0.00998
5D	-2.6e-05	0.014758	-9.2e-05	0.004762	-3.5e-17	0.022929
6D	-2.6e-05	0.014776	-9.0e-05	-0.00476	9.58e-18	0.022956
7D	-3.3e-05	0.018357	-1.1e-04	0.005926	-4.3e-17	0.028522
8D	-3.2e-05	0.018379	-1.1e-04	-0.00592	1.19e-17	0.028554
9D	5.21e-06	-6.9e-04	-4.7e-06	2.57e-04	-4.5e-18	-0.00110
10D	7.31e-06	-9.7e-04	-6.7e-06	3.61e-04	-6.4e-18	-0.00154
11D	8.74e-05	0.004627	-1.1e-04	0.002800	1.40e-16	-0.00757
12D	9.18e-05	-0.00470	-1.2e-04	0.002799	-3.9e-16	-0.00769
13D	2.29e-04	-0.01242	-3.0e-04	0.007138	4.12e-16	-0.02054
14D	2.40e-04	-0.01261	-3.2e-04	0.007152	-1.1e-15	-0.02083
15D	-2.8e-05	0.014650	-1.1e-04	0.004806	-4.0e-17	0.022763
16D	-2.8e-05	0.014667	-1.0e-04	-0.00480	1.03e-17	0.022789
17D	-6.9e-05	0.038414	-2.4e-04	0.012416	-9.2e-17	0.059684
18D	-6.8e-05	0.038459	-2.4e-04	-0.01240	2.51e-17	0.059752
19D	4.98e-06	-6.5e-04	-4.6e-06	2.46e-04	-4.5e-18	-0.00103
20D	1.83e-05	-0.00237	-1.7e-05	9.03e-04	-1.6e-17	-0.00378

Nodo 63						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.00e-04	-7.6e-04	-4.4e-04	0.001237	0.	9.30e-04
2S	6.39e-06	-4.0e-04	-3.1e-05	5.43e-04	0.	4.35e-04
1D	1.03e-04	-0.00529	-1.9e-05	0.004590	5.45e-17	-0.00681
2D	1.08e-04	-0.00536	-2.1e-05	0.004609	-2.3e-16	0.006938
3D	1.28e-04	-0.00658	-2.4e-05	0.005700	6.76e-17	-0.00847
4D	1.34e-04	-0.00666	-2.6e-05	0.005724	-2.9e-16	0.008626
5D	-3.2e-05	0.015252	-1.1e-04	0.004715	-4.7e-17	-0.02185
6D	-3.1e-05	0.015271	-1.0e-04	-0.00471	-2.0e-17	-0.02188
7D	-4.0e-05	0.018972	-1.4e-04	0.005867	-5.9e-17	-0.02718
8D	-3.8e-05	0.018995	-1.3e-04	-0.005895	-2.5e-17	-0.02721
9D	5.90e-06	-7.6e-04	-2.6e-06	5.25e-04	-7.7e-18	9.40e-04
10D	8.28e-06	-0.00107	-3.6e-06	7.36e-04	-1.1e-17	0.001318
11D	1.02e-04	-0.00506	-2.1e-05	0.004241	4.77e-17	-0.00662
12D	1.08e-04	-0.00514	-2.2e-05	0.004264	-2.1e-16	-0.00675
13D	2.68e-04	-0.01372	-5.1e-05	0.011857	1.40e-16	-0.01769
14D	2.80e-04	-0.01389	-5.4e-05	0.011908	-6.0e-16	0.018018
15D	-3.5e-05	0.015137	-1.3e-04	0.004751	-5.4e-17	-0.02170
16D	-3.3e-05	0.015155	-1.2e-04	-0.00474	-2.2e-17	-0.02173
17D	-8.4e-05	0.039699	-2.9e-04	0.012291	-1.2e-16	-0.05688
18D	-8.0e-05	0.039747	-2.7e-04	-0.01228	-5.3e-17	-0.05695
19D	5.64e-06	-7.1e-04	-2.6e-06	4.93e-04	-7.6e-18	8.80e-04
20D	2.07e-05	-0.00263	-9.4e-06	0.001811	-2.8e-17	0.003232

Nodo 64						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.39e-04	5.38e-05	-1.9e-04	-1.5e-04	2.97e-04	8.54e-04
2S	7.20e-06	1.25e-06	-7.8e-06	-1.8e-06	2.34e-05	4.38e-04
1D	9.75e-05	-6.8e-05	6.54e-05	2.30e-04	4.87e-04	0.004991
2D	1.02e-04	-7.7e-05	7.37e-05	2.61e-04	5.11e-04	0.005017
3D	1.21e-04	-8.5e-05	8.14e-05	2.86e-04	6.06e-04	0.006201
4D	1.26e-04	-9.6e-05	9.18e-05	3.25e-04	6.36e-04	0.006234
5D	3.90e-05	9.12e-05	-7.7e-05	-3.1e-04	-1.9e-04	-0.01144
6D	-3.6e-05	8.52e-05	-7.1e-05	-2.9e-04	-1.8e-04	-0.01147
7D	4.87e-05	1.14e-04	-9.6e-05	-3.8e-04	-2.3e-04	-0.01423
8D	-4.4e-05	1.06e-04	-8.8e-05	-3.6e-04	-2.3e-04	-0.01426
9D	6.26e-06	1.91e-06	-1.6e-06	-6.5e-06	3.92e-05	7.33e-04
10D	8.79e-06	2.68e-06	-2.2e-06	-9.1e-06	5.50e-05	0.001028
11D	9.74e-05	-7.1e-05	6.78e-05	2.38e-04	4.90e-04	0.004697
12D	1.02e-04	-8.1e-05	7.70e-05	2.73e-04	5.16e-04	0.004726
13D	2.54e-04	-1.8e-04	1.71e-04	6.00e-04	0.001269	0.012919
14D	2.65e-04	-2.0e-04	1.93e-04	6.82e-04	0.001332	0.012988
15D	4.35e-05	1.07e-04	-9.0e-05	-3.6e-04	-2.0e-04	-0.01134
16D	-3.9e-05	9.97e-05	-8.3e-05	-3.3e-04	-1.9e-04	-0.01138
17D	1.03e-04	2.42e-04	-2.0e-04	-8.1e-04	-4.9e-04	-0.02977
18D	-9.3e-05	2.26e-04	-1.9e-04	-7.6e-04	-4.8e-04	-0.02985
19D	5.99e-06	1.85e-06	-1.6e-06	-6.3e-06	3.73e-05	6.87e-04
20D	2.20e-05	6.80e-06	-5.7e-06	-2.3e-05	1.37e-04	0.002523

Nodo 65						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-3.3e-05	-6.7e-05	-2.8e-04	-1.3e-04	-1.7e-05	0.004980
2S	1.49e-06	-7.7e-06	-2.2e-05	-1.4e-05	3.56e-06	0.002337
1D	6.51e-04	5.87e-05	1.80e-04	2.97e-05	6.57e-04	-0.02084
2D	6.44e-04	8.25e-05	1.87e-04	2.97e-05	6.52e-04	-0.02086
3D	8.10e-04	7.31e-05	2.24e-04	3.69e-05	8.17e-04	-0.02585
4D	8.01e-04	1.03e-04	2.32e-04	3.68e-05	8.11e-04	-0.02588
5D	7.76e-05	2.13e-04	9.29e-05	-3.0e-05	8.04e-05	0.003609
6D	-8.8e-05	2.23e-04	9.05e-05	-3.1e-05	8.45e-05	0.003667
7D	9.67e-05	2.66e-04	1.16e-04	-3.8e-05	1.00e-04	0.004489
8D	-1.1e-04	2.78e-04	1.13e-04	-3.9e-05	1.05e-04	0.004562
9D	-8.8e-06	-3.9e-06	-3.2e-06	-3.2e-06	-9.0e-06	-0.00192
10D	-1.2e-05	-5.5e-06	-4.5e-06	-4.4e-06	-1.3e-05	-0.00269
11D	6.54e-04	5.97e-05	1.82e-04	2.74e-05	6.56e-04	-0.01822
12D	6.45e-04	8.65e-05	1.89e-04	2.73e-05	6.49e-04	-0.01822
13D	0.001696	1.53e-04	4.69e-04	7.68e-05	0.001710	-0.05356
14D	0.001677	2.16e-04	4.87e-04	7.66e-05	0.001698	-0.05362
15D	8.56e-05	2.50e-04	1.09e-04	-3.5e-05	8.94e-05	0.003612
16D	-1.0e-04	2.61e-04	1.06e-04	-3.6e-05	9.59e-05	0.003659
17D	2.04e-04	5.65e-04	2.46e-04	-8.0e-05	2.12e-04	0.009398
18D	-2.3e-04	5.91e-04	2.40e-04	-8.3e-05	2.23e-04	0.009547
19D	-8.4e-06	-3.8e-06	-3.1e-06	-3.0e-06	-8.6e-06	-0.00179
20D	-3.1e-05	-1.4e-05	-1.1e-05	-1.1e-05	-3.2e-05	-0.00659

Nodo 66						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.2e-05	0.002176	-2.6e-04	-0.00261	-4.1e-05	0.004540
2S	3.20e-06	0.001040	-2.2e-05	-0.00124	1.24e-07	0.002110
1D	6.50e-04	-0.00870	-9.8e-05	0.010629	6.51e-04	-0.01628
2D	6.42e-04	-0.00870	-9.0e-05	0.010624	6.46e-04	-0.01623
3D	8.08e-04	-0.01080	-1.2e-04	0.013188	8.10e-04	-0.02020
4D	7.99e-04	-0.01079	-1.1e-04	0.013180	8.03e-04	-0.02014
5D	7.62e-05	0.001840	7.14e-05	-0.00228	8.09e-05	0.004445
6D	-8.9e-05	0.001845	7.94e-05	-0.00229	8.53e-05	0.004344
7D	9.50e-05	0.002291	8.92e-05	-0.00284	1.01e-04	0.005538
8D	-1.1e-04	0.002297	9.91e-05	-0.00285	1.06e-04	0.005411
9D	-8.8e-06	-8.1e-04	-3.8e-06	0.001017	-8.4e-06	-0.00153
10D	-1.2e-05	-0.00114	-5.3e-06	0.001427	-1.2e-05	-0.00214
11D	6.53e-04	-0.00763	-9.8e-05	0.009316	6.53e-04	-0.01433
12D	6.42e-04	-0.00761	-8.8e-05	0.009295	6.45e-04	-0.01425
13D	0.001692	-0.02238	-2.5e-04	0.027327	0.001696	-0.04186
14D	0.001672	-0.02236	-2.3e-04	0.027309	0.001681	-0.04173
15D	8.39e-05	0.001899	8.35e-05	-0.00232	8.99e-05	0.004750
16D	-1.0e-04	0.001896	9.26e-05	-0.00232	9.67e-05	0.004610
17D	2.01e-04	0.004807	1.89e-04	-0.00595	2.13e-04	0.011657
18D	-2.3e-04	0.004818	2.10e-04	-0.00597	2.25e-04	0.011384
19D	-8.5e-06	-7.6e-04	-3.6e-06	9.52e-04	-8.0e-06	-0.00143
20D	-3.1e-05	-0.00279	-1.3e-05	0.003498	-3.0e-05	-0.00525

Nodo 67						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	9.58e-05	-0.00833	-2.8e-04	0.012247	1.18e-04	0.005411
2S	2.59e-05	-0.00378	-2.0e-05	0.005552	1.68e-05	0.002497
1D	8.23e-04	-0.00557	2.34e-04	0.007375	3.72e-04	0.009385
2D	8.08e-04	-0.00562	2.28e-04	0.007450	3.70e-04	0.009688
3D	0.001024	-0.00692	2.92e-04	0.009165	4.63e-04	0.011661
4D	0.001006	-0.00699	2.84e-04	0.009258	4.60e-04	0.012040
5D	1.05e-04	0.013129	5.96e-05	-0.01737	-4.3e-05	-0.00305
6D	1.27e-04	0.013120	5.69e-05	-0.01735	-5.0e-05	-0.00300
7D	1.31e-04	0.016315	7.43e-05	-0.02158	-5.4e-05	-0.00380
8D	1.59e-04	0.016304	7.11e-05	-0.02156	-6.3e-05	-0.00373
9D	-1.1e-05	-0.00412	-2.9e-06	0.005502	-5.4e-06	0.001117
10D	-1.6e-05	-0.00577	-4.1e-06	0.007718	-7.6e-06	0.001566
11D	8.31e-04	-0.00532	2.36e-04	0.007015	3.76e-04	0.008897
12D	8.11e-04	-0.00538	2.28e-04	0.007092	3.72e-04	0.009278
13D	0.002146	-0.01444	6.11e-04	0.019111	9.69e-04	0.024302
14D	0.002105	-0.01458	5.95e-04	0.019306	9.63e-04	0.025111
15D	1.16e-04	0.012455	6.89e-05	-0.01646	4.75e-05	-0.00320
16D	1.45e-04	0.012448	6.62e-05	-0.01645	-5.7e-05	-0.00314
17D	2.77e-04	0.034015	1.58e-04	-0.04499	-1.1e-04	-0.00799
18D	3.36e-04	0.033992	1.51e-04	-0.04496	-1.3e-04	-0.00784
19D	-1.1e-05	-0.00385	-2.8e-06	0.005152	-5.2e-06	0.001094
20D	-4.0e-05	-0.01416	-1.0e-05	0.018924	-1.9e-05	0.004019

11D	8.18e-04	-0.00612	8.63e-05	0.007706	3.06e-04	0.009713
12D	7.98e-04	-0.00597	8.10e-05	0.007550	3.05e-04	0.010158
13D	0.002110	-0.01727	2.25e-04	0.021773	7.89e-04	0.026495
14D	0.002071	-0.01687	2.13e-04	0.021330	7.88e-04	0.027452
15D	1.13e-04	0.012301	6.57e-05	-0.01603	-4.3e-05	-0.00432
16D	1.42e-04	0.012289	6.09e-05	-0.01602	-4.8e-05	-0.00433
17D	2.68e-04	0.033660	1.49e-04	-0.04387	-1.0e-04	-0.01063
18D	3.29e-04	0.033626	1.38e-04	-0.04384	-1.1e-04	-0.01065
19D	-1.1e-05	-0.00390	-2.2e-06	0.005109	-4.3e-06	0.001281
20D	-4.0e-05	-0.01433	-8.0e-06	0.018767	-1.6e-05	0.004703

Nodo 69

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.18e-04	-0.00181	-4.3e-04	0.002960	0.	0.004375
2S	2.75e-05	-7.7e-04	-3.9e-05	0.001304	0.	0.002007
1D	7.89e-04	0.009062	-1.6e-04	-0.00933	8.91e-18	0.004145
2D	7.75e-04	0.008918	-1.6e-04	-0.00913	3.15e-17	0.004231
3D	9.82e-04	0.011247	-2.0e-04	-0.01158	1.11e-17	0.005155
4D	9.64e-04	0.011069	-2.0e-04	-0.01133	3.91e-17	0.005262
5D	9.90e-05	0.008680	7.68e-05	-0.00900	-3.9e-17	-0.00948
6D	1.21e-04	0.008657	7.30e-05	-0.00895	-5.3e-17	-0.00948
7D	1.23e-04	0.010786	9.59e-05	-0.01118	-4.9e-17	-0.01178
8D	1.51e-04	0.010758	9.12e-05	-0.01112	-6.6e-17	-0.01178
9D	-1.1e-05	-0.00301	-4.7e-06	0.003121	5.80e-18	0.002829
10D	-1.5e-05	-0.00423	-6.6e-06	0.004378	8.13e-18	0.003968
11D	7.97e-04	0.008097	-1.6e-04	-0.00827	7.81e-18	0.004091
12D	7.78e-04	0.007996	-1.7e-04	-0.00810	2.90e-17	0.004181
13D	0.002056	0.023337	-4.1e-04	-0.02401	2.29e-17	0.010781
14D	0.002018	0.022973	-4.3e-04	-0.02350	8.14e-17	0.011006
15D	1.09e-04	0.008219	8.95e-05	-0.00854	-4.5e-17	-0.00902
16D	1.38e-04	0.008198	8.52e-05	-0.00847	-5.7e-17	-0.00902
17D	2.61e-04	0.022484	2.04e-04	-0.02332	-1.0e-16	-0.02457
18D	3.20e-04	0.022426	1.94e-04	-0.02318	-1.4e-16	-0.02457
19D	-1.1e-05	-0.00283	4.42e-06	0.002924	5.69e-18	0.002651
20D	-3.9e-05	-0.01038	1.62e-05	0.010739	2.09e-17	0.009739

Nodo 70

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.25e-04	-1.2e-04	-4.2e-04	-7.3e-05	-1.6e-04	-6.7e-04
2S	2.88e-05	-2.5e-05	-4.3e-05	-8.9e-07	-1.8e-05	-3.8e-04
1D	8.23e-04	-1.5e-04	-3.4e-04	7.73e-05	-3.3e-04	-0.01839
2D	8.08e-04	-1.7e-04	-3.5e-04	7.95e-05	-3.2e-04	-0.01815
3D	0.001023	-1.8e-04	-4.3e-04	9.62e-05	-4.1e-04	-0.02282
4D	0.001005	-2.2e-04	-4.4e-04	9.90e-05	-4.0e-04	-0.02252
5D	1.03e-04	2.32e-04	9.86e-05	-3.1e-05	-6.1e-05	-0.01020
6D	1.26e-04	2.16e-04	9.56e-05	-3.0e-05	-7.5e-05	-0.01014
7D	1.29e-04	2.90e-04	1.23e-04	-3.9e-05	-7.6e-05	-0.01267
8D	1.57e-04	2.70e-04	1.19e-04	-3.7e-05	-9.4e-05	-0.01260
9D	-1.1e-05	-6.8e-06	6.98e-06	-1.7e-06	4.76e-06	0.003919
10D	-1.6e-05	-9.5e-06	9.79e-06	-2.4e-06	6.68e-06	0.005497
11D	8.31e-04	-1.6e-04	-3.5e-04	7.84e-05	-3.4e-04	-0.01617
12D	8.11e-04	-1.8e-04	-3.6e-04	8.07e-05	-3.2e-04	-0.01599
13D	0.002144	-3.9e-04	-9.0e-04	2.01e-04	-8.6e-04	-0.04730
14D	0.002104	-4.5e-04	-9.2e-04	2.07e-04	-8.3e-04	-0.04668
15D	1.14e-04	2.72e-04	1.14e-04	-3.6e-05	-6.9e-05	-0.00968
16D	1.44e-04	2.53e-04	1.11e-04	-3.5e-05	-8.7e-05	-0.00962
17D	2.72e-04	6.16e-04	2.61e-04	-8.3e-05	-1.6e-04	-0.02642
18D	3.33e-04	5.74e-04	2.53e-04	-7.9e-05	-2.0e-04	-0.02627
19D	-1.1e-05	-6.5e-06	6.63e-06	-1.6e-06	4.60e-06	0.003682
20D	-4.0e-05	-2.4e-05	2.43e-05	-6.0e-06	1.69e-05	0.013524

Nodo 71

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00161	-5.3e-05	-3.0e-04	0.	-0.00197	0.005980
2S	-7.4e-04	-6.5e-06	-2.2e-05	0.	-9.2e-04	0.002816
1D	0.007185	5.35e-05	1.51e-04	3.27e-16	0.010133	-0.02608
2D	0.007217	7.67e-05	1.57e-04	4.30e-16	0.010174	-0.02620
3D	0.008914	6.66e-05	1.88e-04	4.05e-16	0.012571	-0.03236
4D	0.008954	9.55e-05	1.95e-04	5.34e-16	0.012622	-0.03250
5D	-1.0e-03	2.07e-04	7.37e-05	-3.6e-17	-0.00129	0.003483
6D	-0.00102	2.16e-04	7.15e-05	-6.1e-17	-0.00134	0.003588
7D	-0.00124	2.58e-04	9.21e-05	-4.5e-17	-0.00161	0.004329
8D	-0.00127	2.70e-04	8.93e-05	-7.6e-17	-0.00167	0.004459
9D	6.21e-04	-3.8e-06	-3.0e-06	-4.4e-17	-8.0e-04	-0.00237
10D	8.71e-04	-5.3e-06	-4.2e-06	-6.1e-17	-0.00113	-0.00333
11D	0.006269	5.45e-05	1.53e-04	2.86e-16	0.008837	-0.02268
12D	0.006301	8.06e-05	1.59e-04	3.96e-16	0.008876	-0.02279
13D	0.018465	1.40e-04	3.94e-04	8.40e-16	0.026040	-0.06701
14D	0.018549	2.01e-04	4.09e-04	1.11e-15	0.026147	-0.06731
15D	-9.7e-04	2.42e-04	8.61e-05	-4.1e-17	-0.00131	0.003334
16D	-9.9e-04	2.53e-04	8.35e-05	-6.5e-17	-0.00136	0.003418
17D	-0.00259	5.49e-04	1.95e-04	-9.5e-17	-0.00337	0.009030
18D	-0.00265	5.74e-04	1.90e-04	-1.6e-16	-0.00349	0.009298
19D	5.81e-04	-3.7e-06	-2.9e-06	-4.3e-17	-7.5e-04	-0.00222
20D	0.002135	-1.3e-05	-1.1e-05	-1.6e-16	-0.00276	-0.00816

Nodo 72

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	6.83e-04	-9.9e-05	-4.0e-04	0.	0.002914	-0.00321
2S	3.08e-04	-2.3e-05	-3.9e-05	0.	0.001337	-0.00156

1D	0.006349	-1.4e-04	-2.9e-04	-1.7e-16	0.007609	-0.02242
2D	0.006261	-1.6e-04	-2.9e-04	-4.6e-16	0.007509	-0.02213
3D	0.007876	-1.7e-04	-3.6e-04	-2.1e-16	0.009439	-0.02781
4D	0.007767	-2.0e-04	-3.6e-04	-5.7e-16	0.009315	-0.02745
5D	0.002423	2.25e-04	7.60e-05	-2.0e-16	0.002817	-0.00731
6D	0.002403	2.10e-04	7.41e-05	-4.9e-17	0.002786	-0.00722
7D	0.003010	2.82e-04	9.49e-05	-2.5e-16	0.003499	-0.00908
8D	0.002986	2.62e-04	9.24e-05	-6.1e-17	0.003461	-0.00897
9D	-0.00101	-6.5e-06	5.91e-06	1.61e-17	-0.00120	0.003194
10D	-0.00142	-9.1e-06	8.29e-06	2.25e-17	-0.00168	0.004480
11D	0.005527	-1.5e-04	-2.9e-04	-1.5e-16	0.006604	-0.01944
12D	0.005449	-1.7e-04	-2.9e-04	-4.2e-16	0.006514	-0.01919
13D	0.016313	-3.6e-04	-7.4e-04	-4.4e-16	0.019546	-0.05758
14D	0.016087	-4.3e-04	-7.6e-04	-1.2e-15	0.019289	-0.05685
15D	0.002266	2.64e-04	8.78e-05	-2.3e-16	0.002632	-0.00682
16D	0.002250	2.46e-04	8.57e-05	-5.2e-17	0.002603	-0.00673
17D	0.006268	5.98e-04	2.01e-04	-5.3e-16	0.007286	-0.01890
18D	0.006218	5.57e-04	1.96e-04	-1.3e-16	0.007208	-0.01866
19D	-9.5e-04	-6.2e-06	5.61e-06	1.58e-17	-0.00112	0.002990
20D	-0.00349	-2.3e-05	2.06e-05	5.78e-17	-0.00411	0.010984

Nodo 73

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00367	-4.1e-05	-3.3e-04	-9.8e-05	-0.00500	0.008340
2S	-0.00171	-5.5e-06	-2.5e-05	-5.6e-06	-0.00233	0.003902
1D	0.015732	5.00e-05	1.38e-04	-2.0e-05	0.019826	-0.03342
2D	0.015809	7.31e-05	1.43e-04	-2.1e-05	0.019901	-0.03360
3D	0.019516	6.22e-05	1.72e-04	-2.5e-05	0.024594	-0.04146
4D	0.019612	9.10e-05	1.78e-04	-2.6e-05	0.024687	-0.04168
5D	-0.00196	2.06e-04	6.35e-05	-2.4e-05	-0.00239	0.003744
6D	-0.00204	2.15e-04	6.13e-05	-2.4e-05	-0.00247	0.003957
7D	-0.00244	2.57e-04	7.92e-05	-3.0e-05	-0.00297	0.004652
8D	-0.00253	2.69e-04	7.65e-05	-3.0e-05	-0.00307	0.004916
9D	0.001389	-3.7e-06	-3.1e-06	-7.1e-07	0.001728	0.002977
10D	0.001948	-5.2e-06	-4.3e-06	-1.0e-06	0.002425	0.004176
11D	0.013673	5.10e-05	1.40e-04	-2.0e-05	0.017189	-0.02893
12D	0.013752	7.70e-05	1.45e-04	-2.1e-05	0.017260	-0.02911
13D	0.040416	1.30e-04	3.60e-04	-5.3e-05	0.050925	-0.08584
14D	0.040619	1.91e-04	3.73e-04	-5.5e-05	0.051118	-0.08630
15D	-0.00186	2.41e-04	7.40e-05	-2.8e-05	-0.00226	0.003531
16D	-0.00193	2.52e-04	7.16e-05	-2.8e-05	-0.00234	0.003735
17D	-0.00509	5.45e-04	1.68e-04	-6.5e-05	-0.00619	0.009693
18D	-0.00527	5.70e-04	1.62e-04	-6.4e-05	-0.00641	0.010245
19D	0.001301	-3.6e-06	-2.9e-06	-6.8e-07	0.001618	0.002789
20D	0.004777	-1.3e-05	-1.1e-05	-2.5e-06	0.005944	0.010244

Nodo 74

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.002074	-8.4e-05	-4.2e-04	-5.4e-05	0.002921	-0.00646
2S	9.73e-04	-2.2e-05	-3.9e-05	1.39e-07	0.001374	-0.00307
1D	0.013678	-1.3e-04	-2.5e-04	8.49e-05	0.017282	-0.02884
2D	0.013510	-1.6e-04	-2.6e-04	8.69e-05	0.017068	-0.02859
3D	0.016967	-1.6e-04	-3.1e-04	1.06e-04	0.021437	-0.03577
4D	0.016758	-1.9e-04	-3.2e-04	1.08e-04	0.021171	-0.03547
5D	0.004345	2.24e-04	6.35e-05	-3.0e-05	0.005248	0.007446
6D	0.004290	2.08e-04	6.21e-05	-2.9e-05	0.005190	0.007334
7D	0.005397	2.79e-04	7.93e-05	-3.7e-05	0.006519	0.009252
8D	0.005329	2.60e-04	7.75e-05	-3.6e-05	0.006447	0.009113
9D	-0.00191	-6.3e-06	5.48e-06	-1.5e-06	-0.00233	0.003247
10D	-0.00268	-8.8e-06	7.68e-06	-2.1e-06	-0.00328	0.004555
11D	0.011856	-1.4e-04	-2.6e-04	8.58e-05	0.014950	-0.02496
12D	0.011709	-1.7e-04	-2.6e-04	8.79e-05	0.014763	-0.02476
13D	0.035132	-3.5e-04	-6.6e-04	2.21e-04	0.044380	-0.07406
14D	0.034699	-4.1e-04	-6.7e-04	2.27e-04	0.043830	-0.07343
15D	0.004047	2.62e-04	7.32e-05	-3.5e-05	0.004880	0.007002
16D	0.003994	2.44e-04	7.18e-05	-3.3e-05	0.004824	0.006892
17D	0.011236	5.93e-04	1.68e-04	-7.9e-05	0.013571	0.019274
18D	0.011094	5.52e-04	1.64e-04	-7.6e-05	0.013419	0.018984
19D	-0.00179	-6.0e-06	5.20e-06	-1.4e-06	-0.00219	0.003042
20D	-0.00656	-2.2e-05	1.91e-05	-5.3e-06	-0.00803	0.011174

16D	-0.00333	2.45e-04	5.71e-05	7.75e-17	-0.00324	0.003748
17D	-0.00875	5.29e-04	1.35e-04	1.82e-16	-0.00859	0.009506
18D	-0.00924	5.54e-04	1.30e-04	1.90e-16	-0.00901	0.010061
19D	-0.00260	-3.5e-06	-3.1e-06	1.12e-17	-0.00276	0.003091
20D	-0.00954	-1.3e-05	-1.1e-05	4.13e-17	-0.01013	0.011353

Nodo 76

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.005878	-6.5e-05	-4.5e-04	0.	0.007958	-0.01063
2S	0.002760	-2.0e-05	-4.0e-05	0.	0.003714	-0.00496
1D	0.027350	-1.3e-04	-2.1e-04	-2.3e-17	0.030214	-0.03306
2D	0.027075	-1.5e-04	-2.2e-04	1.59e-16	0.029892	-0.03284
3D	0.033925	-1.6e-04	-2.7e-04	-2.8e-17	0.037476	-0.04100
4D	0.033584	-1.9e-04	-2.7e-04	1.97e-16	0.037077	-0.04073
5D	0.006981	2.17e-04	4.96e-05	7.85e-17	0.006737	0.006582
6D	0.006868	2.02e-04	4.89e-05	-1.1e-17	0.006637	0.006479
7D	0.008672	2.71e-04	6.20e-05	9.80e-17	0.008369	0.008179
8D	0.008531	2.52e-04	6.10e-05	-1.4e-17	0.008244	0.008051
9D	-0.00320	-5.9e-06	5.11e-06	1.77e-17	-0.00329	-0.00312
10D	-0.00449	-8.3e-06	7.16e-06	2.48e-17	-0.00462	-0.00437
11D	0.023627	-1.3e-04	-2.2e-04	-2.0e-17	0.026040	-0.02848
12D	0.023395	-1.6e-04	-2.2e-04	1.46e-16	0.025756	-0.02832
13D	0.070228	-3.3e-04	-5.6e-04	-5.9e-17	0.077566	-0.08487
14D	0.069523	-3.9e-04	-5.7e-04	4.10e-16	0.076739	-0.08431
15D	0.006509	2.54e-04	5.71e-05	9.07e-17	0.006254	0.006220
16D	0.006396	2.37e-04	5.64e-05	-1.2e-17	0.006157	0.006118
17D	0.018056	5.75e-04	1.31e-04	2.08e-16	0.017417	0.017046
18D	0.017761	5.36e-04	1.29e-04	-2.9e-17	0.017157	0.016778
19D	-0.00299	-5.6e-06	4.84e-06	1.74e-17	-0.00309	-0.00292
20D	-0.01100	-2.1e-05	1.78e-05	6.38e-17	-0.01133	-0.01073

Nodo 77

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.01285	-2.8e-05	-4.3e-04	0.	-0.01519	0.010784
2S	-0.00598	-3.2e-06	-3.2e-05	0.	-0.00709	0.005004
1D	0.046504	5.34e-05	1.17e-04	-2.8e-16	0.048199	-0.03030
2D	0.046732	7.61e-05	1.21e-04	-3.1e-16	0.048419	-0.03046
3D	0.057681	6.64e-05	1.45e-04	-3.4e-16	0.059780	-0.03758
4D	0.057963	9.48e-05	1.51e-04	-3.8e-16	0.060053	-0.03778
5D	-0.00432	2.02e-04	4.59e-05	-3.9e-17	-0.00401	-0.00226
6D	-0.00460	2.11e-04	4.41e-05	8.29e-17	-0.00422	-0.00232
7D	-0.00537	2.52e-04	5.73e-05	-4.9e-17	-0.00498	-0.00281
8D	-0.00572	2.63e-04	5.50e-05	1.03e-16	-0.00525	-0.00288
9D	-0.00401	-3.6e-06	-3.5e-06	5.02e-18	-0.00409	0.002436
10D	-0.00563	-5.0e-06	-4.9e-06	7.04e-18	-0.00574	0.003418
11D	0.040046	5.44e-05	1.19e-04	-2.4e-16	0.041396	-0.02607
12D	0.040263	8.00e-05	1.24e-04	-2.8e-16	0.041605	-0.02622
13D	0.119379	1.39e-04	3.05e-04	-7.1e-16	0.123702	-0.07777
14D	0.119968	1.99e-04	3.16e-04	-7.9e-16	0.124271	-0.07820
15D	-0.00401	2.36e-04	5.34e-05	-4.6e-17	-0.00374	-0.00227
16D	-0.00429	2.47e-04	5.13e-05	8.89e-17	-0.00393	-0.00231
17D	-0.01117	5.35e-04	1.22e-04	-1.0e-16	-0.01037	-0.00588
18D	-0.01191	5.59e-04	1.17e-04	2.17e-16	-0.01092	-0.00603
19D	-0.00376	-3.5e-06	-3.3e-06	4.92e-18	-0.00383	0.002282
20D	-0.01380	-1.3e-05	-1.2e-05	1.81e-17	-0.01408	0.008383

Nodo 78

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.010741	-7.2e-05	-4.8e-04	0.	0.013110	-0.01123
2S	0.005025	-2.0e-05	-4.2e-05	0.	0.006119	-0.00522
1D	0.040248	-1.3e-04	-1.9e-04	-1.2e-17	0.041920	-0.02630
2D	0.039888	-1.6e-04	-1.9e-04	-1.5e-16	0.041515	-0.02610
3D	0.049921	-1.7e-04	-2.3e-04	-1.5e-17	0.051993	-0.03262
4D	0.049474	-2.0e-04	-2.4e-04	-1.8e-16	0.051491	-0.03237
5D	-0.00833	2.18e-04	4.40e-05	-5.0e-17	-0.00738	0.004012
6D	-0.00817	2.03e-04	4.33e-05	-1.2e-17	-0.00725	0.003998
7D	-0.01034	2.73e-04	5.50e-05	-6.3e-17	-0.00917	0.004987
8D	-0.01015	2.54e-04	5.40e-05	-1.5e-17	-0.00901	0.004969
9D	-0.00412	-5.9e-06	5.03e-06	-4.5e-18	0.004072	-0.00256
10D	-0.00578	-8.3e-06	7.06e-06	-6.3e-18	0.005712	-0.00359
11D	0.034642	-1.4e-04	-1.9e-04	-1.1e-17	0.036031	-0.02256
12D	0.034342	-1.7e-04	-1.9e-04	-1.4e-16	0.035675	-0.02239
13D	0.103315	-3.5e-04	-4.9e-04	-3.1e-17	0.107593	-0.06749
14D	0.102393	-4.1e-04	-4.9e-04	-3.8e-16	0.106552	-0.06698
15D	-0.00776	2.55e-04	5.07e-05	-5.8e-17	-0.00685	0.003849
16D	-0.00761	2.38e-04	4.99e-05	-1.3e-17	-0.00672	0.003832
17D	-0.02153	5.79e-04	1.16e-04	-1.3e-16	-0.01908	0.010406
18D	-0.02114	5.39e-04	1.15e-04	-3.2e-17	-0.01874	0.010368
19D	-0.00386	-5.6e-06	4.76e-06	-4.4e-18	0.003817	-0.00240
20D	-0.01416	-2.1e-05	1.75e-05	-1.6e-17	0.014019	-0.00881

Nodo 79

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.01701	-3.2e-05	-4.3e-04	0.	-0.02226	0.007899
2S	-0.00791	-3.5e-06	-3.2e-05	0.	-0.01032	0.003659
1D	0.056563	6.07e-05	1.02e-04	5.30e-17	0.066339	-0.02025
2D	0.056846	8.39e-05	1.06e-04	-3.3e-16	0.066660	-0.02052
3D	0.070153	7.55e-05	1.27e-04	6.57e-17	0.082276	-0.02513
4D	0.070504	1.04e-04	1.32e-04	-4.1e-16	0.082675	-0.02547
5D	-0.00442	2.06e-04	3.75e-05	8.39e-17	-0.00456	0.002459

6D	-0.00473	2.16e-04	3.61e-05	4.42e-17	-0.00487	0.002513
7D	-0.00549	2.58e-04	4.68e-05	1.05e-16	-0.00566	0.003059
8D	-0.00587	2.69e-04	4.50e-05	5.50e-17	-0.00605	0.003127
9D	-0.00477	-3.7e-06	-3.4e-06	4.59e-18	-0.00546	0.001519
10D	-0.00670	-5.1e-06	-4.8e-06	6.44e-18	-0.00766	0.002131
11D	0.048538	6.18e-05	1.04e-04	4.64e-17	0.056875	-0.01812
12D	0.048795	8.80e-05	1.09e-04	-3.0e-16	0.057172	-0.01840
13D	0.145157	1.58e-04	2.67e-04	1.36e-16	0.170231	-0.05215
14D	0.145886	2.20e-04	2.78e-04	-8.5e-16	0.171060	-0.05287
15D	-0.00409	2.42e-04	4.36e-05	9.70e-17	-0.00421	0.002479
16D	-0.00438	2.52e-04	4.19e-05	4.74e-17	-0.00450	0.002532
17D	-0.01141	5.47e-04	9.94e-05	2.22e-16	-0.01177	0.006408
18D	-0.01222	5.72e-04	9.56e-05	1.16e-16	-0.01258	0.006551
19D	-0.00447	-3.6e-06	-3.2e-06	4.50e-18	-0.00511	0.001431
20D	-0.01642	-1.3e-05	-1.2e-05	1.65e-17	-0.01878	0.005257

Nodo 80

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.015245	-7.8e-05	-4.8e-04	0.	0.020425	-0.00901
2S	0.007113	-2.0e-05	-4.1e-05	0.	0.009510	-0.00417
1D	0.049186	-1.4e-04	-1.5e-04	-1.3e-16	0.057682	-0.01864
2D	0.048763	-1.7e-04	-1.5e-04	2.91e-16	0.057184	-0.01856
3D	0.061002	-1.8e-04	-1.8e-04	-1.6e-16	0.071538	-0.02313
4D	0.060478	-2.1e-04	-1.9e-04	3.61e-16	0.070920	-0.02303
5D	-0.00765	2.23e-04	3.59e-05	4.25e-17	-0.00759	0.005984
6D	-0.00748	2.07e-04	3.52e-05	4.58e-18	-0.00743	0.005961
7D	-0.00950	2.78e-04	4.48e-05	5.30e-17	-0.00943	0.007438
8D	-0.00930	2.59e-04	4.40e-05	5.71e-18	-0.00923	0.007410
9D	0.004541	-6.0e-06	-4.6e-06	1.11e-17	0.005150	0.002941
10D	0.006370	-8.4e-06	-6.5e-06	1.56e-17	0.007224	0.004126
11D	0.042170	-1.5e-04	-1.5e-04	-1.1e-16	0.049405	-0.01644
12D	0.041811	-1.8e-04	-1.5e-04	2.68e-16	0.048976	-0.01639
13D	0.126213	-3.7e-04	-3.8e-04	-3.3e-16	0.148002	-0.04794
14D	0.125130	-4.3e-04	-3.9e-04	7.51e-16	0.146724	-0.04774
15D	-0.00711	2.60e-04	4.13e-05	4.91e-17	-0.00703	0.005749
16D	-0.00695	2.43e-04	4.06e-05	4.92e-18	-0.00688	0.005717
17D	-0.01977	5.90e-04	9.50e-05	1.12e-16	-0.01962	0.015523
18D	-0.01935	5.49e-04	9.32e-05	1.20e-17	-0.01921	0.015461
19D	0.004252	-5.7e-06	-4.4e-06	1.09e-17	0.004823	0.002759
20D	0.015616	-2.1e-05	-1.6e-05	4.00e-17	0.017716	0.010133

Nodo 81

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02059	-1.2e-05	-4.4e-04	-4.4e-05	-0.02876	0.008216
2S	-0.00957	-1.3e-06	-3.3e-05	-2.6e-06	-0.01336	0.003804
1D	0.065709	6.38e-05	9.06e-05	4.72e-06	0.084349	-0.02809
2D	0.066099	8.78e-05	9.41e-05	7.71e-06	0.084825	-0.02840
3D	0.081494	7.94e-05	1.13e-04	5.89e-06	0.104612	-0.03486
4D	0.081978	1.09e-04	1.17e-04	9.62e-06	0.105203	-0.03524
5D	-0.00430	2.13e-04	2.53e-05	1.34e-05	-0.00517	0.002893
6D	-0.00463	2.22e-04	2.40e-05	1.61e-05	-0.00556	0.002998
7D	-0.00534	2.66e-04	3.16e-05	1.68e-05	-0.00642	0.003599
8D	-0.00575	2.78e-04	3.00e-05	2.01e-05	-0.00690	0.003730
9D	-0.00545	-3.7e-06	-3.3e-06	3.58e-07	-0.00691	0.002158
10D	-0.00765	-5.1e-06	-4.7e-06	5.01e-07	-0.00970	0.003027
11D	0.056316	6.50e-05	9.27e-05	5.48e-06	0.072284	-0.02486
12D	0.056664	9.20e-05	9.66e-05	8.65e-06	0.072712	-0.02512
13D	0.168609	1.66e-04	2.36e-04	1.25e-05	0.216438	-0.07228
14D	0.169614	2.30e-04	2.46e-04	2.03e-05	0.217666	-0.07307
15D	-0.00397	2.49e-04	2.91e-05	1.58e-05	-0.00475	0.002897
16D	-0.00427	2.60e-04	2.77e-05	1.88e-05	-0.00511	0.003018
17D	-0.01112	5.64e-04	6.69e-05	3.57e-05	-0.01336	0.007535
18D	-0.01197	5.89e-04	6.35e-05	4.27e-05	-0.01436	0.007813
19D	-0.00510	-3.6e-06	-3.2e-06	3.89e-07	-0.00647	0.002029
20D	-0.01875	-1.3e-05	-1.2e-05	1.43e-06	-0.02377	0.007454

Nodo 83						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02400	1.11e-05	-4.6e-04	0.	-0.02958	0.007085
2S	-0.01115	1.12e-06	-3.5e-05	0.	-0.01371	0.003284
1D	0.077581	6.42e-05	8.77e-05	-9.2e-17	0.086170	-0.02952
2D	0.078134	8.76e-05	9.08e-05	3.55e-17	0.086744	-0.02993
3D	0.096220	7.99e-05	1.09e-04	-1.1e-16	0.106871	-0.03663
4D	0.096906	1.09e-04	1.13e-04	4.41e-17	0.107584	-0.03713
5D	-0.00465	2.08e-04	1.58e-05	8.70e-18	-0.00477	0.002451
6D	-0.00504	2.17e-04	1.46e-05	6.85e-17	-0.00516	-0.00254
7D	-0.00578	2.60e-04	1.96e-05	1.09e-17	-0.00593	0.003049
8D	-0.00626	2.71e-04	1.82e-05	8.54e-17	-0.00641	-0.00316
9D	-0.00640	-3.5e-06	-3.3e-06	-9.6e-19	-0.00696	0.002438
10D	-0.00897	-4.9e-06	-4.7e-06	-1.3e-18	-0.00976	0.003421
11D	0.066542	6.53e-05	9.00e-05	-8.0e-17	0.073861	-0.02585
12D	0.067031	9.16e-05	9.33e-05	3.26e-17	0.074370	-0.02620
13D	0.199087	1.68e-04	2.29e-04	-2.4e-16	0.221116	-0.07589
14D	0.200509	2.29e-04	2.37e-04	9.16e-17	0.222594	-0.07693
15D	-0.00429	2.44e-04	1.76e-05	1.00e-17	-0.00440	0.002436
16D	-0.00466	2.54e-04	1.63e-05	7.35e-17	-0.00476	-0.00251
17D	-0.01202	5.51e-04	4.15e-05	2.30e-17	-0.01233	0.006378
18D	-0.01302	5.79e-04	3.85e-05	1.80e-16	-0.01333	-0.00660
19D	-0.00599	-3.4e-06	-3.2e-06	-9.4e-19	-0.00651	0.002296
20D	-0.02200	-1.3e-05	-1.2e-05	-3.5e-18	-0.02392	0.008432

Nodo 84						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.023113	-3.6e-05	-4.9e-04	0.	0.028529	-0.00792
2S	0.010753	-1.6e-05	-4.0e-05	0.	0.013262	-0.00366
1D	0.069806	-1.4e-04	-8.3e-05	5.49e-17	0.077650	-0.03088
2D	0.069254	-1.7e-04	-8.4e-05	-2.5e-16	0.077048	-0.03074
3D	0.086572	-1.8e-04	-1.0e-04	6.81e-17	0.096300	-0.03831
4D	0.085888	-2.1e-04	-1.0e-04	-3.1e-16	0.095553	-0.03813
5D	0.005231	2.23e-04	1.37e-05	-7.6e-17	0.005479	-0.00535
6D	0.004984	2.08e-04	1.43e-05	-2.2e-17	0.005229	-0.00547
7D	0.006498	2.78e-04	1.71e-05	-9.5e-17	0.006805	-0.00664
8D	0.006192	2.59e-04	1.79e-05	-2.8e-17	0.006495	-0.00680
9D	0.006308	-5.6e-06	-4.0e-06	8.19e-18	0.006820	0.003712
10D	0.008849	-7.8e-06	-5.7e-06	1.15e-17	0.009567	0.005207
11D	0.059724	-1.5e-04	-8.5e-05	4.81e-17	0.066410	-0.02690
12D	0.059239	-1.8e-04	-8.6e-05	-2.3e-16	0.065881	-0.02676
13D	0.179093	-3.7e-04	-2.2e-04	1.41e-16	0.199213	-0.07936
14D	0.177674	-4.4e-04	-2.2e-04	-6.4e-16	0.197663	-0.07898
15D	0.004887	2.61e-04	1.53e-05	-8.8e-17	0.005078	-0.00512
16D	0.004652	2.43e-04	1.62e-05	-2.4e-17	0.004836	-0.00523
17D	0.013530	5.91e-04	3.62e-05	-2.0e-16	0.014162	-0.01386
18D	0.012891	5.51e-04	3.78e-05	-5.8e-17	0.013513	-0.01418
19D	0.005909	-5.3e-06	-3.8e-06	8.03e-18	0.006388	0.003487
20D	0.021703	-1.9e-05	-1.4e-05	2.95e-17	0.023463	0.012809

Nodo 85						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02570	8.93e-06	-4.8e-04	0.	-0.02886	5.54e-04
2S	-0.01194	1.78e-06	-3.6e-05	0.	-0.01343	2.57e-04
1D	0.084420	7.11e-05	9.16e-05	-2.2e-16	0.084833	-0.00333
2D	0.085119	9.45e-05	9.48e-05	-1.2e-16	0.085523	-0.00369
3D	0.104704	8.85e-05	1.14e-04	-2.7e-16	0.105214	-0.00415
4D	0.105570	1.18e-04	1.18e-04	-1.5e-16	0.106070	-0.00458
5D	-0.00480	2.08e-04	-1.3e-05	7.03e-17	-0.00443	-0.00196
6D	-0.00521	2.17e-04	-1.2e-05	-7.7e-18	-0.00478	0.002048
7D	-0.00596	2.59e-04	-1.6e-05	8.78e-17	-0.00550	-0.00245
8D	-0.00648	2.71e-04	-1.5e-05	-9.6e-18	-0.00594	0.002550
9D	-0.00693	-3.5e-06	-3.4e-06	3.71e-18	-0.00688	3.91e-04
10D	-0.00971	-4.9e-06	-4.8e-06	5.20e-18	-0.00965	5.49e-04
11D	0.072461	7.22e-05	9.40e-05	-1.9e-16	0.072749	-0.00322
12D	0.073076	9.86e-05	9.74e-05	-1.1e-16	0.073356	-0.00358
13D	0.216651	1.86e-04	2.39e-04	-5.6e-16	0.217693	-0.00865
14D	0.218448	2.47e-04	2.47e-04	-3.1e-16	0.219469	-0.00957
15D	-0.00443	2.43e-04	-1.4e-05	8.13e-17	-0.00408	-0.00202
16D	-0.00482	2.54e-04	-1.3e-05	-8.3e-18	-0.00441	0.002118
17D	-0.01240	5.50e-04	-3.4e-05	1.86e-16	-0.01143	-0.00513
18D	-0.01347	5.75e-04	-3.2e-05	-2.0e-17	-0.01236	0.005352
19D	-0.00649	-3.4e-06	-3.2e-06	3.64e-18	-0.00644	3.71e-04
20D	-0.02383	-1.3e-05	-1.2e-05	1.34e-17	-0.02366	0.001363

Nodo 86						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.025274	-4.0e-05	-5.1e-04	0.	0.028398	-0.00179
2S	0.011750	-1.5e-05	-4.2e-05	0.	0.013211	-8.2e-04
1D	0.078070	-1.5e-04	-6.5e-05	2.09e-17	0.079182	-0.01043
2D	0.077495	-1.7e-04	-6.5e-05	-1.7e-16	0.078626	-0.01063
3D	0.096823	-1.8e-04	-8.1e-05	2.59e-17	0.098201	-0.01295
4D	0.096109	-2.1e-04	-8.1e-05	-2.1e-16	0.097511	-0.01320
5D	-0.00463	2.22e-04	9.69e-06	-5.4e-17	-0.00390	-0.00491
6D	-0.00438	2.06e-04	1.04e-05	-7.6e-17	-0.00363	-0.00507
7D	-0.00575	2.77e-04	1.21e-05	-6.7e-17	-0.00485	-0.00610
8D	-0.00544	2.58e-04	1.30e-05	-9.5e-17	-0.00452	-0.00630
9D	0.007167	-5.4e-06	-4.0e-06	8.88e-18	0.007074	0.001277
10D	0.010054	-7.6e-06	-5.6e-06	1.25e-17	0.009924	0.001791

11D	0.066832	-1.5e-04	-6.7e-05	1.83e-17	0.067767	-0.00963
12D	0.066322	-1.8e-04	-6.7e-05	-1.6e-16	0.067276	-0.00983
13D	0.200306	-3.9e-04	-1.7e-04	5.37e-17	0.203154	-0.02694
14D	0.198825	-4.5e-04	-1.7e-04	-4.4e-16	0.201724	-0.02746
15D	-0.00437	2.59e-04	1.05e-05	-6.2e-17	-0.00365	-0.00462
16D	-0.00413	2.42e-04	1.16e-05	-8.2e-17	-0.00338	-0.00479
17D	-0.01198	5.87e-04	2.54e-05	-1.4e-16	-0.01009	-0.01271
18D	-0.01133	5.47e-04	2.74e-05	-2.0e-16	-0.00940	-0.01313
19D	0.006714	-5.2e-06	-3.8e-06	8.71e-18	0.006629	0.001204
20D	0.024662	-1.9e-05	-1.4e-05	3.20e-17	0.024349	0.004420

Nodo 87						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02450	6.72e-06	-4.7e-04	0.	-0.03025	-0.00593
2S	-0.01138	2.43e-06	-3.5e-05	0.	-0.01402	-0.00275
1D	0.079621	7.90e-05	9.11e-05	4.78e-18	0.088731	0.024677
2D	0.080379	1.03e-04	9.43e-05	-1.6e-16	0.089568	0.024598
3D	0.098750	9.83e-05	1.13e-04	5.93e-18	0.110047	0.030616
4D	0.099691	1.28e-04	1.17e-04	-2.0e-16	0.111087	0.030516
5D	-0.00420	2.09e-04	-1.2e-05	-9.1e-18	-0.00419	-0.00304
6D	-0.00458	2.18e-04	-1.1e-05	-9.1e-18	-0.00458	-0.00321
7D	-0.00521	2.61e-04	-1.5e-05	-1.1e-17	-0.00520	-0.00378
8D	-0.00569	2.73e-04	-1.4e-05	-1.1e-17	-0.00568	-0.00399
9D	-0.00645	-3.5e-06	-3.2e-06	1.52e-18	-0.00704	-0.00233
10D	-0.00905	-4.9e-06	-4.5e-06	2.13e-18	-0.00988	-0.00327
11D	0.068316	8.01e-05	9.35e-05	4.19e-18	0.067078	0.021554
12D	0.068986	1.07e-04	9.69e-05	-1.5e-16	0.076815	0.021456
13D	0.204327	2.06e-04	2.38e-04	1.23e-17	0.227692	0.063425
14D	0.206278	2.68e-04	2.46e-04	-4.1e-16	0.229846	0.063214
15D	-0.00387	2.45e-04	-1.2e-05	-1.1e-17	-0.00384	-0.00301
16D	-0.00423	2.55e-04	-1.2e-05	-9.8e-18	-0.00420	-0.00318
17D	-0.01085	5.55e-04	-3.1e-05	-2.4e-17	-0.01082	-0.00791
18D	-0.01184	5.79e-04	-2.9e-05	-2.4e-17	-0.01182	-0.00835
19D	-0.00604	-3.4e-06	-3.0e-06	1.49e-18	-0.00659	-0.00219
20D	-0.02220	-1.3e-05	-1.1e-05	5.46e-18	-0.02421	-0.00806

Nodo 88						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.024750	-4.4e-05	-4.8e-04	0.	0.030625	0.004149
2S	0.011498	-1.5e-05	-3.9e-05	0.	0.014215	0.001948
1D	0.076601	-1.5e-04	-4.4e-05	-1.1e-18	0.086244	0.015785
2D	0.076103	-1.8e-04	-4.4e-05	1.84e-17	0.085715	0.015452
3D	0.095001	-1.9e-04	-5.5e-05	-1.4e-18	0.106960	0.019592
4D	0.094383	-2.2e-04	-5.5e-05	2.29e-17	0.106304	0.019177
5D	-0.00359	2.22e-04	6.68e-06	3.60e-18	-0.00334	0.005572
6D	-0.00342	2.07e-04	7.11e-06	-9.4e-20	-0.00318	0.005619
7D	-0.00446	2.78e-04	8.32e-06	4.49e-18	-0.00415	0.006925
8D	-0.00425	2.59e-04	8.87e-06	-1.2e-19	-0.00395	0.006983
9D	0.006944	-5.4e-06	-3.6e-06	-3.4e-19	0.007581	0.002081
10D	0.009741	-7.5e-06	-5.1e-06	-4.8e-19	0.010634	0.002918
11D	0.065580	-1.6e-04	-4.6e-05	-9.7e-19	0.073820	0.014107
12D	0.065139	-1.9e-04	-4.6e-05	1.69e-17	0.073353	0.013782
13D	0.196538	-4.0e-04	-1.2e-04	-2.8e-18	0.221275	0.040648
14D	0.195256	-4.6e-04	-1.1e-04	4.75e-17	0.219915	0.039782
15D	-0.00338	2.60e-04	-7.0e-06	4.16e-18	-0.00311	0.005293
16D	-0.00323	2.42e-04	7.75e-06	-1.0e-19	-0.00297	0.005331
17D	-0.00928	5.89e-04	1.75e-05	9.53e-18	-0.00863	0.014438
18D	-0.00885	5.49e-04	1.87e-05	-2.5e-19	-0.00823	0.014557
19D	0.006504	-5.1e-06	-3.4e-06	-3.3e-19	0.007100	0.001970
20D	0.023889	-1.9e-05	-1.3e-05	-1.2e-18	0.026078	0.007235

1D	0.071454	-1.6e-04	-2.3e-05	3.48e-05	0.091596	0.011079
2D	0.071064	-1.8e-04	-2.1e-05	3.36e-05	0.091112	0.010467
3D	0.088618	-2.0e-04	-2.8e-05	4.33e-05	0.113598	0.013756
4D	0.088133	-2.3e-04	-2.6e-05	4.18e-05	0.112996	0.012994
5D	-0.00310	2.27e-04	-1.3e-05	1.91e-05	-0.00385	0.005694
6D	-0.00304	2.11e-04	-1.2e-05	1.83e-05	-0.00384	0.005867
7D	-0.00385	2.83e-04	-1.6e-05	2.38e-05	-0.00479	0.007076
8D	-0.00378	2.64e-04	-1.5e-05	2.28e-05	-0.00477	0.007290
9D	0.006232	-5.3e-06	-3.2e-06	7.42e-07	0.007933	-0.00219
10D	0.008742	-7.5e-06	-4.6e-06	1.04e-06	0.011128	-0.00308
11D	0.061170	-1.7e-04	-2.4e-05	3.50e-05	0.078394	0.010109
12D	0.060823	-1.9e-04	-2.3e-05	3.36e-05	0.077964	0.009474
13D	0.183332	-4.1e-04	-5.9e-05	9.07e-05	0.235006	0.028587
14D	0.182327	-4.7e-04	-5.5e-05	8.74e-05	0.233758	0.026987
15D	-0.00287	2.65e-04	-1.4e-05	2.22e-05	-0.00357	0.005389
16D	-0.00283	2.47e-04	-1.3e-05	2.13e-05	-0.00356	0.005556
17D	-0.00801	6.01e-04	-3.3e-05	5.05e-05	-0.00996	0.014748
18D	-0.00787	5.60e-04	-3.1e-05	4.84e-05	-0.00992	0.015196
19D	0.005835	-5.1e-06	-3.1e-06	7.12e-07	0.007427	-0.00207
20D	0.021433	-1.9e-05	-1.1e-05	2.61e-06	0.027279	-0.00761

Nodo 91

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-0.01892	5.10e-05	-4.7e-04	0.	-0.02453	-0.00604
2S	-0.00879	6.96e-06	-3.4e-05	0.	-0.01137	-0.00280
1D	0.062667	8.11e-05	1.06e-04	-3.5e-20	0.072874	0.016478
2D	0.063432	1.04e-04	1.08e-04	9.94e-19	0.073730	0.016422
3D	0.077722	1.01e-04	1.32e-04	-4.3e-20	0.090380	0.020461
4D	0.078671	1.30e-04	1.35e-04	1.23e-18	0.091442	0.020392
5D	-0.00317	2.09e-04	-2.8e-05	4.75e-20	-0.00328	-0.00257
6D	-0.00352	2.18e-04	-2.8e-05	6.77e-21	-0.00360	-0.00273
7D	-0.00393	2.61e-04	-3.4e-05	5.93e-20	-0.00408	-0.00320
8D	-0.00438	2.72e-04	-3.5e-05	8.44e-21	-0.00447	-0.00340
9D	-0.00497	-3.4e-06	-2.8e-06	-4.2e-22	-0.00571	-0.00112
10D	-0.00697	-4.7e-06	-4.0e-06	-5.9e-22	-0.00801	-0.00157
11D	0.053743	8.21e-05	1.08e-04	-3.0e-20	0.062460	0.015076
12D	0.054409	1.08e-04	1.11e-04	9.14e-19	0.063204	0.015038
13D	0.160812	2.11e-04	2.77e-04	-8.9e-20	0.186995	0.042531
14D	0.162778	2.73e-04	2.83e-04	2.57e-18	0.189195	0.042390
15D	-0.00294	2.44e-04	-3.2e-05	5.49e-20	-0.00302	-0.00267
16D	-0.00328	2.55e-04	-3.2e-05	7.27e-21	-0.00331	-0.00284
17D	-0.00819	5.53e-04	-7.3e-05	1.26e-19	-0.00848	-0.00673
18D	-0.00911	5.77e-04	-7.4e-05	1.78e-20	-0.00930	-0.00713
19D	-0.00465	-3.3e-06	-2.7e-06	-4.1e-22	-0.00534	-0.00106
20D	-0.01709	-1.2e-05	-9.9e-06	-1.5e-21	-0.01963	-0.00389

Nodo 92

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.021502	-4.2e-07	-4.7e-04	0.	0.027087	0.002667
2S	0.009962	-9.9e-06	-3.6e-05	0.	0.012547	0.001277
1D	0.069356	-1.6e-04	8.81e-06	6.83e-21	0.079313	-0.00964
2D	0.069026	-1.8e-04	7.60e-06	4.60e-19	0.078967	-0.00938
3D	0.086016	-1.9e-04	1.10e-05	8.47e-21	0.098363	-0.01199
4D	0.085606	-2.2e-04	9.47e-06	5.71e-19	0.097934	-0.01167
5D	-0.00397	2.19e-04	-2.4e-05	9.38e-21	-0.00395	0.005123
6D	-0.00396	2.04e-04	-2.2e-05	6.38e-21	-0.00395	0.005202
7D	-0.00492	2.74e-04	-3.0e-05	1.17e-20	-0.00490	0.006365
8D	-0.00492	2.55e-04	-2.7e-05	7.95e-21	-0.00491	0.006463
9D	0.005810	-5.0e-06	-2.9e-06	1.40e-21	0.006642	-0.00196
10D	0.008150	-7.0e-06	-4.1e-06	1.96e-21	0.009317	-0.00274
11D	0.059369	-1.6e-04	-9.6e-06	5.98e-21	0.067863	-0.00952
12D	0.059068	-1.9e-04	-8.4e-06	4.23e-19	0.067557	-0.00931
13D	0.177948	-4.1e-04	2.31e-05	1.75e-20	0.203486	-0.02507
14D	0.177096	-4.7e-04	2.00e-05	1.19e-18	0.202595	-0.02442
15D	-0.00364	2.56e-04	-2.8e-05	1.08e-20	-0.00361	0.004828
16D	-0.00364	2.39e-04	-2.6e-05	6.84e-21	-0.00362	0.004888
17D	-0.01024	5.81e-04	-6.3e-05	2.48e-20	-0.01019	0.013262
18D	-0.01024	5.42e-04	-5.8e-05	1.67e-20	-0.01021	0.013463
19D	0.005440	-4.8e-06	-2.8e-06	1.37e-21	0.006221	-0.00184
20D	0.019983	-1.8e-05	-1.0e-05	5.02e-21	0.022849	-0.00677

Nodo 93

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-0.01549	4.62e-05	-4.8e-04	0.	-0.01746	-0.00938
2S	-0.00720	7.09e-06	-3.4e-05	0.	-0.00815	-0.00436
1D	0.054012	8.64e-05	1.24e-04	-7.4e-23	0.055595	0.028475
2D	0.054709	1.10e-04	1.27e-04	6.72e-21	0.056300	0.028725
3D	0.066990	1.08e-04	1.55e-04	-9.2e-23	0.068952	0.035320
4D	0.067855	1.36e-04	1.58e-04	8.35e-21	0.069826	0.035629
5D	-0.00304	2.05e-04	-3.5e-05	1.54e-21	-0.00282	-0.00214
6D	-0.00339	2.14e-04	-3.5e-05	3.39e-22	-0.00305	-0.00222
7D	-0.00378	2.56e-04	-4.4e-05	1.92e-21	-0.00350	-0.00267
8D	-0.00422	2.67e-04	-4.4e-05	4.23e-22	-0.00379	-0.00277
9D	-0.00426	-3.3e-06	-2.8e-06	-3.8e-22	-0.00439	-0.00225
10D	-0.00597	-4.7e-06	-3.9e-06	-5.4e-22	-0.00615	-0.00315
11D	0.046420	8.74e-05	1.27e-04	-6.5e-23	0.047706	0.024543
12D	0.047023	1.14e-04	1.30e-04	6.18e-21	0.048312	0.024759
13D	0.138628	2.25e-04	3.25e-04	-1.9e-22	0.142672	0.073103
14D	0.140418	2.86e-04	3.31e-04	1.74e-20	0.144481	0.073744
15D	-0.00286	2.40e-04	-4.0e-05	1.78e-21	-0.00264	-0.00218

16D	-0.00321	2.50e-04	-4.1e-05	3.64e-22	-0.00286	-0.00225
17D	-0.00788	5.44e-04	-9.2e-05	4.07e-21	-0.00729	-0.00559
18D	-0.00879	5.67e-04	-9.3e-05	8.90e-22	-0.00790	-0.00579
19D	-0.00399	-3.3e-06	-2.7e-06	-3.8e-22	-0.00411	-0.00211
20D	-0.01464	-1.2e-05	-9.9e-06	-1.4e-21	-0.01509	-0.00774

Nodo 94

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.019444	-5.1e-06	-4.7e-04	0.	0.022490	0.006579
2S	0.008991	-9.4e-06	-3.5e-05	0.	0.010407	0.003088
1D	0.064969	-1.6e-04	1.35e-05	-5.3e-23	0.066465	0.021788
2D	0.064693	-1.8e-04	1.58e-05	1.16e-20	0.066203	0.021546
3D	0.080574	-1.9e-04	1.68e-05	-6.6e-23	0.082430	0.027039
4D	0.080232	-2.2e-04	1.97e-05	1.45e-20	0.082104	0.026738
5D	-0.00496	2.14e-04	-3.0e-05	1.36e-22	-0.00447	0.004481
6D	-0.00493	2.00e-04	-2.8e-05	7.07e-23	-0.00445	0.004607
7D	-0.00616	2.67e-04	-3.8e-05	1.70e-22	-0.00555	0.005569
8D	-0.00612	2.49e-04	-3.5e-05	8.81e-23	-0.00553	0.005726
9D	0.005311	-4.8e-06	-2.7e-06	2.75e-23	0.005462	-0.00269
10D	0.007450	-6.8e-06	-3.8e-06	3.86e-23	0.007662	-0.00378
11D	0.055627	-1.6e-04	1.33e-05	-4.7e-23	0.056875	0.019368
12D	0.055373	-1.9e-04	1.61e-05	1.07e-20	0.056641	0.019131
13D	0.166694	-4.1e-04	3.51e-05	-1.4e-22	0.170525	0.056084
14D	0.165981	-4.6e-04	4.13e-05	3.00e-20	0.169850	0.055455
15D	-0.00455	2.50e-04	-3.6e-05	1.57e-22	-0.00408	0.004302
16D	-0.00451	2.34e-04	-3.3e-05	7.59e-23	-0.00405	0.004423
17D	-0.01281	5.67e-04	-8.1e-05	3.60e-22	-0.01154	0.011622
18D	-0.01273	5.29e-04	-7.4e-05	1.86e-22	-0.01148	0.011950
19D	0.004974	-4.6e-06	-2.6e-06	2.70e-23	0.005120	-0.00253
20D	0.018268	-1.7e-05	-9.6e-06	9.91e-23	0.018807	-0.00928

Nodo 95

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-0.01083	4.06e-05	-4.5e-04	0.	-0.01456	-0.01156
2S	-0.00504	7.03e-06	-3.2e-05	0.	-0.00674	-0.00537
1D	0.039264	9.24e-05	1.35e-04	-4.0e-24	0.043335	0.039656
2D	0.039783	1.16e-04	1.38e-04	-1.8e-21	0.043916	0.040148
3D	0.048701	1.15e-04	1.68e-04	-5.0e-24	0.053748	0.049185
4D	0.049344	1.44e-04	1.71e-04	-2.2e-21	0.054469	0.049796
5D	-0.00246	2.04e-04	-4.0e-05	-9.6e-24	-0.00240	-0.00267
6D	-0.00272	2.12e-04	-4.0e-05	-6.1e-23	-0.00260	-0.00296
7D	-0.00306	2.54e-04	-5.0e-05	-1.2e-23	-0.00298	-0.00332
8D	-0.00338	2.65e-04	-5.0e-05	-7.7e-23	-0.00323	-0.00368
9D	-0.00306	-3.3e-06	-2.6e-06	-1.8e-24	-0.00333	-0.00319
10D	-0.00429	-4.7e-06	-3.6e-06	-2.5e-24	-0.00467	-0.00448
11D	0.033836	9.34e-05	1.37e-04	-3.5e-24	0.037264	0.034104
12D	0.034280	1.20e-04	1.40e-04	-1.6e-21	0.037768	0.034531
13D	0.100800	2.41e-04	3.52e-04	-1.0e-23	0.111229	0.101786
14D	0.102130	3.02e-04	3.59e-04	-4.6e-21	0.112722	0.103051
15D	-0.00234	2.39e-04	-4.6e-05	-1.1e-23	-0.00227	-0.00267
16D	-0.00260	2.48e-04	-4.6e-05	-6.6e-23	-0.00247	0.002967
17D	-0.00638	5.40e-04	-1.1e-04	-2.6e-23	-0.00622	-0.00695
18D	-0.00706	5.63e-04	-1.1e-04	-1.6e-22	-0.00674	-0.00771
19D	-0.00286	-3.3e-06	-2.5e-06	-1.7e-24	-0.00312	-0.00299
20D	-0.01051	-1.2e-05	-9.2e-06	-6.4e-24	-0.01146	-0.01100

Nodo 96

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.015918	-1.1e-05	-4.4e-04	0.	0.019180	0.009268
2S	0.007341	-9.1e-06	-3.1e-05	0.	0.008844	0.004324
1D	0.053111	-1.6e-04	2.27e-05	-1.3e-24	0.058923	0.036479
2D	0.052915	-1.8e-04	2.62e-05	-1.3e-22	0.058714	0.036173
3D	0.065869	-1.9e-04	2.82e-05	-1.7e-24	0.073078	0.045251
4D	0.065627	-2.2e-04	3.27e-05	-1.6e-22	0.072818	0.044870
5D	-0.00534	2.11e-04	-3.5e-05	-9.4e-24	-0.00564	0.004446
6D	-0.00529	1.97e-04	-3.2e-05	1.09e-23	-0.00559	0.004611
7D	-0.00663	2.63e-04	-4.3e-05	-1.2e-23	-0.00700	0.005529
8D	-0.00657	2.46e-04	-4.0e-05	1.36e-23	-0.00694	0.005734
9D	0.004319	-4.7e-06	-2.3e-06	3.37e-25	0.004765	0.003474
10D	0.006058	-6.6e-06	-3.3e-06	3.72e-25	0.006685	0.004873
11D	0.045522	-1.6e-04	2.26e-05	-1.2e-24	0.050485	0.031655
12D	0.045344	-1.9e-04	2.68e-05	-1.2e-22	0.050287	0.031329
13D	0.136282	-4.1e-04	5.90e-05	-3.4e-24	0.151192	0.093701
14D	0.135778	-4.6e-04	6.85e-05	-3.3e-22	0.150651	0.092899
15D	-0.00491	2.47e-04	-4.1e-05	-1.1e-23	-0.00518	0.004347
16D	-0.00486	2.30e-04	-3.7e-05	1.17e-23	-0.00513	0.004501
17D	-0.01379	5.59e-04	-9.2e-05	-2.5e-23	-0.01456	0.011554
18D	-0.01366	5.22e-04	-8.5e-05	2.87e-23	-0.01444	0.011981
19D	0.004044	4.55e-06	-2.2e-06	3.30e-25	0.004464	0.003265
20D	0.014853	1.67e-05	-8.2e-06	1.21e-24	0.016397	0.011991

6D	0.001782	2.17e-04	-5.2e-05	-1.2e-05	0.002093	-0.00283
7D	0.002036	2.60e-04	-6.4e-05	-1.5e-05	0.002441	-0.00321
8D	0.002215	2.71e-04	-6.5e-05	-1.5e-05	0.002602	-0.00352
9D	-0.00172	-3.4e-06	-2.5e-06	8.00e-07	-0.00219	-0.00283
10D	-0.00241	-4.8e-06	-3.5e-06	1.12e-06	-0.00307	-0.00397
11D	0.019588	9.33e-05	1.49e-04	3.15e-05	0.025072	0.030723
12D	0.019840	1.20e-04	1.51e-04	3.22e-05	0.025409	0.031143
13D	0.058175	2.40e-04	3.83e-04	8.14e-05	0.074540	0.091543
14D	0.058939	3.03e-04	3.89e-04	8.33e-05	0.075551	0.092786
15D	0.001577	2.44e-04	-6.0e-05	-1.4e-05	0.001888	-0.00257
16D	0.001726	2.54e-04	-6.0e-05	-1.4e-05	0.002016	-0.00282
17D	0.004250	5.53e-04	-1.4e-04	-3.3e-05	0.005093	-0.00672
18D	0.004625	5.76e-04	-1.4e-04	-3.2e-05	0.005431	-0.00737
19D	-0.00161	-3.4e-06	-2.4e-06	7.64e-07	-0.00205	-0.00265
20D	-0.00591	-1.2e-05	-8.9e-06	2.81e-06	-0.00753	-0.00975

Nodo 98

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.011979	6.44e-06	-4.0e-04	7.10e-05	0.016590	0.008421
2S	0.005508	-7.4e-06	-2.7e-05	7.40e-06	0.007625	0.003911
1D	0.038616	-1.6e-04	3.62e-05	2.92e-05	0.049634	0.032999
2D	0.038483	-1.8e-04	4.13e-05	3.00e-05	0.049471	0.032796
3D	0.047896	-2.0e-04	4.51e-05	3.63e-05	0.061562	0.040932
4D	0.047731	-2.3e-04	5.14e-05	3.74e-05	0.061359	0.040679
5D	-0.00544	2.14e-04	-4.5e-05	6.01e-06	-0.00683	0.004374
6D	-0.00541	1.99e-04	-4.2e-05	-5.8e-06	-0.00681	0.004492
7D	-0.00675	2.67e-04	-5.7e-05	7.50e-06	-0.00848	0.005439
8D	-0.00672	2.49e-04	-5.2e-05	-7.3e-06	-0.00846	0.005586
9D	0.003257	4.73e-06	-1.9e-06	-9.3e-07	0.004187	0.002916
10D	0.004569	6.63e-06	-2.7e-06	-1.3e-06	0.005873	0.004090
11D	0.033241	-1.7e-04	3.67e-05	3.00e-05	0.042680	0.028531
12D	0.033115	-1.9e-04	4.25e-05	3.09e-05	0.042522	0.028322
13D	0.099125	-4.2e-04	9.45e-05	7.62e-05	0.127398	0.084736
14D	0.098781	-4.8e-04	1.08e-04	7.84e-05	0.126974	0.084206
15D	-0.00507	2.50e-04	-5.3e-05	6.73e-06	-0.00636	0.004260
16D	-0.00503	2.33e-04	-4.9e-05	-6.6e-06	-0.00634	0.004372
17D	-0.01406	5.67e-04	-1.2e-04	1.58e-05	-0.01766	0.011362
18D	-0.01398	5.29e-04	-1.1e-04	-1.5e-05	-0.01761	0.011669
19D	0.003050	4.55e-06	-1.9e-06	-8.8e-07	0.003920	0.002740
20D	0.011202	1.67e-05	-6.9e-06	-3.2e-06	0.014399	0.010063

Nodo 99

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00247	7.48e-05	-4.1e-04	0.	-0.00666	-0.00693
2S	-0.00116	9.60e-06	-3.1e-05	0.	-0.00311	-0.00319
1D	0.009391	8.68e-05	1.64e-04	-3.3e-29	0.012028	0.024368
2D	0.009513	1.10e-04	1.66e-04	-8.3e-27	0.012185	0.024704
3D	0.011650	1.08e-04	2.04e-04	-4.2e-29	0.014921	0.030228
4D	0.011802	1.37e-04	2.06e-04	-1.0e-26	0.015115	0.030644
5D	9.73e-04	2.07e-04	-6.6e-05	-3.1e-27	9.96e-04	0.002081
6D	0.001018	2.16e-04	-6.7e-05	-3.3e-27	-0.00102	-0.00229
7D	0.001211	2.59e-04	-8.3e-05	-3.9e-27	0.001240	0.002590
8D	0.001267	2.70e-04	-8.4e-05	-4.1e-27	-0.00127	-0.00285
9D	-6.7e-04	-3.3e-06	-2.6e-06	6.78e-30	-9.1e-04	-0.00190
10D	-9.4e-04	-4.7e-06	-3.6e-06	9.48e-30	-0.00127	-0.00267
11D	0.008173	8.77e-05	1.66e-04	-4.0e-29	0.010440	0.021110
12D	0.008277	1.14e-04	1.68e-04	-9.2e-27	0.010567	0.021395
13D	0.024129	2.26e-04	4.27e-04	-8.9e-29	0.030898	0.062587
14D	0.024443	2.87e-04	4.32e-04	-2.2e-26	0.031298	0.063448
15D	9.81e-04	2.43e-04	-7.7e-05	-3.7e-27	0.001017	-0.00210
16D	0.001028	2.53e-04	-7.8e-05	-3.8e-27	-0.00104	-0.00234
17D	0.002537	5.50e-04	-1.8e-04	-8.3e-27	0.002600	0.005425
18D	0.002654	5.73e-04	-1.8e-04	-8.7e-27	-0.00267	-0.00597
19D	-6.3e-04	-3.3e-06	-2.5e-06	8.58e-30	-8.5e-04	-0.00178
20D	-0.00230	-1.2e-05	-9.4e-06	3.15e-29	-0.00312	-0.00655

Nodo 100

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.008498	2.28e-05	-3.6e-04	0.	0.011175	0.007231
2S	0.003893	-5.7e-06	-2.2e-05	0.	0.005140	0.003350
1D	0.026674	-1.6e-04	4.96e-05	-3.0e-28	0.033598	0.024697
2D	0.026581	-1.8e-04	5.61e-05	4.10e-26	0.033514	0.024598
3D	0.033090	-2.0e-04	6.17e-05	-3.8e-28	0.041677	0.030631
4D	0.032975	-2.2e-04	6.98e-05	5.11e-26	0.041573	0.030508
5D	-0.00544	2.09e-04	-5.7e-05	4.14e-28	-0.00660	0.003606
6D	-0.00545	1.95e-04	-5.3e-05	0.	-0.00662	0.003606
7D	-0.00677	2.60e-04	-7.1e-05	5.18e-28	-0.00820	0.004483
8D	-0.00677	2.43e-04	-6.6e-05	0.	-0.00822	0.004482
9D	0.002473	4.56e-06	-1.7e-06	3.56e-29	0.003076	0.001988
10D	0.003468	6.40e-06	-2.3e-06	4.99e-29	0.004316	0.002788
11D	0.023194	-1.6e-04	5.07e-05	-3.6e-28	0.029095	0.021217
12D	0.023098	-1.9e-04	5.80e-05	4.46e-26	0.029013	0.021120
13D	0.068529	-4.1e-04	1.29e-04	-8.0e-28	0.086290	0.063384
14D	0.068288	-4.7e-04	1.46e-04	1.08e-25	0.086072	0.063126
15D	-0.00515	2.44e-04	-6.7e-05	4.87e-28	-0.00623	0.003493
16D	-0.00515	2.28e-04	-6.1e-05	0.	-0.00625	0.003486
17D	-0.01410	5.53e-04	-1.5e-04	1.10e-27	-0.01709	0.009361
18D	-0.01411	5.16e-04	-1.4e-04	0.	-0.01714	0.009359
19D	0.002317	4.39e-06	-1.6e-06	4.46e-29	0.002881	0.001863
20D	0.008512	1.61e-05	-6.1e-06	1.64e-28	0.010583	0.006842

Nodo 101

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.55e-06	9.05e-05	-4.3e-04	7.48e-05	-2.7e-04	-0.00416
2S	-2.9e-05	1.06e-05	-3.5e-05	5.68e-06	-1.4e-04	-0.00190
1D	0.001546	8.55e-05	1.91e-04	2.12e-05	-0.00112	0.014206
2D	0.001632	1.09e-04	1.91e-04	2.09e-05	-0.00119	0.014341
3D	0.001924	1.06e-04	2.37e-04	2.63e-05	-0.00139	0.017629
4D	0.002032	1.36e-04	2.38e-04	2.60e-05	-0.00148	0.017796
5D	2.93e-04	2.16e-04	-9.1e-05	-1.5e-05	-3.5e-04	0.003509
6D	2.90e-04	2.25e-04	-9.3e-05	-1.6e-05	-3.5e-04	0.003536
7D	3.65e-04	2.70e-04	-1.1e-04	-1.9e-05	-4.3e-04	0.004371
8D	3.62e-04	2.81e-04	-1.2e-04	-2.0e-05	-4.4e-04	0.004405
9D	-1.8e-05	-3.4e-06	-3.0e-06	1.08e-06	2.29e-05	-0.00110
10D	-2.5e-05	-4.8e-06	-4.3e-06	1.51e-06	3.21e-05	-0.00155
11D	0.001584	8.65e-05	1.94e-04	2.17e-05	-0.00114	0.012604
12D	0.001678	1.14e-04	1.94e-04	2.13e-05	-0.00122	0.012687
13D	0.004035	2.23e-04	4.97e-04	5.52e-05	-0.00292	0.036561
14D	0.004262	2.86e-04	4.99e-04	5.46e-05	-0.00309	0.036900
15D	3.34e-04	2.53e-04	-1.1e-04	-1.8e-05	-4.0e-04	0.003728
16D	3.32e-04	2.63e-04	-1.1e-04	-1.8e-05	-4.1e-04	0.003756
17D	7.74e-04	5.73e-04	-2.4e-04	-4.1e-05	-9.2e-04	0.009198
18D	7.66e-04	5.97e-04	-2.5e-04	-4.2e-05	-9.3e-04	0.009269
19D	-1.8e-05	3.41e-06	-3.0e-06	1.02e-06	2.26e-05	-0.00103
20D	-6.7e-05	1.25e-05	-1.1e-05	3.73e-06	8.30e-05	-0.00380

Nodo 102

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	9.66e-06	-0.00104	-4.8e-04	3.20e-04	0.	0.001517
2S	-2.6e-05	-4.9e-04	-3.6e-05	1.51e-04	0.	7.32e-04
1D	0.001503	0.003933	-5.3e-05	-0.00417	-4.7e-28	-0.00548
2D	0.001587	0.003953	-6.2e-05	-0.00416	0.	-0.00555
3D	0.001871	0.004883	-6.6e-05	-0.00517	-5.9e-28	-0.00680
4D	0.001975	0.004908	-7.7e-05	-0.00517	0.	-0.00688
5D	2.86e-04	0.002016	-5.2e-05	-0.00166	0.	0.001845
6D	2.83e-04	0.002029	-5.6e-05	-0.00168	0.	0.001858
7D	3.57e-04	0.002510	-6.5e-05	-0.00207	0.	0.002295
8D	3.54e-04	0.002526	-7.0e-05	-0.00210	0.	0.002312
9D	-1.7e-05	-3.3e-04	-2.7e-06	3.29e-04	1.14e-29	3.68e-04
10D	-2.4e-05	-4.7e-04	-3.8e-06	4.61e-04	1.59e-29	5.16e-04
11D	0.001540	0.003575	-5.3e-05	-0.00370	-5.7e-28	-0.00477
12D	0.001631	0.003575	-6.4e-05	-0.00367	0.	-0.00483
13D	0.003923	0.010143	-1.4e-04	-0.01072	-1.3e-27	-0.01408
14D	0.004144	0.010192	-1.6e-04	-0.01071	0.	-0.01426
15D	3.26e-04	0.002086	-6.1e-05	-0.00188	0.	0.001843
16D	3.25e-04	0.002101	-6.6e-05	-0.00191	0.	0.001860
17D	7.56e-04	0.005270	-1.4e-04	-0.00437	0.	0.004805
18D	7.49e-04	0.005303	-1.5e-04	-0.00445	0.	0.004840
19D	-1.8e-05	-3.1e-04	-2.7e-06	3.25e-04	1.44e-29	3.46e-04
20D	-6.5e-05	-0.00115	-1.0e-05	0.001195	5.27e-29	0.001269

Nodo 103

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.87e-06	2.24e-04	-4.2e-04	-1.3e-04	-9.6e-04	0.001262
2S	-2.9e-05	1.10e-04	-2.5e-05	-8.0e-05	-3.4e-04	5.84e-04
1D	0.001546	1.05e-04	-3.0e-04	1.17e-04	-0.00115	0.004425
2D	0.001632	1.07e-04	-3.2e-04	1.20e-04	-0.00122	-0.00439
3D	0.001924	1.30e-04	-3.8e-04	1.46e-04	-0.00143	0.005506
4D	0.002032	1.33e-04	-4.0e-04	1.50e-04	-0.00151	-0.00547
5D	2.93e-04	1.64e-04	3.80e-05	-8.0e-05	-3.7e-04	-0.00584
6D	2.90e-04	1.65e-04	-3.7e-05	-8.0e-05	-3.8e-04	-0.00586
7D	3.66e-04	2.05e-04	4.73e-05	-1.0e-04	-4.6e-04	-0.00727
8D	3.62e-04	2.05e-04	-4.6e-05	-1.0e-04	-4.7e-04	-0.00730
9D	-1.8e-05	1.38e-05	4.66e-06	-9.3e-06	-4.0e-05	4.86e-04
10D	-2.5e-05	1.94e-05	6.53e-06	-1.3e-05	-5.6e-05	6.81e-04
11D	0.001584	1.08e-04	-3.1e-04	1.23e-04	-0.00116	0.004483
12D	0.001678	1.10e-04	-3.3e-04	1.26e-04	-0.00123	-0.00442
13D	0.004035	2.73e-04	-7.9e-04	3.06e-04	-0.00300	0.011538
14D	0.004262	2.79e-04	-8.4e-04	3.15e-04	-0.00317	-0.01145
15D	3.34e-04	1.90e-04	4.13e-05	-9.3e-05	-4.3e-04	-0.00595
16D	3.33e-04	1.90e-04	-4.1e-05	-9.3e-05	-4.4e-04	-0.00598
17D	7.75e-04	4.34e-04	9.99e-05	-2.1e-04	-9.7e-04	-0.01524
18D	7.67e-04	4.34e-04	-9.7e-05	-2.1e-04	-0.00100	-0.01530
19D	-1.8e-05	-1.4e-05	4.63e-06	-8.8e-06	-3.8e-05	4.58e-04
20D	-6.6e-05	-5.0e-05	1.70e-05	-3.3e-05	-1.4e-04	0.001683

11D	0.014607	-1.7e-04	6.92e-05	4.34e-05	0.019010	0.019748
12D	0.014557	-1.9e-04	7.87e-05	4.73e-05	0.018964	0.019646
13D	0.042675	-4.2e-04	1.76e-04	1.09e-04	0.055825	0.058469
14D	0.042548	-4.8e-04	1.98e-04	1.19e-04	0.055699	0.058228
15D	-0.00481	2.47e-04	-8.8e-05	-3.8e-05	-0.00576	0.005052
16D	-0.00483	2.31e-04	-8.1e-05	-3.5e-05	-0.00578	0.005021
17D	-0.01301	5.61e-04	-2.0e-04	-8.6e-05	-0.01563	0.013469
18D	-0.01307	5.23e-04	-1.8e-04	-8.0e-05	-0.01571	0.013401
19D	0.001629	4.43e-06	-1.7e-06	-1.1e-06	0.002105	0.001812
20D	0.005982	1.63e-05	-6.4e-06	-4.1e-06	0.007730	0.006656

Nodo 105

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-2.9e-04	2.24e-04	-4.4e-04	0.	-0.00157	5.36e-05
2S	-1.7e-04	1.07e-04	-4.6e-05	0.	-7.1e-04	2.81e-05
1D	0.001216	1.03e-04	-2.5e-04	0.	7.99e-04	0.003659
2D	0.001235	1.06e-04	-2.7e-04	0.	8.20e-04	0.003769
3D	0.001512	1.29e-04	-3.1e-04	0.	9.93e-04	0.004544
4D	0.001535	1.32e-04	-3.3e-04	0.	0.001020	0.004682
5D	0.002019	1.60e-04	4.99e-05	0.	9.64e-04	-0.00359
6D	0.002024	1.61e-04	-5.1e-05	0.	9.52e-04	-0.00360
7D	0.002512	2.00e-04	6.23e-05	0.	0.001201	-0.00447
8D	0.002517	2.01e-04	-6.4e-05	0.	0.001186	-0.00448
9D	-1.4e-04	1.34e-05	-5.4e-06	0.	-1.6e-04	2.49e-04
10D	-1.9e-04	1.87e-05	-7.6e-06	0.	-2.2e-04	3.50e-04
11D	0.001189	1.07e-04	-2.5e-04	0.	-7.9e-04	0.003407
12D	0.001205	1.09e-04	-2.7e-04	0.	-8.1e-04	0.003535
13D	0.003159	2.70e-04	-6.5e-04	0.	0.002077	0.009457
14D	0.003208	2.76e-04	-7.0e-04	0.	-0.00213	0.009749
15D	0.002013	1.85e-04	5.73e-05	0.	0.001020	-0.00358
16D	0.002017	1.86e-04	-5.9e-05	0.	0.001005	-0.00360
17D	0.005258	4.24e-04	1.32e-04	0.	0.002525	-0.00935
18D	0.005269	4.25e-04	-1.4e-04	0.	0.002494	-0.00938
19D	-1.3e-04	-1.3e-05	5.22e-06	0.	-1.6e-04	2.36e-04
20D	-4.7e-04	-4.9e-05	1.92e-05	0.	-5.9e-04	8.66e-04

Nodo 106

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.002361	5.21e-05	-3.3e-04	0.	0.003535	0.006057
2S	0.001065	-3.2e-06	-1.6e-05	0.	0.001686	0.002780
1D	0.007546	-1.6e-04	8.44e-05	0.	0.009284	0.018887
2D	0.007527	-1.8e-04	9.50e-05	0.	0.009274	0.018848
3D	0.009365	-2.0e-04	1.05e-04	0.	0.011521	0.023439
4D	0.009342	-2.3e-04	1.18e-04	0.	0.011509	0.023390
5D	-0.00409	2.11e-04	-9.4e-05	0.	-0.00352	-0.00520
6D	-0.00411	1.97e-04	-8.7e-05	0.	-0.00352	-0.00521
7D	-0.00509	2.63e-04	-1.2e-04	0.	-0.00438	-0.00646
8D	-0.00511	2.46e-04	-1.1e-04	0.	-0.00438	-0.00648
9D	9.07e-04	4.56e-06	-2.0e-06	0.	0.001059	0.001976
10D	0.001273	6.39e-06	-2.8e-06	0.	0.001486	0.002772
11D	0.006722	-1.7e-04	8.71e-05	0.	0.008202	0.016733
12D	0.006705	-1.9e-04	9.89e-05	0.	0.008194	0.016694
13D	0.019428	-4.3e-04	2.20e-04	0.	0.023887	0.048605
14D	0.019381	-4.8e-04	2.48e-04	0.	0.023862	0.048504
15D	-0.00399	2.46e-04	-1.1e-04	0.	-0.00342	-0.00500
16D	-0.00400	2.30e-04	-1.0e-04	0.	-0.00341	-0.00500
17D	-0.01064	5.59e-04	-2.5e-04	0.	-0.00915	-0.01349
18D	-0.01068	5.21e-04	-2.3e-04	0.	-0.00914	-0.01352
19D	8.51e-04	4.40e-06	-2.0e-06	0.	9.93e-04	0.001855
20D	0.003124	1.62e-05	-7.3e-06	0.	0.003649	0.006812

Nodo 107

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.70e-05	2.33e-04	-4.7e-04	1.67e-04	1.86e-05	-0.00156
2S	-8.4e-06	1.09e-04	-6.7e-05	1.46e-06	-2.3e-05	-7.3e-04
1D	-5.0e-05	1.06e-04	-2.1e-04	2.80e-04	-3.9e-04	-0.00517
2D	-5.2e-05	1.09e-04	-2.2e-04	2.95e-04	-4.1e-04	-0.00520
3D	-6.3e-05	1.32e-04	-2.6e-04	3.48e-04	-4.8e-04	-0.00643
4D	-6.4e-05	1.36e-04	-2.8e-04	3.67e-04	-5.1e-04	-0.00647
5D	4.72e-05	1.62e-04	-7.9e-05	4.29e-05	5.47e-05	0.012535
6D	-3.9e-05	1.63e-04	-8.1e-05	4.09e-05	5.40e-05	0.012550
7D	5.89e-05	2.02e-04	-9.9e-05	5.34e-05	6.82e-05	0.015592
8D	-4.9e-05	2.03e-04	-1.0e-04	5.09e-05	6.74e-05	0.015611
9D	5.83e-06	1.35e-05	-7.1e-06	-3.8e-06	-6.8e-06	-8.4e-04
10D	8.17e-06	1.89e-05	-9.9e-06	-5.3e-06	-9.6e-06	-0.00118
11D	-5.5e-05	1.09e-04	-2.1e-04	2.82e-04	-3.9e-04	-0.00511
12D	-5.6e-05	1.12e-04	-2.2e-04	2.99e-04	-4.2e-04	-0.00513
13D	-1.3e-04	2.77e-04	-5.4e-04	7.29e-04	-0.00100	-0.01345
14D	-1.4e-04	2.84e-04	-5.8e-04	7.69e-04	-0.00107	-0.01352
15D	5.33e-05	1.88e-04	-9.2e-05	4.54e-05	6.11e-05	0.012437
16D	-4.3e-05	1.88e-04	-9.5e-05	4.33e-05	6.12e-05	0.012449
17D	1.25e-04	4.29e-04	-2.1e-04	1.12e-04	1.44e-04	0.032626
18D	-1.0e-04	4.30e-04	-2.1e-04	1.07e-04	1.43e-04	0.032664
19D	5.61e-06	-1.3e-05	-6.8e-06	-3.7e-06	6.57e-06	-7.9e-04
20D	2.06e-05	-4.9e-05	-2.5e-05	-1.4e-05	2.41e-05	-0.00290

Nodo 108

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.31e-05	-0.00127	-4.7e-04	7.69e-04	0.	-0.00188
2S	-7.7e-06	-6.0e-04	-4.6e-05	3.36e-04	0.	-8.8e-04

1D	4.78e-05	-0.00587	-1.1e-04	0.002872	0.	-0.00945
2D	-4.8e-05	-0.00590	-1.2e-04	0.002891	0.	-0.00949
3D	-6.0e-05	-0.00729	-1.4e-04	0.003568	0.	-0.01174
4D	-6.0e-05	-0.00733	-1.5e-04	0.003592	0.	-0.01179
5D	4.59e-05	0.012873	-8.8e-05	0.002823	0.	0.016950
6D	-3.8e-05	0.012893	-8.6e-05	-0.00282	0.	0.016973
7D	5.73e-05	0.016011	-1.1e-04	0.003512	0.	0.021082
8D	-4.8e-05	0.016036	-1.1e-04	-0.00351	0.	0.021111
9D	5.61e-06	-9.5e-04	-4.5e-06	4.22e-04	0.	-0.00136
10D	7.86e-06	-0.00134	-6.4e-06	5.93e-04	0.	-0.00191
11D	-5.1e-05	-0.00557	-1.1e-04	0.002694	0.	-0.00874
12D	-5.2e-05	-0.00560	-1.2e-04	0.002719	0.	-0.00879
13D	-1.3e-04	-0.01520	-3.0e-04	0.007431	0.	-0.02442
14D	-1.3e-04	-0.01528	-3.1e-04	0.007482	0.	-0.02453
15D	5.20e-05	0.012739	-1.0e-04	-0.00284	0.	0.016768
16D	-4.3e-05	0.012758	-1.0e-04	-0.00284	0.	0.016789
17D	1.21e-04	0.033496	-2.3e-04	0.007357	0.	0.044103
18D	-1.0e-04	0.033548	-2.3e-04	-0.00736	0.	0.044163
19D	5.40e-06	-8.9e-04	-4.3e-06	3.96e-04	0.	-0.00127
20D	1.98e-05	-0.00328	-1.6e-05	0.001454	0.	-0.00468

Nodo 109

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.40e-05	-0.00206	-4.3e-04	0.001578	0.	1.54e-04
2S	-1.2e-05	-9.7e-04	-3.0e-05	7.02e-04	0.	5.88e-05
1D	-4.8e-05	-0.00839	-1.9e-05	0.004958	0.	0.005450
2D	-4.8e-05	-0.00840	-2.0e-05	0.004962	0.	0.005519
3D	-6.0e-05	-0.01042	-2.4e-05	0.006155	0.	0.006780
4D	-6.0e-05	-0.01044	-2.5e-05	0.006160	0.	0.006865
5D	3.95e-05	0.013893	-1.0e-04	0.003266	0.	-0.01482
6D	-3.3e-05	0.013917	-9.7e-05	-0.00327	0.	-0.01484
7D	4.93e-05	0.017279	-1.3e-04	0.004063	0.	-0.01843
8D	-4.1e-05	0.017309	-1.2e-04	-0.00407	0.	-0.01846
9D	5.62e-06	-0.00127	-2.5e-06	6.57e-04	0.	7.06e-04
10D	7.88e-06	-0.00178	-3.5e-06	9.21e-04	0.	9.91e-04
11D	-5.2e-05	-0.00771	-2.0e-05	0.004472	0.	0.005454
12D	-5.2e-05	-0.00773	-2.1e-05	0.004480	0.	0.005517
13D	-1.3e-04	-0.02166	-5.1e-05	0.012782	0.	0.014196
14D	-1.3e-04	-0.02170	-5.2e-05	0.012793	0.	0.014373
15D	4.43e-05	0.013725	-1.2e-04	0.003252	0.	-0.01470
16D	-3.6e-05	0.013748	-1.1e-04	-0.00326	0.	-0.01472
17D	1.04e-04	0.036143	-2.7e-04	0.008503	0.	-0.03857
18D	-8.6e-05	0.036206	-2.6e-04	-0.00852	0.	-0.03862
19D	5.42e-06	-0.00119	-2.4e-06	6.15e-04	0.	6.66e-04
20D	1.99e-05	-0.00437	-8.9e-06	0.002259	0.	0.002446

Nodo 110

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.59e-05	6.49e-05	-3.3e-04	8.22e-05	-5.1e-04	0.004478
2S	-1.2e-05	-2.5e-06	-1.4e-05	8.08e-06	-6.5e-05	0.002060
1D	-4.7e-05	-1.7e-04	1.10e-04	3.14e-05	-7.2e-04	0.015485
2D	-4.8e-05	-1.9e-04	1.24e-04	3.41e-05	-7.6e-04	0.015457
3D	-5.8e-05	-2.1e-04	1.37e-04	3.91e-05	-8.9e-04	0.019223
4D	-5.9e-05	-2.4e-04	1.54e-04	4.25e-05	-9.5e-04	0.019188
5D	3.89e-05	2.20e-04	-1.3e-04	-2.5e-05	2.22e-04	-0.01580
6D	-3.2e-05	2.05e-04	-1.2e-04	-2.3e-05	2.31e-04	-0.01584
7D	4.86e-05	2.74e-04	-1.6e-04	-3.1e-05	2.77e-04	-0.01965
8D	-4.0e-05	2.56e-04	-1.4e-04	-2.9e-05	2.88e-04	-0.01969
9D	5.30e-06	4.74e-06	-2.6e-06	1.10e-06	-4.9e-05	0.002127
10D	7.44e-06	6.65e-06	-3.6e-06	1.55e-06	-6.8e-05	0.002984
11D	-5.1e-05	-1.8e-04	1.14e-04	3.30e-05	-7.2e-04	0.013980
12D	-5.2e-05	-2.0e-04	1.29e-04	3.60e-05	-7.7e-04	0.013953
13D	-1.2e-04	-4.4e-04	2.87e-04	8.22e-05	-0.00187	0.039920
14D	-1.3e-04	-5.0e-04	3.23e-04	8.94e-05	-0.00198	0.039848
15D	4.39e-05	2.57e-04	-1.5e-04	-2.9e-05	2.34e-04	-0.01555
16D	-3.6e-05	2.40e-04	-1.4e-04	-2.7e-05	2.46e-04	-0.01558
17D	1.03e-04	5.82e-04	-3.3e-04	-6.6e-05	5.82e-04	-0.04110
18D	-8.5e-05	5.44e-04	-3.1e-04	-6.1e-05	6.05e-04	-0.04118
19D	5.13e-06	4.58e-06	-2.6e-06	1.05e-06	-4.6e-05	0.001994
20D	1.89e-05	1.68e-05	-9.5e-06	3.84e-06	-1.7e-04	0.007323

16D	-2.0e-04	3.46e-04	1.32e-04	-1.2e-04	-1.1e-04	0.006993
17D	4.00e-04	7.52e-04	3.08e-04	-2.7e-04	2.21e-04	0.018294
18D	-4.6e-04	7.83e-04	2.99e-04	-2.8e-04	-2.7e-04	0.018573
19D	-1.6e-05	-5.2e-06	-4.3e-06	3.56e-06	-9.3e-06	-0.00351
20D	-6.1e-05	-1.9e-05	-1.6e-05	1.31e-05	-3.4e-05	-0.01290

Nodo 112

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.2e-05	0.003461	-3.9e-04	-1.2e-04	3.78e-05	0.005215
2S	6.81e-06	0.001658	-3.3e-05	-8.1e-05	7.24e-06	0.002518
1D	0.001304	-0.01580	-7.4e-05	0.004672	7.22e-04	-0.02757
2D	0.001289	-0.01580	-6.4e-05	0.004687	7.12e-04	-0.02750
3D	0.001622	-0.01961	-9.2e-05	0.005796	8.98e-04	-0.03421
4D	0.001603	-0.01960	-8.0e-05	0.005815	8.86e-04	-0.03413
5D	1.50e-04	0.003572	1.01e-04	-0.00183	8.03e-05	0.008457
6D	-1.7e-04	0.003590	1.09e-04	-0.00182	9.49e-05	0.008366
7D	1.87e-04	0.004443	1.26e-04	-0.00228	1.00e-04	0.010528
8D	-2.2e-04	0.004467	1.37e-04	-0.00226	1.18e-04	0.010414
9D	-1.7e-05	-0.00158	-4.7e-06	6.90e-04	-9.0e-06	-0.00297
10D	-2.4e-05	-0.00222	-6.6e-06	9.67e-04	-1.3e-05	-0.00417
11D	0.001310	-0.01385	-7.4e-05	0.004095	7.26e-04	-0.02430
12D	0.001289	-0.01382	-6.2e-05	0.004105	7.13e-04	-0.02416
13D	0.003395	-0.04063	-1.9e-04	0.012011	0.001880	-0.07092
14D	0.003356	-0.04061	-1.7e-04	0.012049	0.001855	-0.07073
15D	1.65e-04	0.003590	1.18e-04	-0.00177	8.77e-05	0.008765
16D	-2.0e-04	0.003599	1.28e-04	-0.00175	1.07e-04	0.008626
17D	3.96e-04	0.009305	2.68e-04	-0.00475	2.11e-04	0.022103
18D	-4.6e-04	0.009351	2.90e-04	-0.00472	2.51e-04	0.021853
19D	-1.6e-05	-0.00148	-4.4e-06	6.46e-04	-8.7e-06	-0.00278
20D	-6.0e-05	-0.00543	-1.6e-05	0.002373	-3.2e-05	-0.01022

Nodo 113

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.46e-04	-0.02160	-4.1e-04	0.016468	2.51e-05	0.006391
2S	3.79e-05	-0.00980	-3.3e-05	0.007473	1.19e-05	0.002977
1D	0.001227	-0.01149	2.70e-04	0.005471	4.65e-04	0.016770
2D	0.001209	-0.01165	2.63e-04	0.005608	4.61e-04	0.017133
3D	0.001527	-0.01428	3.36e-04	0.006797	5.79e-04	0.020830
4D	0.001504	-0.01448	3.28e-04	0.006968	5.73e-04	0.021285
5D	1.47e-04	0.027186	7.89e-05	-0.01302	5.15e-05	-0.00459
6D	1.77e-04	0.027163	7.37e-05	-0.01301	-5.9e-05	-0.00456
7D	1.83e-04	0.033783	9.84e-05	-0.01618	6.42e-05	-0.00571
8D	2.20e-04	0.033755	9.20e-05	-0.01616	-7.3e-05	-0.00568
9D	-1.7e-05	-0.00869	-3.6e-06	0.004400	-6.2e-06	0.001616
10D	-2.4e-05	-0.01219	-5.1e-06	0.006172	-8.8e-06	0.002266
11D	0.001239	-0.01093	2.71e-04	0.005142	4.69e-04	0.015637
12D	0.001214	-0.01109	2.63e-04	0.005288	4.63e-04	0.016121
13D	0.003198	-0.02978	7.04e-04	0.014159	0.001212	0.043355
14D	0.003148	-0.03020	6.86e-04	0.014519	0.001201	0.044332
15D	1.61e-04	0.025761	9.15e-05	-0.01232	5.61e-05	-0.00466
16D	2.01e-04	0.025743	8.59e-05	-0.01231	-6.6e-05	-0.00464
17D	3.86e-04	0.070427	2.09e-04	-0.03373	1.35e-04	-0.01197
18D	4.67e-04	0.070370	1.95e-04	-0.03369	-1.5e-04	-0.01190
19D	-1.6e-05	-0.00814	-3.5e-06	0.004119	-6.0e-06	0.001561
20D	-5.9e-05	-0.02988	-1.3e-05	0.015130	-2.2e-05	0.005734

Nodo 114

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.56e-04	-0.01880	-4.3e-04	0.016986	3.00e-05	0.009637
2S	3.91e-05	-0.00850	-3.7e-05	0.007704	1.22e-05	0.004448
1D	0.001224	-0.01333	1.27e-04	0.006237	5.02e-04	0.016221
2D	0.001206	-0.01309	1.22e-04	0.006257	4.97e-04	0.016640
3D	0.001523	-0.01655	1.59e-04	0.007745	6.24e-04	0.020150
4D	0.001500	-0.01625	1.51e-04	0.007770	6.18e-04	0.020673
5D	1.46e-04	0.026730	7.56e-05	-0.01289	5.62e-05	-0.00517
6D	1.76e-04	0.026707	6.99e-05	-0.01288	-6.4e-05	-0.00510
7D	1.82e-04	0.033215	9.44e-05	-0.01601	7.01e-05	-0.00643
8D	2.20e-04	0.033187	8.73e-05	-0.01600	-8.0e-05	-0.00634
9D	-1.7e-05	-0.00869	-3.1e-06	0.004416	-6.7e-06	0.001706
10D	-2.4e-05	-0.01220	-4.4e-06	0.006195	-9.4e-06	0.002393
11D	0.001236	-0.01215	1.27e-04	0.005714	5.06e-04	0.015164
12D	0.001211	-0.01194	1.20e-04	0.005756	4.99e-04	0.015692
13D	0.003191	-0.03439	3.32e-04	0.016102	0.001308	0.041947
14D	0.003140	-0.03378	3.16e-04	0.016159	0.001294	0.043066
15D	1.60e-04	0.025288	8.84e-05	-0.01219	6.13e-05	-0.00524
16D	2.00e-04	0.025269	8.19e-05	-0.01218	-7.3e-05	-0.00516
17D	3.84e-04	0.069235	2.00e-04	-0.03338	1.48e-04	-0.01348
18D	4.66e-04	0.069177	1.85e-04	-0.03336	-1.7e-04	-0.01329
19D	-1.6e-05	-0.00814	-3.0e-06	0.004135	-6.4e-06	0.001649
20D	-5.9e-05	-0.02990	-1.1e-05	0.015189	-2.4e-05	0.006055

Nodo 115

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.72e-04	-0.00734	-4.9e-04	0.009026	0.	0.015377
2S	4.08e-05	-0.00325	-4.5e-05	0.004077	0.	0.007004
1D	0.001222	0.016661	-1.6e-04	-0.00775	0.	0.007904
2D	0.001203	0.016284	-1.7e-04	-0.00757	0.	0.008202
3D	0.001520	0.020674	-2.1e-04	-0.00962	0.	0.009827
4D	0.001497	0.020207	-2.1e-04	-0.00939	0.	0.010196
5D	1.44e-04	0.016962	8.84e-05	-0.00964	0.	-0.01982

6D	1.75e-04	0.016927	8.36e-05	-0.00964	0.	-0.01983
7D	1.80e-04	0.021075	1.10e-04	-0.01198	0.	-0.02463
8D	2.19e-04	0.021032	1.04e-04	-0.01198	0.	-0.02464
9D	-1.7e-05	-0.00592	-5.2e-06	0.003299	0.	0.006051
10D	-2.4e-05	-0.00830	-7.3e-06	0.004628	0.	0.008488
11D	0.001233	0.014712	-1.7e-04	-0.00685	0.	0.007651
12D	0.001208	0.014392	-1.8e-04	-0.00669	0.	0.007935
13D	0.003183	0.042863	-4.3e-04	-0.01995	0.	0.020519
14D	0.003134	0.041897	-4.5e-04	-0.01948	0.	0.021290
15D	1.58e-04	0.015981	1.03e-04	-0.00921	0.	-0.01883
16D	1.99e-04	0.015949	9.76e-05	-0.00920	0.	-0.01884
17D	3.80e-04	0.043916	2.34e-04	-0.02500	0.	-0.05135
18D	4.63e-04	0.043826	2.22e-04	-0.02498	0.	-0.05138
19D	-1.6e-05	-0.00554	-4.9e-06	0.003095	0.	0.005666
20D	-6.0e-05	-0.02035	-1.8e-05	0.011367	0.	0.020812

Nodo 116

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.86e-04	-1.2e-04	-5.2e-04	5.72e-05	2.03e-04	3.79e-04
2S	4.22e-05	-3.3e-05	-5.4e-05	1.69e-05	3.79e-05	2.01e-05
1D	0.001223	-2.5e-04	-4.3e-04	1.34e-04	9.89e-04	-0.03479
2D	0.001205	-2.8e-04	-4.4e-04	1.46e-04	9.75e-04	-0.03421
3D	0.001521	-3.1e-04	-5.4e-04	1.67e-04	0.001231	-0.04317
4D	0.001499	-3.5e-04	-5.5e-04	1.81e-04	0.001213	-0.04244
5D	1.44e-04	3.07e-04	1.16e-04	-1.1e-04	1.14e-04	-0.01848
6D	1.74e-04	2.86e-04	1.12e-04	-1.1e-04	-1.4e-04	-0.01838
7D	1.79e-04	3.83e-04	1.44e-04	-1.4e-04	1.42e-04	-0.02296
8D	2.17e-04	3.57e-04	1.40e-04	-1.3e-04	-1.7e-04	-0.02284
9D	-1.7e-05	-9.5e-06	8.60e-06	4.59e-06	-1.4e-05	0.007256
10D	-2.4e-05	-1.3e-05	1.21e-05	6.44e-06	-2.0e-05	0.010179
11D	0.001234	-2.6e-04	-4.4e-04	1.38e-04	9.98e-04	-0.03038
12D	0.001210	-3.0e-04	-4.5e-04	1.51e-04	9.78e-04	-0.02987
13D	0.003186	-6.5e-04	-0.00112	3.51e-04	0.002578	-0.08942
14D	0.003138	-7.4e-04	-0.00114	3.81e-04	0.002540	-0.08792
15D	1.57e-04	3.58e-04	1.34e-04	-1.3e-04	1.24e-04	-0.01731
16D	1.97e-04	3.34e-04	1.30e-04	-1.2e-04	-1.6e-04	-0.01720
17D	3.78e-04	8.13e-04	3.06e-04	-3.0e-04	2.99e-04	-0.04783
18D	4.60e-04	7.57e-04	2.98e-04	-2.8e-04	-3.7e-04	-0.04756
19D	-1.6e-05	-9.0e-06	8.17e-06	4.35e-06	-1.3e-05	0.006797
20D	-6.0e-05	-3.3e-05	3.00e-05	1.60e-05	-4.9e-05	0.024964

Nodo 117

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00349	-2.9e-05	-4.0e-04	0.	-0.00210	0.014393
2S	-0.00162	-7.3e-06	-3.2e-05	0.	-1.0e-03	0.006746
1D	0.014296	8.46e-05	1.97e-04	0.	0.005357	-0.05357
2D	0.014344	1.14e-04	2.04e-04	0.	0.005357	-0.05373
3D	0.017735	1.05e-04	2.45e-04	0.	0.006645	-0.06645
4D	0.017795	1.42e-04	2.54e-04	0.	0.006645	-0.06665
5D	-0.00194	2.83e-04	1.01e-04	0.	-0.00136	0.006683
6D	-0.00199	2.95e-04	9.80e-05	0.	-0.00136	0.006898
7D	-0.00242	3.53e-04	1.26e-04	0.	-0.00169	0.008305
8D	-0.00247	3.68e-04	1.22e-04	0.	-0.00169	0.008573
9D	0.001224	-5.3e-06	-4.3e-06	0.	5.56e-04	0.004725
10D	0.001716	-7.4e-06	-6.0e-06	0.	7.80e-04	0.006629
11D	0.012448	8.55e-05	1.99e-04	0.	0.004648	-0.04649
12D	0.012496	1.19e-04	2.07e-04	0.	0.004649	-0.04663
13D	0.036733	2.20e-04	5.13e-04	0.	0.013760	-0.13760
14D	0.036859	2.99e-04	5.33e-04	0.	0.013760	-0.13802
15D	-0.00187	3.31e-04	1.18e-04	0.	-0.00132	0.006367
16D	-0.00190	3.45e-04	1.15e-04	0.	-0.00132	0.006565
17D	-0.00504	7.50e-04	2.67e-04	0.	-0.00353	0.017319
18D	-0.00516	7.81e-04	2.60e-04	0.	-0.00354	0.017875
19D	0.001145	-5.1e-06	-4.1e-06	0.	5.21e-04	0.004424
20D	0.004207	-1.9e-05	-1.5e-05	0.	0.001913	0.016249

Nodo 119						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00838	-2.1e-05	-4.2e-04	2.83e-06	-0.00522	0.019627
2S	-0.00391	-6.4e-06	-3.3e-05	2.98e-06	-0.00245	0.009163
1D	0.031055	8.18e-05	1.73e-04	-3.9e-05	0.013430	-0.06319
2D	0.031158	1.11e-04	1.80e-04	-4.8e-05	0.013439	-0.06341
3D	0.038523	1.02e-04	2.15e-04	-4.8e-05	0.016659	-0.07838
4D	0.038651	1.39e-04	2.24e-04	-6.0e-05	0.016670	-0.07865
5D	-0.00366	2.80e-04	8.58e-05	-9.8e-05	-0.00136	0.006071
6D	-0.00378	2.92e-04	8.33e-05	-1.0e-04	0.001402	0.006353
7D	-0.00455	3.50e-04	1.07e-04	-1.2e-04	-0.00169	0.007543
8D	-0.00470	3.65e-04	1.04e-04	-1.3e-04	0.001742	0.007892
9D	-0.00267	-5.2e-06	-4.1e-06	2.12e-06	-0.00108	0.005376
10D	-0.00374	-7.3e-06	-5.8e-06	2.97e-06	-0.00152	0.007541
11D	0.026924	8.27e-05	1.75e-04	-3.9e-05	0.011611	-0.05451
12D	0.027023	1.16e-04	1.83e-04	-4.9e-05	0.011620	-0.05472
13D	0.079767	2.13e-04	4.51e-04	-1.0e-04	0.034488	-0.16224
14D	0.080034	2.92e-04	4.69e-04	-1.3e-04	0.034511	-0.16280
15D	-0.00346	3.29e-04	1.00e-04	-1.2e-04	-0.00129	0.005712
16D	-0.00357	3.42e-04	9.73e-05	-1.2e-04	0.001335	0.005967
17D	-0.00948	7.44e-04	2.27e-04	-2.6e-04	-0.00352	0.015714
18D	-0.00980	7.74e-04	2.21e-04	-2.7e-04	0.003633	0.016441
19D	-0.00250	-5.0e-06	-3.9e-06	2.02e-06	-0.00101	0.005033
20D	-0.00918	-1.8e-05	-1.4e-05	7.44e-06	-0.00372	0.018486

Nodo 120						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.005233	-1.0e-04	-5.2e-04	4.00e-05	0.003935	-0.01724
2S	0.002458	-3.1e-05	-5.0e-05	1.29e-05	0.001851	-0.00809
1D	0.027136	-2.4e-04	-3.2e-04	1.32e-04	0.011919	-0.05454
2D	0.026798	-2.7e-04	-3.2e-04	1.42e-04	0.011773	-0.05400
3D	0.033660	-3.0e-04	-3.9e-04	1.64e-04	0.014785	-0.06765
4D	0.033241	-3.4e-04	-4.0e-04	1.77e-04	0.014603	-0.06699
5D	0.008156	3.04e-04	8.41e-05	-1.0e-04	0.003082	0.012494
6D	0.008076	2.83e-04	8.17e-05	-9.7e-05	0.003081	0.012354
7D	0.010132	3.80e-04	1.05e-04	-1.3e-04	0.003829	0.015521
8D	0.010031	3.53e-04	1.02e-04	-1.2e-04	0.003828	0.015347
9D	-0.00364	-9.1e-06	6.99e-06	-3.6e-06	-0.00145	0.005823
10D	-0.00510	-1.3e-05	9.81e-06	5.07e-06	-0.00203	0.008169
11D	0.023477	-2.5e-04	-3.2e-04	1.36e-04	0.010304	-0.04706
12D	0.023181	-2.8e-04	-3.3e-04	1.47e-04	0.010176	-0.04661
13D	0.069687	-6.2e-04	-8.2e-04	3.45e-04	0.030607	-0.14002
14D	0.068819	-7.1e-04	-8.4e-04	3.72e-04	0.030231	-0.13866
15D	0.007582	3.55e-04	9.71e-05	-1.2e-04	0.002871	0.011684
16D	0.007505	3.31e-04	9.45e-05	-1.1e-04	0.002875	0.011547
17D	0.021090	8.06e-04	2.23e-04	-2.8e-04	0.007971	0.032322
18D	0.020880	7.50e-04	2.16e-04	-2.6e-04	0.007970	0.031959
19D	-0.00341	-8.6e-06	6.63e-06	-3.4e-06	-0.00136	0.005453
20D	-0.01251	-3.2e-05	2.43e-05	-1.3e-05	-0.00498	0.020029

Nodo 121						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.01824	-1.4e-05	-4.5e-04	0.	-0.01245	0.024677
2S	-0.00850	-5.2e-06	-3.6e-05	0.	-0.00583	0.011467
1D	0.060056	7.98e-05	1.49e-04	0.	0.027539	-0.06831
2D	0.060269	1.10e-04	1.55e-04	0.	0.027568	-0.06857
3D	0.074492	9.93e-05	1.85e-04	0.	0.034159	-0.08472
4D	0.074757	1.36e-04	1.93e-04	0.	0.034195	-0.08504
5D	-0.00578	2.79e-04	6.90e-05	0.	-0.00207	0.005536
6D	-0.00605	2.91e-04	6.69e-05	0.	-0.00212	0.005777
7D	-0.00718	3.49e-04	8.62e-05	0.	-0.00257	0.006884
8D	-0.00752	3.63e-04	8.35e-05	0.	-0.00264	0.007183
9D	-0.00509	-5.1e-06	-4.1e-06	0.	-0.00222	0.005657
10D	-0.00714	-7.2e-06	-5.7e-06	0.	-0.00312	0.007936
11D	0.051796	8.09e-05	1.51e-04	0.	0.023786	-0.05865
12D	0.052000	1.15e-04	1.58e-04	0.	0.023817	-0.05889
13D	0.154189	2.08e-04	3.88e-04	0.	0.070712	-0.17530
14D	0.154741	2.87e-04	4.04e-04	0.	0.070787	-0.17598
15D	-0.00537	3.27e-04	8.05e-05	0.	-0.00195	0.005425
16D	-0.00563	3.40e-04	7.80e-05	0.	-0.00200	0.005619
17D	-0.01495	7.40e-04	1.83e-04	0.	-0.00536	0.014385
18D	-0.01565	7.71e-04	1.77e-04	0.	-0.00550	0.015000
19D	-0.00477	-5.0e-06	-3.9e-06	0.	-0.00209	0.005297
20D	-0.01751	-1.8e-05	-1.4e-05	0.	-0.00767	0.019456

Nodo 122						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.014390	-9.3e-05	-5.3e-04	0.	0.010502	-0.02391
2S	0.006739	-2.9e-05	-5.0e-05	0.	0.004916	-0.01115
1D	0.052039	-2.3e-04	-2.6e-04	0.	0.023686	-0.05838
2D	0.051491	-2.7e-04	-2.6e-04	0.	0.023430	-0.05792
3D	0.064546	-2.9e-04	-3.2e-04	0.	0.029379	-0.07241
4D	0.063867	-3.3e-04	-3.3e-04	0.	0.029062	-0.07184
5D	0.012115	3.02e-04	6.71e-05	0.	0.004568	0.010149
6D	0.011967	2.81e-04	6.53e-05	0.	0.004556	0.010050
7D	0.015049	3.77e-04	8.38e-05	0.	0.005674	0.012611
8D	0.014864	3.51e-04	8.15e-05	0.	0.005659	0.012487
9D	-0.00580	-8.8e-06	6.35e-06	0.	0.002479	-0.00531
10D	-0.00814	-1.2e-05	8.91e-06	0.	0.003478	-0.00745

11D	0.044851	-2.5e-04	-2.6e-04	0.	0.020459	-0.05014
12D	0.044377	-2.8e-04	-2.7e-04	0.	0.020231	-0.04976
13D	0.133596	-6.1e-04	-6.7e-04	0.	0.060817	-0.14983
14D	0.132189	-7.0e-04	-6.8e-04	0.	0.060158	-0.14866
15D	0.011255	3.53e-04	7.74e-05	0.	0.004236	0.009590
16D	0.011111	3.29e-04	7.55e-05	0.	0.004225	0.009484
17D	0.031324	8.01e-04	1.78e-04	0.	0.011808	0.026284
18D	0.030937	7.46e-04	1.73e-04	0.	0.011777	0.026022
19D	-0.00543	-8.4e-06	6.01e-06	0.	0.002326	-0.00498
20D	-0.01996	-3.1e-05	2.21e-05	0.	0.008544	-0.01828

Nodo 123						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02936	-7.0e-06	-4.8e-04	0.	-0.02061	0.025259
2S	-0.01366	-3.9e-06	-3.8e-05	0.	-0.00957	0.011716
1D	0.088088	7.92e-05	1.30e-04	0.	0.042456	-0.06051
2D	0.088425	1.09e-04	1.35e-04	0.	0.042541	-0.06080
3D	0.109254	9.85e-05	1.61e-04	0.	0.052659	-0.07505
4D	0.109674	1.36e-04	1.68e-04	0.	0.052766	-0.07541
5D	-0.00715	2.78e-04	5.40e-05	0.	-0.00241	-0.00405
6D	-0.00756	2.89e-04	5.22e-05	0.	-0.00249	-0.00416
7D	-0.00889	3.47e-04	6.75e-05	0.	-0.00299	-0.00504
8D	-0.00938	3.61e-04	6.51e-05	0.	-0.00309	-0.00518
9D	-0.00736	-5.0e-06	-4.1e-06	0.	-0.00339	0.004851
10D	-0.01032	-7.0e-06	-5.8e-06	0.	-0.00475	0.006805
11D	0.075701	8.03e-05	1.32e-04	0.	0.036563	-0.05204
12D	0.076017	1.14e-04	1.38e-04	0.	0.036654	-0.05230
13D	0.226087	2.06e-04	3.38e-04	0.	0.108986	-0.15531
14D	0.226961	2.85e-04	3.52e-04	0.	0.109209	-0.15607
15D	-0.00662	3.26e-04	6.29e-05	0.	-0.00224	-0.00406
16D	-0.00699	3.39e-04	6.07e-05	0.	-0.00230	-0.00414
17D	-0.01849	7.37e-04	1.43e-04	0.	-0.00622	-0.01054
18D	-0.01953	7.67e-04	1.38e-04	0.	-0.00643	-0.01084
19D	-0.00689	-4.9e-06	-3.9e-06	0.	-0.00318	0.004542
20D	-0.02531	-1.8e-05	-1.4e-05	0.	-0.01168	0.016683

Nodo 124						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.025499	-8.4e-05	-5.4e-04	0.	0.018897	-0.02601
2S	0.011909	-2.8e-05	-5.0e-05	0.	0.008812	-0.01208
1D	0.076131	-2.3e-04	-2.1e-04	0.	0.036371	-0.05231
2D	0.075420	-2.6e-04	-2.1e-04	0.	0.036028	-0.05193
3D	0.094424	-2.9e-04	-2.6e-04	0.	0.045111	-0.06488
4D	0.093541	-3.3e-04	-2.6e-04	0.	0.044686	-0.06480
5D	-0.01395	3.00e-04	5.23e-05	0.	-0.00511	0.007670
6D	-0.01375	2.79e-04	5.11e-05	0.	-0.00510	0.007682
7D	-0.01733	3.74e-04	6.53e-05	0.	-0.00635	0.009533
8D	-0.01708	3.49e-04	6.37e-05	0.	-0.00634	0.009548
9D	0.007447	-8.5e-06	5.90e-06	0.	0.003394	-0.00515
10D	0.010447	-1.2e-05	8.27e-06	0.	0.004760	-0.00722
11D	0.065394	-2.4e-04	-2.1e-04	0.	0.031299	-0.04483
12D	0.064783	-2.8e-04	-2.2e-04	0.	0.030992	-0.04449
13D	0.195389	-6.1e-04	-5.4e-04	0.	0.093359	-0.13422
14D	0.193563	-6.9e-04	-5.5e-04	0.	0.092476	-0.13324
15D	-0.01295	3.51e-04	6.02e-05	0.	-0.00473	0.007331
16D	-0.01276	3.27e-04	5.90e-05	0.	-0.00473	0.007338
17D	-0.03606	7.95e-04	1.38e-04	0.	-0.01322	0.019887
18D	-0.03556	7.40e-04	1.35e-04	0.	-0.01319	0.019916
19D	0.006973	-8.1e-06	5.57e-06	0.	0.003185	-0.00482
20D	0.025610	-3.0e-05	2.05e-05	0.	0.011698	-0.01771

Nodo 125						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.04017	7.89e-07	-5.1e-04	0.	-0.02799	0.023352
2S	-0.01868	-2.4e-06	-4.0e-05	0.	-0.01304	0.010821
1D	0.112081	8.01e-05	1.16e-04	0.	0.054353	-0.05298
2D	0.112567	1.10e-04	1.21e-04	0.	0.054506	-0.05339
3D	0.139008	9.96e-05	1.44e-04	0.	0.067412	-0.06572
4D	0.139612	1.37e-04	1.50e-04	0.	0.067603	-0.06624
5D	-0.00760	2.78e-04	4.13e-05	0.	-0.00256	0.004090
6D	-0.00810	2.89e-04	3.97e-05	0.	-0.00270	0.004097
7D	-0.00944	3.47e-04	5.16e-05	0.	-0.00318	0.005088
8D	-0.01005	3.61e-04	4.95e-05	0.	-0.00335	0.005097
9D	-0.00922	-4.9e-06	-4.2e-06	0.	-0.00441	0.004107
10D	-0.01294	-6.9e-06	-5.9e-06	0.	-0.00619	0.005762
11D	0.096115	8.13e-05	1.18e-04	0.	0.046663	-0.04601
12D	0.096561	1.15e-04	1.24e-04	0.	0.046816	-0.04639
13D	0.287615	2.09e-04	3.02e-04	0.	0.139490	-0.13609
14D	0.288872	2.87e-04	3.15e-04	0.	0.139889	-0.13717
15D	-0.00700	3.25e-04	4.79e-05	0.	-0.00234	0.004109
16D	-0.00746	3.38e-04	4.60e-05	0.	-0.00246	0.004097
17D	-0.01964	7.36e-04	1.09e-04	0.	-0.00661	0.010654
18D	-0.02091	7.67e-04	1.05e-04	0.	-0.00696	0.010670
19D	-0.00864	-4.8e-06	-4.0e-06	0.	-0.00413	0.003847
20D	-0.03172	-1.8e-05	-1.5e-05	0.	-0.01519	0.014129

1D	0.097246	-2.3e-04	-1.7e-04	0.	0.046862	-0.04824
2D	0.096406	-2.6e-04	-1.7e-04	0.	0.046474	-0.04787
3D	0.120606	-2.9e-04	-2.1e-04	0.	0.058119	-0.05984
4D	0.119564	-3.3e-04	-2.1e-04	0.	0.057639	-0.05937
5D	-0.01337	2.99e-04	3.99e-05	0.	-0.00512	0.009289
6D	-0.01315	2.78e-04	3.92e-05	0.	-0.00512	0.009293
7D	-0.01660	3.73e-04	4.98e-05	0.	-0.00636	0.011547
8D	-0.01633	3.47e-04	4.90e-05	0.	-0.00636	0.011551
9D	0.008768	-8.2e-06	-5.6e-06	0.	0.004272	0.005868
10D	0.012300	-1.2e-05	-7.9e-06	0.	0.005993	0.008231
11D	0.083289	-2.4e-04	-1.7e-04	0.	0.040165	-0.04169
12D	0.082567	-2.8e-04	-1.7e-04	0.	0.039828	-0.04134
13D	0.249518	-6.1e-04	-4.3e-04	0.	0.120246	-0.12388
14D	0.247362	-6.9e-04	-4.4e-04	0.	0.119251	-0.12290
15D	-0.01238	3.49e-04	4.59e-05	0.	-0.00473	0.008937
16D	-0.01217	3.25e-04	4.52e-05	0.	-0.00473	0.008918
17D	-0.03455	7.92e-04	1.06e-04	0.	-0.01324	0.024099
18D	-0.03398	7.37e-04	1.04e-04	0.	-0.01322	0.024103
19D	0.008209	-7.8e-06	-5.3e-06	0.	0.004003	0.005495
20D	0.030151	-2.9e-05	-1.9e-05	0.	0.014703	0.020184

Nodo 127

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-0.04903	7.75e-06	-5.2e-04	-1.3e-05	-0.03287	0.016445
2S	-0.02278	-7.7e-07	-4.2e-05	1.50e-07	-0.01527	0.007618
1D	0.132685	8.19e-05	1.06e-04	-2.7e-05	0.060703	-0.04731
2D	0.133387	1.12e-04	1.10e-04	-3.6e-05	0.060907	-0.04785
3D	0.164559	1.02e-04	1.31e-04	-3.3e-05	0.075286	-0.05870
4D	0.165431	1.39e-04	1.37e-04	-4.5e-05	0.075540	-0.05937
5D	-0.00769	2.77e-04	3.07e-05	-9.8e-05	-0.00237	0.004617
6D	-0.00825	2.88e-04	2.92e-05	-1.0e-04	-0.00251	0.004623
7D	-0.00955	3.46e-04	3.83e-05	-1.2e-04	-0.00294	0.005746
8D	-0.01025	3.60e-04	3.65e-05	-1.3e-04	-0.00312	0.005753
9D	-0.01079	-4.8e-06	-4.2e-06	1.82e-06	-0.00492	0.003536
10D	-0.01514	-6.8e-06	-6.0e-06	2.56e-06	-0.00690	0.004961
11D	0.113705	8.32e-05	1.08e-04	-2.7e-05	0.052046	-0.04157
12D	0.114337	1.17e-04	1.13e-04	-3.8e-05	0.052240	-0.04201
13D	0.340467	2.14e-04	2.76e-04	-7.0e-05	0.155768	-0.12166
14D	0.342276	2.92e-04	2.87e-04	-9.5e-05	0.156299	-0.12304
15D	-0.00705	3.24e-04	3.53e-05	-1.1e-04	-0.00213	0.004691
16D	-0.00757	3.37e-04	3.36e-05	-1.2e-04	-0.00226	0.004697
17D	-0.01986	7.34e-04	8.11e-05	-2.6e-04	-0.00610	0.012043
18D	-0.02131	7.64e-04	7.73e-05	-2.7e-04	-0.00647	0.012057
19D	-0.01011	-4.7e-06	-4.0e-06	1.76e-06	-0.00461	0.003313
20D	-0.03712	-1.7e-05	-1.5e-05	6.46e-06	-0.01692	0.012170

Nodo 128

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.046295	-6.8e-05	-5.6e-04	2.09e-05	0.031429	-0.01804
2S	0.021553	-2.5e-05	-5.0e-05	9.55e-06	0.014621	-0.00835
1D	0.116598	-2.3e-04	-1.3e-04	1.13e-04	0.052939	-0.04752
2D	0.115642	-2.6e-04	-1.3e-04	1.24e-04	0.052534	-0.04725
3D	0.144603	-2.9e-04	-1.6e-04	1.41e-04	0.065654	-0.05896
4D	0.143417	-3.3e-04	-1.6e-04	1.54e-04	0.065152	-0.05862
5D	-0.01134	2.97e-04	2.96e-05	-1.0e-04	0.004176	-0.01050
6D	-0.01107	2.76e-04	2.94e-05	-9.7e-05	0.004183	-0.01062
7D	-0.01409	3.71e-04	3.70e-05	-1.3e-04	0.005186	-0.01304
8D	-0.01375	3.45e-04	3.66e-05	-1.2e-04	0.005195	-0.01320
9D	0.010241	-7.9e-06	-5.4e-06	-3.0e-06	0.004803	0.006149
10D	0.014366	-1.1e-05	-7.5e-06	-4.3e-06	0.006738	0.008625
11D	0.099707	-2.4e-04	-1.3e-04	1.17e-04	0.045292	-0.04148
12D	0.098875	-2.8e-04	-1.4e-04	1.29e-04	0.044940	-0.04122
13D	0.299131	-6.1e-04	-3.4e-04	2.95e-04	0.135819	-0.12213
14D	0.296674	-6.9e-04	-3.5e-04	3.24e-04	0.134778	-0.12143
15D	-0.01048	3.47e-04	3.39e-05	-1.2e-04	0.003844	-0.01003
16D	-0.01023	3.23e-04	3.37e-05	-1.1e-04	0.003845	-0.01014
17D	-0.02931	7.87e-04	7.83e-05	-2.8e-04	0.010786	-0.02721
18D	-0.02861	7.32e-04	7.76e-05	-2.6e-04	0.010804	-0.02753
19D	0.009587	-7.6e-06	-5.1e-06	-2.9e-06	0.004498	0.005761
20D	0.035214	-2.8e-05	-1.9e-05	-1.1e-05	0.016522	0.021161

Nodo 129

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-0.05447	1.46e-05	-5.4e-04	0.	-0.03651	0.008006
2S	-0.02530	9.42e-07	-4.3e-05	0.	-0.01699	0.003708
1D	0.149341	8.48e-05	1.01e-04	0.	0.069715	-0.03443
2D	0.150320	1.15e-04	1.04e-04	0.	0.070061	-0.03503
3D	0.185218	1.06e-04	1.25e-04	0.	0.086464	-0.04273
4D	0.186434	1.43e-04	1.30e-04	0.	0.086893	-0.04347
5D	-0.00792	2.78e-04	2.15e-05	0.	-0.00261	0.003726
6D	-0.00854	2.90e-04	2.02e-05	0.	-0.00275	0.003678
7D	-0.00984	3.48e-04	2.68e-05	0.	-0.00324	0.004635
8D	-0.01060	3.62e-04	2.52e-05	0.	-0.00342	0.004575
9D	-0.01206	-4.8e-06	-4.2e-06	0.	-0.00568	0.002574
10D	-0.01691	-6.7e-06	-5.9e-06	0.	-0.00797	0.003610
11D	0.128024	8.61e-05	1.03e-04	0.	0.059788	-0.03050
12D	0.128896	1.20e-04	1.08e-04	0.	0.060097	-0.03099
13D	0.383218	2.21e-04	2.62e-04	0.	0.178899	-0.08861
14D	0.385741	3.00e-04	2.73e-04	0.	0.179789	-0.09013
15D	-0.00728	3.26e-04	2.43e-05	0.	0.002373	0.003740

16D	-0.00784	3.39e-04	2.28e-05	0.	-0.00249	0.003678
17D	-0.02045	7.38e-04	5.67e-05	0.	-0.00674	0.009706
18D	-0.02205	7.68e-04	5.33e-05	0.	-0.00710	0.009576
19D	-0.01129	-4.7e-06	-4.0e-06	0.	-0.00532	0.002416
20D	-0.04146	-1.7e-05	-1.5e-05	0.	-0.01955	0.008875

Nodo 130

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.052523	-6.2e-05	-5.7e-04	0.	0.035262	-0.00995
2S	0.024433	-2.3e-05	-5.0e-05	0.	0.016411	-0.00459
1D	0.134212	-2.3e-04	-9.8e-05	0.	0.062387	-0.04092
2D	0.133173	-2.7e-04	-1.0e-04	0.	0.061944	-0.04090
3D	0.166447	-2.9e-04	-1.2e-04	0.	0.077372	-0.05078
4D	0.165157	-3.3e-04	-1.2e-04	0.	0.076822	-0.05075
5D	0.009145	2.97e-04	2.02e-05	0.	0.003378	-0.01023
6D	0.008802	2.77e-04	2.04e-05	0.	0.003386	-0.01048
7D	0.011358	3.71e-04	2.52e-05	0.	0.004195	-0.01271
8D	0.010933	3.45e-04	2.54e-05	0.	0.004205	-0.01302
9D	0.011886	-7.7e-06	-5.1e-06	0.	0.005679	0.005199
10D	0.016674	-1.1e-05	-7.2e-06	0.	0.007966	0.007294
11D	0.114751	-2.4e-04	-1.0e-04	0.	0.053384	-0.03599
12D	0.113837	-2.8e-04	-1.0e-04	0.	0.052994	-0.03598
13D	0.344315	-6.1e-04	-2.6e-04	0.	0.160061	-0.10525
14D	0.341642	-6.9e-04	-2.6e-04	0.	0.158920	-0.10520
15D	0.008481	3.48e-04	2.28e-05	0.	0.003100	-0.00969
16D	0.008151	3.24e-04	2.32e-05	0.	0.003103	-0.00992
17D	0.023638	7.88e-04	5.33e-05	0.	0.008723	-0.02649
18D	0.022749	7.33e-04	5.38e-05	0.	0.008742	-0.02714
19D	0.011128	-7.4e-06	-4.8e-06	0.	0.005322	0.004874
20D	0.040875	-2.7e-05	-1.8e-05	0.	0.019548	0.017901

Nodo 131

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-0.05648	2.39e-05	-5.4e-04	0.	-0.03790	0.001035
2S	-0.02623	2.88e-06	-4.4e-05	0.	-0.01758	4.81e-04
1D	0.157418	8.73e-05	9.88e-05	0.	0.073763	-0.00606
2D	0.158664	1.17e-04	1.02e-04	0.	0.074241	-0.00656
3D	0.195237	1.09e-04	1.23e-04	0.	0.091485	-0.00753
4D	0.196783	1.46e-04	1.27e-04	0.	0.092077	-0.00815
5D	-0.00780	2.79e-04	-1.4e-05	0.	-0.00252	-0.00362
6D	-0.00843	2.90e-04	-1.3e-05	0.	-0.00265	0.003663
7D	-0.00968	3.48e-04	-1.8e-05	0.	-0.00313	-0.00450
8D	-0.01047	3.62e-04	-1.7e-05	0.	-0.00329	0.004559
9D	-0.01263	-4.7e-06	-4.1e-06	0.	-0.00592	-7.3e-04
10D	-0.01771	-6.6e-06	-5.7e-06	0.	-0.00830	-0.00103
11D	0.135012	8.85e-05	1.02e-04	0.	0.063288	-0.00570
12D	0.136112	1.22e-04	1.05e-04	0.	0.063703	-0.00615
13D	0.403961	2.28e-04	2.58e-04	0.	0.189294	-0.01568
14D	0.407167	3.07e-04	2.67e-04	0.	0.190521	-0.01697
15D	-0.00715	3.26e-04	-1.5e-05	0.	-0.00229	0.003689
16D	-0.00774	3.39e-04	-1.4e-05	0.	-0.00239	0.003748
17D	-0.02014	7.39e-04	-3.7e-05	0.	-0.00650	-0.00944
18D	-0.02178	7.69e-04	-3.5e-05	0.	-0.00682	0.009560
19D	-0.01182	-4.6e-06	-3.9e-06	0.	-0.00555	-6.9e-04
20D	-0.04342	-1.7e-05	-1.4e-05	0.	-0.02038	-0.00253

Nodo 132

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.055546	-5.3e-05	-5.7e-04	0.	0.037252	-0.00363
2S	0.025822	-2.2e-05	-4.9e-05	0.	0.017309	-0.00165
1D	0.145925	-2.3e-04	-7.0e-05	0.	0.068376	-0.02038
2D	0.144893	-2.7e-04	-7.1e-05	0.	0.067938	-0.02070
3D	0.180974	-2.9e-04	-8.8e-05	0.	0.084800	-0.02531
4D	0.179693	-3.3e-04	-8.8e-05	0.	0.084257	-0.02570
5D	-0.00724	2.96e-04	1.14e-05	0.	-0.00249	-0.00985
6D	-0.00691	2.76e-04	1.20e-05	0.	-0.00247	-0.01009
7D	-0.00899	3.70e-04	1.42e-05	0.	-0.00310	-0.01224
8D	-0.00858	3.44e-04	1.50e-05	0.	-0.00307	-0.01253
9D	0.013044	-7.5e-06	-4.8e-06	0.	0.006160	0.002491
10D	0.018299	-1.1e-05	-6.7e-06	0.	0.008641	0.003494
11D	0.124826	-2.4e-04	-7.3e-05	0.	0.058557	-0.01857
12D	0.123912	-2.8e-04	-7.4e-05	0.	0.058164	-0.01887
13D	0.374378	-6.1e-04	-1.8e-04	0.	0.175438	-0.05258
14D	0.371722	-6.9e-04	-1.9e-04	0.	0.174311	-0.05340
15D	-0.00676	3.46e-04	1.23e-05	0.	-0.00232	-0.00926
16D	-0.00645	3.23e-04	1.33e-05	0.	-0.00228	-0.00948
17D	-0.01873	7.85e-04	2.98e-05	0.	-0.00644	-0.02549
18D	-0.01787	7.31e-04	3.16e-05	0.	-0.00638	-0.02611
19D	0.012213	-7.2e-06	-4.5e-06	0.	0.005777	0.002334
20D	0.044859	-2.6e-05	-1.7e-05	0.	0.021219	0.008572

6D	-0.00762	2.90e-04	-1.4e-05	0.	-0.00245	-0.00472
7D	-0.00871	3.48e-04	-1.8e-05	0.	-0.00287	-0.00582
8D	-0.00947	3.63e-04	-1.7e-05	0.	-0.00304	-0.00588
9D	-0.01221	-4.7e-06	-4.0e-06	0.	-0.00580	0.002293
10D	-0.01713	-6.6e-06	-5.5e-06	0.	-0.00813	0.003216
11D	0.131598	9.10e-05	1.05e-04	0.	0.061449	0.021117
12D	0.132860	1.25e-04	1.08e-04	0.	0.061997	0.020725
13D	0.393800	2.34e-04	2.66e-04	0.	0.183863	0.061641
14D	0.397485	3.13e-04	2.75e-04	0.	0.185471	0.060582
15D	-0.00641	3.27e-04	-1.5e-05	0.	-0.00206	-0.00473
16D	-0.00698	3.40e-04	-1.5e-05	0.	-0.00219	-0.00477
17D	-0.01811	7.40e-04	-3.8e-05	0.	-0.00595	-0.01219
18D	-0.01968	7.70e-04	-3.7e-05	0.	-0.00631	-0.01231
19D	-0.01143	-4.6e-06	-3.7e-06	0.	-0.00543	0.002154
20D	-0.04199	-1.7e-05	-1.4e-05	0.	-0.01995	0.007912

Nodo 134

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.055955	-4.5e-05	-5.6e-04	0.	0.037066	0.001789
2S	0.025995	-2.0e-05	-4.8e-05	0.	0.017231	8.77e-04
1D	0.148358	-2.4e-04	-4.6e-05	0.	0.069641	-0.00924
2D	0.147444	-2.7e-04	-4.6e-05	0.	0.069270	-0.00902
3D	0.183992	-2.3e-04	-5.8e-05	0.	0.086368	-0.01148
4D	0.182859	-3.3e-04	-5.7e-05	0.	0.085909	-0.01121
5D	-0.00595	2.95e-04	8.75e-06	0.	0.002750	0.009840
6D	-0.00580	2.75e-04	8.84e-06	0.	0.002782	0.010009
7D	-0.00739	3.69e-04	1.09e-05	0.	0.003416	0.012225
8D	-0.00720	3.43e-04	1.10e-05	0.	0.003457	0.012436
9D	0.013160	-7.3e-06	-4.5e-06	0.	0.006263	-0.00171
10D	0.018461	-1.0e-05	-6.3e-06	0.	0.008786	-0.00239
11D	0.126961	-2.5e-04	-4.9e-05	0.	0.059620	-0.00903
12D	0.126150	-2.8e-04	-4.8e-05	0.	0.059286	-0.00887
13D	0.380634	-6.2e-04	-1.2e-04	0.	0.178679	-0.02399
14D	0.378282	-7.0e-04	-1.2e-04	0.	0.177724	-0.02343
15D	-0.00556	3.45e-04	-9.3e-06	0.	0.002596	0.009269
16D	-0.00543	3.22e-04	9.71e-06	0.	0.002624	0.009420
17D	-0.01540	7.83e-04	2.29e-05	0.	0.007119	0.025472
18D	-0.01500	7.29e-04	2.33e-05	0.	0.007203	0.025910
19D	0.012321	-7.0e-06	-4.2e-06	0.	0.005869	-0.00162
20D	0.045255	-2.6e-05	-1.6e-05	0.	0.021555	-0.00594

Nodo 135

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-0.05127	4.13e-05	-5.5e-04	-1.8e-05	-0.03382	-0.01335
2S	-0.02382	6.64e-06	-4.3e-05	-2.6e-06	-0.01571	-0.00618
1D	0.140685	9.21e-05	1.09e-04	-2.3e-05	0.064101	0.038733
2D	0.142202	1.22e-04	1.12e-04	-3.3e-05	0.064761	0.038500
3D	0.174481	1.15e-04	1.36e-04	-2.9e-05	0.079501	0.048066
4D	0.176365	1.52e-04	1.40e-04	-4.1e-05	0.080320	0.047775
5D	-0.00608	2.78e-04	-2.1e-05	-9.8e-05	-0.00200	-0.00404
6D	-0.00663	2.89e-04	-2.1e-05	-1.0e-04	-0.00211	-0.00409
7D	-0.00755	3.47e-04	-2.6e-05	-1.2e-04	-0.00248	-0.00502
8D	-0.00823	3.61e-04	-2.6e-05	-1.3e-04	-0.00261	-0.00509
9D	-0.01111	-4.6e-06	-3.8e-06	1.70e-06	-0.00513	-0.00304
10D	-0.01559	-6.5e-06	-5.3e-06	2.38e-06	-0.00720	-0.00426
11D	0.120577	9.33e-05	1.12e-04	-2.3e-05	0.054960	0.034308
12D	0.121912	1.27e-04	1.15e-04	-3.4e-05	0.055538	0.034059
13D	0.360999	2.40e-04	2.85e-04	-6.0e-05	0.164490	0.099676
14D	0.364903	3.19e-04	2.93e-04	-8.5e-05	0.166187	0.099064
15D	-0.00556	3.26e-04	-2.3e-05	-1.1e-04	0.001774	-0.00392
16D	-0.00608	3.39e-04	-2.3e-05	-1.2e-04	-0.00187	-0.00396
17D	-0.01569	7.38e-04	-5.4e-05	-2.6e-04	-0.00514	-0.01048
18D	-0.01711	7.67e-04	-5.5e-05	-2.7e-04	-0.00542	-0.01062
19D	-0.01040	-4.5e-06	-3.6e-06	1.65e-06	-0.00481	-0.00285
20D	-0.03821	-1.7e-05	-1.3e-05	6.06e-06	-0.01765	-0.01046

Nodo 136

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.053772	-3.9e-05	-5.6e-04	1.71e-05	0.034950	0.008030
2S	0.024956	-1.8e-05	-4.7e-05	7.42e-06	0.016223	0.003792
1D	0.143892	-2.4e-04	-2.5e-05	1.07e-04	0.065288	0.018017
2D	0.143152	-2.7e-04	-2.4e-05	1.18e-04	0.065007	0.017372
3D	0.178455	-2.9e-04	-3.2e-05	1.33e-04	0.080970	0.022365
4D	0.177535	-3.3e-04	-3.0e-05	1.47e-04	0.080621	0.021564
5D	-0.00603	2.93e-04	-1.5e-05	-1.0e-04	0.003177	0.008915
6D	0.006068	2.73e-04	-1.4e-05	-9.6e-05	0.003214	0.009153
7D	-0.00749	3.66e-04	-1.8e-05	-1.3e-04	0.003948	0.011075
8D	0.007537	3.41e-04	-1.7e-05	-1.2e-04	0.003993	0.011372
9D	0.012438	-7.1e-06	-4.2e-06	-2.7e-06	0.005736	-0.00322
10D	0.017448	-1.0e-05	-5.8e-06	-3.8e-06	0.008046	-0.00452
11D	0.123141	-2.5e-04	-2.7e-05	1.11e-04	0.055867	0.016199
12D	0.122483	-2.8e-04	-2.6e-05	1.23e-04	0.055611	0.015615
13D	0.369178	-6.2e-04	-6.7e-05	2.80e-04	0.167505	0.046427
14D	0.367271	-7.0e-04	-6.3e-05	3.09e-04	0.166781	0.044763
15D	-0.00558	3.43e-04	-1.7e-05	-1.2e-04	0.002993	0.008370
16D	0.005638	3.20e-04	-1.6e-05	-1.1e-04	0.003030	0.008586
17D	-0.01558	7.77e-04	-3.9e-05	-2.7e-04	0.008226	0.023070
18D	0.015687	7.24e-04	-3.6e-05	-2.5e-04	0.008321	0.023686
19D	0.011644	6.82e-06	-3.9e-06	-2.6e-06	0.005371	-0.00303
20D	0.042769	2.50e-05	-1.4e-05	-9.5e-06	0.019728	-0.01112

Nodo 137

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	-0.04392	4.92e-05	-5.4e-04	0.	-0.02969	-0.01966
2S	-0.02041	8.40e-06	-4.1e-05	0.	-0.01383	-0.00912
1D	0.123476	9.54e-05	1.22e-04	0.	0.059373	0.046445
2D	0.124965	1.25e-04	1.25e-04	0.	0.060034	0.046532
3D	0.153139	1.19e-04	1.52e-04	0.	0.073638	0.057624
4D	0.154986	1.56e-04	1.55e-04	0.	0.074458	0.057733
5D	-0.00535	2.79e-04	-3.0e-05	0.	-0.00195	-0.00453
6D	-0.00586	2.91e-04	-3.0e-05	0.	-0.00207	-0.00465
7D	-0.00665	3.49e-04	-3.7e-05	0.	-0.00242	-0.00564
8D	-0.00727	3.63e-04	-3.7e-05	0.	-0.00257	-0.00579
9D	-0.00969	-4.6e-06	-3.5e-06	0.	-0.00473	-0.00356
10D	-0.01359	-6.5e-06	-4.9e-06	0.	-0.00663	-0.00500
11D	0.105835	9.65e-05	1.25e-04	0.	0.050978	0.040672
12D	0.107136	1.31e-04	1.28e-04	0.	0.051536	0.040737
13D	0.316844	2.49e-04	3.18e-04	0.	0.152373	0.119400
14D	0.320671	3.28e-04	3.25e-04	0.	0.154069	0.119623
15D	-0.00489	3.27e-04	-3.4e-05	0.	-0.00175	-0.00466
16D	-0.00537	3.40e-04	-3.4e-05	0.	-0.00187	-0.00479
17D	-0.01382	7.41e-04	-7.8e-05	0.	-0.00503	-0.01183
18D	-0.01512	7.71e-04	-7.9e-05	0.	-0.00534	-0.01216
19D	-0.00907	-4.6e-06	-3.3e-06	0.	-0.00443	-0.00334
20D	-0.03332	-1.7e-05	-1.2e-05	0.	-0.01627	-0.01226

Nodo 138

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	0.049032	-3.3e-05	-5.5e-04	0.	0.032633	0.013261
2S	0.022725	-1.7e-05	-4.5e-05	0.	0.015138	0.006233
1D	0.135502	-2.4e-04	1.11e-05	0.	0.064422	0.027974
2D	0.134918	-2.7e-04	9.20e-06	0.	0.064191	0.027398
3D	0.168048	-3.0e-04	1.38e-05	0.	0.079896	0.034722
4D	0.167324	-3.3e-04	1.15e-05	0.	0.079610	0.034008
5D	-0.00709	2.93e-04	-2.4e-05	0.	0.003466	0.008929
6D	-0.00717	2.73e-04	-2.2e-05	0.	0.003487	0.009130
7D	-0.00881	3.66e-04	-3.0e-05	0.	0.004306	0.011094
8D	-0.00891	3.41e-04	-2.7e-05	0.	0.004331	0.011344
9D	0.011316	-7.0e-06	-3.8e-06	0.	0.005509	-0.00443
10D	0.015874	-9.8e-06	-5.3e-06	0.	0.007728	-0.00622
11D	0.115922	-2.5e-04	-1.2e-05	0.	0.055135	0.025104
12D	0.115400	-2.8e-04	-1.0e-05	0.	0.054924	0.024574
13D	0.347642	-6.2e-04	-2.9e-05	0.	0.165286	0.072073
14D	0.346138	-7.0e-04	2.42e-05	0.	0.164690	0.070587
15D	-0.00649	3.43e-04	-2.8e-05	0.	0.003227	0.008400
16D	-0.00658	3.19e-04	-2.5e-05	0.	0.003242	0.008577
17D	-0.01832	7.77e-04	-6.3e-05	0.	0.008963	0.023114
18D	-0.01852	7.23e-04	-5.8e-05	0.	0.009015	0.023631
19D	0.010594	6.69e-06	-3.5e-06	0.	0.005162	-0.00415
20D	0.038911	2.46e-05	-1.3e-05	0.	0.018959	-0.01525

Nodo 139

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.03457	5.84e-05	-5.4e-04	0.	-0.02393	-0.02236
2S	-0.01608	1.01e-05	-4.0e-05	0.	-0.01110	-0.01037
1D	0.101958	9.72e-05	1.37e-04	0.	0.048952	0.056726
2D	0.103283	1.27e-04	1.40e-04	0.	0.049524	0.057198
3D	0.126454	1.21e-04	1.70e-04	0.	0.060716	0.070360
4D	0.128098	1.59e-04	1.74e-04	0.	0.061426	0.070945
5D	-0.00488	2.80e-04	-4.1e-05	0.	-0.00184	-0.00381
6D	-0.00532	2.91e-04	-4.1e-05	0.	-0.00195	-0.00394
7D	-0.00606	3.49e-04	-5.1e-05	0.	-0.00229	-0.00474
8D	-0.00661	3.64e-04	-5.1e-05	0.	-0.00243	-0.00490
9D	-0.00793	-4.6e-06	-3.3e-06	0.	-0.00379	-0.00448
10D	-0.01113	-6.5e-06	-4.6e-06	0.	-0.00531	-0.00628
11D	0.087505	9.83e-05	1.40e-04	0.	0.042164	0.048881
12D	0.088655	1.32e-04	1.42e-04	0.	0.042632	0.049288
13D	0.261656	2.53e-04	3.57e-04	0.	0.125662	0.145627
14D	0.265061	3.33e-04	3.64e-04	0.	0.127126	0.146839
15D	-0.00452	3.28e-04	-4.7e-05	0.	-0.00173	-0.00383
16D	-0.00495	3.41e-04	-4.8e-05	0.	-0.00185	-0.00395
17D	-0.01261	7.42e-04	-1.1e-04	0.	-0.00476	-0.00992
18D	-0.01376	7.72e-04	-1.1e-04	0.	-0.00506	-0.01027
19D	-0.00743	-4.6e-06	-3.1e-06	0.	-0.00355	-0.00419
20D	-0.02727	-1.7e-05	-1.2e-05	0.	-0.01304	-0.01540

11D	0.104416	-2.5e-04	1.71e-05	0.	0.049486	0.037501
12D	0.104001	-2.8e-04	2.03e-05	0.	0.049360	0.037137
13D	0.313151	-6.2e-04	4.55e-05	0.	0.148171	0.109640
14D	0.311973	-7.0e-04	5.27e-05	0.	0.147813	0.108592
15D	-0.00770	3.41e-04	-4.1e-05	0.	-0.00326	0.008530
16D	-0.00772	3.18e-04	-3.7e-05	0.	-0.00326	0.008748
17D	-0.02182	7.73e-04	-9.2e-05	0.	-0.00920	0.023110
18D	-0.02187	7.20e-04	-8.5e-05	0.	-0.00921	0.023711
19D	0.009288	6.56e-06	-3.1e-06	0.	0.004458	-0.00496
20D	0.034117	2.41e-05	-1.2e-05	0.	0.016374	-0.01823

Nodo 141

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02457	6.76e-05	-5.3e-04	0.	-0.01524	-0.02256
2S	-0.01144	1.16e-05	-3.8e-05	0.	-0.00714	-0.01047
1D	0.075044	9.79e-05	1.56e-04	0.	0.034670	0.067723
2D	0.076066	1.28e-04	1.59e-04	0.	0.035145	0.068487
3D	0.093078	1.22e-04	1.95e-04	0.	0.043004	0.083994
4D	0.094346	1.60e-04	1.98e-04	0.	0.043592	0.084941
5D	-0.00411	2.81e-04	-5.4e-05	0.	0.001575	-0.00399
6D	-0.00444	2.92e-04	-5.4e-05	0.	0.001624	-0.00424
7D	-0.00511	3.51e-04	-6.7e-05	0.	0.001957	-0.00497
8D	-0.00551	3.65e-04	-6.8e-05	0.	0.002018	-0.00527
9D	-0.00576	4.6e-06	-3.1e-06	0.	-0.00265	-0.00536
10D	-0.00807	-6.5e-06	-4.4e-06	0.	-0.00372	-0.00752
11D	0.064566	9.91e-05	1.59e-04	0.	0.029919	0.058126
12D	0.065450	1.33e-04	1.62e-04	0.	0.030321	0.058767
13D	0.192628	2.55e-04	4.08e-04	0.	0.089015	0.173797
14D	0.195254	3.35e-04	4.14e-04	0.	0.090232	0.175756
15D	-0.00387	3.29e-04	-6.2e-05	0.	0.001504	-0.00399
16D	-0.00419	3.42e-04	-6.3e-05	0.	0.001558	-0.00421
17D	-0.01065	7.45e-04	-1.4e-04	0.	0.004081	-0.01039
18D	-0.01148	7.75e-04	-1.4e-04	0.	0.004210	-0.01102
19D	-0.00539	4.6e-06	-3.0e-06	0.	-0.00249	-0.00502
20D	-0.01979	-1.7e-05	-1.1e-05	0.	-0.00914	-0.01845

Nodo 142

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.035564	-1.8e-05	-5.2e-04	0.	0.023438	0.016895
2S	0.016405	-1.4e-05	-3.8e-05	0.	0.010817	0.007911
1D	0.101967	-2.4e-04	3.32e-05	0.	0.047406	0.056807
2D	0.101627	-2.7e-04	3.81e-05	0.	0.047317	0.056497
3D	0.126461	-3.0e-04	4.13e-05	0.	0.058796	0.070467
4D	0.126038	-3.3e-04	4.74e-05	0.	0.058685	0.070083
5D	-0.00970	2.91e-04	-4.7e-05	0.	-0.00403	0.008733
6D	-0.00967	2.71e-04	-4.3e-05	0.	-0.00408	0.009033
7D	-0.01204	3.63e-04	-5.9e-05	0.	-0.00501	0.010857
8D	-0.01201	3.38e-04	-5.4e-05	0.	-0.00506	0.011231
9D	0.008265	6.72e-06	-2.9e-06	0.	0.003931	-0.00579
10D	0.011594	9.43e-06	-4.0e-06	0.	0.005514	-0.00812
11D	0.087331	-2.5e-04	3.32e-05	0.	0.040678	0.049214
12D	0.087011	-2.8e-04	3.89e-05	0.	0.040593	0.048951
13D	0.261631	-6.2e-04	8.65e-05	0.	0.121655	0.145900
14D	0.260751	-7.0e-04	9.94e-05	0.	0.121423	0.145105
15D	-0.00889	3.40e-04	-5.5e-05	0.	-0.00368	0.008481
16D	-0.00886	3.17e-04	-5.1e-05	0.	-0.00372	0.008770
17D	-0.02504	7.72e-04	-1.3e-04	0.	-0.01041	0.022678
18D	-0.02498	7.19e-04	-1.2e-04	0.	-0.01052	0.023458
19D	0.007737	6.46e-06	-2.8e-06	0.	0.003685	-0.00542
20D	0.028419	2.37e-05	-1.0e-05	0.	0.013534	-0.01993

Nodo 143

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.01456	7.56e-05	-5.2e-04	-3.5e-05	-0.00978	-0.02244
2S	-0.00679	1.27e-05	-3.7e-05	-5.6e-06	-0.00456	-0.01043
1D	0.045634	9.72e-05	1.79e-04	-1.5e-05	0.020805	0.066136
2D	0.046261	1.28e-04	1.82e-04	-2.5e-05	0.021125	0.067033
3D	0.056604	1.21e-04	2.23e-04	-1.8e-05	0.025806	0.082029
4D	0.057382	1.59e-04	2.26e-04	-3.1e-05	0.026203	0.083142
5D	0.002960	2.82e-04	-6.8e-05	-1.0e-04	0.001130	-0.00408
6D	0.003124	2.93e-04	-6.9e-05	-1.0e-04	0.001189	-0.00437
7D	0.003680	3.52e-04	-8.5e-05	-1.3e-04	0.001405	-0.00507
8D	0.003883	3.66e-04	-8.6e-05	-1.3e-04	0.001479	-0.00544
9D	-0.00342	4.7e-06	-3.1e-06	1.72e-06	-0.00155	-0.00517
10D	-0.00479	-6.5e-06	-4.3e-06	2.42e-06	-0.00218	-0.00725
11D	0.039412	9.84e-05	1.82e-04	-1.5e-05	0.017969	0.056871
12D	0.039948	1.33e-04	1.84e-04	-2.6e-05	0.018250	0.057644
13D	0.117174	2.53e-04	4.67e-04	-3.8e-05	0.053421	0.169754
14D	0.118784	3.33e-04	4.74e-04	-6.4e-05	0.054243	0.172058
15D	0.002841	3.30e-04	-7.9e-05	-1.2e-04	0.001109	-0.00405
16D	0.003001	3.43e-04	-8.0e-05	-1.2e-04	0.001189	-0.00434
17D	0.007677	7.48e-04	-1.8e-04	-2.7e-04	0.002937	-0.01061
18D	0.008103	7.77e-04	-1.8e-04	-2.8e-04	0.003095	-0.01138
19D	-0.00320	4.6e-06	-3.0e-06	1.68e-06	-0.00145	-0.00484
20D	-0.01175	-1.7e-05	-1.1e-05	6.15e-06	-0.00534	-0.01777

Nodo 144

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.027851	-1.1e-05	-4.9e-04	3.91e-06	0.017788	0.017768
2S	0.012798	-1.3e-05	-3.5e-05	5.53e-06	0.008166	0.008297

1D	0.078071	-2.4e-04	4.94e-05	1.06e-04	0.036053	0.058436
2D	0.077840	-2.7e-04	5.61e-05	1.18e-04	0.036002	0.058211
3D	0.096831	-3.0e-04	6.15e-05	1.32e-04	0.044716	0.072478
4D	0.096543	-3.3e-04	6.99e-05	1.47e-04	0.044654	0.072199
5D	-0.01058	2.90e-04	-6.0e-05	-1.1e-04	-0.00439	0.007749
6D	-0.01058	2.70e-04	-5.6e-05	-1.0e-04	-0.00445	0.007962
7D	-0.01315	3.62e-04	-7.5e-05	-1.3e-04	-0.00545	0.009634
8D	-0.01315	3.37e-04	-6.9e-05	-1.2e-04	-0.00553	0.009899
9D	0.006592	6.63e-06	-2.5e-06	-2.6e-06	0.003087	0.005147
10D	0.009247	9.30e-06	-3.5e-06	-3.7e-06	0.004331	0.007221
11D	0.067103	-2.5e-04	5.01e-05	1.10e-04	0.031011	0.050257
12D	0.066877	-2.8e-04	5.78e-05	1.23e-04	0.030955	0.050066
13D	0.200380	-6.2e-04	1.29e-04	2.78e-04	0.092539	0.149989
14D	0.199778	-7.0e-04	1.47e-04	3.09e-04	0.092407	0.149412
15D	-0.00985	3.39e-04	-7.1e-05	-1.3e-04	-0.00406	0.007525
16D	-0.00983	3.16e-04	-6.5e-05	-1.2e-04	-0.00412	0.007733
17D	-0.02737	7.69e-04	-1.6e-04	-2.9e-04	-0.01134	0.020122
18D	-0.02736	7.16e-04	-1.5e-04	-2.7e-04	-0.01151	0.020675
19D	0.006171	6.38e-06	-2.4e-06	-2.5e-06	0.002892	0.004821
20D	0.022668	2.34e-05	-8.9e-06	-9.2e-06	0.010621	0.017709

Nodo 145

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00576	8.87e-05	-5.1e-04	0.	-5.0e-04	-0.01711
2S	-0.00270	1.40e-05	-3.8e-05	0.	-2.3e-04	-0.00794
1D	0.019190	9.42e-05	2.09e-04	0.	0.009390	0.053421
2D	0.019446	1.25e-04	2.11e-04	0.	0.009524	0.054159
3D	0.023806	1.17e-04	2.60e-04	0.	0.011650	0.066266
4D	0.024123	1.55e-04	2.63e-04	0.	0.011815	0.067181
5D	0.001612	2.85e-04	-8.7e-05	0.	-8.6e-04	0.003962
6D	0.001670	2.97e-04	-8.9e-05	0.	-8.9e-04	0.004137
7D	0.002005	3.56e-04	-1.1e-04	0.	-0.00107	0.004928
8D	0.002077	3.71e-04	-1.1e-04	0.	-0.00111	0.005145
9D	-0.00137	4.7e-06	-3.3e-06	0.	-6.4e-04	-0.00405
10D	-0.00192	-6.6e-06	-4.6e-06	0.	-8.9e-04	-0.00568
11D	0.016668	9.55e-05	2.12e-04	0.	0.008179	0.046233
12D	0.016882	1.30e-04	2.14e-04	0.	0.008294	0.046856
13D	0.049298	2.46e-04	5.45e-04	0.	0.024129	0.137196
14D	0.049954	3.27e-04	5.51e-04	0.	0.024472	0.139087
15D	0.001603	3.34e-04	-1.0e-04	0.	-9.1e-04	0.003923
16D	0.001661	3.47e-04	-1.0e-04	0.	-9.5e-04	0.004093
17D	0.004195	7.57e-04	-2.3e-04	0.	-0.00226	0.010307
18D	0.004346	7.87e-04	-2.4e-04	0.	-0.00234	0.010761
19D	-0.00128	-4.6e-06	-3.2e-06	0.	-6.0e-04	-0.00379
20D	-0.00471	-1.7e-05	-1.2e-05	0.	-0.00219	-0.01393

Nodo 146

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.020077	1.45e-06	-4.7e-04	0.	0.013952	0.017161
2S	0.009183	-1.1e-05	-3.1e-05	0.	0.006339	0.007949
1D	0.054856	-2.4e-04	6.82e-05	0.	0.028118	0.052073
2D	0.054717	-2.7e-04	7.71e-05	0.	0.028054	0.051905
3D	0.068046	-3.0e-04	8.49e-05	0.	0.034879	0.064583
4D	0.067873	-3.4e-04	9.60e-05	0.	0.034799	0.064375
5D	-0.01069	2.92e-04	-7.8e-05	0.	-0.00489	0.006705
6D	-0.01073	2.72e-04	-7.2e-05	0.	-0.00496	0.006755
7D	-0.01329	3.65e-04	-9.7e-05	0.	-0.00608	0.008334
8D	-0.01333	3.40e-04	-8.9e-05	0.	-0.00616	0.008396
9D	0.005070	6.61e-06	-2.3e-06	0.	0.002608	0.004182
10D	0.007112	9.28e-06	-3.2e-06	0.	0.003659	0.005867
11D	0.047475	-2.5e-04	6.97e-05	0.	0.024353	0.044682
12D	0.047336	-2.8e-04	7.98e-05	0.	0.024275	0.044526
13D	0.140880	-6.3e-04	1.78e-04	0.	0.072215	0.133630
14D	0.140518	-7.1e-04	2.01e-04	0.	0.072045	0.133197
15D	-0.01009	3.42e-04	-9.1e-05	0.	-0.00460	0.006439
16D	-0.01012	3.19e-04	-8.4e-05	0.	-0.00466	0.006482
17D	-0.02769	7.75e-04	-2.1e-04	0.	-0.01266	0.017391
18D	-0.02779	7.22e-04	-1.9e-04	0.	-0.01284	0.017518
19D	0.004747	6.37e-06	-2.3e-06	0.	0.002445	0.003916
20D	0.017436	2.34e-05	-8.3e-06	0.	0.008980	0.014385

16D	3.27e-04	3.48e-04	-1.3e-04	-1.4e-04	2.81e-04	0.005068
17D	-7.8e-04	7.58e-04	-2.9e-04	-3.0e-04	-6.5e-04	0.012600
18D	7.61e-04	7.88e-04	-3.0e-04	-3.1e-04	6.52e-04	0.012563
19D	-2.2e-05	-4.6e-06	-3.7e-06	-2.1e-06	-2.9e-05	-0.00197
20D	-8.1e-05	-1.7e-05	-1.4e-05	-7.6e-06	-1.1e-04	-0.00725

Nodo 148

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	7.19e-06	-0.00241	-5.5e-04	0.002649	0.	0.002874
2S	-3.4e-05	-0.00112	-4.6e-05	0.001217	0.	0.001384
1D	0.001919	0.007675	-5.9e-05	-0.00450	0.	-0.01050
2D	0.002022	0.007701	-6.9e-05	-0.00452	0.	-0.01064
3D	0.002389	0.009525	-7.3e-05	-0.00558	0.	-0.01303
4D	0.002517	0.009556	-8.6e-05	-0.00561	0.	-0.01320
5D	-3.0e-04	0.002169	-5.9e-05	0.001686	0.	0.001335
6D	2.93e-04	0.002179	-6.4e-05	0.001750	0.	0.001355
7D	-3.7e-04	0.002701	-7.4e-05	0.002102	0.	0.001662
8D	3.66e-04	0.002714	-8.0e-05	0.002181	0.	0.001687
9D	-2.2e-05	-6.0e-04	-3.5e-06	3.18e-04	0.	7.24e-04
10D	-3.1e-05	-8.4e-04	-4.9e-06	4.45e-04	0.	0.001016
11D	0.001963	0.006811	-5.9e-05	-0.00404	0.	-0.00914
12D	0.002075	0.006789	-7.1e-05	-0.00403	0.	-0.00925
13D	0.005009	0.019754	-1.5e-04	-0.01158	0.	-0.02698
14D	0.005279	0.019809	-1.8e-04	-0.01163	0.	-0.02733
15D	3.38e-04	0.002287	-6.9e-05	0.001853	0.	0.001379
16D	3.33e-04	0.002296	-7.5e-05	0.001928	0.	0.001403
17D	-7.9e-04	0.005680	-1.6e-04	0.004436	0.	0.003488
18D	7.75e-04	0.005706	-1.7e-04	0.004605	0.	0.003542
19D	-2.2e-05	-5.6e-04	-3.4e-06	3.07e-04	0.	6.78e-04
20D	-8.1e-05	-0.00206	-1.2e-05	0.001128	0.	0.002492

Nodo 149

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.68e-05	2.85e-04	-5.5e-04	4.99e-05	0.001240	0.003065
2S	-2.2e-05	1.63e-04	-4.4e-05	-6.1e-06	4.63e-04	0.001438
1D	0.001914	-1.3e-04	-3.9e-04	8.00e-05	0.001627	-0.00705
2D	0.002016	-1.2e-04	-4.1e-04	7.84e-05	0.001707	-0.00686
3D	0.002382	-1.6e-04	-4.8e-04	9.97e-05	0.002024	-0.00877
4D	0.002509	-1.5e-04	-5.1e-04	9.77e-05	0.002123	-0.00852
5D	-3.0e-04	2.65e-04	4.66e-05	-1.3e-04	-2.6e-04	-0.00529
6D	2.91e-04	2.65e-04	4.40e-05	-1.3e-04	2.70e-04	-0.00534
7D	-3.7e-04	3.30e-04	5.80e-05	-1.7e-04	-3.2e-04	-0.00659
8D	3.63e-04	3.30e-04	5.49e-05	-1.6e-04	3.37e-04	-0.00665
9D	-2.2e-05	2.01e-05	6.49e-06	3.30e-06	5.44e-05	6.49e-04
10D	-3.1e-05	2.81e-05	9.10e-06	4.63e-06	7.63e-05	9.11e-04
11D	0.001957	-1.4e-04	-3.9e-04	8.84e-05	0.001629	-0.00668
12D	0.002068	-1.4e-04	-4.2e-04	8.64e-05	0.001715	-0.00638
13D	0.004994	-3.4e-04	-0.00101	2.11e-04	0.004236	-0.01826
14D	0.005263	-3.2e-04	-0.00107	2.06e-04	0.004445	-0.01773
15D	3.36e-04	3.08e-04	5.07e-05	-1.6e-04	2.94e-04	-0.00558
16D	3.30e-04	3.08e-04	4.86e-05	-1.5e-04	3.08e-04	-0.00563
17D	-7.9e-04	7.01e-04	1.22e-04	-3.5e-04	-6.9e-04	-0.01386
18D	7.69e-04	7.01e-04	1.16e-04	-3.5e-04	7.13e-04	-0.01398
19D	-2.2e-05	-2.0e-05	6.37e-06	3.76e-06	5.20e-05	6.13e-04
20D	-8.1e-05	-7.3e-05	2.34e-05	1.38e-05	1.91e-04	0.002250

Nodo 150

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.012654	1.49e-05	-4.5e-04	1.99e-05	0.008463	0.016201
2S	0.005754	-1.0e-05	-2.7e-05	6.23e-06	0.003832	0.007460
1D	0.034337	-2.4e-04	8.88e-05	1.03e-04	0.017426	0.043871
2D	0.034268	-2.7e-04	1.00e-04	1.15e-04	0.017388	0.043753
3D	0.042600	-3.0e-04	1.11e-04	1.29e-04	0.021622	0.054416
4D	0.042514	-3.4e-04	1.25e-04	1.43e-04	0.021574	0.054270
5D	-0.00938	2.93e-04	-9.8e-05	-1.1e-04	-0.00390	-0.00735
6D	-0.00944	2.73e-04	-9.1e-05	-9.8e-05	-0.00396	-0.00736
7D	-0.01166	3.66e-04	-1.2e-04	-1.3e-04	-0.00485	-0.00913
8D	-0.01173	3.41e-04	-1.1e-04	-1.2e-04	-0.00492	-0.00915
9D	0.003551	6.59e-06	-2.3e-06	-2.6e-06	0.001720	0.003804
10D	0.004981	9.24e-06	-3.2e-06	-3.6e-06	0.002413	0.005336
11D	0.030001	-2.5e-04	9.13e-05	1.07e-04	0.015301	0.037862
12D	0.029933	-2.8e-04	1.04e-04	1.19e-04	0.015247	0.037743
13D	0.088257	-6.3e-04	2.32e-04	2.70e-04	0.044809	0.112639
14D	0.088077	-7.1e-04	2.62e-04	3.00e-04	0.044706	0.112332
15D	-0.00895	3.43e-04	-1.1e-04	-1.2e-04	-0.00372	-0.00697
16D	-0.00900	3.20e-04	-1.1e-04	-1.1e-04	-0.00377	-0.00697
17D	-0.02432	7.78e-04	-2.6e-04	-2.8e-04	-0.01012	-0.01904
18D	-0.02446	7.25e-04	-2.4e-04	-2.6e-04	-0.01026	-0.01907
19D	0.003326	6.35e-06	-2.3e-06	-2.5e-06	0.001614	0.003562
20D	0.012215	2.33e-05	-8.5e-06	-9.1e-06	0.005927	0.013084

Nodo 151

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-4.8e-04	3.15e-04	-5.7e-04	0.	0.001101	-7.0e-04
2S	-2.6e-04	1.70e-04	-6.3e-05	0.	4.72e-04	-3.6e-04
1D	0.001798	-1.3e-04	-3.2e-04	0.	0.001777	0.004604
2D	0.001839	-1.2e-04	-3.5e-04	0.	0.001835	0.004747
3D	0.002233	-1.6e-04	-4.0e-04	0.	0.002209	0.005717
4D	0.002285	-1.5e-04	-4.3e-04	0.	0.002282	0.005896
5D	0.001497	2.66e-04	6.23e-05	0.	-0.00205	-0.00236

6D	0.001508	2.67e-04	-6.4e-05	0.	-0.00206	-0.00236
7D	0.001862	3.33e-04	7.78e-05	0.	-0.00255	-0.00293
8D	0.001877	3.33e-04	-8.0e-05	0.	-0.00257	-0.00294
9D	-1.4e-04	2.08e-05	-7.4e-06	0.	1.66e-04	2.29e-04
10D	-2.0e-04	2.92e-05	-1.0e-05	0.	2.33e-04	3.21e-04
11D	0.001683	-1.4e-04	-3.3e-04	0.	0.001718	0.004239
12D	0.001724	-1.4e-04	-3.5e-04	0.	0.001785	0.004406
13D	0.004649	-3.3e-04	-8.5e-04	0.	0.004611	0.011887
14D	0.004757	-3.2e-04	-9.0e-04	0.	0.004765	0.012267
15D	0.001515	3.10e-04	7.14e-05	0.	-0.00206	-0.00237
16D	0.001528	3.10e-04	-7.4e-05	0.	-0.00208	-0.00237
17D	0.003903	7.06e-04	1.65e-04	0.	-0.00534	-0.00615
18D	0.003934	7.06e-04	-1.7e-04	0.	-0.00538	-0.00615
19D	-1.3e-04	-2.0e-05	7.11e-06	0.	1.66e-04	2.16e-04
20D	-4.9e-04	-7.5e-05	2.61e-05	0.	6.10e-04	7.93e-04

Nodo 152

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.005737	2.88e-05	-4.3e-04	0.	0.003793	0.014874
2S	0.002585	-9.0e-06	-2.3e-05	0.	0.001609	0.006777
1D	0.015949	-2.5e-04	1.14e-04	0.	0.009452	0.040083
2D	0.015922	-2.8e-04	1.28e-04	0.	0.009446	0.040021
3D	0.019791	-3.1e-04	1.41e-04	0.	0.011730	0.049733
4D	0.019757	-3.4e-04	1.59e-04	0.	0.011722	0.049656
5D	-0.00600	2.97e-04	-1.2e-04	0.	-0.00296	-0.01107
6D	-0.00604	2.77e-04	-1.1e-04	0.	-0.00297	-0.01115
7D	-0.00746	3.71e-04	-1.6e-04	0.	-0.00368	-0.01376
8D	-0.00750	3.46e-04	-1.4e-04	0.	-0.00370	-0.01385
9D	0.001825	6.65e-06	-2.7e-06	0.	9.53e-04	0.004225
10D	0.002560	9.32e-06	-3.7e-06	0.	0.001337	0.005926
11D	0.014066	-2.5e-04	1.17e-04	0.	0.008376	0.035149
12D	0.014040	-2.9e-04	1.33e-04	0.	0.008366	0.035089
13D	0.041029	-6.4e-04	2.97e-04	0.	0.024326	0.103060
14D	0.040959	-7.2e-04	3.34e-04	0.	0.024308	0.102899
15D	-0.00578	3.48e-04	-1.5e-04	0.	-0.00290	-0.01057
16D	-0.00581	3.24e-04	-1.3e-04	0.	-0.00290	-0.01064
17D	-0.01557	7.88e-04	-3.3e-04	0.	-0.00769	-0.02871
18D	-0.01566	7.34e-04	-3.0e-04	0.	-0.00772	-0.02889
19D	0.001709	6.41e-06	-2.7e-06	0.	8.94e-04	0.003957
20D	0.006279	2.35e-05	-9.8e-06	0.	0.003285	0.014535

Nodo 153

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-2.4e-05	3.35e-04	-5.8e-04	-3.7e-04	-1.1e-04	-0.00135
2S	-3.5e-05	1.73e-04	-8.1e-05	-1.4e-04	-1.8e-05	-6.7e-04
1D	-1.1e-04	-1.3e-04	-2.6e-04	-1.6e-04	4.60e-04	0.005297
2D	-1.2e-04	1.22e-04	-2.8e-04	-1.7e-04	4.85e-04	0.005372
3D	-1.3e-04	-1.6e-04	-3.3e-04	-2.0e-04	5.73e-04	0.006586
4D	-1.4e-04	-1.5e-04	-3.5e-04	-2.1e-04	6.03e-04	0.006678
5D	5.77e-05	2.68e-04	-9.7e-05	-2.2e-04	6.53e-05	0.008783
6D	-4.5e-05	2.68e-04	-9.9e-05	-2.2e-04	6.66e-05	0.008807
7D	7.20e-05	3.34e-04	-1.2e-04	-2.7e-04	8.15e-05	0.010926
8D	-5.7e-05	3.35e-04	-1.2e-04	-2.7e-04	8.31e-05	0.010956
9D	6.88e-06	2.10e-05	-8.7e-06	-1.6e-05	-6.8e-06	-7.4e-04
10D	9.64e-06	2.94e-05	-1.2e-05	-2.3e-05	-9.5e-06	-0.00103
11D	-1.1e-04	-1.4e-04	-2.7e-04	-1.6e-04	4.65e-04	0.005152
12D	-1.2e-04	-1.4e-04	-2.9e-04	-1.7e-04	4.91e-04	0.005214
13D	-2.8e-04	-3.3e-04	-6.9e-04	-4.2e-04	0.001200	0.013755
14D	-3.0e-04	-3.2e-04	-7.4e-04	-4.4e-04	0.001263	0.013946
15D	6.56e-05	3.11e-04	-1.1e-04	-2.5e-04	-7.4e-05	0.008779
16D	5.06e-05	3.12e-04	-1.2e-04	-2.5e-04	-7.6e-05	0.008801
17D	1.52e-04	7.09e-04	-2.6e-04	-5.7e-04	1.72e-04	0.022875
18D	-1.2e-04	7.10e-04	-2.6e-04	-5.7e-04	1.76e-04	0.022938
19D	6.68e-06	2.06e-05	-8.3e-06	-1.6e-05	-6.8e-06	-6.9e-04
20D	2.45e-05	7.57e-05	-3.0e-05	-5.8e-05	-2.5e-05	-0.00254

Nodo 155						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-2.0e-05	-0.00433	-4.1e-04	0.003350	0.	-0.00143
2S	-2.7e-05	-0.00198	-2.9e-05	0.001481	0.	-6.5e-04
1D	-1.2e-04	-0.01484	-1.8e-05	0.009861	0.	0.009197
2D	-1.4e-04	-0.01483	-1.9e-05	0.009849	0.	0.009415
3D	-1.5e-04	-0.01842	-2.3e-05	0.012240	0.	0.011439
4D	-1.7e-04	-0.01841	-2.4e-05	0.012224	0.	0.011711
5D	6.55e-05	0.016004	-1.0e-04	-0.00567	0.	-0.01956
6D	5.17e-05	0.016041	-9.6e-05	-0.00567	0.	-0.01958
7D	8.17e-05	0.019903	-1.3e-04	-0.00705	0.	-0.02433
8D	6.45e-05	0.019950	-1.2e-04	-0.00705	0.	-0.02436
9D	6.60e-06	-0.00216	-2.4e-06	0.001304	0.	9.59e-04
10D	9.26e-06	-0.00303	-3.4e-06	0.001829	0.	0.001344
11D	-1.3e-04	-0.01343	-1.9e-05	0.008827	0.	0.009111
12D	-1.4e-04	-0.01343	-2.0e-05	0.008815	0.	0.009339
13D	-3.2e-04	-0.03826	-4.8e-05	0.025403	0.	0.023928
14D	-3.5e-04	-0.03825	-5.0e-05	0.025370	0.	0.024499
15D	7.51e-05	0.015743	-1.2e-04	-0.00558	0.	-0.01942
16D	5.85e-05	0.015778	-1.1e-04	-0.00557	0.	-0.01944
17D	1.73e-04	0.041618	-2.7e-04	-0.01474	0.	-0.05091
18D	1.36e-04	0.041714	-2.5e-04	-0.01473	0.	-0.05097
19D	6.40e-06	-0.00202	-2.4e-06	0.001222	0.	9.06e-04
20D	2.35e-05	-0.00743	-8.7e-06	0.004487	0.	0.003329

Nodo 156						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-1.7e-05	4.15e-05	-4.0e-04	-9.9e-06	4.30e-04	0.010982
2S	-2.5e-05	-8.1e-06	-1.9e-05	5.61e-06	4.53e-05	0.004952
1D	-1.3e-04	-2.5e-04	1.38e-04	1.25e-04	6.51e-04	0.032024
2D	-1.4e-04	-2.8e-04	1.55e-04	1.39e-04	6.78e-04	0.031966
3D	-1.6e-04	-3.1e-04	1.71e-04	1.56e-04	8.09e-04	0.039744
4D	-1.8e-04	-3.5e-04	1.93e-04	1.73e-04	8.43e-04	0.039671
5D	7.38e-05	2.99e-04	-1.5e-04	-1.3e-04	-3.1e-04	-0.01705
6D	5.81e-05	2.79e-04	-1.4e-04	-1.2e-04	-2.9e-04	-0.01712
7D	9.21e-05	3.74e-04	-1.9e-04	-1.6e-04	-3.9e-04	-0.02120
8D	7.24e-05	3.48e-04	-1.7e-04	-1.5e-04	-3.6e-04	-0.02129
9D	7.50e-06	6.69e-06	-3.2e-06	-3.2e-06	6.22e-05	0.003996
10D	1.05e-05	9.38e-06	-4.4e-06	-4.5e-06	8.73e-05	0.005606
11D	-1.4e-04	-2.6e-04	1.42e-04	1.28e-04	6.54e-04	0.028462
12D	-1.5e-04	-2.9e-04	1.61e-04	1.43e-04	6.84e-04	0.028404
13D	-3.4e-04	-6.5e-04	3.60e-04	3.27e-04	0.001695	0.082441
14D	-3.7e-04	-7.3e-04	4.05e-04	3.62e-04	0.001766	0.082288
15D	8.45e-05	3.50e-04	-1.8e-04	-1.5e-04	-3.3e-04	-0.01659
16D	6.57e-05	3.27e-04	-1.6e-04	-1.4e-04	-3.1e-04	-0.01664
17D	1.95e-04	7.94e-04	-4.0e-04	-3.4e-04	-8.2e-04	-0.04429
18D	1.53e-04	7.40e-04	-3.7e-04	-3.2e-04	-7.7e-04	-0.04446
19D	7.24e-06	6.45e-06	-3.2e-06	-3.1e-06	5.91e-05	0.003743
20D	2.66e-05	2.37e-05	-1.2e-05	-1.1e-05	2.17e-04	0.013747

Nodo 157						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.72e-05	-1.9e-05	-4.6e-04	-5.1e-05	1.12e-04	0.008661
2S	1.63e-05	-9.4e-06	-3.7e-05	-7.4e-06	2.58e-05	0.004169
1D	0.001919	1.17e-04	2.47e-04	-3.5e-05	5.84e-04	-0.04214
2D	0.001897	1.54e-04	2.56e-04	-4.1e-05	5.75e-04	-0.04221
3D	0.002388	1.46e-04	3.07e-04	-4.4e-05	7.26e-04	-0.05228
4D	0.002359	1.91e-04	3.19e-04	-5.1e-05	7.15e-04	-0.05236
5D	2.17e-04	3.61e-04	1.33e-04	-7.4e-05	6.95e-05	0.008532
6D	-2.5e-04	3.75e-04	1.30e-04	-7.6e-05	8.15e-05	0.008642
7D	2.71e-04	4.51e-04	1.66e-04	-9.3e-05	8.66e-05	0.010605
8D	-3.2e-04	4.68e-04	1.62e-04	-9.5e-05	1.02e-04	0.010741
9D	-2.4e-05	-7.1e-06	-5.5e-06	-1.6e-06	-8.6e-06	-0.00427
10D	-3.4e-05	-9.9e-06	-7.7e-06	-2.3e-06	-1.2e-05	-0.00600
11D	0.001931	1.18e-04	2.50e-04	-3.3e-05	5.93e-04	-0.03678
12D	0.001899	1.59e-04	2.60e-04	-4.0e-05	5.81e-04	-0.03681
13D	0.005000	3.05e-04	6.43e-04	-9.1e-05	0.001522	-0.10831
14D	0.004938	4.02e-04	6.69e-04	-1.1e-04	0.001499	-0.10847
15D	2.38e-04	4.23e-04	1.56e-04	-8.7e-05	7.59e-05	0.008191
16D	-2.9e-04	4.38e-04	1.52e-04	-8.9e-05	9.19e-05	0.008300
17D	5.72e-04	9.57e-04	3.53e-04	-2.0e-04	1.83e-04	0.022128
18D	-6.7e-04	9.93e-04	3.44e-04	-2.0e-04	2.15e-04	0.022414
19D	-2.4e-05	-6.8e-06	-5.2e-06	-1.6e-06	-8.3e-06	-0.00400
20D	-8.6e-05	-2.5e-05	-1.9e-05	-5.7e-06	-3.0e-05	-0.01470

Nodo 158						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.82e-05	0.001307	-4.9e-04	0.004801	5.31e-05	-0.00300
2S	1.75e-05	6.81e-04	-4.4e-05	0.002208	1.75e-05	-0.00123
1D	0.001905	-0.01511	1.73e-05	-0.00626	5.48e-04	-0.02249
2D	0.001882	-0.01513	2.98e-05	-0.00623	5.41e-04	-0.02253
3D	0.002370	-0.01875	2.16e-05	-0.00777	6.82e-04	-0.02791
4D	0.002341	-0.01878	3.72e-05	-0.00773	6.73e-04	-0.02795
5D	2.16e-04	0.004508	1.21e-04	-0.00184	6.30e-05	0.010816
6D	-2.5e-04	0.004527	1.27e-04	-0.00181	7.34e-05	0.010765
7D	2.69e-04	0.005605	1.52e-04	-0.00229	7.86e-05	0.013451
8D	-3.1e-04	0.005627	1.58e-04	-0.00225	9.16e-05	0.013386
9D	-2.4e-05	-0.00186	-5.1e-06	6.15e-04	-7.5e-06	-0.00377
10D	-3.4e-05	-0.00261	-7.1e-06	8.63e-04	-1.0e-05	-0.00529

11D	0.001916	-0.01325	1.76e-05	-0.00549	5.56e-04	-0.01992
12D	0.001885	-0.01325	3.17e-05	-0.00546	5.45e-04	-0.01989
13D	0.004962	-0.03885	4.52e-05	-0.01610	0.001429	-0.05787
14D	0.004901	-0.03890	7.82e-05	-0.01602	0.001409	-0.05795
15D	2.36e-04	0.004375	1.42e-04	0.001911	6.86e-05	0.010657
16D	-2.8e-04	0.004388	1.48e-04	0.001870	8.26e-05	0.010574
17D	5.67e-04	0.011704	3.22e-04	-0.00482	1.66e-04	0.028123
18D	-6.6e-04	0.011751	3.36e-04	-0.00473	1.94e-04	0.027981
19D	-2.3e-05	-0.00174	-4.8e-06	5.76e-04	-7.2e-06	-0.00353
20D	-8.6e-05	-0.00641	-1.8e-05	0.002116	-2.6e-05	-0.01297

Nodo 159						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.83e-04	-0.03682	-5.2e-04	0.016497	6.51e-05	-0.00749
2S	4.81e-05	-0.01671	-4.6e-05	0.007499	7.68e-06	-0.00336
1D	0.001675	-0.01391	2.71e-04	-0.00169	5.40e-04	0.016941
2D	0.001653	-0.01421	2.64e-04	-0.00149	5.36e-04	0.016886
3D	0.002084	-0.01729	3.37e-04	-0.00210	6.72e-04	0.021028
4D	0.002057	-0.01766	3.28e-04	-0.00186	6.67e-04	0.020961
5D	1.94e-04	0.033002	9.27e-05	-0.00170	5.84e-05	0.004755
6D	2.30e-04	0.032970	8.55e-05	-0.00171	-6.5e-05	0.004793
7D	2.42e-04	0.041009	1.16e-04	-0.00212	7.28e-05	0.005912
8D	2.87e-04	0.040970	1.07e-04	-0.00212	-8.1e-05	0.005959
9D	-2.3e-05	-0.01092	-4.2e-06	0.001123	-6.7e-06	-0.00175
10D	-3.2e-05	-0.01532	-5.9e-06	0.001575	-9.3e-06	-0.00246
11D	0.001691	-0.01313	2.71e-04	-0.00161	5.44e-04	0.015205
12D	0.001660	-0.01344	2.63e-04	-0.00141	5.38e-04	0.015232
13D	0.004365	-0.03603	7.05e-04	-0.00437	0.001406	0.043644
14D	0.004306	-0.03680	6.86e-04	-0.00387	0.001396	0.043521
15D	2.12e-04	0.031234	1.08e-04	-0.00170	6.36e-05	0.004622
16D	2.61e-04	0.031207	9.98e-05	-0.00171	-7.3e-05	0.004663
17D	5.10e-04	0.085484	2.46e-04	-0.00443	1.54e-04	0.012348
18D	6.08e-04	0.085404	2.27e-04	-0.00445	-1.7e-04	0.012447
19D	-2.2e-05	-0.01022	-4.1e-06	0.001064	-6.4e-06	-0.00165
20D	-8.0e-05	-0.03755	-1.5e-05	0.003907	-2.4e-05	-0.00607

Nodo 160						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.92e-04	-0.03769	-5.3e-04	0.023990	2.95e-05	0.002531
2S	4.93e-05	-0.01709	-4.8e-05	0.010920	8.35e-06	0.001219
1D	0.001685	-0.01644	1.19e-04	0.002614	5.37e-04	0.017072
2D	0.001663	-0.01632	1.13e-04	0.002677	5.33e-04	0.017141
3D	0.002096	-0.02041	1.48e-04	0.003250	6.68e-04	0.021195
4D	0.002068	-0.02026	1.40e-04	0.003329	6.63e-04	0.021283
5D	1.95e-04	0.033451	8.94e-05	-0.00231	5.81e-05	-0.00434
6D	2.31e-04	0.033428	8.25e-05	-0.00233	-6.4e-05	-0.00430
7D	2.43e-04	0.041566	1.12e-04	-0.00287	7.24e-05	-0.00540
8D	2.89e-04	0.041537	1.03e-04	-0.00290	-8.0e-05	-0.00535
9D	-2.3e-05	-0.01125	-3.9e-06	0.001852	-6.7e-06	0.001257
10D	-3.2e-05	-0.01578	-5.5e-06	0.002598	-9.4e-06	0.001764
11D	0.001701	-0.01494	1.18e-04	0.002565	5.41e-04	0.015500
12D	0.001670	-0.01487	1.11e-04	0.002644	5.35e-04	0.015644
13D	0.004390	-0.04241	3.09e-04	0.006793	0.001399	0.044027
14D	0.004330	-0.04211	2.94e-04	0.006961	0.001388	0.044227
15D	2.13e-04	0.031621	1.05e-04	-0.00221	6.32e-05	-0.00439
16D	2.62e-04	0.031602	9.67e-05	-0.00223	-7.2e-05	-0.00433
17D	5.12e-04	0.086637	2.37e-04	-0.00599	1.53e-04	-0.01132
18D	6.11e-04	0.086578	2.19e-04	-0.00605	-1.7e-04	-0.01120
19D	-2.2e-05	-0.01053	-3.8e-06	0.001740	-6.5e-06	0.001194
20D	-8.0e-05	-0.03867	-1.4e-05	0.006390	-2.4e-05	0.004384

1D	0.001681	-3.6e-04	-4.7e-04	1.18e-04	1.54e-04	-0.04197
2D	0.001660	-4.0e-04	-4.8e-04	1.25e-04	1.58e-04	-0.04120
3D	0.002092	-4.5e-04	-5.8e-04	1.47e-04	1.91e-04	-0.05206
4D	0.002065	-5.0e-04	-6.0e-04	1.56e-04	1.96e-04	-0.05112
5D	1.93e-04	3.88e-04	1.27e-04	-7.2e-05	-1.9e-05	-0.02157
6D	-2.3e-04	3.61e-04	1.23e-04	-6.7e-05	-1.7e-05	-0.02151
7D	2.41e-04	4.85e-04	1.58e-04	-9.0e-05	-2.3e-05	-0.02679
8D	-2.9e-04	4.51e-04	1.53e-04	-8.4e-05	-2.1e-05	-0.02672
9D	-2.3e-05	-1.2e-05	9.44e-06	-2.5e-06	-2.3e-06	0.008461
10D	-3.3e-05	-1.7e-05	1.32e-05	-3.5e-06	-3.2e-06	0.011869
11D	0.001697	-3.8e-04	-4.8e-04	1.20e-04	1.55e-04	-0.03657
12D	0.001667	-4.2e-04	-4.9e-04	1.29e-04	1.59e-04	-0.03589
13D	0.004381	-9.5e-04	-0.00122	3.08e-04	4.01e-04	-0.10784
14D	0.004323	-0.00105	-0.00125	3.27e-04	4.11e-04	-0.10587
15D	2.11e-04	4.54e-04	1.47e-04	-8.5e-05	-2.1e-05	-0.02019
16D	-2.6e-04	4.23e-04	1.42e-04	-7.8e-05	-1.9e-05	-0.02014
17D	5.08e-04	0.001029	3.36e-04	-1.9e-04	-4.9e-05	-0.05580
18D	-6.1e-04	9.58e-04	3.25e-04	-1.8e-04	-4.5e-05	-0.05565
19D	-2.2e-05	-1.2e-05	8.97e-06	-2.4e-06	-2.3e-06	0.007922
20D	-8.2e-05	-4.3e-05	3.30e-05	-8.8e-06	-8.3e-06	0.029097

Nodo 163

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00470	-1.3e-05	-4.8e-04	0.	-5.5e-04	0.024183
2S	-0.00221	-8.5e-06	-3.9e-05	0.	-2.9e-04	0.011313
1D	0.016766	1.14e-04	2.20e-04	0.	6.15e-04	-0.06563
2D	0.016802	1.51e-04	2.29e-04	0.	5.92e-04	-0.06569
3D	0.020799	1.42e-04	2.74e-04	0.	7.67e-04	-0.08141
4D	0.020843	1.88e-04	2.85e-04	0.	7.38e-04	-0.08149
5D	-0.00221	3.59e-04	1.17e-04	0.	8.26e-04	0.007024
6D	-0.00225	3.73e-04	1.14e-04	0.	8.26e-04	0.007258
7D	-0.00275	4.48e-04	1.46e-04	0.	0.001029	0.008729
8D	-0.00280	4.65e-04	1.42e-04	0.	0.001029	0.009020
9D	0.001389	-7.0e-06	-5.2e-06	0.	-2.5e-04	0.005480
10D	0.001949	-9.8e-06	-7.3e-06	0.	-3.5e-04	0.007687
11D	0.014585	1.15e-04	2.23e-04	0.	6.51e-04	-0.05690
12D	0.014620	1.57e-04	2.33e-04	0.	6.20e-04	-0.05695
13D	0.043076	2.98e-04	5.74e-04	0.	0.001613	-0.16857
14D	0.043169	3.95e-04	5.97e-04	0.	0.001551	-0.16874
15D	-0.00211	4.21e-04	1.36e-04	0.	8.66e-04	0.006690
16D	-0.00215	4.36e-04	1.33e-04	0.	8.63e-04	0.006936
17D	-0.00573	9.52e-04	3.09e-04	0.	0.002162	0.018202
18D	-0.00584	9.88e-04	3.01e-04	0.	0.002162	0.018813
19D	0.001301	-6.7e-06	-4.9e-06	0.	-2.4e-04	0.005130
20D	0.004778	-2.5e-05	-1.8e-05	0.	-8.7e-04	0.018843

Nodo 164

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.002536	-1.3e-04	-5.9e-04	0.	0.003644	-0.01776
2S	0.001186	-4.1e-05	-6.0e-05	0.	0.001700	-0.00841
1D	0.015129	-3.6e-04	-4.1e-04	0.	7.31e-04	-0.05618
2D	0.014910	-4.0e-04	-4.2e-04	0.	7.56e-04	-0.05548
3D	0.018768	-4.5e-04	-5.1e-04	0.	9.10e-04	-0.06968
4D	0.018495	-5.0e-04	-5.2e-04	0.	9.42e-04	-0.06882
5D	0.005269	3.86e-04	1.11e-04	0.	-8.5e-04	-0.01609
6D	0.005244	3.60e-04	1.08e-04	0.	-8.0e-04	-0.01601
7D	0.006546	4.83e-04	1.39e-04	0.	-0.00105	-0.01998
8D	0.006514	4.49e-04	1.34e-04	0.	-1.0e-03	-0.01989
9D	-0.00224	-1.2e-05	8.69e-06	0.	3.60e-04	0.007355
10D	-0.00315	-1.7e-05	1.22e-05	0.	5.04e-04	0.010317
11D	0.013121	-3.7e-04	-4.2e-04	0.	7.60e-04	-0.04864
12D	0.012925	-4.2e-04	-4.2e-04	0.	7.86e-04	-0.04803
13D	0.038861	-9.4e-04	-0.00107	0.	0.001911	-0.14428
14D	0.038296	-0.00105	-0.00109	0.	0.001978	-0.14248
15D	0.004907	4.52e-04	1.29e-04	0.	-8.8e-04	-0.01495
16D	0.004883	4.21e-04	1.25e-04	0.	-8.4e-04	-0.01488
17D	0.013627	0.001024	2.95e-04	0.	-0.00222	-0.04160
18D	0.013561	9.53e-04	2.85e-04	0.	-0.00210	-0.04140
19D	-0.00210	-1.1e-05	8.25e-06	0.	3.46e-04	0.006885
20D	-0.00771	-4.2e-05	3.03e-05	0.	0.001269	0.025290

Nodo 165

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.01287	-6.9e-06	-4.9e-04	-2.3e-05	-0.00450	0.032490
2S	-0.00602	-7.7e-06	-4.0e-05	7.32e-07	-0.00213	0.015126
1D	0.037310	1.12e-04	1.97e-04	-2.8e-05	-0.00109	-0.07767
2D	0.037370	1.48e-04	2.05e-04	-3.5e-05	0.001183	-0.07780
3D	0.046281	1.39e-04	2.45e-04	-3.5e-05	-0.00136	-0.09634
4D	0.046356	1.85e-04	2.55e-04	-4.4e-05	0.001473	-0.09650
5D	-0.00399	3.58e-04	1.01e-04	-7.8e-05	8.43e-04	0.006256
6D	-0.00409	3.72e-04	9.89e-05	-8.0e-05	9.81e-04	0.006495
7D	-0.00495	4.47e-04	1.27e-04	-9.8e-05	0.001049	0.007772
8D	-0.00508	4.64e-04	1.23e-04	-1.0e-04	0.001220	0.008070
9D	-0.00307	-6.9e-06	-5.0e-06	1.75e-06	-5.5e-04	0.006343
10D	-0.00430	-9.6e-06	-7.0e-06	2.45e-06	-7.7e-04	0.008899
11D	0.032306	1.13e-04	1.99e-04	-2.9e-05	-0.00114	-0.06698
12D	0.032363	1.54e-04	2.08e-04	-3.7e-05	0.001232	-0.06710
13D	0.095822	2.91e-04	5.13e-04	-7.3e-05	-0.00285	-0.19941
14D	0.095979	3.88e-04	5.35e-04	-9.2e-05	0.003094	-0.19974
15D	-0.00376	4.19e-04	1.18e-04	-9.2e-05	8.33e-04	0.005884

16D	-0.00386	4.35e-04	1.15e-04	-9.4e-05	9.80e-04	0.006115
17D	-0.01032	9.49e-04	2.69e-04	-2.1e-04	0.002193	0.016191
18D	-0.01059	9.85e-04	2.62e-04	-2.1e-04	0.002555	0.016812
19D	-0.00287	-6.6e-06	-4.8e-06	1.67e-06	-5.2e-04	0.005939
20D	-0.01055	-2.4e-05	-1.8e-05	6.13e-06	-0.00190	0.021813

Nodo 166

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.009207	-1.2e-04	-6.0e-04	5.24e-06	0.004674	-0.02856
2S	0.004324	-4.0e-05	-5.9e-05	8.25e-06	0.002189	-0.01338
1D	0.032628	-3.6e-04	-3.6e-04	1.27e-04	-0.00131	-0.06588
2D	0.032220	-4.0e-04	-3.6e-04	1.36e-04	-0.00130	-0.06524
3D	0.040473	-4.4e-04	-4.4e-04	1.58e-04	-0.00163	-0.08171
4D	0.039967	-4.9e-04	-4.5e-04	1.69e-04	-0.00162	-0.08093
5D	0.009169	3.85e-04	9.72e-05	-8.1e-05	-0.00110	0.013788
6D	0.009117	3.58e-04	9.39e-05	-7.5e-05	-9.8e-04	0.013728
7D	0.011390	4.81e-04	1.21e-04	-1.0e-04	-0.00137	0.017128
8D	0.011325	4.47e-04	1.17e-04	-9.4e-05	-0.00121	0.017053
9D	-0.00418	-1.2e-05	8.09e-06	-2.8e-06	5.63e-04	-0.00684
10D	-0.00587	-1.7e-05	1.13e-05	-4.0e-06	7.90e-04	-0.00959
11D	0.028212	-3.7e-04	-3.6e-04	1.30e-04	-0.00140	-0.05681
12D	0.027854	-4.1e-04	-3.7e-04	1.39e-04	-0.00138	-0.05626
13D	0.038788	-9.3e-04	-9.3e-04	3.32e-04	-0.00343	-0.16914
14D	0.082739	-0.00104	-9.5e-04	3.54e-04	-0.00341	-0.16750
15D	0.008514	4.50e-04	1.12e-04	-9.5e-05	-0.00107	0.012869
16D	0.008465	4.19e-04	1.09e-04	-8.8e-05	-9.5e-04	0.012812
17D	0.023706	0.001021	2.57e-04	-2.2e-04	-0.00286	0.035664
18D	0.023571	9.50e-04	2.49e-04	-2.0e-04	-0.00253	0.035508
19D	-0.00392	-1.1e-05	7.66e-06	-2.7e-06	5.33e-04	-0.00640
20D	-0.01438	-4.1e-05	2.81e-05	-1.0e-05	0.001959	-0.02351

Nodo 167

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02877	1.84e-06	-5.2e-04	0.	-0.01038	0.038957
2S	-0.01342	-6.2e-06	-4.3e-05	0.	-0.00483	0.018112
1D	0.073105	1.08e-04	1.69e-04	0.	0.002259	-0.08462
2D	0.073245	1.44e-04	1.76e-04	0.	-0.00266	-0.08485
3D	0.090676	1.34e-04	2.10e-04	0.	0.002810	-0.10496
4D	0.090850	1.80e-04	2.19e-04	0.	-0.00332	-0.10524
5D	-0.00609	3.56e-04	8.16e-05	0.	0.001738	0.005545
6D	-0.00630	3.69e-04	7.94e-05	0.	0.001918	0.005830
7D	-0.00756	4.44e-04	1.02e-04	0.	0.002161	0.006893
8D	-0.00783	4.61e-04	9.91e-05	0.	0.002384	0.007248
9D	-0.00596	-6.7e-06	-5.0e-06	0.	-0.00124	0.006873
10D	-0.00836	-9.4e-06	-7.0e-06	0.	-0.00175	0.009641
11D	0.063006	1.09e-04	1.71e-04	0.	-0.00226	-0.07272
12D	0.063142	1.50e-04	1.79e-04	0.	-0.00273	-0.07294
13D	0.187679	2.80e-04	4.40e-04	0.	0.005883	-0.21719
14D	0.188042	3.78e-04	4.59e-04	0.	-0.00696	-0.21779
15D	-0.00565	4.17e-04	9.52e-05	0.	0.001693	0.005397
16D	-0.00585	4.32e-04	9.26e-05	0.	0.001856	0.005680
17D	-0.01574	9.43e-04	2.16e-04	0.	0.004514	0.014396
18D	-0.01630	9.79e-04	2.10e-04	0.	0.004978	0.015138
19D	-0.00558	-6.5e-06	-4.7e-06	0.	-0.00117	0.006435
20D	-0.02049	-2.4e-05	-1.7e-05	0.	-0.00431	0.023637

Nodo 168

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.024126	-1.1e-04	-6.1e-04	0.	0.010623	-0.03847
2S	0.011291	-3.8e-05	-5.9e-05	0.	0.004959	-0.01792
1D	0.063019	-3.5e-04	-2.9e-04	0.	-0.00275	-0.07182
2D	0.062358	-3.9e-04	-3.0e-04	0.	-0.00285	-0.07125
3D	0.078165	-4.4e-04	-3.6e-04	0.	-0.00342	-0.08908
4D	0.077345	-4.9e-04	-3.7e-04	0.	-0.00356	-0.08837
5D	0.013419	3.82e-04	7.87e-05	0.	-0.00225	0.011493
6D	0.013332	3.56e-04	7.62e-05	0.	-0.00200	0.011523
7D	0.016668	4.77e-04	9.83e-05	0.	-0.00280	0.014280
8D	0.016559	4.44e-04	9.51e-05	0.	-0.00248	0.014317
9D	-0.00676	-1.1e-05	7.48e-06	0.	0.001263	-0.00663
10D	-0.00949	-1.6e-05	1.05e-05	0.	0.001771	-0.00929
11D	0.054286	-3.6e-04	-3.0e-04	0.	-0.00293	-0.06166
12D	0.053711	-4.1e-04	-3.0e-04	0.	-0.00302	-0.06115
13D	0.161778	-9.1e-04	-7.6e-04	0.	-0.00720	-0.18432
14D	0.160080	-0.00102	-7.7e-04	0.	-0.00748	-0.18284
15D	0.012442	4.47e-04	9.09e-05	0.	-0.00218	0.010828
16D	0.012357	4.16e-04	8.82e-05	0.	-0.00192	0.010865
17D	0.034689	0.001013	2.08e-04	0.	-0.00584	0.029756
18D	0.034461	9.43e-04	2.02e-04	0.	-0.00518	0.029834
19D	-0.00633	-1.1e-05	7.08e-06	0.	0.001190	-0.00620
20D	-0.02326	-4.0e-05	2.60e-05	0.	0.004371	-0.02279

6D	-0.00769	3.68e-04	6.24e-05	0.	0.002714	-0.00459
7D	-0.00914	4.42e-04	8.03e-05	0.	0.003009	-0.00546
8D	-0.00955	4.59e-04	7.79e-05	0.	0.003374	-0.00571
9D	-0.00878	-6.6e-06	-5.0e-06	0.	-0.00186	0.006181
10D	-0.01232	-9.2e-06	-7.1e-06	0.	-0.00261	0.008671
11D	0.092989	1.06e-04	1.49e-04	0.	-0.00297	-0.06563
12D	0.093242	1.48e-04	1.56e-04	0.	-0.00363	-0.06587
13D	0.277764	2.74e-04	3.80e-04	0.	-0.00771	-0.19595
14D	0.278442	3.71e-04	3.97e-04	0.	-0.00922	-0.19665
15D	-0.00678	4.15e-04	7.49e-05	0.	0.002357	-0.00439
16D	-0.00708	4.30e-04	7.26e-05	0.	0.002642	-0.00460
17D	-0.01902	9.39e-04	1.70e-04	0.	0.006285	-0.01143
18D	-0.01986	9.75e-04	1.65e-04	0.	0.007048	-0.01195
19D	-0.00822	-6.4e-06	-4.8e-06	0.	-0.00176	0.005787
20D	-0.03019	-2.3e-05	-1.8e-05	0.	-0.00646	0.021254

Nodo 170

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.041693	-9.8e-05	-6.2e-04	0.	0.016213	-0.04046
2S	0.019461	-3.6e-05	-6.0e-05	0.	0.007561	-0.01879
1D	0.092974	-3.4e-04	-2.3e-04	0.	-0.00347	-0.06556
2D	0.092109	-3.8e-04	-2.4e-04	0.	-0.00387	-0.06508
3D	0.115313	-4.3e-04	-2.9e-04	0.	-0.00432	-0.08131
4D	0.114239	-4.8e-04	-3.0e-04	0.	-0.00482	-0.08071
5D	-0.01538	3.80e-04	6.25e-05	0.	-0.00286	0.009194
6D	-0.01528	3.53e-04	6.07e-05	0.	-0.00250	0.009276
7D	-0.01911	4.74e-04	7.80e-05	0.	-0.00355	0.011426
8D	-0.01898	4.41e-04	7.58e-05	0.	-0.00310	0.011528
9D	0.008901	-1.1e-05	-7.1e-06	0.	0.001872	-0.00663
10D	0.012487	-1.5e-05	-9.9e-06	0.	0.002626	-0.00930
11D	0.079828	-3.6e-04	-2.4e-04	0.	-0.00368	-0.05615
12D	0.079079	-4.0e-04	-2.4e-04	0.	-0.00409	-0.05574
13D	0.238608	-9.0e-04	-6.1e-04	0.	-0.00910	-0.16821
14D	0.236385	-0.00101	-6.3e-04	0.	-0.01014	-0.16698
15D	-0.01425	4.44e-04	7.21e-05	0.	-0.00278	0.008766
16D	-0.01415	4.14e-04	7.02e-05	0.	-0.00240	0.008845
17D	-0.03976	0.001007	1.65e-04	0.	-0.00742	0.023831
18D	-0.03950	9.37e-04	1.61e-04	0.	-0.00647	0.024043
19D	0.008333	-1.1e-05	-6.7e-06	0.	0.001772	-0.00620
20D	0.030608	-3.9e-05	-2.5e-05	0.	0.006509	-0.02279

Nodo 171

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.06282	1.65e-05	-5.7e-04	0.	-0.02115	0.034163
2S	-0.02921	-2.7e-06	-4.9e-05	0.	-0.00981	0.015799
1D	0.137464	1.03e-04	1.28e-04	0.	-0.00261	-0.06115
2D	0.137884	1.40e-04	1.34e-04	0.	-0.00302	-0.06155
3D	0.170489	1.29e-04	1.59e-04	0.	-0.00325	-0.07585
4D	0.171011	1.74e-04	1.67e-04	0.	-0.00376	-0.07635
5D	-0.00769	3.53e-04	4.90e-05	0.	0.002810	0.004406
6D	-0.00811	3.67e-04	4.73e-05	0.	0.003130	0.004461
7D	-0.00954	4.41e-04	6.12e-05	0.	0.003492	0.005480
8D	-0.01007	4.58e-04	5.90e-05	0.	0.003890	0.005549
9D	-0.01112	-6.4e-06	-5.1e-06	0.	-0.00234	0.004922
10D	-0.01559	-9.0e-06	-7.2e-06	0.	-0.00328	0.006904
11D	0.117887	1.05e-04	1.31e-04	0.	-0.00264	-0.05307
12D	0.118284	1.46e-04	1.37e-04	0.	-0.00312	-0.05341
13D	0.352753	2.69e-04	3.34e-04	0.	-0.00681	-0.15708
14D	0.353842	3.67e-04	3.49e-04	0.	-0.00789	-0.15811
15D	-0.00704	4.13e-04	5.69e-05	0.	0.002657	0.004370
16D	-0.00742	4.29e-04	5.49e-05	0.	0.002967	0.004453
17D	-0.01984	9.36e-04	1.30e-04	0.	0.007278	0.011463
18D	-0.02093	9.72e-04	1.25e-04	0.	0.008108	0.011614
19D	-0.01041	-6.2e-06	-4.9e-06	0.	-0.00220	0.004609
20D	-0.03822	-2.3e-05	-1.8e-05	0.	-0.00807	0.016929

Nodo 172

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.058564	-8.9e-05	-6.3e-04	0.	0.020976	-0.03535
2S	0.027283	-3.4e-05	-6.0e-05	0.	0.009749	-0.01636
1D	0.118562	-3.4e-04	-1.9e-04	0.	-0.00287	-0.05563
2D	0.117551	-3.8e-04	-1.9e-04	0.	-0.00340	-0.05521
3D	0.147042	-4.2e-04	-2.3e-04	0.	-0.00358	-0.06901
4D	0.145787	-4.7e-04	-2.4e-04	0.	-0.00423	-0.06848
5D	-0.01473	3.78e-04	4.81e-05	0.	-0.00309	0.010486
6D	-0.01463	3.51e-04	4.70e-05	0.	-0.00275	0.010591
7D	-0.01829	4.72e-04	6.01e-05	0.	-0.00384	0.013032
8D	-0.01817	4.39e-04	5.87e-05	0.	-0.00342	0.013163
9D	0.010691	-1.1e-05	-6.8e-06	0.	0.002315	-0.00689
10D	0.014997	-1.5e-05	-9.5e-06	0.	0.003248	-0.00967
11D	0.101527	-3.5e-04	-1.9e-04	0.	-0.00296	-0.04801
12D	0.100653	-4.0e-04	-2.0e-04	0.	-0.00353	-0.04760
13D	0.304207	-8.9e-04	-4.9e-04	0.	-0.00750	-0.14284
14D	0.301609	-9.9e-04	-5.0e-04	0.	-0.00888	-0.14174
15D	-0.01361	4.42e-04	5.54e-05	0.	-0.00292	0.010023
16D	-0.01351	4.11e-04	5.42e-05	0.	-0.00259	0.010123
17D	-0.03806	0.001002	1.27e-04	0.	-0.00800	0.027186
18D	-0.03779	9.32e-04	1.24e-04	0.	-0.00712	0.027459
19D	0.010008	-1.0e-05	-6.4e-06	0.	0.002179	-0.00646
20D	0.036759	-3.7e-05	-2.3e-05	0.	0.008005	-0.02371

Nodo 173

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.07568	2.37e-05	-5.9e-04	-1.8e-05	-0.02484	0.023652
2S	-0.03516	-7.0e-07	-5.2e-05	-6.9e-08	-0.01154	0.010949
1D	0.161644	1.03e-04	1.15e-04	-2.2e-05	0.003019	-0.05580
2D	0.162314	1.39e-04	1.21e-04	-2.9e-05	0.003056	-0.05648
3D	0.200476	1.28e-04	1.44e-04	-2.7e-05	0.003750	-0.06924
4D	0.201308	1.74e-04	1.50e-04	-3.6e-05	0.003797	-0.07008
5D	-0.00766	3.53e-04	3.54e-05	-7.7e-05	0.002893	0.005048
6D	-0.00816	3.66e-04	3.39e-05	-8.0e-05	0.003224	0.004991
7D	-0.00951	4.40e-04	4.41e-05	-9.7e-05	0.003594	0.006282
8D	-0.01013	4.57e-04	4.22e-05	-9.9e-05	0.004005	0.006212
9D	-0.01302	-6.3e-06	-5.2e-06	1.55e-06	-0.00263	0.004213
10D	-0.01827	-8.8e-06	-7.3e-06	2.18e-06	-0.00369	0.005910
11D	0.138526	1.04e-04	1.19e-04	-2.2e-05	0.002818	-0.04890
12D	0.139139	1.46e-04	1.24e-04	-3.0e-05	0.002926	-0.04949
13D	0.414778	2.68e-04	3.01e-04	-5.6e-05	0.007805	-0.14347
14D	0.416507	3.65e-04	3.15e-04	-7.5e-05	0.007920	-0.14521
15D	-0.00696	4.13e-04	4.07e-05	-9.1e-05	0.002718	0.005150
16D	-0.00742	4.29e-04	3.90e-05	-9.3e-05	0.003038	0.005105
17D	-0.01976	9.35e-04	9.35e-05	-2.1e-04	0.007488	0.013172
18D	-0.02105	9.71e-04	8.96e-05	-2.1e-04	0.008346	0.013027
19D	-0.01219	-6.1e-06	-4.9e-06	1.49e-06	-0.00247	0.003947
20D	-0.04478	-2.2e-05	-1.8e-05	5.47e-06	-0.00906	0.014497

Nodo 174

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.072045	-8.1e-05	-6.3e-04	1.06e-05	0.024325	-0.02523
2S	0.033524	-3.2e-05	-6.1e-05	7.32e-06	0.011299	-0.01168
1D	0.141330	-3.4e-04	-1.4e-04	1.18e-04	-0.00281	-0.05629
2D	0.140201	-3.8e-04	-1.5e-04	1.27e-04	0.003145	-0.05599
3D	0.175274	-4.2e-04	-1.8e-04	1.47e-04	-0.00350	-0.06983
4D	0.173873	-4.7e-04	-1.8e-04	1.58e-04	0.003914	-0.06946
5D	-0.01236	3.77e-04	3.51e-05	-8.1e-05	-0.00301	-0.01189
6D	0.012245	3.50e-04	3.46e-05	-7.5e-05	-0.00271	-0.01209
7D	-0.01536	4.70e-04	4.38e-05	-1.0e-04	-0.00374	-0.01478
8D	0.015207	4.37e-04	4.32e-05	-9.4e-05	-0.00336	-0.01502
9D	0.012530	-1.0e-05	-6.5e-06	-2.5e-06	0.002586	0.007058
10D	0.017577	-1.4e-05	-9.2e-06	-3.5e-06	0.003627	0.009901
11D	0.120840	-3.5e-04	-1.5e-04	1.21e-04	-0.00283	-0.04898
12D	0.119856	-3.9e-04	-1.5e-04	1.31e-04	0.003193	-0.04868
13D	0.362577	-8.8e-04	-3.8e-04	3.09e-04	-0.00732	-0.14463
14D	0.359673	-9.9e-04	-3.9e-04	3.32e-04	0.008203	-0.14385
15D	-0.01140	4.40e-04	4.01e-05	-9.5e-05	-0.00282	-0.01132
16D	-0.01128	4.10e-04	3.97e-05	-8.8e-05	-0.00253	-0.01150
17D	-0.03194	9.99e-04	9.27e-05	-2.1e-04	-0.00780	-0.03082
18D	0.031631	9.29e-04	9.15e-05	-2.0e-04	-0.00700	-0.03133
19D	0.011729	-9.9e-06	-6.1e-06	-2.4e-06	0.002428	0.006610
20D	0.043082	-3.6e-05	-2.3e-05	-8.9e-06	0.008918	0.024277

Nodo 175

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.08363	3.12e-05	-6.0e-04	0.	-0.02676	0.012051
2S	-0.03884	1.47e-06	-5.3e-05	0.	-0.01240	0.005608
1D	0.182113	1.02e-04	1.09e-04	0.	0.003192	-0.04311
2D	0.183141	1.39e-04	1.13e-04	0.	-0.00324	-0.04391
3D	0.225862	1.27e-04	1.36e-04	0.	0.003967	-0.05350
4D	0.227139	1.73e-04	1.41e-04	0.	-0.00403	-0.05449
5D	-0.00788	3.52e-04	2.39e-05	0.	0.003317	0.003847
6D	-0.00842	3.66e-04	2.25e-05	0.	0.003661	0.003793
7D	-0.00978	4.40e-04	2.98e-05	0.	0.004121	0.004784
8D	-0.01045	4.57e-04	2.81e-05	0.	0.004549	0.004718
9D	-0.01458	-6.2e-06	-5.2e-06	0.	-0.00309	0.003147
10D	-0.02046	-8.7e-06	-7.3e-06	0.	-0.00433	0.004414
11D	0.156104	1.04e-04	1.12e-04	0.	0.003054	-0.03791
12D	0.157027	1.45e-04	1.17e-04	0.	-0.00314	-0.03856
13D	0.467309	2.67e-04	2.84e-04	0.	0.008274	-0.11087
14D	0.469959	3.64e-04	2.96e-04	0.	-0.00841	-0.11292
15D	-0.00717	4.13e-04	2.70e-05	0.	0.003120	0.003804
16D	-0.00766	4.28e-04	2.54e-05	0.	0.003444	0.003778
17D	-0.02032	9.34e-04	6.30e-05	0.	0.005886	0.010006
18D	-0.02172	9.70e-04	5.95e-05	0.	0.009477	0.009873
19D	-0.01365	-6.0e-06	-4.9e-06	0.	-0.00291	0.002949
20D	-0.05014	-2.2e-05	-1.8e-05	0.	-0.01068	0.010832

11D	0.139374	-3.5e-04	-1.1e-04	0.	-0.00385	-0.04498
12D	0.138303	-3.9e-04	-1.1e-04	0.	0.004275	-0.04497
13D	0.418272	-8.8e-04	-2.8e-04	0.	-0.00973	-0.13197
14D	0.415145	-9.8e-04	-2.9e-04	0.	0.010779	-0.13192
15D	0.008911	4.39e-04	2.66e-05	0.	-0.00325	-0.01160
16D	0.008764	4.08e-04	2.69e-05	0.	-0.00292	-0.01186
17D	0.024980	9.95e-04	6.20e-05	0.	-0.00896	-0.03173
18D	0.024598	9.25e-04	6.24e-05	0.	-0.00807	-0.03245
19D	0.013577	9.56e-06	-5.9e-06	0.	0.002890	0.005662
20D	0.049867	-3.5e-05	-2.2e-05	0.	0.010615	0.020798

Nodo 177

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.08657	3.88e-05	-6.1e-04	0.	-0.02734	0.001185
2S	-0.04022	3.70e-06	-5.4e-05	0.	-0.01274	5.53e-04
1D	0.192358	1.02e-04	1.07e-04	0.	0.003925	-0.00696
2D	0.193755	1.39e-04	1.11e-04	0.	0.003938	-0.00758
3D	0.238571	1.27e-04	1.34e-04	0.	0.004877	-0.00865
4D	0.240304	1.73e-04	1.39e-04	0.	0.004894	-0.00941
5D	-0.00773	3.52e-04	1.60e-05	0.	0.003365	-0.00420
6D	-0.00828	3.66e-04	1.50e-05	0.	0.003744	-0.00424
7D	-0.00960	4.40e-04	-2.0e-05	0.	0.004181	-0.00523
8D	-0.01028	4.57e-04	1.86e-05	0.	0.004653	-0.00528
9D	-0.01531	-6.1e-06	-5.1e-06	0.	-0.00325	-8.7e-04
10D	-0.02148	-8.5e-06	-7.1e-06	0.	-0.00457	-0.00122
11D	0.164947	1.04e-04	1.11e-04	0.	0.003742	-0.00642
12D	0.166185	1.45e-04	1.15e-04	0.	0.003761	-0.00693
13D	0.493615	2.67e-04	2.80e-04	0.	0.010169	-0.01799
14D	0.497210	3.64e-04	2.91e-04	0.	0.010207	-0.01955
15D	-0.00700	4.13e-04	-1.7e-05	0.	0.003180	-0.00428
16D	-0.00750	4.28e-04	-1.6e-05	0.	0.003535	-0.00436
17D	-0.01993	9.34e-04	-4.2e-05	0.	0.008715	-0.01096
18D	-0.02134	9.70e-04	3.92e-05	0.	0.009696	-0.01107
19D	-0.01433	-5.9e-06	-4.8e-06	0.	-0.00307	-8.1e-04
20D	-0.05265	-2.2e-05	-1.8e-05	0.	-0.01129	-0.00299

Nodo 178

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.085002	-6.6e-05	-6.4e-04	0.	0.026609	-0.00446
2S	0.039519	-2.8e-05	-6.0e-05	0.	0.012386	-0.00203
1D	0.177922	-3.3e-04	-7.8e-05	0.	-0.00387	-0.02509
2D	0.176728	-3.7e-04	-7.9e-05	0.	0.004405	-0.02549
3D	0.220655	-4.2e-04	-9.7e-05	0.	-0.00481	-0.03114
4D	0.219174	-4.6e-04	-9.8e-05	0.	0.005481	-0.03164
5D	-0.00752	3.74e-04	1.36e-05	0.	-0.00356	-0.01249
6D	-0.00743	3.48e-04	1.42e-05	0.	-0.00315	-0.01272
7D	-0.00934	4.67e-04	1.70e-05	0.	-0.00442	-0.01551
8D	-0.00923	4.35e-04	1.77e-05	0.	-0.00392	-0.01581
9D	0.015884	-9.7e-06	-5.9e-06	0.	0.003270	0.003056
10D	0.022282	-1.4e-05	-8.3e-06	0.	0.004587	0.004286
11D	0.152167	-3.5e-04	-8.1e-05	0.	-0.00387	-0.02263
12D	0.151106	-3.9e-04	-8.2e-05	0.	0.004448	-0.02302
13D	0.456461	-8.7e-04	-2.0e-04	0.	-0.01007	-0.06467
14D	0.453387	-9.8e-04	-2.1e-04	0.	0.011482	-0.06572
15D	-0.00697	4.38e-04	1.48e-05	0.	-0.00338	-0.01175
16D	-0.00688	4.07e-04	1.58e-05	0.	-0.00298	-0.01198
17D	-0.01943	9.92e-04	3.58e-05	0.	-0.00921	-0.03232
18D	-0.01921	9.23e-04	3.75e-05	0.	-0.00816	-0.03294
19D	0.014869	9.31e-06	-5.6e-06	0.	0.003098	0.002863
20D	0.054616	3.42e-05	-2.0e-05	0.	0.011378	0.010514

Nodo 179

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.08475	4.67e-05	-6.1e-04	0.	-0.02658	-0.00941
2S	-0.03936	5.97e-06	-5.3e-05	0.	-0.01232	-0.00433
1D	0.186953	1.02e-04	1.11e-04	0.	-0.00328	0.031270
2D	0.188619	1.39e-04	1.14e-04	0.	-0.00347	0.030739
3D	0.231867	1.28e-04	1.38e-04	0.	-0.00408	0.038796
4D	0.233935	1.74e-04	1.42e-04	0.	-0.00432	0.038136
5D	-0.00696	3.53e-04	-1.6e-05	0.	0.003269	-0.00504
6D	-0.00747	3.66e-04	-1.6e-05	0.	0.003652	-0.00507
7D	-0.00864	4.40e-04	-2.0e-05	0.	0.004062	-0.00628
8D	-0.00927	4.57e-04	-2.0e-05	0.	0.004538	-0.00631
9D	-0.01483	-6.0e-06	-4.9e-06	0.	-0.00303	-0.00267
10D	-0.02080	-8.4e-06	-6.9e-06	0.	-0.00424	-0.00375
11D	0.160294	1.04e-04	1.14e-04	0.	-0.00320	0.027357
12D	0.161764	1.46e-04	1.18e-04	0.	0.003396	0.026867
13D	0.479740	2.67e-04	2.89e-04	0.	-0.00852	0.080381
14D	0.484028	3.65e-04	2.98e-04	0.	-0.00902	0.079009
15D	-0.00627	4.13e-04	-1.7e-05	0.	0.003081	-0.00510
16D	-0.00673	4.28e-04	-1.7e-05	0.	0.003444	-0.00513
17D	-0.01795	9.35e-04	-4.2e-05	0.	0.008465	-0.01315
18D	-0.01925	9.71e-04	-4.1e-05	0.	0.009456	-0.01322
19D	-0.01388	-5.9e-06	-4.6e-06	0.	-0.00285	-0.00251
20D	-0.05098	-2.2e-05	-1.7e-05	0.	-0.01046	-0.00920

Nodo 180

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.084999	-6.0e-05	-6.3e-04	0.	0.025959	0.004478
2S	0.039490	-2.6e-05	-5.8e-05	0.	0.012053	0.002162

1D	0.180462	-3.3e-04	-5.0e-05	0.	0.003109	0.011387
2D	0.179428	-3.7e-04	-5.0e-05	0.	0.003378	0.011178
3D	0.223808	-4.1e-04	-6.3e-05	0.	0.003867	0.014135
4D	0.222524	-4.6e-04	-6.2e-05	0.	0.004200	0.013879
5D	-0.00685	3.73e-04	9.63e-06	0.	-0.00348	0.011629
6D	-0.00693	3.47e-04	9.75e-06	0.	-0.00307	0.011814
7D	-0.00850	4.66e-04	1.20e-05	0.	-0.00432	0.014448
8D	-0.00860	4.34e-04	1.22e-05	0.	-0.00381	0.014679
9D	0.016005	-9.5e-06	-5.5e-06	0.	0.003050	-0.00194
10D	0.022452	-1.3e-05	-7.8e-06	0.	0.004278	-0.00273
11D	0.154406	-3.4e-04	-5.3e-05	0.	0.003078	0.010277
12D	0.153483	-3.9e-04	-5.3e-05	0.	0.003333	0.010196
13D	0.462996	-8.7e-04	-1.3e-04	0.	0.008087	0.029349
14D	0.460332	-9.7e-04	-1.3e-04	0.	0.008783	0.028840
15D	-0.00639	4.37e-04	-1.0e-05	0.	-0.00330	0.010935
16D	-0.00648	4.06e-04	1.06e-05	0.	-0.00290	0.011103
17D	-0.01771	9.90e-04	2.52e-05	0.	-0.00901	0.030099
18D	-0.01792	9.21e-04	2.56e-05	0.	-0.00794	0.030578
19D	0.014983	9.09e-06	-5.2e-06	0.	0.002878	-0.00183
20D	0.055032	3.34e-05	-1.9e-05	0.	0.010572	-0.00672

Nodo 181

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.07825	5.52e-05	-6.1e-04	-1.3e-05	-0.02461	-0.01976
2S	-0.03636	8.27e-06	-5.2e-05	-1.2e-06	-0.01144	-0.00914
1D	0.171018	1.03e-04	1.19e-04	-7.1e-06	0.003240	0.045808
2D	0.172828	1.40e-04	1.22e-04	-1.4e-05	0.003474	0.045420
3D	0.212102	1.28e-04	1.48e-04	-8.8e-06	0.004029	0.056845
4D	0.214347	1.74e-04	1.51e-04	-1.8e-05	0.004319	0.056362
5D	-0.00609	3.53e-04	-2.4e-05	-7.7e-05	0.002880	-0.00421
6D	-0.00651	3.67e-04	-2.4e-05	-7.9e-05	0.003274	-0.00424
7D	-0.00755	4.41e-04	-3.0e-05	-9.6e-05	0.003578	-0.00523
8D	-0.00809	4.58e-04	-3.0e-05	-9.9e-05	0.004069	-0.00527
9D	-0.01352	-6.0e-06	-4.6e-06	1.46e-06	-0.00253	-0.00357
10D	-0.01896	-8.4e-06	-6.5e-06	2.05e-06	-0.00355	-0.00501
11D	0.146571	1.04e-04	1.22e-04	-7.4e-06	0.003148	0.040526
12D	0.148161	1.46e-04	1.25e-04	-1.6e-05	0.003382	0.040119
13D	0.438834	2.68e-04	3.10e-04	-1.8e-05	0.008412	0.117869
14D	0.443488	3.66e-04	3.18e-04	-3.8e-05	0.009020	0.116855
15D	-0.00547	4.14e-04	-2.7e-05	-9.0e-05	0.002724	-0.00408
16D	-0.00586	4.29e-04	-2.7e-05	-9.2e-05	0.003107	-0.00413
17D	-0.01568	9.37e-04	-6.3e-05	-2.0e-04	0.007459	-0.01092
18D	-0.01679	9.73e-04	-6.4e-05	-2.1e-04	0.008483	-0.01102
19D	-0.01265	-5.8e-06	-4.4e-06	1.40e-06	-0.00238	-0.00334
20D	-0.04647	-2.1e-05	-1.6e-05	5.15e-06	-0.00874	-0.01228

Nodo 182

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.081221	-5.3e-05	-6.3e-04	1.44e-05	0.024480	0.012494
2S	0.037699	-2.4e-05	-5.6e-05	6.61e-06	0.011367	0.005879
1D	0.174543	-3.3e-04	-2.7e-05	1.06e-04	-0.00364	0.020618
2D	0.173731	-3.7e-04	-2.5e-05	1.16e-04	-0.00375	0.019977
3D	0.216467	-4.1e-04	-3.4e-05	1.32e-04	-0.00453	0.025588
4D	0.215459	-4.6e-04	-3.1e-05	1.44e-04	-0.00467	0.024794
5D	0.007591	3.73e-04	-1.7e-05	-8.2e-05	-0.00324	0.010368
6D	0.007764	3.47e-04	-1.6e-05	-7.6e-05	-0.00282	0.010631
7D	0.009430	4.66e-04	-2.1e-05	-1.0e-04	-0.00402	0.012881
8D	0.009645	4.33e-04	-1.9e-05	-9.5e-05	-0.00351	0.013207
9D	0.015139	9.28e-06	-5.1e-06	-2.3e-06	0.002552	-0.00371
10D	0.021237	1.30e-05	-7.2e-06	-3.3e-06	0.003579	-0.00521
11D	0.149336	-3.4e-04	-2.9e-05	1.09e-04	-0.00369	0.018327
12D	0.148608	-3.9e-04	-2.7e-05	1.20e-04	-0.00375	0.017802
13D	0.447808	-8.7e-04	-7.1e-05	2.77e-04	-0.00950	0.053075
14D	0.445717	-9.7e-04	-6.6e-05	3.02e-04	-0.00977	0.051436
15D	0.007074	4.36e-04	-1.9e-05	-9.6e-05	-0.00308	0.009709
16D	0.007254	4.06e-04	-1.8e-05	-8.9e-05	-0.00268	0.009943
17D	0.019632	9.89e-04	-4.4e-05	-2.2e-04	-0.00839	0.026825
18D	0.020083	9.20e-04	-4.1e-05	-2.0e-04	-0.00731	0.027501
19D	0.014172	8.90e-06	-4.8e-06	-2.2e-06	0.002398	-0.00348
20D	0.052053	3.27e-05	-1.8e-05	-8.3e-06	0.008808	-0.01279

16D	-0.00515	4.30e-04	-4.1e-05	0.	-0.00306	-0.00519
17D	-0.01387	9.38e-04	-9.4e-05	0.	0.007230	-0.01298
18D	-0.01479	9.75e-04	-9.5e-05	0.	0.008293	-0.01313
19D	-0.01108	-5.8e-06	-4.0e-06	0.	-0.00210	-0.00395
20D	-0.04071	-2.1e-05	-1.5e-05	0.	-0.00773	-0.01451

Nodo 184

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.074155	-4.7e-05	-6.2e-04	0.	0.021886	0.019259
2S	0.034382	-2.3e-05	-5.4e-05	0.	0.010159	0.009031
1D	0.165202	-3.3e-04	1.28e-05	0.	-0.00454	0.030906
2D	0.164588	-3.7e-04	1.12e-05	0.	-0.00450	0.030275
3D	0.204881	-4.1e-04	1.60e-05	0.	-0.00565	0.038365
4D	0.204119	-4.6e-04	1.40e-05	0.	-0.00561	0.037582
5D	-0.00867	3.72e-04	-2.8e-05	0.	-0.00322	0.010676
6D	-0.00884	3.46e-04	-2.6e-05	0.	-0.00276	0.010928
7D	-0.01076	4.65e-04	-3.5e-05	0.	-0.00400	0.013264
8D	-0.01098	4.32e-04	-3.2e-05	0.	-0.00343	0.013577
9D	0.013853	9.10e-06	-4.6e-06	0.	0.002313	-0.00519
10D	0.019433	1.28e-05	-6.5e-06	0.	0.003244	-0.00728
11D	0.141295	-3.4e-04	1.34e-05	0.	-0.00478	0.027829
12D	0.140741	-3.9e-04	1.16e-05	0.	-0.00470	0.027269
13D	0.423831	-8.6e-04	3.35e-05	0.	-0.01189	0.079654
14D	0.422248	-9.7e-04	2.93e-05	0.	-0.01178	0.078030
15D	-0.00797	4.35e-04	-3.3e-05	0.	-0.00311	0.010024
16D	-0.00815	4.05e-04	-3.0e-05	0.	-0.00266	0.010255
17D	-0.02238	9.87e-04	-7.5e-05	0.	-0.00836	0.027631
18D	-0.02283	9.18e-04	-6.9e-05	0.	-0.00715	0.028282
19D	0.012968	8.74e-06	-4.3e-06	0.	0.002180	-0.00486
20D	0.047633	3.21e-05	-1.6e-05	0.	0.008006	-0.01784

Nodo 185

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.05325	7.27e-05	-6.0e-04	0.	-0.01656	-0.03449
2S	-0.02478	1.28e-05	-4.8e-05	0.	-0.00777	-0.01600
1D	0.125032	1.03e-04	1.52e-04	0.	0.004384	0.071221
2D	0.126672	1.40e-04	1.54e-04	0.	0.003843	0.071790
3D	0.155073	1.28e-04	1.89e-04	0.	0.005459	0.088339
4D	0.157107	1.74e-04	1.92e-04	0.	0.004782	0.089044
5D	-0.00496	3.55e-04	-4.8e-05	0.	-0.00236	-0.00427
6D	-0.00522	3.69e-04	-4.9e-05	0.	-0.00279	-0.00442
7D	-0.00616	4.43e-04	-6.1e-05	0.	-0.00294	-0.00531
8D	-0.00649	4.61e-04	-6.1e-05	0.	-0.00347	-0.00550
9D	-0.00967	-6.0e-06	-3.9e-06	0.	-0.00180	-0.00568
10D	-0.01357	-8.4e-06	-5.5e-06	0.	-0.00253	-0.00797
11D	0.107322	1.04e-04	1.55e-04	0.	0.004579	0.061360
12D	0.108742	1.46e-04	1.58e-04	0.	0.003912	0.061852
13D	0.320876	2.67e-04	3.96e-04	0.	0.011470	0.182835
14D	0.325087	3.66e-04	4.03e-04	0.	0.010025	0.184296
15D	-0.00452	4.16e-04	-5.6e-05	0.	-0.00229	-0.00427
16D	-0.00477	4.32e-04	-5.7e-05	0.	-0.00270	-0.00443
17D	-0.01279	9.42e-04	-1.3e-04	0.	-0.00614	-0.01112
18D	-0.01348	9.78e-04	-1.3e-04	0.	-0.00724	-0.01152
19D	-0.00906	-5.8e-06	-3.7e-06	0.	-0.00170	-0.00532
20D	-0.03327	-2.1e-05	-1.4e-05	0.	-0.00625	-0.01955

Nodo 186

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.064415	-4.1e-05	-6.0e-04	0.	0.019129	0.024505
2S	0.029810	-2.1e-05	-5.0e-05	0.	0.008879	0.011510
1D	0.149331	-3.3e-04	2.29e-05	0.	-0.00462	0.052547
2D	0.148876	-3.7e-04	2.61e-05	0.	-0.00437	0.052078
3D	0.185199	-4.1e-04	2.85e-05	0.	-0.00575	0.065193
4D	0.184633	-4.6e-04	3.25e-05	0.	-0.00544	0.064611
5D	-0.00980	3.72e-04	-4.1e-05	0.	0.002989	0.011434
6D	-0.00993	3.46e-04	-3.8e-05	0.	-0.00253	0.011676
7D	-0.01217	4.65e-04	-5.2e-05	0.	0.003716	0.014212
8D	-0.01233	4.32e-04	-4.7e-05	0.	-0.00315	0.014511
9D	0.012177	8.96e-06	-4.1e-06	0.	0.001965	-0.00658
10D	0.017082	1.26e-05	-5.7e-06	0.	0.002757	-0.00923
11D	0.127729	-3.4e-04	2.21e-05	0.	-0.00478	0.045929
12D	0.127308	-3.9e-04	2.61e-05	0.	-0.00443	0.045525
13D	0.383117	-8.6e-04	5.95e-05	0.	-0.01208	0.135066
14D	0.381939	-9.7e-04	6.81e-05	0.	-0.01139	0.133861
15D	-0.00891	4.35e-04	-4.8e-05	0.	0.002913	0.010930
16D	-0.00903	4.05e-04	-4.4e-05	0.	-0.00247	0.011156
17D	-0.02529	9.87e-04	-1.1e-04	0.	0.007764	0.029647
18D	-0.02562	9.18e-04	-1.0e-04	0.	-0.00658	0.030271
19D	0.011399	8.61e-06	-3.9e-06	0.	0.001863	-0.00616
20D	0.041870	3.16e-05	-1.4e-05	0.	0.006844	-0.02263

Nodo 187

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.03743	8.21e-05	-5.9e-04	0.	-0.01266	-0.03660
2S	-0.01744	1.45e-05	-4.5e-05	0.	-0.00588	-0.01701
1D	0.091456	1.02e-04	1.76e-04	0.	0.003133	0.083877
2D	0.092740	1.39e-04	1.78e-04	0.	0.002937	0.084778
3D	0.113434	1.26e-04	2.19e-04	0.	0.003900	0.104033
4D	0.115027	1.73e-04	2.22e-04	0.	0.003654	0.105149
5D	0.004278	3.57e-04	-6.3e-05	0.	-0.00183	-0.00419

6D	0.004439	3.71e-04	-6.4e-05	0.	-0.00219	-0.00438
7D	0.005314	4.45e-04	-7.9e-05	0.	-0.00227	-0.00521
8D	0.005514	4.63e-04	-8.0e-05	0.	-0.00272	-0.00545
9D	-0.00695	-6.0e-06	-3.6e-06	0.	-0.00129	-0.00662
10D	-0.00976	-8.4e-06	-5.1e-06	0.	-0.00181	-0.00929
11D	0.078677	1.03e-04	1.79e-04	0.	0.003213	0.072116
12D	0.079789	1.45e-04	1.81e-04	0.	0.002958	0.072851
13D	0.234754	2.65e-04	4.58e-04	0.	0.008181	0.215286
14D	0.238051	3.64e-04	4.65e-04	0.	0.007653	0.217588
15D	0.003991	4.18e-04	-7.3e-05	0.	-0.00177	-0.00420
16D	0.004144	4.33e-04	-7.4e-05	0.	-0.00213	-0.00437
17D	0.011062	9.46e-04	-1.7e-04	0.	-0.00474	-0.01090
18D	0.011480	9.82e-04	-1.7e-04	0.	-0.00568	-0.01140
19D	-0.00651	-5.9e-06	-3.5e-06	0.	-0.00122	-0.00620
20D	-0.02391	-2.2e-05	-1.3e-05	0.	-0.00447	-0.02277

Nodo 188

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.053130	-3.5e-05	-5.9e-04	0.	0.014677	0.026204
2S	0.024509	-2.0e-05	-4.7e-05	0.	0.006766	0.012313
1D	0.124329	-3.3e-04	4.12e-05	0.	-0.00387	0.069777
2D	0.124013	-3.7e-04	4.70e-05	0.	0.003626	0.069439
3D	0.154194	-4.1e-04	5.12e-05	0.	-0.00482	0.086549
4D	0.153802	-4.6e-04	5.85e-05	0.	0.004513	0.086130
5D	-0.01107	3.73e-04	-5.6e-05	0.	0.002341	0.011047
6D	-0.01116	3.47e-04	-5.2e-05	0.	0.001972	0.011316
7D	-0.01374	4.65e-04	-7.0e-05	0.	0.002910	0.013733
8D	-0.01385	4.33e-04	-6.5e-05	0.	0.002452	0.014068
9D	0.010122	8.85e-06	-3.5e-06	0.	0.001418	0.001603
10D	0.014199	1.24e-05	-4.9e-06	0.	0.001988	0.009837
11D	0.106466	-3.4e-04	4.10e-05	0.	-0.00404	0.060163
12D	0.106162	-3.9e-04	4.78e-05	0.	0.003711	0.059892
13D	0.319004	-8.6e-04	1.07e-04	0.	-0.01013	0.179140
14D	0.318185	-9.6e-04	1.23e-04	0.	0.009465	0.178277
15D	-0.01010	4.36e-04	-6.6e-05	0.	-0.00229	0.010705
16D	-0.01018	4.06e-04	-6.1e-05	0.	0.001920	0.010966
17D	-0.02857	9.88e-04	-1.5e-04	0.	0.006082	0.028681
18D	-0.02880	9.19e-04	-1.4e-04	0.	0.005122	0.029380
19D	0.009476	8.51e-06	-3.4e-06	0.	0.001341	0.006567
20D	0.034805	3.13e-05	-1.2e-05	0.	0.004927	0.024119

Nodo 189

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02219	9.21e-05	-5.8e-04	0.	-0.00673	-0.03185
2S	-0.01036	1.62e-05	-4.3e-05	0.	-0.00316	-0.01479
1D	0.055508	9.97e-05	2.05e-04	0.	0.005566	0.079952
2D	0.056315	1.37e-04	2.08e-04	0.	-8.3e-06	0.00197
3D	0.068852	1.24e-04	2.55e-04	0.	6.91e-06	0.009166
4D	0.069853	1.71e-04	2.58e-04	0.	-1.0e-05	0.00245
5D	0.003163	3.59e-04	-8.0e-05	0.	-7.7e-05	-0.00106
6D	0.003236	3.73e-04	-8.1e-05	0.	-8.0e-05	-0.00127
7D	0.003931	4.48e-04	-1.0e-04	0.	-9.6e-05	-0.00132
8D	0.004022	4.66e-04	-1.0e-04	0.	-9.9e-05	-0.00158
9D	-0.00412	-6.0e-06	-3.5e-06	0.	1.48e-06	-6.6e-04
10D	-0.00577	-8.4e-06	-5.0e-06	0.	2.08e-06	-9.2e-04
11D	0.047924	1.01e-04	2.08e-04	0.	-5.5e-06	0.00199
12D	0.048619	1.44e-04	2.10e-04	0.	-8.7e-06	-0.00204
13D	0.142525	2.60e-04	5.35e-04	0.	1.45e-05	-0.00500
14D	0.144597	3.60e-04	5.41e-04	0.	-2.2e-05	-0.00515
15D	0.003026	4.21e-04	-9.3e-05	0.	-9.0e-05	-0.00105
16D	0.003095	4.36e-04	-9.4e-05	0.	-9.3e-05	-0.00126
17D	0.008200	9.52e-04	-2.1e-04	0.	-2.0e-04	-0.00277
18D	0.008390	9.88e-04	-2.2e-04	0.	-2.1e-04	-0.00331
19D	-0.00385	-5.9e-06	-3.5e-06	0.	1.43e-06	-6.2e-04
20D	-0.01415	-2.2e-05	-1.3e-05	0.	5.24e-06	-0.00227

Nodo 190

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.041462	-2.7e-05	-5.7e-04	2.23e-05	0.011682	0.026224
2S	0.019042	-1.9e-05	-4.3e-05	6.76e-06	0.005351	0.012253
1D	0.095259	-3.3e-04	6.09e-05	9.92e-05	-0.00502	0.069272
2D	0.095063	-3.7e-04	6.91e-05	1.09e-04	0.004877	0.069033
3D	0.118148	-4.1e-04	7.58e-05	1.24e-04	-0.00625	0.085916
4D	0.117903	-4.6e-04	8.60e-05	1.36e-04	0.006075	0.085620
5D	-0.01224	3.74e-04	-7.3e-05	-8.5e-05	0.001526	0.009462
6D	-0.01233	3.48e-04	-6.8e-05	-7.9e-05	0.001305	0.009668
7D	-0.01520	4.67e-04	-9.1e-05	-1.1e-04	0.001898	0.011764
8D	-0.01531	4.34e-04	-8.4e-05	-9.8e-05	0.001623	0.012020
9D	0.008093	8.78e-06	-3.1e-06	-2.3e-06	9.28e-04	0.006089
10D	0.011352	1.23e-05	-3.4e-06	-3.3e-06	0.001302	0.008542
11D	0.081820	-3.4e-04	6.16e-05	1.02e-04	-0.00537	0.059521
12D	0.081619	-3.9e-04	7.10e-05	1.14e-04	0.005178	0.059315
13D	0.244481	-8.6e-04	1.59e-04	2.59e-04	-0.01316	0.177787
14D	0.243968	-9.7e-04	1.80e-04	2.86e-04	0.012783	0.177174
15D	-0.01134	4.37e-04	-8.6e-05	-1.0e-04	0.001504	0.009193
16D	-0.01142	4.07e-04	-7.9e-05	-9.2e-05	0.001286	0.009396
17D	-0.03163	9.91e-04	-1.9e-04	-2.3e-04	0.003969	0.024573
18D	-0.03187	9.22e-04	-1.8e-04	-2.1e-04	0.003394	0.025107
19D	0.007576	8.45e-06	-3.0e-06	-2.2e-06	8.79e-04	0.005701
20D	0.027826	3.10e-05	-1.1e-05	-8.3e-06	0.003228	0.020941

Nodo 191						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00913	1.01e-04	-5.8e-04	0.	-0.00681	-0.02685
2S	-0.00429	1.71e-05	-4.2e-05	0.	-0.00322	-0.01250
1D	0.023581	9.61e-05	2.43e-04	0.	-0.00144	0.064696
2D	0.023925	1.34e-04	2.46e-04	0.	-0.00137	0.065652
3D	0.029253	1.20e-04	3.03e-04	0.	-0.00180	0.080251
4D	0.029679	1.67e-04	3.06e-04	0.	-0.00170	0.081437
5D	0.001769	3.61e-04	-1.0e-04	0.	0.001003	0.004316
6D	0.001811	3.75e-04	-1.0e-04	0.	0.001120	0.004365
7D	0.002201	4.51e-04	-1.3e-04	0.	0.001249	0.005367
8D	0.002252	4.68e-04	-1.3e-04	0.	0.001395	0.005428
9D	-0.00166	-6.0e-06	-3.7e-06	0.	-4.2e-04	-0.00488
10D	-0.00233	-8.5e-06	-5.2e-06	0.	-5.8e-04	-0.00685
11D	0.020486	9.76e-05	2.46e-04	0.	-0.00156	0.055980
12D	0.020781	1.40e-04	2.49e-04	0.	-0.00147	0.056792
13D	0.060581	2.51e-04	6.34e-04	0.	-0.00379	0.166147
14D	0.061461	3.51e-04	6.41e-04	0.	-0.00359	0.168599
15D	0.001773	4.25e-04	-1.2e-04	0.	0.001075	0.004255
16D	0.001819	4.38e-04	-1.2e-04	0.	0.001204	0.004293
17D	0.004607	9.57e-04	-2.7e-04	0.	0.002630	0.011222
18D	0.004717	9.93e-04	-2.7e-04	0.	0.002939	0.011346
19D	-0.00155	-5.9e-06	-3.7e-06	0.	-3.9e-04	-0.00457
20D	-0.00571	-2.2e-05	-1.3e-05	0.	-0.00145	-0.01680

Nodo 192						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.029884	-1.9e-05	-5.5e-04	0.	0.007340	0.025804
2S	0.013642	-1.7e-05	-3.8e-05	0.	0.003342	0.012012
1D	0.067633	-3.3e-04	8.31e-05	0.	0.006333	0.061932
2D	0.067518	-3.7e-04	9.39e-05	0.	0.006240	0.061805
3D	0.083892	-4.1e-04	1.03e-04	0.	0.007894	0.076812
4D	0.083750	-4.6e-04	1.17e-04	0.	0.007778	0.076654
5D	-0.01251	3.75e-04	-9.4e-05	0.	0.001556	0.006950
6D	-0.01261	3.49e-04	-8.7e-05	0.	0.001468	0.007039
7D	-0.01555	4.68e-04	-1.2e-04	0.	0.001936	0.008637
8D	-0.01567	4.35e-04	-1.1e-04	0.	0.001827	0.008747
9D	0.006256	8.74e-06	-2.8e-06	0.	6.06e-04	0.005019
10D	0.008776	1.23e-05	-3.9e-06	0.	8.49e-04	0.007041
11D	0.058435	-3.4e-04	8.49e-05	0.	0.006896	0.053147
12D	0.058311	-3.9e-04	9.71e-05	0.	0.006776	0.053032
13D	0.173669	-8.6e-04	2.17e-04	0.	0.016651	0.158933
14D	0.173367	-9.7e-04	2.45e-04	0.	0.016401	0.158605
15D	-0.01178	4.38e-04	-1.1e-04	0.	-0.00158	0.006616
16D	-0.01187	4.08e-04	-1.0e-04	0.	0.001487	0.006700
17D	-0.03239	9.94e-04	-2.5e-04	0.	-0.00406	0.018011
18D	-0.03266	9.24e-04	-2.3e-04	0.	0.003829	0.018240
19D	0.005857	8.41e-06	-2.8e-06	0.	5.92e-04	0.004699
20D	0.021512	3.09e-05	-1.0e-05	0.	0.002175	0.017260

Nodo 193						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-3.4e-06	1.08e-04	-5.8e-04	4.07e-05	-5.8e-04	-0.01414
2S	-4.1e-05	1.71e-05	-4.2e-05	9.85e-06	-2.8e-04	-0.00657
1D	0.002408	9.18e-05	2.87e-04	-5.0e-06	-2.8e-04	0.035209
2D	0.002533	1.30e-04	2.90e-04	-7.5e-06	-3.0e-04	0.035546
3D	0.002996	1.14e-04	3.57e-04	-6.2e-06	-3.5e-04	0.043686
4D	0.003152	1.62e-04	3.60e-04	-9.3e-06	-3.7e-04	0.044101
5D	-3.2e-04	3.64e-04	-1.2e-04	-6.5e-05	-2.0e-04	0.005345
6D	3.08e-04	3.77e-04	-1.2e-04	-6.7e-05	-2.0e-04	0.005395
7D	-4.0e-04	4.54e-04	-1.5e-04	-8.1e-05	-2.5e-04	0.006659
8D	3.85e-04	4.71e-04	-1.6e-04	-8.4e-05	-2.5e-04	0.006722
9D	-2.8e-05	-6.0e-06	-4.2e-06	1.99e-06	-2.8e-05	-0.00258
10D	-3.9e-05	-8.5e-06	-5.9e-06	2.80e-06	-4.0e-05	-0.00362
11D	0.002458	9.35e-05	2.90e-04	-5.2e-06	-2.8e-04	0.030911
12D	0.002593	1.37e-04	2.93e-04	-7.9e-06	-3.0e-04	0.031100
13D	0.006282	2.39e-04	7.48e-04	-1.3e-05	-7.4e-04	0.090534
14D	0.006610	3.40e-04	7.55e-04	-2.0e-05	-7.8e-04	0.091374
15D	-3.6e-04	4.26e-04	-1.4e-04	-7.6e-05	-2.3e-04	0.005716
16D	3.45e-04	4.42e-04	-1.5e-04	-7.9e-05	-2.4e-04	0.005769
17D	-8.5e-04	9.64e-04	-3.3e-04	-1.7e-04	-5.2e-04	0.014020
18D	8.13e-04	0.001001	-3.3e-04	-1.8e-04	-5.4e-04	0.014153
19D	-2.8e-05	-5.9e-06	-4.1e-06	1.89e-06	-2.7e-05	-0.00242
20D	-1.0e-04	-2.2e-05	-1.5e-05	6.93e-06	-1.0e-04	-0.00888

Nodo 194						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.67e-05	-0.00346	-6.3e-04	-3.6e-04	0.	0.005778
2S	-3.3e-05	-0.00160	-6.0e-05	-1.7e-04	0.	0.002777
1D	0.002393	0.009667	-6.6e-05	-0.00180	0.	-0.01284
2D	0.002517	0.009716	-7.7e-05	-0.00173	0.	-0.01303
3D	0.002978	0.011996	-8.2e-05	-0.00225	0.	-0.01593
4D	0.003132	0.012056	-9.6e-05	-0.00216	0.	-0.01616
5D	-3.2e-04	0.002159	-6.7e-05	0.001872	0.	-0.00117
6D	3.07e-04	0.002185	-7.2e-05	0.001964	0.	-0.00117
7D	-4.0e-04	0.002691	-8.3e-05	0.002335	0.	-0.00146
8D	3.84e-04	0.002723	-9.0e-05	0.002450	0.	-0.00146
9D	-2.8e-05	-7.0e-04	-4.6e-06	1.09e-04	0.	9.34e-04
10D	-3.9e-05	-9.9e-04	-6.4e-06	1.54e-04	0.	0.001310

11D	0.002442	0.008555	-6.6e-05	-0.00197	0.	-0.01117
12D	0.002577	0.008549	-7.9e-05	-0.00189	0.	-0.01133
13D	0.006243	0.024873	-1.7e-04	-0.00474	0.	-0.03300
14D	0.006569	0.024988	-2.0e-04	-0.00455	0.	-0.03347
15D	-3.6e-04	0.002341	-7.8e-05	0.002114	0.	-0.00125
16D	3.44e-04	0.002370	-8.5e-05	0.002222	0.	-0.00125
17D	-8.5e-04	0.005673	-1.8e-04	0.004941	0.	-0.00307
18D	8.11e-04	0.005742	-1.9e-04	0.005185	0.	-0.00308
19D	-2.7e-05	-6.6e-04	-4.4e-06	1.12e-04	0.	8.75e-04
20D	-1.0e-04	-0.00243	-1.6e-05	4.11e-04	0.	0.003214

Nodo 195						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.02e-05	4.12e-04	-6.7e-04	-4.2e-04	-0.00156	0.002756
2S	-3.5e-05	2.33e-04	-7.3e-05	-1.9e-04	-6.4e-04	0.001265
1D	0.002409	-1.7e-04	-4.5e-04	7.87e-05	-3.8e-04	-0.00886
2D	0.002535	-1.6e-04	-4.7e-04	7.94e-05	-4.0e-04	-0.00866
3D	0.002998	-2.1e-04	-5.6e-04	9.79e-05	-4.7e-04	-0.01101
4D	0.003155	-2.0e-04	-5.9e-04	9.87e-05	-5.0e-04	-0.01076
5D	-3.3e-04	3.76e-04	5.33e-05	-1.2e-04	-2.2e-04	-0.00456
6D	3.11e-04	3.74e-04	4.97e-05	-1.2e-04	-2.3e-04	-0.00463
7D	-4.1e-04	4.69e-04	6.64e-05	-1.5e-04	-2.7e-04	-0.00568
8D	3.88e-04	4.67e-04	6.19e-05	-1.5e-04	-2.9e-04	-0.00577
9D	-2.8e-05	2.77e-05	9.09e-06	-2.2e-05	-6.3e-05	6.53e-04
10D	-3.9e-05	3.88e-05	1.28e-05	-3.1e-05	-8.8e-05	9.17e-04
11D	0.002460	-1.9e-04	-4.5e-04	7.87e-05	-3.5e-04	-0.00821
12D	0.002596	-1.8e-04	-4.8e-04	7.83e-05	-3.7e-04	-0.00789
13D	0.006286	-4.5e-04	-0.00117	2.05e-04	-9.8e-04	-0.02290
14D	0.006617	-4.3e-04	-0.00124	2.06e-04	-0.00103	-0.02235
15D	-3.6e-04	4.37e-04	5.84e-05	-1.4e-04	-2.5e-04	-0.00503
16D	3.48e-04	4.36e-04	5.50e-05	-1.4e-04	-2.7e-04	-0.00511
17D	-8.6e-04	9.95e-04	1.40e-04	-3.2e-04	-5.7e-04	-0.01200
18D	8.20e-04	9.92e-04	1.31e-04	-3.1e-04	-6.1e-04	-0.01218
19D	-2.8e-05	2.69e-05	8.79e-06	-2.1e-05	-6.0e-05	6.18e-04
20D	-1.0e-04	9.89e-05	3.23e-05	-7.7e-05	-2.2e-04	0.002271

Nodo 196						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.019079	-1.1e-05	-5.3e-04	2.95e-05	0.005438	0.022748
2S	0.008637	-1.6e-05	-3.4e-05	7.05e-06	0.002404	0.010476
1D	0.043007	-3.3e-04	1.07e-04	9.74e-05	0.005981	0.053136
2D	0.042949	-3.7e-04	1.21e-04	1.08e-04	0.006049	0.053055
3D	0.053355	-4.1e-04	1.33e-04	1.21e-04	0.007451	0.065906
4D	0.053282	-4.6e-04	1.51e-04	1.34e-04	0.007535	0.065806
5D	-0.01075	3.77e-04	-1.2e-04	-8.6e-05	0.001772	-0.00800
6D	-0.01084	3.51e-04	-1.1e-04	-7.9e-05	0.001754	-0.00804
7D	-0.01336	4.71e-04	-1.5e-04	-1.1e-04	0.002206	-0.00993
8D	-0.01347	4.38e-04	-1.4e-04	-9.9e-05	0.002182	-0.00999
9D	0.004386	8.73e-06	-2.8e-06	-2.4e-06	4.37e-04	0.004666
10D	0.006152	1.22e-05	-3.9e-06	-3.3e-06	6.13e-04	0.006545
11D	0.037498	-3.4e-04	1.10e-04	1.01e-04	0.006383	0.045760
12D	0.037431	-3.9e-04	1.26e-04	1.12e-04	0.006438	0.045678
13D	0.110524	-8.7e-04	2.80e-04	2.54e-04	0.015685	0.136403
14D	0.110369	-9.7e-04	3.16e-04	2.81e-04	0.015859	0.136193
15D	-0.01022	4.41e-04	-1.4e-04	-1.0e-04	0.001795	-0.00750
16D	-0.01031	4.11e-04	-1.3e-04	-9.3e-05	0.001773	-0.00752
17D	-0.02785	9.99e-04	-3.1e-04	-2.3e-04	0.004623	-0.02069
18D	-0.02808	9.30e-04	-2.9e-04	-2.1e-04	0.004573	-0.02080
19D	0.004106	8.41e-06	-2.8e-06	-2.3e-06	-4.4e-04	0.004368
20D	0.015082	3.09e-05	-1.0e-05	-8.3e-06	-0.00160	0.016044

Nodo 197						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-6.0e-04	4.10e-04	-6.8e-04	0.	-0.00128	9.43e-05
2S	-3.1e-04	2.28e-04	-7.8e-05	0.	-5.5e-04	-9.4e-06
1D	0.003088	-1.7e-04	-3.9e-04	0.	0.001819	0.002663
2D	0.003211	-1.6e-04	-4.2e-04	0.	0.001877	0.002749
3D	0.003836	-2.1e-04	-4.9e-04	0.	0.002262	0.003307
4D	0.003990	-2.0e-04	-5.2e-04	0.	0.002335	0.003414
5D	7.96e-04	3.76e-04	7.35e-05	0.	-0.00108	7.79e-04
6D	8.09e-04	3.75e-04	-7.5e-05	0.	-0.00114	7.98e-04
7D	9.92e-04	4.69e-04	9.18e-05	0.	-0.00134	9.71e-04
8D	0.001009	4.68e-04	-9.4e-05	0.	-0.00142	9.94e-04
9D	-1.2e-04	2.70e-05	-9.1e-06	0.	7.92e-05	-1.2e-04
10D	-1.7e-04	3.79e-05	-1.3e-05	0.	1.11e-04	-1.7e-04
11D	0.002902	-1.9e-04	-3.9e-04	0.	0.001807	0.002455
12D	0.003042	-1.8e-04	-4.2e-04	0.	0.001869	0.002552
13D	0.007989	-4.4e-04	-0.00102	0.	0.004732	0.006877
14D	0.008314	-4.2e-04	-0.00108	0.	0.004885	0.007104
15D	8.83e-04	4.38e-04	8.41e-05	0.	-0.00117	8.46e-04
16D	8.97e-04	4.36e-04	-8.7e-05	0.	-0.00125	8.66e-04
17D	0.002097	9.96e-04	1.94e-04	0.	-0.00283	0.002048
18D	0.002132	9.93e-04	-2.0e-04	0.	-0.00299	0.002096
19D	-1.1e-04	2.64e-05	8.76e-06	0.	8.36e-05	-1.1e-04
20D	-4.2e-04	9.68e-05	3.22e-05	0.	3.07e-04	-4.1e-04

1D	0.021290	-3.3e-04	1.36e-04	0.	0.004749	0.046167
2D	0.021278	-3.7e-04	1.53e-04	0.	0.004941	0.046098
3D	0.026418	-4.1e-04	1.70e-04	0.	0.005912	0.057279
4D	0.026402	-4.6e-04	1.91e-04	0.	0.006151	0.057193
5D	-0.00646	-3.79e-04	-1.5e-04	0.	-0.00194	-0.01259
6D	-0.00650	3.53e-04	-1.3e-04	0.	-0.00183	-0.01270
7D	-0.00802	4.73e-04	-1.8e-04	0.	-0.00242	-0.01565
8D	-0.00808	4.40e-04	-1.7e-04	0.	-0.00228	-0.01579
9D	0.002324	8.75e-06	-3.2e-06	0.	3.18e-04	0.004911
10D	0.003260	1.23e-05	-4.5e-06	0.	4.46e-04	0.006889
11D	0.018746	-3.5e-04	1.41e-04	0.	0.004895	0.040403
12D	0.018731	-3.9e-04	1.60e-04	0.	0.005096	0.040323
13D	0.054761	-8.7e-04	3.56e-04	0.	0.012406	0.118683
14D	0.054728	-9.8e-04	4.01e-04	0.	0.012908	0.118499
15D	-0.00618	4.43e-04	-1.7e-04	0.	-0.00202	-0.01201
16D	-0.00622	4.13e-04	-1.6e-04	0.	-0.00188	-0.01211
17D	-0.01674	0.001005	-3.9e-04	0.	-0.00508	-0.03264
18D	-0.01686	9.35e-04	-3.6e-04	0.	-0.00478	-0.03292
19D	0.002176	8.43e-06	-3.2e-06	0.	3.16e-04	0.004598
20D	0.007991	3.09e-05	-1.2e-05	0.	0.001159	0.016887

Nodo 199

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.77e-05	4.21e-04	-6.9e-04	-5.0e-05	1.75e-04	-0.00284
2S	-1.0e-05	2.28e-04	-8.8e-05	-4.5e-05	6.22e-05	-0.00136
1D	0.001216	-1.6e-04	-3.4e-04	1.31e-04	0.002234	0.006628
2D	0.001280	-1.5e-04	-3.7e-04	1.34e-04	0.002367	0.006719
3D	0.001513	-2.0e-04	-4.3e-04	1.63e-04	0.002779	0.008231
4D	0.001593	-1.9e-04	-4.6e-04	1.67e-04	0.002946	0.008344
5D	-1.4e-04	3.76e-04	-1.1e-04	-9.8e-05	-2.5e-04	0.002789
6D	-1.4e-04	3.76e-04	-1.2e-04	-9.5e-05	-2.3e-04	0.002807
7D	-1.7e-04	4.70e-04	-1.4e-04	-1.2e-04	-3.1e-04	0.003479
8D	-1.7e-04	4.69e-04	-1.4e-04	-1.2e-04	-2.9e-04	0.003501
9D	-1.8e-05	2.69e-05	-9.7e-06	-5.2e-06	-2.9e-05	-4.0e-04
10D	-2.5e-05	3.77e-05	-1.4e-05	-7.3e-06	-4.0e-05	-5.6e-04
11D	0.001229	-1.8e-04	-3.5e-04	1.32e-04	0.002268	0.006109
12D	0.001299	-1.7e-04	-3.7e-04	1.35e-04	0.002414	0.006188
13D	0.003169	-4.3e-04	-9.0e-04	3.41e-04	0.005824	0.017115
14D	0.003338	-4.0e-04	-9.6e-04	3.50e-04	0.006175	0.017350
15D	-1.5e-04	4.39e-04	-1.3e-04	-1.1e-04	-2.7e-04	0.003112
16D	-1.5e-04	4.38e-04	-1.3e-04	-1.1e-04	-2.6e-04	0.003126
17D	-3.6e-04	9.98e-04	-3.0e-04	-2.6e-04	-6.6e-04	0.007353
18D	-3.6e-04	9.95e-04	-3.1e-04	-2.5e-04	-6.1e-04	0.007399
19D	-1.8e-05	2.62e-05	-9.4e-06	-5.0e-06	-2.8e-05	-3.8e-04
20D	-6.5e-05	9.61e-05	-3.4e-05	-1.8e-05	-1.0e-04	-0.00141

Nodo 200

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.63e-04	1.06e-05	-5.0e-04	4.53e-05	3.83e-04	0.020130
2S	5.72e-05	-1.4e-05	-2.5e-05	7.43e-06	1.27e-04	0.009229
1D	0.001697	-3.4e-04	1.71e-04	8.93e-05	0.003165	0.044825
2D	0.001792	-3.8e-04	1.92e-04	9.88e-05	0.003371	0.044772
3D	0.002112	-4.2e-04	2.13e-04	1.11e-04	0.003938	0.055625
4D	0.002230	-4.7e-04	2.39e-04	1.23e-04	0.004196	0.055558
5D	-5.6e-04	3.83e-04	-1.8e-04	-7.8e-05	-8.0e-04	-0.01463
6D	-5.7e-04	3.56e-04	-1.6e-04	-7.2e-05	-8.8e-04	-0.01473
7D	-6.9e-04	4.78e-04	-2.2e-04	-9.7e-05	-1.0e-03	-0.01818
8D	-7.0e-04	4.44e-04	-2.1e-04	-8.9e-05	-0.00109	-0.01831
9D	1.16e-04	8.81e-06	-3.9e-06	-2.2e-06	1.68e-04	0.005120
10D	1.63e-04	1.24e-05	-5.4e-06	-3.1e-06	2.35e-04	0.007183
11D	0.001722	-3.5e-04	1.77e-04	9.26e-05	0.003226	0.039647
12D	0.001827	-3.9e-04	2.00e-04	1.03e-04	0.003453	0.039584
13D	0.004425	-8.8e-04	4.46e-04	2.33e-04	0.008256	0.115341
14D	0.004675	-9.9e-04	5.02e-04	2.58e-04	0.008800	0.115200
15D	-5.9e-04	4.47e-04	-2.1e-04	-9.1e-05	-8.4e-04	-0.01403
16D	-6.0e-04	4.17e-04	-1.9e-04	-8.4e-05	-9.4e-04	-0.01412
17D	-0.00146	0.001014	-4.7e-04	-2.1e-04	-0.00239	-0.03794
18D	-0.00148	9.44e-04	-4.4e-04	-1.9e-04	-0.00200	-0.03821
19D	1.10e-04	8.50e-06	-3.9e-06	-2.1e-06	1.59e-04	0.004795
20D	4.04e-04	3.12e-05	-1.4e-05	-7.7e-06	5.84e-04	0.017610

Nodo 201

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.50e-04	-0.01552	-6.0e-04	-3.9e-04	0.	-0.03148
2S	3.94e-05	-0.00702	-6.0e-05	-1.1e-04	0.	-0.01433
1D	0.002300	-0.00584	1.78e-04	-0.00913	0.	0.009262
2D	0.002273	-0.00613	1.84e-04	-0.00916	0.	0.009304
3D	0.002862	-0.00725	2.21e-04	-0.01133	0.	0.011495
4D	0.002828	-0.00761	2.29e-04	-0.01137	0.	0.011549
5D	2.59e-04	0.009361	1.28e-04	0.004345	0.	0.014555
6D	-3.0e-04	0.009362	1.25e-04	0.004302	0.	0.014486
7D	3.23e-04	0.011632	1.60e-04	0.005403	0.	0.018089
8D	-3.8e-04	0.011634	1.56e-04	0.005348	0.	0.018003
9D	-2.9e-05	-0.00339	-5.6e-06	-0.00156	0.	-0.00520
10D	-4.1e-05	-0.00476	-7.9e-06	-0.00219	0.	-0.00730
11D	0.002320	-0.00538	1.78e-04	-0.00805	0.	0.008280
12D	0.002281	-0.00564	1.85e-04	-0.00806	0.	0.008374
13D	0.005994	-0.01509	4.64e-04	-0.02349	0.	0.023854
14D	0.005920	-0.01582	4.79e-04	-0.02356	0.	0.023978
15D	2.84e-04	0.008862	1.50e-04	0.004232	0.	0.013888

16D	-3.4e-04	0.008860	1.46e-04	0.004166	0.	0.013791
17D	6.82e-04	0.024248	3.39e-04	0.011285	0.	0.037728
18D	-8.0e-04	0.024251	3.30e-04	0.011167	0.	0.037543
19D	-2.8e-05	-0.00318	-5.3e-06	-0.00146	0.	-0.00487
20D	-1.0e-04	-0.01166	-2.0e-05	-0.00536	0.	-0.01790

Nodo 202

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.84e-04	-0.04162	-6.4e-04	0.030968	0.	-0.02603
2S	4.86e-05	-0.01890	-6.7e-05	0.014115	0.	-0.01185
1D	0.002240	-0.00829	1.96e-04	-0.00651	0.	0.008690
2D	0.002214	-0.00873	1.94e-04	-0.00616	0.	0.008584
3D	0.002787	-0.01030	2.43e-04	-0.00808	0.	0.010782
4D	0.002754	-0.01085	2.42e-04	-0.00765	0.	0.010651
5D	2.53e-04	0.020731	1.12e-04	0.010417	0.	0.011365
6D	-3.0e-04	0.020729	1.05e-04	0.010372	0.	0.011260
7D	3.16e-04	0.025760	1.40e-04	0.012948	0.	0.014127
8D	-3.7e-04	0.025757	1.31e-04	0.012891	0.	0.013995
9D	-2.9e-05	-0.00753	-5.5e-06	-0.00312	0.	-0.00401
10D	-4.1e-05	-0.01056	-7.7e-06	-0.00438	0.	-0.00563
11D	0.002260	-0.00784	1.96e-04	-0.00607	0.	0.007628
12D	0.002223	-0.00829	1.94e-04	-0.00574	0.	0.007551
13D	0.005838	-0.02146	5.09e-04	-0.01683	0.	0.022345
14D	0.005766	-0.02262	5.05e-04	-0.01593	0.	0.022077
15D	2.77e-04	0.019580	1.31e-04	0.009976	0.	0.010947
16D	-3.3e-04	0.019577	1.23e-04	0.009927	0.	0.010807
17D	6.67e-04	0.053689	2.98e-04	0.027015	0.	0.029485
18D	-7.8e-04	0.053683	2.78e-04	0.026895	0.	0.029203
19D	-2.8e-05	-0.00705	-5.2e-06	-0.00293	0.	-0.00376
20D	-1.0e-04	-0.02588	-1.9e-05	-0.01075	0.	-0.01380

Nodo 203

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.31e-04	4.55e-06	-5.2e-04	6.82e-05	9.63e-05	0.013775
2S	3.55e-05	-9.5e-06	-4.4e-05	4.12e-05	1.02e-05	0.006497
1D	0.002301	1.39e-04	2.54e-04	-6.8e-05	2.19e-04	-0.03755
2D	0.002274	1.83e-04	2.65e-04	-7.2e-05	2.20e-04	-0.03750
3D	0.002863	1.73e-04	3.16e-04	-8.4e-05	2.73e-04	-0.04658
4D	0.002829	2.28e-04	3.30e-04	-9.0e-05	2.74e-04	-0.04652
5D	2.60e-04	4.33e-04	1.45e-04	-8.6e-05	2.85e-05	0.006522
6D	-3.0e-04	4.49e-04	1.42e-04	-8.8e-05	-2.7e-05	0.006570
7D	3.24e-04	5.41e-04	1.81e-04	-1.1e-04	3.55e-05	0.008112
8D	-3.8e-04	5.61e-04	1.77e-04	-1.1e-04	-3.3e-05	0.008171
9D	-2.9e-05	-8.6e-06	-6.1e-06	8.70e-06	-4.8e-06	-0.00333
10D	-4.1e-05	-1.2e-05	-8.5e-06	1.22e-05	-6.7e-06	-0.00467
11D	0.002320	1.41e-04	2.57e-04	-6.1e-05	2.26e-04	-0.03274
12D	0.002282	1.91e-04	2.69e-04	-6.7e-05	2.26e-04	-0.03267
13D	0.005996	3.62e-04	6.62e-04	-1.8e-04	5.73e-04	-0.09649
14D	0.005923	4.79e-04	6.92e-04	-1.9e-04	5.75e-04	-0.09636
15D	2.84e-04	5.08e-04	1.69e-04	-1.0e-04	3.08e-05	0.006475
16D	-3.4e-04	5.26e-04	1.66e-04	-1.0e-04	-2.9e-05	0.006519
17D	6.84e-04	0.001149	3.84e-04	-2.3e-04	7.48e-05	0.016971
18D	-8.0e-04	0.001192	3.76e-04	-2.3e-04	-7.0e-05	0.017093
19D	-2.8e-05	-8.3e-06	-5.8e-06	8.16e-06	-4.5e-06	-0.00312
20D	-1.0e-04	-3.0e-05	-2.1e-05	3.00e-05	-1.7e-05	-0.01146

Nodo 204

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.44e-04	-0.00376	-5.6e-04	0.006056	2.55e-04	-0.02976
2S	3.77e-05	-0.00167	-5.2e-05	0.002825	2.31e-05	-0.01354
1D	0.002300	-0.00740	1.58e-04	-0.01052	3.33e-04	0.008121
2D	0.002272	-0.00748	1.67e-04	-0.01048	3.31e-04	0.008117
3D	0.002861	-0.00919	1.96e-04	-0.01305	4.15e-04	0.010078
4D	0.002827	-0.00928	2.08e-04	-0.01300	4.12e-04	0.010075
5D	2.59e-04	0.004253	1.34e-04	0.001779	4.28e-05	0.012531
6D	-3.0e-04	0.004261	1.33e-04	0.001758	4.49e-05	0.012531
7D	3.23e-04	0.005285	1.67e-04	0.002215	5.33e-05	0.015571
8D	-3.8e-04	0.005295	1.67e-04	0.002188	5.60e-05	0.015571
9D	-2.9e-05	-0.00160	-5.5e-06	8.85e-04	-6.4e-06	-0.00643
10D	-4.1e-05	-0.00224	-7.7e-06	0.001242	-8.9e-06	-0.00649
11D	0.002319	-0.00653	1.58e-04	-0.00919	3.42e-04	0.007207
12D	0.002280	-0.00659	1.69e-04	-0.00914	3.37e-04	0.007246
13D	0.005992	-0.01904	4.11e-04	-0.02703	8.70e-04	0.020903
14D	0.005918	-0.01923	4.36e-04	-0.02693	8.63e-04	0.020905
15D	2.84e-04	0.004039	1.57e-04	0.001861	4.66e-05	0.011836
16D	-3.4e-04	0.004046	1.56e-04	0.001828	5.00e-05	0.011837
17D	6.82e-04	0.011019	3.55e-04	0.004655	1.12e-04	0.032452
18D	-8.0e-04	0.011041	3.54e-04	0.004595	1.18e-04	0.032453
19D	-2.8e-05	-0.00149	-5.2e-06	8.29e-04	-6.1e-06	-0.00433
20D	-1.0e-04	-0.00549	-1.9e-05	0.003045	-2.2e-05	-0.01592

6D	-2.9e-04	0.026771	9.39e-05	0.013262	-6.1e-05	0.012297
7D	3.11e-04	0.033276	1.27e-04	0.016532	7.19e-05	0.015310
8D	-3.6e-04	0.033265	1.17e-04	0.016482	-7.6e-05	0.015281
9D	-2.9e-05	-0.00972	-5.0e-06	-0.00384	-6.3e-06	-0.00441
10D	-4.0e-05	-0.01364	-6.9e-06	-0.00539	-8.8e-06	-0.00619
11D	0.002219	-0.01104	1.93e-04	-0.00603	5.43e-04	0.007919
12D	0.002183	-0.01142	1.86e-04	-0.00575	5.38e-04	0.007882
13D	0.005731	-0.03094	5.02e-04	-0.01631	0.001404	0.023140
14D	0.005661	-0.03182	4.88e-04	-0.01556	0.001396	0.022962
15D	2.72e-04	0.025286	1.19e-04	0.012672	6.29e-05	0.011652
16D	-3.3e-04	0.025279	1.10e-04	0.012636	-6.9e-05	0.011629
17D	6.55e-04	0.069353	2.70e-04	0.034479	1.52e-04	0.031913
18D	-7.7e-04	0.069329	2.49e-04	0.034376	-1.6e-04	0.031851
19D	-2.8e-05	-0.00910	-4.8e-06	-0.00360	-6.1e-06	-0.00413
20D	-1.0e-04	-0.03343	-1.7e-05	-0.01323	-2.2e-05	-0.01518

Nodo 206						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.06e-04	-0.05682	-6.0e-04	0.017317	1.41e-05	0.015527
2S	5.42e-05	-0.02581	-6.0e-05	0.007912	3.65e-06	0.007119
1D	0.002162	0.014367	9.77e-05	0.006094	4.01e-04	0.013079
2D	0.002137	-0.01446	9.21e-05	-0.00576	4.00e-04	0.013104
3D	0.002689	0.017835	1.21e-04	0.007569	4.98e-04	0.016241
4D	0.002658	-0.01795	1.15e-04	-0.00715	4.98e-04	0.016273
5D	2.45e-04	0.028682	9.90e-05	0.012331	-4.3e-05	-0.00351
6D	-2.9e-04	0.028667	9.15e-05	0.012326	-4.3e-05	-0.00351
7D	3.06e-04	0.035639	1.24e-04	0.015324	-5.4e-05	-0.00437
8D	-3.6e-04	0.035620	1.14e-04	0.015318	-5.3e-05	-0.00437
9D	-2.8e-05	-0.01039	-4.9e-06	-0.00372	-4.7e-06	0.001502
10D	-4.0e-05	-0.01458	-6.8e-06	-0.00522	-6.6e-06	0.002107
11D	0.002181	-0.01298	9.71e-05	-0.00565	4.04e-04	0.012024
12D	0.002146	-0.01314	9.06e-05	-0.00532	4.02e-04	0.012053
13D	0.005633	0.037042	2.54e-04	0.015752	0.001044	0.033768
14D	0.005565	-0.03731	2.39e-04	-0.01488	0.001043	0.033834
15D	2.68e-04	0.027072	1.16e-04	0.011719	4.73e-05	-0.00356
16D	-3.2e-04	0.027059	1.07e-04	0.011717	-4.7e-05	-0.00356
17D	6.45e-04	0.074275	2.62e-04	0.031954	-1.1e-04	-0.00915
18D	-7.5e-04	0.074236	2.43e-04	0.031942	-1.1e-04	-0.00916
19D	-2.7e-05	-0.00973	-4.6e-06	-0.00349	-4.5e-06	0.001433
20D	-1.0e-04	-0.03574	-1.7e-05	-0.01281	-1.7e-05	0.005262

Nodo 207						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.32e-04	-0.02397	-6.2e-04	-0.00436	0.	0.056120
2S	5.98e-05	-0.01080	-6.1e-05	-0.00194	0.	0.025607
1D	0.002096	0.016268	-1.8e-04	0.007766	0.	0.008699
2D	0.002072	0.015845	-1.9e-04	0.007584	0.	0.009531
3D	0.002608	0.020185	-2.3e-04	0.009636	0.	0.010810
4D	0.002578	0.019660	-2.4e-04	0.009411	0.	0.011843
5D	2.38e-04	0.018047	1.08e-04	0.008202	0.	-0.02225
6D	-2.8e-04	0.018030	1.02e-04	0.008143	0.	-0.02225
7D	2.97e-04	0.022424	1.35e-04	0.010198	0.	-0.02765
8D	-3.5e-04	0.022402	1.27e-04	0.010124	0.	-0.02765
9D	-2.8e-05	-0.00655	-6.5e-06	-0.00261	0.	0.008176
10D	-3.9e-05	-0.00919	-9.1e-06	-0.00366	0.	0.011469
11D	0.002115	0.014267	-1.9e-04	0.006839	0.	0.008234
12D	0.002081	0.013893	-2.0e-04	0.006684	0.	0.009022
13D	0.005461	0.041828	-4.8e-04	0.019974	0.	0.022531
14D	0.005397	0.040740	-5.0e-04	0.019508	0.	0.024685
15D	2.60e-04	0.016989	1.26e-04	0.007996	0.	-0.02106
16D	-3.1e-04	0.016973	1.19e-04	0.007909	0.	-0.02106
17D	6.26e-04	0.046723	2.86e-04	0.021304	0.	-0.05764
18D	-7.3e-04	0.046678	2.70e-04	0.021143	0.	-0.05763
19D	-2.7e-05	-0.00614	-6.1e-06	-0.00244	0.	0.007654
20D	-9.9e-05	-0.02253	-2.2e-05	-0.00898	0.	0.028113

Nodo 208						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.47e-04	-1.3e-04	-6.4e-04	-2.0e-05	2.63e-05	-0.00407
2S	6.26e-05	-4.8e-05	-6.7e-05	-3.7e-06	2.15e-05	-0.00213
1D	0.002076	-4.8e-04	-4.8e-04	1.31e-04	6.00e-04	-0.03380
2D	0.002053	-5.3e-04	-4.9e-04	1.40e-04	5.96e-04	-0.03313
3D	0.002583	-5.9e-04	-5.9e-04	1.63e-04	7.46e-04	-0.04193
4D	0.002554	-6.5e-04	-6.1e-04	1.74e-04	7.41e-04	-0.04110
5D	2.36e-04	4.62e-04	1.33e-04	-8.4e-05	6.82e-05	-0.01802
6D	-2.7e-04	4.29e-04	1.28e-04	-7.7e-05	-7.5e-05	-0.01800
7D	2.94e-04	5.77e-04	1.66e-04	-1.0e-04	8.50e-05	-0.02238
8D	-3.4e-04	5.36e-04	1.59e-04	-9.7e-05	-9.3e-05	-0.02236
9D	-2.8e-05	-1.5e-05	9.72e-06	-1.8e-06	-7.5e-06	0.007018
10D	-3.9e-05	-2.0e-05	1.36e-05	-2.6e-06	-1.1e-05	0.009844
11D	0.002095	-4.9e-04	-4.8e-04	1.33e-04	6.07e-04	-0.02946
12D	0.002062	-5.5e-04	-4.9e-04	1.43e-04	6.00e-04	-0.02885
13D	0.005409	-0.00125	-0.00124	3.41e-04	0.001564	-0.08686
14D	0.005347	-0.00137	-0.00127	3.66e-04	0.001552	-0.08512
15D	2.57e-04	5.40e-04	1.54e-04	-9.8e-05	7.45e-05	-0.01688
16D	-3.1e-04	5.02e-04	1.48e-04	-9.1e-05	-8.4e-05	-0.01686
17D	6.19e-04	0.001224	3.53e-04	-2.2e-04	1.79e-04	-0.04662
18D	-7.2e-04	0.001138	3.38e-04	-2.1e-04	-2.0e-04	-0.04657
19D	-2.7e-05	-1.4e-05	9.24e-06	-1.8e-06	-7.3e-06	0.006577
20D	-9.9e-05	-5.1e-05	3.39e-05	-6.7e-06	-2.7e-05	0.024158

Nodo 209						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00606	8.94e-06	-5.3e-04	0.	-0.00240	0.029223
2S	-0.00287	-8.9e-06	-4.5e-05	0.	-0.00114	0.013704
1D	0.014531	1.39e-04	2.34e-04	0.	-0.00505	-0.05289
2D	0.014526	1.83e-04	2.44e-04	0.	-0.00510	-0.05281
3D	0.018027	1.72e-04	2.91e-04	0.	-0.00627	-0.06561
4D	0.018020	2.27e-04	3.04e-04	0.	-0.00632	-0.06551
5D	-0.00160	4.33e-04	1.28e-04	0.	0.001044	0.004929
6D	-0.00164	4.48e-04	1.25e-04	0.	0.001116	0.005133
7D	-0.00199	5.40e-04	1.60e-04	0.	0.001298	0.006126
8D	-0.00204	5.60e-04	1.56e-04	0.	0.001388	0.006382
9D	-0.00109	-8.6e-06	-5.8e-06	0.	-6.0e-04	0.004310
10D	-0.00152	-1.2e-05	-8.2e-06	0.	-8.4e-04	0.006047
11D	0.012655	1.40e-04	2.37e-04	0.	-0.00442	-0.04581
12D	0.012653	1.90e-04	2.48e-04	0.	-0.00445	-0.04574
13D	0.037338	3.61e-04	6.10e-04	0.	-0.01298	-0.13585
14D	0.037325	4.78e-04	6.36e-04	0.	-0.01310	-0.13564
15D	-0.00155	5.07e-04	1.49e-04	0.	0.001026	0.004737
16D	-0.00159	5.25e-04	1.46e-04	0.	0.001099	0.005007
17D	-0.00415	0.001147	3.39e-04	0.	0.002714	0.012784
18D	-0.00426	0.001189	3.32e-04	0.	0.002901	0.013332
19D	-0.00102	-8.3e-06	-5.6e-06	0.	-5.6e-04	0.004036
20D	-0.00373	-3.0e-05	-2.0e-05	0.	-0.00207	0.014823

Nodo 210						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.004334	-1.2e-04	-6.5e-04	0.	2.44e-04	-0.02431
2S	0.002028	-4.7e-05	-6.6e-05	0.	1.15e-04	-0.01152
1D	0.012751	-4.8e-04	-4.2e-04	0.	-0.00499	-0.04597
2D	0.012564	-5.2e-04	-4.3e-04	0.	-0.00493	-0.04541
3D	0.015818	-5.9e-04	-5.3e-04	0.	-0.00620	-0.05702
4D	0.015586	-6.5e-04	-5.4e-04	0.	-0.00612	-0.05633
5D	0.004087	4.61e-04	1.19e-04	0.	-0.00229	-0.01162
6D	0.004084	4.29e-04	1.14e-04	0.	-0.00223	-0.01164
7D	0.005077	5.76e-04	1.49e-04	0.	-0.00285	-0.01443
8D	0.005073	5.35e-04	1.43e-04	0.	-0.00277	-0.01445
9D	-0.00177	-1.4e-05	9.25e-06	0.	8.60e-04	-0.00564
10D	-0.00249	-2.0e-05	1.30e-05	0.	0.001207	-0.00791
11D	0.011076	-4.9e-04	-4.3e-04	0.	-0.00435	-0.03983
12D	0.010904	-5.4e-04	-4.4e-04	0.	-0.00429	-0.03934
13D	0.032757	-0.00124	-0.00111	0.	-0.01283	-0.11806
14D	0.032274	-0.00137	-0.00113	0.	-0.01267	-0.11663
15D	0.003805	5.39e-04	1.38e-04	0.	-0.00224	-0.01080
16D	0.003802	5.01e-04	1.32e-04	0.	-0.00216	-0.01081
17D	0.010570	0.001222	3.15e-04	0.	-0.00596	-0.03004
18D	0.010561	0.001136	3.03e-04	0.	-0.00578	-0.03008
19D	-0.00166	-1.4e-05	8.77e-06	0.	8.07e-04	-0.00528
20D	-0.00610	-5.0e-05	3.22e-05	0.	0.002963	-0.01940

Nodo 211						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.01591	1.35e-05	-5.5e-04	-2.3e-05	-0.00207	0.039145
2S	-0.00747	-8.1e-06	-4.8e-05	-4.8e-07	-1.0e-03	0.018197
1D	0.031319	1.37e-04	2.12e-04	-3.2e-05	-0.01324	-0.06439
2D	0.031290	1.81e-04	2.21e-04	-4.0e-05	-0.01334	-0.06433
3D	0.038850	1.71e-04	2.63e-04	-4.0e-05	-0.01642	-0.07986
4D	0.038813	2.26e-04	2.75e-04	-4.9e-05	-0.01655	-0.07980
5D	-0.00273	4.31e-04	1.12e-04	-8.0e-05	0.002285	-0.00407
6D	-0.00278	4.47e-04	1.09e-04	-8.2e-05	0.002418	-0.00424
7D	-0.00340	5.39e-04	1.40e-04	-9.9e-05	0.002839	-0.00506
8D	-0.00346	5.59e-04	1.37e-04	-1.0e-04	0.003005	-0.00527
9D	-0.00243	-8.5e-06	-5.8e-06	1.90e-06	-0.00143	0.005241
10D	-0.00342	-1.2e-05	-8.1e-06	2.67e-06	-0.00201	0.007352
11D	0.027113	1.39e-04	2.15e-04	-3.2e-05	-0.01151	-0.05550
12D	0.027091	1.89e-04	2.25e-04	-4.1e-05	-0.01158	-0.05548
13D	0.080434	3.58e-04	5.52e-04	-8.3e-05	-0.03401	-0.16530
14D	0.080360	4.74e-04	5.76e-04	-1.0e-04	-0.03427	-0.16517
15D	-0.00260	5.05e-04	1.31e-04	-9.3e-05	0.002144	-0.00390
16D	-0.00265	5.23e-04	1.28e-04	-9.6e-05	0.002282	-0.00410
17D	-0.00708	0.001144	2.97e-04	-2.1e-04	0.005913	-0.01056
18D	-0.00721	0.001186	2.90e-04	-2.2e-04	0.006262	-0.01101
19D	-0.00228	-8.2e-06	-5.5e-06	1.82e-06	-0.00134	0.004907
20D	-0.00837	-3.0e-05	-2.0e-05	6.67e-06	-0.00493	0.018022

11D	0.023446	-4.9e-04	-3.8e-04	1.31e-04	-0.01052	-0.04673
12D	0.023145	-5.4e-04	-3.9e-04	1.41e-04	-0.01037	-0.04633
13D	0.069585	-0.00124	-9.8e-04	3.35e-04	-0.03117	-0.13908
14D	0.068715	-0.00136	-0.00100	3.58e-04	-0.03074	-0.13787
15D	0.006311	5.37e-04	1.22e-04	-9.3e-05	-0.00411	0.009531
16D	0.006311	5.00e-04	1.17e-04	-8.6e-05	-0.00404	0.009557
17D	0.017580	0.001219	2.79e-04	-2.1e-04	-0.01140	0.026356
18D	0.017583	0.001133	2.69e-04	-2.0e-04	-0.01120	0.026445
19D	-0.00306	-1.3e-05	8.41e-06	-2.2e-06	0.001793	-0.00533
20D	-0.01125	-4.9e-05	3.09e-05	-7.9e-06	0.006587	-0.01956

Nodo 213

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.03478	2.01e-05	-5.8e-04	0.	-0.00267	0.045677
2S	-0.01620	-6.5e-06	-5.2e-05	0.	-0.00120	0.021035
1D	0.061333	1.35e-04	1.82e-04	0.	-0.02674	-0.07164
2D	0.061301	1.79e-04	1.90e-04	0.	-0.02695	-0.07169
3D	0.076075	1.68e-04	2.26e-04	0.	-0.03317	-0.08885
4D	0.076035	2.22e-04	2.36e-04	0.	-0.03343	-0.08891
5D	-0.00396	4.30e-04	9.09e-05	0.	0.003773	-0.00371
6D	-0.00403	4.46e-04	8.87e-05	0.	0.004027	-0.00407
7D	-0.00492	5.37e-04	1.14e-04	0.	0.004686	-0.00461
8D	-0.00501	5.57e-04	1.11e-04	0.	0.005003	-0.00507
9D	-0.00488	-8.3e-06	-5.9e-06	0.	-0.00273	0.005972
10D	-0.00685	-1.2e-05	-8.2e-06	0.	-0.00383	0.008378
11D	0.052847	1.36e-04	1.85e-04	0.	-0.02314	-0.06154
12D	0.052834	1.86e-04	1.94e-04	0.	-0.02331	-0.06161
13D	0.157455	3.51e-04	4.74e-04	0.	-0.06867	-0.18386
14D	0.157376	4.67e-04	4.96e-04	0.	-0.06922	-0.18399
15D	-0.00369	5.04e-04	1.06e-04	0.	0.003509	-0.00369
16D	-0.00375	5.21e-04	1.03e-04	0.	0.003762	-0.00413
17D	-0.01024	0.001140	2.41e-04	0.	0.009755	-0.00965
18D	-0.01043	0.001182	2.35e-04	0.	0.010417	-0.01062
19D	-0.00457	-8.0e-06	-5.6e-06	0.	-0.00256	0.005592
20D	-0.01679	-2.9e-05	-2.0e-05	0.	-0.00941	0.020541

Nodo 214

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.031247	-1.1e-04	-6.6e-04	0.	0.004820	-0.04389
2S	0.014556	-4.5e-05	-6.8e-05	0.	0.002122	-0.02026
1D	0.052311	-4.7e-04	-3.1e-04	0.	-0.02390	-0.06000
2D	0.051786	-5.2e-04	-3.2e-04	0.	-0.02358	-0.05960
3D	0.064884	-5.8e-04	-3.9e-04	0.	-0.02964	-0.07442
4D	0.064233	-6.4e-04	-4.0e-04	0.	-0.02925	-0.07391
5D	-0.00985	4.58e-04	8.70e-05	0.	-0.00647	0.009034
6D	-0.00986	4.26e-04	8.40e-05	0.	-0.00631	0.009115
7D	-0.01223	5.72e-04	1.09e-04	0.	-0.00804	0.011225
8D	-0.01225	5.32e-04	1.05e-04	0.	-0.00784	0.011326
9D	0.005499	-1.4e-05	-8.5e-06	0.	0.003015	-0.00600
10D	0.007714	-1.9e-05	-1.2e-05	0.	0.004230	-0.00841
11D	0.045077	-4.8e-04	-3.2e-04	0.	-0.02069	-0.05147
12D	0.044621	-5.4e-04	-3.3e-04	0.	-0.02039	-0.05113
13D	0.134293	-0.00122	-8.1e-04	0.	-0.06137	-0.15398
14D	0.132945	-0.00135	-8.3e-04	0.	-0.06056	-0.15293
15D	-0.00913	5.35e-04	1.00e-04	0.	-0.00601	0.008513
16D	-0.00913	4.98e-04	9.71e-05	0.	-0.00586	0.008586
17D	-0.02546	0.001214	2.30e-04	0.	-0.01674	0.023390
18D	-0.02549	0.001129	2.22e-04	0.	-0.01632	0.023599
19D	0.005148	1.31e-05	8.05e-06	0.	0.002829	-0.00562
20D	0.018909	4.80e-05	2.95e-05	0.	0.010391	-0.02064

Nodo 215

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.05493	2.68e-05	-6.0e-04	0.	-0.00248	0.044857
2S	-0.02551	-4.5e-06	-6.6e-05	0.	-9.6e-04	0.020790
1D	0.090668	1.32e-04	1.56e-04	0.	-0.03970	-0.06256
2D	0.090673	1.75e-04	1.64e-04	0.	-0.04004	-0.06265
3D	0.112454	1.64e-04	1.95e-04	0.	-0.04924	-0.07760
4D	0.112461	2.18e-04	2.04e-04	0.	-0.04967	-0.07771
5D	-0.00462	4.29e-04	7.18e-05	0.	0.004890	-0.00312
6D	-0.00477	4.44e-04	6.99e-05	0.	0.005196	-0.00332
7D	-0.00574	5.35e-04	8.97e-05	0.	0.006075	-0.00388
8D	-0.00592	5.55e-04	8.72e-05	0.	0.006454	-0.00413
9D	-0.00736	-8.1e-06	-6.1e-06	0.	-0.00392	0.005396
10D	-0.01032	-1.1e-05	-8.5e-06	0.	-0.00549	0.007569
11D	0.077898	1.33e-04	1.60e-04	0.	-0.03423	-0.05378
12D	0.077930	1.83e-04	1.68e-04	0.	-0.03453	-0.05386
13D	0.232704	3.43e-04	4.08e-04	0.	-0.10192	-0.16057
14D	0.232725	4.59e-04	4.27e-04	0.	-0.10280	-0.16081
15D	-0.00425	5.02e-04	8.37e-05	0.	0.004562	-0.00315
16D	-0.00439	5.20e-04	8.14e-05	0.	0.004840	-0.00339
17D	-0.01194	0.001136	1.90e-04	0.	0.012648	-0.00812
18D	-0.01231	0.001178	1.85e-04	0.	0.013437	-0.00866
19D	-0.00689	-7.8e-06	-5.7e-06	0.	-0.00367	0.005051
20D	-0.02530	-2.9e-05	-2.1e-05	0.	-0.01349	0.018554

Nodo 216

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.050940	-1.0e-04	-6.8e-04	0.	0.003836	-0.04460
2S	0.023674	-4.3e-05	-7.0e-05	0.	0.001576	-0.02071

1D	0.077047	-4.6e-04	-2.5e-04	0.	-0.03521	-0.05341
2D	0.076376	-5.1e-04	-2.6e-04	0.	-0.03479	-0.05304
3D	0.095560	-5.7e-04	-3.2e-04	0.	-0.04368	-0.06624
4D	0.094727	-6.3e-04	-3.2e-04	0.	-0.04315	-0.06578
5D	-0.01136	4.56e-04	7.00e-05	0.	-0.00754	0.007272
6D	-0.01139	4.24e-04	6.78e-05	0.	-0.00733	0.007355
7D	-0.01411	5.70e-04	8.73e-05	0.	-0.00937	0.009037
8D	-0.01415	5.30e-04	8.46e-05	0.	-0.00911	0.009140
9D	0.007545	-1.3e-05	-8.3e-06	0.	0.003816	-0.00584
10D	0.010585	-1.9e-05	-1.2e-05	0.	0.005353	-0.00819
11D	0.066154	-4.8e-04	-2.6e-04	0.	-0.03037	-0.04576
12D	0.065580	-5.3e-04	-2.7e-04	0.	-0.02997	-0.04542
13D	0.197734	-0.00121	-6.6e-04	0.	-0.09041	-0.13705
14D	0.196012	-0.00133	-6.8e-04	0.	-0.08931	-0.13608
15D	-0.01051	5.33e-04	8.07e-05	0.	-0.00701	0.006925
16D	-0.01054	4.96e-04	7.83e-05	0.	-0.00682	0.006991
17D	-0.02935	0.001210	1.85e-04	0.	-0.01951	0.018846
18D	-0.02945	0.001125	1.79e-04	0.	-0.01896	0.019057
19D	0.007064	1.27e-05	-7.8e-06	0.	0.003582	-0.00547
20D	0.025947	4.66e-05	-2.9e-05	0.	0.013157	-0.02008

Nodo 217

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.07361	3.36e-05	-6.2e-04	0.	-0.00228	0.039076
2S	-0.03420	-2.3e-06	-6.0e-05	0.	-0.00102	0.018258
1D	0.114987	1.28e-04	1.37e-04	0.	-0.04978	-0.05146
2D	0.115073	1.72e-04	1.43e-04	0.	-0.05025	-0.05172
3D	0.142613	1.59e-04	1.70e-04	0.	-0.06174	-0.06384
4D	0.142719	2.14e-04	1.78e-04	0.	-0.06232	-0.06415
5D	-0.00467	4.27e-04	5.47e-05	0.	0.005137	0.003643
6D	-0.00488	4.43e-04	5.29e-05	0.	0.005514	0.003838
7D	-0.00580	5.34e-04	6.82e-05	0.	0.006382	0.004531
8D	-0.00605	5.54e-04	6.61e-05	0.	0.006849	0.004776
9D	-0.00948	-7.9e-06	-6.3e-06	0.	-0.00457	0.004449
10D	-0.01329	-1.1e-05	-8.8e-06	0.	-0.00641	0.006241
11D	0.098615	1.30e-04	1.40e-04	0.	-0.04274	-0.04461
12D	0.098720	1.79e-04	1.47e-04	0.	-0.04316	-0.04484
13D	0.295076	3.34e-04	3.57e-04	0.	-0.12776	-0.13218
14D	0.295303	4.49e-04	3.74e-04	0.	-0.12895	-0.13284
15D	-0.00422	5.01e-04	6.35e-05	0.	0.004779	0.003637
16D	-0.00441	5.19e-04	6.14e-05	0.	0.005120	0.003906
17D	-0.01205	0.001133	1.45e-04	0.	0.013284	0.009484
18D	-0.01257	0.001175	1.40e-04	0.	0.014255	0.010011
19D	-0.00887	-7.7e-06	-5.9e-06	0.	-0.00428	0.004166
20D	-0.03258	-2.8e-05	-2.2e-05	0.	-0.01573	0.015304

Nodo 218

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.069744	-9.7e-05	-6.8e-04	0.	0.003289	-0.03990
2S	0.032436	-4.0e-05	-7.1e-05	0.	0.001435	-0.01866
1D	0.098144	-4.6e-04	-2.0e-04	0.	-0.04402	-0.04661
2D	0.097352	-5.0e-04	-2.1e-04	0.	-0.04358	-0.04625
3D	0.121719	-5.7e-04	-2.5e-04	0.	-0.05459	-0.05781
4D	0.120737	-6.3e-04	-2.6e-04	0.	-0.05405	-0.05737
5D	-0.01085	4.55e-04	5.42e-05	0.	-0.00730	0.008545
6D	-0.01092	4.23e-04	5.29e-05	0.	-0.00703	0.008622
7D	-0.01347	5.68e-04	6.77e-05	0.	-0.00906	0.010620
8D	-0.01356	5.28e-04	6.60e-05	0.	-0.00874	0.010716
9D	0.009318	-1.3e-05	-8.0e-06	0.	0.004200	-0.00594
10D	0.013072	-1.8e-05	-1.1e-05	0.	0.005891	-0.00833
11D	0.084036	-4.7e-04	-2.1e-04	0.	-0.03775	-0.04023
12D	0.083355	-5.2e-04	-2.1e-04	0.	-0.03736	-0.03988
13D	0.251816	-0.00119	-5.3e-04	0.	-0.11295	-0.11967
14D	0.249782	-0.00132	-5.4e-04	0.	-0.11182	-0.11875
15D	-0.01001	5.32e-04	6.24e-05	0.	-0.00678	0.008135
16D	-0.01007	4.95e-04	6.10e-05	0.	-0.00653	0.008205
17D	-0.02803	0.001206	1.43e-04	0.	-0.01886	0.022147
18D	-0.02821	0.001121	1.40e-04	0.	-0.01819	0.022345
19D	0.008724	1.23e-05	-7.6e-06	0.	0.003935	-0.00556
20D	0.032044	4.53e-05	-2.8e-05	0.	0.014453	-0.02043

16D	-0.00434	5.18e-04	4.34e-05	-9.7e-05	0.005365	0.004242
17D	-0.01191	0.001131	1.04e-04	-2.1e-04	0.013772	0.010571
18D	-0.01257	0.001173	9.99e-05	-2.2e-04	0.014959	0.010764
19D	-0.01051	-7.5e-06	-6.0e-06	1.56e-06	0.004922	0.003501
20D	-0.03861	-2.8e-05	-2.2e-05	5.73e-06	0.018080	0.012858

Nodo 220

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.084421	-8.9e-05	-6.9e-04	5.12e-06	0.002415	-0.02604
2S	0.039268	-3.8e-05	-7.2e-05	5.40e-06	0.001111	-0.01203
1D	0.117227	-4.5e-04	-1.6e-04	1.24e-04	-0.05289	-0.04704
2D	0.116333	-5.0e-04	-1.6e-04	1.34e-04	-0.05243	-0.04681
3D	0.145382	-5.6e-04	-1.9e-04	1.55e-04	-0.06560	-0.05835
4D	0.144273	-6.0e-04	-2.0e-04	1.67e-04	-0.06503	-0.05807
5D	0.008983	4.54e-04	3.97e-05	-8.3e-05	-0.00671	-0.01008
6D	0.009087	4.22e-04	3.91e-05	-7.7e-05	-0.00636	-0.01021
7D	0.011156	5.67e-04	4.95e-05	-1.0e-04	-0.00833	-0.01253
8D	0.011284	5.27e-04	4.87e-05	-9.6e-05	-0.00790	-0.01269
9D	0.011036	-1.3e-05	-7.8e-06	-2.4e-06	-0.00484	0.005888
10D	0.015481	-1.8e-05	-1.1e-05	-3.3e-06	-0.00679	0.008259
11D	0.100221	-4.7e-04	-1.6e-04	1.27e-04	-0.04526	-0.04087
12D	0.099442	-5.2e-04	-1.6e-04	1.38e-04	-0.04486	-0.04065
13D	0.300738	-0.00118	-4.1e-04	3.25e-04	-0.13570	-0.12084
14D	0.298441	-0.00130	-4.2e-04	3.50e-04	-0.13452	-0.12025
15D	0.008246	5.30e-04	4.54e-05	-9.7e-05	-0.00622	-0.00958
16D	0.008337	4.94e-04	4.48e-05	-9.0e-05	-0.00590	-0.00970
17D	0.023198	0.001203	1.05e-04	-2.2e-04	-0.01734	-0.02612
18D	0.023464	0.001118	1.03e-04	-2.0e-04	-0.01645	-0.02645
19D	0.010332	1.20e-05	-7.4e-06	-2.3e-06	-0.00453	0.005518
20D	0.037948	4.41e-05	-2.7e-05	-8.4e-06	-0.01665	0.020268

Nodo 221

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.09593	4.59e-05	-6.6e-04	0.	5.90e-05	0.010968
2S	-0.04451	1.85e-06	-6.4e-05	0.	1.02e-04	0.004877
1D	0.152445	1.20e-04	1.15e-04	0.	-0.06606	-0.03577
2D	0.153059	1.64e-04	1.20e-04	0.	-0.06672	-0.03656
3D	0.189068	1.49e-04	1.43e-04	0.	-0.08193	-0.04438
4D	0.189830	2.04e-04	1.49e-04	0.	-0.08275	-0.04537
5D	0.004868	4.26e-04	2.64e-05	0.	0.005498	0.002976
6D	0.005153	4.42e-04	2.51e-05	0.	0.005984	0.003172
7D	0.006042	5.32e-04	3.29e-05	0.	0.006829	0.003700
8D	0.006395	5.52e-04	3.13e-05	0.	0.007433	0.003946
9D	-0.01261	-7.6e-06	-6.4e-06	0.	0.005763	0.002747
10D	-0.01768	-1.1e-05	-9.0e-06	0.	0.008084	0.003854
11D	0.130672	1.22e-04	1.18e-04	0.	-0.05667	-0.03142
12D	0.131235	1.72e-04	1.24e-04	0.	-0.05725	-0.03207
13D	0.391180	3.13e-04	3.00e-04	0.	-0.16952	-0.09197
14D	0.392767	4.29e-04	3.13e-04	0.	-0.17122	-0.09401
15D	0.004324	4.99e-04	2.98e-05	0.	0.005110	0.002889
16D	-0.00458	5.17e-04	2.82e-05	0.	0.005560	0.003199
17D	0.012530	0.001130	6.97e-05	0.	0.014214	0.007726
18D	0.013263	0.001172	6.62e-05	0.	0.015471	0.008265
19D	-0.01180	-7.4e-06	-6.0e-06	0.	0.005398	0.002582
20D	-0.04335	-2.7e-05	-2.2e-05	0.	0.019826	0.009483

Nodo 222

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.092897	-8.3e-05	-6.9e-04	0.	5.18e-06	-0.01207
2S	0.043137	-3.6e-05	-7.2e-05	0.	-1.2e-04	-0.00537
1D	0.135453	-4.5e-04	-1.2e-04	0.	-0.06043	-0.04302
2D	0.134509	-4.9e-04	-1.2e-04	0.	-0.05993	-0.04301
3D	0.167984	-5.5e-04	-1.5e-04	0.	-0.07495	-0.05337
4D	0.166813	-6.1e-04	-1.5e-04	0.	-0.07432	-0.05336
5D	0.007000	4.53e-04	2.69e-05	0.	-0.00577	-0.01081
6D	0.007149	4.21e-04	2.69e-05	0.	-0.00533	-0.01095
7D	0.008691	5.66e-04	3.35e-05	0.	-0.00717	-0.01343
8D	0.008877	5.26e-04	3.35e-05	0.	-0.00663	-0.01361
9D	0.012711	1.22e-05	-7.5e-06	0.	-0.00552	0.004973
10D	0.017830	1.72e-05	-1.1e-05	0.	-0.00774	0.006977
11D	0.115768	-4.6e-04	-1.2e-04	0.	-0.05175	-0.03761
12D	0.114935	-5.1e-04	-1.2e-04	0.	-0.05131	-0.03759
13D	0.347485	-0.00116	-3.1e-04	0.	-0.15506	-0.11057
14D	0.345057	-0.00129	-3.1e-04	0.	-0.15375	-0.11056
15D	0.006393	5.29e-04	3.03e-05	0.	-0.00539	-0.01025
16D	0.006529	4.93e-04	3.06e-05	0.	-0.00497	-0.01038
17D	0.018066	0.001201	7.10e-05	0.	-0.01493	-0.02800
18D	0.018451	0.001116	7.10e-05	0.	-0.01380	-0.02837
19D	0.011900	1.17e-05	-7.1e-06	0.	-0.00517	0.004667
20D	0.043709	4.30e-05	-2.6e-05	0.	-0.01900	0.017143

Nodo 223

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.09855	5.23e-05	-6.7e-04	0.	0.001373	8.04e-04
2S	-0.04568	4.05e-06	-6.5e-05	0.	8.90e-04	3.78e-04
1D	0.160851	1.16e-04	1.13e-04	0.	-0.07063	-0.00527
2D	0.161842	1.60e-04	1.17e-04	0.	-0.07133	-0.00586
3D	0.199493	1.45e-04	1.40e-04	0.	-0.08760	-0.00654
4D	0.200724	2.00e-04	1.46e-04	0.	-0.08847	-0.00728
5D	0.004905	4.26e-04	1.74e-05	0.	0.005654	-0.00341

6D	0.005196	4.42e-04	1.65e-05	0.	0.006136	-0.00343
7D	0.006087	5.32e-04	2.17e-05	0.	0.007024	-0.00424
8D	0.006448	5.52e-04	2.06e-05	0.	0.007623	-0.00427
9D	-0.01325	-7.5e-06	-6.3e-06	0.	0.006182	-7.0e-04
10D	-0.01858	-1.1e-05	-8.8e-06	0.	0.008673	-9.8e-04
11D	0.137922	1.18e-04	1.16e-04	0.	-0.06066	-0.00489
12D	0.138809	1.68e-04	1.21e-04	0.	-0.06125	-0.00537
13D	0.412761	3.03e-04	2.94e-04	0.	-0.18127	-0.01362
14D	0.415314	4.20e-04	3.06e-04	0.	-0.18306	-0.01512
15D	0.004316	4.99e-04	1.86e-05	0.	0.005276	-0.00352
16D	0.004573	5.17e-04	1.74e-05	0.	0.005716	-0.00358
17D	0.012616	0.001130	4.57e-05	0.	0.014625	-0.00890
18D	0.013364	0.001172	4.33e-05	0.	0.015869	-0.00897
19D	-0.01240	-7.3e-06	-5.9e-06	0.	0.005794	-6.5e-04
20D	-0.04555	-2.7e-05	-2.2e-05	0.	0.021282	-0.00240

Nodo 224

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.096343	-7.7e-05	-6.9e-04	0.	-0.00202	-0.00342
2S	0.044677	-3.4e-05	-7.1e-05	0.	-0.00120	-0.00155
1D	0.147883	-4.4e-04	-8.3e-05	0.	-0.06655	-0.02059
2D	0.146984	-4.9e-04	-8.4e-05	0.	-0.06601	-0.02090
3D	0.183401	-5.5e-04	-1.0e-04	0.	-0.08254	-0.02556
4D	0.182285	-6.1e-04	-1.0e-04	0.	-0.08187	-0.02594
5D	-0.00611	4.52e-04	1.57e-05	0.	-0.00500	-0.01064
6D	-0.00629	4.20e-04	1.62e-05	0.	-0.00447	-0.01074
7D	-0.00759	5.65e-04	1.96e-05	0.	-0.00622	-0.01322
8D	-0.00781	5.25e-04	2.02e-05	0.	-0.00556	-0.01334
9D	0.013807	1.20e-05	-7.2e-06	0.	-0.00621	0.002474
10D	0.019369	1.68e-05	-1.0e-05	0.	-0.00872	0.003471
11D	0.126443	-4.6e-04	-8.7e-05	0.	-0.05708	-0.01857
12D	0.125641	-5.1e-04	-8.8e-05	0.	-0.05660	-0.01884
13D	0.379387	-0.00115	-2.2e-04	0.	-0.17078	-0.05307
14D	0.377072	-0.00128	-2.2e-04	0.	-0.16939	-0.05387
15D	-0.00563	5.29e-04	1.69e-05	0.	-0.00471	-0.01005
16D	-0.00580	4.92e-04	1.79e-05	0.	-0.00420	-0.01015
17D	-0.01578	0.001199	4.12e-05	0.	-0.01295	-0.02755
18D	-0.01625	0.001114	4.27e-05	0.	-0.01157	-0.02781
19D	0.012928	1.15e-05	-6.8e-06	0.	-0.00583	0.002321
20D	0.047484	4.21e-05	-2.5e-05	0.	-0.02140	0.008524

Nodo 225

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.09672	5.88e-05	-6.7e-04	0.	5.82e-04	-0.00901
2S	-0.04488	6.26e-06	-6.4e-05	0.	3.43e-04	-0.00396
1D	0.156117	1.12e-04	1.16e-04	0.	-0.06824	0.026529
2D	0.157406	1.57e-04	1.20e-04	0.	-0.06894	0.025990
3D	0.193623	1.40e-04	1.45e-04	0.	-0.08463	0.032914
4D	0.195221	1.95e-04	1.49e-04	0.	-0.08550	0.032245
5D	0.004663	4.26e-04	-1.8e-05	0.	0.004992	0.003607
6D	0.004901	4.42e-04	-1.8e-05	0.	0.005506	0.003889
7D	0.005785	5.32e-04	-2.2e-05	0.	0.006201	0.004489
8D	0.006081	5.52e-04	-2.2e-05	0.	0.006840	0.004842
9D	-0.01285	-7.4e-06	-6.0e-06	0.	0.005736	-0.00226
10D	-0.01803	-1.0e-05	-8.4e-06	0.	0.008046	-0.00317
11D	0.133849	1.14e-04	1.20e-04	0.	-0.05856	0.023209
12D	0.134990	1.64e-04	1.24e-04	0.	-0.05916	0.022749
13D	0.400611	2.93e-04	3.03e-04	0.	-0.17512	0.068193
14D	0.403927	4.10e-04	3.13e-04	0.	-0.17691	0.066811
15D	0.004085	4.99e-04	-1.9e-05	0.	0.004653	0.003672
16D	0.004282	5.17e-04	-1.9e-05	0.	0.005137	0.004038
17D	0.011988	0.001130	-4.6e-05	0.	0.012911	0.009410
18D	0.012597	0.001172	-4.6e-05	0.	0.014241	0.010167
19D	-0.01203	-7.2e-06	-5.7e-06	0.	0.005372	-0.00213
20D	-0.04420	-2.6e-05	-2.1e-05	0.	0.019732	-0.00781

Nodo 226

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.096189	-7.1e-05	-6.9e-04	0.	-0.00167	0.004109
2S	0.044633	-3.3e-05	-6.9e-05	0.	-8.9e-04	0.001749
1D	0.149961	-4.4e-04	-5.3e-05	0.	-0.06655	0.009187
2D	0.149216	-4.9e-04	-5.3e-05	0.	-0.06604	0.009024
3D	0.185980	-5.4e-04	-6.6e-05	0.	-0.08254	0.011402
4D	0.185054	-6.0e-04	-6.6e-05	0.	-0.08190	0.011202
5D	0.006642	4.52e-04	1.09e-05	0.	0.003909	0.009778
6D	0.006769	4.20e-04	1.09e-05	0.	0.003451	0.009871
7D	0.008252	5.65e-04	1.36e-05	0.	0.004857	0.012149
8D	0.008409	5.24e-04	1.36e-05	0.	0.004287	0.012264
9D	0.013843	1.17e-05	-6.7e-06	0.	-0.00605	-0.00194
10D	0.019419	1.64e-05	-9.4e-06	0.	-0.00848	-0.00272
11D	0.128275	-4.5e-04	-5.7e-05	0.	-0.05705	0.008181
12D	0.127601	-5.1e-04	-5.6e-05	0.	-0.05660	0.008148
13D	0.384733	-0.00114	-1.4e-04	0.	-0.17077	0.023652
14D	0.382811	-0.00127	-1.4e-04	0.	-0.16945	0.023261
15D	0.006232	5.29e-04	1.12e-05	0.	0.003672	0.009205
16D	0.006354	4.92e-04	1.17e-05	0.	0.003242	0.009280
17D	0.017188	0.001198	2.86e-05	0.	0.010117	0.025311
18D	0.017517	0.001113	2.87e-05	0.	0.008931	0.025549
19D	0.012961	1.12e-05	-6.3e-06	0.	-0.00567	-0.00184
20D	0.047604	1.42e-05	-2.3e-05	0.	-0.02081	-0.00674

Nodo 227						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.08976	6.53e-05	-6.7e-04	-6.6e-06	-2.6e-04	-0.02228
2S	-0.04172	8.35e-06	-6.3e-05	1.71e-06	-1.5e-04	-0.01027
1D	0.142667	1.09e-04	1.25e-04	-5.8e-06	-0.06302	0.038487
2D	0.144145	1.53e-04	1.28e-04	-1.4e-05	-0.06372	0.038104
3D	0.176940	1.35e-04	1.56e-04	-7.2e-06	-0.07816	0.047759
4D	0.178775	1.91e-04	1.60e-04	-1.7e-05	-0.07903	0.047283
5D	0.004311	4.27e-04	-2.7e-05	-7.9e-05	0.004361	-0.00327
6D	0.004516	4.43e-04	-2.7e-05	-8.2e-05	0.004851	-0.00333
7D	0.005349	5.33e-04	-3.3e-05	-9.9e-05	0.005418	-0.00407
8D	0.005603	5.53e-04	-3.4e-05	-1.0e-04	0.006026	-0.00415
9D	-0.01173	-7.4e-06	-5.6e-06	1.71e-06	0.005219	-0.00316
10D	-0.01645	-1.0e-05	-7.9e-06	2.40e-06	0.007321	-0.00443
11D	0.122276	1.10e-04	1.29e-04	-6.2e-06	-0.05403	0.034034
12D	0.123577	1.60e-04	1.32e-04	-1.5e-05	-0.05464	0.033676
13D	0.366087	2.83e-04	3.27e-04	-1.5e-05	-0.16171	0.099025
14D	0.369889	4.00e-04	3.35e-04	-3.6e-05	-0.16352	0.098035
15D	0.003789	5.00e-04	-3.0e-05	-9.3e-05	0.004068	-0.00323
16D	0.003966	5.18e-04	-3.1e-05	-9.6e-05	0.004534	-0.00332
17D	0.011086	0.001131	-7.1e-05	-2.1e-04	0.011280	-0.00851
18D	0.011611	0.001174	-7.2e-05	-2.2e-04	0.012549	-0.00868
19D	-0.01098	-7.2e-06	-5.3e-06	1.63e-06	0.004885	-0.00296
20D	-0.04033	-2.6e-05	-2.0e-05	6.00e-06	0.017944	-0.01089

Nodo 228						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.092014	-6.6e-05	-6.8e-04	1.42e-05	-0.00117	0.014661
2S	0.042720	-3.1e-05	-6.7e-05	7.82e-06	-5.2e-04	0.006856
1D	0.145122	-4.3e-04	-2.9e-05	1.13e-04	-0.06488	0.016909
2D	0.144583	-4.8e-04	-2.6e-05	1.23e-04	-0.06443	0.016276
3D	0.179979	-5.4e-04	-3.6e-05	1.41e-04	-0.08046	0.020985
4D	0.179308	-6.0e-04	-3.3e-05	1.54e-04	-0.07991	0.020199
5D	0.007598	4.52e-04	-1.9e-05	-8.6e-05	-0.00349	0.008926
6D	0.007646	4.20e-04	-1.7e-05	-7.9e-05	0.003181	0.009100
7D	0.009440	5.65e-04	-2.3e-05	-1.1e-04	-0.00434	0.011090
8D	0.009500	5.24e-04	-2.2e-05	-9.9e-05	0.003951	0.011306
9D	0.013068	1.15e-05	-6.2e-06	-2.6e-06	-0.00574	-0.00331
10D	0.018331	1.61e-05	-8.7e-06	-3.6e-06	-0.00806	-0.00465
11D	0.124138	-4.5e-04	-3.1e-05	1.16e-04	-0.05557	0.015032
12D	0.123643	-5.0e-04	-2.9e-05	1.28e-04	-0.05519	0.014470
13D	0.372320	-0.00113	-7.5e-05	2.95e-04	-0.16647	0.043528
14D	0.370925	-0.00126	-7.0e-05	3.23e-04	-0.16533	0.041897
15D	0.007152	5.29e-04	-2.1e-05	-1.0e-04	0.003238	0.008379
16D	0.007198	4.92e-04	-2.0e-05	-9.3e-05	0.002948	0.008532
17D	0.019669	0.001198	-5.0e-05	-2.3e-04	-0.00903	0.023100
18D	0.019794	0.001113	-4.6e-05	-2.1e-04	0.008221	0.023547
19D	0.012233	1.10e-05	-5.8e-06	-2.5e-06	-0.00538	-0.00311
20D	0.044934	4.06e-05	-2.1e-05	-9.1e-06	-0.01975	-0.01144

Nodo 229						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.07706	7.24e-05	-6.7e-04	0.	2.56e-04	-0.03481
2S	-0.03581	1.05e-05	-6.0e-05	0.	1.43e-04	-0.01626
1D	0.125860	1.05e-04	1.41e-04	0.	-0.05534	0.044442
2D	0.127400	1.50e-04	1.43e-04	0.	-0.05596	0.044385
3D	0.156096	1.31e-04	1.75e-04	0.	-0.06864	0.055139
4D	0.158007	1.86e-04	1.78e-04	0.	-0.06940	0.055068
5D	0.003923	4.27e-04	-4.0e-05	0.	0.003827	-0.00392
6D	0.004077	4.43e-04	-4.0e-05	0.	0.004283	-0.00399
7D	0.004867	5.33e-04	-5.0e-05	0.	0.004754	-0.00488
8D	0.005058	5.54e-04	-5.1e-05	0.	0.005322	-0.00497
9D	-0.01022	-7.3e-06	-5.1e-06	0.	0.004518	-0.00385
10D	-0.01434	-1.0e-05	-7.2e-06	0.	0.006338	-0.00540
11D	0.107903	1.07e-04	1.44e-04	0.	-0.04749	0.038923
12D	0.109249	1.57e-04	1.47e-04	0.	-0.04802	0.038862
13D	0.322967	2.74e-04	3.67e-04	0.	-0.14202	0.114252
14D	0.326927	3.92e-04	3.74e-04	0.	-0.14361	0.114103
15D	0.003437	5.00e-04	-4.5e-05	0.	0.003592	-0.00405
16D	0.003577	5.19e-04	-4.6e-05	0.	0.004026	-0.00415
17D	0.010085	0.001133	-1.0e-04	0.	0.009903	-0.01024
18D	0.010482	0.001175	-1.1e-04	0.	0.011087	-0.01043
19D	-0.00957	-7.1e-06	-4.9e-06	0.	0.004233	-0.00360
20D	-0.03515	-2.6e-05	-1.8e-05	0.	0.015549	-0.01323

Nodo 230						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.083271	-6.1e-05	-6.7e-04	0.	-0.00210	0.024617
2S	0.038587	-3.0e-05	-6.4e-05	0.	-0.00103	0.011706
1D	0.137491	-4.3e-04	1.53e-05	0.	-0.06054	0.025351
2D	0.137128	-4.8e-04	1.39e-05	0.	-0.06020	0.024786
3D	0.170514	-5.4e-04	1.90e-05	0.	-0.07508	0.031469
4D	0.170062	-6.0e-04	1.72e-05	0.	-0.07466	0.030768
5D	0.008183	4.52e-04	-3.2e-05	0.	-0.00378	0.009159
6D	0.008212	4.20e-04	-2.9e-05	0.	-0.00355	0.009325
7D	0.010166	5.65e-04	-4.0e-05	0.	-0.00470	0.011380
8D	0.010201	5.25e-04	-3.6e-05	0.	-0.00441	0.011585
9D	0.011925	1.13e-05	-5.6e-06	0.	-0.00515	-0.00450
10D	0.016728	1.59e-05	-7.8e-06	0.	-0.00723	-0.00631

11D	0.117582	-4.5e-04	1.54e-05	0.	-0.05185	0.022816
12D	0.117240	-5.0e-04	1.38e-05	0.	-0.05159	0.022295
13D	0.352734	-0.00112	3.98e-05	0.	-0.15532	0.065334
14D	0.351793	-0.00125	3.60e-05	0.	-0.15447	0.063876
15D	0.007633	5.29e-04	-3.7e-05	0.	-0.00348	0.008600
16D	0.007653	4.92e-04	-3.4e-05	0.	-0.00326	0.008749
17D	0.021164	0.001199	-8.4e-05	0.	-0.00977	0.023705
18D	0.021236	0.001114	-7.7e-05	0.	-0.00917	0.024132
19D	0.011164	1.09e-05	-5.3e-06	0.	-0.00483	-0.00422
20D	0.041005	4.00e-05	-1.9e-05	0.	-0.01774	-0.01548

Nodo 231						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.06038	8.00e-05	-6.6e-04	0.	0.001085	-0.04013
2S	-0.02806	1.27e-05	-5.7e-05	0.	6.63e-04	-0.01857
1D	0.104451	1.02e-04	1.62e-04	0.	-0.04623	0.057903
2D	0.105883	1.47e-04	1.64e-04	0.	-0.04672	0.058327
3D	0.129547	1.26e-04	2.02e-04	0.	-0.05734	0.071820
4D	0.131324	1.82e-04	2.05e-04	0.	-0.05794	0.072346
5D	0.003644	4.28e-04	-5.4e-05	0.	0.003500	-0.00331
6D	0.003716	4.44e-04	-5.5e-05	0.	0.003889	-0.00348
7D	0.004523	5.35e-04	-6.8e-05	0.	0.004350	-0.00412
8D	0.004613	5.55e-04	-6.9e-05	0.	0.004833	-0.00433
9D	-0.00830	-7.3e-06	-4.6e-06	0.	0.003872	-0.00498
10D	-0.01164	-1.0e-05	-6.4e-06	0.	0.005432	-0.00698
11D	0.089665	1.03e-04	1.66e-04	0.	-0.03981	0.049905
12D	0.090909	1.54e-04	1.68e-04	0.	-0.04021	0.050276
13D	0.268059	2.65e-04	4.23e-04	0.	-0.11867	0.148649
14D	0.271739	3.84e-04	4.29e-04	0.	-0.11992	0.149740
15D	0.003270	5.02e-04	-6.3e-05	0.	0.003339	-0.00332
16D	0.003331	5.20e-04	-6.4e-05	0.	0.003702	-0.00352
17D	0.009389	0.001135	-1.4e-04	0.	0.009072	-0.00862
18D	0.009573	0.001178	-1.5e-04	0.	0.010077	-0.00907
19D	-0.00777	-7.1e-06	-4.4e-06	0.	0.003634	-0.00466
20D	-0.02852	-2.6e-05	-1.6e-05	0.	0.013348	-0.01711

Nodo 232						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.071596	-5.6e-05	-6.6e-04	0.	-0.00357	0.027847
2S	0.033072	-2.8e-05	-6.0e-05	0.	-0.00181	0.013079
1D	0.124658	-4.3e-04	2.77e-05	0.	-0.05529	0.042297
2D	0.124431	-4.8e-04	3.14e-05	0.	-0.05499	0.041902
3D	0.154599	-5.3e-04	3.45e-05	0.	-0.06857	0.052475
4D	0.154317	-5.9e-04	3.90e-05	0.	-0.06821	0.051986
5D	-0.00838	4.53e-04	-4.7e-05	0.	-0.00458	0.009965
6D	-0.00845	4.21e-04	-4.3e-05	0.	-0.00436	0.010081
7D	-0.01041	5.65e-04	-5.8e-05	0.	-0.00568	0.012386
8D	-0.01049	5.25e-04	-5.4e-05	0.	-0.00542	0.012529
9D	0.010469	1.12e-05	-4.9e-06	0.	-0.00466	-0.00549
10D	0.014686	1.57e-05	-6.8e-06	0.	-0.00653	-0.00769
11D	0.106624	-4.4e-04	2.66e-05	0.	-0.04739	0.036944
12D	0.106397	-5.0e-04	3.11e-05	0.	-0.04716	0.036593
13D	0.319816	-0.00112	7.19e-05	0.	-0.14187	0.108712
14D	0.319224	-0.00125	8.16e-05	0.	-0.14112	0.107697
15D	-0.00768	5.29e-04	-5.4e-05	0.	-0.00423	0.009530
16D	-0.00773	4.92e-04	-5.0e-05	0.	-0.00401	0.009632
17D	-0.02164	0.001201	-1.2e-04	0.	-0.01183	0.025839
18D	-0.02181	0.001115	-1.1e-04	0.	-0.01127	0.026136
19D	0.009801	1.08e-05	-4.6e-06	0.	-0.00437	-0.00514
20D	0.036000	3.95e-05	-1.7e-05	0.	-0.01604	-0.01887

Nodo 233						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.04266	8.77e-05	-6.5e-04	0.	0.001317	-0.03950
2S	-0.01988	1.47e-05	-5.2e-05	0.	5.85e-04	-0.

1D	0.104131	-4.3e-04	4.78e-05	0.	-0.04531	0.058124
2D	0.104020	-4.8e-04	5.43e-05	0.	-0.04503	0.057818
3D	0.129145	-5.3e-04	5.94e-05	0.	-0.05620	0.072096
4D	0.129005	-5.9e-04	6.76e-05	0.	-0.05585	0.071716
5D	-0.00872	4.54e-04	-6.4e-05	0.	-0.00506	0.010407
6D	-0.00884	4.21e-04	-5.9e-05	0.	-0.00489	0.010471
7D	-0.01083	5.67e-04	-7.9e-05	0.	-0.00628	0.012938
8D	-0.01098	5.26e-04	-7.3e-05	0.	-0.00608	0.013018
9D	0.008697	1.11e-05	-4.2e-06	0.	-0.00373	0.005952
10D	0.012200	1.56e-05	-5.9e-06	0.	-0.00524	0.008349
11D	0.089167	-4.4e-04	4.74e-05	0.	-0.03887	0.050183
12D	0.089040	-5.0e-04	5.51e-05	0.	-0.03862	0.049900
13D	0.267180	-0.00111	1.24e-04	0.	-0.11628	0.149238
14D	0.266885	-0.00124	1.42e-04	0.	-0.11555	0.148448
15D	-0.00793	5.31e-04	-7.4e-05	0.	-0.00470	0.010090
16D	-0.00804	4.93e-04	-6.9e-05	0.	-0.00453	0.010150
17D	-0.02250	0.001203	-1.7e-04	0.	-0.01308	0.027021
18D	-0.02282	0.001117	-1.6e-04	0.	-0.01265	0.027188
19D	0.008142	1.07e-05	-4.0e-06	0.	-0.00350	0.005576
20D	0.029905	3.92e-05	-1.5e-05	0.	-0.01286	0.020481

Nodo 235

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.02518	9.52e-05	-6.3e-04	9.30e-06	2.43e-04	-0.03904
2S	-0.01179	1.64e-05	-4.7e-05	5.05e-06	6.00e-05	-0.01816
1D	0.046527	9.53e-05	2.24e-04	1.11e-05	-0.02023	0.066895
2D	0.047261	1.41e-04	2.26e-04	9.84e-06	-0.02044	0.067893
3D	0.057712	1.19e-04	2.78e-04	1.38e-05	-0.02509	0.082972
4D	0.058622	1.75e-04	2.81e-04	1.22e-05	-0.02535	0.084210
5D	0.002351	4.31e-04	-8.8e-05	-7.7e-05	0.001769	-0.00354
6D	0.002344	4.47e-04	-9.0e-05	-8.0e-05	0.001924	-0.00365
7D	0.002921	5.38e-04	-1.1e-04	-9.6e-05	0.002199	-0.00440
8D	0.002913	5.59e-04	-1.1e-04	-1.0e-04	0.002392	-0.00454
9D	-0.00347	-7.3e-06	-3.9e-06	1.88e-06	0.001625	-0.00535
10D	-0.00486	-1.0e-05	-5.5e-06	2.64e-06	0.002280	-0.00750
11D	0.040183	9.72e-05	2.27e-04	1.07e-05	-0.01751	0.057596
12D	0.040816	1.48e-04	2.29e-04	9.21e-06	-0.01768	0.058458
13D	0.119468	2.49e-04	5.83e-04	2.87e-05	-0.05194	0.171720
14D	0.121352	3.69e-04	5.89e-04	2.54e-05	-0.05249	0.174283
15D	0.002234	5.05e-04	-1.0e-04	-9.0e-05	0.001720	-0.00358
16D	0.002226	5.23e-04	-1.0e-04	-9.3e-05	0.001869	-0.00372
17D	0.006090	0.001142	-2.3e-04	-2.0e-04	0.004594	-0.00922
18D	0.006072	0.001186	-2.4e-04	-2.1e-04	0.004996	-0.00952
19D	-0.00325	-7.1e-06	-3.8e-06	1.79e-06	0.001522	-0.00501
20D	-0.01192	-2.6e-05	-1.4e-05	6.56e-06	0.005592	-0.01838

Nodo 236

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.045887	-4.7e-05	-6.3e-04	2.26e-05	-0.00214	0.028972
2S	0.021062	-2.6e-05	-5.1e-05	9.64e-06	-9.9e-04	0.013594
1D	0.079938	-4.2e-04	6.93e-05	1.03e-04	-0.03472	0.058053
2D	0.079898	-4.7e-04	7.86e-05	1.15e-04	-0.03449	0.057921
3D	0.099146	-5.3e-04	8.62e-05	1.29e-04	-0.04307	0.072005
4D	0.099095	-5.9e-04	9.78e-05	1.43e-04	-0.04278	0.071842
5D	-0.00953	4.55e-04	-8.3e-05	-8.8e-05	0.005367	0.008484
6D	-0.00969	4.23e-04	-7.6e-05	-8.1e-05	0.005284	0.008471
7D	-0.01184	5.68e-04	-1.0e-04	-1.1e-04	0.006668	0.010549
8D	-0.01203	5.28e-04	-9.5e-05	-1.0e-04	0.006565	0.010532
9D	0.006923	1.10e-05	-3.6e-06	-2.7e-06	-0.00296	0.005185
10D	0.009712	1.55e-05	-5.1e-06	-3.8e-06	-0.00415	0.007273
11D	0.068671	-4.4e-04	7.00e-05	1.07e-04	-0.02989	0.050019
12D	0.068606	-4.9e-04	8.07e-05	1.20e-04	-0.02967	0.049891
13D	0.205163	-0.00111	1.81e-04	2.70e-04	-0.08913	0.149027
14D	0.205051	-0.00124	2.05e-04	3.00e-04	-0.08854	0.148686
15D	-0.00880	5.32e-04	-9.7e-05	-1.0e-04	0.005028	0.008266
16D	-0.00894	4.95e-04	-8.9e-05	-9.5e-05	0.004939	0.008242
17D	-0.02463	0.001206	-2.2e-04	-2.3e-04	0.013888	0.022040
18D	-0.02503	0.001120	-2.0e-04	-2.1e-04	0.013670	0.022002
19D	0.006481	1.06e-05	-3.5e-06	-2.6e-06	-0.00277	0.004857
20D	0.023806	3.90e-05	-1.3e-05	-9.5e-06	-0.01017	0.017840

Nodo 237

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00990	1.02e-04	-6.2e-04	0.	0.005106	-0.02962
2S	-0.00467	1.79e-05	-4.3e-05	0.	0.002379	-0.01383
1D	0.020141	9.23e-05	2.67e-04	0.	-0.00794	0.053099
2D	0.020472	1.38e-04	2.70e-04	0.	-0.00802	0.053959
3D	0.024987	1.15e-04	3.32e-04	0.	-0.00985	0.065867
4D	0.025398	1.72e-04	3.36e-04	0.	-0.00995	0.066933
5D	0.001412	4.32e-04	-1.1e-04	0.	0.001204	0.003319
6D	0.001435	4.49e-04	-1.1e-04	0.	-0.00129	0.003337
7D	0.001758	5.40e-04	-1.4e-04	0.	0.001501	0.004128
8D	0.001785	5.60e-04	-1.4e-04	0.	-0.00160	0.004151
9D	-0.00138	-7.4e-06	-4.0e-06	0.	6.74e-04	-0.00406
10D	-0.00193	-1.0e-05	-5.6e-06	0.	9.45e-04	-0.00570
11D	0.017551	9.43e-05	2.70e-04	0.	-0.00693	0.045952
12D	0.017843	1.45e-04	2.72e-04	0.	-0.00700	0.046683
13D	0.051756	2.41e-04	6.96e-04	0.	-0.02040	0.136367
14D	0.052607	3.61e-04	7.03e-04	0.	-0.02062	0.138572
15D	0.001433	5.07e-04	-1.3e-04	0.	0.001326	0.003297

16D	0.001462	5.25e-04	-1.3e-04	0.	-0.00142	0.003328
17D	0.003683	0.001146	-2.9e-04	0.	0.003169	0.008636
18D	0.003743	0.001190	-2.9e-04	0.	-0.00338	0.008687
19D	-0.00129	-7.2e-06	-4.0e-06	0.	6.33e-04	-0.00380
20D	-0.00474	-2.6e-05	-1.5e-05	0.	0.002325	-0.01397

Nodo 238

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.033176	-4.1e-05	-6.1e-04	0.	-1.8e-04	0.028147
2S	0.015103	-2.4e-05	-4.6e-05	0.	-1.7e-04	0.013181
1D	0.057117	-4.2e-04	9.38e-05	0.	-0.02347	0.051148
2D	0.057101	-4.7e-04	1.06e-04	0.	-0.02337	0.051167
3D	0.070850	-5.3e-04	1.17e-04	0.	-0.02911	0.063438
4D	0.070829	-5.9e-04	1.32e-04	0.	-0.02900	0.063462
5D	-0.00986	4.57e-04	-1.1e-04	0.	0.005066	-0.00542
6D	-0.01000	4.24e-04	-9.7e-05	0.	0.005053	-0.00545
7D	-0.01225	5.70e-04	-1.3e-04	0.	0.006296	-0.00674
8D	-0.01242	5.29e-04	-1.2e-04	0.	0.006279	-0.00677
9D	0.005318	1.10e-05	-3.2e-06	0.	-0.00217	0.004268
10D	0.007460	1.54e-05	-4.5e-06	0.	-0.00304	0.005987
11D	0.049418	-4.4e-04	9.57e-05	0.	-0.02039	0.043941
12D	0.049377	-4.9e-04	1.10e-04	0.	-0.02031	0.043963
13D	0.146682	-0.00111	2.45e-04	0.	-0.06029	0.131270
14D	0.146634	-0.00124	2.77e-04	0.	-0.06005	0.131321
15D	-0.00926	5.34e-04	-1.2e-04	0.	0.004803	-0.00516
16D	-0.00939	4.96e-04	-1.1e-04	0.	0.004787	-0.00518
17D	-0.02552	0.001210	-2.8e-04	0.	0.013125	-0.01405
18D	-0.02587	0.001124	-2.6e-04	0.	0.013089	-0.01411
19D	0.004979	1.06e-05	-3.2e-06	0.	-0.00203	0.003996
20D	0.018289	3.89e-05	-1.2e-05	0.	-0.00746	0.014679

Nodo 239

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.03e-04	1.07e-04	-6.1e-04	-2.7e-05	0.001061	-0.01535
2S	-5.0e-06	1.82e-05	-3.9e-05	-9.5e-06	4.54e-04	-0.00713
1D	0.002897	8.91e-05	3.16e-04	7.85e-06	0.001187	0.029744
2D	0.003044	1.35e-04	3.19e-04	1.11e-05	0.001239	0.030070
3D	0.003605	1.11e-04	3.93e-04	9.76e-06	0.001476	0.036908
4D	0.003788	1.68e-04	3.97e-04	1.39e-05	0.001540	0.037310
5D	-3.5e-04	4.33e-04	-1.3e-04	-8.2e-05	-1.4e-04	0.005134
6D	-3.3e-04	4.50e-04	-1.3e-04	-8.5e-05	-1.4e-04	0.005159
7D	-4.4e-04	5.41e-04	-1.6e-04	-1.0e-04	-1.7e-04	0.006399
8D	-4.1e-04	5.62e-04	-1.7e-04	-1.1e-04	-1.7e-04	0.006430
9D	-3.5e-05	-7.3e-06	-4.5e-06	1.74e-06	1.58e-05	-0.00215
10D	-4.9e-05	-1.0e-05	-6.3e-06	2.44e-06	7.27e-05	-0.00301
11D	0.002950	9.12e-05	3.18e-04	7.48e-06	0.001174	0.026250
12D	0.003109	1.42e-04	3.21e-04	-1.1e-05	0.001230	0.026445
13D	0.007557	2.32e-04	8.23e-04	2.03e-05	0.003085	0.076514
14D	0.007943	3.53e-04	8.31e-04	2.91e-05	0.003222	0.077330
15D	-3.9e-04	5.08e-04	-1.5e-04	-9.6e-05	-1.5e-04	0.005600
16D	3.61e-04	5.26e-04	-1.5e-04	-1.0e-04	-1.5e-04	0.005628
17D	-9.3e-04	0.001149	-3.5e-04	-2.2e-04	-3.6e-04	0.013498
18D	-8.6e-04	0.001192	-3.5e-04	-2.3e-04	-3.6e-04	0.013563
19D	-3.4e-05	-7.2e-06	-4.5e-06	1.68e-06	4.94e-05	-0.00201
20D	-1.3e-04	-2.6e-05	-1.6e-05	6.16e-06	1.81e-04	-0.00739

Nodo 240

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.00e-04	-0.00427	-7.1e-04	0.002069	0.	0.005118
2S	-9.7e-06	-0.00200	-7.8e-05	0.001002	0.	0.002423
1D	0.002898	0.008628	-6.9e-05	0.002819	0.	-0.00983
2D	0.003045	0.008701	-8.2e-05	0.002735	0.	-0.00999
3D	0.003606	0.010708	-8.6e-05	0.003502	0.	-0.01220
4D	0.003789	0.010798	-1.0e-04	0.003396	0.	-0.01239
5D	-3.5e-04	0.002126	-7.3e-05	-0.00219	0.	-1.0e-03
6D	-3.3e-04	0.002155	-7.9e-05	-0.00221	0.	-0.00111
7D	-4.4e-04	0.002651	-9.1e-05	-0.00273	0.	-0.00124
8D	-4.1e-04	0.002687	-9.9e-05	-0.00276	0.	-0.00138
9D	-3.5e-05	-6.0e-04	-6.1e-06	2.61e-04	0.	7.42e-04
10D	-4.9e-05	-8.4e-04	-8.6e-06	3.66e-04	0.	0.001041
11D	0.002952	0.007690	-7.0e-05	0.002617	0.	-0.00856
12D	0.003111	0.007720	-8.4e-05	0.002498	0.	-0.00869
13D	0.007559	0.022213	-1.8e-04	0.007285	0.	-0.02526
14D	0.007946	0.022393	-2.1e-04	0.007057	0.	-0.02566
15D	-3.9e-04	0.002340	-8.5e-05	-0.00250	0.	-0.00107
16D	3.62e-04	0.002374	-9.2e-05	-0.00253	0.	-0.00121
17D	-9.3e-04	0.005596	-1.9e-04	-0.00579	0.	-0.00261
18D	-8.6e-04	0.005674	-2.1e-04	-0.00585	0.	-0.00291
19D	-3.4e-05	-5.6e-04	-5.9e-06	2.52e-04	0.	6.96e-04
20D	-1.2e-04	-0.00207	-2.2e-05	9.25e-04	0.	0.002555

6D	-3.3e-04	4.72e-04	5.61e-05	-1.2e-04	-1.6e-04	-0.00502
7D	-4.4e-04	5.93e-04	7.47e-05	-1.5e-04	-1.9e-04	-0.00607
8D	-4.1e-04	5.89e-04	7.00e-05	-1.5e-04	-2.0e-04	-0.00626
9D	-3.5e-05	2.46e-05	-1.3e-05	4.23e-05	9.94e-05	6.15e-04
10D	-5.0e-05	3.45e-05	-1.8e-05	5.93e-05	1.39e-04	8.63e-04
11D	0.002950	-2.1e-04	-4.9e-04	5.60e-05	0.001201	-0.00895
12D	0.003109	-2.0e-04	-5.2e-04	6.17e-05	0.001251	-0.00890
13D	0.007556	-5.1e-04	-0.00127	1.46e-04	0.003242	-0.02492
14D	0.007942	-4.8e-04	-0.00135	1.64e-04	0.003367	-0.02493
15D	-3.9e-04	5.55e-04	6.63e-05	-1.4e-04	-1.6e-04	-0.00545
16D	3.61e-04	5.51e-04	6.27e-05	-1.4e-04	-1.7e-04	-0.00562
17D	-9.3e-04	0.001259	1.58e-04	-3.3e-04	-3.9e-04	-0.01284
18D	-8.6e-04	0.001250	1.48e-04	-3.2e-04	-4.2e-04	-0.01323
19D	-3.5e-05	2.40e-05	-1.2e-05	3.98e-05	9.49e-05	5.81e-04
20D	-1.3e-04	8.80e-05	-4.5e-05	1.46e-04	3.49e-04	0.002135

Nodo 242

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.021065	-3.5e-05	-6.0e-04	2.52e-05	-0.00115	0.026272
2S	0.009465	-2.3e-05	-4.0e-05	8.40e-06	-6.1e-04	0.012152
1D	0.037097	-4.2e-04	1.20e-04	1.01e-04	-0.01541	0.043139
2D	0.037114	-4.7e-04	1.36e-04	1.12e-04	-0.01538	0.043124
3D	0.046026	-5.3e-04	1.50e-04	1.25e-04	-0.01912	0.053508
4D	0.046047	-5.9e-04	1.69e-04	1.40e-04	-0.01908	0.053490
5D	-0.00849	4.58e-04	-1.3e-04	-8.8e-05	0.004474	-0.00625
6D	-0.00859	4.25e-04	-1.2e-04	-8.1e-05	0.004488	-0.00634
7D	-0.01056	5.72e-04	-1.6e-04	-1.1e-04	0.005560	-0.00777
8D	-0.01067	5.31e-04	-1.5e-04	-1.0e-04	0.005579	-0.00788
9D	0.003712	1.10e-05	-3.2e-06	-2.7e-06	-0.00163	0.003950
10D	0.005207	1.54e-05	-4.5e-06	-3.7e-06	-0.00229	0.005541
11D	0.032461	-4.4e-04	1.24e-04	1.04e-04	-0.01356	0.037207
12D	0.032467	-4.9e-04	1.41e-04	1.17e-04	-0.01355	0.037175
13D	0.095364	-0.00111	3.14e-04	2.63e-04	-0.03963	0.110753
14D	0.095404	-0.00124	3.56e-04	2.93e-04	-0.03955	0.110712
15D	-0.00807	5.36e-04	-1.5e-04	-1.0e-04	0.004279	-0.00586
16D	-0.00816	4.98e-04	-1.4e-04	-9.5e-05	0.004291	-0.00594
17D	-0.02201	0.001215	-3.5e-04	-2.3e-04	0.011600	-0.01618
18D	-0.02225	0.001128	-3.2e-04	-2.1e-04	0.011637	-0.01641
19D	0.003476	1.06e-05	-3.2e-06	-2.5e-06	-0.00153	0.003699
20D	0.012769	3.88e-05	-1.2e-05	-9.3e-06	-0.00562	0.013587

Nodo 243

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-5.1e-04	4.32e-04	-7.9e-04	0.	0.001371	-0.00212
2S	-3.0e-04	2.33e-04	-9.9e-05	0.	5.19e-04	-0.00101
1D	0.004288	-1.9e-04	-4.4e-04	0.	0.001608	0.001888
2D	0.004507	-1.8e-04	-4.7e-04	0.	0.001693	0.001863
3D	0.005331	-2.4e-04	-5.5e-04	0.	0.002004	0.002346
4D	0.005603	-2.2e-04	-5.8e-04	0.	0.002110	0.002314
5D	8.63e-04	4.76e-04	8.11e-05	0.	0.001407	7.97e-04
6D	8.89e-04	4.73e-04	-8.3e-05	0.	-0.00147	8.14e-04
7D	0.001076	5.94e-04	1.01e-04	0.	0.001755	9.94e-04
8D	0.001109	5.90e-04	-1.0e-04	0.	-0.00184	0.001016
9D	-1.1e-04	2.69e-05	-1.1e-05	0.	-1.1e-04	-1.7e-04
10D	-1.5e-04	3.77e-05	-1.5e-05	0.	-1.5e-04	-2.3e-04
11D	0.004162	-2.1e-04	-4.4e-04	0.	0.001750	0.001784
12D	0.004408	-2.0e-04	-4.7e-04	0.	0.001834	0.001737
13D	0.011130	-5.0e-04	-0.00114	0.	0.004227	0.004887
14D	0.011706	-4.7e-04	-0.00122	0.	0.004448	0.004815
15D	9.65e-04	5.55e-04	9.26e-05	0.	-0.00158	8.86e-04
16D	9.97e-04	5.52e-04	-9.6e-05	0.	-0.00166	9.07e-04
17D	0.002275	0.001261	2.14e-04	0.	0.003711	0.002101
18D	0.002346	0.001252	-2.2e-04	0.	-0.00389	0.002147
19D	-1.0e-04	2.61e-05	-1.1e-05	0.	-1.1e-04	-1.6e-04
20D	-3.7e-04	9.57e-05	-3.9e-05	0.	-3.9e-04	-5.9e-04

Nodo 244

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.010170	-2.9e-05	-5.8e-04	0.	-0.00263	0.022684
2S	0.004467	-2.2e-05	-3.5e-05	0.	-0.00136	0.010308
1D	0.019261	-4.3e-04	1.53e-04	0.	-0.00788	0.038987
2D	0.019339	-4.8e-04	1.72e-04	0.	-0.00790	0.038943
3D	0.023903	-5.3e-04	1.90e-04	0.	-0.00979	0.048376
4D	0.024000	-5.9e-04	2.14e-04	0.	-0.00980	0.048320
5D	-0.00512	4.60e-04	-1.6e-04	0.	0.003387	-0.00982
6D	-0.00516	4.27e-04	-1.5e-04	0.	0.003343	-0.00994
7D	-0.00636	5.75e-04	-2.0e-04	0.	0.004214	-0.01220
8D	-0.00642	5.34e-04	-1.9e-04	0.	0.004159	-0.01235
9D	0.001965	1.10e-05	-3.6e-06	0.	-9.6e-04	0.004143
10D	0.002756	1.54e-05	-5.1e-06	0.	-0.00134	0.005811
11D	0.017072	-4.4e-04	1.57e-04	0.	-0.00714	0.034315
12D	0.017161	-5.0e-04	1.79e-04	0.	-0.00717	0.034242
13D	0.049570	-0.00111	3.98e-04	0.	-0.02032	0.100273
14D	0.049775	-0.00124	4.50e-04	0.	-0.02036	0.100149
15D	-0.00490	5.38e-04	-1.9e-04	0.	0.003416	-0.00935
16D	-0.00494	5.00e-04	-1.7e-04	0.	0.003349	-0.00947
17D	-0.01328	0.001220	-4.3e-04	0.	0.008828	-0.02545
18D	-0.01339	0.001133	-4.0e-04	0.	0.008708	-0.02576
19D	0.001841	1.06e-05	-3.7e-06	0.	-9.0e-04	0.003880
20D	0.006761	3.89e-05	-1.3e-05	0.	-0.00332	0.014250

Nodo 245

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.40e-04	4.52e-04	-7.6e-04	1.89e-04	3.25e-04	-0.00123
2S	6.66e-05	2.38e-04	-8.0e-05	1.04e-04	1.15e-04	-6.6e-04
1D	0.003229	-1.8e-04	-4.0e-04	3.96e-05	0.002010	0.005148
2D	0.003414	-1.7e-04	-4.3e-04	3.94e-05	0.002129	0.005176
3D	0.004018	-2.3e-04	-5.0e-04	4.93e-05	0.002501	0.006397
4D	0.004249	-2.2e-04	-5.3e-04	4.91e-05	0.002650	0.006432
5D	-3.6e-04	4.76e-04	-1.2e-04	-1.2e-04	-2.7e-04	0.003110
6D	-3.9e-04	4.73e-04	-1.2e-04	-1.1e-04	-2.4e-04	0.003258
7D	-4.4e-04	5.94e-04	-1.5e-04	-1.5e-04	-3.3e-04	0.003880
8D	-4.1e-04	5.90e-04	-1.5e-04	-1.4e-04	-3.0e-04	0.004064
9D	-4.3e-05	2.72e-05	-9.6e-06	1.38e-05	-3.3e-05	-3.1e-04
10D	-6.1e-05	3.82e-05	-1.3e-05	1.93e-05	-4.6e-05	-4.3e-04
11D	0.003277	-2.1e-04	-4.1e-04	-4.2e-05	0.002048	0.004921
12D	0.003479	-1.9e-04	-4.4e-04	-4.2e-05	0.002178	0.004931
13D	0.008420	-4.9e-04	-0.00105	1.04e-04	0.005243	0.013339
14D	0.008907	-4.6e-04	-0.00112	1.03e-04	0.005557	0.013409
15D	-3.9e-04	5.55e-04	-1.4e-04	-1.4e-04	-2.9e-04	0.003500
16D	-3.6e-04	5.52e-04	-1.4e-04	-1.3e-04	-2.6e-04	0.003674
17D	-9.4e-04	0.001261	-3.1e-04	-3.1e-04	-7.0e-04	0.008207
18D	-8.6e-04	0.001252	-3.2e-04	-3.0e-04	-6.3e-04	0.008599
19D	-4.2e-05	2.64e-05	-9.5e-06	1.30e-05	-3.1e-05	-2.9e-04
20D	-1.5e-04	9.69e-05	-3.5e-05	4.79e-05	-1.2e-04	-0.00107

Nodo 246

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.68e-04	-2.0e-05	-5.7e-04	3.01e-05	6.90e-05	0.020470
2S	1.35e-04	-2.2e-05	-3.0e-05	8.85e-06	4.43e-05	0.009163
1D	0.003786	-4.3e-04	1.89e-04	1.00e-04	0.002048	0.037224
2D	0.004020	-4.8e-04	2.13e-04	1.11e-04	0.002111	0.037188
3D	0.004711	-5.3e-04	2.35e-04	1.24e-04	0.002549	0.046202
4D	0.005003	-5.9e-04	2.65e-04	1.39e-04	0.002628	0.046156
5D	-6.6e-04	4.62e-04	-2.0e-04	-8.9e-05	7.94e-04	-0.01127
6D	-7.0e-04	4.29e-04	-1.8e-04	-8.2e-05	7.28e-04	-0.01142
7D	-8.2e-04	5.77e-04	-2.4e-04	-1.1e-04	9.90e-04	-0.01401
8D	-8.8e-04	5.36e-04	-2.2e-04	-1.0e-04	9.07e-04	-0.01419
9D	1.33e-04	1.10e-05	-4.4e-06	-2.8e-06	-1.4e-04	0.004206
10D	1.87e-04	1.55e-05	-6.1e-06	-3.9e-06	-1.9e-04	0.005900
11D	0.003849	-4.4e-04	1.95e-04	1.03e-04	0.002091	0.033271
12D	0.004105	-5.0e-04	2.22e-04	1.16e-04	0.002160	0.033209
13D	0.009874	-0.00111	4.93e-04	2.61e-04	0.005343	0.095870
14D	0.010490	-0.00125	5.57e-04	2.92e-04	0.005510	0.095770
15D	-6.9e-04	5.40e-04	-2.3e-04	-1.0e-04	8.54e-04	-0.01080
16D	-7.5e-04	5.02e-04	-2.1e-04	-9.5e-05	7.69e-04	-0.01096
17D	-0.00173	0.001225	-5.2e-04	-2.3e-04	0.002085	-0.02923
18D	-0.00184	0.001137	-4.8e-04	-2.2e-04	0.001907	-0.02961
19D	1.26e-04	1.06e-05	-4.4e-06	-2.6e-06	-1.3e-04	0.003941
20D	4.64e-04	3.90e-05	-1.6e-05	-9.7e-06	-4.8e-04	0.014474

Nodo 247

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	1.88e-04	2.77e-05	-5.6e-04	-2.4e-04	4.73e-05	0.002527
2S	4.85e-05	-9.9e-06	-4.8e-05	-9.5e-05	2.73e-05	0.001262
1D	0.002466	1.84e-04	2.74e-04	-4.6e-05	1.62e-04	-0.01721
2D	0.002443	2.34e-04	2.86e-04	-5.1e-05	1.68e-04	-0.01723
3D	0.003068	2.29e-04	3.41e-04	-5.7e-05	2.02e-04	-0.02135
4D	0.003039	2.91e-04	3.56e-04	-6.4e-05	2.09e-04	-0.02138
5D	2.79e-04	5.04e-04	1.52e-04	-7.5e-05	2.95e-05	0.003367
6D	3.13e-04	5.22e-04	1.49e-04	-7.6e-05	2.66e-05	0.003450
7D	3.48e-04	6.29e-04	1.89e-04	-9.4e-05	3.68e-05	0.004186
8D	3.90e-04	6.51e-04	1.86e-04	-9.5e-05	3.32e-05	0.004289
9D	-3.1e-05	-1.0e-05	-6.3e-06	-1.6e-05	3.64e-06	-0.00165
10D	-4.4e-05	-1.5e-05	-8.8e-06	-2.3e-05	5.10e-06	-0.00231
11D	0.002488	1.85e-04	2.77e-04	-4.9e-05	1.66e-04	-0.01499
12D	0.002453	2.41e-04	2.90e-04	-5.5e-05	1.72e-04	-0.01500
13D	0.006427	4.80e-04	7.15e-04	-1.2e-04	4.24e-04	-0.04423
14D	0.006362	6.11e-04	7.46e-04	-1.3e-04	4.38e-04	-0.04428
15D	3.06e-04	5.90e-04	1.77e-04	-8.6e-05	3.35e-05	0.003250
16D	3.52e-04	6.10e-04	1.74e-04	-8.7e-05	3.03e-05	0.003358
17D	7.35e-04	0.001336	4.02e-04	-2.0e-04	7.79e-05	0.008737
18D	8.25e-04	0.001383	3.94e-04	-2.0e-04	7.04e-05	0.008959
19D	-3.0e-05	-1.0e-05	-6.0e-06	-1.5e-05	-3.5e-06	-0.00154
20D	-1.1e-04	-3.7e-05	-2.2e-05	-5.7e-05	-1.3e-05	-0.00567

11D	0.002438	0.006639	7.86e-05	0.009167	2.44e-04	-0.00409
12D	0.002405	-0.00687	7.27e-05	-0.00918	2.47e-04	-0.00398
13D	0.006297	0.019084	2.06e-04	0.026301	6.30e-04	-0.01047
14D	0.006235	0.019579	1.93e-04	0.026210	6.39e-04	-0.01018
15D	2.98e-04	0.013794	1.22e-04	0.017394	-3.0e-05	0.003505
16D	3.46e-04	0.013763	1.13e-04	0.017436	-2.5e-05	0.003520
17D	7.17e-04	0.037931	2.77e-04	0.047680	-7.2e-05	0.008371
18D	8.10e-04	0.037844	2.56e-04	0.047797	-6.0e-05	0.008412
19D	-3.0e-05	-0.00574	-5.5e-06	-0.00607	-3.1e-06	0.001798
20D	-1.1e-04	-0.02107	-2.0e-05	-0.02230	-1.2e-05	0.006605

Nodo 249

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.44e-04	-0.01876	-6.6e-04	-0.00686	0.	0.040050
2S	6.41e-05	-0.00850	-6.9e-05	-0.00301	0.	0.018251
1D	0.002412	0.006683	-1.8e-04	0.013463	0.	0.005380
2D	0.002389	0.006547	-1.9e-04	0.013092	0.	0.006000
3D	0.003000	0.008294	-2.2e-04	0.016703	0.	0.006686
4D	0.002972	0.008125	-2.3e-04	0.016243	0.	0.007456
5D	2.72e-04	0.009093	1.12e-04	0.012206	0.	-0.01285
6D	-3.1e-04	0.009046	1.05e-04	0.012238	0.	-0.01276
7D	3.39e-04	0.011298	1.40e-04	0.015167	0.	-0.01597
8D	-3.8e-04	0.011240	1.32e-04	0.015207	0.	-0.01585
9D	-3.2e-05	-0.00343	-7.0e-06	-0.00433	0.	0.005078
10D	-4.4e-05	-0.00482	-9.8e-06	-0.00607	0.	0.007124
11D	0.002434	0.005929	-1.8e-04	0.011784	0.	0.005114
12D	0.002400	0.005818	-1.9e-04	0.011444	0.	0.005696
13D	0.006284	0.017201	-4.6e-04	0.034608	0.	0.013940
14D	0.006223	0.016853	-4.9e-04	0.033651	0.	0.015544
15D	2.97e-04	0.008587	1.31e-04	0.011547	0.	-0.01215
16D	-3.5e-04	0.008543	1.23e-04	0.011568	0.	-0.01206
17D	7.15e-04	0.023547	2.98e-04	0.031614	0.	-0.03329
18D	-8.1e-04	0.023426	2.80e-04	0.031696	0.	-0.03304
19D	-3.0e-05	-0.00322	-6.6e-06	-0.00406	0.	0.004755
20D	-1.1e-04	-0.01181	-2.4e-05	-0.01490	0.	0.017466

Nodo 250

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.61e-04	-1.2e-04	-6.7e-04	-2.2e-05	3.53e-05	5.67e-04
2S	6.81e-05	-5.3e-05	-6.9e-05	2.88e-07	-1.9e-05	1.59e-04
1D	0.002409	-6.0e-04	-4.7e-04	1.39e-04	1.77e-04	-0.01529
2D	0.002387	-6.5e-04	-4.8e-04	1.46e-04	1.81e-04	-0.01499
3D	0.002998	-7.5e-04	-5.9e-04	1.73e-04	2.20e-04	-0.01897
4D	0.002969	-8.1e-04	-6.0e-04	1.82e-04	2.25e-04	-0.01860
5D	2.71e-04	5.31e-04	1.37e-04	-6.8e-05	-2.1e-05	-0.00757
6D	-3.1e-04	4.93e-04	1.30e-04	-6.2e-05	-1.8e-05	-0.00752
7D	3.38e-04	6.63e-04	1.71e-04	-8.5e-05	-2.6e-05	-0.00941
8D	-3.8e-04	6.16e-04	1.62e-04	-7.8e-05	-2.2e-05	-0.00934
9D	-3.2e-05	1.61e-05	9.67e-06	-2.3e-06	-2.7e-06	0.002866
10D	-4.5e-05	2.26e-05	1.36e-05	-3.3e-06	-3.8e-06	0.004021
11D	0.002431	-6.2e-04	-4.8e-04	1.40e-04	1.80e-04	-0.01333
12D	0.002398	-6.8e-04	-4.9e-04	1.47e-04	1.84e-04	-0.01306
13D	0.006278	-0.00156	-0.00123	3.62e-04	4.61e-04	-0.03930
14D	0.006217	-0.00171	-0.00126	3.81e-04	4.72e-04	-0.03852
15D	2.96e-04	6.21e-04	1.58e-04	-8.0e-05	-2.2e-05	-0.00724
16D	-3.5e-04	5.77e-04	1.51e-04	-7.3e-05	-1.9e-05	-0.00716
17D	7.13e-04	0.001408	3.62e-04	-1.8e-04	-5.4e-05	-0.01963
18D	-8.1e-04	0.001307	3.44e-04	-1.7e-04	-4.6e-05	-0.01948
19D	-3.1e-05	1.54e-05	9.19e-06	-2.3e-06	-2.8e-06	0.002689
20D	-1.1e-04	5.64e-05	3.38e-05	-8.3e-06	-1.0e-05	0.009878

Nodo 251

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00455	3.44e-05	-5.7e-04	0.	0.005662	0.030331
2S	-0.00215	-7.5e-06	-5.2e-05	0.	0.002699	0.014002
1D	0.008060	1.82e-04	2.46e-04	0.	-0.00941	-0.02646
2D	0.008033	2.31e-04	2.56e-04	0.	-0.00938	-0.02625
3D	0.010001	2.26e-04	3.06e-04	0.	-0.01167	-0.03283
4D	0.009968	2.88e-04	3.19e-04	0.	-0.01163	-0.03256
5D	-6.4e-04	5.03e-04	1.34e-04	0.	0.001409	-0.00179
6D	-6.9e-04	5.21e-04	1.32e-04	0.	0.001431	-0.00201
7D	-8.0e-04	6.28e-04	1.68e-04	0.	0.001752	-0.00222
8D	-8.6e-04	6.50e-04	1.65e-04	0.	0.001779	-0.00251
9D	-5.0e-04	-1.0e-05	-6.4e-06	0.	8.33e-04	0.002431
10D	-7.1e-04	-1.4e-05	-9.0e-06	0.	0.001169	0.003410
11D	0.007106	1.83e-04	2.49e-04	0.	-0.00817	-0.02290
12D	0.007082	2.39e-04	2.60e-04	0.	-0.00815	-0.02271
13D	0.020732	4.73e-04	6.40e-04	0.	-0.02417	-0.06796
14D	0.020662	6.05e-04	6.69e-04	0.	-0.02409	-0.06741
15D	6.46e-04	5.89e-04	1.57e-04	0.	0.001351	-0.00178
16D	-7.1e-04	6.09e-04	1.54e-04	0.	0.001382	-0.00207
17D	-0.00168	0.001334	3.56e-04	0.	0.003655	-0.00465
18D	-0.00179	0.001380	3.50e-04	0.	0.003713	-0.00526
19D	-4.7e-04	-9.8e-06	-6.1e-06	0.	7.81e-04	0.002277
20D	-0.00173	-3.6e-05	-2.3e-05	0.	0.002868	0.008362

Nodo 252

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.004314	-1.2e-04	-6.8e-04	0.	-2.4e-04	-0.02864
2S	0.001961	-5.2e-05	-7.2e-05	0.	-2.3e-04	-0.01327

1D	0.006977	-6.0e-04	-4.3e-04	0.	-0.00804	-0.02167
2D	0.006887	-6.5e-04	-4.4e-04	0.	-0.00789	-0.02144
3D	0.008658	-7.4e-04	-5.3e-04	0.	-0.00997	-0.02688
4D	0.008545	-8.1e-04	-5.5e-04	0.	-0.00979	-0.02660
5D	0.001583	5.30e-04	1.23e-04	0.	-0.00358	-0.00437
6D	0.001593	4.92e-04	1.18e-04	0.	-0.00356	-0.00444
7D	0.001967	6.62e-04	1.54e-04	0.	-0.00444	-0.00543
8D	0.001979	6.15e-04	1.47e-04	0.	-0.00442	-0.00552
9D	7.46e-04	1.59e-05	9.63e-06	0.	0.001457	-0.00284
10D	0.001047	2.23e-05	1.35e-05	0.	0.002044	-0.00398
11D	0.006150	-6.1e-04	-4.4e-04	0.	-0.00701	-0.01881
12D	0.006060	-6.8e-04	-4.5e-04	0.	-0.00688	-0.01861
13D	0.017946	-0.00156	-0.00112	0.	-0.02066	-0.05566
14D	0.017710	-0.00171	-0.00115	0.	-0.02028	-0.05508
15D	0.001485	6.20e-04	1.43e-04	0.	-0.00337	-0.00409
16D	0.001494	5.76e-04	1.36e-04	0.	-0.00334	-0.00415
17D	0.004098	0.001406	3.26e-04	0.	-0.00926	-0.01131
18D	0.004122	0.001305	3.12e-04	0.	-0.00920	-0.01149
19D	6.99e-04	1.52e-05	9.14e-06	0.	0.001366	-0.00266
20D	0.002569	5.58e-05	3.36e-05	0.	0.005018	-0.00978

Nodo 253

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.01434	4.02e-05	-5.9e-04	-3.7e-05	0.005530	0.037603
2S	-0.00672	-5.5e-06	-5.5e-05	-5.9e-06	0.002647	0.017703
1D	0.016430	1.80e-04	2.21e-04	-6.8e-05	-0.01929	-0.03263
2D	0.016335	2.30e-04	2.31e-04	-7.4e-05	-0.01932	-0.03236
3D	0.020381	2.24e-04	2.75e-04	-8.5e-05	-0.02393	-0.04047
4D	0.020263	2.86e-04	2.87e-04	-9.2e-05	-0.02397	-0.04014
5D	9.35e-04	5.02e-04	1.18e-04	-7.4e-05	0.002290	-0.00189
6D	9.78e-04	5.20e-04	1.16e-04	-7.6e-05	0.002361	-0.00213
7D	0.001163	6.27e-04	1.48e-04	-9.2e-05	0.002846	-0.00235
8D	0.001216	6.49e-04	1.45e-04	-9.5e-05	0.002934	-0.00265
9D	-0.00127	-9.9e-06	-6.5e-06	1.29e-06	0.001643	0.003139
10D	-0.00178	-1.4e-05	-9.1e-06	1.81e-06	0.002305	0.004403
11D	0.014268	1.81e-04	2.24e-04	-6.7e-05	-0.01671	-0.02812
12D	0.014188	2.37e-04	2.35e-04	-7.3e-05	-0.01674	-0.02789
13D	0.042206	4.68e-04	5.75e-04	-1.8e-04	-0.04955	-0.08377
14D	0.041962	6.00e-04	6.02e-04	-1.9e-04	-0.04962	-0.08308
15D	9.24e-04	5.88e-04	1.38e-04	-8.7e-05	0.002162	-0.00186
16D	9.79e-04	6.08e-04	1.35e-04	-8.9e-05	0.002241	-0.00215
17D	0.002432	0.001332	3.14e-04	-2.0e-04	0.005930	-0.00491
18D	0.002546	0.001378	3.07e-04	-2.0e-04	0.006116	-0.00556
19D	-0.00119	-9.5e-06	-6.2e-06	1.27e-06	0.001539	0.002940
20D	-0.00437	-3.5e-05	-2.3e-05	4.67e-06	0.005653	0.010797

Nodo 254

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.013588	-1.1e-04	-6.9e-04	-1.1e-05	-0.00322	-0.03572
2S	0.006311	-5.0e-05	-7.4e-05	2.23e-06	-0.00163	-0.01692
1D	0.013843	-6.0e-04	-3.9e-04	1.41e-04	-0.01689	-0.02688
2D	0.013682	-6.5e-04	-3.9e-04	1.49e-04	-0.01666	-0.02665
3D	0.017172	-7.4e-04	-4.8e-04	1.76e-04	-0.02095	-0.03335
4D	0.016972	-8.1e-04	-4.9e-04	1.85e-04	-0.02067	-0.03306
5D	0.002597	5.30e-04	1.10e-04	-7.2e-05	-0.00499	0.004557
6D	0.002630	4.92e-04	1.06e-04	-6.5e-05	-0.00497	0.004574
7D	0.003226	6.61e-04	1.38e-04	-8.9e-05	-0.00620	0.005662
8D	0.003267	6.14e-04	1.32e-04	-8.2e-05	-0.00617	0.005683
9D	0.001553	1.57e-05	9.56e-06	-2.2e-06	0.002257	-0.00338
10D	0.002178	2.20e-05	1.34e-05	-3.0e-06	0.003166	-0.00475
11D	0.012039	-6.1e-04	-3.9e-04	1.42e-04	-0.01463	-0.02324
12D	0.011888	-6.7e-04	-4.0e-04	1.51e-04	-0.01444	-0.02304
13D	0.035564	-0.00156	-0.00100	3.68e-04	-0.04338	-0.06904
14D	0.035148	-0.00170	-0.00103	3.88e-04	-0.04280	-0.06844
15D	0.002417	6.19e-04	1.27e-04	-8.4e-05	-0.00464	0.004301
16D	0.002448	5.75e-04	1.22e-04	-7.6e-05	-0.00461	0.004306
17D	0.006715	0.001404	2.92e-04	-1.9e-04	-0.01291	0.011800
18D	0.006800	0.001304	2.80e-04	-1.7e-04	-0.01284	0.001840
19D	0.001455	1.50e-05	9.05e-06	-2.1e-06	0.002114	-0.00317
20D	0.005345	5.50e-05	3.32e-05	-7.7e-06	0.007764	-0.01164

16D	0.001456	6.07e-04	1.10e-04	0.	0.003292	0.002232
17D	0.003759	0.001328	2.56e-04	0.	0.008761	0.004857
18D	0.003955	0.001375	2.50e-04	0.	0.009126	0.005664
19D	-0.00256	-9.3e-06	-6.4e-06	0.	0.003001	0.003277
20D	-0.00940	-3.4e-05	-2.4e-05	0.	0.011024	0.012035

Nodo 256

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.030049	-1.1e-04	-7.1e-04	0.	-0.00739	-0.03823
2S	0.014171	-4.7e-05	-7.7e-05	0.	-0.00295	-0.01838
1D	0.026097	-5.9e-04	-3.2e-04	0.	-0.03352	-0.02869
2D	0.025838	-6.5e-04	-3.3e-04	0.	-0.03321	-0.02847
3D	0.032371	-7.3e-04	-4.0e-04	0.	-0.04158	-0.03559
4D	0.032049	-8.0e-04	-4.1e-04	0.	-0.04120	-0.03531
5D	-0.00394	5.29e-04	9.18e-05	0.	-0.00726	0.004283
6D	-0.00398	4.91e-04	8.84e-05	0.	-0.00719	0.004292
7D	-0.00489	6.60e-04	1.15e-04	0.	-0.00902	0.005321
8D	-0.00494	6.13e-04	1.10e-04	0.	-0.00894	0.005333
9D	0.002978	1.53e-05	-9.4e-06	0.	0.003653	-0.00370
10D	0.004177	2.15e-05	-1.3e-05	0.	0.005124	-0.00519
11D	0.022549	-6.1e-04	-3.3e-04	0.	-0.02892	-0.02462
12D	0.022317	-6.7e-04	-3.4e-04	0.	-0.02866	-0.02443
13D	0.067011	-0.00154	-8.4e-04	0.	-0.08607	-0.07363
14D	0.066343	-0.00169	-8.6e-04	0.	-0.08527	-0.07306
15D	-0.00366	6.18e-04	1.06e-04	0.	-0.00673	0.004041
16D	-0.00370	5.74e-04	1.02e-04	0.	-0.00667	0.004060
17D	-0.01018	0.001401	2.43e-04	0.	-0.01877	0.011089
18D	-0.01029	0.001301	2.34e-04	0.	-0.01860	0.011115
19D	0.002789	1.46e-05	-8.9e-06	0.	0.003423	-0.00347
20D	0.010245	5.38e-05	-3.3e-05	0.	0.012573	-0.01273

Nodo 257

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.04711	5.18e-05	-6.4e-04	0.	0.019469	0.032928
2S	-0.02222	-1.2e-06	-6.5e-05	0.	0.008090	0.015184
1D	0.046024	1.68e-04	1.63e-04	0.	-0.05749	-0.03177
2D	0.045746	2.19e-04	1.71e-04	0.	-0.05778	-0.03169
3D	0.057084	2.10e-04	2.02e-04	0.	-0.07131	-0.03940
4D	0.056738	2.72e-04	2.12e-04	0.	-0.07167	-0.03931
5D	0.001836	5.00e-04	7.65e-05	0.	0.003871	0.001639
6D	-0.00198	5.17e-04	7.46e-05	0.	0.004072	-0.00185
7D	0.002280	6.24e-04	9.55e-05	0.	0.004808	0.002038
8D	-0.00246	6.46e-04	9.31e-05	0.	0.005058	-0.00230
9D	-0.00421	-9.5e-06	-7.1e-06	0.	0.004664	0.003183
10D	-0.00591	-1.3e-05	-9.9e-06	0.	0.006542	0.004465
11D	0.039557	1.70e-04	1.66e-04	0.	-0.04942	-0.02731
12D	0.039328	2.27e-04	1.75e-04	0.	-0.04970	-0.02724
13D	0.118128	4.39e-04	4.24e-04	0.	-0.14756	-0.08154
14D	0.117416	5.71e-04	4.46e-04	0.	-0.14832	-0.08134
15D	0.001704	5.85e-04	8.91e-05	0.	0.003610	0.001640
16D	-0.00185	6.05e-04	8.68e-05	0.	0.003786	-0.00189
17D	0.004744	0.001325	2.03e-04	0.	0.010010	0.004266
18D	-0.00512	0.001372	1.98e-04	0.	0.010528	-0.00483
19D	-0.00394	-9.1e-06	-6.7e-06	0.	0.004371	0.002980
20D	-0.01449	-3.4e-05	-2.5e-05	0.	0.016056	0.010947

Nodo 258

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.045709	-1.0e-04	-7.2e-04	0.	-0.01521	-0.03213
2S	0.021561	-4.6e-05	-8.0e-05	0.	-0.00617	-0.01482
1D	0.038104	-5.8e-04	-2.6e-04	0.	-0.04976	-0.02660
2D	0.037779	-6.4e-04	-2.7e-04	0.	-0.04940	-0.02642
3D	0.047260	-7.3e-04	-3.3e-04	0.	-0.06172	-0.03299
4D	0.046856	-8.0e-04	-3.4e-04	0.	-0.06126	-0.03276
5D	-0.00479	5.28e-04	7.44e-05	0.	0.008314	0.003655
6D	-0.00482	4.90e-04	7.20e-05	0.	0.008235	0.003670
7D	-0.00594	6.59e-04	9.29e-05	0.	0.010327	0.004543
8D	-0.00599	6.12e-04	8.99e-05	0.	0.010229	0.004561
9D	0.004369	1.51e-05	-9.3e-06	0.	-0.00481	-0.00341
10D	0.006130	2.12e-05	-1.3e-05	0.	-0.00674	-0.00478
11D	0.032756	-6.0e-04	-2.7e-04	0.	-0.04275	-0.02280
12D	0.032474	-6.6e-04	-2.8e-04	0.	-0.04245	-0.02263
13D	0.097800	-0.00152	-6.9e-04	0.	-0.12772	-0.06826
14D	0.096963	-0.00167	-7.1e-04	0.	-0.12678	-0.06778
15D	-0.00444	6.17e-04	8.57e-05	0.	0.007703	0.003497
16D	-0.00447	5.73e-04	8.32e-05	0.	0.007627	0.003497
17D	-0.01237	0.001399	1.97e-04	0.	0.021490	0.009476
18D	-0.01246	0.001299	1.91e-04	0.	0.021285	0.009511
19D	0.004092	1.44e-05	-8.8e-06	0.	-0.00451	-0.00319
20D	0.015030	5.30e-05	-3.2e-05	0.	-0.01655	-0.01173

Nodo 259

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.05988	5.47e-05	-6.7e-04	0.	0.032018	0.024464
2S	-0.02798	-1.1e-07	-7.1e-05	0.	0.014488	0.010672
1D	0.058141	1.60e-04	1.42e-04	0.	-0.07378	-0.02499
2D	0.057892	2.10e-04	1.49e-04	0.	-0.07408	-0.02513
3D	0.072110	1.99e-04	1.76e-04	0.	-0.09151	-0.03100
4D	0.071801	2.62e-04	1.85e-04	0.	-0.09188	-0.03117
5D	0.002013	4.99e-04	5.84e-05	0.	0.003948	0.002006

6D	0.002201	5.16e-04	5.67e-05	0.	0.004168	0.002184
7D	0.002499	6.23e-04	7.28e-05	0.	0.004903	0.002496
8D	0.002732	6.45e-04	7.07e-05	0.	0.005177	0.002718
9D	-0.00547	-9.4e-06	-7.5e-06	0.	0.006024	0.002519
10D	-0.00767	-1.3e-05	-1.1e-05	0.	0.008451	0.003533
11D	0.049870	1.61e-04	1.46e-04	0.	-0.06330	-0.02168
12D	0.049671	2.19e-04	1.54e-04	0.	-0.06358	-0.02179
13D	0.149201	4.17e-04	3.70e-04	0.	-0.18934	-0.06418
14D	0.148566	5.50e-04	3.89e-04	0.	-0.19011	-0.06454
15D	0.001805	5.84e-04	6.77e-05	0.	0.003636	0.002034
16D	-0.00199	6.04e-04	6.56e-05	0.	0.003838	-0.00225
17D	0.005186	0.001322	1.55e-04	0.	0.010197	0.005230
18D	0.005675	0.001369	1.50e-04	0.	0.010766	0.005703
19D	-0.00512	-9.1e-06	-7.1e-06	0.	0.005642	0.002362
20D	-0.01880	-3.3e-05	-2.6e-05	0.	0.020722	0.008674

Nodo 260

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.057988	-9.7e-05	-7.3e-04	0.	-0.02874	-0.02304
2S	0.027086	-4.5e-05	-8.3e-05	0.	-0.01302	-0.01000
1D	0.048513	-5.8e-04	-2.1e-04	0.	-0.06394	-0.02321
2D	0.048155	-6.3e-04	-2.2e-04	0.	-0.06345	-0.02306
3D	0.060166	-7.2e-04	-2.6e-04	0.	-0.07930	-0.02879
4D	0.059722	-7.9e-04	-2.7e-04	0.	-0.07869	-0.02861
5D	-0.00484	5.27e-04	5.80e-05	0.	0.007832	0.003883
6D	-0.00487	4.89e-04	5.66e-05	0.	0.007809	0.003970
7D	-0.00601	6.58e-04	7.24e-05	0.	0.009728	0.004825
8D	-0.00605	6.11e-04	7.06e-05	0.	0.009699	0.004933
9D	0.005526	1.49e-05	-9.4e-06	0.	-0.00586	-0.00305
10D	0.007752	2.09e-05	-1.3e-05	0.	-0.00821	-0.00428
11D	0.041546	-5.9e-04	-2.2e-04	0.	-0.05477	-0.02012
12D	0.041238	-6.5e-04	-2.2e-04	0.	-0.05435	-0.01996
13D	0.124475	-0.00150	-5.5e-04	0.	-0.16406	-0.05961
14D	0.123556	-0.00165	-5.7e-04	0.	-0.16279	-0.05923
15D	-0.00447	6.16e-04	6.67e-05	0.	0.007241	-0.00370
16D	-0.00450	5.73e-04	6.52e-05	0.	0.007215	0.003785
17D	-0.01250	0.001397	1.54e-04	0.	0.020240	0.010062
18D	-0.01259	0.001297	1.50e-04	0.	0.020179	0.010289
19D	0.005174	1.42e-05	-8.8e-06	0.	-0.00549	-0.00286
20D	0.019004	5.23e-05	-3.2e-05	0.	-0.02015	-0.01050

Nodo 261

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.06925	5.96e-05	-6.9e-04	-2.1e-05	0.042178	0.017617
2S	-0.03216	1.95e-06	-7.5e-05	-1.9e-06	0.019658	0.008120
1D	0.068184	1.51e-04	1.27e-04	-3.8e-05	-0.08659	-0.02317
2D	0.068042	2.02e-04	1.34e-04	-4.5e-05	-0.08692	-0.02342
3D	0.084564	1.88e-04	1.59e-04	-4.7e-05	-0.10739	-0.02875
4D	0.084388	2.51e-04	1.67e-04	-5.6e-05	-0.10780	-0.02906
5D	0.002271	4.98e-04	4.21e-05	-7.4e-05	0.003658	-0.00224
6D	0.002486	5.16e-04	4.06e-05	-7.6e-05	0.003888	-0.00249
7D	0.002819	6.21e-04	5.25e-05	-9.2e-05	0.004542	-0.00278
8D	0.003085	6.44e-04	5.07e-05	-9.5e-05	0.004827	-0.00310
9D	-0.00649	-9.2e-06	-7.8e-06	1.50e-06	0.006998	0.002172
10D	-0.00910	-1.3e-05	-1.1e-05	2.10e-06	0.009817	0.003047
11D	0.058445	1.52e-04	1.31e-04	-3.7e-05	-0.07421	-0.02025
12D	0.058341	2.10e-04	1.39e-04	-4.5e-05	-0.07453	-0.02046
13D	0.174963	3.93e-04	3.33e-04	-9.8e-05	-0.22218	-0.05956
14D	0.174603	5.28e-04	3.50e-04	-1.2e-04	-0.22305	-0.06021
15D	0.002007	5.83e-04	4.84e-05	-8.7e-05	0.003307	-0.00225
16D	0.002214	6.03e-04	4.66e-05	-8.9e-05	0.003526	-0.00254
17D	0.005583	0.001320	1.11e-04	-2.0e-04	0.009433	-0.00583
18D	0.006400	0.001367	1.07e-04	-2.0e-04	0.010028	-0.00651
19D	-0.00607	-8.9e-06	-7.4e-06	1.44e-06	0.006552	0.002041
20D	-0.02231	-3.3e-05	-2.7e-05	5.28e-06	0.024065	0.007496

Nodo 262

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.067114	-9.1e-05	-7.4e-04	2.20e-06	-0.04012	-0.01797
2S	0.031152	-4.2e-05	-8.4e-05	4.75e-06	-0.01879	-0.00828
1D	0.058014	-5.7e-04	-1.6e-04	1.34e-04	-0.07544	-0.02379
2D	0.057620	-6.2e-04	-1.7e-04	1.43e-04	-0.07484	-0.02363
3D	0.071948	-7.1e-04	-2.0e-04	1.66e-04	-0.09356	-0.02951
4D	0.071458	-7.8e-04	-2.1e-04	1.78e-04	-0.09281	-0.02931
5D	0.004297	5.27e-04	4.27e-05	-7.6e-05	-0.00621	-0.00551
6D	0.004356	4.89e-04	4.20e-05	-7.0e-05	-0.00622	-0.00545
7D	0.005336	6.58e-04	5.33e-05	-9.4e-05	-0.00771	-0.00685
8D	0.005409	6.11e-04	5.24e-05	-8.7e-05	-0.00772	-0.00678
9D	0.006534	1.46e-05	-9.3e-06	-2.4e-06	-0.00678	0.003047
10D	0.009166	2.04e-05	-1.3e-05	-3.4e-06	-0.00951	0.004274
11D	0.049595	-5.8e-04	-1.7e-04	1.36e-04	-0.06452	-0.02071
12D	0.049250	-6.5e-04	-1.7e-04	1.46e-04	-0.06400	-0.02056
13D	0.148830	-0.00148	-3.4e-04	3.49e-04	-0.19354	-0.06112
14D	0.147816	-0.00163	-4.4e-04	3.74e-04	-0.19200	-0.06071
15D	0.003932	6.16e-04	4.88e-05	-8.8e-05	-0.00572	-0.00526
16D	0.003982	5.72e-04	4.82e-05	-8.1e-05	-0.00572	-0.00521
17D	0.011093	0.001396	1.13e-04	-2.0e-04	-0.01604	-0.01428
18D	0.011244	0.001296	1.11e-04	-1.8e-04	-0.01606	-0.01414
19D	0.006117	1.40e-05	-8.7e-06	-2.3e-06	-0.00635	0.002861
20D	0.022469	5.13e-05	-3.2e-05	-6.8e-06	-0.02332	0.010509

Nodo 263						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.07564	6.40e-05	-7.0e-04	0.	0.043905	0.011096
2S	-0.03524	3.85e-06	-7.6e-05	0.	0.019984	0.005717
1D	0.076662	1.41e-04	1.19e-04	0.	-0.09860	-0.01758
2D	0.076666	1.92e-04	1.25e-04	0.	-0.09928	-0.01782
3D	0.095079	1.75e-04	1.48e-04	0.	-0.12229	-0.02182
4D	0.095085	2.39e-04	1.55e-04	0.	-0.12314	-0.02212
5D	0.002733	4.97e-04	2.83e-05	0.	0.003901	0.002090
6D	0.003003	5.15e-04	2.71e-05	0.	0.004181	0.002403
7D	0.003392	6.20e-04	3.53e-05	0.	0.004843	0.002599
8D	0.003727	6.43e-04	3.38e-05	0.	0.005191	0.002989
9D	-0.00730	-9.0e-06	-7.7e-06	0.	0.007970	0.001657
10D	-0.01024	-1.3e-05	-1.1e-05	0.	0.011180	0.002325
11D	0.065729	1.43e-04	1.23e-04	0.	-0.08453	-0.01554
12D	0.065755	2.01e-04	1.30e-04	0.	-0.08513	-0.01570
13D	0.196721	3.68e-04	3.12e-04	0.	-0.25302	-0.04524
14D	0.196739	5.03e-04	3.26e-04	0.	-0.25478	-0.04584
15D	0.002446	5.82e-04	3.18e-05	0.	0.003542	0.002054
16D	0.002700	6.03e-04	3.02e-05	0.	0.003799	0.002408
17D	0.007039	0.001318	7.47e-05	0.	0.010061	0.005432
18D	0.007737	0.001365	7.14e-05	0.	0.010784	0.006257
19D	-0.00683	-8.7e-06	-7.3e-06	0.	0.007465	0.001563
20D	-0.02509	-3.2e-05	-2.7e-05	0.	0.027418	0.005742

Nodo 264						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.074030	-8.6e-05	-7.4e-04	0.	-0.04087	-0.01309
2S	0.034476	-4.0e-05	-8.4e-05	0.	-0.01864	-0.00665
1D	0.067022	-5.6e-04	-1.2e-04	0.	-0.08839	-0.02088
2D	0.066573	-6.2e-04	-1.3e-04	0.	-0.08784	-0.02073
3D	0.083118	-7.0e-04	-1.5e-04	0.	-0.10962	-0.02591
4D	0.082561	-7.7e-04	-1.6e-04	0.	-0.10894	-0.02572
5D	-0.00412	5.27e-04	2.91e-05	0.	-0.00505	-0.00630
6D	-0.00414	4.89e-04	2.90e-05	0.	-0.00500	-0.00611
7D	-0.00512	6.58e-04	3.63e-05	0.	-0.00627	-0.00783
8D	-0.00514	6.10e-04	3.62e-05	0.	-0.00621	-0.00759
9D	0.007462	1.43e-05	-8.9e-06	0.	-0.00796	0.002506
10D	0.010468	2.00e-05	-1.2e-05	0.	-0.01117	0.003515
11D	0.057284	-5.8e-04	-1.3e-04	0.	-0.07556	-0.01834
12D	0.056887	-6.4e-04	-1.3e-04	0.	-0.07509	-0.01818
13D	0.171935	-0.00146	-3.2e-04	0.	-0.22675	-0.05369
14D	0.170779	-0.00161	-3.3e-04	0.	-0.22536	-0.05330
15D	-0.00377	6.15e-04	3.27e-05	0.	-0.00464	-0.00599
16D	-0.00378	5.72e-04	3.29e-05	0.	-0.00460	-0.00581
17D	-0.01065	0.001396	7.67e-05	0.	-0.01303	-0.01632
18D	-0.01068	0.001296	7.67e-05	0.	-0.01292	-0.01583
19D	0.006987	1.37e-05	-8.4e-06	0.	-0.00746	0.002359
20D	0.025665	5.02e-05	-3.1e-05	0.	-0.02739	0.008664

Nodo 265						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.07817	6.47e-05	-7.1e-04	0.	0.042858	2.90e-04
2S	-0.03654	4.20e-06	-7.6e-05	0.	0.018943	1.40e-04
1D	0.080719	1.30e-04	1.17e-04	0.	-0.10350	-0.00254
2D	0.080920	1.82e-04	1.22e-04	0.	-0.10450	-0.00286
3D	0.100111	1.62e-04	1.46e-04	0.	-0.12837	-0.00316
4D	0.100361	2.26e-04	1.52e-04	0.	-0.12960	-0.00355
5D	0.003102	4.96e-04	1.88e-05	0.	0.003736	0.001846
6D	0.003420	5.15e-04	1.80e-05	0.	0.004058	0.002052
7D	0.003850	6.20e-04	2.34e-05	0.	0.004637	0.002298
8D	0.004245	6.43e-04	2.25e-05	0.	0.005037	0.002556
9D	-0.00767	-9.0e-06	-7.4e-06	0.	0.008253	-4.4e-04
10D	-0.01076	-1.3e-05	-1.0e-05	0.	0.011578	-6.1e-04
11D	0.069238	1.32e-04	1.22e-04	0.	-0.08876	-0.00244
12D	0.069431	1.90e-04	1.27e-04	0.	-0.08963	-0.00266
13D	0.207140	3.39e-04	3.07e-04	0.	-0.26560	-0.00659
14D	0.207661	4.75e-04	3.20e-04	0.	-0.26816	-0.00739
15D	0.002792	5.81e-04	1.99e-05	0.	0.003362	0.001904
16D	0.003091	6.02e-04	1.88e-05	0.	0.003664	0.002165
17D	0.007994	0.001316	4.92e-05	0.	0.009628	0.004823
18D	0.008817	0.001364	4.72e-05	0.	0.010460	0.005375
19D	-0.00718	-8.7e-06	-7.0e-06	0.	0.007733	-4.1e-04
20D	-0.02637	-3.2e-05	-2.6e-05	0.	0.028405	-0.00151

Nodo 266						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.077277	-8.4e-05	-7.4e-04	0.	-0.03936	-0.00150
2S	0.036107	-4.0e-05	-8.2e-05	0.	-0.01740	-6.8e-04
1D	0.073128	-5.5e-04	-8.7e-05	0.	-0.09605	-0.01061
2D	0.072681	-6.1e-04	-8.8e-05	0.	-0.09563	-0.01072
3D	0.090691	-6.9e-04	-1.1e-04	0.	-0.11912	-0.01317
4D	0.090137	-7.6e-04	-1.1e-04	0.	-0.11860	-0.01330
5D	-0.00470	5.27e-04	1.72e-05	0.	0.004028	-0.00570
6D	-0.00458	4.89e-04	1.77e-05	0.	0.004035	-0.00568
7D	-0.00584	6.58e-04	2.14e-05	0.	0.005004	-0.00708
8D	-0.00569	6.10e-04	2.20e-05	0.	0.005012	-0.00706
9D	0.007998	1.41e-05	-8.4e-06	0.	-0.00861	0.001247
10D	0.011220	1.98e-05	-1.2e-05	0.	-0.01208	0.001749

11D	0.062532	-5.7e-04	-9.1e-05	0.	-0.08215	-0.00960
12D	0.062131	-6.3e-04	-9.3e-05	0.	-0.08178	-0.00967
13D	0.187606	-0.00144	-2.3e-04	0.	-0.24642	-0.02735
14D	0.186456	-0.00159	-2.3e-04	0.	-0.24533	-0.02762
15D	-0.00437	6.16e-04	1.85e-05	0.	0.003744	-0.00542
16D	-0.00425	5.72e-04	1.94e-05	0.	0.003745	-0.00542
17D	-0.01216	0.001396	4.51e-05	0.	0.010414	-0.01477
18D	-0.01185	0.001296	4.64e-05	0.	0.010430	-0.01473
19D	0.007490	1.35e-05	-7.9e-06	0.	-0.00807	0.001174
20D	0.027510	4.98e-05	-2.9e-05	0.	-0.02965	0.004312

Nodo 267						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.07591	6.53e-05	-7.2e-04	0.	0.044509	-0.01044
2S	-0.03537	4.49e-06	-7.6e-05	0.	0.020264	-0.00540
1D	0.078209	1.19e-04	1.21e-04	0.	-0.10107	0.013731
2D	0.078671	1.71e-04	1.24e-04	0.	-0.10216	0.013189
3D	0.096998	1.48e-04	1.50e-04	0.	-0.12535	0.017037
4D	0.097572	2.13e-04	1.55e-04	0.	-0.12670	0.016366
5D	0.003188	4.96e-04	-1.9e-05	0.	0.003470	-0.00173
6D	0.003482	5.15e-04	-1.9e-05	0.	0.003683	0.001995
7D	0.003958	6.19e-04	-2.4e-05	0.	0.004307	-0.00216
8D	0.004323	6.42e-04	-2.4e-05	0.	0.004571	0.002485
9D	-0.00741	-9.0e-06	-7.2e-06	0.	0.008117	-0.00145
10D	-0.01040	-1.3e-05	-1.0e-05	0.	0.011387	-0.00204
11D	0.067074	1.21e-04	1.25e-04	0.	-0.08666	0.012082
12D	0.067488	1.80e-04	1.29e-04	0.	-0.08762	0.011660
13D	0.200696	3.09e-04	3.15e-04	0.	-0.25936	0.035312
14D	0.201887	4.47e-04	3.25e-04	0.	-0.26215	0.033932
15D	0.002881	5.81e-04	-2.0e-05	0.	0.003107	-0.00181
16D	0.003156	6.02e-04	-2.1e-05	0.	0.003290	0.002124
17D	0.008219	0.001315	-5.0e-05	0.	0.008938	-0.00453
18D	0.008980	0.001364	-5.1e-05	0.	0.009485	0.005230
19D	-0.00694	-8.7e-06	-6.8e-06	0.	0.007602	-0.00137
20D	-0.02549	-3.2e-05	-2.5e-05	0.	0.027924	-0.00503

Nodo 268						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.075506	-8.3e-05	-7.3e-04	0.	-0.04314	0.009449
2S	0.035145	-4.0e-05	-8.1e-05	0.	-0.01967	0.004997
1D	0.074374	-5.4e-04	-5.6e-05	0.	-0.09782	0.005047
2D	0.074052	-6.0e-04	-5.5e-05	0.	-0.09743	0.004817
3D	0.092238	-6.8e-04	-6.9e-05	0.	-0.12132	0.006274
4D	0.091838	-7.5e-04	-6.9e-05	0.	-0.12083	0.005990
5D	0.005243	5.27e-04	1.23e-05	0.	-0.00395	0.004917
6D	0.005065	4.89e-04	1.21e-05	0.	-0.00404	0.004911
7D	0.006514	6.58e-04	1.54e-05	0.	-0.00490	0.006110
8D	0.006293	6.11e-04	1.51e-05	0.	-0.00502	0.006102
9D	0.007883	1.40e-05	-8.0e-06	0.	-0.00877	0.001577
10D	0.011058	1.97e-05	-1.1e-05	0.	-0.01230	0.002213
11D	0.063617	-5.6e-04	-6.0e-05	0.	-0.08370	0.004905
12D	0.063321	-6.2e-04	-5.9e-05	0.	-0.08335	0.004729
13D	0.190809	-0.00142	-1.5e-04	0.	-0.25097	0.013101
14D	0.189978	-0.00157	-1.5e-04	0.	-0.24996	0.012518
15D	0.004933	6.16e-04	1.26e-05	0.	-0.00371	0.004650
16D	0.004763	5.73e-04	1.29e-05	0.	-0.00380	0.004629
17D	0.013571	0.001398	3.22e-05	0.	-0.01021	0.012734
18D	0.013111	0.001297	3.18e-05	0.	-0.01046	0.012714
19D	0.007381	1.34e-05	-7.5e-06	0.	-0.00821	0.001492
20D	0.027111	4.94e-05	-2.8e-05	0.	-0.03017	0.005478

Nodo 269						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.06988	6.95e-05	-7.2e-04	-6.5e-06	0.043539	-0.01665
2S	-0.03247	6.20e-06	-7.5e-05	1.03e-06	0.020291	-0.00765
1D	0.071315	1.09e-04	1.30e-04	1.05e-05	-0.09159	0.019428
2D	0.072037	1.61e-04	1.33e-04	1.27e-05	-0.09254	0.019031
3D	0.088448	1.35e-04	1.62e-04	1.31e-05	-0.11359	0.024107
4D	0.089344	2.01e-04	1.66e-04	1.57e-05	-0.11478	0.023616
5D	-0.00307	4.96e-04	-2.9e-05	-7.2e-05	0.002979	0.001711
6D	-0.00333	5.15e-04	-3.0e-05	-7.5e-05	0.003141	-0.00195
7D	-0.00381	6.19e-04	-3.6e-05	-9.0e-05	0.003697	0.002129
8D	-0.00414	6.43e-04	-3.7e-05	-9.4e-05	0.003898	-0.00243
9D	-0.00672	-8.9e-06	-6.9e-06	1.68e-06	0.007290	-0.00193
10D	-0.00943	-1.2e-05	-9.6e-06	2.35e-06	0.010227	-0.00271
11D	0.061135	1.11e-04	1.35e-04	9.67e-06	-0.07851	0.017128
12D	0.061773	1.70e-04	1.38e-04	1.24e-05	-0.07935	0.016826
13D	0.182999	2.83e-04	3.40e-04	2.72e-05	-0.23502	0.049973
14D	0.184857	4.22e-04	3.48e-04	3.29e-05	-0.23748	0.048965
15D	-0.00279	5.81e-04	-3.2e-05	-8.4e-05	0.002660	0.001729
16D	-0.00304	6.02e-04	-3.3e-05	-8.8e-05	0.002805	-0.00202
17D	-0.00793	0.001315	-7.6e-05	-1.9e-04	0.007671	0.004460
18D	-0.00860	0.001365	-7.8e-05	-2.0e-04	0.008088	-0.00510
19D	-0.00629	-8.6e-06	-6.5e-06	1.60e-06	0.006826	-0.00181
20D	-0.02312	-3.1e-05	-2.4e-05	5.89e-06	0.025072	-0.00666

1D	0.072167	-5.4e-04	-3.0e-05	1.07e-04	-0.09326	0.008469
2D	0.072048	-5.9e-04	-2.8e-05	1.19e-04	-0.09283	0.008215
3D	0.089501	-6.7e-04	-3.8e-05	1.34e-04	-0.11565	0.010513
4D	0.089353	-7.4e-04	-3.5e-05	1.48e-04	-0.11512	0.010200
5D	0.005478	5.28e-04	-2.1e-05	-7.9e-05	-0.00455	0.004871
6D	0.005271	4.90e-04	-1.9e-05	-7.3e-05	-0.00461	0.004873
7D	0.006807	6.59e-04	-2.6e-05	-9.9e-05	-0.00565	0.006052
8D	0.006549	6.12e-04	-2.4e-05	-9.1e-05	-0.00572	0.006055
9D	0.007338	1.38e-05	-7.5e-06	-2.3e-06	-0.00816	0.002016
10D	0.010294	1.93e-05	-1.1e-05	-3.2e-06	-0.01144	0.002827
11D	0.061730	-5.5e-04	-3.3e-05	1.10e-04	-0.07979	0.007636
12D	0.061609	-6.2e-04	-3.0e-05	1.23e-04	-0.07940	0.007524
13D	0.185148	-0.00140	-8.0e-05	2.80e-04	-0.23926	0.021828
14D	0.184838	-0.00155	-7.3e-05	3.11e-04	-0.23815	0.021203
15D	0.005183	6.17e-04	-2.3e-05	-9.2e-05	-0.00429	0.004599
16D	0.004980	5.73e-04	-2.2e-05	-8.5e-05	-0.00434	0.004601
17D	0.014188	0.001400	-5.5e-05	-2.1e-04	-0.01178	0.012612
18D	0.013650	0.001299	-5.0e-05	-1.9e-04	-0.01193	0.012617
19D	0.006870	1.32e-05	-7.0e-06	-2.2e-06	-0.00764	0.001900
20D	0.025233	4.86e-05	-2.6e-05	-8.2e-06	-0.02805	0.006977

Nodo 271

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.06094	7.38e-05	-7.1e-04	0.	0.034649	-0.02353
2S	-0.02849	7.91e-06	-7.1e-05	0.	0.015712	-0.01020
1D	0.062960	9.91e-05	1.46e-04	0.	-0.08138	0.021510
2D	0.063849	1.52e-04	1.49e-04	0.	-0.08219	0.021332
3D	0.078086	1.23e-04	1.82e-04	0.	-0.10093	0.026686
4D	0.079189	1.89e-04	1.85e-04	0.	-0.10194	0.026466
5D	-0.00287	4.96e-04	-4.3e-05	0.	0.002792	0.002087
6D	-0.00313	5.15e-04	-4.4e-05	0.	0.002938	-0.00221
7D	-0.00357	6.20e-04	-5.3e-05	0.	0.003466	0.002598
8D	-0.00389	6.43e-04	-5.4e-05	0.	0.003648	-0.00276
9D	-0.00582	-8.8e-06	-6.1e-06	0.	0.006458	-0.00230
10D	-0.00817	-1.2e-05	-8.6e-06	0.	0.009060	-0.00323
11D	0.053985	1.02e-04	1.50e-04	0.	-0.06981	0.018809
12D	0.054769	1.61e-04	1.53e-04	0.	-0.07050	0.018665
13D	0.161563	2.59e-04	3.82e-04	0.	-0.20884	0.055290
14D	0.163849	3.98e-04	3.88e-04	0.	-0.21092	0.054836
15D	-0.00262	5.81e-04	-4.9e-05	0.	0.002523	0.002177
16D	-0.00288	6.03e-04	-5.0e-05	0.	0.002656	-0.00232
17D	-0.00741	0.001316	-1.1e-04	0.	0.007197	0.005458
18D	-0.00809	0.001365	-1.2e-04	0.	0.007575	-0.00579
19D	-0.00545	-8.5e-06	-5.8e-06	0.	0.006049	-0.00216
20D	-0.02002	-3.1e-05	-2.1e-05	0.	0.022217	-0.00792

Nodo 272

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.064711	-7.3e-05	-7.2e-04	0.	-0.03812	0.014689
2S	0.030133	-3.6e-05	-7.4e-05	0.	-0.01729	0.006214
1D	0.068472	-5.3e-04	1.79e-05	0.	-0.08952	0.012248
2D	0.068548	-5.9e-04	1.63e-05	0.	-0.08900	0.012004
3D	0.084917	-6.6e-04	2.22e-05	0.	-0.11102	0.015203
4D	0.085012	-7.3e-04	2.03e-05	0.	-0.11038	0.014902
5D	0.005513	5.29e-04	-3.4e-05	0.	-0.00512	0.004603
6D	0.005260	4.91e-04	-3.2e-05	0.	-0.00521	0.004662
7D	0.006850	6.61e-04	-4.3e-05	0.	-0.00635	0.005720
8D	0.006535	6.13e-04	-3.9e-05	0.	-0.00647	0.005792
9D	0.006653	1.36e-05	-6.6e-06	0.	-0.00759	-0.00242
10D	0.009332	1.91e-05	-9.3e-06	0.	-0.01064	-0.00340
11D	0.058567	-5.5e-04	1.76e-05	0.	-0.07658	0.010981
12D	0.058622	-6.1e-04	1.60e-05	0.	-0.07611	0.010827
13D	0.175667	-0.00138	4.64e-05	0.	-0.22968	0.031554
14D	0.175859	-0.00154	4.24e-05	0.	-0.22833	0.030943
15D	0.005211	6.18e-04	-4.0e-05	0.	-0.00477	0.004332
16D	0.004957	5.74e-04	-3.7e-05	0.	-0.00485	0.004379
17D	0.014277	0.001402	-9.1e-05	0.	-0.01323	0.011916
18D	0.013617	0.001301	-8.4e-05	0.	-0.01347	0.012065
19D	0.006228	1.31e-05	-6.2e-06	0.	-0.00711	-0.00227
20D	0.022876	4.80e-05	-2.3e-05	0.	-0.02610	-0.00835

Nodo 273

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.04873	7.56e-05	-7.0e-04	0.	0.024202	-0.03132
2S	-0.02301	8.43e-06	-6.5e-05	0.	0.010293	-0.01441
1D	0.052369	8.99e-05	1.69e-04	0.	-0.06712	0.028998
2D	0.053250	1.43e-04	1.71e-04	0.	-0.06779	0.029240
3D	0.064952	1.12e-04	2.11e-04	0.	-0.08325	0.035968
4D	0.066045	1.78e-04	2.13e-04	0.	-0.08408	0.036268
5D	-0.00254	4.97e-04	-5.8e-05	0.	0.002586	-0.00198
6D	-0.00277	5.16e-04	-5.9e-05	0.	0.002649	0.002213
7D	-0.00315	6.20e-04	-7.2e-05	0.	0.003212	-0.00247
8D	-0.00344	6.44e-04	-7.4e-05	0.	0.003289	0.002753
9D	-0.00466	-8.8e-06	-5.2e-06	0.	0.005190	-0.00302
10D	-0.00654	-1.2e-05	-7.3e-06	0.	0.007280	-0.00424
11D	0.044966	9.24e-05	1.73e-04	0.	-0.05767	0.025001
12D	0.045738	1.52e-04	1.75e-04	0.	-0.05824	0.025220
13D	0.134401	2.35e-04	4.42e-04	0.	-0.17228	0.074447
14D	0.136665	3.75e-04	4.47e-04	0.	-0.17400	0.075070
15D	-0.00235	5.82e-04	-6.7e-05	0.	0.002406	-0.00196

16D	-0.00258	6.03e-04	-6.8e-05	0.	0.002439	0.002228
17D	-0.00656	0.001317	-1.5e-04	0.	0.006685	-0.00516
18D	-0.00716	0.001367	-1.6e-04	0.	0.006840	0.005765
19D	-0.00436	-8.5e-06	-5.0e-06	0.	0.004865	-0.00283
20D	-0.01603	-3.1e-05	-1.8e-05	0.	0.017868	-0.01039

Nodo 274

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.056479	-7.2e-05	-7.0e-04	0.	-0.02924	0.022302
2S	0.026442	-3.6e-05	-6.9e-05	0.	-0.01258	0.010370
1D	0.062167	-5.2e-04	3.02e-05	0.	-0.08055	0.020864
2D	0.062346	-5.8e-04	3.41e-05	0.	-0.08008	0.020737
3D	0.077099	-6.5e-04	3.75e-05	0.	-0.09989	0.025886
4D	0.077321	-7.3e-04	4.24e-05	0.	-0.09931	0.025728
5D	-0.00503	5.30e-04	-5.0e-05	0.	0.005504	0.005534
6D	-0.00482	4.92e-04	-4.6e-05	0.	0.005592	0.005537
7D	-0.00625	6.62e-04	-6.3e-05	0.	0.006835	0.006878
8D	-0.00598	6.14e-04	-5.8e-05	0.	0.006944	0.006882
9D	0.005795	1.36e-05	-5.6e-06	0.	-0.00659	0.003020
10D	0.008129	1.90e-05	-7.9e-06	0.	-0.00925	0.004236
11D	0.053186	-5.4e-04	2.88e-05	0.	-0.06892	0.018260
12D	0.053333	-6.1e-04	3.37e-05	0.	-0.06849	0.018147
13D	0.159494	-0.00137	7.82e-05	0.	-0.20665	0.053634
14D	0.159953	-0.00153	8.86e-05	0.	-0.20544	0.053307
15D	-0.00470	6.20e-04	-5.9e-05	0.	0.005051	0.005283
16D	-0.00447	5.76e-04	-5.4e-05	0.	0.005129	0.005294
17D	-0.01301	0.001406	-1.3e-04	0.	0.014212	0.014347
18D	-0.01245	0.001304	-1.2e-04	0.	0.014438	0.014356
19D	0.005426	1.30e-05	-5.3e-06	0.	-0.00618	0.002830
20D	0.019930	4.78e-05	-2.0e-05	0.	-0.02269	0.010396

Nodo 275

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.03363	7.77e-05	-6.8e-04	0.	0.018225	-0.03653
2S	-0.01592	9.00e-06	-5.9e-05	0.	0.007996	-0.01749
1D	0.038738	8.19e-05	1.98e-04	0.	-0.04908	0.034017
2D	0.039422	1.36e-04	2.00e-04	0.	-0.04968	0.034684
3D	0.048049	1.02e-04	2.47e-04	0.	-0.06087	0.042191
4D	0.048897	1.69e-04	2.49e-04	0.	-0.06161	0.043019
5D	-0.00192	4.97e-04	-7.5e-05	0.	-0.00219	-0.00242
6D	-0.00206	5.16e-04	-7.6e-05	0.	-0.00220	-0.00266
7D	-0.00239	6.21e-04	-9.3e-05	0.	-0.00272	-0.00301
8D	-0.00256	6.45e-04	-9.5e-05	0.	-0.00274	-0.00331
9D	-0.00324	-8.8e-06	-4.5e-06	0.	0.003814	-0.00344
10D	-0.00454	-1.2e-05	-6.4e-06	0.	0.005351	-0.00483
11D	0.033355	8.47e-05	2.02e-04	0.	-0.04227	0.029224
12D	0.033944	1.44e-04	2.04e-04	0.	-0.04277	0.029853
13D	0.099443	2.14e-04	5.17e-04	0.	-0.12599	0.087306
14D	0.101199	3.56e-04	5.22e-04	0.	-0.12752	0.089031
15D	-0.00179	5.82e-04	-8.7e-05	0.	-0.00203	-0.00241
16D	-0.00194	6.04e-04	-8.8e-05	0.	-0.00204	-0.00265
17D	-0.00497	0.001318	-2.0e-04	0.	-0.00566	-0.00630
18D	-0.00534	0.001369	-2.0e-04	0.	-0.00570	-0.00693
19D	-0.00303	-8.5e-06	-4.4e-06	0.	0.003574	-0.00323
20D	-0.01114	-3.1e-05	-1.6e-05	0.	0.013129	-0.01185

Nodo 276

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.045507	-7.0e-05	-6.8e-04	0.	-0.02674	0.026987
2S	0.021180	-3.6e-05	-6.4e-05	0.	-0.01180	0.013269
1D	0.052262	-5.2e-04	5.12e-05	0.	-0.06745	0.027857
2D	0.052419	-5.8e-04	5.84e-05	0.	-0.06717	0.028119
3D	0.064816	-6.5e-04	6.37e-05	0.	-0.08366	0.034557
4D	0.065011	-7.2e-04	7.27e-05	0.	-0.08330	0.034883
5D	-0.00433	5.32e-04	-6.8e-05	0.	0.006009	0.006319
6D	-0.00430	4.93e-04	-6.3e-05	0.	0.006068	0.006059
7D	-0.00538	6.64e-04	-8.5e-05	0.	0.007461	0.007856
8D	-0.00534	6.16e-04	-7.9e-05	0.	0.007534	0.007532
9D	0.004738	1.35e-05	-4.8e-06	0.	-0.00558	0.003270
10D	0.006646	1.90e-05	-6.7e-06	0.	0.00783	0.004587
11D	0.044758	-5.4e-04	5.07e-05	0.	-0.05779	0.024171
12D	0.044878	-6.0e-04	5.92e-05	0.	-0.05752	0.024478
13D	0.134095	-0.00136	1.33e-04	0.	-0.17308	0.071555
14D	0.134495	-0.00151	1.52e-04	0.	-0.17234	0.072246
15D	-0.00396	6.22e-04	-8.0e-05	0.	0.005489	0.006122
16D	-0.00392	5.77e-04	-7.4e-05	0.	0.005535	0.005865
17D	-0.01118	0.001410	-1.8e-04	0.	0.015510	0.016407
18D	-0.01110	0.001308	-1.7e-04	0.	0.015660	0.015729
19D	0.004436	1.30e-05	-4.6e-06	0.	-0.00522	0.003065
20D	0.016293	4.77e-05	-1.7e-05	0.	-0.01919	0.011259

6D	-0.00129	5.17e-04	-9.5e-05	-7.3e-05	-0.00160	-0.00224
7D	0.001562	6.22e-04	-1.2e-04	-8.7e-05	-0.00200	-0.00250
8D	-0.00160	6.46e-04	-1.2e-04	-9.1e-05	-0.00199	-0.00279
9D	-0.00183	-8.8e-06	-4.2e-06	1.90e-06	0.002236	-0.00294
10D	-0.00257	-1.2e-05	-5.9e-06	2.67e-06	0.003136	-0.00412
11D	0.020746	7.89e-05	2.38e-04	4.29e-05	-0.02508	0.028894
12D	0.021110	1.39e-04	2.40e-04	3.80e-05	-0.02544	0.029487
13D	0.061526	1.99e-04	6.11e-04	1.18e-04	-0.07450	0.086179
14D	0.062612	3.41e-04	6.17e-04	1.07e-04	-0.07560	0.087884
15D	0.001194	5.84e-04	-1.1e-04	-8.1e-05	-0.00155	-0.00201
16D	-0.00122	6.05e-04	-1.1e-04	-8.5e-05	-0.00154	-0.00227
17D	0.003256	0.001321	-2.5e-04	-1.8e-04	-0.00418	-0.00524
18D	-0.00334	0.001372	-2.5e-04	-1.9e-04	-0.00415	-0.00585
19D	-0.00171	8.5e-06	-4.1e-06	1.82e-06	0.002093	-0.00275
20D	-0.00630	-3.1e-05	-1.5e-05	6.67e-06	0.007689	-0.01011

Nodo 278

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.034151	-6.6e-05	-6.7e-04	1.34e-05	-0.02336	0.024027
2S	0.015630	-3.5e-05	-5.9e-05	7.13e-06	-0.01081	0.011660
1D	0.040633	-5.2e-04	7.42e-05	9.28e-05	-0.05069	0.028549
2D	0.040741	-5.8e-04	8.43e-05	1.05e-04	-0.05058	0.028793
3D	0.050397	-6.4e-04	9.23e-05	1.16e-04	-0.06287	0.035413
4D	0.050530	-7.2e-04	1.05e-04	1.31e-04	-0.06274	0.035716
5D	-0.00434	5.34e-04	-8.9e-05	-8.3e-05	0.006352	0.005161
6D	-0.00443	4.95e-04	-8.2e-05	-7.6e-05	0.006442	0.004963
7D	-0.00538	6.66e-04	-1.1e-04	-1.0e-04	0.007890	0.006417
8D	-0.00550	6.18e-04	-1.0e-04	-9.5e-05	0.008001	0.006171
9D	0.003686	1.35e-05	-4.2e-06	-2.5e-06	-0.00439	0.002873
10D	0.005170	1.89e-05	-5.8e-06	-3.6e-06	-0.00616	0.004030
11D	0.034929	-5.3e-04	7.47e-05	9.70e-05	-0.04360	0.024694
12D	0.035006	-6.0e-04	8.64e-05	1.11e-04	-0.04348	0.024972
13D	0.104291	-0.00135	1.93e-04	2.43e-04	-0.13010	0.073312
14D	0.104563	-0.00151	2.20e-04	2.76e-04	-0.12983	0.073953
15D	-0.00398	6.24e-04	-1.0e-04	-9.7e-05	0.005875	0.005028
16D	-0.00407	5.79e-04	-9.6e-05	-8.9e-05	0.005957	0.004837
17D	-0.01120	0.001415	-2.4e-04	-2.2e-04	0.016416	0.013407
18D	-0.01144	0.001312	-2.2e-04	-2.0e-04	0.016648	0.013055
19D	0.003451	1.29e-05	-4.0e-06	-2.4e-06	-0.00411	0.002693
20D	0.012677	4.75e-05	-1.5e-05	-9.0e-06	-0.01511	0.009892

Nodo 279

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	-0.00728	8.48e-05	-6.5e-04	0.	6.05e-04	-0.02430
2S	-0.00341	1.07e-05	-4.3e-05	0.	3.45e-04	-0.01127
1D	0.011028	7.22e-05	2.81e-04	0.	-0.01254	0.026030
2D	0.011253	1.26e-04	2.83e-04	0.	-0.01272	0.026527
3D	0.013685	8.99e-05	3.49e-04	0.	-0.01556	0.032289
4D	0.013964	1.58e-04	3.53e-04	0.	-0.01578	0.032905
5D	7.35e-04	4.99e-04	-1.1e-04	0.	-0.00146	0.001905
6D	7.45e-04	5.18e-04	-1.2e-04	0.	-0.00147	0.001946
7D	9.15e-04	6.23e-04	-1.4e-04	0.	-0.00182	0.002371
8D	9.27e-04	6.47e-04	-1.4e-04	0.	-0.00183	0.002423
9D	-7.0e-04	-8.8e-06	-4.2e-06	0.	8.88e-04	-0.00218
10D	-9.8e-04	-1.2e-05	-5.9e-06	0.	0.001246	-0.00306
11D	0.009746	7.52e-05	2.83e-04	0.	-0.01095	0.025539
12D	0.009960	1.35e-04	2.86e-04	0.	-0.01108	0.022958
13D	0.028373	1.89e-04	7.31e-04	0.	-0.03223	0.066852
14D	0.028953	3.32e-04	7.38e-04	0.	-0.03268	0.068125
15D	7.51e-04	5.85e-04	-1.3e-04	0.	-0.00155	0.001957
16D	7.64e-04	6.07e-04	-1.3e-04	0.	-0.00156	0.001998
17D	0.001918	0.001323	-3.0e-04	0.	-0.00383	0.004973
18D	0.001945	0.001375	-3.1e-04	0.	-0.00386	0.005081
19D	-6.5e-04	-8.5e-06	-4.2e-06	0.	8.35e-04	-0.00204
20D	-0.00240	-3.1e-05	-1.5e-05	0.	0.003069	-0.00751

Nodo 280

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.024291	-6.2e-05	-6.6e-04	0.	-0.01907	0.020270
2S	0.010927	-3.4e-05	-5.4e-05	0.	-0.00889	0.009468
1D	0.029711	-5.1e-04	1.00e-04	0.	-0.03673	0.024556
2D	0.029815	-5.7e-04	1.13e-04	0.	-0.03663	0.024672
3D	0.036856	-6.4e-04	1.25e-04	0.	-0.04557	0.030457
4D	0.036985	-7.2e-04	1.41e-04	0.	-0.04544	0.030602
5D	-0.00458	5.35e-04	-1.1e-04	0.	0.006628	-0.00282
6D	-0.00467	4.96e-04	-1.0e-04	0.	0.006722	-0.00274
7D	-0.00570	6.69e-04	-1.4e-04	0.	0.008235	-0.00350
8D	-0.00580	6.20e-04	-1.3e-04	0.	0.008352	-0.00341
9D	0.002777	1.34e-05	-3.7e-06	0.	-0.00353	0.002290
10D	0.003896	1.88e-05	-5.2e-06	0.	-0.00495	0.003212
11D	0.025778	-5.3e-04	1.02e-04	0.	-0.03188	0.021134
12D	0.025869	-6.0e-04	1.17e-04	0.	-0.03175	0.021250
13D	0.076318	-0.00134	2.61e-04	0.	-0.09436	0.063032
14D	0.076585	-0.00150	2.96e-04	0.	-0.09408	0.063334
15D	-0.00430	6.26e-04	-1.3e-04	0.	0.006236	-0.00270
16D	-0.00438	5.81e-04	-1.2e-04	0.	0.006324	-0.00262
17D	-0.01186	0.001420	-3.0e-04	0.	0.017158	-0.00731
18D	-0.01209	0.001316	-2.8e-04	0.	0.017400	-0.00711
19D	0.002602	1.29e-05	-3.7e-06	0.	-0.00330	0.002145
20D	0.009556	4.74e-05	-1.3e-05	0.	-0.01213	0.007879

Nodo 281

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.20e-04	8.71e-05	-6.1e-04	3.87e-05	-0.00113	-0.00934
2S	3.68e-05	1.09e-05	-3.1e-05	1.24e-05	-5.0e-04	-0.00421
1D	0.003434	6.96e-05	3.35e-04	4.94e-05	1.97e-04	0.013123
2D	0.003606	1.24e-04	3.39e-04	4.61e-05	2.17e-04	0.013285
3D	0.004273	8.66e-05	4.17e-04	6.14e-05	2.45e-04	0.016286
4D	0.004487	1.55e-04	4.21e-04	5.73e-05	2.71e-04	0.016486
5D	-4.0e-04	5.00e-04	-1.4e-04	-6.4e-05	-1.5e-04	0.003043
6D	-3.6e-04	5.20e-04	-1.4e-04	-6.8e-05	-1.6e-04	0.003015
7D	-5.0e-04	6.25e-04	-1.7e-04	-8.0e-05	-1.9e-04	0.003795
8D	-4.4e-04	6.49e-04	-1.7e-04	-8.5e-05	-2.0e-04	0.003761
9D	-4.3e-05	-8.8e-06	-4.9e-06	2.52e-06	-4.8e-05	-1.0e-03
10D	-6.1e-05	-1.2e-05	-6.9e-06	3.54e-06	-6.7e-05	-0.00140
11D	0.003490	7.28e-05	3.37e-04	4.67e-05	2.09e-04	0.011636
12D	0.003676	1.33e-04	3.40e-04	4.25e-05	2.30e-04	0.011744
13D	0.008954	1.82e-04	8.73e-04	1.28e-04	5.15e-04	0.033773
14D	0.009407	3.26e-04	8.82e-04	1.19e-04	5.69e-04	0.034181
15D	-4.3e-04	5.86e-04	-1.6e-04	-7.5e-05	-1.7e-04	0.003398
16D	-3.9e-04	6.08e-04	-1.6e-04	-7.9e-05	-1.8e-04	0.003361
17D	-0.00105	0.001326	-3.6e-04	-1.7e-04	-3.9e-04	0.008021
18D	-9.4e-04	0.001378	-3.6e-04	-1.8e-04	-4.2e-04	0.007948
19D	-4.2e-05	-8.5e-06	-4.8e-06	2.39e-06	-4.6e-05	-9.3e-04
20D	-1.5e-04	-3.1e-05	-1.8e-05	8.80e-06	-1.7e-04	-0.00343

Nodo 282

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.21e-04	-0.00131	-7.6e-04	-0.00836	0.	0.006044
2S	3.49e-05	-5.7e-04	-8.8e-05	-0.00405	0.	0.002853
1D	0.003427	0.003574	-6.7e-05	0.008595	0.	-0.00499
2D	0.003598	0.003622	-8.0e-05	0.008690	0.	-0.00508
3D	0.004265	0.004437	-8.4e-05	0.010667	0.	-0.00619
4D	0.004479	0.004496	-1.0e-04	0.010784	0.	-0.00631
5D	-4.0e-04	0.001352	-7.6e-05	0.003420	0.	-7.4e-04
6D	-3.6e-04	0.001379	-8.2e-05	0.002449	0.	-8.3e-04
7D	-5.0e-04	0.001686	-9.5e-05	0.003043	0.	-9.2e-04
8D	-4.4e-04	0.001720	-1.0e-04	0.003055	0.	-0.00104
9D	-4.3e-05	-2.4e-04	-6.9e-06	-6.6e-04	0.	4.61e-04
10D	-6.0e-05	-3.3e-04	-9.6e-06	-9.2e-04	0.	6.46e-04
11D	0.003484	0.003228	-6.8e-05	0.007665	0.	-0.00435
12D	0.003670	0.003265	-8.2e-05	0.007706	0.	-0.00443
13D	0.008938	0.009213	-1.7e-04	0.022130	0.	-0.01281
14D	0.009390	0.009335	-2.1e-04	0.022363	0.	-0.01306
15D	-4.3e-04	0.001510	-8.9e-05	0.002738	0.	-8.0e-04
16D	-3.9e-04	0.001540	-9.6e-05	0.002746	0.	-9.2e-04
17D	-0.00105	0.003565	-2.0e-04	0.006436	0.	-0.00193
18D	-9.4e-04	0.003637	-2.2e-04	0.006459	0.	-0.00219
19D	-4.2e-05	-2.2e-04	-6.6e-06	-6.2e-04	0.	4.32e-04
20D	-1.5e-04	-8.2e-04	-2.4e-05	-0.00230	0.	0.001588

Nodo 283

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.01e-04	4.79e-04	-9.6e-04	-0.00147	-0.00286	-0.00209
2S	2.36e-05	2.33e-04	-1.7e-04	-6.3e-04	-0.00124	-0.00109
1D	0.003429	-2.0e-04	-5.1e-04	1.42e-04	-4.3e-04	-0.00368
2D	0.003602	-1.9e-04	-5.4e-04	1.54e-04	-4.7e-04	-0.00382
3D	0.004267	-2.5e-04	-6.4e-04	1.76e-04	-5.3e-04	-0.00458
4D	0.004482	-2.4e-04	-6.8e-04	1.91e-04	-5.9e-04	-0.00475
5D	-4.0e-04	5.59e-04	6.61e-05	-1.3e-04	-1.9e-04	0.003510
6D	-3.6e-04	5.53e-04	-6.3e-05	-1.2e-04	2.08e-04	-0.00365
7D	-5.0e-04	6.98e-04	8.24e-05	-1.6e-04	-2.4e-04	0.004380
8D	-4.4e-04	6.90e-04	-7.9e-05	-1.5e-04	2.59e-04	-0.00456
9D	-4.3e-05	2.61e-05	-1.8e-05	-7.4e-05	-1.2e-04	2.07e-04
10D	-6.0e-05	3.66e-05	-2.5e-05	-1.0e-04	-1.7e-04	2.90e-04
11D	0.003487	-2.2e-04	-5.1e-04	1.33e-04	4.22e-04	-0.00365
12D	0.003674	-2.0e-04	-5.5e-04	1.43e-04	4.65e-04	-0.00381
13D	0.008943	-5.3e-04	-0.00133	3.67e-04	0.001116	-0.00958
14D	0.009397	-4.9e-04	-0.00141	3.97e-04	-0.00123	-0.00995
15D	-4.3e-04	6.54e-04	7.37e-05	-1.4e-04	2.05e-04	0.003970
16D	-3.9e-04	6.46e-04	-7.1e-05	-1.3e-04	2.27e-04	-0.00414
17D	-0.00105	0.001482	1.74e-04	-3.3e-04	-5.0e-04	0.009269
18D	-9.4e-04	0.001465	-1.7e-04	-3.2e-04	5.46e-04	-0.00965
19D	-4.1e-05	2.49e-05	-1.7e-05	-7.0e-05	-1.2e-04	2.01e-04
20D	-1.5e-04	9.15e-05	-6.3e-05	-2.6e-04	-4.2e-04	7.39e-04

11D	0.017465	-5.3e-04	1.31e-04	9.50e-05	-0.02025	0.019590
12D	0.017612	-6.0e-04	1.50e-04	1.09e-04	-0.02016	0.019626
13D	0.051011	-0.00134	3.34e-04	2.37e-04	-0.05910	0.058082
14D	0.051365	-0.00150	3.79e-04	2.69e-04	-0.05891	0.058216
15D	-0.00376	6.28e-04	-1.6e-04	-9.8e-05	0.005306	-0.00305
16D	-0.00380	5.83e-04	-1.5e-04	-8.9e-05	0.005375	-0.00313
17D	-0.01025	0.001424	-3.7e-04	-2.2e-04	0.014450	-0.00839
18D	-0.01037	0.001320	-3.4e-04	-2.0e-04	0.014633	-0.00860
19D	0.001778	1.29e-05	-3.6e-06	-2.8e-06	-0.00224	0.002015
20D	0.006532	4.74e-05	-1.3e-05	-1.0e-05	-0.00821	0.007402

Nodo 285

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	6.29e-04	4.31e-04	-8.6e-04	0.	0.001264	1.55e-04
2S	2.43e-04	2.09e-04	-1.1e-04	0.	7.47e-04	9.90e-05
1D	0.004344	-2.0e-04	-4.7e-04	0.	-0.00154	-0.00132
2D	0.004604	-1.8e-04	-5.0e-04	0.	-0.00155	-0.00139
3D	0.005405	-2.5e-04	-5.8e-04	0.	-0.00191	-0.00164
4D	0.005728	-2.3e-04	-6.2e-04	0.	-0.00193	-0.00173
5D	8.58e-04	5.58e-04	8.50e-05	0.	-0.00117	-0.00167
6D	8.73e-04	5.52e-04	-8.7e-05	0.	0.001204	-0.00163
7D	0.001070	6.97e-04	1.06e-04	0.	-0.00146	-0.00208
8D	0.001088	6.89e-04	-1.1e-04	0.	0.001502	-0.00204
9D	-7.0e-05	2.34e-05	-1.2e-05	0.	1.72e-04	-1.1e-04
10D	-9.9e-05	3.29e-05	-1.7e-05	0.	2.41e-04	-1.6e-04
11D	0.004374	-2.1e-04	-4.7e-04	0.	-0.00148	-0.00137
12D	0.004662	-2.0e-04	-5.1e-04	0.	-0.00148	-0.00145
13D	0.011318	-5.2e-04	-0.00122	0.	-0.00398	-0.00344
14D	0.012002	-4.8e-04	-0.00130	0.	-0.00402	-0.00363
15D	9.42e-04	6.53e-04	9.68e-05	0.	-0.00133	-0.00180
16D	9.63e-04	6.45e-04	-1.0e-04	0.	0.001368	-0.00176
17D	0.002258	0.001480	2.25e-04	0.	-0.00309	-0.00438
18D	0.002298	0.001463	-2.3e-04	0.	0.003180	-0.00429
19D	-6.9e-05	2.25e-05	-1.2e-05	0.	1.66e-04	-1.2e-04
20D	-2.5e-04	8.26e-05	-4.4e-05	0.	6.09e-04	-4.4e-04

Nodo 286

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	0.007531	-5.3e-05	-6.3e-04	0.	-0.00307	0.019359
2S	0.003281	-3.1e-05	-4.1e-05	0.	-0.00120	0.008729
1D	0.010701	-5.1e-04	1.61e-04	0.	-0.01214	0.020607
2D	0.010886	-5.7e-04	1.82e-04	0.	-0.01212	0.020645
3D	0.013283	-6.4e-04	2.00e-04	0.	-0.01507	0.025576
4D	0.013514	-7.1e-04	2.26e-04	0.	-0.01504	0.025622
5D	-0.00232	5.39e-04	-1.7e-04	0.	0.003862	-0.00521
6D	-0.00232	4.99e-04	-1.6e-04	0.	0.003917	-0.00526
7D	-0.00288	6.73e-04	-2.1e-04	0.	0.004801	-0.00647
8D	-0.00288	6.23e-04	-2.0e-04	0.	0.004870	-0.00654
9D	9.38e-04	1.34e-05	-3.9e-06	0.	-0.00132	0.002262
10D	0.001316	1.88e-05	-5.5e-06	0.	-0.00185	0.003173
11D	0.009638	-5.3e-04	1.66e-04	0.	-0.01086	0.018386
12D	0.009857	-6.0e-04	1.89e-04	0.	-0.01084	0.018402
13D	0.027577	-0.00134	4.20e-04	0.	-0.03127	0.053063
14D	0.028067	-0.00150	4.75e-04	0.	-0.03121	0.053155
15D	-0.00224	6.30e-04	-2.0e-04	0.	0.003736	-0.00501
16D	-0.00224	5.84e-04	-1.8e-04	0.	0.003801	-0.00506
17D	-0.00601	0.001429	-4.5e-04	0.	0.010025	-0.01351
18D	-0.00602	0.001324	-4.2e-04	0.	0.010171	-0.01365
19D	8.80e-04	1.29e-05	-4.0e-06	0.	-0.00124	0.002122
20D	0.003233	4.74e-05	-1.5e-05	0.	-0.00456	0.007794

Nodo 287

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.11e-04	4.09e-04	-7.5e-04	-6.7e-04	1.90e-04	3.81e-04
2S	1.64e-04	1.97e-04	-4.6e-05	-2.7e-04	6.37e-05	2.61e-04
1D	0.004337	-1.9e-04	-4.4e-04	1.29e-04	3.34e-04	0.002417
2D	0.004586	-1.8e-04	-4.7e-04	1.32e-04	3.49e-04	0.002362
3D	0.005397	-2.4e-04	-5.4e-04	1.60e-04	4.15e-04	0.003009
4D	0.005707	-2.3e-04	-5.8e-04	1.64e-04	4.35e-04	0.002940
5D	-5.0e-04	5.58e-04	-1.2e-04	-1.0e-04	8.56e-05	0.004688
6D	-4.5e-04	5.52e-04	-1.2e-04	-9.7e-05	8.1e-05	0.004969
7D	-6.2e-04	6.97e-04	-1.5e-04	-1.2e-04	1.07e-04	0.005842
8D	-5.6e-04	6.89e-04	-1.5e-04	-1.2e-04	1.0e-04	0.006193
9D	-6.3e-05	2.20e-05	8.68e-06	-3.2e-05	1.14e-05	2.32e-04
10D	-8.8e-05	3.09e-05	1.22e-05	-4.5e-05	1.60e-05	3.25e-04
11D	0.004403	-2.1e-04	-4.4e-04	1.22e-04	3.39e-04	0.002500
12D	0.004675	-1.9e-04	-4.8e-04	1.24e-04	3.56e-04	0.002431
13D	0.011310	-5.1e-04	-0.00114	3.34e-04	8.70e-04	0.006316
14D	0.011964	-4.7e-04	-0.00122	3.42e-04	9.11e-04	0.006169
15D	-5.4e-04	6.52e-04	-1.4e-04	-1.1e-04	9.68e-05	0.005058
16D	-4.9e-04	6.45e-04	-1.4e-04	-1.1e-04	-9.2e-05	0.005415
17D	-0.00130	0.001479	-3.1e-04	-2.6e-04	2.26e-04	0.012311
18D	-0.00119	0.001462	-3.3e-04	-2.6e-04	-2.1e-04	0.013063
19D	-6.1e-05	2.12e-05	8.91e-06	-3.0e-05	1.11e-05	2.35e-04
20D	-2.2e-04	7.78e-05	3.27e-05	-1.1e-04	4.06e-05	8.61e-04

Nodo 288

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.37e-04	0.002519	-8.1e-04	-4.4e-04	0.	0.004444
2S	1.61e-04	0.001210	-3.6e-05	1.42e-04	0.	0.002054

1D	0.004355	-0.00222	-2.5e-04	-0.00461	0.	-0.00353
2D	0.004606	-0.00223	-2.7e-04	-0.00465	0.	-0.00360
3D	0.005419	-0.00277	-3.1e-04	-0.00574	0.	-0.00439
4D	0.005731	-0.00277	-3.3e-04	-0.00578	0.	-0.00448
5D	-5.0e-04	0.007655	-1.5e-04	0.015710	0.	0.013435
6D	-4.5e-04	0.007637	-1.4e-04	0.015743	0.	0.013393
7D	-6.2e-04	0.009535	-1.8e-04	0.019568	0.	0.016733
8D	-5.7e-04	0.009512	-1.8e-04	0.019608	0.	0.016681
9D	-6.3e-05	3.62e-04	8.13e-06	8.16e-04	0.	6.42e-04
10D	-8.8e-05	5.08e-04	1.14e-05	0.001145	0.	9.00e-04
11D	0.004421	-0.00235	-2.6e-04	-0.00475	0.	-0.00372
12D	0.004695	-0.00235	-2.7e-04	-0.00479	0.	-0.00379
13D	0.011357	-0.00583	-6.6e-04	-0.01204	0.	-0.00924
14D	0.012015	-0.00583	-6.9e-04	-0.01214	0.	-0.00942
15D	-5.4e-04	0.008059	-1.7e-04	0.016555	0.	0.014149
16D	-5.0e-04	0.008043	-1.7e-04	0.016607	0.	0.014109
17D	-0.00131	0.020051	-3.9e-04	0.041153	0.	0.035190
18D	-0.00119	0.020004	-3.8e-04	0.041242	0.	0.035082
19D	-6.0e-05	3.56e-04	8.30e-06	8.12e-04	0.	6.31e-04
20D	-2.2e-04	0.001309	3.05e-05	0.002983	0.	0.002316

Nodo 289

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.98e-04	-4.0e-04	-7.9e-04	-0.01126	0.	-0.01081
2S	1.62e-04	-1.4e-04	-3.9e-05	-0.00541	0.	-0.00501
1D	0.004368	-0.00384	-4.7e-05	-0.00980	0.	-0.00901
2D	0.004619	-0.00386	-4.6e-05	-0.00993	0.	-0.00908
3D	0.005435	-0.00477	-5.8e-05	-0.01216	0.	-0.01120
4D	0.005748	-0.00480	-5.7e-05	-0.01234	0.	-0.01128
5D	-5.0e-04	0.007827	-1.8e-04	0.013343	0.	-0.01338
6D	-4.6e-04	0.007806	-1.7e-04	0.013353	0.	-0.01338
7D	-6.3e-04	0.009748	-2.2e-04	0.016617	0.	-0.01667
8D	-5.7e-04	0.009722	-2.1e-04	0.016630	0.	-0.01666
9D	-6.3e-05	-5.7e-04	6.07e-06	-0.00132	0.	-0.00102
10D	-8.8e-05	-8.0e-04	8.51e-06	-0.00185	0.	-0.00143
11D	0.004434	-0.00358	-4.8e-05	-0.00898	0.	-0.00855
12D	0.004709	-0.00360	-4.7e-05	-0.00914	0.	-0.00860
13D	0.011389	-0.00993	-1.2e-04	-0.02529	0.	-0.02334
14D	0.012051	-0.00999	-1.2e-04	-0.02565	0.	-0.02350
15D	-5.4e-04	0.008222	-2.1e-04	0.013995	0.	-0.01408
16D	-5.0e-04	0.008202	-1.9e-04	0.014009	0.	-0.01408
17D	-0.00132	0.020495	-4.7e-04	0.034934	0.	-0.03505
18D	-0.00120	0.020442	-4.4e-04	0.034961	0.	-0.03503
19D	-6.0e-05	-5.4e-04	6.21e-06	-0.00126	0.	-9.8e-04
20D	-2.2e-04	-0.00199	2.28e-05	-0.00462	0.	-0.00360

Nodo 290

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	6.39e-04	-4.8e-05	-6.3e-04	2.33e-05	7.44e-05	0.011595
2S	1.66e-04	-3.1e-05	-3.4e-05	9.76e-06	1.66e-05	0.005258
1D	0.004375	-5.1e-04	1.97e-04	8.52e-05	-4.4e-04	0.014879
2D	0.004627	-5.7e-04	2.22e-04	9.72e-05	-4.7e-04	0.014914
3D	0.005444	-6.4e-04	2.45e-04	1.06e-04	-5.4e-04	0.018472
4D	0.005758	-7.1e-04	2.77e-04	1.21e-04	-5.8e-04	0.018516
5D	-5.0e-04	5.41e-04	-2.1e-04	-8.2e-05	2.21e-04	-0.00581
6D	-4.6e-04	5.01e-04	-1.9e-04	-7.4e-05	2.43e-04	-0.00605
7D	-6.3e-04	6.75e-04	-2.6e-04	-1.0e-04	2.75e-04	-0.00723
8D	-5.7e-04	6.25e-04	-2.4e-04	-9.2e-05	3.03e-04	-0.00752
9D	-6.3e-05	1.34e-05	-4.8e-06	2.74e-06	-4.4e-05	0.001756
10D	-8.9e-05	1.89e-05	-6.7e-06	3.85e-06	-6.1e-05	0.002463
11D	0.004441	-5.3e-04	2.04e-04	9.05e-05	-4.5e-04	0.013511
12D	0.004717	-6.0e-04	2.32e-04	1.04e-04	-4.9e-04	0.013541
13D	0.011408	-0.00134	5.14e-04	2.23e-04	-0.00114	0.038374
14D	0.012071	-0.00150	5.82e-04	2.55e-04	-0.00122	0.038463
15D	-5.5e-04	6.32e-04	-2.4e-04	-9.6e-05	2.32e-04	-0.00583
16D	-5.0e-04	5.86e-04	-2.2e-04	-8.7e-05	2.61e-04	-0.00614
17D	-0.00132	0.001433	-5.5e-04	-2.2e-04	5.78e-04	-0.01514
18D	-0.00121	0.001328	-5.0e-04	-2.0e-04	6.38e-04	-0.01577
19D	-6.1e-05	1.29e-05	-4.8e-06	2.61e-06	-4.2e-05	0.001649
20D	-2.2e-04	4.75e-05	-1.8e-05	9.59e-06	-1.5e-04	0.006058

16D	3.61e-04	6.88e-04	1.76e-04	-9.4e-05	2.76e-05	5.92e-05
17D	7.83e-04	0.001509	4.06e-04	-2.1e-04	5.93e-05	1.39e-04
18D	8.46e-04	0.001559	3.99e-04	-2.2e-04	6.33e-05	1.41e-04
19D	-3.2e-05	-9.8e-06	-6.0e-06	1.08e-05	4.12e-06	6.90e-06
20D	-1.2e-04	-3.6e-05	-2.2e-05	3.96e-05	1.51e-05	2.53e-05

Nodo 292

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.47e-04	6.51e-05	-6.5e-04	-0.01647	8.63e-05	-1.4e-04
2S	6.44e-05	2.20e-06	-7.0e-05	-0.00749	2.36e-05	-5.8e-05
1D	0.002600	4.71e-05	2.39e-04	0.004590	4.05e-05	-2.2e-04
2D	0.002581	7.14e-05	2.44e-04	0.004561	5.06e-05	-2.5e-04
3D	0.003235	5.86e-05	2.97e-04	0.005696	5.05e-05	-2.7e-04
4D	0.003211	8.89e-05	3.23e-04	0.005660	6.30e-05	-3.1e-04
5D	2.96e-04	5.91e-04	1.33e-04	0.006102	2.68e-05	3.97e-05
6D	3.20e-04	5.98e-04	1.29e-04	0.006104	3.07e-05	4.86e-05
7D	3.69e-04	7.38e-04	1.67e-04	0.007582	3.35e-05	4.95e-05
8D	3.99e-04	7.46e-04	1.60e-04	0.007585	3.83e-05	6.07e-05
9D	-3.4e-05	-1.1e-05	-6.3e-06	-0.00229	3.70e-06	-7.9e-06
10D	-4.7e-05	-1.6e-05	-8.8e-06	-0.00322	5.20e-06	-1.1e-05
11D	0.002624	4.73e-05	2.39e-04	0.004058	4.39e-05	-2.3e-04
12D	0.002594	7.43e-05	2.45e-04	0.004049	5.48e-05	-2.6e-04
13D	0.006776	1.23e-04	6.21e-04	0.011810	1.07e-04	-5.8e-04
14D	0.006723	1.87e-04	6.35e-04	0.011740	1.33e-04	-6.5e-04
15D	3.24e-04	6.93e-04	1.56e-04	0.005774	3.10e-05	4.48e-05
16D	3.59e-04	6.99e-04	1.50e-04	0.005777	3.55e-05	5.60e-05
17D	7.79e-04	0.001568	3.54e-04	0.015804	7.10e-05	1.05e-04
18D	8.43e-04	0.001584	3.41e-04	0.015811	8.13e-05	1.29e-04
19D	-3.2e-05	-1.1e-05	-6.0e-06	-0.00215	5.33e-06	-7.4e-06
20D	-1.2e-04	-3.9e-05	-2.2e-05	-0.00789	1.30e-05	-2.7e-05

Nodo 293

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.39e-04	3.51e-05	-7.0e-04	-0.07622	7.40e-05	7.47e-05
2S	6.22e-05	-5.0e-06	-8.4e-05	-0.03464	4.08e-05	4.18e-05
1D	0.002625	-1.8e-04	1.81e-04	0.008431	5.96e-05	-2.5e-04
2D	0.002606	-1.7e-04	1.79e-04	0.008453	6.65e-05	-2.8e-04
3D	0.003266	-2.2e-04	2.25e-04	0.010460	7.41e-05	-3.1e-04
4D	0.003242	-2.1e-04	2.23e-04	0.010489	8.28e-05	-3.4e-04
5D	2.97e-04	6.09e-04	1.17e-04	0.012961	1.47e-05	4.76e-05
6D	3.22e-04	6.00e-04	1.10e-04	0.013028	2.20e-05	5.73e-05
7D	3.70e-04	7.61e-04	1.46e-04	0.016102	1.83e-05	5.92e-05
8D	4.02e-04	7.49e-04	1.37e-04	0.016186	2.75e-05	7.15e-05
9D	-3.4e-05	-1.4e-05	-6.6e-06	-0.00684	5.86e-06	9.04e-06
10D	-4.7e-05	-1.9e-05	-9.3e-06	-0.00960	8.23e-06	1.27e-05
11D	0.002649	-1.9e-04	1.80e-04	0.007363	5.82e-05	-2.5e-04
12D	0.002618	-1.7e-04	1.78e-04	0.007478	6.62e-05	-2.8e-04
13D	0.006841	-4.7e-04	4.70e-04	0.021669	1.55e-04	-6.5e-04
14D	0.006787	-4.4e-04	4.66e-04	0.021750	1.73e-04	-7.2e-04
15D	3.25e-04	7.13e-04	1.37e-04	0.012142	1.65e-05	4.93e-05
16D	3.62e-04	7.02e-04	1.29e-04	0.012205	2.53e-05	6.26e-05
17D	7.81e-04	0.001615	3.10e-04	0.033538	3.87e-05	1.24e-04
18D	8.50e-04	0.001590	2.92e-04	0.033713	5.82e-05	1.51e-04
19D	-3.2e-05	-1.3e-05	-6.4e-06	-0.00641	5.53e-06	8.59e-06
20D	-1.2e-04	-4.8e-05	-2.3e-05	-0.02354	2.03e-05	3.16e-05

Nodo 294

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.39e-04	-1.2e-05	-6.9e-04	-0.08049	-2.4e-05	-6.2e-05
2S	6.08e-05	-2.0e-05	-8.3e-05	-0.03661	-2.8e-05	-2.3e-05
1D	0.002661	-3.6e-04	6.79e-05	0.006782	2.56e-04	-2.1e-04
2D	0.002640	-3.7e-04	6.30e-05	0.007149	2.59e-04	-2.4e-04
3D	0.003310	-4.5e-04	8.45e-05	0.008416	3.19e-04	-2.6e-04
4D	0.003285	-4.6e-04	7.83e-05	0.008874	3.22e-04	-2.9e-04
5D	2.99e-04	6.17e-04	1.07e-04	0.013505	-2.9e-05	2.98e-05
6D	3.26e-04	5.91e-04	9.92e-05	0.013371	-2.5e-05	-5.1e-05
7D	3.72e-04	7.71e-04	1.34e-04	0.016779	-3.6e-05	3.72e-05
8D	4.07e-04	7.38e-04	1.24e-04	0.016612	-3.1e-05	-6.4e-05
9D	-3.4e-05	-1.5e-05	-6.8e-06	-0.00712	-4.2e-06	4.80e-06
10D	-4.8e-05	-2.2e-05	-9.5e-06	-0.00998	-5.8e-06	6.73e-06
11D	0.002684	-3.7e-04	6.74e-05	0.006020	2.58e-04	-2.1e-04
12D	0.002653	-3.8e-04	6.17e-05	0.006448	2.60e-04	-2.4e-04
13D	0.006933	-9.4e-04	1.77e-04	0.017456	6.68e-04	-5.5e-04
14D	0.006877	-9.7e-04	1.64e-04	0.018428	6.74e-04	-6.2e-04
15D	3.26e-04	7.22e-04	1.25e-04	0.012660	-3.1e-05	3.29e-05
16D	3.67e-04	6.91e-04	1.16e-04	0.012536	-2.7e-05	-5.9e-05
17D	7.86e-04	0.001637	2.84e-04	0.034949	-7.6e-05	7.85e-05
18D	8.61e-04	0.001566	2.63e-04	0.034603	-6.5e-05	-1.4e-04
19D	-3.3e-05	-1.5e-05	-6.4e-06	-0.00667	-4.0e-06	4.59e-06
20D	-1.2e-04	-5.4e-05	-2.4e-05	-0.02448	-1.5e-05	1.69e-05

Nodo 295

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.41e-04	-4.5e-05	-6.8e-04	-0.03379	-7.1e-09	5.41e-06
2S	6.11e-05	-3.0e-05	-7.4e-05	-0.01539	-3.2e-05	7.94e-06
1D	0.002691	-5.4e-04	-1.8e-04	-0.00299	2.59e-04	-1.9e-04
2D	0.002671	-5.8e-04	-1.9e-04	-0.00332	2.63e-04	-2.2e-04
3D	0.003348	-6.7e-04	-2.3e-04	-0.00371	3.22e-04	-2.4e-04
4D	0.003323	-7.2e-04	-2.4e-04	-0.00412	3.27e-04	-2.7e-04
5D	3.00e-04	6.10e-04	1.16e-04	0.007581	-3.7e-05	-3.5e-05

6D	-3.3e-04	5.72e-04	1.08e-04	0.007427	-3.6e-05	-5.6e-05
7D	3.74e-04	7.62e-04	1.44e-04	0.009421	-4.7e-05	-4.4e-05
8D	-4.1e-04	7.15e-04	1.35e-04	0.009229	-4.4e-05	-7.0e-05
9D	-3.5e-05	-1.5e-05	-7.3e-06	-0.00340	-4.2e-06	3.57e-06
10D	-4.8e-05	-2.2e-05	-1.0e-05	-0.00477	-5.9e-06	5.00e-06
11D	0.002716	-5.5e-04	-1.9e-04	-0.00280	2.62e-04	-1.9e-04
12D	0.002684	-6.0e-04	-2.0e-04	-0.00312	2.66e-04	-2.2e-04
13D	0.007013	-0.00141	-4.8e-04	-0.00773	6.74e-04	-4.9e-04
14D	0.006957	-0.00151	-5.0e-04	-0.00859	6.85e-04	-5.7e-04
15D	3.27e-04	7.14e-04	1.35e-04	0.007180	-4.2e-05	-4.0e-05
16D	-3.7e-04	6.70e-04	1.27e-04	0.007037	-4.0e-05	-6.5e-05
17D	7.89e-04	0.001618	3.06e-04	0.019638	-9.8e-05	-9.3e-05
18D	-8.7e-04	0.001517	2.87e-04	0.019239	-9.4e-05	-1.5e-04
19D	-3.3e-05	-1.5e-05	-6.9e-06	-0.00319	-4.1e-06	3.44e-06
20D	-1.2e-04	-5.4e-05	-2.5e-05	-0.01170	-1.5e-05	1.26e-05

Nodo 296

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.41e-04	-7.8e-05	-6.8e-04	-8.0e-05	-1.6e-04	-6.3e-05
2S	6.12e-05	-4.1e-05	-6.9e-05	-2.9e-05	-6.3e-06	-2.9e-05
1D	0.002694	-7.3e-04	-4.7e-04	1.52e-04	3.96e-04	-2.3e-04
2D	0.002674	-7.9e-04	-4.8e-04	1.59e-04	3.97e-04	-2.6e-04
3D	0.003352	-9.1e-04	-5.8e-04	1.89e-04	4.93e-04	-2.9e-04
4D	0.003326	-9.9e-04	-6.0e-04	1.97e-04	4.94e-04	-3.2e-04
5D	3.00e-04	5.93e-04	1.38e-04	-6.8e-05	-4.3e-05	-3.9e-05
6D	-3.3e-04	5.49e-04	1.31e-04	-6.1e-05	-4.1e-05	-5.9e-05
7D	3.74e-04	7.40e-04	1.72e-04	-8.4e-05	-5.4e-05	-4.9e-05
8D	-4.1e-04	6.85e-04	1.63e-04	-7.6e-05	-5.2e-05	-7.4e-05
9D	-3.5e-05	1.61e-05	9.50e-06	-5.1e-06	-4.0e-06	-7.4e-06
10D	-4.8e-05	2.26e-05	1.33e-05	-7.1e-06	-5.6e-06	-1.0e-05
11D	0.002719	-7.5e-04	-4.8e-04	1.53e-04	4.01e-04	-2.3e-04
12D	0.002687	-8.2e-04	-4.9e-04	1.60e-04	4.01e-04	-2.6e-04
13D	0.007021	-0.00191	-0.00123	3.95e-04	0.001032	-6.1e-04
14D	0.006965	-0.00208	-0.00126	4.13e-04	0.001035	-6.7e-04
15D	3.27e-04	6.92e-04	1.60e-04	-7.8e-05	-4.7e-05	-4.4e-05
16D	-3.7e-04	6.42e-04	1.52e-04	-7.1e-05	-4.6e-05	-6.8e-05
17D	7.89e-04	0.001571	3.66e-04	-1.8e-04	-1.1e-04	-1.0e-04
18D	-8.7e-04	0.001455	3.47e-04	-1.6e-04	-1.1e-04	-1.6e-04
19D	-3.3e-05	1.55e-05	9.04e-06	-4.8e-06	-3.9e-06	-7.0e-06
20D	-1.2e-04	5.69e-05	3.32e-05	-1.8e-05	-1.4e-05	-2.6e-05

Nodo 297

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.60e-04	9.81e-05	-5.8e-04	-1.7e-04	0.004720	-8.8e-05
2S	6.90e-05	1.11e-05	-5.2e-05	-6.1e-05	0.002098	-3.6e-05
1D	0.002698	2.59e-04	2.51e-04	-9.3e-05	-0.00398	-3.6e-04
2D	0.002685	3.13e-04	2.62e-04	-9.4e-05	-0.00395	-3.9e-04
3D	0.003356	3.22e-04	3.13e-04	-1.2e-04	-0.00494	-4.5e-04
4D	0.003341	3.90e-04	3.26e-04	-1.2e-04	-0.00490	-4.8e-04
5D	3.05e-04	5.69e-04	1.37e-04	4.77e-05	-6.0e-04	4.11e-05
6D	3.20e-04	5.88e-04	1.34e-04	4.63e-05	-6.4e-04	-5.0e-05
7D	3.80e-04	7.10e-04	1.71e-04	5.95e-05	-7.5e-04	5.12e-05
8D	4.00e-04	7.34e-04	1.68e-04	5.77e-05	-8.0e-04	-6.2e-05
9D	-3.5e-05	-1.0e-05	-6.5e-06	-1.2e-05	4.00e-04	6.53e-06
10D	-4.9e-05	-1.4e-05	-9.1e-06	-1.6e-05	5.61e-04	9.16e-06
11D	0.002722	2.59e-04	2.54e-04	-9.3e-05	-0.00345	-3.6e-04
12D	0.002699	3.21e-04	2.67e-04	-9.3e-05	-0.00342	-3.9e-04
13D	0.007030	6.75e-04	6.55e-04	-2.4e-04	-0.01023	-9.4e-04
14D	0.006994	8.17e-04	6.84e-04	-2.4e-04	-0.01014	-0.00101
15D	3.34e-04	6.66e-04	1.60e-04	-5.3e-05	-6.0e-04	4.48e-05
16D	3.59e-04	6.88e-04	1.57e-04	5.13e-05	-6.4e-04	-5.6e-05
17D	8.03e-04	0.001508	3.63e-04	1.26e-04	-0.00157	1.08e-04
18D	8.45e-04	0.001559	3.56e-04	1.22e-04	-0.00167	-1.3e-04
19D	-3.4e-05	-9.9e-06	-6.2e-06	-1.1e-05	3.76e-04	6.24e-06
20D	-1.2e-04	-3.6e-05	-2.3e-05	-4.0e-05	0.001380	2.29e-05

Nodo 299						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.48e-04	3.19e-05	-0.02449	-0.08888	0.010681	-7.4e-05
2S	6.40e-05	-6.4e-06	-0.01091	-0.04049	0.004900	-2.6e-05
1D	0.002714	-1.8e-04	0.002764	0.010119	0.001667	-3.3e-04
2D	0.002701	-1.7e-04	0.002721	0.009839	0.001687	-3.6e-04
3D	0.003377	-2.3e-04	0.003429	0.012551	0.002069	-4.2e-04
4D	0.003361	-2.1e-04	0.003376	0.012206	0.002093	-4.5e-04
5D	3.05e-04	6.09e-04	0.003316	0.010141	-0.00114	4.01e-05
6D	3.22e-04	6.00e-04	0.003348	0.010302	-0.00106	-4.8e-05
7D	3.81e-04	7.61e-04	0.004119	0.012598	-0.00142	5.00e-05
8D	4.01e-04	7.49e-04	0.004159	0.012798	-0.00132	-6.0e-05
9D	-3.5e-05	-1.3e-05	-0.00196	-0.00680	8.39e-04	5.50e-06
10D	-4.9e-05	-1.9e-05	-0.00275	-0.00954	0.001177	7.72e-06
11D	0.002738	-1.9e-04	0.002393	0.008724	0.001462	-3.4e-04
12D	0.002715	-1.8e-04	0.002381	0.008550	0.001475	-3.7e-04
13D	0.007072	-4.8e-04	0.007099	0.025979	0.004287	-8.7e-04
14D	0.007036	-4.4e-04	0.006995	0.025278	0.004337	-9.4e-04
15D	3.34e-04	7.13e-04	0.003099	0.009454	-0.00107	4.39e-05
16D	3.60e-04	7.02e-04	0.003129	0.009606	-0.00100	-5.4e-05
17D	8.03e-04	0.001615	0.008579	0.026229	-0.00296	1.05e-04
18D	8.48e-04	0.001589	0.008662	0.026647	-0.00275	-1.3e-04
19D	-3.4e-05	-1.3e-05	-0.00184	-0.00637	7.87e-04	5.29e-06
20D	-1.2e-04	-4.7e-05	-0.00676	-0.02341	0.002890	1.94e-05

Nodo 300						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.52e-04	-1.1e-05	-0.02569	-0.09291	-0.00791	-4.0e-05
2S	6.56e-05	-2.0e-05	-0.01147	-0.04236	-0.00361	-1.3e-05
1D	0.002736	-3.6e-04	0.001789	-0.00576	0.001963	-2.9e-04
2D	0.002723	-3.7e-04	0.001899	-0.00615	0.001854	-3.2e-04
3D	0.003404	-4.5e-04	0.002220	-0.00714	0.002435	-3.6e-04
4D	0.003388	-4.6e-04	0.002358	-0.00763	0.002300	-3.9e-04
5D	3.06e-04	6.17e-04	0.003476	0.010715	9.00e-04	3.64e-05
6D	3.24e-04	5.91e-04	0.003423	0.010483	0.001005	-5.1e-05
7D	3.82e-04	7.71e-04	0.004318	0.013311	0.001118	4.54e-05
8D	4.04e-04	7.38e-04	0.004252	0.013023	0.001250	-6.3e-05
9D	-3.5e-05	-1.5e-05	-0.00205	-0.00711	-6.4e-04	4.18e-06
10D	-4.9e-05	-2.1e-05	-0.00287	-0.00997	-9.0e-04	5.87e-06
11D	0.002761	-3.7e-04	0.001581	-0.00506	0.001699	-2.9e-04
12D	0.002737	-3.9e-04	0.001707	-0.00550	0.001614	-3.2e-04
13D	0.007130	-9.4e-04	0.004604	-0.01480	0.005040	-7.6e-04
14D	0.007094	-9.8e-04	0.004894	-0.01584	0.004764	-8.3e-04
15D	3.34e-04	7.22e-04	0.003251	0.009996	8.69e-04	4.01e-05
16D	3.63e-04	6.91e-04	0.003201	0.009780	9.62e-04	-5.8e-05
17D	8.05e-04	0.001637	0.008993	0.027715	0.002335	9.59e-05
18D	8.54e-04	0.001567	0.008855	0.027117	0.002607	-1.3e-04
19D	-3.4e-05	-1.4e-05	-0.00192	-0.00666	-6.0e-04	4.08e-06
20D	-1.2e-04	-5.3e-05	-0.00705	-0.02445	-0.00221	1.50e-05

Nodo 301						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.51e-04	-4.6e-05	-0.01335	-0.05421	-0.01902	0.
2S	6.44e-05	-3.1e-05	-0.00583	-0.02459	-0.00867	0.
1D	0.002758	-5.4e-04	-0.00121	-0.00685	0.002113	0.
2D	0.002744	-5.8e-04	-0.00131	-0.00702	0.002129	0.
3D	0.003431	-6.7e-04	-0.00150	-0.00849	0.002621	0.
4D	0.003414	-7.2e-04	-0.00163	-0.00871	0.002642	0.
5D	3.07e-04	6.10e-04	0.001704	0.004493	0.003232	0.
6D	3.26e-04	5.73e-04	0.001642	0.004210	0.003140	0.
7D	3.83e-04	7.62e-04	0.002117	0.005582	0.004015	0.
8D	4.07e-04	7.15e-04	0.002040	0.005230	0.003901	0.
9D	-3.5e-05	-1.5e-05	-0.00100	-0.00371	-0.00167	0.
10D	-5.0e-05	-2.2e-05	-0.00141	-0.00521	-0.00234	0.
11D	0.002782	-5.6e-04	-0.00108	-0.00600	0.001852	0.
12D	0.002758	-6.0e-04	-0.00118	-0.00617	0.001881	0.
13D	0.007186	-0.00141	-0.00312	-0.01760	0.005431	0.
14D	0.007148	-0.00151	-0.00337	-0.01805	0.005478	0.
15D	3.35e-04	7.14e-04	0.001602	0.004208	0.003030	0.
16D	3.65e-04	6.70e-04	0.001543	0.003937	0.002943	0.
17D	8.08e-04	0.001618	0.004411	0.011626	0.008363	0.
18D	8.60e-04	0.001518	0.004249	0.010891	0.008125	0.
19D	-3.4e-05	-1.5e-05	-9.4e-04	-0.00348	-0.00156	0.
20D	-1.3e-04	-5.4e-05	-0.00345	-0.01278	-0.00574	0.

Nodo 302						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.46e-04	-7.9e-05	-7.0e-04	-6.3e-05	-0.00857	2.42e-05
2S	6.24e-05	-4.2e-05	-7.6e-05	-2.0e-05	-0.00389	1.51e-05
1D	0.002764	-7.3e-04	-4.3e-04	1.38e-04	-0.00311	-2.7e-04
2D	0.002751	-7.9e-04	-4.4e-04	1.40e-04	-0.00311	-3.0e-04
3D	0.003439	-9.1e-04	-5.3e-04	1.72e-04	-0.00386	-3.4e-04
4D	0.003422	-9.9e-04	-5.5e-04	1.74e-04	-0.00386	-3.7e-04
5D	3.07e-04	5.92e-04	1.25e-04	-2.8e-05	7.00e-04	3.70e-05
6D	-3.3e-04	5.49e-04	1.19e-04	2.69e-05	6.71e-04	-5.6e-05
7D	3.83e-04	7.40e-04	1.56e-04	-3.5e-05	8.70e-04	4.61e-05
8D	-4.1e-04	6.85e-04	1.49e-04	3.36e-05	8.34e-04	-7.0e-05
9D	-3.5e-05	1.62e-05	9.93e-06	-5.0e-06	-6.0e-04	5.47e-06
10D	-5.0e-05	2.27e-05	1.39e-05	-7.0e-06	-8.4e-04	7.67e-06

11D	0.002789	-7.5e-04	-4.4e-04	1.36e-04	-0.00272	-2.7e-04
12D	0.002765	-8.2e-04	-4.5e-04	1.37e-04	-0.00272	-3.0e-04
13D	0.007203	-0.00191	-0.00112	3.59e-04	-0.00800	-7.0e-04
14D	0.007165	-0.00208	-0.00115	3.63e-04	-0.00799	-7.8e-04
15D	3.35e-04	6.92e-04	1.45e-04	-3.2e-05	6.82e-04	4.07e-05
16D	-3.7e-04	6.42e-04	1.38e-04	-3.0e-05	6.53e-04	-6.5e-05
17D	8.08e-04	0.001570	3.31e-04	-7.4e-05	0.001818	9.74e-05
18D	-8.6e-04	0.001454	3.15e-04	7.10e-05	0.001742	-1.3e-04
19D	-3.4e-05	1.56e-05	9.41e-06	-4.7e-06	-5.6e-04	5.22e-06
20D	-1.3e-04	5.72e-05	3.46e-05	-1.7e-05	-0.00205	1.92e-05

Nodo 303						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.73e-04	9.67e-05	-6.1e-04	-1.0e-04	0.026321	1.29e-05
2S	7.37e-05	1.03e-05	-6.2e-05	-3.6e-05	0.012157	1.34e-05
1D	0.002792	2.54e-04	2.25e-04	-7.8e-05	-0.01225	-3.0e-04
2D	0.002786	3.08e-04	2.35e-04	-8.4e-05	-0.01202	-3.2e-04
3D	0.003473	3.16e-04	2.80e-04	-9.7e-05	-0.01520	-3.7e-04
4D	0.003466	3.83e-04	2.93e-04	-1.0e-04	-0.01491	-4.0e-04
5D	3.13e-04	5.69e-04	1.21e-04	-7.2e-05	-0.00178	4.40e-05
6D	3.20e-04	5.88e-04	1.19e-04	-7.4e-05	-0.00196	4.94e-05
7D	3.90e-04	7.10e-04	1.51e-04	-9.0e-05	-0.00221	5.48e-05
8D	4.00e-04	7.34e-04	1.48e-04	-9.2e-05	-0.00244	6.17e-05
9D	-3.6e-05	-1.0e-05	-7.4e-06	-4.3e-06	0.001783	4.06e-06
10D	-5.1e-05	-1.5e-05	-1.0e-05	-6.1e-06	0.002502	5.69e-06
11D	0.002816	2.54e-04	2.28e-04	-8.0e-05	-0.01058	-2.9e-04
12D	0.002801	3.16e-04	2.40e-04	-8.7e-05	-0.01038	-3.2e-04
13D	0.007275	6.60e-04	5.87e-04	-2.0e-04	-0.03146	-7.7e-04
14D	0.007258	8.04e-04	6.14e-04	-2.2e-04	-0.03086	-8.3e-04
15D	3.42e-04	6.66e-04	1.41e-04	-8.5e-05	-0.00168	4.92e-05
16D	3.58e-04	6.88e-04	1.38e-04	-8.6e-05	-0.00187	5.65e-05
17D	8.23e-04	0.001508	3.20e-04	-1.9e-04	-0.00460	1.16e-04
18D	8.45e-04	0.001558	3.14e-04	-2.0e-04	-0.00509	1.31e-04
19D	-3.5e-05	-1.0e-05	-7.0e-06	-4.1e-06	0.001672	3.96e-06
20D	-1.3e-04	-3.7e-05	-2.6e-05	-1.5e-05	0.006140	1.45e-05

Nodo 304						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.68e-04	6.49e-05	-0.02727	-0.05997	0.035691	-4.9e-05
2S	7.12e-05	2.18e-06	-0.01227	-0.02818	0.016243	-1.5e-05
1D	0.002794	4.47e-05	0.006180	0.013491	-0.00267	-2.3e-04
2D	0.002789	6.83e-05	0.005985	0.012966	-0.00270	-2.5e-04
3D	0.003476	5.55e-05	0.007665	0.016734	-0.00332	-2.8e-04
4D	0.003469	8.50e-05	0.007423	0.016082	-0.00335	-3.1e-04
5D	3.13e-04	5.91e-04	0.002681	0.004126	-0.00453	4.09e-05
6D	3.21e-04	5.97e-04	0.002814	0.004517	-0.00468	4.85e-05
7D	3.91e-04	7.38e-04	0.003330	0.005125	-0.00562	5.10e-05
8D	4.00e-04	7.45e-04	0.003495	0.005612	-0.00581	6.06e-05
9D	-3.6e-05	-1.1e-05	-0.00194	-0.00403	0.002862	4.37e-06
10D	-5.1e-05	-1.6e-05	-0.00272	-0.00565	0.004014	6.13e-06
11D	0.002819	4.50e-05	0.005320	0.011613	-0.00236	-2.3e-04
12D	0.002804	7.12e-05	0.005162	0.011171	-0.00243	-2.6e-04
13D	0.007281	1.16e-04	0.015864	0.034632	-0.00687	-5.9e-04
14D	0.007264	1.79e-04	0.015365	0.033285	-0.00696	-6.6e-04
15D	3.42e-04	6.92e-04	0.002503	0.003840	-0.00422	4.59e-05
16D	3.58e-04	6.98e-04	0.002629	0.004212	-0.00436	5.57e-05
17D	8.24e-04	0.001567	0.006935	0.010669	-0.01171	1.08e-04
18D	8.45e-04	0.001582	0.007279	0.011684	-0.01210	1.28e-04
19D	-3.5e-05	-1.1e-05	-0.00182	-0.00377	0.002681	4.21e-06
20D	-1.3e-04	-4.0e-05	-0.00668	-0.01386	0.009847	1.55e-05

1D	0.002815	-3.6e-04	-0.00333	-0.00573	0.005226	-2.5e-04
2D	0.002809	-3.7e-04	-0.00355	-0.00601	0.004987	-2.8e-04
3D	0.003502	-4.5e-04	-0.00413	-0.00711	0.006481	-3.1e-04
4D	0.003495	-4.7e-04	-0.00441	-0.00746	0.006185	-3.4e-04
5D	3.14e-04	6.17e-04	0.006215	0.008686	0.001888	3.27e-05
6D	3.22e-04	5.91e-04	0.006087	0.008389	0.002134	-5.1e-05
7D	3.91e-04	7.70e-04	0.007721	0.010789	0.002346	4.08e-05
8D	4.02e-04	7.38e-04	0.007562	0.010421	0.002650	-6.3e-05
9D	-3.6e-05	-1.5e-05	-0.00408	-0.00710	-0.00115	3.69e-06
10D	-5.1e-05	-2.1e-05	-0.00572	-0.00995	-0.00161	5.17e-06
11D	0.002840	-3.7e-04	-0.00293	-0.00500	0.004494	-2.5e-04
12D	0.002825	-3.9e-04	-0.00317	-0.00529	0.004295	-2.8e-04
13D	0.007335	-9.4e-04	-0.00857	-0.01473	0.013413	-6.5e-04
14D	0.007318	-9.8e-04	-0.00915	-0.01546	0.012802	-7.2e-04
15D	3.43e-04	7.22e-04	0.005798	0.008070	0.001758	3.60e-05
16D	3.60e-04	6.91e-04	0.005679	0.007791	0.001986	-5.8e-05
17D	8.26e-04	0.001636	0.016076	0.022457	0.004883	8.61e-05
18D	8.50e-04	0.001566	0.015745	0.021690	0.005518	-1.3e-04
19D	-3.5e-05	-1.4e-05	-0.00382	-0.00665	-0.00108	3.60e-06
20D	-1.3e-04	-5.2e-05	-0.01403	-0.02441	-0.00395	1.32e-05

Nodo 307

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.62e-04	-4.6e-05	-0.03028	-0.06339	-0.03862	0.
2S	6.81e-05	-3.1e-05	-0.01368	-0.02992	-0.01762	0.
1D	0.002829	-5.4e-04	-0.00340	-0.00886	0.003824	0.
2D	0.002823	-5.8e-04	-0.00353	-0.00891	0.003782	0.
3D	0.003519	-6.7e-04	-0.00422	-0.01099	0.004744	0.
4D	0.003512	-7.2e-04	-0.00438	-0.01106	0.004693	0.
5D	3.15e-04	6.10e-04	0.002924	0.004441	0.005502	0.
6D	3.24e-04	5.72e-04	0.002765	0.004030	0.005313	0.
7D	3.92e-04	7.62e-04	0.003633	0.005516	0.006836	0.
8D	4.03e-04	7.15e-04	0.003435	0.005006	0.006600	0.
9D	-3.6e-05	-1.5e-05	-0.00214	-0.00430	-0.00319	0.
10D	-5.1e-05	-2.1e-05	-0.00300	-0.00603	-0.00448	0.
11D	0.002854	-5.6e-04	-0.00298	-0.00769	0.003337	0.
12D	0.002838	-6.0e-04	-0.00310	-0.00774	0.003314	0.
13D	0.007371	-0.00141	-0.00874	-0.02276	0.009827	0.
14D	0.007353	-0.00151	-0.00907	-0.02289	0.009724	0.
15D	3.43e-04	7.13e-04	0.002736	0.004144	0.005134	0.
16D	3.61e-04	6.70e-04	0.002585	0.003755	0.004955	0.
17D	8.27e-04	0.001617	0.007567	0.011486	0.014233	0.
18D	8.53e-04	0.001517	0.007153	0.010421	0.013742	0.
19D	-3.5e-05	-1.5e-05	-0.00200	-0.00403	-0.00299	0.
20D	-1.3e-04	-5.4e-05	-0.00735	-0.01480	-0.01098	0.

Nodo 308

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.56e-04	-8.0e-05	-7.2e-04	-8.0e-05	-0.02584	-1.1e-04
2S	6.54e-05	-4.2e-05	-8.2e-05	-2.9e-05	-0.01198	-4.8e-05
1D	0.002833	-7.3e-04	-3.9e-04	1.50e-04	-0.00915	-2.1e-04
2D	0.002827	-7.9e-04	-4.0e-04	1.58e-04	-0.00909	-2.4e-04
3D	0.003525	-9.1e-04	-4.8e-04	1.87e-04	-0.01135	-2.6e-04
4D	0.003517	-9.9e-04	-4.9e-04	1.96e-04	-0.01127	-2.9e-04
5D	3.15e-04	5.93e-04	1.12e-04	-6.7e-05	0.001723	-3.8e-05
6D	3.24e-04	5.49e-04	1.07e-04	-6.1e-05	0.001636	-5.9e-05
7D	3.92e-04	7.40e-04	1.40e-04	-8.4e-05	0.002142	-4.7e-05
8D	4.04e-04	6.85e-04	1.34e-04	-7.6e-05	0.002033	-7.3e-05
9D	-3.6e-05	1.63e-05	-1.0e-05	-3.8e-06	-0.00177	-8.7e-06
10D	-5.1e-05	2.29e-05	-1.5e-05	-5.3e-06	-0.00248	-1.2e-05
11D	0.002858	-7.5e-04	-3.9e-04	1.52e-04	-0.00795	-2.1e-04
12D	0.002842	-8.2e-04	-4.0e-04	1.60e-04	-0.00791	-2.4e-04
13D	0.007382	-0.00191	-0.00101	3.92e-04	-0.02350	-5.5e-04
14D	0.007363	-0.00207	-0.00104	4.11e-04	-0.02334	-6.1e-04
15D	3.43e-04	6.92e-04	1.29e-04	-7.8e-05	0.001632	-4.3e-05
16D	3.61e-04	6.42e-04	1.24e-04	-7.1e-05	0.001540	-6.8e-05
17D	8.27e-04	0.001571	2.97e-04	-1.8e-04	0.004464	-1.0e-04
18D	8.54e-04	0.001455	2.84e-04	-1.6e-04	0.004235	-1.6e-04
19D	-3.5e-05	1.57e-05	9.79e-06	-3.6e-06	-0.00166	-8.2e-06
20D	-1.3e-04	5.76e-05	3.60e-05	-1.3e-05	-0.00609	-3.0e-05

Nodo 309

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.87e-04	9.56e-05	-6.4e-04	-5.2e-05	0.058030	-5.4e-05
2S	7.77e-05	9.74e-06	-6.8e-05	-7.0e-06	0.027829	-2.2e-05
1D	0.002923	2.41e-04	1.95e-04	-5.9e-05	-0.02556	-3.2e-04
2D	0.002929	2.96e-04	2.04e-04	-5.8e-05	-0.02497	-3.5e-04
3D	0.003637	3.00e-04	2.43e-04	-7.3e-05	-0.03170	-4.0e-04
4D	0.003644	3.68e-04	2.54e-04	-7.2e-05	-0.03097	-4.3e-04
5D	3.25e-04	5.67e-04	9.90e-05	-2.6e-05	-0.00336	4.13e-05
6D	3.20e-04	5.87e-04	9.69e-05	-2.4e-05	-0.00380	-5.7e-05
7D	4.06e-04	7.09e-04	1.24e-04	-3.2e-05	-0.00418	5.15e-05
8D	3.99e-04	7.33e-04	1.21e-04	-3.0e-05	-0.00472	-7.1e-05
9D	-3.8e-05	-1.0e-05	-7.4e-06	-1.9e-06	0.003921	4.96e-06
10D	-5.3e-05	-1.5e-05	-1.0e-05	-2.6e-06	0.005500	6.95e-06
11D	0.002948	2.41e-04	1.99e-04	-5.7e-05	-0.02201	-3.2e-04
12D	0.002946	3.04e-04	2.09e-04	-5.6e-05	-0.02151	-3.5e-04
13D	0.007616	6.28e-04	5.10e-04	-1.5e-04	-0.06561	-8.3e-04
14D	0.007630	7.73e-04	5.34e-04	-1.5e-04	-0.06409	-9.1e-04
15D	3.55e-04	6.65e-04	1.15e-04	-3.0e-05	-0.00316	4.57e-05

16D	3.55e-04	6.86e-04	1.13e-04	-2.8e-05	-0.00358	-6.5e-05
17D	8.56e-04	0.001505	2.62e-04	-6.8e-05	-0.00870	1.09e-04
18D	8.43e-04	0.001555	2.57e-04	-6.3e-05	-0.00984	-1.5e-04
19D	-3.6e-05	-1.0e-05	-7.0e-06	1.79e-06	0.003678	4.81e-06
20D	-1.3e-04	-3.7e-05	-2.6e-05	6.57e-06	0.013508	1.77e-05

Nodo 310

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.86e-04	6.24e-05	-0.05332	-0.05708	0.065224	0.
2S	7.70e-05	1.24e-06	-0.02477	-0.02798	0.029970	0.
1D	0.002927	4.17e-05	0.012442	0.014752	-0.00453	0.
2D	0.002934	6.43e-05	0.012009	0.014210	-0.00448	0.
3D	0.003642	5.19e-05	0.015432	0.018297	-0.00563	0.
4D	0.003650	8.00e-05	0.014895	0.017625	-0.00556	0.
5D	3.26e-04	5.90e-04	0.004190	0.003351	-0.00660	0.
6D	3.20e-04	5.96e-04	0.004493	0.003790	-0.00690	0.
7D	4.06e-04	7.37e-04	0.005204	0.004163	-0.00820	0.
8D	4.00e-04	7.44e-04	0.005582	0.004709	-0.00857	0.
9D	-3.8e-05	-1.1e-05	-0.00368	-0.00388	0.004879	0.
10D	-5.3e-05	-1.6e-05	-0.00516	-0.00545	0.006844	0.
11D	0.002953	4.23e-05	0.010700	0.012683	-0.00399	0.
12D	0.002951	6.71e-05	0.010342	0.012226	-0.00399	0.
13D	0.007628	1.09e-04	0.031936	0.037863	-0.01166	0.
14D	0.007642	1.68e-04	0.030827	0.036476	-0.01154	0.
15D	3.55e-04	6.91e-04	0.003896	0.003138	-0.00613	0.
16D	3.56e-04	6.97e-04	0.004183	0.003567	-0.00642	0.
17D	8.57e-04	0.001564	0.010833	0.008670	-0.01707	0.
18D	8.44e-04	0.001579	0.011620	0.009811	-0.01785	0.
19D	-3.6e-05	-1.1e-05	-0.00344	-0.00364	0.004571	0.
20D	-1.3e-04	-3.9e-05	-0.01265	-0.01337	0.016788	0.

Nodo 311

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.84e-04	2.57e-05	-0.09283	-0.09285	0.021911	-4.3e-05
2S	7.62e-05	-9.1e-06	-0.04223	-0.04276	0.008531	-1.4e-05
1D	0.002931	-1.8e-04	0.010805	0.011494	0.008528	-2.9e-04
2D	0.002937	-1.7e-04	0.010438	0.010999	0.008394	-3.2e-04
3D	0.003646	-2.3e-04	0.013401	0.014256	0.010578	-3.7e-04
4D	0.003654	-2.1e-04	0.012948	0.013643	0.010412	-4.0e-04
5D	3.26e-04	6.08e-04	0.008830	0.006390	-0.00376	3.64e-05
6D	3.21e-04	5.98e-04	0.009030	0.006644	-0.00326	-5.1e-05
7D	4.06e-04	7.59e-04	0.010968	0.007937	-0.00468	4.54e-05
8D	4.00e-04	7.47e-04	0.011216	0.008253	-0.00405	-6.3e-05
9D	-3.8e-05	-1.3e-05	-0.00686	-0.00664	0.002297	4.21e-06
10D	-5.3e-05	-1.8e-05	-0.00963	-0.00932	0.003222	5.91e-06
11D	0.002957	-1.9e-04	0.009295	0.009908	0.007357	-3.0e-04
12D	0.002955	-1.8e-04	0.009032	0.009493	0.007237	-3.3e-04
13D	0.007637	-4.8e-04	0.027734	0.029507	0.021895	-7.7e-04
14D	0.007651	-4.5e-04	0.026806	0.028240	0.021550	-8.4e-04
15D	3.55e-04	7.12e-04	0.008203	0.005936	-0.00352	4.00e-05
16D	3.56e-04	7.00e-04	0.008391	0.006178	-0.00305	-5.8e-05
17D	8.57e-04	0.001612	0.022830	0.016521	-0.00974	9.58e-05
18D	8.45e-04	0.001586	0.023347	0.017179	-0.00844	-1.3e-04
19D	-3.6e-05	-1.2e-05	-0.00643	-0.00622	0.002156	4.11e-06
20D	-1.3e-04	-4.5e-05	-0.02361	-0.02284	0.007918	1.51e-05

Nodo 312

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.82e-04	-1.3e-05	-0.09607	-0.09476	-0.01450	-4.4e-05
2S	7.53e-05	-2.1e-05	-0.04374	-0.04368	-0.00507	-1.5e-05
1D	0.002936	-3.6e-04	-0.00565	-0.00613	0.011152	-2.8e-04
2D	0.002943	-3.7e-04	-0.00600	-0.00628	0.010670	-3.1

6D	3.21e-04	5.72e-04	0.004426	0.003948	0.007504	0.
7D	4.07e-04	7.61e-04	0.005924	0.005474	0.009731	0.
8D	4.00e-04	7.14e-04	0.005498	0.004904	0.009321	0.
9D	-3.8e-05	-1.5e-05	-0.00405	-0.00438	-0.00522	0.
10D	-5.3e-05	-2.1e-05	-0.00568	-0.00614	-0.00733	0.
11D	0.002969	-5.5e-04	-0.00648	-0.00847	0.005178	0.
12D	0.002966	-5.9e-04	-0.00661	-0.00843	0.005043	0.
13D	0.007668	-0.00140	-0.01920	-0.02529	0.015221	0.
14D	0.007681	-0.00150	-0.01954	-0.02521	0.014821	0.
15D	3.56e-04	7.13e-04	0.004444	0.004115	0.007282	0.
16D	3.56e-04	6.69e-04	0.004122	0.003671	0.006972	0.
17D	8.58e-04	0.001616	0.012333	0.011399	0.020257	0.
18D	8.46e-04	0.001516	0.011446	0.010209	0.019401	0.
19D	-3.7e-05	-1.4e-05	-0.00380	-0.00410	-0.00489	0.
20D	-1.3e-04	-5.3e-05	-0.01394	-0.01506	-0.01797	0.

Nodo 314

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.78e-04	-8.2e-05	-7.3e-04	-1.7e-05	-0.05716	-6.6e-06
2S	7.29e-05	-4.3e-05	-8.5e-05	-2.2e-06	-0.02762	3.27e-06
1D	0.002944	-7.3e-04	-3.3e-04	1.15e-04	-0.01922	-3.1e-04
2D	0.002950	-7.9e-04	-3.4e-04	1.14e-04	-0.01904	-3.4e-04
3D	0.003663	-9.0e-04	-4.1e-04	1.43e-04	-0.02384	-3.8e-04
4D	0.003670	-9.8e-04	-4.2e-04	1.42e-04	-0.02362	-4.3e-04
5D	3.26e-04	5.92e-04	9.37e-05	-1.8e-05	0.003685	4.22e-05
6D	3.21e-04	5.49e-04	9.02e-05	-1.9e-05	0.003373	5.77e-05
7D	4.07e-04	7.40e-04	1.17e-04	-2.3e-05	0.004578	5.26e-05
8D	4.00e-04	6.85e-04	1.13e-04	-2.3e-05	0.004191	7.20e-05
9D	-3.8e-05	1.65e-05	-1.0e-05	2.47e-06	-0.00398	4.26e-06
10D	-5.3e-05	2.31e-05	-1.4e-05	3.46e-06	-0.00558	5.97e-06
11D	0.002970	-7.4e-04	-3.4e-04	1.15e-04	-0.01662	-3.1e-04
12D	0.002968	-8.1e-04	-3.4e-04	1.14e-04	-0.01648	-3.5e-04
13D	0.007672	-0.00190	-8.6e-04	2.99e-04	-0.04936	-8.0e-04
14D	0.007685	-0.00206	-8.8e-04	2.97e-04	-0.04889	-8.9e-04
15D	3.56e-04	6.92e-04	1.08e-04	-2.0e-05	0.003465	4.63e-05
16D	3.57e-04	6.42e-04	1.04e-04	-2.1e-05	0.003159	6.60e-05
17D	8.58e-04	0.001570	2.48e-04	-4.8e-05	0.009538	1.11e-04
18D	8.46e-04	0.001455	2.39e-04	-4.9e-05	0.008728	1.52e-04
19D	-3.7e-05	1.58e-05	-9.5e-06	-2.3e-06	-0.00374	4.23e-06
20D	-1.3e-04	5.81e-05	-3.5e-05	-8.6e-06	-0.01372	1.55e-05

Nodo 315

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.04e-04	9.44e-05	-6.6e-04	-5.3e-05	0.083392	-4.6e-06
2S	8.33e-05	9.39e-06	-7.2e-05	-1.3e-05	0.040305	5.40e-06
1D	0.003048	2.26e-04	1.70e-04	-4.9e-05	-0.03829	-2.5e-04
2D	0.003066	2.81e-04	1.78e-04	-5.6e-05	-0.03745	-2.7e-04
3D	0.003792	2.81e-04	2.12e-04	-6.1e-05	-0.04749	-3.1e-04
4D	0.003815	3.50e-04	2.22e-04	-7.0e-05	-0.04645	-3.4e-04
5D	-3.4e-04	5.66e-04	7.87e-05	-6.8e-05	-0.00432	4.06e-05
6D	3.20e-04	5.85e-04	7.67e-05	-7.0e-05	-0.00495	4.97e-05
7D	-4.2e-04	7.07e-04	9.82e-05	-8.5e-05	-0.00537	5.07e-05
8D	3.99e-04	7.31e-04	9.58e-05	-8.8e-05	-0.00615	6.21e-05
9D	-3.9e-05	-1.1e-05	-7.6e-06	-3.0e-06	0.005808	3.07e-06
10D	-5.5e-05	-1.5e-05	-1.1e-05	-4.2e-06	0.008148	4.31e-06
11D	0.003074	2.26e-04	1.74e-04	-5.1e-05	-0.03290	-2.5e-04
12D	0.003086	2.89e-04	1.83e-04	-6.0e-05	-0.03220	-2.8e-04
13D	0.007942	5.88e-04	4.44e-04	-1.3e-04	-0.09827	-6.5e-04
14D	0.007988	7.34e-04	4.66e-04	-1.5e-04	-0.09612	-7.2e-04
15D	-3.7e-04	6.63e-04	9.16e-05	-8.0e-05	-0.00404	4.55e-05
16D	3.54e-04	6.85e-04	8.92e-05	-8.2e-05	-0.00464	5.72e-05
17D	-8.9e-04	0.001501	2.08e-04	-1.8e-04	-0.01118	1.07e-04
18D	8.43e-04	0.001552	2.03e-04	-1.9e-04	-0.01281	1.32e-04
19D	-3.8e-05	-1.0e-05	-7.1e-06	-2.8e-06	0.005445	3.05e-06
20D	-1.4e-04	-3.7e-05	-2.6e-05	-1.0e-05	0.020000	1.12e-05

Nodo 316

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.04e-04	5.90e-05	-0.07555	-0.04286	0.091622	0.
2S	8.28e-05	-3.7e-08	-0.03537	-0.01964	0.042168	0.
1D	0.003053	3.76e-05	0.018546	0.012874	-0.00640	0.
2D	0.003072	5.86e-05	0.017929	0.012583	-0.00619	0.
3D	0.003799	4.68e-05	0.023003	0.015968	-0.00793	0.
4D	0.003821	7.30e-05	0.022238	0.015607	-0.00768	0.
5D	-3.4e-04	5.89e-04	0.005237	0.002792	-0.00811	0.
6D	3.21e-04	5.95e-04	0.005668	0.003039	-0.00851	0.
7D	-4.2e-04	7.35e-04	0.006505	0.003468	-0.01008	0.
8D	4.00e-04	7.42e-04	0.007041	0.003776	-0.01057	0.
9D	-4.0e-05	-1.1e-05	-0.00523	-0.00329	0.006719	0.
10D	-5.5e-05	-1.6e-05	-0.00734	-0.00461	0.009426	0.
11D	0.003079	3.88e-05	0.015934	0.011081	-0.00557	0.
12D	0.003091	6.16e-05	0.015420	0.010824	-0.00544	0.
13D	0.007956	9.83e-05	0.047600	0.033046	-0.01643	0.
14D	0.008002	1.53e-04	0.046020	0.032298	-0.01591	0.
15D	-3.7e-04	6.90e-04	0.004858	0.002624	-0.00752	0.
16D	3.54e-04	6.96e-04	0.005265	0.002872	-0.00789	0.
17D	-8.9e-04	0.001561	0.013539	0.007226	-0.02097	0.
18D	8.44e-04	0.001576	0.014655	0.007870	-0.02199	0.
19D	-3.8e-05	-1.1e-05	-0.00490	-0.00308	0.006293	0.
20D	-1.4e-04	-3.9e-05	-0.01800	-0.01131	0.023113	0.

Nodo 317

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.03e-04	2.27e-05	-0.13128	-0.07984	0.031149	-4.2e-05
2S	8.24e-05	-1.0e-05	-0.05993	-0.03673	0.011952	-1.4e-05
1D	0.003055	-1.8e-04	0.015564	0.010304	0.013798	-2.7e-04
2D	0.003073	-1.7e-04	0.015010	0.010011	0.013543	-3.0e-04
3D	0.003801	-2.3e-04	0.019304	0.012782	0.017114	-3.4e-04
4D	0.003823	-2.1e-04	0.018618	0.012418	0.016797	-3.7e-04
5D	-3.4e-04	6.07e-04	0.010820	0.005743	-0.00436	3.46e-05
6D	3.21e-04	5.97e-04	0.011103	0.005878	-0.00368	-5.1e-05
7D	-4.2e-04	7.58e-04	0.013440	0.007136	-0.00541	4.32e-05
8D	4.00e-04	7.46e-04	0.013791	0.007303	-0.00457	-6.4e-05
9D	-4.0e-05	-1.3e-05	-0.00957	-0.00589	0.003035	3.98e-06
10D	-5.6e-05	-1.8e-05	-0.01342	-0.00827	0.004257	5.58e-06
11D	0.003081	-1.9e-04	0.013383	0.008911	0.011857	-2.7e-04
12D	0.003093	-1.8e-04	0.012957	0.008649	0.011631	-3.1e-04
13D	0.007960	-4.8e-04	0.039949	0.026461	0.035414	-7.0e-04
14D	0.008006	-4.5e-04	0.038539	0.025706	0.034756	-7.8e-04
15D	-3.7e-04	7.11e-04	0.010026	0.005401	-0.00407	3.81e-05
16D	3.54e-04	6.99e-04	0.010293	0.005531	-0.00343	-5.9e-05
17D	-8.9e-04	0.001610	0.027969	0.014867	-0.01128	9.11e-05
18D	8.44e-04	0.001583	0.028702	0.015217	-0.00951	-1.4e-04
19D	-3.8e-05	-1.2e-05	-0.00896	-0.00552	0.002849	3.88e-06
20D	-1.4e-04	-4.4e-05	-0.03290	-0.02026	0.010465	1.42e-05

Nodo 318

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.01e-04	-1.4e-05	-0.13533	-0.08157	-0.02188	-4.1e-05
2S	8.14e-05	-2.1e-05	-0.06182	-0.03754	-0.00761	-1.3e-05
1D	0.003056	-3.6e-04	-0.00795	-0.00622	0.017073	-2.6e-04
2D	0.003075	-3.7e-04	-0.00839	-0.00638	0.016387	-2.9e-04
3D	0.003802	-4.4e-04	-0.00986	-0.00771	0.021175	-3.3e-04
4D	0.003825	-4.6e-04	-0.01041	-0.00792	0.020324	-3.6e-04
5D	-3.4e-04	6.15e-04	0.011534	0.006102	0.002967	3.51e-05
6D	3.20e-04	5.89e-04	0.011196	0.005930	0.003548	-5.2e-05
7D	-4.2e-04	7.68e-04	0.014326	0.007581	0.003686	4.25e-05
8D	3.99e-04	7.36e-04	0.013907	0.007368	0.004407	-6.5e-05
9D	-4.0e-05	-1.4e-05	-0.00992	-0.00607	-0.00222	4.01e-06
10D	-5.6e-05	-2.0e-05	-0.01392	-0.00851	-0.00311	5.63e-06
11D	0.003083	-3.7e-04	-0.00687	-0.00538	0.014673	-2.7e-04
12D	0.003095	-3.8e-04	-0.00731	-0.00550	0.014069	-3.0e-04
13D	0.007964	-9.3e-04	-0.02041	-0.01596	0.043819	-6.9e-04
14D	0.008010	-9.6e-04	-0.02156	-0.01638	0.042055	-7.6e-04
15D	-3.7e-04	7.20e-04	0.010695	0.005737	0.002775	3.75e-05
16D	3.54e-04	6.89e-04	0.010380	0.005577	0.003291	-6.0e-05
17D	-8.9e-04	0.001631	0.029816	0.015795	0.007676	8.96e-05
18D	8.44e-04	0.001562	0.028942	0.015351	0.009171	-1.4e-04
19D	-3.8e-05	-1.3e-05	-0.00929	-0.00568	-0.00209	3.91e-06
20D	-1.4e-04	-4.9e-05	-0.03412	-0.02086	-0.00767	1.43e-05

Nodo 319

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	2.98e-04	-4.9e-05	-0.08213	-0.04576	-0.09426	0.
2S	8.03e-05	-3.2e-05	-0.03849	-0.02099	-0.04334	0.
1D	0.003058	-5.3e-04	-0.01162	-0.00942	0.007423	0.
2D	0.003076	-5.7e-04	-0.01175	-0.00941	0.007185	0.
3D	0.003805	-6.6e-04	-0.01442	-0.01168	0.009209	0.
4D	0.003827	-7.1e-04	-0.01457	-0.01167	0.008913	0.
5D	-3.4e-04	6.09e-04	0.006224	0.003395	0.009285	0.
6D	3.20e-04	5.72e-04	0.005753	0.003161	0.008867	0.
7D	-4.2e-04	7.60e-04	0.007732	0.004218	0.011533	0.
8D	3.99e-04	7.14e-04	0.007146	0.003928	0.011014	0.
9D	-4.0e-05	-1.5e-05	-0.00580	-0.00360	-0.00699	0.
10D	-5.6e-05	-2.1e-05	-0.00813	-0.00505	-0.00981	0.
11D	0.003085	-5.5e-04	-0.01000	-0.00808	0.006473	0.
12D	0.003096	-5.9e-04	-0.01011	-0.00805	0.006263	0.
13D	0.007968	-0.00139	-0.02983	-0.02417	0.019075	0.
14D	0.008015	-0.00149	-0.03015	-0.02415	0.018462	0.
15D	-3.7e-04	7.12e-04	0.005785	0.003192	0.008610	0.
16D	3.54e-04	6.69e-04	0.005341	0.002964	0.008222	0.
17D	-8.9e-04	0.001615	0.016094	0.008788	0.024002	0.
18D	8.43e-04	0.001515	0.014873	0.008181	0.022922	0.
19D	-3.8e-05	1.43e-05	-0.00543	-0.00337	-0.00655	0.
20D	-1.4e-04	5.26e-05	-0.01995	-0.01239	-0.02405	0.

11D	0.003083	-7.4e-04	-2.8e-04	1.41e-04	-0.02483	-2.0e-04
12D	0.003095	-8.1e-04	-2.8e-04	1.50e-04	-0.02459	-2.3e-04
13D	0.007964	-0.00187	-7.1e-04	3.61e-04	-0.07410	-5.2e-04
14D	0.008010	-0.00204	-7.3e-04	3.82e-04	-0.07337	-5.9e-04
15D	-3.7e-04	6.92e-04	8.75e-05	-7.8e-05	0.005067	-3.9e-05
16D	3.53e-04	6.42e-04	8.48e-05	-7.2e-05	0.004603	-6.5e-05
17D	-8.9e-04	0.001570	2.01e-04	-1.8e-04	0.014015	-9.1e-05
18D	8.42e-04	0.001456	1.94e-04	-1.6e-04	0.012764	-1.5e-04
19D	-3.8e-05	1.58e-05	-9.2e-06	-1.8e-06	-0.00564	-5.9e-06
20D	-1.4e-04	5.82e-05	-3.4e-05	-6.8e-06	-0.02072	-2.2e-05

Nodo 321

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.23e-04	9.20e-05	-6.9e-04	-1.2e-04	0.098533	-6.6e-05
2S	8.94e-05	8.79e-06	-8.0e-05	-3.6e-05	0.046376	-2.5e-05
1D	0.003168	2.08e-04	1.50e-04	-5.2e-05	-0.04837	-3.2e-04
2D	0.003200	2.64e-04	1.57e-04	-5.1e-05	-0.04756	-3.5e-04
3D	0.003942	2.58e-04	1.87e-04	-6.5e-05	-0.05999	-3.9e-04
4D	0.003981	3.29e-04	1.96e-04	-6.4e-05	-0.05899	-4.3e-04
5D	-3.5e-04	5.64e-04	6.05e-05	1.74e-05	-0.00488	4.19e-05
6D	-3.2e-04	5.84e-04	5.88e-05	1.70e-05	-0.00548	-6.3e-05
7D	-4.4e-04	7.05e-04	7.55e-05	2.17e-05	-0.00607	5.22e-05
8D	-4.0e-04	7.29e-04	7.33e-05	2.11e-05	-0.00681	-7.8e-05
9D	-4.1e-05	-1.1e-05	-8.4e-06	-7.3e-06	0.007197	5.51e-06
10D	-5.8e-05	-1.5e-05	-1.2e-05	-1.0e-05	0.010096	7.73e-06
11D	0.003195	2.08e-04	1.54e-04	-4.8e-05	-0.04150	-3.1e-04
12D	0.003221	2.72e-04	1.62e-04	-4.6e-05	-0.04083	-3.5e-04
13D	0.008255	5.41e-04	3.91e-04	-1.3e-04	-0.12412	-8.2e-04
14D	0.008336	6.90e-04	4.10e-04	-1.3e-04	-0.12207	-9.1e-04
15D	-3.8e-04	6.61e-04	7.00e-05	1.95e-05	-0.00451	4.69e-05
16D	-3.5e-04	6.83e-04	6.80e-05	1.85e-05	-0.00509	-7.2e-05
17D	-9.2e-04	0.001497	1.60e-04	4.59e-05	-0.01262	1.10e-04
18D	-8.4e-04	0.001548	1.56e-04	4.46e-05	-0.01418	-1.7e-04
19D	-4.0e-05	-1.0e-05	-7.9e-06	-6.8e-06	0.006740	5.31e-06
20D	-1.5e-04	-3.7e-05	-2.9e-05	-2.5e-05	0.024755	1.95e-05

Nodo 322

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.23e-04	5.55e-05	-0.09105	-0.02679	0.112953	0.
2S	8.90e-05	-1.3e-06	-0.04207	-0.01048	0.051898	0.
1D	0.003173	3.36e-05	0.023666	0.010531	-0.00837	0.
2D	0.003204	5.19e-05	0.023009	0.010642	-0.00801	0.
3D	0.003947	4.19e-05	0.029353	0.013063	-0.01038	0.
4D	0.003986	6.46e-05	0.028538	0.013200	-0.00994	0.
5D	-3.5e-04	5.88e-04	0.005861	-0.00277	-0.00897	0.
6D	-3.2e-04	5.94e-04	0.006309	-0.00298	-0.00944	0.
7D	-4.4e-04	7.34e-04	0.007280	-0.00345	-0.01115	0.
8D	-4.0e-04	7.41e-04	0.007836	-0.00371	-0.01172	0.
9D	-4.1e-05	-1.1e-05	-0.00644	-0.00252	0.008222	0.
10D	-5.8e-05	-1.6e-05	-0.00904	-0.00354	0.011534	0.
11D	0.003199	3.56e-05	0.020320	0.009107	-0.00724	0.
12D	0.003226	5.49e-05	0.019770	0.009195	-0.00698	0.
13D	0.008267	8.80e-05	0.060738	0.027044	-0.02149	0.
14D	0.008347	1.36e-04	0.059055	0.027326	-0.02059	0.
15D	-3.8e-04	6.89e-04	0.005423	-0.00266	-0.00831	0.
16D	-3.5e-04	6.95e-04	0.005846	-0.00288	-0.00874	0.
17D	-9.2e-04	0.001559	0.015149	-0.00719	-0.02319	0.
18D	-8.5e-04	0.001574	0.016308	-0.00774	-0.02440	0.
19D	-4.0e-05	-1.1e-05	-0.00603	-0.00237	0.007698	0.
20D	-1.5e-04	-3.9e-05	-0.02216	-0.00872	0.028275	0.

Nodo 323

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.21e-04	2.00e-05	-0.16279	-0.06171	0.045250	-4.1e-05
2S	8.84e-05	-1.1e-05	-0.07440	-0.02830	0.019414	-1.4e-05
1D	0.003172	-1.8e-04	0.019521	0.008044	0.018987	-2.6e-04
2D	0.003203	-1.7e-04	0.018886	0.008077	0.018716	-2.9e-04
3D	0.003946	-2.3e-04	0.024212	0.009979	0.023549	-3.3e-04
4D	0.003985	-2.1e-04	0.023426	0.010019	0.023212	-3.7e-04
5D	-3.5e-04	6.07e-04	0.012176	-0.00575	-0.00507	3.42e-05
6D	-3.2e-04	5.96e-04	0.012482	-0.00588	-0.00434	-5.3e-05
7D	-4.4e-04	7.57e-04	0.015123	-0.00715	-0.00630	4.26e-05
8D	-4.0e-04	7.45e-04	0.015504	-0.00731	-0.00539	-6.6e-05
9D	-4.1e-05	-1.2e-05	-0.01182	-0.00480	0.003885	3.93e-06
10D	-5.8e-05	-1.7e-05	-0.01658	-0.00674	0.005450	5.52e-06
11D	0.003199	-1.9e-04	0.016787	0.007003	0.016281	-2.6e-04
12D	0.003226	-1.8e-04	0.016283	0.007015	0.016041	-3.0e-04
13D	0.008265	-4.8e-04	0.050105	0.020668	0.048722	-6.8e-04
14D	0.008346	-4.5e-04	0.048487	0.020748	0.048024	-7.7e-04
15D	-3.8e-04	7.10e-04	0.011269	-0.00548	-0.00471	3.77e-05
16D	-3.5e-04	6.98e-04	0.011560	-0.00561	-0.00403	-6.1e-05
17D	-9.2e-04	0.001608	0.031470	-0.01491	-0.01312	9.00e-05
18D	-8.5e-04	0.001581	0.032264	-0.01525	-0.01123	-1.4e-04
19D	-4.0e-05	-1.2e-05	-0.01107	-0.00450	0.003639	3.84e-06
20D	-1.5e-04	-4.3e-05	-0.04064	-0.01654	0.013368	1.41e-05

Nodo 324

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.19e-04	-1.5e-05	-0.16758	-0.06332	-0.03429	-4.1e-05
2S	8.75e-05	-2.2e-05	-0.07664	-0.02904	-0.01429	-1.4e-05

1D	0.003171	-3.5e-04	-0.01011	-0.00600	0.022291	-2.6e-04
2D	0.003203	-3.7e-04	-0.01066	-0.00623	0.021448	-2.9e-04
3D	0.003945	-4.4e-04	-0.01254	-0.00744	0.027647	-3.2e-04
4D	0.003984	-4.6e-04	-0.01323	-0.00773	0.026601	-3.6e-04
5D	-3.5e-04	6.15e-04	0.012996	-0.00619	0.003435	3.40e-05
6D	-3.2e-04	5.89e-04	0.012639	-0.00597	0.004117	-5.3e-05
7D	-4.4e-04	7.68e-04	0.016142	-0.00770	0.004267	4.24e-05
8D	-4.0e-04	7.35e-04	0.015698	-0.00742	0.005114	-6.6e-05
9D	-4.1e-05	-1.4e-05	-0.01225	-0.00494	-0.00285	4.02e-06
10D	-5.8e-05	-1.9e-05	-0.01718	-0.00693	-0.00400	5.63e-06
11D	0.003199	-3.6e-04	-0.00869	-0.00523	0.019139	-2.6e-04
12D	0.003225	-3.8e-04	-0.00921	-0.00540	0.018402	-3.0e-04
13D	0.008263	-9.2e-04	-0.02595	-0.01541	0.057207	-6.7e-04
14D	0.008344	-9.6e-04	-0.02738	-0.01601	0.055042	-7.6e-04
15D	-3.8e-04	7.19e-04	0.012035	-0.00590	0.003192	3.75e-05
16D	-3.5e-04	6.89e-04	0.011703	-0.00569	0.003816	-6.1e-05
17D	-9.2e-04	0.001630	0.033591	-0.01605	0.008882	8.95e-05
18D	-8.4e-04	0.001560	0.032667	-0.01548	0.010643	-1.4e-04
19D	-4.0e-05	-1.3e-05	-0.01147	-0.00463	-0.00267	3.91e-06
20D	-1.5e-04	-4.8e-05	-0.04212	-0.01702	-0.00981	1.44e-05

Nodo 325

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.16e-04	-5.0e-05	-0.09836	-0.02719	-0.11672	0.
2S	8.62e-05	-3.3e-05	-0.04552	-0.01059	-0.05362	0.
1D	0.003172	-5.2e-04	-0.01546	-0.00899	0.008604	0.
2D	0.003203	-5.6e-04	-0.01561	-0.00908	0.008411	0.
3D	0.003946	-6.5e-04	-0.01917	-0.01115	0.010673	0.
4D	0.003985	-7.0e-04	-0.01935	-0.01127	0.010434	0.
5D	-3.5e-04	6.09e-04	0.007007	-0.00327	0.010229	0.
6D	-3.2e-04	5.71e-04	0.006535	-0.00305	0.009727	0.
7D	-4.4e-04	7.60e-04	0.008704	-0.00407	0.012706	0.
8D	-4.0e-04	7.13e-04	0.008117	-0.00379	0.012082	0.
9D	-4.1e-05	-1.5e-05	-0.00710	-0.00262	-0.00856	0.
10D	-5.8e-05	-2.1e-05	-0.00997	-0.00367	-0.01201	0.
11D	0.003199	-5.4e-04	-0.01323	-0.00774	0.007455	0.
12D	0.003225	-5.8e-04	-0.01336	-0.00782	0.007293	0.
13D	0.008264	-0.00137	-0.03966	-0.02307	0.022097	0.
14D	0.008345	-0.00147	-0.04004	-0.02332	0.021605	0.
15D	-3.8e-04	7.12e-04	0.006496	-0.00313	0.009478	0.
16D	-3.5e-04	6.69e-04	0.006052	-0.00290	0.009012	0.
17D	-9.2e-04	0.001614	0.018114	-0.00848	0.026441	0.
18D	-8.4e-04	0.001515	0.016892	-0.00790	0.025143	0.
19D	-4.0e-05	-1.42e-05	-0.00665	-0.00247	-0.00801	0.
20D	-1.5e-04	5.22e-05	-0.02443	-0.00907	-0.02944	0.

Nodo 326

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.15e-04	-8.4e-05	-7.6e-04	-8.2e-05	-0.09633	-6.1e-06
2S	8.54e-05	-4.3e-05	-9.2e-05	-3.2e-05	-0.04554	9.79e-07
1D	0.003169	-7.1e-04	-2.2e-04	1.05e-04	-0.03733	-3.3e-04
2D	0.003201	-7.7e-04	-2.2e-04	1.03e-04	-0.03707	-3.6e-04
3D	0.003943	-8.8e-04	-2.7e-04	1.31e-04	-0.04630	-4.1e-04
4D	0.003982	-9.6e-04	-2.8e-04	1.28e-04	-0.04597	-4.5e-04
5D	-3.5e-04	5.92e-04	5.96e-05	-1.6e-05	0.006051	4.68e-05
6D	-3.2e-04	5.49e-04	5.81e-05	-1.5e-05	0.005615	6.13e-05
7D	-4.4e-04	7.40e-04	7.44e-05	-1.9e-05	0.007516	5.84e-05
8D	-4.0e-04	6.86e-04	7.25e-05	-1.9e-05	0.006974	7.65e-05
9D	-4.1e-05	1.65e-05	-1.0e-05	-6.2e-06	-0.00731	5.75e-06
10D	-5.8e-05	2.31e-05	-1.4e-05	-8.6e-06	-0.01025	8.06e-06
11D	0.003196	-7.2e-04	-2.2e-04	1.03e-04	-0.03197	-3.3e-04
12D	0.003223	-8.0e-04	-2.3e-04	9.92e-05	-0.03174	-3.6e-04
13D	0.008258	-0.00184	-5.7e-04	2.74e-04	-0.09579	-8.6e-04
14D	0.008339	-0.00201	-5.8e-04	2.66e-04	-0.09510	-9.5e-04
15D	-3.8e-04	6.92e-04	6.84e-05	-1.6e-05	0.005623	5.18e-05
16D	-3.5e-04	6.43e-04	6.68e-05	-1.6e-05	0.005203	7.02e-05
17D	-9.2e-04	0.001570	1.58e-04	-4.1e-05	0.015645	1.23e-04
18D	-8.4e-04	0.001457	1.54e-04	-4.0e-05	0.014513	1.62e-04
19D	-4.0e-05	1.58e-05	-9.6e-06	-5.8e-06	-0.00684	5.56e-06
20D	-1.5e-04	5.81e-05	-3.5e-05	-2.1e-05	-0.02513	2.04e-05

16D	-3.5e-04	6.82e-04	4.87e-05	-8.0e-05	-0.00538	5.94e-05
17D	-9.5e-04	0.001492	1.16e-04	-1.8e-04	-0.01357	1.08e-04
18D	-8.5e-04	0.001545	1.13e-04	-1.8e-04	-0.01505	1.36e-04
19D	-4.1e-05	-1.0e-05	-9.5e-06	-3.0e-06	0.007773	2.99e-06
20D	-1.5e-04	-3.7e-05	-3.5e-05	-1.1e-05	0.028552	1.10e-05

Nodo 328

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.42e-04	5.28e-05	-0.10227	-0.02363	0.127791	-4.5e-05
2S	9.52e-05	-2.2e-06	-0.04682	-0.01087	0.058553	-1.3e-05
1D	0.003283	3.17e-05	0.027570	0.007511	-0.00975	-2.0e-04
2D	0.003328	4.53e-05	0.026957	0.007551	-0.00933	-2.3e-04
3D	0.004085	3.95e-05	0.034195	0.009318	-0.01209	-2.5e-04
4D	0.004141	5.65e-05	0.033434	0.009366	-0.01157	-2.8e-04
5D	-3.6e-04	5.87e-04	0.006347	-0.00305	-0.00964	4.03e-05
6D	-3.2e-04	5.93e-04	0.006806	-0.00346	-0.01014	4.83e-05
7D	-4.5e-04	7.33e-04	0.007883	-0.00379	-0.01198	5.02e-05
8D	-4.0e-04	7.40e-04	0.008454	-0.00430	-0.01260	6.03e-05
9D	-4.3e-05	-1.1e-05	-0.00738	-0.00215	0.009327	3.65e-06
10D	-6.0e-05	-1.5e-05	-0.01035	-0.00301	0.013085	5.11e-06
11D	0.003311	3.43e-05	0.023668	0.006532	-0.00845	-2.0e-04
12D	0.003353	4.83e-05	0.023153	0.006539	-0.00810	-2.3e-04
13D	0.008555	8.32e-05	0.070756	0.019298	-0.02504	-5.2e-04
14D	0.008672	1.19e-04	0.069184	0.019392	-0.02396	-5.9e-04
15D	-3.9e-04	6.88e-04	0.005873	-0.00293	-0.00894	4.57e-05
16D	-3.5e-04	6.94e-04	0.006306	-0.00334	-0.00941	5.58e-05
17D	-9.5e-04	0.001557	0.016403	-0.00791	-0.02493	1.06e-04
18D	-8.5e-04	0.001572	0.017593	-0.00898	-0.02622	1.28e-04
19D	-4.1e-05	-1.1e-05	-0.00691	-0.00203	0.008732	3.53e-06
20D	-1.5e-04	-3.9e-05	-0.02537	-0.00745	0.032072	1.30e-05

Nodo 329

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.40e-04	1.74e-05	-0.18622	-0.04363	0.056719	-4.0e-05
2S	9.43e-05	-1.2e-05	-0.08517	-0.02010	0.025755	-1.2e-05
1D	0.003281	-1.8e-04	0.022303	0.005370	0.023217	-2.2e-04
2D	0.003326	-1.7e-04	0.021713	0.005704	0.022949	-2.5e-04
3D	0.004082	-2.3e-04	0.027662	0.006664	0.028794	-2.7e-04
4D	0.004138	-2.1e-04	0.026932	0.007079	0.028462	-3.1e-04
5D	-3.6e-04	6.06e-04	0.013194	-0.00577	-0.00549	3.16e-05
6D	-3.2e-04	5.96e-04	0.013521	-0.00600	-0.00474	-5.1e-05
7D	-4.5e-04	7.57e-04	0.016388	-0.00717	-0.00682	3.94e-05
8D	-4.0e-04	7.44e-04	0.016794	-0.00746	-0.00588	-6.3e-05
9D	-4.3e-05	-1.2e-05	-0.01353	-0.00360	0.004454	3.51e-06
10D	-6.0e-05	-1.7e-05	-0.01897	-0.00505	0.006248	4.93e-06
11D	0.003309	-1.9e-04	0.019190	0.004766	0.019891	-2.2e-04
12D	0.003351	-1.8e-04	0.018711	0.005035	0.019651	-2.6e-04
13D	0.008549	-4.8e-04	0.057248	0.013821	0.059572	-5.7e-04
14D	0.008666	-4.5e-04	0.055742	0.014675	0.058883	-6.6e-04
15D	-3.9e-04	7.10e-04	0.012222	-0.00553	-0.00509	3.50e-05
16D	-3.5e-04	6.98e-04	0.012533	-0.00575	-0.00439	-5.9e-05
17D	-9.5e-04	0.001607	0.034103	-0.01496	-0.01419	8.31e-05
18D	-8.5e-04	0.001580	0.034951	-0.01556	-0.01224	-1.3e-04
19D	-4.1e-05	-1.2e-05	-0.01266	-0.00338	0.004170	3.43e-06
20D	-1.5e-04	-4.3e-05	-0.04651	-0.01243	0.015317	1.26e-05

Nodo 330

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.37e-04	-1.7e-05	-0.19153	-0.04433	-0.04454	-3.8e-05
2S	9.34e-05	-2.3e-05	-0.08765	-0.02043	-0.02007	-1.2e-05
1D	0.003280	-3.5e-04	-0.01200	0.005700	0.026322	-2.2e-04
2D	0.003325	-3.6e-04	-0.01271	-0.00597	0.025402	-2.5e-04
3D	0.004080	-4.4e-04	-0.01488	0.007073	0.032646	-2.7e-04
4D	0.004136	-4.5e-04	-0.01576	-0.00741	0.031505	-3.1e-04
5D	-3.6e-04	6.14e-04	0.014105	-0.00648	0.003531	3.08e-05
6D	-3.2e-04	5.88e-04	0.013725	-0.00610	0.004336	-5.2e-05
7D	-4.5e-04	7.67e-04	0.017520	-0.00806	0.004386	3.84e-05
8D	-4.0e-04	7.35e-04	0.017048	-0.00758	0.005387	-6.4e-05
9D	-4.3e-05	-1.3e-05	-0.01401	-0.00367	-0.00329	3.51e-06
10D	-6.0e-05	-1.9e-05	-0.01965	-0.00515	-0.00462	4.92e-06
11D	0.003308	-3.6e-04	-0.01028	0.005026	0.022590	-2.2e-04
12D	0.003350	-3.8e-04	-0.01090	0.005259	0.021791	-2.6e-04
13D	0.008546	-9.1e-04	-0.03078	0.014663	0.067549	-5.7e-04
14D	0.008663	-9.5e-04	-0.03261	-0.01535	0.065188	-6.5e-04
15D	-3.9e-04	7.19e-04	0.013069	-0.00622	0.003273	3.40e-05
16D	-3.5e-04	6.88e-04	0.012718	-0.00585	0.004026	-5.9e-05
17D	-9.5e-04	0.001629	0.036459	-0.01682	0.009127	8.11e-05
18D	-8.5e-04	0.001560	0.035477	-0.01582	0.011211	-1.4e-04
19D	-4.1e-05	-1.3e-05	-0.01311	-0.00345	-0.00308	3.42e-06
20D	-1.5e-04	-4.7e-05	-0.04816	-0.01267	-0.01133	1.26e-05

Nodo 331

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.35e-04	-5.2e-05	-0.11003	-0.02528	-0.13345	0.
2S	9.23e-05	-3.3e-05	-0.05046	-0.01164	-0.06119	0.
1D	0.003279	-5.2e-04	-0.01906	-0.00883	0.009882	0.
2D	0.003324	-5.6e-04	-0.01923	-0.00874	0.009750	0.
3D	0.004079	-6.5e-04	-0.02364	-0.01096	0.012259	0.
4D	0.004135	-6.9e-04	-0.02384	-0.01084	0.012095	0.
5D	-3.6e-04	6.09e-04	0.007598	-0.00451	0.011033	0.

6D	-3.2e-04	5.71e-04	0.007127	-0.00399	0.010436	0.
7D	-4.5e-04	7.60e-04	0.009438	-0.00560	0.013704	0.
8D	-4.0e-04	7.13e-04	0.008853	-0.00495	0.012963	0.
9D	-4.3e-05	-1.5e-05	-0.00810	-0.00236	-0.00981	0.
10D	-6.0e-05	-2.1e-05	-0.01136	-0.00331	-0.01376	0.
11D	0.003307	-5.3e-04	-0.01627	-0.00768	0.008567	0.
12D	0.003349	-5.8e-04	-0.01640	-0.00758	0.008465	0.
13D	0.008543	-0.00135	-0.04890	-0.02269	0.025383	0.
14D	0.008660	-0.00146	-0.04932	-0.02245	0.025046	0.
15D	-3.9e-04	7.12e-04	0.007036	-0.00433	0.010232	0.
16D	-3.5e-04	6.69e-04	0.006597	-0.00382	0.009678	0.
17D	-9.5e-04	0.001613	0.019640	-0.01169	0.028522	0.
18D	-8.5e-04	0.001515	0.018422	-0.01034	0.026978	0.
19D	-4.1e-05	1.41e-05	-0.00758	-0.00223	-0.00918	0.
20D	-1.5e-04	5.19e-05	-0.02785	-0.00819	-0.03372	0.

Nodo 332

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.30e-04	-8.6e-05	-7.8e-04	-2.4e-05	-0.10485	-7.3e-05
2S	9.04e-05	-4.4e-05	-1.0e-04	-6.7e-06	-0.04863	-2.7e-05
1D	0.003285	-6.9e-04	-1.7e-04	1.29e-04	-0.04579	-1.9e-04
2D	0.003330	-7.6e-04	-1.7e-04	1.38e-04	-0.04554	-2.2e-04
3D	0.004087	-8.6e-04	-2.1e-04	1.60e-04	-0.05678	-2.4e-04
4D	0.004143	-9.4e-04	-2.1e-04	1.71e-04	-0.05647	-2.7e-04
5D	-3.6e-04	5.93e-04	4.44e-05	-6.8e-05	0.006192	3.39e-05
6D	-3.2e-04	5.50e-04	4.36e-05	-6.3e-05	0.005847	-5.6e-05
7D	-4.5e-04	7.40e-04	5.53e-05	-8.5e-05	0.007690	4.24e-05
8D	-4.0e-04	6.87e-04	5.44e-05	-7.8e-05	0.007262	-7.0e-05
9D	-4.3e-05	1.64e-05	-1.1e-05	-2.0e-06	-0.00833	-5.5e-06
10D	-6.0e-05	2.31e-05	-1.6e-05	-2.9e-06	-0.01169	-7.7e-06
11D	0.003311	-7.1e-04	-1.7e-04	1.31e-04	-0.03913	-1.9e-04
12D	0.003353	-7.8e-04	-1.8e-04	1.41e-04	-0.03890	-2.2e-04
13D	0.008560	-0.00181	-4.3e-04	3.36e-04	-0.11746	-5.1e-04
14D	0.008675	-0.00198	-4.5e-04	3.59e-04	-0.11681	-5.7e-04
15D	-3.9e-04	6.93e-04	5.03e-05	-7.9e-05	0.005710	3.86e-05
16D	-3.5e-04	6.43e-04	4.97e-05	-7.3e-05	0.005381	-6.5e-05
17D	-9.5e-04	0.001571	1.17e-04	-1.8e-04	0.015997	8.97e-05
18D	-8.5e-04	0.001458	1.15e-04	-1.7e-04	0.015104	-1.4e-04
19D	-4.2e-05	1.58e-05	-1.1e-05	-2.0e-06	-0.00780	-5.2e-06
20D	-1.5e-04	5.79e-05	-4.0e-05	-7.3e-06	-0.02865	-1.9e-05

Nodo 333

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.59e-04	8.22e-05	-7.3e-04	3.44e-05	0.120902	-3.5e-05
2S	1.01e-04	5.85e-06	-8.5e-05	2.51e-05	0.056657	-1.3e-05
1D	0.003381	1.66e-04	1.28e-04	1.63e-05	-0.06344	-2.2e-04
2D	0.003441	2.24e-04	1.34e-04	1.94e-05	-0.06277	-2.6e-04
3D	0.004206	2.06e-04	1.59e-04	2.03e-05	-0.07868	-2.7e-04
4D	0.004281	2.80e-04	1.66e-04	2.41e-05	-0.07785	-3.3e-04
5D	-3.7e-04	5.61e-04	2.99e-05	-8.8e-06	0.00615	3.94e-05
6D	-3.3e-04	5.82e-04	2.87e-05	-9.3e-06	-0.00694	-6.5e-05
7D	-4.6e-04	7.01e-04	3.73e-05	-1.1e-05	-0.00764	4.91e-05
8D	-4.1e-04	7.26e-04	3.58e-05	-1.2e-05	-0.00863	-8.2e-05
9D	-4.4e-05	-1.1e-05	-8.7e-06	5.07e-06	0.009350	-5.5e-06
10D	-6.2e-05	-1.5e-05	-1.2e-05	7.11e-06	0.013117	-7.7e-06
11D	0.003409	1.67e-04	1.32e-04	1.58e-05	-0.05441	-2.3e-04
12D	0.003468	2.34e-04	1.38e-04	1.89e-05	-0.05386	-2.8e-04
13D	0.008809	4.32e-04	3.34e-04	4.23e-05	-0.16280	-5.7e-04
14D	0.008965	5.87e-04	3.49e-04	5.03e-05	-0.16109	-6.9e-04
15D	-4.0e-04	6.58e-04	3.35e-05	-9.2e-06	-0.00569	4.43e-05
16D	-3.5e-04	6.80e-04	3.19e-05	-9.4e-06	-0.00644	-7.6e-05</

Nodo 335						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.58e-04	1.49e-05	-0.20123	-0.02374	0.057473	-4.1e-05
2S	1.00e-04	-1.3e-05	-0.09211	-0.01105	0.025079	-1.4e-05
1D	0.003382	-1.9e-04	0.023719	0.002797	0.026069	-2.3e-04
2D	0.003442	-1.7e-04	0.023299	0.003447	0.025745	-2.6e-04
3D	0.004207	-2.3e-04	0.029420	0.003475	0.032332	-2.8e-04
4D	0.004282	-2.2e-04	0.028899	0.004281	0.031929	-3.3e-04
5D	-3.7e-04	6.06e-04	0.013993	-0.00531	-0.00562	3.24e-05
6D	-3.3e-04	5.96e-04	0.014388	-0.00550	-0.00469	-5.4e-05
7D	-4.6e-04	7.57e-04	0.017381	-0.00660	-0.00698	4.04e-05
8D	-4.1e-04	7.44e-04	0.017873	-0.00684	-0.00583	-6.8e-05
9D	-4.4e-05	-1.2e-05	-0.01460	-0.00218	0.004545	3.71e-06
10D	-6.2e-05	-1.7e-05	-0.02049	-0.00306	0.006376	5.21e-06
11D	0.003412	-1.9e-04	0.020426	0.002628	0.022340	-2.3e-04
12D	0.003471	-1.8e-04	0.020081	0.003178	0.022046	-2.7e-04
13D	0.008812	-4.9e-04	0.060889	0.007237	0.066892	-5.9e-04
14D	0.008969	-4.6e-04	0.059813	0.008903	0.066057	-6.9e-04
15D	-4.0e-04	7.09e-04	0.012995	-0.00510	-0.00522	3.58e-05
16D	-3.6e-04	6.97e-04	0.013372	-0.00530	-0.00436	-6.3e-05
17D	-9.8e-04	0.001606	0.036177	-0.01377	-0.01453	8.53e-05
18D	-8.6e-04	0.001579	0.037203	-0.01428	-0.01213	-1.4e-04
19D	-4.3e-05	-1.2e-05	-0.01367	-0.00205	0.004260	3.62e-06
20D	-1.6e-04	-4.2e-05	-0.05022	-0.00755	0.015647	1.33e-05

Nodo 336						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.55e-04	-1.8e-05	-0.20667	-0.02363	-0.04503	-4.1e-05
2S	9.93e-05	-2.3e-05	-0.09466	-0.01102	-0.01926	-1.4e-05
1D	0.003380	-3.5e-04	-0.01353	-0.00535	0.029990	-2.3e-04
2D	0.003440	-3.6e-04	-0.01444	0.005594	0.029070	-2.6e-04
3D	0.004205	-4.3e-04	-0.01678	-0.00663	0.037196	-2.8e-04
4D	0.004279	-4.5e-04	-0.01791	0.006944	0.036054	-3.3e-04
5D	-3.7e-04	6.14e-04	0.015044	-0.00619	0.003287	3.24e-05
6D	-3.3e-04	5.88e-04	0.014576	-0.00578	0.004257	-5.4e-05
7D	-4.6e-04	7.67e-04	0.018686	-0.00770	0.004083	4.05e-05
8D	-4.1e-04	7.34e-04	0.018106	-0.00719	0.005288	-6.7e-05
9D	-4.4e-05	-1.3e-05	-0.01510	-0.00220	-0.00337	3.70e-06
10D	-6.2e-05	-1.9e-05	-0.02118	-0.00309	-0.00473	5.19e-06
11D	0.003409	-3.6e-04	-0.01157	0.004751	0.025735	-2.3e-04
12D	0.003468	-3.7e-04	-0.01236	0.005015	0.024938	-2.7e-04
13D	0.008806	-9.0e-04	-0.03471	0.013761	0.076963	-5.9e-04
14D	0.008963	-9.4e-04	-0.03704	0.014411	0.074600	-6.8e-04
15D	-4.0e-04	7.19e-04	0.013975	-0.00596	0.003055	3.59e-05
16D	-3.5e-04	6.88e-04	0.013542	-0.00557	0.003961	-6.2e-05
17D	-9.8e-04	0.001629	0.038895	-0.01607	0.008498	8.55e-05
18D	-8.5e-04	0.001559	0.037687	-0.01500	0.011009	-1.4e-04
19D	-4.3e-05	-1.3e-05	-0.01413	-0.00208	-0.00317	3.61e-06
20D	-1.6e-04	-4.7e-05	-0.05191	-0.00763	-0.01163	1.33e-05

Nodo 337						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.53e-04	-5.3e-05	-0.12063	-0.02229	-0.14271	0.
2S	9.82e-05	-3.4e-05	-0.05576	-0.01217	-0.06560	0.
1D	0.003380	-5.1e-04	-0.02240	-0.00784	0.010403	0.
2D	0.003440	-5.5e-04	-0.02252	-0.00774	0.010349	0.
3D	0.004205	-6.4e-04	-0.02778	-0.00973	0.012906	0.
4D	0.004279	-6.9e-04	-0.02792	-0.00960	0.012839	0.
5D	-3.7e-04	6.09e-04	0.008509	-0.00489	0.011209	0.
6D	-3.2e-04	5.72e-04	0.007893	-0.00431	0.010547	0.
7D	-4.6e-04	7.60e-04	0.010570	-0.00608	0.013923	0.
8D	-4.0e-04	7.14e-04	0.009805	-0.00535	0.013101	0.
9D	-4.4e-05	-1.5e-05	-0.00892	-0.00186	-0.01037	0.
10D	-6.2e-05	-2.1e-05	-0.01251	-0.00261	-0.01454	0.
11D	0.003409	-5.3e-04	-0.01910	-0.00686	0.009072	0.
12D	0.003468	-5.7e-04	-0.01919	-0.00680	0.009027	0.
13D	0.008806	-0.00134	-0.05745	-0.02016	0.026733	0.
14D	0.008962	-0.00144	-0.05775	-0.01989	0.026596	0.
15D	-4.0e-04	7.12e-04	0.007903	-0.00470	0.010422	0.
16D	-3.5e-04	6.69e-04	0.007327	-0.00414	0.009807	0.
17D	-9.8e-04	0.001614	0.022000	-0.01269	0.028983	0.
18D	-8.5e-04	0.001515	0.020407	-0.01117	0.027272	0.
19D	-4.3e-05	1.40e-05	-0.00835	-0.00177	-0.00970	0.
20D	-1.6e-04	5.16e-05	-0.03067	-0.00650	-0.03565	0.

Nodo 338						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.51e-04	-8.9e-05	-7.7e-04	5.52e-05	-0.11891	-3.6e-05
2S	9.75e-05	-4.5e-05	-9.3e-05	2.44e-05	-0.05592	-1.1e-05
1D	0.003376	-6.8e-04	-1.3e-04	4.48e-05	-0.05280	-2.4e-04
2D	0.003436	-7.4e-04	-1.3e-04	4.38e-05	-0.05237	-2.9e-04
3D	0.004201	-8.4e-04	-1.6e-04	5.58e-05	-0.06548	-3.0e-04
4D	0.004275	-9.2e-04	-1.6e-04	5.46e-05	-0.06494	-3.6e-04
5D	-3.7e-04	5.93e-04	3.01e-05	9.58e-06	0.007631	4.77e-05
6D	-3.2e-04	5.50e-04	3.01e-05	1.03e-05	0.006996	6.48e-05
7D	-4.6e-04	7.40e-04	3.75e-05	1.19e-05	0.009478	5.95e-05
8D	-4.0e-04	6.87e-04	3.75e-05	1.29e-05	0.008689	8.09e-05
9D	-4.4e-05	1.64e-05	-9.9e-06	4.89e-06	-0.00957	3.82e-06
10D	-6.2e-05	2.30e-05	-1.4e-05	6.87e-06	-0.01343	5.35e-06

11D	0.003405	-6.9e-04	-1.3e-04	4.65e-05	-0.04510	-2.5e-04
12D	0.003464	-7.7e-04	-1.4e-04	4.54e-05	-0.04471	-3.1e-04
13D	0.008798	-0.00176	-3.4e-04	1.17e-04	-0.13544	-6.3e-04
14D	0.008954	-0.00194	-3.4e-04	1.15e-04	-0.13433	-7.6e-04
15D	-4.0e-04	6.93e-04	3.36e-05	9.53e-06	0.007073	5.36e-05
16D	-3.5e-04	6.44e-04	3.40e-05	1.10e-05	0.006471	7.49e-05
17D	-9.8e-04	0.001572	7.93e-05	2.49e-05	0.019724	1.26e-04
18D	-8.5e-04	0.001458	7.93e-05	2.71e-05	0.018080	1.72e-04
19D	-4.3e-05	1.57e-05	-9.3e-06	4.59e-06	-0.00897	3.78e-06
20D	-1.6e-04	5.77e-05	-3.4e-05	1.69e-05	-0.03294	1.39e-05

Nodo 339						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.76e-04	7.79e-05	-7.3e-04	-1.3e-05	0.127531	-3.9e-05
2S	1.07e-04	4.82e-06	-8.3e-05	-2.2e-07	0.060561	-1.2e-05
1D	0.003472	1.44e-04	1.26e-04	-1.5e-05	-0.06699	-1.9e-04
2D	0.003548	2.05e-04	1.31e-04	-2.3e-05	-0.06643	-2.2e-04
3D	0.004320	1.80e-04	1.57e-04	-1.9e-05	-0.08308	-2.3e-04
4D	0.004414	2.55e-04	1.63e-04	-2.8e-05	-0.08239	-2.7e-04
5D	-3.8e-04	5.60e-04	2.01e-05	-6.4e-05	-0.00670	3.98e-05
6D	-3.3e-04	5.81e-04	1.93e-05	-6.6e-05	-0.00769	5.20e-05
7D	-4.8e-04	6.99e-04	2.50e-05	-8.0e-05	-0.00832	4.97e-05
8D	-4.1e-04	7.25e-04	2.41e-05	-8.2e-05	-0.00955	6.49e-05
9D	-4.6e-05	-1.1e-05	-7.9e-06	1.66e-06	0.009899	3.37e-06
10D	-6.4e-05	-1.5e-05	-1.1e-05	2.33e-06	0.013887	4.73e-06
11D	0.003503	1.46e-04	1.31e-04	-1.5e-05	-0.05746	-1.9e-04
12D	0.003579	2.14e-04	1.36e-04	-2.4e-05	-0.05701	-2.3e-04
13D	0.009048	3.77e-04	3.31e-04	-3.9e-05	-0.17191	-4.9e-04
14D	0.009245	5.35e-04	3.43e-04	-5.9e-05	-0.17049	-5.7e-04
15D	-4.2e-04	6.56e-04	2.13e-05	-7.5e-05	-0.00622	4.52e-05
16D	-3.6e-04	6.79e-04	2.02e-05	-7.7e-05	-0.00716	6.03e-05
17D	-0.00100	0.001485	5.27e-05	-1.7e-04	-0.01732	1.05e-04
18D	-8.6e-04	0.001540	5.05e-05	-1.7e-04	-0.01988	1.38e-04
19D	-4.4e-05	-1.0e-05	-7.5e-06	1.58e-06	0.009274	3.28e-06
20D	-1.6e-04	-3.7e-05	-2.7e-05	5.81e-06	0.034063	1.21e-05

Nodo 340						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.77e-04	4.58e-05	-0.11634	1.73e-04	0.142673	0.
2S	1.07e-04	-4.7e-06	-0.05410	8.43e-05	0.065686	0.
1D	0.003478	3.44e-05	0.031229	0.001137	-0.00965	0.
2D	0.003553	3.24e-05	0.030799	0.001249	0.009678	0.
3D	0.004327	4.29e-05	0.038732	0.001414	-0.01197	0.
4D	0.004421	4.04e-05	0.038199	0.001554	0.012008	0.
5D	-3.8e-04	5.86e-04	0.007253	-0.00220	-0.01040	0.
6D	-3.3e-04	5.92e-04	0.007938	-0.00247	-0.01101	0.
7D	-4.8e-04	7.32e-04	0.009010	-0.00274	-0.01292	0.
8D	-4.1e-04	7.39e-04	0.009861	-0.00308	-0.01368	0.
9D	-4.6e-05	-1.1e-05	-0.00840	6.71e-04	0.010211	0.
10D	-6.4e-05	-1.5e-05	-0.01179	9.41e-04	0.014323	0.
11D	0.003509	3.81e-05	0.026816	0.001131	-0.00853	0.
12D	0.003585	3.49e-05	0.026456	0.001255	0.008519	0.
13D	0.009062	9.06e-05	0.080147	0.002958	-0.02482	0.
14D	0.009260	8.52e-05	0.079045	0.003255	0.024889	0.
15D	-4.2e-04	6.87e-04	0.006755	-0.00212	-0.00970	0.
16D	-3.6e-04	6.93e-04	0.007403	-0.00243	-0.01028	0.
17D	-0.00101	0.001554	0.018757	-0.00571	-0.02691	0.
18D	-8.7e-04	0.001569	0.020531	-0.00643	-0.02849	0.
19D	-4.4e-05	-1.0e-05	-0.00787	6.30e-04	0.009560	0.
20D	-1.6e-04	-3.8e-05	-0.02890	0.002314	0.035114	0.

Nodo 341

1D	0.003474	-3.4e-04	-0.01459	-0.00469	0.031560	-2.0e-04
2D	0.003550	-3.6e-04	-0.01573	-0.00485	0.030809	-2.4e-04
3D	0.004322	-4.3e-04	-0.01810	-0.00582	0.039142	-2.5e-04
4D	0.004416	-4.4e-04	-0.01951	-0.00603	0.038211	-3.0e-04
5D	-3.8e-04	6.15e-04	0.015589	-0.00529	0.002815	3.11e-05
6D	-3.3e-04	5.88e-04	0.015033	-0.00500	0.003867	-5.4e-05
7D	-4.8e-04	7.67e-04	0.019366	-0.00657	0.003497	3.88e-05
8D	-4.1e-04	7.35e-04	0.018675	-0.00621	0.004804	-6.7e-05
9D	-4.6e-05	-1.3e-05	-0.01537	0.001363	-0.00328	3.53e-06
10D	-6.4e-05	-1.8e-05	-0.02156	0.001912	-0.00461	4.96e-06
11D	0.003505	-3.6e-04	-0.01249	-0.00417	0.027079	-2.1e-04
12D	0.003582	-3.7e-04	-0.01347	0.004385	0.026434	-2.5e-04
13D	0.009053	-9.0e-04	-0.03744	-0.01208	0.080990	-5.3e-04
14D	0.009250	-9.3e-04	-0.04036	-0.01251	0.079063	-6.3e-04
15D	-4.2e-04	7.19e-04	0.014536	-0.00509	0.002633	3.45e-05
16D	-3.6e-04	6.89e-04	0.014019	-0.00481	0.003606	-6.2e-05
17D	-0.00101	0.001629	0.040321	-0.01371	0.007282	8.19e-05
18D	-8.6e-04	0.001560	0.038884	-0.01296	0.010001	-1.4e-04
19D	-4.4e-05	-1.3e-05	-0.01439	0.001280	-0.00310	3.45e-06
20D	-1.6e-04	-4.6e-05	-0.05286	0.004702	-0.01137	1.27e-05

Nodo 343

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.71e-04	-5.4e-05	-0.12559	4.98e-07	-0.14491	0.
2S	1.04e-04	-3.4e-05	-0.05847	-2.2e-06	-0.06668	0.
1D	0.003473	-5.0e-04	-0.02480	-0.00477	0.010523	0.
2D	0.003548	-5.4e-04	-0.02493	-0.00488	0.010584	0.
3D	0.004320	-6.3e-04	-0.03075	-0.00592	0.013056	0.
4D	0.004414	-6.8e-04	-0.03091	-0.00605	0.013132	0.
5D	-3.8e-04	6.10e-04	0.009247	-0.00384	0.011290	0.
6D	-3.3e-04	5.72e-04	0.008489	-0.00351	0.010582	0.
7D	-4.8e-04	7.61e-04	0.011487	-0.00477	0.014025	0.
8D	-4.1e-04	7.14e-04	0.010546	-0.00436	0.013146	0.
9D	-4.6e-05	-1.5e-05	-0.00924	-8.4e-04	-0.01043	0.
10D	-6.4e-05	-2.0e-05	-0.01296	-0.00118	-0.01464	0.
11D	0.003504	-5.2e-04	-0.02116	-0.00429	0.009238	0.
12D	0.003580	-5.6e-04	-0.02126	-0.00439	0.009290	0.
13D	0.009049	-0.00131	-0.06361	-0.01229	0.027057	0.
14D	0.009246	-0.00142	-0.06393	-0.01257	0.027215	0.
15D	-4.2e-04	7.13e-04	0.008630	-0.00370	0.010534	0.
16D	-3.6e-04	6.70e-04	0.007918	-0.00337	0.009874	0.
17D	-0.00101	0.001616	0.023919	-0.00996	0.029203	0.
18D	-8.6e-04	0.001517	0.021958	-0.00910	0.027373	0.
19D	-4.4e-05	1.40e-05	-0.00865	-7.9e-04	-0.00977	0.
20D	-1.6e-04	5.13e-05	-0.03177	-0.00291	-0.03588	0.

Nodo 344

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.69e-04	-9.0e-05	-7.6e-04	7.38e-06	-0.12747	-4.2e-05
2S	1.03e-04	-4.5e-05	-8.9e-05	5.55e-06	-0.06070	-1.3e-05
1D	0.003468	-6.6e-04	-9.3e-05	1.09e-04	-0.05807	-1.7e-04
2D	0.003544	-7.3e-04	-9.5e-05	1.19e-04	-0.05754	-2.0e-04
3D	0.004315	-8.2e-04	-1.2e-04	1.36e-04	-0.07201	-2.1e-04
4D	0.004409	-9.1e-04	-1.2e-04	1.48e-04	-0.07136	-2.5e-04
5D	-3.8e-04	5.94e-04	1.78e-05	-6.7e-05	0.009065	3.19e-05
6D	-3.3e-04	5.51e-04	1.84e-05	-6.2e-05	0.008139	-5.6e-05
7D	-4.8e-04	7.41e-04	2.22e-05	-8.4e-05	0.011262	3.98e-05
8D	-4.1e-04	6.88e-04	2.29e-05	-7.7e-05	0.010110	-7.0e-05
9D	-4.6e-05	1.63e-05	-9.0e-06	-2.3e-06	-0.01028	3.15e-06
10D	-6.4e-05	2.28e-05	-1.3e-05	-3.2e-06	-0.01441	4.42e-06
11D	0.003499	-6.8e-04	-9.8e-05	1.12e-04	-0.04961	-1.7e-04
12D	0.003576	-7.5e-04	-9.9e-05	1.22e-04	-0.04914	-2.0e-04
13D	0.009037	-0.00172	-2.4e-04	2.85e-04	-0.14896	-4.4e-04
14D	0.009234	-0.00190	-2.5e-04	3.10e-04	-0.14760	-5.2e-04
15D	-4.1e-04	6.94e-04	1.90e-05	-7.9e-05	0.008468	3.63e-05
16D	-3.6e-04	6.45e-04	2.02e-05	-7.2e-05	0.007590	-6.5e-05
17D	-0.00100	0.001574	4.68e-05	-1.8e-04	0.023451	8.43e-05
18D	-8.6e-04	0.001460	4.84e-05	-1.6e-04	0.021050	-1.5e-04
19D	-4.4e-05	1.56e-05	-8.4e-06	-2.2e-06	-0.00963	3.07e-06
20D	-1.6e-04	5.74e-05	-3.1e-05	-8.0e-06	-0.03537	1.13e-05

Nodo 345

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.94e-04	7.33e-05	-7.4e-04	-7.0e-05	0.120972	-4.2e-05
2S	1.13e-04	3.65e-06	-8.5e-05	-2.4e-05	0.056691	-1.4e-05
1D	0.003561	1.23e-04	1.29e-04	2.22e-05	-0.06410	-2.3e-04
2D	0.003653	1.85e-04	1.33e-04	2.64e-05	-0.06404	-2.8e-04
3D	0.004431	1.53e-04	1.61e-04	2.76e-05	-0.07951	-2.9e-04
4D	0.004545	2.30e-04	1.66e-04	3.29e-05	-0.07942	-3.5e-04
5D	-3.9e-04	5.59e-04	-2.1e-05	-7.8e-06	-0.00660	3.76e-05
6D	-3.3e-04	5.80e-04	-2.1e-05	-8.7e-06	-0.00746	-6.6e-05
7D	-4.9e-04	6.98e-04	-2.6e-05	-9.7e-06	-0.00820	4.69e-05
8D	-4.2e-04	7.25e-04	-2.6e-05	-1.1e-05	-0.00927	-8.3e-05
9D	-4.7e-05	-1.1e-05	-8.1e-06	-4.0e-06	0.009348	3.85e-06
10D	-6.6e-05	-1.5e-05	-1.1e-05	-5.6e-06	0.013113	5.41e-06
11D	0.003593	1.26e-04	1.34e-04	2.38e-05	-0.05498	-2.3e-04
12D	0.003689	1.94e-04	1.38e-04	2.83e-05	-0.05495	-2.8e-04
13D	0.009281	3.22e-04	3.38e-04	5.82e-05	-0.16450	-6.0e-04
14D	0.009521	4.83e-04	3.48e-04	6.94e-05	-0.16434	-7.2e-04
15D	-4.3e-04	6.55e-04	-2.2e-05	8.24e-06	-0.00614	4.24e-05

16D	-3.6e-04	6.79e-04	-2.2e-05	-8.8e-06	-0.00697	-7.7e-05
17D	-0.00103	0.001483	-5.4e-05	-2.0e-05	-0.01707	9.91e-05
18D	-8.8e-04	0.001539	-5.5e-05	-2.3e-05	-0.01930	-1.8e-04
19D	-4.5e-05	-1.0e-05	-7.7e-06	-3.7e-06	0.008754	3.76e-06
20D	-1.7e-04	-3.7e-05	-2.8e-05	-1.4e-05	0.032153	1.38e-05

Nodo 346

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.94e-04	4.18e-05	-0.11182	0.020161	0.138953	0.
2S	1.12e-04	-6.0e-06	-0.05161	0.011109	0.063885	0.
1D	0.003565	4.02e-05	0.029885	-0.00565	0.009264	0.
2D	0.003657	2.91e-05	0.029810	-0.00481	0.009705	0.
3D	0.004436	5.02e-05	0.037065	-0.00701	0.011496	0.
4D	0.004550	3.63e-05	0.036973	-0.00597	0.012042	0.
5D	-3.9e-04	5.86e-04	0.007080	-0.00204	-0.01009	0.
6D	-3.3e-04	5.92e-04	0.007707	-0.00233	-0.01070	0.
7D	-4.9e-04	7.32e-04	0.008795	-0.00253	-0.01254	0.
8D	-4.2e-04	7.39e-04	0.009574	-0.00290	-0.01330	0.
9D	-4.7e-05	-1.1e-05	-0.00801	0.001827	0.009803	0.
10D	-6.6e-05	-1.5e-05	-0.01123	0.002563	0.013752	0.
11D	0.003598	4.39e-05	0.025661	-0.00490	-0.00816	0.
12D	0.003693	3.07e-05	0.025610	-0.00424	0.008534	0.
13D	0.009291	1.06e-04	0.076697	-0.01451	0.023829	0.
14D	0.009532	7.63e-05	0.076508	-0.01238	0.024958	0.
15D	-4.3e-04	6.86e-04	0.006615	-0.00193	-0.00945	0.
16D	-3.6e-04	6.93e-04	0.007212	-0.00221	-0.01002	0.
17D	-0.00103	0.001554	0.018315	-0.00527	-0.02612	0.
18D	-8.8e-04	0.001570	0.019939	-0.00604	-0.02769	0.
19D	-4.6e-05	-1.0e-05	-0.00750	0.001730	0.009178	0.
20D	-1.7e-04	-3.8e-05	-0.02753	0.006355	0.033711	0.

Nodo 347

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.93e-04	9.97e-06	-0.20072	0.024793	0.057095	-3.8e-05
2S	1.12e-04	-1.5e-05	-0.09188	0.011541	0.024910	-1.3e-05
1D	0.003563	-1.9e-04	0.022045	-0.00558	0.028138	-1.9e-04
2D	0.003655	-1.8e-04	0.022418	-0.00476	0.028204	-2.3e-04
3D	0.004433	-2.4e-04	0.027344	-0.00692	0.034898	-2.4e-04
4D	0.004547	-2.2e-04	0.027807	-0.00590	0.034979	-2.9e-04
5D	-3.9e-04	6.06e-04	0.014145	-0.00400	-0.00561	3.05e-05
6D	-3.3e-04	5.96e-04	0.014539	-0.00412	-0.00452	-5.0e-05
7D	-4.9e-04	7.57e-04	0.017573	-0.00497	-0.00697	3.81e-05
8D	-4.2e-04	7.44e-04	0.018063	-0.00512	-0.00562	-6.9e-05
9D	-4.7e-05	-1.2e-05	-0.01429	0.002600	0.004351	3.49e-06
10D	-6.6e-05	-1.7e-05	-0.02004	0.003647	0.006104	4.89e-06
11D	0.003596	-2.0e-04	0.019011	-0.00487	0.024109	-1.9e-04
12D	0.003691	-1.8e-04	0.019352	-0.00418	0.024169	-2.4e-04
13D	0.009284	-4.9e-04	0.056597	-0.01434	0.072200	-4.9e-04
14D	0.009525	-4.6e-04	0.057561	-0.01224	0.072369	-6.0e-04
15D	-4.3e-04	7.10e-04	0.013232	-0.00379	-0.00526	3.39e-05
16D	-3.6e-04	6.98e-04	0.013610	-0.00390	-0.00424	-6.4e-05
17D	-0.00103	0.001608	0.036598	-0.01037	-0.01452	8.04e-05
18D	-8.8e-04	0.001580	0.037620	-0.01067	-0.01171	-1.5e-04
19D	-4.6e-05	-1.1e-05	-0.01338	0.002438	0.004079	3.40e-06
20D	-1.7e-04	-4.2e-05	-0.04913	0.008955	0.014983	1.25e-05

Nodo 348

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.91e-04	-2.2e-05	-0.20620	0.024537	-0.04457	-3.9e-05
2S	1.11e-04	-2.5e-05	-0.09444	0.011430	-0.01905	-1.3e-05
1D	0.003561	-3.4e-04	-0.01506	-0.00415	0.031236	-1.9e-04
2D	0.003653	-3.5e-04	-0.01644	-0.00416	0.030807	-2.3e-04
3D	0.004430	-4.2e-04	-0.01868	-0.00515	0.038741	-2.4e-04
4D	0.004545	-4.4e-04	-0.02038	-0.00517	0.038209	-2.9e-04
5D	-3.9e-04	6.15e-04	0.015413	-0.00464	0.002809	3.08e-05
6D	-3.3e-04	5.89e-04	0.014840	-0.00439	0.003829	-5.5e-05
7D	-4.9e-04	7.68e-04	0.019148	-0.00577	0.003490	3.85e-05
8D	-4.2e-04	7.35e-04	0.018437	-0.00545	0.004757	-6.9e-05
9D	-4.7e-05	-1.3e-05	-0.01475	0.002680	-0.00329	3.48e-06
10D	-6.6e-05	-1.8e-05	-0.02070	0.003759	-0.00461	4.88e-06
11D	0.003594	-3.5e-04	-0.01289	-0.00365	0.026796	-2.0e-04
12D	0.003689	-3.7e-04	-0.01408	-0.00375	0.026436	-2.4e-04
13D	0.009279	-8.9e-04	-0.03864	-0.01067	0.080158	-5.0e-04
14D	0.009519	-9.3e-04	-0.04217	-0.01073	0.079060	-6.1e-04
15D	-4.3e-04	7.20e-04	0.014431	-0.00441	0.002633	3.43e-05
16D	-3.6e-04	6.89e-04	0.013896	-0.00416	0.003583	-6.4e-05
17D	-0.00103	0.001631	0.039881	-0.01203	0.007269	8.13e-05
18D	-8.8e-04	0.001561	0.038399	-0.01136	0.009906	-1.5e-04
19D	-4.6e-05	-1.3e-05	-0.01381	0.002514	-0.00309	3.39e-06
20D	-1.7e-04	-4.6e-05	-0.05073	0.009233	-0.01134	1.25e-05

6D	-3.3e-04	5.73e-04	0.008438	-0.00310	0.010296	0.
7D	-4.9e-04	7.62e-04	0.011393	-0.00425	0.013737	0.
8D	-4.1e-04	7.15e-04	0.010483	-0.00385	0.012791	0.
9D	-4.7e-05	-1.5e-05	-0.00878	0.002166	-0.01009	0.
10D	-6.6e-05	-2.0e-05	-0.01232	0.003038	-0.01415	0.
11D	0.003593	-5.1e-04	-0.02191	-0.00240	0.008594	0.
12D	0.003688	-5.6e-04	-0.02214	0.002685	0.008954	0.
13D	0.009278	-0.00129	-0.06586	-0.00641	0.025136	0.
14D	0.009518	-0.00140	-0.06655	0.007041	0.026155	0.
15D	-4.3e-04	7.14e-04	0.008598	-0.00323	0.010353	0.
16D	-3.6e-04	6.70e-04	0.007908	-0.00292	0.009640	0.
17D	-0.00103	0.001618	0.023731	-0.00886	0.028611	0.
18D	-8.7e-04	0.001519	0.021835	-0.00803	0.026641	0.
19D	-4.6e-05	-1.4e-05	-0.00822	0.002052	-0.00945	0.
20D	-1.7e-04	-5.1e-05	-0.03020	0.007536	-0.03470	0.

Nodo 350

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	3.87e-04	-9.1e-05	-7.6e-04	-4.5e-05	-0.11978	-4.3e-05
2S	1.09e-04	-4.5e-05	-9.0e-05	-2.2e-05	-0.05632	-1.7e-05
1D	0.003558	-6.4e-04	-6.1e-05	5.24e-05	-0.05908	-2.5e-04
2D	0.003649	-7.1e-04	-6.0e-05	5.01e-05	-0.05881	-3.0e-04
3D	0.004426	-8.0e-04	-7.6e-05	6.52e-05	-0.07327	-3.1e-04
4D	0.004541	-8.9e-04	-7.5e-05	6.23e-05	-0.07293	-3.7e-04
5D	-3.9e-04	5.95e-04	1.38e-05	8.48e-06	0.009116	4.75e-05
6D	-3.3e-04	5.52e-04	1.34e-05	8.54e-06	0.008295	6.65e-05
7D	-4.9e-04	7.43e-04	1.72e-05	1.06e-05	0.011326	5.93e-05
8D	-4.1e-04	6.89e-04	1.67e-05	1.07e-05	0.010305	8.30e-05
9D	-4.7e-05	1.62e-05	-9.0e-06	-3.8e-06	-0.00967	-6.1e-06
10D	-6.6e-05	2.27e-05	-1.3e-05	-5.3e-06	-0.01356	-8.5e-06
11D	0.003590	-6.6e-04	-6.5e-05	5.00e-05	-0.05049	-2.5e-04
12D	0.003685	-7.4e-04	-6.4e-05	4.76e-05	-0.05024	-3.0e-04
13D	0.009271	-0.00168	-1.6e-04	1.36e-04	-0.15157	-6.5e-04
14D	0.009511	-0.00186	-1.6e-04	1.30e-04	-0.15085	-7.8e-04
15D	-4.3e-04	6.96e-04	1.40e-05	8.84e-06	0.008567	5.39e-05
16D	-3.6e-04	6.46e-04	1.42e-05	9.46e-06	0.007792	7.72e-05
17D	-0.00103	0.001578	3.60e-05	2.22e-05	0.023596	1.26e-04
18D	-8.7e-04	0.001464	3.51e-05	2.25e-05	0.021469	1.76e-04
19D	-4.5e-05	1.55e-05	-8.4e-06	-3.6e-06	-0.00906	-5.8e-06
20D	-1.7e-04	5.71e-05	-3.1e-05	-1.3e-05	-0.03327	-2.1e-05

Nodo 351

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.14e-04	6.71e-05	-7.6e-04	2.69e-05	0.109048	-5.6e-05
2S	1.19e-04	1.71e-06	-9.1e-05	1.58e-05	0.050435	-2.1e-05
1D	0.003650	1.02e-04	1.34e-04	-8.3e-06	-0.05792	-1.5e-04
2D	0.003759	1.64e-04	1.37e-04	-8.5e-06	-0.05857	-1.9e-04
3D	0.004541	1.27e-04	1.67e-04	-1.0e-05	-0.07184	-1.9e-04
4D	0.004677	2.05e-04	1.70e-04	-1.1e-05	-0.07265	-2.3e-04
5D	-4.0e-04	5.59e-04	-3.1e-05	-6.4e-05	-0.00597	4.05e-05
6D	-3.4e-04	5.80e-04	-3.2e-05	-6.7e-05	-0.00664	5.33e-05
7D	-5.0e-04	6.98e-04	-3.8e-05	-8.0e-05	-0.00742	5.06e-05
8D	-4.2e-04	7.25e-04	-4.0e-05	-8.4e-05	-0.00825	6.66e-05
9D	-4.9e-05	-1.1e-05	-8.9e-06	3.80e-06	0.008316	-4.6e-06
10D	-6.8e-05	-1.5e-05	-1.2e-05	5.34e-06	0.011666	-6.4e-06
11D	0.003682	1.05e-04	1.39e-04	8.46e-06	-0.04968	-1.6e-04
12D	0.003797	1.74e-04	1.42e-04	-8.8e-06	-0.05026	-2.0e-04
13D	0.009511	2.66e-04	3.50e-04	-2.2e-05	-0.14864	-4.0e-04
14D	0.009797	4.31e-04	3.58e-04	-2.2e-05	-0.15032	-4.9e-04
15D	-4.4e-04	6.55e-04	-3.4e-05	-7.5e-05	-0.00557	4.63e-05
16D	-3.7e-04	6.79e-04	-3.5e-05	-7.8e-05	-0.00621	6.20e-05
17D	-0.00106	0.001482	-8.0e-05	-1.7e-04	-0.01544	1.07e-04
18D	-8.9e-04	0.001539	-8.4e-05	-1.8e-04	-0.01718	1.41e-04
19D	-4.7e-05	-1.0e-05	-8.4e-06	3.59e-06	0.007785	-4.4e-06
20D	-1.7e-04	-3.7e-05	-3.1e-05	1.32e-05	0.028594	-1.6e-05

Nodo 352

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.11e-04	3.85e-05	-0.10200	0.023928	0.126951	-2.7e-05
2S	1.18e-04	-7.1e-06	-0.04668	0.011019	0.058170	-7.2e-06
1D	0.003645	4.68e-05	0.026945	-0.00793	-0.00826	-1.6e-04
2D	0.003754	-2.9e-05	0.027306	-0.00711	0.009021	-1.9e-04
3D	0.004534	5.83e-05	0.033419	-0.00984	-0.01025	-2.0e-04
4D	0.004670	-3.6e-05	0.033868	-0.00883	0.011193	-2.4e-04
5D	-4.0e-04	5.86e-04	0.006513	-0.00213	-0.00931	3.99e-05
6D	-3.4e-04	5.92e-04	0.007036	-0.00241	-0.00984	4.93e-05
7D	-5.0e-04	7.32e-04	0.008092	-0.00265	-0.01156	4.99e-05
8D	-4.2e-04	7.40e-04	0.008741	-0.00300	-0.01222	6.15e-05
9D	-4.9e-05	-1.1e-05	-0.00715	0.002306	0.008784	2.61e-06
10D	-6.8e-05	-1.5e-05	-0.01003	0.003234	0.012322	3.66e-06
11D	0.003679	5.04e-05	0.023137	-0.00689	-0.00724	-1.7e-04
12D	0.003794	2.91e-05	0.023469	-0.00620	0.007916	-2.0e-04
13D	0.009497	1.23e-04	0.069152	-0.02037	-0.02124	-4.3e-04
14D	0.009783	-7.5e-05	0.070086	-0.01828	0.023195	-5.0e-04
15D	-4.4e-04	6.87e-04	0.006105	-0.00201	-0.00874	4.57e-05
16D	-3.7e-04	6.93e-04	0.006604	-0.00230	-0.00925	5.73e-05
17D	-0.00106	0.001555	0.016855	-0.00552	-0.02409	1.06e-04
18D	-8.9e-04	0.001571	0.018209	-0.00626	-0.02547	1.31e-04
19D	-4.7e-05	-1.0e-05	-0.00669	0.002172	0.008223	2.57e-06
20D	-1.7e-04	-3.8e-05	-0.02459	0.007799	0.030204	9.46e-06

Nodo 353

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.09e-04	7.47e-06	-0.18536	0.044183	0.056255	-3.6e-05
2S	1.17e-04	-1.6e-05	-0.08477	0.020369	0.025549	-1.2e-05
1D	0.003642	-1.9e-04	0.019245	-0.00772	0.027214	-1.7e-04
2D	0.003751	-1.8e-04	0.020092	-0.00691	0.027653	-2.1e-04
3D	0.004531	-2.4e-04	0.023871	-0.00957	0.033751	-2.1e-04
4D	0.004667	-2.2e-04	0.024923	-0.00857	0.034296	-2.6e-04
5D	-4.0e-04	6.07e-04	0.013175	-0.00416	-0.00544	2.95e-05
6D	-3.4e-04	5.97e-04	0.013492	-0.00432	-0.00446	-5.2e-05
7D	-5.0e-04	7.58e-04	0.016369	-0.00516	-0.00676	3.68e-05
8D	-4.2e-04	7.45e-04	0.016763	-0.00537	-0.00554	-6.5e-05
9D	-4.9e-05	-1.2e-05	-0.01290	0.004020	0.004113	3.19e-06
10D	-6.8e-05	-1.7e-05	-0.01810	0.005640	0.005770	4.48e-06
11D	0.003677	-2.0e-04	0.016609	-0.00669	0.023310	-1.8e-04
12D	0.003792	-1.9e-04	0.017369	-0.00597	0.023703	-2.2e-04
13D	0.009490	-5.0e-04	0.049412	-0.01982	0.069827	-4.5e-04
14D	0.009776	-4.7e-04	0.051595	-0.01774	0.070958	-5.4e-04
15D	-4.4e-04	7.11e-04	0.012369	-0.00388	-0.00512	3.29e-05
16D	-3.7e-04	6.99e-04	0.012675	-0.00404	-0.00419	-6.1e-05
17D	-0.00106	0.001610	0.034100	-0.01075	-0.01408	7.77e-05
18D	-8.9e-04	0.001583	0.034923	-0.01119	-0.01154	-1.4e-04
19D	-4.7e-05	-1.1e-05	-0.01208	0.003773	0.003852	3.12e-06
20D	-1.7e-04	-4.2e-05	-0.04435	0.013859	0.014147	1.14e-05

Nodo 354

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.08e-04	-2.3e-05	-0.19086	0.044325	-0.04363	-3.9e-05
2S	1.17e-04	-2.5e-05	-0.08734	0.020437	-0.01964	-1.2e-05
1D	0.003640	-3.4e-04	-0.01490	-0.00423	0.028737	-1.7e-04
2D	0.003749	-3.5e-04	-0.01645	-0.00425	0.028789	-2.1e-04
3D	0.004529	-4.2e-04	-0.01848	-0.00524	0.035641	-2.1e-04
4D	0.004665	-4.4e-04	-0.02040	-0.00528	0.035706	-2.6e-04
5D	-4.0e-04	6.16e-04	0.014414	-0.00471	0.002744	2.84e-05
6D	-3.4e-04	5.90e-04	0.013855	-0.00450	0.003639	-5.3e-05
7D	-5.0e-04	7.70e-04	0.017908	-0.00585	0.003409	3.54e-05
8D	-4.2e-04	7.36e-04	0.017214	-0.00559	0.004521	-6.6e-05
9D	-4.9e-05	-1.3e-05	-0.01334	0.004104	-0.00310	3.26e-06
10D	-6.8e-05	-1.8e-05	-0.01872	0.005757	-0.00434	4.57e-06
11D	0.003676	-3.5e-04	-0.01277	-0.00370	0.024653	-1.8e-04
12D	0.003790	-3.7e-04	-0.01411	-0.00381	0.024720	-2.2e-04
13D	0.009487	-8.8e-04	-0.03824	-0.01087	0.073744	-4.5e-04
14D	0.009772	-9.2e-04	-0.04220	-0.01096	0.073883	-5.4e-04
15D	-4.4e-04	7.21e-04	0.013549	-0.00439	0.002573	3.16e-05
16D	-3.7e-04	6.90e-04	0.013023	-0.00420	0.003414	-6.1e-05
17D	-0.00106	0.001634	0.037310	-0.01217	0.007100	7.47e-05
18D	-8.9e-04	0.001564	0.035863	-0.01164	0.009417	-1.4e-04
19D	-4.7e-05	-1.2e-05	-0.01249	0.003853	-0.00290	3.18e-06
20D	-1.7e-04	-4.6e-05	-0.04588	0.014152	-0.01065	1.17e-05

Nodo 355

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.06e-04	-5.7e-05	-0.11046	0.023944	-0.13196	0.
2S	1.16e-04	-3.5e-05	-0.05066	0.011037	-0.06051	0.
1D	0.003640	-4.9e-04	-0.02533	-0.00278	0.008762	0.
2D	0.003748	-5.3e-04	-0.02585	0.003243	0.009395	0.
3D	0.004528	-6.1e-04	-0.03141	-0.00345	0.010872	0.
4D	0.004663	-6.6e-04	-0.03206	0.004034	0.011658	0.
5D	-4.0e-04	6.12e-04	0.008520	-0.00341	0.010422	0.
6D	-3.4e-04	5.74e-04	0.007855	-0.00310	0.009647	0.
7D	-5.0e-04	7.64e-04	0.010586	-0.00424	0.012949	0.
8D	-4.2e-04	7.16e-04	0.009760	-0.00385	0.011985	0.
9D	-4.9e-05	-1.4e-05	-0.00786	0.002515	-0.00922	0.
10D	-6.8e-05	-2.0e-05	-0.01103	0.003528	-0.01293	0.
11D	0.003674	-5.1e-04	-0.02163	-0.00252	0.007713	0.
12D	0.003789	-5.5e-04	-0.02208	-0.00325	-0.00830	0.
13D	0.009485	-0.00128	-0.06496	-0.00717	0.022535	0.
14D	0.009769	-0.00139	-0.06631	0.008443	0.024171	0.
15D	-4.4e-04	7.15e-04	0.008027	-0.00321	0.009790	0.
16D	-3.7e-04	6.72e-04	0.007395	-0.00290	0.009057	0.
17D	-0.00106	0.001622	0.022059	-0.00883	0.026977	0.
18D	-8.9e-04	0.001521	0.020336	-0.00801	0.024967	0.
19D	-4.7e-05	-1.4e-05	-0.00736	0.002378	-0.00863	0.
20D	-1.7e-04	-5.1e-05	-0.02703	0.008733	-0.03170	0.

11D	0.003681	-6.5e-04	-3.6e-05	1.01e-04	-0.04965	-1.6e-04
12D	0.003795	-7.3e-04	-3.3e-05	1.13e-04	-0.04983	-1.9e-04
13D	0.009508	-0.00165	-8.7e-05	2.56e-04	-0.14901	-3.9e-04
14D	0.009793	-0.00183	-8.0e-05	2.86e-04	-0.14956	-4.7e-04
15D	-4.4e-04	6.98e-04	-2.5e-05	-8.2e-05	-0.00793	3.59e-05
16D	-3.7e-04	6.48e-04	-2.3e-05	-7.6e-05	-0.00730	-6.6e-05
17D	-0.00106	0.001583	-6.0e-05	-1.9e-04	-0.02174	8.39e-05
18D	-8.9e-04	0.001468	5.46e-05	-1.7e-04	-0.02002	-1.5e-04
19D	-4.7e-05	1.55e-05	-9.0e-06	3.77e-06	-0.00807	3.43e-06
20D	-1.7e-04	5.70e-05	-3.3e-05	1.39e-05	-0.02964	1.26e-05

Nodo 357

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.26e-04	6.07e-05	-7.3e-04	7.80e-05	0.098433	-6.0e-06
2S	1.23e-04	-3.8e-07	-7.9e-05	3.49e-05	0.046347	-5.4e-08
1D	0.003711	8.19e-05	1.55e-04	9.31e-05	-0.05061	-1.5e-04
2D	0.003836	1.45e-04	1.57e-04	9.84e-05	-0.05178	-2.0e-04
3D	0.004617	1.02e-04	1.93e-04	1.16e-04	-0.06277	-1.9e-04
4D	0.004773	1.81e-04	1.96e-04	1.22e-04	-0.06422	-2.5e-04
5D	-4.1e-04	5.59e-04	-4.4e-05	-1.4e-05	-0.00551	3.28e-05
6D	-3.5e-04	5.81e-04	-4.5e-05	-1.3e-05	0.006241	-6.6e-05
7D	-5.1e-04	6.98e-04	-5.5e-05	-1.8e-05	-0.00685	4.10e-05
8D	-4.3e-04	7.25e-04	-5.6e-05	-1.7e-05	0.007754	-8.2e-05
9D	-5.0e-05	-1.1e-05	-6.8e-06	7.19e-06	0.007177	-5.4e-06
10D	-7.0e-05	-1.5e-05	-9.5e-06	1.01e-05	0.010068	-7.6e-06
11D	0.003748	8.54e-05	1.59e-04	8.86e-05	-0.04343	-1.6e-04
12D	0.003881	1.55e-04	1.62e-04	9.44e-05	-0.04448	-2.2e-04
13D	0.009670	2.14e-04	4.05e-04	2.41e-04	-0.12989	-3.9e-04
14D	0.010000	3.81e-04	4.11e-04	2.55e-04	-0.13289	-5.2e-04
15D	-4.5e-04	6.55e-04	-5.0e-05	-1.6e-05	0.005162	3.68e-05
16D	-3.7e-04	6.79e-04	-5.2e-05	-1.4e-05	0.005868	-7.6e-05
17D	-0.00108	0.001482	-1.2e-04	-3.7e-05	-0.01426	8.66e-05
18D	-9.1e-04	0.001539	-1.2e-04	-3.5e-05	0.016154	-1.7e-04
19D	-4.8e-05	-1.0e-05	-6.4e-06	6.74e-06	0.006721	-5.2e-06
20D	-1.8e-04	-3.7e-05	-2.4e-05	2.48e-05	0.024685	-1.9e-05

Nodo 358

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.26e-04	3.56e-05	-0.09062	0.027244	0.111926	0.
2S	1.23e-04	-8.1e-06	-0.04186	0.010696	0.051424	0.
1D	0.003715	5.37e-05	0.023059	-0.01014	0.006527	0.
2D	0.003841	-3.1e-05	0.023734	-0.00971	0.007537	0.
3D	0.004622	6.69e-05	0.028600	-0.01258	0.008099	0.
4D	0.004779	-3.8e-05	0.029438	-0.01204	0.009353	0.
5D	-4.1e-04	5.87e-04	0.005771	-0.00225	-0.00809	0.
6D	-3.5e-04	5.93e-04	0.006286	-0.00232	-0.00858	0.
7D	-5.1e-04	7.33e-04	0.007171	-0.00280	-0.01005	0.
8D	-4.3e-04	7.41e-04	0.007811	-0.00289	-0.01066	0.
9D	-5.0e-05	-1.1e-05	-0.00609	0.002660	0.007413	0.
10D	-7.0e-05	-1.5e-05	-0.00855	0.003731	0.010399	0.
11D	0.003752	5.72e-05	0.019814	-0.00879	0.005754	0.
12D	0.003886	-3.0e-05	0.020422	-0.00840	0.006648	0.
13D	0.009682	1.41e-04	0.059184	-0.02604	0.016789	0.
14D	0.010011	-8.0e-05	0.060923	-0.02493	0.019388	0.
15D	-4.5e-04	6.87e-04	0.005429	-0.00212	-0.00763	0.
16D	-3.7e-04	6.94e-04	0.005925	-0.00220	-0.00810	0.
17D	-0.00108	0.001556	0.014940	-0.00583	-0.02095	0.
18D	-9.1e-04	0.001572	0.016276	-0.00602	-0.02221	0.
19D	-4.8e-05	-1.0e-05	-0.00571	0.002503	0.006941	0.
20D	-1.8e-04	-3.8e-05	-0.02096	0.009195	0.025494	0.

Nodo 359

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.25e-04	4.78e-06	-0.16187	0.061402	0.045205	-3.5e-05
2S	1.23e-04	-1.7e-05	-0.07397	0.028185	0.019400	-1.2e-05
1D	0.003713	-1.9e-04	0.015633	-0.00906	0.024370	-1.6e-04
2D	0.003838	-1.8e-04	0.016780	-0.00875	0.025085	-2.0e-04
3D	0.004620	-2.4e-04	0.019392	-0.01124	0.030224	-2.0e-04
4D	0.004776	-2.3e-04	0.020815	-0.01086	0.031112	-2.5e-04
5D	-4.1e-04	6.08e-04	0.011495	-0.00499	-0.00467	2.92e-05
6D	-3.5e-04	5.98e-04	0.011780	-0.00506	-0.00370	-5.6e-05
7D	-5.1e-04	7.60e-04	0.014283	-0.00620	-0.00581	3.64e-05
8D	-4.3e-04	7.47e-04	0.014637	-0.00628	-0.00460	-7.0e-05
9D	-5.0e-05	-1.2e-05	-0.01091	0.005144	0.003445	3.31e-06
10D	-7.0e-05	-1.7e-05	-0.01530	0.007216	0.004833	4.64e-06
11D	0.003751	-2.0e-04	0.013514	-0.00782	0.020891	-1.6e-04
12D	0.003884	-1.9e-04	0.014538	-0.00754	0.021525	-2.1e-04
13D	0.009676	-5.1e-04	0.040145	-0.02327	0.062533	-4.1e-04
14D	0.010005	-4.8e-04	0.040397	-0.02247	0.064374	-5.2e-04
15D	-4.5e-04	7.12e-04	0.010826	-0.00465	-0.00443	3.27e-05
16D	-3.7e-04	7.00e-04	0.011104	-0.00472	-0.00349	-6.5e-05
17D	-0.00108	0.001613	0.029761	-0.01291	-0.01211	7.70e-05
18D	-9.1e-04	0.001586	0.030502	-0.01308	-0.00958	-1.5e-04
19D	-4.8e-05	-1.1e-05	-0.01021	0.004824	0.003229	3.23e-06
20D	-1.8e-04	-4.2e-05	-0.03751	0.017719	0.011861	1.19e-05

Nodo 360

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.25e-04	-2.5e-05	-0.16737	0.061208	-0.03260	-3.7e-05
2S	1.22e-04	-2.6e-05	-0.07654	0.028109	-0.01351	-1.3e-05

1D	0.003712	-3.4e-04	-0.01418	0.004812	0.026255	-1.6e-04
2D	0.003837	-3.5e-04	-0.01573	0.005056	0.026733	-2.0e-04
3D	0.004618	-4.2e-04	-0.01759	0.005971	0.032563	-2.0e-04
4D	0.004774	-4.4e-04	-0.01951	0.006275	0.033157	-2.5e-04
5D	-4.1e-04	6.17e-04	0.012625	-0.00553	0.002420	2.96e-05
6D	-3.5e-04	5.91e-04	0.012057	-0.00546	0.003136	-5.6e-05
7D	-5.1e-04	7.71e-04	0.015687	-0.00687	0.003007	3.69e-05
8D	-4.3e-04	7.38e-04	0.014981	-0.00678	0.003897	-6.9e-05
9D	-5.0e-05	-1.3e-05	-0.01134	0.005199	-0.00250	3.35e-06
10D	-7.0e-05	-1.8e-05	-0.01591	0.007294	-0.00351	4.70e-06
11D	0.003750	-3.5e-04	-0.01216	0.004258	0.022534	-1.7e-04
12D	0.003883	-3.6e-04	-0.01352	0.004525	0.022994	-2.1e-04
13D	0.009673	-8.8e-04	-0.03638	0.012381	0.067378	-4.1e-04
14D	0.010001	-9.2e-04	-0.04037	0.013020	0.068617	-5.2e-04
15D	-4.5e-04	7.23e-04	0.011908	-0.00516	0.002304	3.31e-05
16D	-3.7e-04	6.92e-04	0.011369	-0.00509	0.002954	6.46e-05
17D	-0.00108	0.001637	0.032691	-0.01430	0.006271	7.80e-05
18D	-9.1e-04	0.001566	0.031219	-0.01412	0.008119	-1.5e-04
19D	-4.8e-05	-1.2e-05	-0.01061	0.004878	-0.00235	3.27e-06
20D	-1.8e-04	-4.6e-05	-0.03899	0.017916	-0.00863	1.20e-05

Nodo 361

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.24e-04	-5.8e-05	-0.09978	0.024115	-0.11487	0.
2S	1.22e-04	-3.6e-05	-0.04616	0.009214	-0.05277	0.
1D	0.003713	-4.8e-04	-0.02414	0.004542	-0.00705	0.
2D	0.003838	-5.3e-04	-0.02491	0.004638	-0.00787	0.
3D	0.004619	-6.0e-04	-0.02994	0.005637	-0.00875	0.
4D	0.004775	-6.5e-04	-0.03089	0.005760	-0.00977	0.
5D	-4.1e-04	6.13e-04	-0.00769	-0.00318	0.008950	0.
6D	-3.5e-04	5.75e-04	-0.00698	-0.00315	0.008262	0.
7D	-5.1e-04	7.66e-04	-0.00956	-0.00396	0.011121	0.
8D	-4.3e-04	7.18e-04	-0.00868	-0.00391	0.010266	0.
9D	-5.0e-05	-1.4e-05	-0.00683	0.002603	-0.00769	0.
10D	-7.0e-05	-2.0e-05	-0.00958	0.003651	-0.01079	0.
11D	0.003750	-5.0e-04	-0.02063	0.004053	0.006264	0.
12D	0.003883	-5.5e-04	-0.02132	0.004280	-0.00701	0.
13D	0.009675	-0.00126	-0.06193	0.011695	0.018156	0.
14D	0.010004	-0.00137	-0.06391	0.011978	-0.02027	0.
15D	-4.5e-04	7.17e-04	-0.00728	-0.00299	0.008432	0.
16D	-3.7e-04	6.73e-04	-0.00660	-0.00294	0.007779	0.
17D	-0.00108	0.001626	-0.01993	-0.00824	0.023172	0.
18D	-9.1e-04	0.001525	-0.01808	-0.00814	0.021390	0.
19D	-4.8e-05	-1.4e-05	-0.00639	0.002452	-0.00720	0.
20D	-1.8e-04	-5.1e-05	-0.02349	0.009006	-0.02646	0.

Nodo 362

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.22e-04	-9.5e-05	-7.4e-04	7.72e-05	-0.10131	-6.5e-05
2S	1.21e-04	-4.7e-05	-8.3e-05	2.79e-05	-0.04780	-2.5e-05
1D	0.003711	-6.2e-04	1.82e-05	1.98e-05	-0.05434	-1.6e-04
2D	0.003837	-6.9e-04	1.59e-05	1.90e-05	-0.05513	-2.1e-04
3D	0.004617	-7.7e-04	2.26e-05	2.47e-05	-0.06739	-2.0e-04
4D	0.004774	-8.6e-04	1.98e-05	2.36e-05	-0.06837	-2.6e-04
5D	-4.1e-04	5.99e-04	-3.6e-05	-8.5e-06	-0.00823	4.69e-05
6D	-3.4e-04	5.55e-04	-3.3e-05	-8.3e-06	-0.00737	6.74e-05
7D	-5.1e-04	7.48e-04	-4.5e-05	-1.1e-05	-0.01023	5.85e-05
8D	-4.3e-04	6.93e-04	-4.2e-05	-1.0e-05	-0.00916	8.41e-05
9D	-5.0e-05	1.62e-05	-7.3e-06	6.69e-06	-0.00776	-6.2e-06
10D	-7.0e-05	2.27e-05	-1.0e-05	9.38e-06	-0.01088	-8.7e-06
11D	0.003748	-6.4e-04	1.85e-05	2.09e-05	-0.04646	-1.7e-04
12D	0.003882	-7.2e-04	1.61e-05	2.00e-05	-0.04717	-2.3e-04
13D	0.009671	-0.00161	4.74e-05	5.18e-05	-0.13941	-4.2e-04
14D	0.010001	-0.00180	4.15e-05	4.97e-05	-0.14143	-5.6e-04
15D	-4.5e-04	7.00e-04	-4.2e-05	-8.5e-06	-0.00783	5.33e-05
16D	-3.7e-04	6.50e-04	-3.9e-05	-8.9e-06	-0.00699	7.83e-05
17D	-0.00108	0.001588	-9.6e-05	-2.2e-05	-0.02133	1.24e-04
18D	-9.1e-04	0.001472	-8.8e-05	-2.2e-05	-0.01909	1.79e-04
19D	-4.8e-05	1.55e-05	-6.9e-06	6.29e-06	-0.00726	-6.0e-06
20D	-1.8e-04	5.69e-05	-2.5e-05	2.31e-05	-0.02668	-2.2e-05

16D	-3.8e-04	6.80e-04	-7.0e-05	-7.8e-05	0.005099	6.18e-05
17D	-0.00110	0.001482	-1.6e-04	-1.7e-04	0.011956	1.01e-04
18D	-9.3e-04	0.001540	-1.6e-04	-1.8e-04	0.013945	1.41e-04
19D	-4.9e-05	-1.0e-05	-5.2e-06	3.49e-06	0.005392	-4.6e-06
20D	-1.8e-04	-3.7e-05	-1.9e-05	1.28e-05	0.019806	-1.7e-05

Nodo 364

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.40e-04	3.23e-05	-0.07466	0.044483	0.090349	0.
2S	1.28e-04	-9.3e-06	-0.03494	0.020384	0.041577	0.
1D	0.003778	-6.1e-05	0.018373	-0.01158	0.004816	0.
2D	0.003919	-3.6e-05	0.019106	-0.01175	0.005802	0.
3D	0.004700	-7.6e-05	0.022788	-0.01436	0.005978	0.
4D	0.004876	-4.5e-05	0.023698	-0.01458	0.007201	0.
5D	-4.2e-04	5.88e-04	0.004695	-0.00311	-0.00648	0.
6D	-3.5e-04	5.94e-04	-0.00519	-0.00335	-0.00688	0.
7D	-5.2e-04	7.34e-04	0.005834	-0.00387	-0.00806	0.
8D	-4.4e-04	7.42e-04	-0.00645	-0.00416	-0.00855	0.
9D	-5.1e-05	-1.1e-05	-0.00477	0.003425	0.005699	0.
10D	-7.2e-05	-1.5e-05	-0.00669	0.004805	0.007995	0.
11D	0.003818	6.45e-05	0.015816	-0.00996	0.004303	0.
12D	0.003970	-3.4e-05	0.016468	-0.01013	0.005191	0.
13D	0.009846	-1.6e-04	0.047162	-0.02972	0.012403	0.
14D	0.010217	-9.3e-05	0.049049	-0.03017	0.014943	0.
15D	-4.6e-04	6.88e-04	-0.00443	-0.00292	-0.00614	0.
16D	-3.8e-04	6.95e-04	-0.00491	-0.00315	-0.00652	0.
17D	-0.00110	0.001558	0.012158	-0.00806	-0.01679	0.
18D	-9.3e-04	0.001575	-0.01345	-0.00867	-0.01782	0.
19D	-4.9e-05	-1.0e-05	-0.00447	0.003209	0.005339	0.
20D	-1.8e-04	-3.8e-05	-0.01641	0.011787	0.019610	0.

Nodo 365

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.41e-04	1.90e-06	-0.13078	0.078251	0.033313	-3.4e-05
2S	1.28e-04	-1.9e-05	-0.05968	0.036027	0.012935	-1.1e-05
1D	0.003778	-1.9e-04	0.011554	-0.00969	0.020496	-1.4e-04
2D	0.003919	-1.8e-04	0.012736	-0.00997	0.021267	-1.8e-04
3D	0.004700	-2.4e-04	0.014332	-0.01202	0.025420	-1.8e-04
4D	0.004876	-2.3e-04	0.015799	-0.01237	0.026378	-2.3e-04
5D	-4.2e-04	6.10e-04	0.009159	-0.00609	-0.00354	2.87e-05
6D	-3.5e-04	6.00e-04	0.009416	-0.00622	-0.00266	5.50e-05
7D	-5.2e-04	7.62e-04	0.011381	-0.00756	-0.00440	3.58e-05
8D	-4.4e-04	7.49e-04	0.011700	-0.00772	-0.00331	6.87e-05
9D	-5.1e-05	-1.2e-05	-0.00846	0.005984	0.002628	3.13e-06
10D	-7.2e-05	-1.7e-05	-0.01187	0.008394	0.003686	4.40e-06
11D	0.003819	-2.0e-04	0.010017	-0.00836	0.017607	-1.5e-04
12D	0.003970	-1.9e-04	0.011070	-0.00861	0.018285	-1.9e-04
13D	0.009846	-5.1e-04	0.029676	-0.02489	0.052601	-3.8e-04
14D	0.010217	-4.8e-04	0.032719	-0.02560	0.054586	-4.8e-04
15D	-4.6e-04	7.14e-04	0.008649	-0.00571	-0.00338	3.22e-05
16D	-3.8e-04	7.02e-04	0.008900	-0.00583	-0.00253	6.40e-05
17D	-0.00110	0.001617	0.023719	-0.01575	-0.00918	7.57e-05
18D	-9.3e-04	0.001590	0.024386	-0.01609	-0.00689	1.46e-04
19D	-4.9e-05	-1.1e-05	-0.00792	0.005604	0.002473	3.06e-06
20D	-1.8e-04	-4.2e-05	-0.02910	0.020584	0.009082	1.12e-05

Nodo 366

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.41e-04	-2.7e-05	-0.13693	0.075506	-0.01923	-3.7e-05
2S	1.28e-04	-2.7e-05	-0.06253	0.034838	-0.00641	-1.2e-05
1D	0.003778	-3.3e-04	-0.01290	0.005399	0.022256	-1.5e-04
2D	0.003919	-3.5e-04	-0.01426	0.006021	0.022952	-1.9e-04
3D	0.004700	-4.2e-04	-0.01600	0.006699	0.027604	-1.8e-04
4D	0.004876	-4.3e-04	-0.01768	0.007471	0.028469	-2.3e-04
5D	-4.2e-04	6.19e-04	0.010103	-0.00671	0.001936	2.87e-05
6D	-3.5e-04	5.92e-04	0.009558	-0.00653	0.002456	-5.5e-05
7D	-5.2e-04	7.73e-04	0.012554	-0.00834	0.002407	3.58e-05
8D	-4.4e-04	7.39e-04	0.011876	-0.00811	0.003052	-6.9e-05
9D	-5.1e-05	-1.3e-05	-0.00891	0.005930	-0.00170	3.23e-06
10D	-7.2e-05	-1.8e-05	-0.01250	0.008319	-0.00239	4.52e-06
11D	0.003819	-3.5e-04	-0.01108	0.004747	0.019129	-1.6e-04
12D	0.003970	-3.6e-04	-0.01228	0.005321	0.019793	-2.0e-04
13D	0.009846	-8.7e-04	-0.03311	0.013883	0.057122	-3.9e-04
14D	0.010217	-9.1e-04	-0.03660	0.015488	0.058926	-4.9e-04
15D	-4.6e-04	7.24e-04	0.009554	-0.00631	0.001876	3.21e-05
16D	-3.8e-04	6.93e-04	0.009033	-0.00614	0.002329	6.41e-05
17D	-0.00110	0.001641	0.026167	-0.01737	0.005026	7.56e-05
18D	-9.3e-04	0.001570	0.024753	-0.01690	0.006362	-1.5e-04
19D	-5.0e-05	-1.2e-05	-0.00834	0.005557	-0.00161	3.15e-06
20D	-1.8e-04	-4.6e-05	-0.03064	0.020409	-0.00593	1.16e-05

Nodo 367

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.41e-04	-5.9e-05	-0.08560	0.039610	-0.09286	0.
2S	1.28e-04	-3.6e-05	-0.04005	0.018247	-0.04269	0.
1D	0.003778	-4.8e-04	-0.02195	0.007194	0.005524	0.
2D	0.003920	-5.2e-04	-0.02277	0.007496	-0.00632	0.
3D	0.004701	-5.9e-04	-0.02723	0.008926	0.006857	0.
4D	0.004877	-6.5e-04	-0.02824	0.009302	-0.00785	0.
5D	-4.2e-04	6.15e-04	-0.00636	0.004436	0.007194	0.

6D	-3.5e-04	5.76e-04	-0.00565	0.004190	0.006618	0.
7D	-5.2e-04	7.68e-04	-0.00791	0.005512	0.008939	0.
8D	-4.4e-04	7.20e-04	-0.00702	0.005207	0.008224	0.
9D	-5.2e-05	-1.4e-05	-0.00560	0.003325	-0.00591	0.
10D	-7.2e-05	-2.0e-05	-0.00785	0.004664	-0.00829	0.
11D	0.003819	-4.9e-04	-0.01879	0.006314	0.004999	0.
12D	0.003971	-5.4e-04	-0.01953	0.006629	-0.00574	0.
13D	0.009848	-0.00125	-0.05632	0.018496	0.014240	0.
14D	0.010219	-0.00136	-0.05844	0.019285	-0.01630	0.
15D	-4.6e-04	7.19e-04	-0.00604	0.004204	0.006797	0.
16D	-3.8e-04	6.75e-04	-0.00534	0.003965	0.006249	0.
17D	-0.00110	0.001630	-0.01648	0.011491	0.018631	0.
18D	-9.3e-04	0.001528	-0.01462	0.010854	0.017139	0.
19D	-5.0e-05	-1.4e-05	-0.00524	0.003120	-0.00554	0.
20D	-1.8e-04	-5.1e-05	-0.01925	0.011459	-0.02034	0.

Nodo 368

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.40e-04	-9.4e-05	-7.2e-04	4.97e-05	-0.09233	-2.1e-06
2S	1.27e-04	-4.7e-05	-7.5e-05	2.12e-05	-0.04451	5.95e-06
1D	0.003777	-6.1e-04	2.83e-05	9.05e-05	-0.04935	-1.4e-04
2D	0.003919	-6.8e-04	3.24e-05	1.01e-04	-0.05033	-1.7e-04
3D	0.004699	-7.6e-04	3.52e-05	1.13e-04	-0.06120	-1.8e-04
4D	0.004876	-8.4e-04	4.03e-05	1.26e-04	-0.06242	-2.2e-04
5D	-4.2e-04	6.02e-04	-5.3e-05	-7.2e-05	-0.00726	2.96e-05
6D	-3.5e-04	5.57e-04	-4.8e-05	-6.6e-05	-0.00631	-5.7e-05
7D	-5.2e-04	7.51e-04	-6.6e-05	-9.0e-05	-0.00902	3.69e-05
8D	-4.4e-04	6.96e-04	-6.0e-05	-8.2e-05	-0.00784	-7.1e-05
9D	-5.2e-05	1.61e-05	-5.9e-06	3.55e-06	-0.00678	2.70e-06
10D	-7.2e-05	2.26e-05	-8.3e-06	4.98e-06	-0.00951	3.79e-06
11D	0.003817	-6.3e-04	2.72e-05	9.30e-05	-0.04221	-1.5e-04
12D	0.003970	-7.1e-04	3.23e-05	1.05e-04	-0.04311	-1.8e-04
13D	0.009844	-0.00159	7.33e-05	2.36e-04	-0.12661	-3.7e-04
14D	0.010216	-0.00177	8.42e-05	2.64e-04	-0.12914	-4.5e-04
15D	-4.6e-04	7.03e-04	-6.1e-05	-8.4e-05	-0.00690	3.35e-05
16D	-3.8e-04	6.52e-04	-5.7e-05	-7.7e-05	-0.00597	-6.6e-05
17D	-0.00110	0.001595	-1.4e-04	-1.9e-04	-0.01881	7.81e-05
18D	-9.3e-04	0.001478	-1.3e-04	-1.7e-04	-0.01635	-1.5e-04
19D	-5.0e-05	1.55e-05	-5.6e-06	3.36e-06	-0.00636	2.64e-06
20D	-1.8e-04	5.68e-05	-2.1e-05	1.23e-05	-0.02334	9.70e-06

Nodo 369

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.53e-04	5.15e-05	-7.0e-04	1.24e-05	0.055729	-4.1e-06
2S	1.32e-04	-3.4e-06	-6.5e-05	4.51e-06	0.026821	2.87e-06
1D	0.003831	5.07e-05	2.07e-04	1.06e-04	-0.03007	-1.4e-04
2D	0.003988	1.13e-04	2.09e-04	1.11e-04	-0.03093	-1.9e-04
3D	0.004767	6.31e-05	2.57e-04	1.32e-04	-0.03729	-1.8e-04
4D	0.004962	1.41e-04	2.60e-04	1.38e-04	-0.03837	-2.3e-04
5D	-4.3e-04	5.59e-04	-7.7e-05	-2.0e-05	0.003172	2.84e-05
6D	-3.6e-04	5.81e-04	-7.8e-05	-1.7e-05	0.003697	-6.1e-05
7D	-5.3e-04	6.98e-04	-9.6e-05	-2.5e-05	0.003941	3.54e-05
8D	-4.5e-04	7.26e-04	-9.8e-05	-2.2e-05	0.004595	-7.6e-05
9D	-5.2e-05	-1.1e-05	-4.9e-06	2.35e-06	0.003791	2.81e-06
10D	-7.3e-05	-1.5e-05	-6.8e-06	3.29e-06	0.005318	3.93e-06
11D	0.003875	5.44e-05	2.10e-04	1.03e-04	-0.02592	-1.5e-04
12D	0.004044	1.22e-04	2.12e-04	1.09e-04	-0.02666	-2.0e-04
13D	0.009986	1.33e-04	5.39e-04	2.76e-04	-0.07719	-3.7e-04
14D	0.010398	2.96e-04	5.44e-04	2.89e-04	-0.07941	-4.9e-04
15D	-4.6e-04	6.55e-04	-8.9e-05	-2.3e-05	0.003003	3.18e-05
16D	-3.9e-04	6.80e-04	-9.1e-05	-2.0e-05	0.003522	-7.1e-05
17D	-0.00112	0.001482	-2.0e-04	-5.3e-05	0.008216	7.49e-05
18D	-9.5e-04	0.001541	-2.1e-04	-4.6e-05	0.009581	-1.6e-04
19D	-5.0e-05	-1.0e-05	-4.7e-06	-2.3e-06	0.003555	2.82e-06
20D	-1.9e-04	-3.7e-05	-1.7e-05	-8.3e-06	0.013059	1.04e-05

Nodo 371						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.55e-04	-1.5e-06	-0.09335	0.089871	0.028163	-3.2e-05
2S	1.33e-04	-2.0e-05	-0.04243	0.041419	0.011358	-1.1e-05
1D	0.003836	-2.0e-04	0.007408	-0.00928	0.015950	-1.3e-04
2D	0.003993	-1.9e-04	0.008381	-0.01002	0.016592	-1.7e-04
3D	0.004773	-2.4e-04	0.009190	-0.01151	0.019783	-1.6e-04
4D	0.004968	-2.3e-04	0.010398	-0.01243	0.020580	-2.1e-04
5D	-4.3e-04	6.12e-04	0.006358	-0.00670	-0.00269	2.84e-05
6D	-3.6e-04	6.02e-04	-0.00653	-0.00694	-0.00203	5.58e-05
7D	-5.3e-04	7.64e-04	0.007900	-0.00832	-0.00335	3.54e-05
8D	-4.5e-04	7.52e-04	-0.00812	-0.00862	-0.00252	6.96e-05
9D	-5.3e-05	-1.2e-05	-0.00575	0.006250	0.002014	3.02e-06
10D	-7.4e-05	-1.7e-05	-0.00807	0.008768	0.002825	4.24e-06
11D	0.003880	-2.0e-04	0.006450	-0.00803	0.013747	-1.4e-04
12D	0.004049	-1.9e-04	0.007315	-0.00869	0.014304	-1.8e-04
13D	0.009998	-5.1e-04	0.019034	-0.02383	0.040945	-3.4e-04
14D	0.010410	-4.8e-04	0.021539	-0.02574	0.042595	-4.4e-04
15D	-4.6e-04	7.17e-04	-0.00632	-0.00632	-0.00257	3.20e-05
16D	-3.9e-04	7.05e-04	-0.00619	-0.00655	-0.00193	6.49e-05
17D	-0.00113	0.001623	-0.01647	-0.01735	-0.00698	7.48e-05
18D	-9.5e-04	0.001596	-0.01693	-0.01797	-0.00525	1.48e-04
19D	-5.1e-05	-1.1e-05	-0.00539	0.005851	0.001894	2.95e-06
20D	-1.9e-04	-4.2e-05	-0.01980	0.021492	0.006956	1.08e-05

Nodo 372						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.57e-04	-3.0e-05	-0.10175	0.082458	-0.00882	-3.5e-05
2S	1.33e-04	-2.8e-05	-0.04626	0.038188	-0.00255	-1.2e-05
1D	0.003838	-3.3e-04	-0.01110	0.005947	0.017565	-1.4e-04
2D	0.003995	-3.5e-04	-0.01208	0.006958	0.018160	-1.8e-04
3D	0.004776	-4.2e-04	-0.01376	0.007377	0.021786	-1.7e-04
4D	0.004971	-4.3e-04	-0.01498	0.008633	0.022525	-2.2e-04
5D	-4.3e-04	6.20e-04	-0.00709	-0.00723	0.001617	2.87e-05
6D	-3.6e-04	5.93e-04	0.006660	-0.00688	0.002007	5.59e-05
7D	-5.3e-04	7.75e-04	-0.00882	-0.00899	0.002010	3.58e-05
8D	-4.5e-04	7.41e-04	-0.008275	-0.00854	0.002494	6.98e-05
9D	-5.3e-05	-1.3e-05	-0.00629	0.006018	-0.00103	3.16e-06
10D	-7.4e-05	-1.8e-05	-0.00882	0.008442	-0.00144	4.44e-06
11D	0.003883	-3.5e-04	-0.00956	0.005179	0.015129	-1.4e-04
12D	0.004052	-3.6e-04	-0.01043	0.006122	0.015688	-1.9e-04
13D	0.010005	-8.7e-04	-0.02848	0.015278	0.045090	-3.6e-04
14D	0.010417	-9.1e-04	-0.03102	0.017893	0.046629	-4.6e-04
15D	-4.7e-04	7.26e-04	-0.00672	-0.00684	0.001554	3.23e-05
16D	-3.9e-04	6.95e-04	-0.00630	-0.00650	0.001906	6.51e-05
17D	-0.00113	0.001645	-0.01838	-0.01874	0.004194	7.58e-05
18D	-9.5e-04	0.001573	0.017250	-0.01781	0.005199	1.48e-04
19D	-5.1e-05	-1.2e-05	-0.00589	0.005635	-9.8e-04	3.09e-06
20D	-1.9e-04	-4.6e-05	-0.02164	0.020697	-0.00359	1.13e-05

Nodo 373						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.58e-04	-6.0e-05	-0.06545	0.050966	-0.07037	0.
2S	1.33e-04	-3.7e-05	-0.03033	0.025435	-0.03221	0.
1D	0.003842	-4.7e-04	-0.01851	0.009867	-0.00384	0.
2D	0.003999	-5.2e-04	-0.01913	0.010750	-0.00460	0.
3D	0.004780	-5.9e-04	-0.02296	0.012239	-0.00476	0.
4D	0.004976	-6.4e-04	-0.02372	0.013337	-0.00572	0.
5D	-4.3e-04	6.16e-04	-0.00439	0.005389	0.005380	0.
6D	-3.6e-04	5.78e-04	-0.00386	0.004815	0.004904	0.
7D	-5.4e-04	7.70e-04	-0.00545	0.006697	0.006685	0.
8D	-4.5e-04	7.21e-04	-0.00479	0.005984	0.006094	0.
9D	-5.3e-05	-1.4e-05	-0.00411	0.003646	-0.00420	0.
10D	-7.4e-05	-2.0e-05	-0.00577	0.005114	-0.00589	0.
11D	0.003885	-4.9e-04	-0.01588	0.008523	-0.00353	0.
12D	0.004055	-5.4e-04	-0.01643	0.009444	-0.00425	0.
13D	0.010013	-0.00124	-0.04750	0.025334	-0.00991	0.
14D	0.010427	-0.00135	-0.04909	0.027639	-0.01189	0.
15D	-4.7e-04	7.21e-04	-0.00415	0.005141	-0.00510	0.
16D	-3.9e-04	6.76e-04	-0.00364	0.004587	0.004645	0.
17D	-0.00113	0.001634	-0.01136	0.013969	0.013937	0.
18D	-9.5e-04	0.001531	-0.00998	0.012480	0.012704	0.
19D	-5.1e-05	-1.4e-05	-0.00385	0.003419	-0.00394	0.
20D	-1.9e-04	-5.1e-05	-0.01416	0.012557	-0.01446	0.

Nodo 374						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.58e-04	-9.3e-05	-7.1e-04	-1.2e-05	-0.07097	-6.8e-05
2S	1.33e-04	-4.7e-05	-7.1e-05	-1.1e-05	-0.03385	-3.0e-05
1D	0.003842	-6.0e-04	5.07e-05	3.28e-05	-0.04107	-1.7e-04
2D	0.004000	-6.7e-04	5.83e-05	3.32e-05	-0.04174	-2.1e-04
3D	0.004781	-7.5e-04	6.31e-05	4.08e-05	-0.05094	-2.1e-04
4D	0.004978	-8.4e-04	7.26e-05	4.13e-05	-0.05177	-2.6e-04
5D	-4.3e-04	6.04e-04	-7.1e-05	-1.5e-05	0.005025	4.38e-05
6D	-3.6e-04	5.60e-04	-6.6e-05	-1.6e-05	0.004473	6.57e-05
7D	-5.4e-04	7.55e-04	-8.9e-05	-1.9e-05	0.006243	5.46e-05
8D	-4.5e-04	6.99e-04	-8.2e-05	-1.9e-05	0.005556	8.21e-05
9D	-5.3e-05	1.61e-05	-5.2e-06	2.19e-06	-0.00519	-7.3e-06
10D	-7.5e-05	2.26e-05	-7.4e-06	3.07e-06	-0.00729	-1.0e-05

11D	0.003886	-6.2e-04	5.02e-05	3.28e-05	-0.03520	-1.7e-04
12D	0.004056	-7.0e-04	5.93e-05	3.34e-05	-0.03578	-2.2e-04
13D	0.010015	-0.00157	1.32e-04	8.53e-05	-0.10539	-4.3e-04
14D	0.010430	-0.00176	1.52e-04	8.64e-05	-0.10710	-5.5e-04
15D	-4.7e-04	7.07e-04	-8.3e-05	-0.004721	4.95e-05	
16D	-3.9e-04	6.55e-04	-7.7e-05	-1.8e-05	0.004167	7.62e-05
17D	-0.00113	0.001602	-1.9e-04	-4.0e-05	0.013004	1.16e-04
18D	-9.5e-04	0.001483	-1.7e-04	-4.1e-05	0.011567	1.74e-04
19D	-5.1e-05	1.54e-05	-5.0e-06	2.20e-06	-0.00487	-6.9e-06
20D	-1.9e-04	5.67e-05	-1.8e-05	8.06e-06	-0.01788	-2.5e-05

Nodo 375						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.64e-04	4.71e-05	-6.8e-04	1.16e-04	0.029369	-6.2e-05
2S	1.35e-04	-5.0e-06	-5.7e-05	5.26e-05	0.013654	-2.5e-05
1D	0.003885	4.07e-05	2.40e-04	4.65e-05	-0.01756	-1.0e-04
2D	0.004056	1.00e-04	2.42e-04	4.17e-05	-0.01799	-1.3e-04
3D	0.004834	5.08e-05	2.98e-04	5.79e-05	-0.02178	-1.3e-04
4D	0.005047	1.25e-04	3.01e-04	5.19e-05	-0.02232	-1.7e-04
5D	-4.3e-04	5.59e-04	-9.5e-05	-6.4e-05	0.001640	3.93e-05
6D	-3.7e-04	5.82e-04	-9.7e-05	-6.8e-05	0.001842	5.40e-05
7D	-5.4e-04	6.98e-04	-1.2e-04	-8.0e-05	0.002039	4.91e-05
8D	-4.6e-04	7.26e-04	-1.2e-04	-8.5e-05	0.002289	6.74e-05
9D	-5.3e-05	-1.1e-05	-4.5e-06	6.96e-06	0.001977	-5.0e-06
10D	-7.5e-05	-1.5e-05	-6.2e-06	9.76e-06	0.002773	-7.0e-06
11D	0.003932	4.39e-05	2.43e-04	4.79e-05	-0.01519	-1.1e-04
12D	0.004118	1.09e-04	2.45e-04	4.23e-05	-0.01555	-1.5e-04
13D	0.010127	1.07e-04	6.25e-04	1.21e-04	-0.04509	-2.7e-04
14D	0.010577	2.63e-04	6.31e-04	1.09e-04	-0.04621	-3.5e-04
15D	-4.7e-04	6.55e-04	-1.1e-04	-7.5e-05	0.001565	4.54e-05
16D	-4.0e-04	6.80e-04	-1.1e-04	-7.9e-05	0.001757	6.31e-05
17D	-0.00114	0.001482	-2.5e-04	-1.7e-04	0.004252	1.04e-04
18D	-9.8e-04	0.001542	-2.6e-04	-1.8e-04	0.004774	1.43e-04
19D	-5.1e-05	-1.0e-05	-4.3e-06	6.53e-06	0.001853	-4.8e-06
20D	-1.9e-04	-3.7e-05	-1.6e-05	2.40e-05	0.006807	-1.7e-05

Nodo 376						
CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.66e-04	2.69e-05	-0.02677	0.053443	0.031465	-2.1e-05
2S	1.36e-04	-1.1e-05	-0.01207	0.025010	0.014357	-5.1e-06
1D	0.003885	-7.2e-05	0.007616	-0.01153	0.001657	-1.3e-04
2D	0.004057	-4.5e-05	0.007900	-0.01211	0.002126	-1.6e-04
3D	0.004834	-9.0e-05	0.009447	-0.01430	0.002058	-1.6e-04
4D	0.005048	-5.6e-05	0.009800	-0.01502	0.002641	-2.0e-04
5D	-4.4e-04	5.90e-04	-0.00162	0.003439	-0.00227	4.28e-05
6D	-3.7e-04	5.97e-04	-0.00179	0.003802	0.002445	5.19e-05
7D	-5.4e-04	7.37e-04	-0.00201	0.004274	-0.00282	5.35e-05
8D	-4.6e-04	7.46e-04	-0.00223	0.004725	0.003039	6.48e-05
9D	-5.3e-05	-1.1e-05	-0.00157	0.003341	0.001864	2.28e-06
10D	-7.5e-05	-1.5e-05	-0.00221	0.004686	0.002615	3.20e-06
11D	0.003933	-7.5e-05	0.006594	-0.00995	0.001531	-1.4e-04
12D	0.004118	-4.2e-05	0.006837	-0.01047	0.001994	-1.7e-04
13D	0.010128	-1.9e-04	0.019559	-0.02960	0.004281	-3.4e-04
14D	0.010578	-1.2e-04	0.020289	-0.03110	0.005498	-4.1e-04
15D	-4.7e-04	6.91e-04	-0.00154	0.003261	0.002155	4.94e-05
16D	-4.0e-04	6.99e-04	-0.00170	0.003618	0.002329	6.05e-05
17D	-0.00114	0.001565	-0.00419	0.008910	-0.00587	1.13e-04
18D	-9.8e-04	0.001584	-0.00464	0.009853	0.006337	1.37e-04
19D	-5.2e-05	-1.1e-05	-0.00148	0.003134	0.001748	2.26e-06
20D	-1.9e-04	-3.9e-05	-0.00542	0.011512	0.006422	8.29e-06

1D	0.003896	-3.3e-04	-0.00880	0.006423	0.012261	-1.4e-04
2D	0.004069	-3.5e-04	-0.00938	0.007424	0.012616	-1.8e-04
3D	0.004848	-4.2e-04	-0.01091	0.007967	0.015209	-1.8e-04
4D	0.005063	-4.3e-04	-0.01164	0.009211	0.015650	-2.2e-04
5D	-4.4e-04	6.22e-04	-0.00413	0.006365	-0.00122	2.66e-05
6D	-3.7e-04	5.95e-04	0.003862	0.005992	-0.00140	-5.4e-05
7D	-5.4e-04	7.77e-04	-0.00514	0.007909	-0.00152	3.31e-05
8D	-4.6e-04	7.43e-04	-0.00480	0.007446	-0.00174	-6.7e-05
9D	-5.4e-05	-1.3e-05	-0.00382	0.005219	-6.0e-04	3.08e-06
10D	-7.6e-05	-1.8e-05	-0.00535	0.007321	-8.4e-04	4.32e-06
11D	0.003944	-3.5e-04	-0.00761	0.005562	0.010612	-1.5e-04
12D	0.004130	-3.6e-04	-0.00812	0.006493	0.010935	-1.9e-04
13D	0.010157	-8.7e-04	-0.02259	0.016495	0.031487	-3.7e-04
14D	0.010609	-9.1e-04	-0.02409	0.019081	0.032404	-4.6e-04
15D	-4.7e-04	7.28e-04	-0.00392	0.006040	-0.00116	2.98e-05
16D	-4.0e-04	6.96e-04	-0.00366	0.005683	-0.00132	-6.2e-05
17D	-0.00115	0.001649	-0.01071	0.016490	-0.00317	7.01e-05
18D	-9.8e-04	0.001577	-0.01000	0.015524	-0.00362	-1.4e-04
19D	-5.2e-05	-1.2e-05	-0.00358	0.004888	-5.7e-04	3.01e-06
20D	-1.9e-04	-4.6e-05	-0.01315	0.017954	-0.00208	1.10e-05

Nodo 379

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.75e-04	-6.1e-05	-0.04569	0.037827	-0.04830	0.
2S	1.39e-04	-3.7e-05	-0.02059	0.018310	-0.02189	0.
1D	0.003902	-4.7e-04	-0.01440	0.010017	0.002430	0.
2D	0.004075	-5.1e-04	-0.01476	0.010817	-0.00295	0.
3D	0.004856	-5.9e-04	-0.01786	0.012425	0.003017	0.
4D	0.005071	-6.4e-04	-0.01831	0.013421	-0.00366	0.
5D	-4.4e-04	6.18e-04	-0.00252	0.004251	-0.00379	0.
6D	-3.7e-04	5.79e-04	-0.00226	0.003722	-0.00347	0.
7D	-5.5e-04	7.71e-04	-0.00313	0.005284	-0.00471	0.
8D	-4.7e-04	7.22e-04	-0.00281	0.004626	-0.00431	0.
9D	-5.4e-05	-1.4e-05	-0.00273	0.002885	-0.00266	0.
10D	-7.6e-05	-2.0e-05	-0.00383	0.004047	-0.00373	0.
11D	0.003949	-4.9e-04	-0.01243	0.008640	0.002210	0.
12D	0.004136	-5.4e-04	-0.01274	0.009500	0.002723	0.
13D	0.010172	-0.00123	-0.03697	0.025716	0.006268	0.
14D	0.010627	-0.00135	-0.03791	0.027811	-0.00762	0.
15D	-4.8e-04	7.23e-04	-0.00236	0.004092	-0.00361	0.
16D	-4.0e-04	6.77e-04	-0.00211	0.003570	-0.00330	0.
17D	-0.00115	0.001638	-0.00652	0.011029	-0.00982	0.
18D	-9.8e-04	0.001534	-0.00585	0.009652	-0.00898	0.
19D	-5.2e-05	-1.4e-05	-0.00256	0.002707	-0.00250	0.
20D	-1.9e-04	-5.1e-05	-0.00941	0.009942	-0.00919	0.

Nodo 380

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.74e-04	-9.1e-05	-7.0e-04	6.80e-05	-0.04971	1.01e-05
2S	1.39e-04	-4.7e-05	-7.0e-05	3.10e-05	-0.02280	1.11e-05
1D	0.003909	-6.0e-04	7.68e-05	8.52e-05	-0.03226	-1.3e-04
2D	0.004082	-6.7e-04	8.73e-05	9.69e-05	-0.03256	-1.6e-04
3D	0.004863	-7.4e-04	9.55e-05	1.06e-04	-0.04001	-1.6e-04
4D	0.005080	-8.3e-04	1.09e-04	1.21e-04	-0.04038	-2.0e-04
5D	-4.4e-04	6.08e-04	-9.2e-05	-7.7e-05	0.003482	3.02e-05
6D	-3.7e-04	5.62e-04	-8.4e-05	-7.0e-05	0.003435	-5.8e-05
7D	-5.5e-04	7.59e-04	-1.1e-04	-9.6e-05	0.004323	3.77e-05
8D	-4.7e-04	7.02e-04	-1.1e-04	-8.7e-05	0.004266	-7.3e-05
9D	-5.5e-05	1.61e-05	-4.9e-06	4.80e-06	-0.00374	3.93e-06
10D	-7.7e-05	2.26e-05	-6.9e-06	6.74e-06	-0.00524	5.51e-06
11D	0.003954	-6.2e-04	7.69e-05	8.85e-05	-0.02781	-1.4e-04
12D	0.004142	-7.0e-04	8.91e-05	1.01e-04	-0.02804	-1.8e-04
13D	0.010188	-0.00156	2.00e-04	2.23e-04	-0.08281	-3.4e-04
14D	0.010644	-0.00175	2.28e-04	2.53e-04	-0.08358	-4.3e-04
15D	-4.8e-04	7.10e-04	-1.1e-04	-9.0e-05	0.003191	-3.4e-05
16D	-4.1e-04	6.58e-04	-9.9e-05	-8.2e-05	0.003140	-6.8e-05
17D	-0.00115	0.001611	-2.4e-04	-2.0e-04	0.008989	7.97e-05
18D	-9.8e-04	0.001490	-2.2e-04	-1.9e-04	0.008867	-1.5e-04
19D	-5.3e-05	1.54e-05	-4.8e-06	4.52e-06	-0.00350	3.76e-06
20D	-1.9e-04	5.67e-05	-1.7e-05	1.66e-05	-0.01287	1.38e-05

Nodo 381

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.75e-04	4.31e-05	-6.6e-04	-6.6e-05	0.016149	2.12e-06
2S	1.39e-04	-6.6e-06	-4.7e-05	-3.4e-05	0.007341	2.33e-06
1D	0.003919	3.62e-05	2.87e-04	1.67e-04	-0.00567	-7.8e-05
2D	0.004103	9.12e-05	2.90e-04	1.74e-04	-0.00583	-1.1e-04
3D	0.004877	4.51e-05	3.58e-04	2.07e-04	-0.00704	-9.7e-05
4D	0.005106	1.14e-04	3.61e-04	2.17e-04	-0.00724	-1.4e-04
5D	-4.4e-04	5.58e-04	-1.2e-04	-3.4e-05	9.13e-04	3.41e-05
6D	-3.8e-04	5.81e-04	-1.2e-04	-3.1e-05	9.73e-04	5.77e-05
7D	-5.5e-04	6.97e-04	-1.4e-04	-4.3e-05	0.001136	4.26e-05
8D	-4.7e-04	7.26e-04	-1.5e-04	-3.9e-05	0.001210	7.21e-05
9D	-5.4e-05	-1.1e-05	-4.4e-06	-5.1e-06	8.97e-04	2.18e-06
10D	-7.6e-05	-1.5e-05	-6.2e-06	-7.1e-06	0.001259	3.05e-06
11D	0.003971	3.84e-05	2.90e-04	1.63e-04	-0.00494	-8.6e-05
12D	0.004170	9.90e-05	2.93e-04	1.72e-04	-0.00508	-1.2e-04
13D	0.010217	9.48e-05	7.49e-04	4.33e-04	-0.01458	-2.0e-04
14D	0.010701	2.40e-04	7.57e-04	4.53e-04	-0.01499	-2.9e-04
15D	-4.8e-04	6.54e-04	-1.3e-04	-3.9e-05	8.92e-04	3.95e-05

16D	-4.1e-04	6.80e-04	-1.4e-04	-3.6e-05	9.54e-04	6.76e-05
17D	-0.00116	0.001481	-3.1e-04	-9.1e-05	0.002372	9.04e-05
18D	-1.0e-03	0.001541	-3.1e-04	-8.2e-05	0.002529	1.53e-04
19D	-5.2e-05	-1.0e-05	-4.3e-06	-4.8e-06	8.47e-04	2.16e-06
20D	-1.9e-04	-3.7e-05	-1.6e-05	-1.8e-05	0.003110	7.94e-06

Nodo 382

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.76e-04	2.60e-05	-0.00837	0.029361	0.002047	0.
2S	1.39e-04	-1.2e-05	-0.00359	0.013171	0.001011	0.
1D	0.003926	-7.4e-05	0.002624	-0.01099	5.59e-04	0.
2D	0.004110	-4.6e-05	0.002719	-0.01131	7.58e-04	0.
3D	0.004885	-9.2e-05	0.003256	-0.01364	6.96e-04	0.
4D	0.005115	-5.8e-05	0.003373	-0.01403	9.44e-04	0.
5D	-4.4e-04	5.91e-04	-4.9e-04	0.001836	-3.3e-04	0.
6D	-3.8e-04	5.99e-04	-5.5e-04	0.002008	-3.8e-04	0.
7D	-5.5e-04	7.38e-04	-6.1e-04	0.002282	-4.1e-04	0.
8D	-4.7e-04	7.47e-04	-6.8e-04	0.002495	-4.7e-04	0.
9D	-5.4e-05	-1.1e-05	-4.4e-04	0.001765	1.96e-04	0.
10D	-7.6e-05	-1.5e-05	-6.2e-04	0.002476	2.74e-04	0.
11D	0.003977	-7.7e-05	0.002279	-0.00954	6.02e-04	0.
12D	0.004177	-4.4e-05	0.002362	-0.00979	8.15e-04	0.
13D	0.010235	-1.9e-04	0.006742	-0.02824	0.001467	0.
14D	0.010719	-1.2e-04	0.006985	-0.02904	0.001989	0.
15D	-4.8e-04	6.93e-04	-4.8e-04	0.001764	-3.4e-04	0.
16D	-4.1e-04	7.00e-04	-5.3e-04	0.001927	-3.8e-04	0.
17D	-0.00116	0.001568	-0.00127	0.004761	-8.5e-04	0.
18D	-0.00100	0.001587	-0.00142	0.005207	-9.8e-04	0.
19D	-5.2e-05	-1.1e-05	-4.2e-04	0.001656	1.85e-04	0.
20D	-1.9e-04	-3.9e-05	-0.00154	0.006082	6.80e-04	0.

Nodo 383

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.86e-04	-1.2e-05	-0.01741	0.068745	0.017704	-5.4e-05
2S	1.44e-04	-2.5e-05	-0.00765	0.031247	0.007864	-2.2e-05
1D	0.003938	-2.0e-04	-0.00102	-0.00481	0.004991	-9.9e-05
2D	0.004123	-1.9e-04	-0.00125	-0.00558	0.005199	-1.3e-04
3D	0.004899	-2.5e-04	-0.00126	-0.00597	0.006191	-1.2e-04
4D	0.005130	-2.4e-04	-0.00155	-0.00693	0.006449	-1.7e-04
5D	-4.4e-04	6.18e-04	-0.00107	0.004454	0.001250	2.89e-05
6D	-3.8e-04	6.08e-04	-0.00108	0.004530	-0.00110	5.54e-05
7D	-5.5e-04	7.71e-04	-0.00133	0.005535	0.001554	3.61e-05
8D	-4.8e-04	7.59e-04	-0.00135	0.005629	-0.00137	6.92e-05
9D	-5.5e-05	-1.2e-05	-9.5e-04	0.003931	9.83e-04	-3.3e-06
10D	-7.7e-05	-1.7e-05	-0.00133	0.005514	0.001379	-4.6e-06
11D	0.003989	-2.1e-04	-9.2e-04	-0.00424	0.004318	-1.1e-04
12D	0.004190	-1.9e-04	-0.00113	-0.00491	0.004500	-1.4e-04
13D	0.010265	-5.3e-04	-0.00262	-0.01238	0.012818	-2.6e-04
14D	0.010752	-4.9e-04	-0.00323	-0.01436	0.013352	-3.5e-04
15D	-4.8e-04	7.23e-04	-0.00101	0.004229	0.001218	3.30e-05
16D	-4.2e-04	7.11e-04	-0.00103	0.004306	0.001079	6.47e-05
17D	-0.00116	0.001638	-0.00276	0.011541	0.003246	7.64e-05
18D	-0.00100	0.001612	-0.00281	0.011738	-0.00286	1.47e-04
19D	-5.3e-05	-1.2e-05	-8.9e-04	0.003690	9.29e-04	-3.2e-06
20D	-1.9e-04	-4.3e-05	-0.00328	0.013552	0.003412	-1.2e-05

Nodo 384

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.90e-04	-3.4e-05	-0.03584	0.059685	0.024745	-3.7e-05
2S	1.45e-04	-2.9e-05	-0.01586	0.027322	0.011043	-1.3e-05
1D	0.003953	-3.4e-04	-0.00615	0.006564	0.009501	-1.3e-04
2D	0.004140	-3.5e-04	-0.00644	0.007226	0.009789	-1.7e-04
3D	0.004918	-4.2e-04	-0.00763	0.008143	0.011788	-1.6e-04
4D	0.005151	-4.4e-04	-0.00799	0.008964	0.012145	-2.1e-04
5D	-4.5e-04	6.23e-04	-0.00182	0.004422	0.001346	2.74e-05
6D	-3.8e-04	5.96e-04	-0.00169	0.004159	-0.00126	5.63e-05
7D	-5.6e-04	7.78e-04	-0.00226	0.005496	0.001673	3.42e-05
8D	-4.8e-04	7.44e-04	-0.00210	0.005169	-0.00157	7.03e-05
9D	-5.5e-05	-1.3e-05	-0.00185	0.003740	0.001229	2.99e-06
10D	-7.8e-05	-1.8e-05	-0.00260	0.005246	0.001724	4.17e-06
11D	0.004004	-3.5e-04	-0.00536	0.005688	0.008325	-1.4e-04
12D	0.004206	-3.6e-04	-0.00561	0.006290	0.008599	-1.8e-04
13D	0.010305	-8.8e-04	-0.01581	0.016859	0.024425	-3.4e-04
14D	0.010796	-9.2e-04	-0.01655	0.018565	0.025170	-4.4e-04
15D	-4.8e-04	7.29e-04	-0.00173	0.004208	-0.00131	3.09e-05
16D	-4.2e-04	6.97e-04	-0.00160	0.003956	-0.00122	6.56e-05
17D	-0.00117	0.001652	-0.00472	0.011461	0.003494	7.24e-05
18D	-0.00101	0.001579	-0.00439	0.010779	-0.00328	1.49e-04
19D	-5.3e-05	-1.2e-05	-0.00175	0.003508	0.001169	2.93e-06
20D	-2.0e-04	-4.6e-05	-0.00641	0.012884	0.004293	1.07e-05

6D	-3.9e-04	5.79e-04	-0.00143	0.002207	-0.00238	0.
7D	-5.6e-04	7.73e-04	-0.00187	0.003025	-0.00315	0.
8D	-4.8e-04	7.23e-04	-0.00178	0.002742	-0.00296	0.
9D	-5.6e-05	-1.4e-05	-0.00172	0.002001	-0.00162	0.
10D	-7.8e-05	-2.0e-05	-0.00241	0.002807	-0.00227	0.
11D	0.004013	-4.9e-04	-0.00912	0.007772	0.001274	0.
12D	0.004217	-5.4e-04	-0.00934	0.008065	0.001646	0.
13D	0.010330	-0.00123	-0.02684	0.023236	0.003595	0.
14D	0.010824	-0.00134	-0.02747	0.024024	0.004631	0.
15D	-4.8e-04	7.24e-04	-0.00141	0.002328	-0.00244	0.
16D	-4.2e-04	6.78e-04	-0.00133	0.002112	-0.00229	0.
17D	-0.00117	0.001641	-0.00389	0.006311	-0.00657	0.
18D	-0.00101	0.001536	-0.00370	0.005721	-0.00617	0.
19D	-5.4e-05	-1.4e-05	-0.00162	0.001878	-0.00154	0.
20D	-2.0e-04	-5.1e-05	-0.00594	0.006897	-0.00564	0.

Nodo 386

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.89e-04	-8.8e-05	-6.8e-04	3.81e-05	-0.03253	-6.1e-05
2S	1.44e-04	-4.7e-05	-5.9e-05	1.65e-05	-0.01449	-2.7e-05
1D	0.003966	-5.9e-04	1.02e-04	3.97e-05	-0.02293	-1.5e-04
2D	0.004154	-6.7e-04	1.16e-04	4.15e-05	-0.02317	-1.9e-04
3D	0.004934	-7.4e-04	1.27e-04	4.95e-05	-0.02845	-1.8e-04
4D	0.005170	-8.3e-04	1.44e-04	5.18e-05	-0.02874	-2.3e-04
5D	-4.5e-04	6.10e-04	-1.2e-04	-3.7e-05	0.003318	3.70e-05
6D	-3.9e-04	5.64e-04	-1.1e-04	-3.5e-05	0.003370	6.13e-05
7D	-5.6e-04	7.62e-04	-1.5e-04	-4.6e-05	0.004122	4.62e-05
8D	-4.8e-04	7.04e-04	-1.3e-04	-4.4e-05	0.004186	7.65e-05
9D	-5.6e-05	1.61e-05	-3.9e-06	3.80e-06	-0.00252	-4.7e-06
10D	-7.8e-05	2.26e-05	-5.5e-06	5.33e-06	-0.00353	-6.7e-06
11D	0.004016	-6.2e-04	1.04e-04	4.28e-05	-0.02006	-1.6e-04
12D	0.004221	-7.0e-04	1.19e-04	4.46e-05	-0.02027	-2.0e-04
13D	0.010338	-0.00155	2.65e-04	1.04e-04	-0.05894	-3.8e-04
14D	0.010834	-0.00174	3.02e-04	1.09e-04	-0.05955	-4.9e-04
15D	-4.9e-04	7.14e-04	-1.4e-04	-4.3e-05	0.003110	4.20e-05
16D	-4.2e-04	6.60e-04	-1.3e-04	-4.1e-05	0.003152	7.13e-05
17D	-0.00118	0.001618	-3.1e-04	-9.7e-05	0.008585	9.78e-05
18D	-0.00101	0.001496	-2.8e-04	-9.3e-05	0.008717	1.62e-04
19D	-5.4e-05	1.55e-05	-3.9e-06	3.60e-06	-0.00236	-4.5e-06
20D	-2.0e-04	5.68e-05	-1.4e-05	1.32e-05	-0.00869	-1.7e-05

Nodo 387

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.73e-04	4.26e-05	-6.3e-04	1.56e-04	0.002157	-7.2e-06
2S	1.37e-04	-6.8e-06	-3.3e-05	7.02e-05	9.15e-04	3.73e-07
1D	0.003945	3.54e-05	3.41e-04	7.80e-05	0.001062	-7.4e-05
2D	0.004140	8.77e-05	3.45e-04	7.51e-05	0.001100	-1.0e-04
3D	0.004909	4.41e-05	4.25e-04	9.70e-05	0.001320	-9.2e-05
4D	0.005152	1.09e-04	4.30e-04	9.34e-05	0.001366	-1.3e-04
5D	-4.5e-04	5.58e-04	-1.4e-04	-6.4e-05	-1.2e-04	3.70e-05
6D	-3.9e-04	5.81e-04	-1.4e-04	-6.9e-05	-1.2e-04	5.29e-05
7D	-5.6e-04	6.97e-04	-1.7e-04	-8.0e-05	-1.5e-04	4.61e-05
8D	-4.9e-04	7.26e-04	-1.7e-04	-8.6e-05	-1.5e-04	6.60e-05
9D	-5.5e-05	-1.1e-05	-5.0e-06	8.49e-06	9.52e-05	-2.4e-06
10D	-7.7e-05	-1.5e-05	-7.0e-06	1.19e-05	1.34e-04	-3.4e-06
11D	0.004001	3.69e-05	3.43e-04	7.74e-05	0.001007	-1.8e-05
12D	0.004213	9.50e-05	3.47e-04	7.38e-05	0.001046	-1.1e-04
13D	0.010286	9.26e-05	8.89e-04	2.03e-04	0.002751	-1.9e-04
14D	0.010799	2.30e-04	8.99e-04	1.95e-04	0.002848	-2.7e-04
15D	-4.8e-04	6.54e-04	-1.6e-04	-7.5e-05	-1.2e-04	4.27e-05
16D	-4.2e-04	6.80e-04	-1.6e-04	-8.0e-05	-1.2e-04	6.19e-05
17D	-0.00117	0.001480	-3.6e-04	-1.7e-04	-3.2e-04	9.79e-05
18D	-0.00102	0.001541	-3.7e-04	-1.8e-04	-3.1e-04	1.40e-04
19D	-5.3e-05	-1.0e-05	-4.9e-06	7.98e-06	9.09e-05	2.39e-06
20D	-1.9e-04	-3.7e-05	-1.8e-05	2.93e-05	3.34e-04	8.76e-06

Nodo 388

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	4.78e-04	2.31e-05	-7.3e-04	0.005185	-0.00262	-4.3e-05
2S	1.39e-04	-1.3e-05	-7.0e-05	0.002723	-0.00113	-1.7e-05
1D	0.003957	-7.6e-05	-6.6e-05	-0.00110	-4.4e-04	-1.3e-04
2D	0.004153	-4.8e-05	-8.0e-05	-0.00126	-4.7e-04	-1.5e-04
3D	0.004923	-9.5e-05	-8.2e-05	-0.00136	-5.5e-04	-1.6e-04
4D	0.005167	-6.0e-05	-9.9e-05	-0.00157	-5.9e-04	-1.9e-04
5D	-4.5e-04	5.91e-04	-7.8e-05	0.001043	-1.8e-04	5.59e-05
6D	-3.9e-04	5.99e-04	-8.4e-05	0.001127	1.98e-04	5.94e-05
7D	-5.6e-04	7.38e-04	-9.7e-05	0.001301	-2.2e-04	6.98e-05
8D	-4.9e-04	7.48e-04	-1.0e-04	0.001406	2.47e-04	7.42e-05
9D	-5.5e-05	-1.1e-05	-4.8e-06	2.71e-04	-1.1e-04	-3.4e-06
10D	-7.7e-05	-1.5e-05	-6.8e-06	3.81e-04	-1.6e-04	-4.8e-06
11D	0.004012	-7.9e-05	-6.8e-05	-0.00103	-4.1e-04	-1.3e-04
12D	0.004225	-4.5e-05	-8.3e-05	-0.00121	-4.4e-04	-1.6e-04
13D	0.010316	-2.0e-04	-1.7e-04	-0.00284	-0.00115	-3.3e-04
14D	0.010831	-1.2e-04	-2.1e-04	-0.00327	-0.00123	-3.9e-04
15D	-4.8e-04	6.92e-04	-9.1e-05	0.001184	-1.9e-04	6.50e-05
16D	-4.2e-04	7.01e-04	-9.8e-05	0.001275	2.19e-04	6.95e-05
17D	-0.00118	0.001568	-2.1e-04	0.002754	-4.7e-04	1.48e-04
18D	-0.00103	0.001587	-2.2e-04	0.002975	5.21e-04	1.58e-04
19D	-5.3e-05	-1.1e-05	-4.7e-06	2.83e-04	-1.1e-04	-3.3e-06
20D	-1.9e-04	-3.9e-05	-1.7e-05	0.001040	-3.9e-04	-1.2e-05

Nodo 389

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.13e-04	-2.1e-05	-0.00115	0.003666	0.004536	-4.5e-05
2S	1.54e-04	-2.9e-05	-2.5e-04	0.001695	0.001962	-1.3e-05
1D	0.003986	-2.1e-04	-5.2e-04	2.05e-04	0.001364	-1.6e-04
2D	0.004185	-1.9e-04	-5.6e-04	2.52e-04	0.001411	-2.0e-04
3D	0.004960	-2.6e-04	-6.5e-04	2.54e-04	0.001694	-2.0e-04
4D	0.005208	-2.4e-04	-6.9e-04	3.13e-04	0.001751	-2.5e-04
5D	-4.5e-04	6.21e-04	7.05e-05	2.46e-04	-2.1e-04	2.81e-05
6D	-3.9e-04	6.11e-04	-6.8e-05	2.47e-04	-2.1e-04	-5.5e-05
7D	-5.6e-04	7.76e-04	8.79e-05	3.05e-04	-2.6e-04	3.50e-05
8D	-4.9e-04	7.63e-04	-8.5e-05	3.07e-04	-2.6e-04	-6.8e-05
9D	-5.6e-05	-1.2e-05	-2.6e-05	2.01e-04	1.99e-04	3.34e-06
10D	-7.9e-05	-1.7e-05	-3.7e-05	2.81e-04	2.80e-04	4.69e-06
11D	0.004040	-2.1e-04	-5.2e-04	-1.9e-04	0.001236	-1.7e-04
12D	0.004257	-2.0e-04	-5.6e-04	2.28e-04	0.001282	-2.1e-04
13D	0.010392	-5.4e-04	-0.00136	5.28e-04	0.003518	-4.3e-04
14D	0.010915	-5.1e-04	-0.00145	6.50e-04	0.003638	-5.2e-04
15D	-4.2e-04	7.28e-04	7.84e-05	2.40e-04	-2.1e-04	3.12e-05
16D	-4.3e-04	7.16e-04	-7.7e-05	2.41e-04	-2.1e-04	-6.3e-05
17D	-0.00118	0.001647	1.86e-04	6.38e-04	-5.4e-04	7.39e-05
18D	-0.00103	0.001621	-1.8e-04	6.41e-04	-5.5e-04	-1.4e-04
19D	-5.4e-05	-1.2e-05	-2.5e-05	1.89e-04	1.91e-04	3.26e-06
20D	-2.0e-04	-4.4e-05	-9.1e-05	6.93e-04	7.00e-04	1.20e-05

Nodo 390

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.04e-04	-3.3e-05	-0.01507	0.033672	0.026409	-2.4e-05
2S	1.50e-04	-2.8e-05	-0.00639	0.015244	0.011684	-5.9e-06
1D	0.004012	-3.4e-04	-0.00364	0.005308	0.006318	-1.5e-04
2D	0.004213	-3.5e-04	-0.00377	0.005610	0.006598	-1.8e-04
3D	0.004992	-4.2e-04	-0.00452	0.006584	0.007841	-1.8e-04
4D	0.005243	-4.4e-04	-0.00468	0.006960	0.008190	-2.3e-04
5D	-4.5e-04	6.23e-04	-6.2e-04	0.002025	0.001187	2.66e-05
6D	-4.0e-04	5.95e-04	5.94e-04	0.001891	-0.00111	-5.7e-05
7D	-5.7e-04	7.78e-04	-7.7e-04	0.002516	0.001476	3.32e-05
8D	-4.9e-04	7.43e-04	7.39e-04	0.002350	-0.00138	-7.1e-05
9D	-5.7e-05	-1.3e-05	-6.4e-04	0.001899	0.001171	2.70e-06
10D	-7.9e-05	-1.8e-05	-9.0e-04	0.002663	0.001642	3.78e-06
11D	0.004066	-3.5e-04	-0.00320	0.004617	0.005654	-1.5e-04
12D	0.004285	-3.7e-04	-0.00333	0.004889	0.005941	-1.9e-04
13D	0.010459	-8.9e-04	-0.00936	0.013636	0.016271	-3.8e-04
14D	0.010989	-9.3e-04	-0.00970	0.014416	0.017003	-4.7e-04
15D	-4.9e-04	7.29e-04	-6.0e-04	0.001930	0.001162	2.97e-05
16D	-4.3e-04	6.97e-04	5.81e-04	0.001801	-0.00107	-6.6e-05
17D	-0.00119	0.001652	-0.00161	0.005248	0.003085	7.02e-05
18D	-0.00104	0.001578	0.001543	0.004901	-0.00287	-1.5e-04
19D	-5.5e-05	-1.2e-05	-6.1e-04	0.001787	0.001122	2.67e-06
20D	-2.0e-04	-4.5e-05	-0.00225	0.006562	0.004119	9.81e-06

Nodo 391

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.03e-04	-6.5e-05	-0.01923	0.027690	-0.01744	0.
2S	1.49e-04	-3.8e-05	-0.00827	0.012438	-0.00764	0.
1D	0.004023	-4.7e-04	-0.00660	0.009003	8.36e-04	0.
2D	0.004225	-5.2e-04	-0.00676	0.009271	9.51e-04	0.
3D	0.005005	-5.9e-04	-0.00819	0.011169	0.001040	0.
4D	0.005258	-6.4e-04	-0.00839	0.011502	0.001182	0.
5D	-4.6e-04	6.20e-04	-0.00106	-0.00162	-0.00135	0.
6D	-4.0e-04	5.80e-04	-0.00105	0.001507	-0.00131	0.
7D	-5.7e-04	7.74e-04	-0.00131	-0.00202	-0.00168	0.
8D	-5.0e-04	7.24e-04	-0.00130	0.001874	-0.00163	0.
9D	-5.7e-05	-1.4e-05	-9.5e-04	0.001703	-6.6e-04	0.
10D	-8.e-05	-2.e-05	-0.00133	0.002389	-9.2e-04	0.
11D	0.004076	-4.9e-04	-0.00585	0.007857	8.11e-04	0.
12D	0.004297	-5.4e-04	-0.00601	0.008105	9.27e-04	0.
13D	0.010487	-0.00123	-0.01698	0.023136	0.002171	0.
14D	0.011021	-0.00135	-0.01740	0.023828	0.002470	0.
15D	-4.9e-04	7.25e-04	-0.00101	-0.00157	0.001332	0.
16D	-4.3e-04	6.78e-04	-9.9e-04	-0.00145	0.001294	0.
17D	-0.00120	0.001642	-0.00274	-0.00421	-0.00351	0.
18D	-0.00105	0.001536	-0.00271	-0.00391	-0.00340	0.
19D	-5.5e-05	1.38e-05	-9.0e-04	0.001606	-6.4e-04	0.
20D	-2.0e-04	5.08e-05	-0.00331	0.005897	-0.00236	0.

11D	0.004080	-6.2e-04	1.34e-04	9.30e-05	-0.01318	-1.4e-04
12D	0.004302	-7.0e-04	1.54e-04	1.07e-04	-0.01333	-1.8e-04
13D	0.010496	-0.00155	3.42e-04	2.34e-04	-0.03814	-3.4e-04
14D	0.011032	-0.00174	3.87e-04	2.67e-04	-0.03856	-4.3e-04
15D	-5.0e-04	7.17e-04	-1.7e-04	-9.5e-05	0.002682	-3.1e-05
16D	-4.3e-04	6.63e-04	-1.5e-04	-8.6e-05	0.002716	-6.5e-05
17D	-0.00120	0.001626	-3.8e-04	-2.2e-04	0.007319	-7.2e-05
18D	-0.00105	0.001501	-3.5e-04	-1.9e-04	0.007419	-1.5e-04
19D	-5.5e-05	1.55e-05	-3.9e-06	3.39e-06	-0.00159	2.40e-06
20D	-2.0e-04	5.69e-05	-1.4e-05	1.24e-05	-0.00583	8.81e-06

Nodo 393

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.31e-04	1.20e-05	-8.3e-04	-0.00158	-0.00174	-4.6e-05
2S	1.56e-04	-1.5e-05	-9.0e-05	-6.8e-04	-0.00105	-2.8e-06
1D	0.004073	-2.1e-04	-4.8e-04	2.26e-04	6.50e-04	-2.1e-04
2D	0.004290	-2.0e-04	-5.1e-04	2.36e-04	6.88e-04	-2.6e-04
3D	0.005069	-2.6e-04	-6.0e-04	2.81e-04	8.08e-04	-2.6e-04
4D	0.005338	-2.5e-04	-6.4e-04	2.93e-04	8.55e-04	-3.2e-04
5D	-4.6e-04	6.25e-04	8.67e-05	-1.4e-04	-0.00134	-4.6e-05
6D	-4.1e-04	6.15e-04	-8.9e-05	-1.3e-04	-0.00136	-7.6e-05
7D	-5.8e-04	7.80e-04	1.08e-04	-1.7e-04	-0.00167	-5.8e-05
8D	-5.1e-04	7.68e-04	-1.1e-04	-1.7e-04	-0.00170	-9.5e-05
9D	-5.8e-05	-1.2e-05	-1.0e-05	-8.2e-05	-1.8e-04	4.05e-06
10D	-8.1e-05	-1.6e-05	-1.4e-05	-1.2e-04	-2.5e-04	5.68e-06
11D	0.004131	-2.2e-04	-4.8e-04	2.07e-04	6.01e-04	-2.2e-04
12D	0.004367	-2.0e-04	-5.2e-04	2.16e-04	6.42e-04	-2.7e-04
13D	0.010621	-5.5e-04	-0.00126	5.83e-04	0.001680	-5.5e-04
14D	0.011190	-5.2e-04	-0.00134	6.09e-04	0.001779	-6.7e-04
15D	-5.0e-04	7.32e-04	9.86e-05	-1.5e-04	-0.00141	-5.3e-05
16D	-4.5e-04	7.20e-04	-1.0e-04	-1.4e-04	-0.00144	-8.8e-05
17D	-0.00122	0.001657	2.29e-04	-3.7e-04	-0.00351	-1.2e-04
18D	-0.00108	0.001630	-2.4e-04	-3.5e-04	-0.00357	-2.0e-04
19D	-5.6e-05	-1.1e-05	-1.0e-05	-7.7e-05	-1.7e-04	4.00e-06
20D	-2.0e-04	-4.1e-05	-3.7e-05	-2.8e-04	-6.3e-04	1.47e-05

Nodo 394

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.21e-04	-3.7e-05	-0.00484	0.012378	0.011220	-5.2e-05
2S	1.54e-04	-2.9e-05	-0.00179	0.005464	0.005069	-1.3e-05
1D	0.004079	-3.4e-04	-0.00168	0.003784	0.002763	-1.6e-04
2D	0.004296	-3.6e-04	-0.00175	0.003927	0.002877	-2.0e-04
3D	0.005075	-4.3e-04	-0.00209	0.004696	0.003430	-2.0e-04
4D	0.005345	-4.5e-04	-0.00217	0.004873	0.003573	-2.5e-04
5D	-4.6e-04	6.23e-04	3.92e-04	-6.4e-04	0.001958	3.03e-05
6D	-4.1e-04	5.95e-04	4.03e-04	-5.9e-04	0.001907	-6.3e-05
7D	-5.8e-04	7.78e-04	4.87e-04	-8.0e-04	0.002438	3.78e-05
8D	-5.1e-04	7.43e-04	5.02e-04	-7.4e-04	0.002375	-7.8e-05
9D	-5.8e-05	-1.3e-05	-1.7e-04	5.25e-04	4.34e-04	3.26e-06
10D	-8.1e-05	-1.8e-05	-2.4e-04	7.37e-04	6.08e-04	4.58e-06
11D	0.004136	-3.5e-04	-0.00150	0.003348	0.002523	-1.7e-04
12D	0.004373	-3.7e-04	-0.00157	0.003499	0.002646	-2.1e-04
13D	0.010634	-8.9e-04	-0.00433	0.009736	0.007129	-4.2e-04
14D	0.011205	-9.3e-04	-0.00450	0.010109	0.007428	-5.2e-04
15D	-5.0e-04	7.29e-04	3.99e-04	-6.4e-04	0.002059	3.40e-05
16D	-4.5e-04	6.96e-04	4.17e-04	-5.8e-04	0.002002	-7.3e-05
17D	-0.00122	0.001651	0.001022	-0.00166	0.005127	7.99e-05
18D	-0.00108	0.001577	0.001054	-0.00154	0.004993	-1.7e-04
19D	-5.6e-05	-1.2e-05	-1.7e-04	5.12e-04	4.27e-04	3.21e-06
20D	-2.0e-04	-4.5e-05	-6.4e-04	0.001881	0.001570	1.18e-05

Nodo 395

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.15e-04	-6.6e-05	-0.00811	0.022225	-0.00410	0.
2S	1.54e-04	-3.8e-05	-0.00336	0.009652	-0.00165	0.
1D	0.004083	-4.7e-04	-0.00263	0.009029	-8.3e-04	0.
2D	0.004301	-5.2e-04	-0.00271	0.009221	-9.0e-04	0.
3D	0.005081	-5.9e-04	-0.00327	0.011206	-0.00103	0.
4D	0.005352	-6.4e-04	-0.00336	0.011445	-0.00111	0.
5D	-4.7e-04	6.20e-04	-7.5e-04	-0.00202	0.001224	0.
6D	-4.1e-04	5.80e-04	-7.4e-04	-0.00204	-0.00119	0.
7D	-5.8e-04	7.74e-04	-9.3e-04	-0.00251	0.001525	0.
8D	-5.1e-04	7.24e-04	-9.2e-04	-0.00253	-0.00149	0.
9D	-5.8e-05	-1.4e-05	-3.3e-04	0.001205	1.73e-04	0.
10D	-8.1e-05	-2.0e-05	-4.7e-04	0.001690	2.42e-04	0.
11D	0.004141	-4.9e-04	-0.00237	0.008053	-7.9e-04	0.
12D	0.004378	-5.4e-04	-0.00245	0.008249	-8.6e-04	0.
13D	0.010646	-0.00123	-0.00678	0.023249	-0.00215	0.
14D	0.011219	-0.00135	-0.00698	0.023749	-0.00232	0.
15D	-5.0e-04	7.25e-04	-7.6e-04	-0.00198	0.001305	0.
16D	-4.5e-04	6.79e-04	-7.5e-04	-0.00200	-0.00127	0.
17D	-0.00122	0.001644	-0.00196	-0.00524	0.003211	0.
18D	-0.00109	0.001537	-0.00192	-0.00529	-0.00313	0.
19D	-5.6e-05	1.38e-05	-3.2e-04	0.001148	1.86e-04	0.
20D	-2.1e-04	5.08e-05	-0.00119	0.004217	6.84e-04	0.

Nodo 396

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.07e-04	-7.8e-05	-6.5e-04	4.77e-05	-0.01217	-1.2e-05
2S	1.53e-04	-4.7e-05	-4.5e-05	4.05e-05	-0.00559	-1.7e-05

1D	0.004085	-5.9e-04	1.64e-04	6.45e-05	-0.00533	-1.4e-04
2D	0.004303	-6.7e-04	1.85e-04	7.06e-05	-0.00541	-1.8e-04
3D	0.005083	-7.4e-04	2.04e-04	8.04e-05	-0.00662	-1.8e-04
4D	0.005354	-8.3e-04	2.31e-04	8.79e-05	-0.00672	-2.3e-04
5D	-4.7e-04	6.16e-04	-1.8e-04	-6.6e-05	-0.00105	2.99e-05
6D	-4.1e-04	5.68e-04	-1.6e-04	-6.1e-05	-0.00106	5.83e-05
7D	-5.8e-04	7.69e-04	-2.2e-04	-8.3e-05	-0.00131	3.74e-05
8D	-5.1e-04	7.09e-04	-2.0e-04	-7.6e-05	-0.00132	7.27e-05
9D	-5.8e-05	1.62e-05	-4.1e-06	5.48e-06	-7.1e-04	3.23e-06
10D	-8.2e-05	2.27e-05	-5.7e-06	7.69e-06	-9.9e-04	4.52e-06
11D	0.004142	-6.2e-04	1.69e-04	6.87e-05	-0.00481	-1.5e-04
12D	0.004380	-7.0e-04	1.93e-04	7.51e-05	-0.00489	-1.9e-04
13D	0.010650	-0.00155	4.27e-04	1.69e-04	-0.01374	-3.8e-04
14D	0.011224	-0.00174	4.84e-04	1.85e-04	-0.01395	-4.7e-04
15D	-5.1e-04	7.20e-04	-2.0e-04	-7.7e-05	-0.00103	3.38e-05
16D	-4.5e-04	6.65e-04	-1.9e-04	-7.1e-05	-0.00104	6.78e-05
17D	-0.00122	0.001632	-4.6e-04	-1.8e-04	-0.00273	7.90e-05
18D	-0.00109	0.001506	-4.3e-04	-1.6e-04	-0.00276	1.54e-04
19D	-5.6e-05	1.56e-05	-4.1e-06	5.16e-06	-6.7e-04	3.13e-06
20D	-2.1e-04	5.71e-05	-1.5e-05	1.90e-05	-0.00246	1.15e-05

Nodo 397

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.59e-04	2.24e-05	-7.5e-04	0.001568	1.12e-05	-7.5e-05
2S	1.61e-04	-1.1e-05	-3.5e-05	7.52e-04	-3.0e-05	-1.9e-05
1D	0.004154	-2.1e-04	-4.5e-04	9.77e-05	-5.5e-04	-1.6e-04
2D	0.004386	-2.0e-04	-4.8e-04	1.17e-04	-5.9e-04	-1.9e-04
3D	0.005169	-2.6e-04	-5.5e-04	1.21e-04	-6.9e-04	-2.0e-04
4D	0.005459	-2.5e-04	-5.9e-04	1.45e-04	-7.4e-04	-2.4e-04
5D	-4.8e-04	6.26e-04	-1.2e-04	1.42e-04	8.94e-05	3.02e-05
6D	-4.3e-04	6.16e-04	-1.2e-04	1.42e-04	9.04e-05	-6.2e-05
7D	-5.9e-04	7.82e-04	-1.5e-04	1.77e-04	1.12e-04	3.77e-05
8D	-5.4e-04	7.70e-04	-1.5e-04	1.76e-04	1.13e-04	-7.7e-05
9D	-5.9e-05	-1.2e-05	8.84e-06	8.86e-05	-1.5e-05	3.59e-06
10D	-8.3e-05	-1.6e-05	1.24e-05	1.24e-04	-2.0e-05	5.03e-06
11D	0.004215	-2.2e-04	-4.5e-04	-9.6e-05	-5.7e-04	-1.7e-04
12D	0.004469	-2.0e-04	-4.9e-04	1.12e-04	-6.1e-04	-2.0e-04
13D	0.010831	-5.5e-04	-0.00116	2.54e-04	-0.00144	-4.2e-04
14D	0.011442	-5.2e-04	-0.00124	3.02e-04	-0.00155	-5.1e-04
15D	-5.2e-04	7.33e-04	-1.4e-04	1.50e-04	9.81e-05	3.35e-05
16D	-4.7e-04	7.21e-04	-1.4e-04	1.48e-04	1.01e-04	-7.1e-05
17D	-0.00125	0.001660	-3.2e-04	3.72e-04	2.35e-04	7.96e-05
18D	-0.00113	0.001634	-3.3e-04	3.70e-04	2.38e-04	-1.6e-04
19D	-5.7e-05	-1.1e-05	9.11e-06	8.34e-05	-1.4e-05	3.50e-06
20D	-2.1e-04	-4.1e-05	3.35e-05	3.06e-04	-5.1e-05	1.29e-05

Nodo 398

CdC	Sx (cm)	Sv (cm)	Sz (cm)	Rx (°)	Rv (°)	Rz (°)
1S	5.47e-04	-3.7e-05	-8.1e-04	0.005972	5.93e-05	-5.7e-05
2S	1.60e-04	-2.9e-05	-3.4e-05	0.002538	-1.1e-05	-1.7e-05
1D	0.004147	-3.4e-04	-2.5e-04	0.003071	9.34e-05	-1.5e-04
2D	0.004379	-3.6e-04	-2.6e-04	0.003217	9.57e-05	-1.8e-04
3D	0.005161	-4.3e-04	-3.1e-04	0.003812	1.16e-04	-1.9e-04
4D	0.005450	-4.5e-04	-3.3e-04	0.003994	1.19e-04	-2.3e-04
5D	-4.7e-04	6.23e-04	-1.5e-04	0.001252	8.56e-05	2.71e-05
6D	-4.3e-04	5.95e-04	-1.4e-04	0.001203	-6.6e-05	-5.7e-05
7D	-5.9e-04	7.79e-04	-1.8e-04	0.001558	1.07e-04	3.39e-05
8D	-5.3e-04	7.43e-04	-1.8e-04	0.001498	-8.2e-05	-7.1e-05
9D	-5.9e-05	-1.3e-05	8.69e-06	-3.5e-04	1.24e-05	-3.5e-06
10D	-8.3e-05	-1.8e-05	1.22e-05	-4.9e-04	1.73e-05	-4.9e-06
11D	0.004208	-3.5e-04	-2.5e-04	0.002767	9.74e-05	-1.6e-04
12D	0.004462	-3.7e-04	-2.7e-04	0.002937	1.00e-04	-1.9e-04
13D	0.010814	-8.9e-04	-6.5e-04	0.007914	2.44e-04	-3.9e-04
14D	0.011424	-9.4e-04	-6.9e-04	0.008300	2.51e-04	-4.8e-04
15D	-5.1e-04	7.30e-04	-1.7e-04	0.001293	9.51e-05	3.04e-05
16D	-4.7e-04	6.97e-04	-1.7e-04	-0.00124	-7.2e-05	-6.6e-05
17D	-0.00125	0.001653	-3.9e-04	0.003271	2.25e-04	7.16e-05
18D	-0.00113	0.001578	-3.8e-04	0.003144	-1.7e-04	-1.5e-04
19D	-5.7e-05	-1.2e-05	8.81e-06	-3.6e-04	1.19e-05	3.36e-06
20D	-2.1e-04	-4.6e-05	3.24e-05	-0.00133	4.37e-05	1.23e-05

16D	-4.7e-04	6.79e-04	-1.9e-04	0.003901	1.57e-04	-6.0e-05
17D	-0.00125	0.001645	-4.7e-04	0.009882	3.45e-04	6.66e-05
18D	-0.00113	0.001537	-4.4e-04	0.009701	3.83e-04	-1.4e-04
19D	-5.7e-05	1.39e-05	6.28e-06	4.01e-04	-2.4e-05	2.72e-06
20D	-2.1e-04	5.10e-05	2.30e-05	0.001472	-8.8e-05	1.00e-05

Nodo 400

CdC	Sx (cm)	Sy (cm)	Sz (cm)	Rx (°)	Ry (°)	Rz (°)
1S	5.08e-04	-7.4e-05	-6.5e-04	3.17e-05	-3.8e-04	3.11e-06
2S	1.59e-04	-4.7e-05	-3.5e-05	2.42e-05	-3.7e-05	-6.6e-06
1D	0.004144	-5.9e-04	1.98e-04	9.17e-05	-2.6e-04	-1.3e-04
2D	0.004376	-6.7e-04	2.24e-04	1.05e-04	-2.6e-04	-1.6e-04
3D	0.005156	-7.4e-04	2.47e-04	1.14e-04	-3.2e-04	-1.6e-04
4D	0.005445	-8.3e-04	2.79e-04	1.31e-04	-3.3e-04	-2.0e-04
5D	-4.7e-04	6.17e-04	-2.1e-04	-8.5e-05	1.43e-04	3.03e-05

6D	-4.3e-04	5.69e-04	-1.9e-04	-7.5e-05	-1.2e-04	-6.2e-05
7D	-5.9e-04	7.70e-04	-2.6e-04	-1.1e-04	1.78e-04	3.78e-05
8D	-5.3e-04	7.10e-04	-2.4e-04	-9.4e-05	-1.5e-04	-7.7e-05
9D	-5.9e-05	1.62e-05	-4.8e-06	3.91e-06	2.34e-05	2.49e-06
10D	-8.3e-05	2.27e-05	-6.8e-06	5.49e-06	3.28e-05	3.50e-06
11D	0.004205	-6.2e-04	2.06e-04	9.56e-05	-2.6e-04	-1.4e-04
12D	0.004458	-7.0e-04	2.35e-04	1.10e-04	-2.7e-04	-1.7e-04
13D	0.010804	-0.00155	5.18e-04	2.40e-04	-6.7e-04	-3.4e-04
14D	0.011414	-0.00174	5.87e-04	2.75e-04	-6.8e-04	-4.2e-04
15D	-5.1e-04	7.21e-04	-2.4e-04	-9.9e-05	1.56e-04	3.36e-05
16D	-4.7e-04	6.66e-04	-2.2e-04	-8.8e-05	-1.3e-04	-7.1e-05
17D	-0.00125	0.001635	-5.5e-04	-2.2e-04	3.75e-04	7.99e-05
18D	-0.00112	0.001508	-5.1e-04	-2.0e-04	-3.2e-04	-1.6e-04
19D	-5.7e-05	1.56e-05	-4.9e-06	3.71e-06	2.23e-05	2.51e-06
20D	-2.1e-04	5.72e-05	-1.8e-05	1.36e-05	8.19e-05	9.22e-06

3.2 REAZIONI VINCOLARI

Per ciascuna Condizione di Carico Elementare Statica, Condizione Sismica, Combinazione di Carico per Analisi Non Lineare vengono riportate le reazioni vincolari nei nodi vincolati

- Nodo = Numero del Nodo
CdC = Condizione di Carico (S = Statico, D = Dinamico, N = Non Lineare)
Rx = Forza in direzione X
Ry = Forza in direzione Y
Rz = Forza in direzione Z
Mx = Momento attorno all'asse X
My = Momento attorno all'asse Y
Mz = Momento attorno all'asse Z

Nodo 1

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	-0.00377	0.399827	2.623958	-0.05350	-7.5e-05	-2.2e-04
2S	-0.00138	0.034704	0.197208	-0.00462	-1.3e-04	-9.1e-05
1D	-0.06120	-0.11623	-1.73157	0.016432	-0.01006	7.11e-04
2D	-0.05974	-0.16307	-1.80281	0.023672	-0.00986	7.09e-04
3D	-0.07615	-0.14461	-2.15430	0.020450	-0.01252	8.82e-04
4D	-0.07432	-0.20306	-2.24313	0.029483	-0.01227	8.80e-04
5D	0.010222	-0.40528	-0.94416	0.061160	0.001415	-1.2e-04
6D	0.013334	-0.42464	-0.92483	0.064096	0.001838	-1.2e-04
7D	0.012754	-0.50607	-1.17889	0.076370	0.001765	-1.5e-04
8D	0.016643	-0.53023	-1.15475	0.080032	0.002294	-1.5e-04
9D	9.53e-04	0.008055	0.030425	-0.00126	1.48e-04	-6.4e-05
10D	0.001336	0.011297	0.042672	-0.00177	2.07e-04	-9.0e-05
11D	-0.06176	-0.11722	-1.74577	0.016811	-0.01015	6.21e-04
12D	-0.05990	-0.17047	-1.82408	0.024959	-0.00990	6.17e-04
13D	-0.15948	-0.30286	-4.51178	0.042881	-0.02622	0.001828
14D	-0.15557	-0.42663	-4.69935	0.061993	-0.02569	0.001822
15D	0.011600	-0.47487	-1.10349	0.071656	0.001584	-1.3e-04
16D	0.015368	-0.49679	-1.08118	0.074981	0.002107	-1.3e-04
17D	0.026999	-1.07464	-2.50274	0.162170	0.003732	-3.2e-04
18D	0.035284	-1.12577	-2.45157	0.169923	0.004860	-3.2e-04
19D	9.23e-04	0.007782	0.029210	-0.00122	1.43e-04	-6.1e-05
20D	0.003389	0.028582	0.107283	-0.00446	5.25e-04	-2.2e-04

Nodo 2

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	-0.09014	-0.02688	2.001048	0.014506	-0.01167	-2.2e-04
2S	-0.01064	-0.01293	0.163075	0.006895	-0.00155	-8.3e-05
1D	-0.33737	0.101317	0.939748	-0.05543	-0.06865	6.62e-04
2D	-0.32758	0.101116	0.877564	-0.05536	-0.06707	6.69e-04
3D	-0.41975	0.125708	1.168931	-0.06877	-0.08542	8.21e-04
4D	-0.40750	0.125453	1.091201	-0.06869	-0.08343	8.30e-04
5D	0.069820	-0.02168	-0.56320	0.011686	0.011039	1.92e-04
6D	0.086902	-0.02142	-0.63286	0.011644	0.014169	-1.9e-04
7D	0.087133	-0.02702	-0.70320	0.014555	0.013772	2.39e-04
8D	0.108474	-0.02668	-0.79014	0.014501	0.017684	-2.3e-04
9D	0.005739	-0.00885	0.031690	-0.00498	0.001084	5.74e-05
10D	0.008049	-0.01241	0.044452	-0.00698	0.001521	8.05e-05
11D	-0.34061	0.088895	0.938920	-0.04863	-0.06921	5.90e-04
12D	-0.32837	0.088485	0.862759	-0.04847	-0.06718	5.99e-04
13D	-0.87918	0.260502	2.446204	-0.14252	-0.17888	0.001704
14D	-0.85301	0.259928	2.280491	-0.14232	-0.17463	0.001723
15D	0.080002	-0.02336	-0.65767	0.012336	0.012481	2.11e-04
16D	0.100419	-0.02291	-0.73794	0.012218	0.016292	-2.9e-04
17D	0.184626	-0.05692	-1.49274	0.030605	0.029144	5.05e-04
18D	0.230033	-0.05618	-1.67707	0.030475	0.037483	-4.9e-04
19D	0.005524	-0.00830	0.029886	-0.00467	0.001044	5.39e-05
20D	0.020289	-0.03050	0.109770	-0.01714	0.003833	1.98e-04

Nodo 3

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	0.101800	0.028641	2.044447	-0.03558	0.009806	-5.6e-05
2S	-0.01779	0.013099	0.128212	-0.01614	-0.00346	-2.6e-05
1D	-1.14962	0.043124	-2.17145	-0.03011	-0.18803	-3.3e-04
2D	-1.11973	0.044361	-2.11711	-0.03047	-0.18336	3.30e-04
3D	-1.43030	0.053641	-2.70144	-0.03743	-0.23394	-4.1e-04
4D	-1.39290	0.055178	-2.63346	-0.03788	-0.22810	4.10e-04
5D	-0.19405	-0.09310	-0.49127	0.070912	-0.03029	-3.4e-04
6D	-0.21846	-0.09312	-0.48227	0.070881	-0.03451	3.36e-04
7D	-0.24212	-0.11572	-0.61318	0.088126	-0.03779	-4.2e-04
8D	-0.27267	-0.11575	-0.60205	0.088088	-0.04307	4.18e-04
9D	0.015316	0.026815	0.026270	-0.02172	0.002520	6.79e-05
10D	0.021481	0.037615	0.036843	-0.03046	0.003534	9.52e-05
11D	-1.15993	0.042861	-2.18481	-0.02914	-0.18974	-3.3e-04
12D	-1.12197	0.044004	-2.11590	-0.02948	-0.18379	3.30e-04
13D	-2.99567	0.112245	-5.65661	-0.07816	-0.48998	-8.5e-04
14D	-2.91566	0.115442	-5.51122	-0.07910	-0.47748	8.59e-04
15D	-0.22039	-0.08950	-0.56638	0.067440	-0.03429	-3.7e-04
16D	-0.25191	-0.08953	-0.55969	0.067421	-0.03973	3.71e-04
17D	-0.51260	-0.24151	-1.30004	0.183770	-0.07998	-8.9e-04
18D	-0.57810	-0.24157	-1.27723	0.183692	-0.09130	8.84e-04
19D	0.014688	0.025234	0.025459	-0.02036	0.002416	6.56e-05
20D	0.053946	0.092684	0.093504	-0.07477	0.008872	2.41e-04

Nodo 4

CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1S	0.037410	-0.00456	3.162055	-0.02235	1.69e-04	-3.6e-04
2S	-0.02887	-0.00247	0.248474	-0.00998	-0.00501	-1.7e-04
1D	-1.37771	-0.07541	-0.83595	-0.04148	-0.21790	-5.9e-04
2D	-1.34168	-0.07450	-0.79159	-0.04045	-0.21243	-6.1e-04
3D	-1.71408	-0.09366	-1.03978	-0.05151	-0.27110	-7.3e-04
4D	-1.66900	-0.09254	-0.98435	-0.05023	-0.26426	-7.6e-04
5D	-0.22825	-0.10515	-0.54955	0.073544	-0.03468	4.70e-04
6D	-0.26037	-0.10498	-0.50871	0.073439	-0.03995	-4.7e-04
7D	-0.28478	-0.13071	-0.68618	0.091392	-0.04326	5.86e-04
8D	-0.32499	-0.13049	-0.63522	0.091262	-0.04987	-5.9e-04
9D	0.018632	0.032762	0.021842	-0.02339	0.002958	-8.1e-05
10D	0.026132	0.045957	0.030636	-0.03281	0.004149	-1.1e-04
11D	-1.39032	-0.07000	-0.83383	-0.03807	-0.21992	-5.6e-04
12D	-1.34458	-0.06954	-0.78064	-0.03715	-0.21295	-5.8e-04
13D	-3.59007	-0.19488	-2.17557	-0.10710	-0.56782	-0.00152
14D	-3.49364	-0.19263	-2.05766	-0.10445	-0.55318	-0.00158
15D	-0.25888	-0.10142	-0.64255	0.069774	-0.03922	5.27e-04
16D	-0.30012	-0.10127	-0.59620	0.069675	-0.04599	-5.3e-04
17D	-0.60283	-0.27285	-1.45679	0.190543	-0.09156	0.001239
18D	-0.68899	-0.27240	-1.34892	0.190272	-0.10571	-0.00125
19D	0.017857	0.030815	0.020865	-0.02192	0.002835	-8.1e-05
20D	0.065586	0.113184	0.076634	-0.08051	0.010411	-3.0e-04

Nodo 5						
CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-0.13529	0.414394	4.280079	-0.05630	-0.01543	2.00e-04
2S	-0.02088	0.057887	0.438180	-0.00830	-0.00245	1.07e-04
1D	-0.42712	0.211568	3.494509	-0.03239	-0.05280	9.87e-04
2D	-0.41824	0.260977	3.568067	-0.03970	-0.05171	9.81e-04
3D	-0.53142	0.263631	4.348437	-0.04035	-0.06569	0.001226
4D	-0.52031	0.325215	4.439941	-0.04947	-0.06432	0.001218
5D	-0.05566	-0.43429	-1.07792	0.064691	-0.00690	-6.8e-04
6D	-0.06968	-0.40416	-1.04108	0.060211	-0.00861	6.83e-04
7D	-0.06941	-0.54228	-1.34558	0.080776	-0.00861	-8.5e-04
8D	-0.08696	-0.50467	-1.29964	0.075184	-0.01075	8.52e-04
9D	0.006141	0.011824	-0.07201	-0.00176	7.51e-04	-1.6e-04
10D	0.008613	0.016585	-0.10100	-0.00247	0.001053	-2.2e-04
11D	-0.43167	0.228071	3.552378	-0.03482	-0.05337	9.10e-04
12D	-0.42010	0.281676	3.624960	-0.04276	-0.05194	9.06e-04
13D	-1.11318	0.555429	9.113473	-0.08500	-0.13761	0.002549
14D	-1.08935	0.685294	9.304990	-0.10421	-0.13468	0.002533
15D	-0.06179	-0.50804	-1.24822	0.075673	-0.00766	-7.4e-04
16D	-0.07969	-0.47346	-1.20744	0.070531	-0.00985	7.45e-04
17D	-0.14663	-1.15133	-2.85404	0.171498	-0.01818	-0.00179
18D	-0.18422	-0.10763	-2.75701	0.159647	-0.02276	0.001796
19D	0.005873	0.011226	-0.06833	-0.00167	7.18e-04	-1.5e-04
20D	0.021569	0.041230	-0.25097	-0.00615	0.002637	-5.6e-04

Nodo 6						
CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	0.016694	0.376999	3.261405	-0.05261	0.018335	-1.4e-04
2S	0.007531	0.031641	0.237260	-0.00449	0.008473	-7.0e-05
1D	-0.14062	-0.09746	-1.36225	0.015040	-0.09341	0.001448
2D	-0.14328	-0.15658	-1.40915	0.023964	-0.09416	-0.00150
3D	-0.17457	-0.12136	-1.69499	0.018726	-0.11590	0.001799
4D	-0.17789	-0.19508	-1.75346	0.029856	-0.11683	-0.00186
5D	-0.02297	-0.47375	-0.61647	0.072228	0.012662	-2.6e-04
6D	0.024284	-0.49849	-0.59524	0.075968	0.013200	-2.7e-04
7D	-0.02855	-0.59157	-0.76970	0.090190	0.015736	-3.2e-04
8D	0.030189	-0.62244	-0.74319	0.094857	0.016404	-3.3e-04
9D	-0.01331	0.009957	0.029501	-0.00149	-0.00846	1.40e-04
10D	-0.01867	0.013965	0.041378	-0.00209	-0.01187	1.96e-04
11D	-0.12706	-0.10206	-1.37976	0.015706	-0.08184	0.001347
12D	-0.13023	-0.16757	-1.43081	0.025611	-0.08268	-0.00141
13D	-0.36251	-0.25500	-3.55124	0.039338	-0.24015	0.003744
14D	-0.36955	-0.41076	-3.67463	0.062857	-0.24213	-0.00387
15D	-0.02223	-0.55504	-0.71927	0.084621	0.012082	2.49e-04
16D	0.023533	-0.58311	-0.69488	0.088864	0.012561	-2.6e-04
17D	-0.05961	-1.25618	-1.63377	0.191517	0.032819	-6.6e-04
18D	0.063037	-1.32153	-1.57759	0.201396	0.034206	-7.0e-04
19D	-0.01258	0.009596	0.028140	-0.00144	-0.00794	1.33e-04
20D	-0.04619	0.035243	0.103352	-0.00528	-0.02915	4.87e-04

Nodo 7						
CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-0.00324	0.389566	4.156170	-0.05592	-0.00928	-5.1e-05
2S	-0.00126	0.060457	0.380457	-0.00902	-0.00430	-7.6e-06
1D	-0.12612	0.197245	2.484076	-0.03140	-0.08132	-0.00124
2D	-0.12352	0.254540	2.525895	-0.04015	-0.08026	-0.00124
3D	-0.15657	0.245894	3.091104	-0.03914	-0.10089	-0.00154
4D	-0.15332	0.317293	3.143082	-0.05004	-0.09957	-0.00154
5D	-0.05543	-0.50467	-0.62557	0.077157	-0.02866	-5.5e-04
6D	-0.05468	-0.46968	-0.61239	0.071808	-0.02826	-5.4e-04
7D	-0.06889	-0.63015	-0.78082	0.096341	-0.03560	-6.8e-04
8D	-0.06795	-0.58648	-0.76441	0.089666	-0.03510	-6.7e-04
9D	0.022290	0.013778	-0.05378	-0.00211	0.012197	1.87e-04
10D	0.031267	0.019326	-0.07543	-0.00296	0.017110	2.62e-04
11D	-0.11404	0.216500	2.525661	-0.03433	-0.07102	-0.00122
12D	-0.11129	0.278216	2.565221	-0.04376	-0.07006	-0.00121
13D	-0.32515	0.518929	6.478448	-0.08257	-0.20900	-0.00323
14D	-0.31832	0.669389	6.586888	-0.10554	-0.20627	-0.00321
15D	-0.05274	-0.59039	-0.72136	0.090258	-0.02686	-5.4e-04
16D	-0.05208	-0.55025	-0.70798	0.084121	-0.02647	-5.2e-04
17D	-0.14364	-1.33791	-1.65550	0.204546	-0.07416	-0.00143
18D	-0.14170	-1.24537	-1.62111	0.190399	-0.07311	-0.00140
19D	0.021020	0.013073	-0.05101	-0.00200	0.011441	1.76e-04
20D	0.077204	0.048015	-0.18736	-0.00735	0.042022	6.47e-04

Nodo 8						
CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	0.091263	0.134324	4.502809	-0.01875	0.098683	-4.7e-04
2S	0.042427	0.010204	0.331119	-0.00144	0.045855	-2.2e-04
1D	-0.52738	-0.16948	-0.97019	0.025478	-0.37747	0.002540
2D	-0.53074	-0.24195	-1.00707	0.036241	-0.37987	0.002613
3D	-0.65412	-0.21093	-1.20745	0.031710	-0.46815	0.003156
4D	-0.65828	-0.30133	-1.25343	0.045136	-0.47114	0.003247
5D	0.047229	-0.59107	-0.26798	0.088411	0.027865	-4.0e-04
6D	0.051178	-0.62205	-0.25431	0.092990	0.030089	-4.0e-04
7D	0.058670	-0.73806	-0.33447	0.110398	0.034610	-5.0e-04
8D	0.063576	-0.77672	-0.31742	0.116111	0.037373	-5.0e-04
9D	0.048398	0.010286	0.033307	-0.00154	0.032284	2.64e-04
10D	0.067892	0.014424	0.046719	-0.00215	0.045288	3.70e-04

11D	-0.45406	-0.17385	-0.99261	0.026116	-0.32373	-0.00238
12D	-0.45679	-0.25512	-1.03285	0.038193	-0.32585	0.002464
13D	-1.35377	-0.44241	-2.53201	0.066504	-0.96864	0.006572
14D	-1.36234	-0.63361	-2.62906	0.094904	-0.97483	0.006764
15D	0.044057	-0.69251	-0.30882	0.103585	0.025797	-4.1e-04
16D	0.047736	-0.72770	-0.29313	0.108783	0.027867	-4.1e-04
17D	0.122154	-1.56725	-0.70909	0.234429	0.072017	-0.00104
18D	0.132367	-1.64911	-0.67293	0.246524	0.077769	-0.00105
19D	0.045396	0.010120	0.031553	-0.00151	0.030239	2.59e-04
20D	0.166741	0.037164	0.115890	-0.00555	0.111070	9.51e-04

Nodo 9						
CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-0.08096	0.214588	4.871815	-0.03142	-0.09141	5.44e-04
2S	-0.03783	0.053243	0.404059	-0.00793	-0.04260	2.50e-04
1D	-0.46348	0.263435	1.166899	-0.04108	-0.33265	-0.00289
2D	-0.45886	0.333219	1.186383	-0.05150	-0.32981	0.002863
3D	-0.57489	0.328342	1.452361	-0.05119	-0.41255	-0.00360
4D	-0.56914	0.415313	1.476561	-0.06419	-0.40903	0.003560
5D	0.063404	-0.64229	-0.24917	0.095983	0.038189	-9.5e-04
6D	0.060284	-0.59795	-0.24874	0.089356	0.036683	-9.4e-04
7D	0.078769	-0.80199	-0.31094	0.119847	0.047437	-0.00118
8D	0.074888	-0.74665	-0.31044	0.111577	0.045565	-0.00117
9D	-0.04457	0.016072	0.042844	-0.00241	-0.03012	-4.7e-04
10D	-0.06252	0.022544	0.060099	-0.00337	-0.04225	-6.6e-04
11D	-0.39987	0.286889	1.197413	-0.04456	-0.28497	-0.00287
12D	-0.39553	0.362305	1.215222	-0.05585	-0.28249	0.002841
13D	-1.18992	0.692408	3.046382	-0.10791	-0.85352	-0.00753
14D	-1.17796	0.875741	3.096731	-0.13531	-0.84623	0.007448
15D	0.059355	-0.75137	-0.28477	0.112280	0.035491	-9.4e-04
16D	0.056246	-0.70046	-0.28572	0.104672	0.034027	-9.2e-04
17D	0.164043	-1.70276	-0.65867	0.254454	0.098737	-0.00248
18D	0.155922	-1.58545	-0.65795	0.236926	0.094827	-0.00245
19D	-0.04185	0.015297	0.040419	-0.00229	-0.02822	-4.5e-04
20D	-0.15371	0.056184	0.148457	-0.00841	-0.10366	-0.00166

Nodo 10						
CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	0.100491	-0.09257	4.724907	0.013688	0.105256	3.84e-04
2S	0.046656	-0.01583	0.338038	0.002331	0.048887	1.78e-04
1D	-0.56409	-0.29731	-1.00351	0.043579	-0.40172	0.002305
2D	-0.57084	-0.37021	-1.03041	0.054407	-0.40621	0.002214
3D	-0.69966	-0.36992	-1.24893	0.054222	-0.49823	0.002865
4D	-0.70804	-0.46087	-1.28244	0.067731	-0.50381	0.002751
5D	0.039966	-0.60024	0.178698	0.089734	0.022703	3.65e-04
6D	0.044446	-0.62907	0.179343	0.094009	0.025156	3.83e-04
7D	0.049668	-0.74951	0.222871	0.112050	0.028203	4.54e-04
8D	0.055234	-0.78549	0.223697	0.117384	0.031251	4.76e-04
9D	0.048776	0.009778	0.029511	-0.00146	0.032843	-2.3e-04
10D	0.068422	0.013710	0.041393	-0.00205	0.046072	-3.2e-04
11D	-0.48582	-0.30076	-1.02709	0.044088	-0.34464	0.002201
12D	-0.49186	-0.38323	-1.05544	0.056337	-0.34860	0.002092
13D	-1.44804	-0.77495	-2.61907	0.113589	-1.03090	0.005975
14D	-1.46544	-0.96747	-2.68960	0.142186	-1.04246	0.005733
15D	0.038071	-0.70324	0.199823	0.105134	0.021191	3.70e-04
16D	0.042321	-0.73595	0.201368	0.109982	0.023530	3.90e-04
17D	0.103570	-1.59157	0.471140	0.237937	0.058718	9.51e-04
18D	0.115176	-1.66773	0.473055	0.249228	0.065076	9.99e-04
19D	0.045769	0.009761	0.028113	-0.00146	0.030766	-2.3e-04
20D	0.168108	0.035847	0.103253	-0.00535	0.113002	-8.3e-04

1D	-0.18277	-0.30109	-1.49041	0.044549	-0.13053	-0.00162
2D	-0.18434	-0.36364	-1.51352	0.053951	-0.13211	-0.00168
3D	-0.22680	-0.37460	-1.85463	0.055427	-0.16192	-0.00201
4D	-0.22875	-0.45264	-1.88336	0.067157	-0.16388	-0.00209
5D	0.023591	-0.51941	0.523005	0.078508	0.011221	3.24e-04
6D	-0.02637	-0.54271	0.529381	0.082012	-0.01254	3.46e-04
7D	0.029360	-0.64858	0.652884	0.098032	0.013953	4.04e-04
8D	-0.03282	-0.67765	0.660860	0.102403	-0.01560	4.31e-04
9D	0.014273	-0.00826	0.025315	0.001249	0.010031	1.32e-04
10D	0.020021	-0.01158	0.035500	0.001751	0.014072	1.85e-04
11D	-0.16197	-0.30400	-1.51580	0.044984	-0.11337	-0.00148
12D	-0.16298	-0.37480	-1.53792	0.055627	-0.11465	-0.00155
13D	-0.47033	-0.78463	-3.88710	0.116096	-0.33532	-0.00418
14D	-0.47428	-0.94983	-3.94710	0.140927	-0.33935	-0.00434
15D	0.024101	-0.60851	0.606154	0.091976	0.010974	3.46e-04
16D	-0.02707	-0.63489	0.614133	0.095943	0.012402	3.67e-04
17D	0.061570	-1.37725	1.384903	0.208168	0.029156	8.51e-04
18D	-0.06885	-1.43877	1.401955	0.217420	-0.03263	9.06e-04
19D	0.013455	-0.00825	0.024721	0.001247	0.009403	1.25e-04
20D	0.049419	-0.03030	0.090788	0.004580	0.034536	4.61e-04

Nodo 13

CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-0.05524	-0.22281	4.049993	0.030343	-0.05836	-2.0e-04
2S	-0.02547	-5.5e-04	0.263302	-2.1e-04	-0.02686	-9.3e-05
1D	-0.30711	0.369799	-0.35556	-0.05620	-0.22122	-0.00171
2D	-0.30694	0.425656	-0.40746	-0.06461	-0.22048	-0.00173
3D	-0.38101	0.460446	-0.44243	-0.06998	-0.27440	-0.00213
4D	-0.38081	0.530095	-0.50720	-0.08046	-0.27349	-0.00214
5D	0.051662	-0.55771	0.466782	0.083863	0.032770	3.40e-04
6D	0.050911	-0.52078	0.428776	0.078304	0.032422	3.59e-04
7D	0.064191	-0.69637	0.582831	0.104714	0.040711	4.23e-04
8D	0.063257	-0.65028	0.535399	0.097775	0.040277	4.47e-04
9D	-0.02646	-0.01147	0.018944	0.001735	-0.01870	-2.0e-04
10D	-0.03711	-0.01608	0.026566	0.002433	-0.02624	-2.8e-04
11D	-0.26833	0.386215	-0.36112	-0.05868	-0.19108	-0.00158
12D	-0.26866	0.447790	-0.42041	-0.06795	-0.19043	-0.00160
13D	-0.78931	0.967271	-0.92712	-0.14700	-0.56802	-0.00442
14D	-0.78899	1.114367	-1.06436	-0.16914	-0.56613	-0.00446
15D	0.048751	-0.65212	0.545676	0.098061	0.030674	3.39e-04
16D	0.048002	-0.60974	0.502114	0.091680	0.030281	3.57e-04
17D	0.133766	-1.47843	1.237356	0.222314	0.084784	8.85e-04
18D	0.131808	-1.38075	1.136846	0.207608	0.083866	9.34e-04
19D	-0.02489	-0.01108	0.018448	0.001675	-0.01753	-2.0e-04
20D	-0.09143	-0.04068	0.067753	0.006150	-0.06438	-7.4e-04

Nodo 14

CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	0.119582	-0.36797	4.476557	0.049589	0.010005	1.93e-04
2S	0.041673	-0.02720	0.372071	0.004086	0.003581	8.58e-05
1D	-0.92978	-0.20415	-2.00946	0.029849	-0.11287	-7.6e-04
2D	-0.98429	-0.25523	-2.01332	0.037311	-0.11945	8.36e-04
3D	-1.15729	-0.25400	-2.50060	0.037137	-0.14048	-9.5e-04
4D	-1.22524	-0.31773	-2.50525	0.046448	-0.14868	0.001042
5D	-0.21405	-0.44740	0.978709	0.065440	-0.02566	-7.0e-04
6D	-0.21216	-0.46696	1.003478	0.068285	-0.02548	-7.0e-04
7D	-0.26715	-0.55866	1.221912	0.081714	-0.03203	-8.8e-04
8D	-0.26481	-0.58306	1.252846	0.085264	-0.03181	-8.8e-04
9D	0.010854	-0.00670	0.032370	9.93e-04	0.001315	5.56e-05
10D	0.015213	-0.00940	0.045389	0.001393	0.001844	7.80e-05
11D	-0.95634	-0.20611	-2.04638	0.030140	-0.11600	-8.0e-04
12D	-1.01527	-0.26397	-2.04431	0.038593	-0.12311	8.85e-04
13D	-2.42796	-0.53202	-5.24158	0.077787	-0.29471	-0.00199
14D	-2.57122	-0.66693	-5.25011	0.097497	-0.31200	0.002191
15D	-0.24617	-0.52414	1.139921	0.076665	-0.02951	-7.6e-04
16D	-0.24459	-0.54625	1.169114	0.079881	-0.02937	-7.6e-04
17D	-0.56627	-1.18629	2.593193	0.173517	-0.06789	-0.00185
18D	-0.56144	-1.23794	2.658927	0.181029	-0.06743	-0.00185
19D	0.011285	-0.00669	0.032028	9.90e-04	0.001362	5.31e-05
20D	0.041439	-0.02458	0.117623	0.003637	0.005002	1.95e-04

Nodo 15

CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	0.005380	-0.31678	4.217361	0.048043	-0.00455	-2.5e-04
2S	0.052156	-0.15251	0.185175	0.022677	0.003534	-1.1e-04
1D	-0.95446	-0.31092	3.152292	0.043927	-0.11536	7.70e-04
2D	-1.01286	-0.32832	3.342038	0.046339	-0.12230	-8.0e-04
3D	-1.18804	-0.38666	3.922847	0.054628	-0.14358	9.59e-04
4D	-1.26084	-0.40837	4.159395	0.057636	-0.15224	-0.00100
5D	-0.22922	-0.23132	-0.41244	0.035979	-0.02720	0.001394
6D	-0.22814	-0.23195	0.407658	0.036095	-0.02713	0.001396
7D	-0.28610	-0.28867	-0.51409	0.044903	-0.03395	0.001735
8D	-0.28476	-0.28945	0.508349	0.045046	-0.03387	0.001737
9D	0.011180	-0.02058	-0.04615	0.003043	0.001330	-7.9e-05
10D	0.015671	-0.02885	-0.06471	0.004266	0.001864	-1.1e-04

11D	-0.98261	-0.30822	3.213570	0.043558	-0.11856	8.16e-04
12D	-1.04586	-0.32763	3.420781	0.046245	-0.12608	-8.5e-04
13D	-2.49266	-0.80850	8.223541	0.114227	-0.30121	0.002018
14D	-2.64618	-0.85439	8.722745	0.120584	-0.31946	-0.00211
15D	-0.26393	-0.26501	-0.44962	0.041330	-0.03131	0.001419
16D	-0.26327	-0.26539	0.452538	0.041415	-0.03130	0.001421
17D	-0.60649	-0.61161	-1.08437	0.095161	-0.07196	0.003638
18D	-0.60378	-0.61319	1.073976	0.095454	-0.07181	0.003642
19D	0.011594	0.020580	-0.04636	-0.00305	0.001374	-7.5e-05
20D	0.042575	0.075577	-0.17025	-0.01120	0.005045	-2.7e-04

Nodo 16

CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-0.02027	-0.21354	3.497589	0.030655	-0.02470	-2.0e-04
2S	-0.00914	-0.00440	0.190038	4.46e-04	-0.01127	-1.0e-04
1D	-0.12461	0.332883	-0.66223	-0.05131	-0.09214	-7.6e-04
2D	-0.12242	0.380173	-0.74756	-0.05855	-0.09161	-7.0e-04
3D	-0.15484	0.414447	-0.82428	-0.06388	-0.11437	-9.4e-04
4D	-0.15210	0.473414	-0.93072	-0.07291	-0.11371	-9.3e-04
5D	0.075412	-0.47163	0.756131	0.072148	0.034435	-9.2e-04
6D	0.076189	-0.44091	0.696247	0.067438	0.034655	-9.2e-04
7D	0.093776	-0.58888	0.944125	0.090086	0.042809	-0.00115
8D	0.094748	-0.55055	0.869383	0.084207	0.043083	-0.00115
9D	-0.01476	-0.00973	0.017178	0.001494	-0.00995	-6.6e-05
10D	-0.02070	-0.01364	0.024085	0.002096	-0.01395	-9.3e-05
11D	-0.11808	0.346371	-0.68181	-0.05339	-0.08260	-7.0e-04
12D	0.115397	0.398594	-0.77725	-0.06139	-0.08199	-6.9e-04
13D	-0.32267	0.870351	-1.72941	-0.13416	-0.23736	-0.00196
14D	-0.31684	0.994911	-1.95450	-0.15323	-0.23597	-0.00194
15D	0.073863	-0.55131	0.884202	0.084340	0.033304	-9.2e-04
16D	0.074855	-0.51607	0.815365	0.078936	0.033550	-9.2e-04
17D	0.196012	-1.25019	2.004453	0.191252	0.089389	-0.00240
18D	0.198091	-1.16895	1.846028	0.178794	0.089967	-0.00240
19D	-0.01410	-0.00941	0.017245	0.001445	-0.00937	6.59e-05
20D	-0.05179	-0.03455	0.063328	0.005307	-0.03440	2.42e-04

Nodo 17

CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	0.118662	-0.12488	4.854816	0.015380	0.010488	1.56e-04
2S	0.006229	-0.03589	0.693576	0.004666	8.57e-04	8.32e-05
1D	-0.19204	-0.09567	2.141872	0.011447	-0.03461	-0.00103
2D	-0.19779	-0.10170	2.293159	0.012164	-0.03590	-0.00104
3D	-0.23886	-0.11898	2.664387	0.014236	-0.04305	-0.00128
4D	-0.24602	-0.12651	2.853090	0.015129	-0.04465	-0.00130
5D	0.075372	-0.05181	0.825547	0.006757	0.011469	-0.00318
6D	0.076993	-0.05214	0.844862	0.006798	0.011531	-0.00318
7D	0.093861	-0.06467	1.030718	0.008433	0.014285	-0.00395
8D	0.095887	-0.06507	1.054842	0.008484	0.014361	-0.00396
9D	-0.01573	-0.00451	0.073350	5.87e-04	-0.00235	1.43e-04
10D	-0.02206	-0.00633	0.102880	8.23e-04	-0.00330	2.00e-04
11D	-0.19150	-0.09489	2.146073	0.011335	-0.03448	-0.00101
12D	-0.19764	-0.10166	2.315255	0.012141	-0.03588	-0.00103
13D	-0.49976	-0.24882	5.577017	0.029766	-0.09006	-0.00267
14D	-0.51485	-0.26474	5.976055	0.031657	-0.09344	-0.00271
15D	0.079168	-0.05954	0.962576	0.007771	0.012122	-0.00316
16D	0.081118	-0.05985	0.985379	0.007810	0.012180	-0.00317
17D	0.197284	-0.13705	2.187654	0.017873	0.030041	-0.00827
18D	0.201596	-0.13790	2.238926	0.017980	0.030201	-0.00829
19D	-0.01506	0.004457	0.070106	-5.8e-04	-0.00225	1.34e-04
20D	-0.05533	0.016368	0.257484	-0.00213	-0.00827	4.93e-04

Nodo 18

CdC	Rx (kN)	Rv (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1S	-0.11794	-0.31125	3.464578	0.041333	-0.01414	-2.5e

Per ciascuna Condizione di Carico Elementare Statica, Condizione Sismica, Combinazione di Carico per Analisi Non Lineare, vengono riportate le risultanti delle reazioni vincolari con i momenti calcolati rispetto all'origine:

CdC	R _x (kN)	R _y (kN)	R _z (kN)	M _x (kNm)	M _y (kNm)	M _z (kNm)
1S	6.676e-09	-1.86e-08	69.344956	127.45374	-91.82734	-2.48e-08
2S	1.431e-09	6.616e-09	5.3872500	9.5988713	-7.095281	6.571e-10
1D	-8.472047	0.5270906	-0.128178	-1.290419	-16.09224	16.612860
2D	-8.505559	0.5303685	-0.126184	-1.266736	-16.12831	18.049507
3D	-10.53078	0.6584843	-0.159657	-1.611808	-20.01844	20.661592
4D	-10.57211	0.6621918	-0.157349	-1.581864	-20.06224	22.452394
5D	-0.535957	-7.226023	-0.564356	17.770463	-0.601191	-9.518586
6D	-0.581202	-7.124340	0.1805587	20.122653	-1.110916	-8.764906
7D	-0.670266	-9.021439	-0.703215	22.189354	-0.754451	-11.87883
8D	-0.727081	-8.894465	0.2252438	25.121443	-1.388979	-10.93866
9D	0.0350765	0.0744340	0.3008445	0.7133356	-0.153797	0.2138695
10D	0.0491737	0.1044230	0.4219472	1.0004649	-0.215676	0.3000958
11D	-8.170539	0.6274515	-0.137181	-1.530512	-16.11782	16.444894
12D	-7.958468	0.6167942	-0.140787	-1.486529	-16.15898	17.184846
13D	-21.97777	1.4007440	-0.335895	-3.426503	-41.90517	43.214978
14D	-22.06134	1.4055282	-0.332424	-3.359874	-41.98826	46.992670
15D	-0.666223	-8.407523	-0.606787	20.808753	-0.840920	-10.89745
16D	-0.731032	-8.288248	0.2034458	23.378970	-1.341707	-10.04992
17D	-1.431478	-19.14400	-1.481376	47.115436	-1.631963	-25.16925
18D	-1.554667	-18.87434	0.4765619	53.301260	-2.963744	-23.18036
19D	0.0356518	0.1190886	0.2887483	0.6890371	-0.150655	0.2438207
20D	0.1309205	0.4373886	1.0605035	2.5306510	-0.553285	0.8956004

4. INVILUPPO RISULTATI DELLE CONDIZIONI ELEMENTARI

I risultati contengono sia inviluppi sia combinazioni dei risultati delle condizioni di carico elementari.

Una condizione di inviluppo può essere di tipo “automatico” e in questo caso è un vero e proprio inviluppo dei valori minimi o massimi che ogni singola grandezza può assumere per effetto della combinazione lineare dei valori di ogni condizione di carico elementare, moltiplicati per il coefficiente che tra i due possibili risulta più tassativo.

Tutte le condizioni di carico in caso di inviluppo sono trattate tramite due moltiplicatori uno minimo e uno massimo per dare la possibilità di considerare azioni (tipo azione del vento o sisma) che possono agire in due direzioni opposte.

I risultati contengono sia inviluppi sia combinazioni assegnate dei risultati delle condizioni di carico elementari.

La combinazione lineare automatica può essere svolta anche su risultati di inviluppi, detti in questo caso inviluppi base, anziché di condizioni di carico elementare. Il risultato è un inviluppo di inviluppi.

Le condizioni di carico possono essere distinte nelle seguenti tipologie:

- **Permanente:** la CdC elementare è sempre presente nell'inviluppo e viene scelto il coefficiente più tassativo.
- **Variabile:** le sollecitazioni della CdC elementare sono sommate solo se la componente considerata (Forza, momento flettente, spostamento in una direzione, ecc.) è a sfavore, diminuendo il valore finale se si cerca il minimo, aumentando il valore finale se si cerca il massimo, scegliendo sempre il coefficiente più tassativo.

- **Variabile non Contemporanea:** analoga alla Variabile ma vengono sommate le sollecitazioni della sola e unica CdC più gravosa, per la componente in esame, fra tutte quelle che appartengono allo stesso gruppo (colonna grp), escludendo le altre CdC dello stesso gruppo.
- **Permanente non Contemporanea:** analoga alle var. non contemporanea con la differenza che le sollecitazioni di almeno una CdC dello stesso gruppo (la più gravosa o la meno favorevole) vengono sommate anche se con effetto favorevole; in questo caso viene scelta la meno favorevole per la componente in esame.
- **Variabile Contemporanea:** le sollecitazioni della CdC elementare sono sommate insieme a tutte quelle Variabili Contemporanee che appartengono allo stesso gruppo (colonna grp) solo se applicandole tutte assieme vanno a sfavore diminuendo il valore finale se si cerca il minimo, aumentando il valore finale se si cerca il massimo.
- **Non Considerata:** le sollecitazioni della CdC elementare non contribuiscono all'inviluppo.

4.1 INVILUPPO REAZIONI VINCOLARI

Per ciascuna Condizione di Carico di Inviluppo vengono riportate le reazioni vincolari inviluppate nei nodi vincolati

N	= Numero del Nodo
CdC	= Condizione di Carico di Inviluppo
R _x	= Forza in direzione X
R _y	= Forza in direzione Y
R _z	= Forza in direzione Z
M _x	= Momento attorno all'asse X
M _y	= Momento attorno all'asse Y
M _z	= Momento attorno all'asse Z

Sono di seguito elencati i dati dei seguenti inviluppi:

- ~SL08 SLE caratt.
- ~SL08 STR SLV

4.1.1 Descrizione inviluppo “~SL08 SLE caratt.”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 SLE caratt._1	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell'inviluppo “~SL08 SLE caratt.”

Descrizione inviluppo “~SL08 SLE caratt._1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1

4.1.2 Descrizione inviluppo “~SL08 STR SLV”

Agisce sul gruppo di selezione “~Wiz.SL08:Tutto - Sism.V”.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 STR SLV _1	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLU Sism. Orizz._1	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLU Sism. Orizz._2	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell'involuppo “~SL08 STR SLV”

Descrizione involuppo “~SL08 STR SLV 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Variabile		0	1.5

Descrizione involuppo “~SL08 SLU Sism. Orizz. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-1	1
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-1	1
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-0.3	0.3

Descrizione involuppo “~SL08 SLU Sism. Orizz. 2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-1	1

4.1.3 Descrizione sollecitazioni di involuppo

Sollecitazioni derivate dall'Involuppo ~SL08 SLE caratt.

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
1	Rx Min	-0.00515	0.434531	2.821165	-0.05811	-2.0e-04	-3.1e-04
1	Rx Max	-0.00377	0.399827	2.623958	-0.05350	-7.5e-05	-2.2e-04
1	Ry Min	-0.00377	0.399827	2.623958	-0.05350	-7.5e-05	-2.2e-04
1	Ry Max	-0.00515	0.434531	2.821165	-0.05811	-2.0e-04	-3.1e-04
1	Rz Min	-0.00377	0.399827	2.623958	-0.05350	-7.5e-05	-2.2e-04
1	Rz Max	-0.00515	0.434531	2.821165	-0.05811	-2.0e-04	-3.1e-04
1	Mx Min	-0.00515	0.434531	2.821165	-0.05811	-2.0e-04	-3.1e-04
1	Mx Max	-0.00377	0.399827	2.623958	-0.05350	-7.5e-05	-2.2e-04
1	My Min	-0.00515	0.434531	2.821165	-0.05811	-2.0e-04	-3.1e-04
1	My Max	-0.00377	0.399827	2.623958	-0.05350	-7.5e-05	-2.2e-04
1	Mz Min	-0.00515	0.434531	2.821165	-0.05811	-2.0e-04	-3.1e-04
1	Mz Max	-0.00377	0.399827	2.623958	-0.05350	-7.5e-05	-2.2e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
2	Rx Min	-0.10077	-0.03982	2.164123	0.021402	-0.01322	-3.0e-04
2	Rx Max	-0.09014	-0.02688	2.001048	0.014506	-0.01167	-2.2e-04
2	Ry Min	-0.10077	-0.03982	2.164123	0.021402	-0.01322	-3.0e-04
2	Ry Max	-0.09014	-0.02688	2.001048	0.014506	-0.01167	-2.2e-04
2	Rz Min	-0.09014	-0.02688	2.001048	0.014506	-0.01167	-2.2e-04
2	Rz Max	-0.10077	-0.03982	2.164123	0.021402	-0.01322	-3.0e-04
2	Mx Min	-0.09014	-0.02688	2.001048	0.014506	-0.01167	-2.2e-04
2	Mx Max	-0.10077	-0.03982	2.164123	0.021402	-0.01322	-3.0e-04
2	My Min	-0.10077	-0.03982	2.164123	0.021402	-0.01322	-3.0e-04
2	My Max	-0.09014	-0.02688	2.001048	0.014506	-0.01167	-2.2e-04
2	Mz Min	-0.10077	-0.03982	2.164123	0.021402	-0.01322	-3.0e-04
2	Mz Max	-0.09014	-0.02688	2.001048	0.014506	-0.01167	-2.2e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	Mv (kNm)	Mz (kNm)
3	Rx Min	0.084008	0.041740	2.172659	-0.05172	0.006347	-8.1e-05
3	Rx Max	0.101800	0.028641	2.044447	-0.03558	0.009806	-5.6e-05
3	Ry Min	0.101800	0.028641	2.044447	-0.03558	0.009806	-5.6e-05
3	Ry Max	0.084008	0.041740	2.172659	-0.05172	0.006347	-8.1e-05
3	Rz Min	0.101800	0.028641	2.044447	-0.03558	0.009806	-5.6e-05
3	Rz Max	0.084008	0.041740	2.172659	-0.05172	0.006347	-8.1e-05
3	Mx Min	0.084008	0.041740	2.172659	-0.05172	0.006347	-8.1e-05
3	Mx Max	0.101800	0.028641	2.044447	-0.03558	0.009806	-5.6e-05
3	My Min	0.084008	0.041740	2.172659	-0.05172	0.006347	-8.1e-05

3	My Max	0.101800	0.028641	2.044447	-0.03558	0.009806	-5.6e-05
3	Mz Min	0.084008	0.041740	2.172659	-0.05172	0.006347	-8.1e-05
3	Mz Max	0.101800	0.028641	2.044447	-0.03558	0.009806	-5.6e-05

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
4	Rx Min	0.008537	-0.00703	3.410529	-0.03233	-0.00484	-5.2e-04
4	Rx Max	0.037410	-0.00456	3.162055	-0.02235	1.69e-04	-3.6e-04
4	Ry Min	0.008537	-0.00703	3.410529	-0.03233	-0.00484	-5.2e-04
4	Ry Max	0.037410	-0.00456	3.162055	-0.02235	1.69e-04	-3.6e-04
4	Rz Min	0.037410	-0.00456	3.162055	-0.02235	1.69e-04	-3.6e-04
4	Rz Max	0.008537	-0.00703	3.410529	-0.03233	-0.00484	-5.2e-04
4	Mx Min	0.008537	-0.00703	3.410529	-0.03233	-0.00484	-5.2e-04
4	Mx Max	0.037410	-0.00456	3.162055	-0.02235	1.69e-04	-3.6e-04
4	My Min	0.008537	-0.00703	3.410529	-0.03233	-0.00484	-5.2e-04
4	My Max	0.037410	-0.00456	3.162055	-0.02235	1.69e-04	-3.6e-04
4	Mz Min	0.008537	-0.00703	3.410529	-0.03233	-0.00484	-5.2e-04
4	Mz Max	0.037410	-0.00456	3.162055	-0.02235	1.69e-04	-3.6e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
5	Rx Min	-0.15617	0.472281	4.718259	-0.06460	-0.01788	3.07e-04
5	Rx Max	-0.13529	0.414394	4.280079	-0.05630	-0.01543	2.00e-04
5	Ry Min	-0.13529	0.414394	4.280079	-0.05630	-0.01543	2.00e-04
5	Ry Max	-0.15617	0.472281	4.718259	-0.06460	-0.01788	3.07e-04
5	Rz Min	-0.13529	0.414394	4.280079	-0.05630	-0.01543	2.00e-04
5	Rz Max	-0.15617	0.472281	4.718259	-0.06460	-0.01788	3.07e-04
5	Mx Min	-0.15617	0.472281	4.718259	-0.06460	-0.01788	3.07e-04
5	Mx Max	-0.13529	0.414394	4.280079	-0.05630	-0.01543	2.00e-04
5	My Min	-0.15617	0.472281	4.718259	-0.06460	-0.01788	3.07e-04
5	My Max	-0.13529	0.414394	4.280079	-0.05630	-0.01543	2.00e-04
5	Mz Min	-0.13529	0.414394	4.280079	-0.05630	-0.01543	2.00e-04
5	Mz Max	-0.15617	0.472281	4.718259	-0.06460	-0.01788	3.07e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
6	Rx Min	0.016694	0.376999	3.261405	-0.05261	0.018335	-1.4e-04
6	Rx Max	0.024225	0.408640	3.498665	-0.05710	0.026808	-2.1e-04
6	Ry Min	0.016694	0.376999	3.261405	-0.05261	0.018335	-1.4e-04
6	Ry Max	0.024225	0.408640	3.498665	-0.05710	0.026808	-2.1e-04
6	Rz Min	0.016694	0.376999	3.261405	-0.05261	0.018335	-1.4e-04
6	Rz Max	0.024225	0.408640	3.498665	-0.05710	0.026808	-2.1e-04
6	Mx Min	0.024225	0.408640	3.498665	-0.05710	0.026808	-2.1e-04
6	Mx Max	0.016694	0.376999	3.261405	-0.05261	0.018335	-1.4e-04
6	My Min	0.016694	0.376999	3.261405	-0.05261	0.018335	-1.4e-04
6	My Max	0.024225	0.408640	3.498665	-0.05710	0.026808	-2.1e-04
6	Mz Min	0.024225	0.408640	3.498665	-0.05710	0.026808	-2.1e-04
6	Mz Max	0.016694	0.376999	3.261405	-0.05261	0.018335	-1.4e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
7	Rx Min	-0.00450	0.450023	4.536628	-0.06494	-0.01357	-5.9e-05
7	Rx Max	-0.00324	0.389566	4.156170	-0.05592	-0.00928	-5.1e-05
7	Ry Min	-0.00324	0.389566	4.156170	-0.05592	-0.00928	-5.1e-05
7	Ry Max	-0.00450	0.450023	4.536628	-0.06494	-0.01357	-5.9e-05
7	Rz Min	-0.00324	0.389566	4.156170	-0.05592	-0.00928	-5.1e-05
7	Rz Max	-0.00450	0.450023	4.536628	-0.06494	-0.01357	-5.9e-05
7	Mx Min	-0.00450	0.450023	4.536628	-0.06494	-0.01357	-5.9e-05
7	Mx Max	-0.00324	0.389566	4.156170	-0.05592	-0.00928	-5.1e-05
7	My Min	-0.00450	0.450023	4.536628	-0.06494	-0.01357	-5.9e-05
7	My Max	-0.00324	0.389566	4.156170	-0.05592	-0.00928	-5.1e-05
7	Mz Min	-0.00450	0.450023	4.536628	-0.06494	-0.01357	-5.9e-05
7	Mz Max	-0.00324	0.389566	4.156170	-0.05592	-0.00928	-5.1e-05

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
8	Rx Min	0.091263	0.134324	4.502809	-0.01875	0.098683	-4.7e-04
8	Rx Max	0.133690	0.144528	4.833928	-0.02018	0.144538	-6.9e-04
8	Ry Min	0.091263	0.134324	4.502809	-0.01875	0.098683	-4.7e-04
8	Ry Max	0.133690	0.144528	4.833928	-0.02018	0.144538	-6.9e-04
8	Rz Min	0.091263	0.134324	4.502809	-0.01875	0.098683	-4.7e-04
8	Rz Max	0.133690	0.144528	4.833928	-0.02018	0.144538	-6.9e-04
8	Mx Min	0.133690	0.144528	4.833928	-0.02018	0.144538	-6.9e-04
8	Mx Max	0.091263	0.134324	4.502809	-0.01875	0.098683	-4.7e-04
8	My Min	0.091263	0.134324	4.502809	-0.01875	0.098683	-4.7e-04
8	My Max	0.133690	0.144528	4.833928	-0.02018	0.144538	-6.9e-04
8	Mz Min	0.133690	0.144528	4.833928	-0.02018	0.144538	-6.9e-04
8	Mz Max	0.091263	0.134324	4.502809	-0.01875	0.098683	-4.7e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
9	Rx Min	-0.11879	0.267831	5.275874	-0.03935	-0.13400	7.94e-04
9	Rx Max	-0.08096	0.214588	4.871815	-0.03142	-0.09141	5.44e-04
9	Ry Min	-0.08096	0.214588	4.871815	-0.03142	-0.09141	5.44e-04
9	Ry Max	-0.11879	0.267831	5.275874	-0.03935	-0.13400	7.94e-04

9	Rz Min	-0.08096	0.214588	4.871815	-0.03142	-0.09141	5.44e-04
9	Rz Max	-0.11879	0.267831	5.275874	-0.03935	-0.13400	7.94e-04
9	Mx Min	-0.11879	0.267831	5.275874	-0.03935	-0.13400	7.94e-04
9	Mx Max	-0.08096	0.214588	4.871815	-0.03142	-0.09141	5.44e-04
9	My Min	-0.11879	0.267831	5.275874	-0.03935	-0.13400	7.94e-04
9	My Max	-0.08096	0.214588	4.871815	-0.03142	-0.09141	5.44e-04
9	Mz Min	-0.08096	0.214588	4.871815	-0.03142	-0.09141	5.44e-04
9	Mz Max	-0.11879	0.267831	5.275874	-0.03935	-0.13400	7.94e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
10	Rx Min	0.100491	-0.09257	4.724907	0.013688	0.105256	3.84e-04
10	Rx Max	0.147147	-0.10840	5.062945	0.016019	0.154143	5.62e-04
10	Ry Min	0.147147	-0.10840	5.062945	0.016019	0.154143	5.62e-04
10	Ry Max	0.100491	-0.09257	4.724907	0.013688	0.105256	3.84e-04
10	Rz Min	0.100491	-0.09257	4.724907	0.013688	0.105256	3.84e-04
10	Rz Max	0.147147	-0.10840	5.062945	0.016019	0.154143	5.62e-04
10	Mx Min	0.100491	-0.09257	4.724907	0.013688	0.105256	3.84e-04
10	Mx Max	0.147147	-0.10840	5.062945	0.016019	0.154143	5.62e-04
10	My Min	0.100491	-0.09257	4.724907	0.013688	0.105256	3.84e-04
10	My Max	0.147147	-0.10840	5.062945	0.016019	0.154143	5.62e-04
10	Mz Min	0.100491	-0.09257	4.724907	0.013688	0.105256	3.84e-04
10	Mz Max	0.147147	-0.10840	5.062945	0.016019	0.154143	5.62e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
11	Rx Min	-0.15874	0.041777	5.195523	-0.00698	-0.16401	-3.7e-04
11	Rx Max	-0.10844	0.013709	4.825047	-0.00269	-0.11203	-2.5e-04
11	Ry Min	-0.10844	0.013709	4.825047	-0.00269	-0.11203	-2.5e-04
11	Ry Max	-0.15874	0.041777	5.195523	-0.00698	-0.16401	-3.7e-04
11	Rz Min	-0.10844	0.013709	4.825047	-0.00269	-0.11203	-2.5e-04
11	Rz Max	-0.15874	0.041777	5.195523	-0.00698	-0.16401	-3.7e-04
11	Mx Min	-0.15874	0.041777	5.195523	-0.00698	-0.16401	-3.7e-04
11	Mx Max	-0.10844	0.013709	4.825047	-0.00269	-0.11203	-2.5e-04
11	My Min	-0.15874	0.041777	5.195523	-0.00698	-0.16401	-3.7e-04
11	My Max	-0.10844	0.013709	4.825047	-0.00269	-0.11203	-2.5e-04
11	Mz Min	-0.15874	0.041777	5.195523	-0.00698	-0.16401	-3.7e-04
11	Mz Max	-0.10844	0.013709	4.825047	-0.00269	-0.11203	-2.5e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
12	Rx Min	0.024006	-0.29081	4.330321	0.041541	0.029558	2.62e-04
12	Rx Max	0.035113	-0.31754	4.637703	0.045476	0.043306	3.85e-04
12	Ry Min	0.035113	-0.31754	4.637703	0.045476	0.043306	3.85e-04
12	Ry Max	0.024006	-0.29081	4.330321	0.041541	0.029558	2.62e-04
12	Rz Min	0.024006	-0.29081	4.330321	0.041541	0.029558	2.62e-04
12	Rz Max	0.035113	-0.31754	4.637703	0.045476	0.043306	3.85e-04
12	Mx Min	0.024006	-0.29081	4.330321	0.041541	0.029558	2.62e-04
12	Mx Max	0.035113	-0.31754	4.637703	0.045476	0.043306	3.85e-04
12	My Min	0.024006	-0.29081	4.330321	0.041541	0.029558	2.62e-04
12	My Max	0.035113	-0.31754	4.637703	0.045476	0.043306	3.85e-04
12	Mz Min	0.024006	-0.29081	4.330321	0.041541	0.029558	2.62e-04
12	Mz Max	0.035113	-0.31754	4.637703	0.045476	0.043306	3.85e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
13	Rx Min	-0.08071	-0.22336	4.313295	0.030129	-0.08522	-3.0e-04
13	Rx Max	-0.05524	-0.22281	4.049993	0.030343	-0.05836	-2.0e-04
13	Ry Min	-0.08071	-0.22336	4.313295	0.030129	-0.08522	-3.0e-04
13	Ry Max	-0.05524	-0.22281	4.049993	0.030343	-0.05836	-2.0e-04
13	Rz Min	-0.05524	-0.22281	4.049993	0.030343	-0.05836	-2.0e-04
13	Rz Max	-0.08071	-0.22336	4.313295	0.030129	-0.08522	-3.0e-04
13	Mx Min	-0.08071	-0.22336	4.313295	0.030129	-0.08522	-3.0e-04
13	Mx Max	-0.05524	-0.22281	4.049993	0.030343	-0.05836	-2.0e-04
13	My Min	-0.08071	-0.22336	4.313295	0.030129	-0.08522	-3.0e-04
13	My Max	-0.05524	-0.22281	4.049993	0.030343	-0.05836	-2.0e-04
13	Mz Min	-0.08071	-0.22336	4.313295	0.030129	-0.08522	-3.0e-04
13	Mz Max	-0.05524	-0.22281	4.049993	0.030343	-0.05836	-2.0e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
14	Rx Min	0.119582	-0.36797	4.476557	0.049589	0.010005	1.93e-04
14	Rx Max	0.161256	-0.39517	4.848628	0.053675	0.013586	2.79e-04
14	Ry Min	0.161256	-0.39517	4.848628	0.053675	0.013586	2.79e-04
14	Ry Max	0.119582	-0.36797	4.476557	0.049589	0.010005	1.93e-04
14	Rz Min	0.119582	-0.36797	4.476557	0.049589	0.010005	1.93e-04
14	Rz Max	0.161256	-0.39517	4.848628	0.053675	0.013586	2.79e-04
14	Mx Min	0.119582	-0.36797	4.476557	0.049589	0.010005	1.93e-04
14	Mx Max	0.161256	-0.39517	4.848628	0.053675	0.013586	2.79e-04
14	My Min	0.119582	-0.36797	4.476557	0.049589	0.010005	1.93e-04
14	My Max	0.161256	-0.39517	4.848628	0.053675	0.013586	2.79e-04
14	Mz Min	0.119582	-0.36797	4.476557	0.049589	0.010005	1.93e-04
14	Mz Max	0.161256	-0.39517	4.848628	0.053675	0.013586	2.79e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
15	Rx Min	0.005380	-0.31678	4.217361	0.048043	-0.00455	-2.5e-04
15	Rx Max	0.057536	-0.46928	4.402536	0.070720	-0.00101	-3.5e-04
15	Ry Min	0.057536	-0.46928	4.402536	0.070720	-0.00101	-3.5e-04
15	Ry Max	0.005380	-0.31678	4.217361	0.048043	-0.00455	-2.5e-04
15	Rz Min	0.005380	-0.31678	4.217361	0.048043	-0.00455	-2.5e-04
15	Rz Max	0.057536	-0.46928	4.402536	0.070720	-0.00101	-3.5e-04
15	Mx Min	0.005380	-0.31678	4.217361	0.048043	-0.00455	-2.5e-04
15	Mx Max	0.057536	-0.46928	4.402536	0.070720	-0.00101	-3.5e-04
15	My Min	0.005380	-0.31678	4.217361	0.048043	-0.00455	-2.5e-04
15	My Max	0.057536	-0.46928	4.402536	0.070720	-0.00101	-3.5e-04
15	Mz Min	0.057536	-0.46928	4.402536	0.070720	-0.00101	-3.5e-04
15	Mz Max	0.005380	-0.31678	4.217361	0.048043	-0.00455	-2.5e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
16	Rx Min	-0.02940	-0.21794	3.687627	0.031101	-0.03597	-3.1e-04
16	Rx Max	-0.02027	-0.21354	3.497589	0.030655	-0.02470	-2.0e-04
16	Ry Min	-0.02940	-0.21794	3.687627	0.031101	-0.03597	-3.1e-04
16	Ry Max	-0.02027	-0.21354	3.497589	0.030655	-0.02470	-2.0e-04
16	Rz Min	-0.02027	-0.21354	3.497589	0.030655	-0.02470	-2.0e-04
16	Rz Max	-0.02940	-0.21794	3.687627	0.031101	-0.03597	-3.1e-04
16	Mx Min	-0.02027	-0.21354	3.497589	0.030655	-0.02470	-2.0e-04
16	Mx Max	-0.02940	-0.21794	3.687627	0.031101	-0.03597	-3.1e-04
16	My Min	-0.02940	-0.21794	3.687627	0.031101	-0.03597	-3.1e-04
16	My Max	-0.02027	-0.21354	3.497589	0.030655	-0.02470	-2.0e-04
16	Mz Min	-0.02940	-0.21794	3.687627	0.031101	-0.03597	-3.1e-04
16	Mz Max	-0.02027	-0.21354	3.497589	0.030655	-0.02470	-2.0e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
17	Rx Min	0.118662	-0.12488	4.854816	0.015380	0.010488	1.56e-04
17	Rx Max	0.124891	-0.16078	5.548393	0.020046	0.011345	2.39e-04
17	Ry Min	0.124891	-0.16078	5.548393	0.020046	0.011345	2.39e-04
17	Ry Max	0.118662	-0.12488	4.854816	0.015380	0.010488	1.56e-04
17	Rz Min	0.118662	-0.12488	4.854816	0.015380	0.010488	1.56e-04
17	Rz Max	0.124891	-0.16078	5.548393	0.020046	0.011345	2.39e-04
17	Mx Min	0.118662	-0.12488	4.854816	0.015380	0.010488	1.56e-04
17	Mx Max	0.124891	-0.16078	5.548393	0.020046	0.011345	2.39e-04
17	My Min	0.118662	-0.12488	4.854816	0.015380	0.010488	1.56e-04
17	My Max	0.124891	-0.16078	5.548393	0.020046	0.011345	2.39e-04
17	Mz Min	0.118662	-0.12488	4.854816	0.015380	0.010488	1.56e-04
17	Mz Max	0.124891	-0.16078	5.548393	0.020046	0.011345	2.39e-04

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
18	Rx Min	-0.12217	-0.32204	3.603726	0.042532	-0.01474	-3.8e-04
18	Rx Max	-0.11794	-0.31125	3.464578	0.041333	-0.01414	-2.5e-04
18	Ry Min	-0.12217	-0.32204	3.603726	0.042532	-0.01474	-3.8e-04
18	Ry Max	-0.11794	-0.31125	3.464578	0.041333	-0.01414	-2.5e-04
18	Rz Min	-0.11794	-0.31125	3.464578	0.041333	-0.01414	-2.5e-04
18	Rz Max	-0.12217	-0.32204	3.603726	0.042532	-0.01474	-3.8e-04
18	Mx Min	-0.11794	-0.31125	3.464578	0.041333	-0.01414	-2.5e-04
18	Mx Max	-0.12217	-0.32204	3.603726	0.042532	-0.01474	-3.8e-04
18	My Min	-0.12217	-0.32204	3.603726	0.042532	-0.01474	-3.8e-04
18	My Max	-0.11794	-0.31125	3.464578	0.041333	-0.01414	-2.5e-04
18	Mz Min	-0.12217	-0.32204	3.603726	0.042532	-0.01474	-3.8e-04
18	Mz Max	-0.11794	-0.31125	3.464578	0.041333	-0.01414	-2.5e-04

Sollecitazioni derivate dall'Involuppo ~SL08 STR SLV

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
1	Rx Min	-0.17522	0.469406	-0.95514	-0.06621	-0.02788	0.001614
1	Rx Max	0.166300	0.364952	6.400262	-0.04540	0.027602	-0.00214
1	Ry Min	-0.01516	-0.85394	-1.23742	0.135025	-0.00292	7.96e-06
1	Ry Max	0.006235	1.688295	6.682543	-0.24663	0.002642	-5.4e-04
1	Rz Min	-0.15124	-0.34920	-2.82622	0.057149	-0.02464	0.001508
1	Rz Max	0.142321	1.183554	8.271340	-0.16876	0.024365	-0.00204
1	Mx Min	0.006235	1.688295	6.682543	-0.24663	0.002642	-5.4e-04
1	Mx Max	-0.01516	-0.85394	-1.23742	0.135025	-0.00292	7.96e-06
1	My Min	-0.17522	0.469406	-0.95514	-0.06621	-0.02788	0.001614
1	My Max	0.166300	0.364952	6.400262	-0.04540	0.027602	-0.00214
1	Mz Min	0.164916	0.399656	6.597470	-0.05002	0.027473	-0.00223
1	Mz Max	-0.17384	0.434701	-1.15235	-0.06159	-0.02775	0.001705

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
2	Rx Min	-1.04897	0.237539	5.113448	-0.13026	-0.20335	0.001548
2	Rx Max	0.858054	-0.30424	-0.94828	0.166167	0.178459	-0.00207
2	Ry Min	0.833795	-0.31739	-0.72990	0.173101	0.174408	-0.00185
2	Ry Max	-1.02471	0.250695	4.895072	-0.13719	-0.19929	0.001334

2	Rz Min	0.858054	-0.30424	-0.94828	0.166167	0.178459	-0.00207
2	Rz Max	-1.04897	0.237539	5.113448	-0.13026	-0.20335	0.001548
2	Mx Min	-1.02471	0.250695	4.895072	-0.13719	-0.19929	0.001334
2	Mx Max	0.833795	-0.31739	-0.72990	0.173101	0.174408	-0.00185
2	My Min	-1.04897	0.237539	5.113448	-0.13026	-0.20335	0.001548
2	My Max	0.858054	-0.30424	-0.94828	0.166167	0.178459	-0.00207
2	Mz Min	0.696851	-0.28267	0.331452	0.154543	0.152671	-0.00218
2	Mz Max	-0.88776	0.215971	3.833718	-0.11864	-0.17756	0.001656

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
3	Rx Min	-3.08509	0.081513	-3.86712	-0.07478	-0.51102	-6.7e-04
3	Rx Max	3.270900	-0.01113	8.084224	-0.01253	0.527177	5.30e-04
3	Ry Min	0.398394	-0.24757	2.420579	0.171843	0.061751	5.71e-04
3	Ry Max	-0.21258	0.317947	1.796528	-0.25915	-0.04560	-7.1e-04
3	Rz Min	-3.04765	0.068433	-4.00217	-0.05861	-0.50417	-0.00117
3	Rz Max	3.233456	0.001948	8.219277	-0.02870	0.520322	0.001037
3	Mx Min	-0.27809	0.317885	1.819331	-0.25922	-0.05692	0.001068
3	Mx Max	0.463900	-0.24750	2.397775	0.171920	0.073073	-0.00120
3	My Min	-3.08509	0.081513	-3.86712	-0.07478	-0.51102	-6.7e-04
3	My Max	3.270900	-0.01113	8.084224	-0.01253	0.527177	5.30e-04
3	Mz Min	0.446109	-0.23440	2.525987	0.155775	0.069614	-0.00123
3	Mz Max	-0.26030	0.304786	1.691119	-0.24308	-0.05346	0.001093

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
4	Rx Min	-3.78823	-0.28364	0.830281	-0.08235	-0.60438	-0.00242
4	Rx Max	3.834181	0.272046	5.742303	0.027671	0.599700	0.001541
4	Ry Min	-1.67132	-0.33835	1.301065	0.126084	-0.26674	2.62e-04
4	Ry Max	1.717264	0.326757	5.271519	-0.18076	0.262069	-0.00114
4	Rz Min	-3.73351	-0.28130	0.549444	-0.07229	-0.59512	-0.00151
4	Rz Max	3.779459	0.269707	6.023140	0.017612	0.590442	6.30e-04
4	Mx Min	-0.46565	0.207353	4.214648	-0.25500	-0.08363	-0.00222
4	Mx Max	0.511599	-0.21894	2.357935	0.200324	0.078959	0.001341
4	My Min	-3.78823	-0.28364	0.830281	-0.08235	-0.60438	-0.00242
4	My Max	3.834181	0.272046	5.742303	0.027671	0.599700	0.001541
4	Mz Min	-3.69181	-0.28138	0.948192	-0.07969	-0.58973	-0.00247
4	Mz Max	3.737753	0.269792	5.624392	0.025013	0.585059	0.001599

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
5	Rx Min	-1.32461	0.706219	13.00463	-0.10171	-0.16232	0.003395
5	Rx Max	1.033151	0.180456	-4.00629	-0.01919	0.129018	-0.00289
5	Ry Min	0.044880	-0.94253	-1.36546	0.146465	0.006794	-0.00235
5	Ry Max	-0.33634	1.829204	10.36380	-0.26736	-0.04010	0.002856
5	Rz Min	0.910069	-0.61630	-5.88112	0.099367	0.113795	-0.00287
5	Rz Max	-1.20153	1.502976	14.87946	-0.22027	-0.14710	0.003377
5	Mx Min	-0.33634	1.829204	10.36380	-0.26736	-0.04010	0.002856
5	Mx Max	0.044880	-0.94253	-1.36546	0.146465	0.006794	-0.00235
5	My Min	-1.32461	0.706219	13.00463	-0.10171	-0.16232	0.003395
5	My Max	1.033151	0.180456	-4.00629	-0.01919	0.129018	-0.00289
5	Mz Min	1.033151	0.180456	-4.00629	-0.01919	0.129018	-0.00289
5	Mz Max	-1.32461	0.706219	13.00463	-0.10171	-0.16232	0.003395

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
6	Rx Min	-0.37177	0.362699	0.060051	-0.05017	-0.23405	-0.00380
6	Rx Max	0.412691	0.422940	6.700018	-0.05954	0.279195	0.003457
6	Ry Min	-0.03113	-1.06776	0.581427	0.167642	-0.02010	-0.00200
6	Ry Max	0.072054	1.853402	6.178642	-0.27735	0.065239	0.001650
6	Rz Min	-0.37074	-0.41061	-0.90336	0.067702	-0.21395	-0.00421
6	Rz Max	0.411661	1.196254	7.663425	-0.17741	0.259088	0.003865
6	Mx Min	0.072054	1.853402	6.178642	-0.27735	0.065239	0.001650
6	Mx Max	-0.03113	-1.06776	0.581427	0.167642	-0.02010	-0.00200
6	My Min	-0.37177	0.362699	0.060051	-0.05017	-0.23405	-0.00380
6	My Max	0.412691	0.422940	6.700018	-0.05954	0.279195	0.003457
6	Mz Min	-0.32642	-0.39858	-0.64924	0.066176	-0.20506	-0.00429
6	Mz Max	0.367338	1.184219	7.409311	-0.17589	0.250199	0.003945

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
7	Rx Min	-0.37274	0.567579	10.51843	-0.08615	-0.24482	-0.00371
7	Rx Max	0.365003	0.272010	-1.82563	-0.03471	0.221974	0.003604
7	Ry Min	-0.05138	-1.14916	0.524605	0.180285	-0.02155	-5.1e-04
7	Ry Max	0.043642	1.988752	8.168193	-0.30115	-0.00130	4.04e-04
7	Rz Min	0.271997	-0.68120	-2.92737	0.110981	0.174749	0.002733
7	Rz Max	-0.27973	1.520786	11.62017	-0.23184	-0.19760	-0.00284
7	Mx Min	0.043642	1.988752	8.168193	-0.30115	-0.00130	4.04e-04
7	Mx Max	-0.05138	-1.14916	0.524605	0.180285	-0.02155	-5.1e-04
7	My Min	-0.37274	0.567579	10.51843	-0.08615	-0.24482	-0.00371
7	My Max	0.365003	0.272010	-1.82563	-0.03471	0.221974	0.003604
7	Mz Min	-0.37274	0.567579	10.51843	-0.08615	-0.24482	-0.00371
7	Mz Max	0.365003	0.272010	-1.82563	-0.03471	0.221974	0.003604

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
8	Rx Min	-1.31079	-0.00456	2.075624	0.002200	-0.89948	0.006605
8	Rx Max	1.535743	0.283407	7.261112	-0.04113	1.142698	-0.00777
8	Ry Min	-0.18507	-1.70488	3.041159	0.256249	-0.11600	5.03e-04
8	Ry Max	0.410026	1.983727	6.295577	-0.29518	0.359217	-0.00167
8	Rz Min	-1.23443	-0.96947	1.661019	0.146486	-0.85454	0.005978
8	Rz Max	1.459387	1.248318	7.675717	-0.18541	1.097762	-0.00715
8	Mx Min	0.410026	1.983727	6.295577	-0.29518	0.359217	-0.00167
8	Mx Max	-0.18507	-1.70488	3.041159	0.256249	-0.11600	5.03e-04
8	My Min	-1.31079	-0.00456	2.075624	0.002200	-0.89948	0.006605
8	My Max	1.535743	0.283407	7.261112	-0.04113	1.142698	-0.00777
8	Mz Min	1.535743	0.283407	7.261112	-0.04113	1.142698	-0.00777
8	Mz Max	-1.31079	-0.00456	2.075624	0.002200	-0.89948	0.006605
N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
9	Rx Min	-1.35792	1.471066	8.519858	-0.22360	-1.01715	-0.00599
9	Rx Max	1.158171	-0.98865	1.627832	0.152828	0.791740	0.007328
9	Ry Min	0.436469	-1.75089	3.284123	0.263627	0.261202	-0.00417
9	Ry Max	-0.63622	2.233309	6.863566	-0.33440	-0.48661	0.005506
9	Rz Min	1.146210	-1.17198	1.577483	0.180228	0.784449	-0.00765
9	Rz Max	-1.34596	1.654399	8.570207	-0.25100	-1.00986	0.008985
9	Mx Min	-0.63622	2.233309	6.863566	-0.33440	-0.48661	0.005506
9	Mx Max	0.436469	-1.75089	3.284123	0.263627	0.261202	-0.00417
9	My Min	-1.35792	1.471066	8.519858	-0.22360	-1.01715	-0.00599
9	My Max	1.158171	-0.98865	1.627832	0.152828	0.791740	0.007328
9	Mz Min	-1.22167	0.396170	7.720596	-0.06300	-0.91531	-0.00773
9	Mz Max	1.021919	0.086250	2.427094	-0.00778	0.689901	0.009064
N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
10	Rx Min	-1.39950	-0.55972	1.893386	0.081105	-0.95672	0.005818
10	Rx Max	1.647136	0.358750	7.894466	-0.05140	1.216124	-0.00487
10	Ry Min	-0.17731	-2.06637	4.729119	0.307903	-0.09352	0.003281
10	Ry Max	0.424946	1.865404	5.058733	-0.27820	0.352918	-0.00233
10	Rz Min	-1.39950	-0.55972	1.893386	0.081105	-0.95672	0.005818
10	Rz Max	1.647136	0.358750	7.894466	-0.05140	1.216124	-0.00487
10	Mx Min	0.424946	1.865404	5.058733	-0.27820	0.352918	-0.00233
10	Mx Max	-0.17731	-2.06637	4.729119	0.307903	-0.09352	0.003281
10	My Min	-1.39950	-0.55972	1.893386	0.081105	-0.95672	0.005818
10	My Max	1.647136	0.358750	7.894466	-0.05140	1.216124	-0.00487
10	Mz Min	1.513975	1.182699	7.202058	-0.17467	1.116636	-0.00589
10	Mz Max	-1.26634	-1.38367	2.585794	0.204377	-0.85724	0.006837
N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
11	Rx Min	-1.66781	1.477830	5.743982	-0.22438	-1.23516	0.004338
11	Rx Max	1.400628	-1.42234	4.276588	0.214703	0.959111	-0.00496
11	Ry Min	0.421267	-2.01483	5.005992	0.301178	0.253404	1.61e-04
11	Ry Max	-0.68845	2.070313	5.014578	-0.31085	-0.52945	-7.8e-04
11	Rz Min	1.347823	-0.40326	4.057059	0.062485	0.928809	-0.00616
11	Rz Max	-0.21643	0.059924	6.828274	-0.00994	-0.22361	-5.1e-04
11	Mx Min	-0.68845	2.070313	5.014578	-0.31085	-0.52945	-7.8e-04
11	Mx Max	0.421267	-2.01483	5.005992	0.301178	0.253404	1.61e-04
11	My Min	-1.66781	1.477830	5.743982	-0.22438	-1.23516	0.004338
11	My Max	1.400628	-1.42234	4.276588	0.214703	0.959111	-0.00496
11	Mz Min	1.299100	-0.40969	4.435816	0.063348	0.877433	-0.00629
11	Mz Max	-1.56628	0.465175	5.584754	-0.07302	-1.15348	0.005671
N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
12	Rx Min	-0.47092	-1.67227	0.803811	0.247695	-0.31958	-0.00381
12	Rx Max	0.530044	1.063920	8.164214	-0.16068	0.392441	0.004455
12	Ry Min	-0.17602	-2.04126	4.855529	0.305175	-0.09113	-1.1e-05
12	Ry Max	0.235141	1.432912	4.112495	-0.21816	0.163990	6.58e-04
12	Rz Min	-0.42961	-0.80901	-0.03736	0.117243	-0.30000	-0.00435
12	Rz Max	0.488733	0.200656	9.005387	-0.03022	0.372864	0.004999
12	Mx Min	0.235141	1.432912	4.112495	-0.21816	0.163990	6.58e-04
12	Mx Max	-0.17602	-2.04126	4.855529	0.305175	-0.09113	-1.1e-05
12	My Min	-0.47092	-1.67227	0.803811	0.247695	-0.31958	-0.00381
12	My Max	0.530044	1.063920	8.164214	-0.16068	0.392441	0.004455
12	Mz Min	-0.42961	-0.80901	-0.03736	0.117243	-0.30000	-0.00435
12	Mz Max	0.488733	0.200656	9.005387	-0.03022	0.372864	0.004999
N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
13	Rx Min	-0.91016	1.187439	3.014968	-0.18356	-0.67867	-0.00498
13	Rx Max	0.774196	-1.63361	5.348321	0.244035	0.535088	0.004481
13	Ry Min	0.289747	-2.03610	5.869960	0.303186	0.169404	0.001926
13	Ry Max	-0.42571	1.589933	2.493329	-0.24271	-0.31298	-0.00243
13	Rz Min	-0.42571	1.589933	2.493329	-0.24271	-0.31298	-0.00243
13	Rz Max	0.289747	-2.03610	5.869960	0.303186	0.169404	0.001926
13	Mx Min	-0.45118	1.589379	2.756630	-0.24293	-0.33984	-0.00252

13	Mx Max	0.315217	-2.03555	5.606658	0.303400	0.196259	0.002019
13	My Min	-0.91016	1.187439	3.014968	-0.18356	-0.67867	-0.00498
13	My Max	0.774196	-1.63361	5.348321	0.244035	0.535088	0.004481
13	Mz Min	-0.90924	1.305231	2.907879	-0.20130	-0.67650	-0.00504
13	Mz Max	0.773284	-1.75140	5.455409	0.261769	0.532923	0.004538

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
14	Rx Min	-2.62152	-1.39078	0.004403	0.199141	-0.32236	0.001829
14	Rx Max	2.902356	0.627644	9.320782	-0.09588	0.345952	-0.00136
14	Ry Min	-1.17155	-1.83319	5.932521	0.263953	-0.14745	-9.1e-04
14	Ry Max	1.452385	1.070050	3.392664	-0.16069	0.171039	0.001383
14	Rz Min	-2.28321	-0.66351	-1.57123	0.092777	-0.28176	0.002938
14	Rz Max	2.564043	-0.09962	10.89642	0.010486	0.305354	-0.00247
14	Mx Min	1.452385	1.070050	3.392664	-0.16069	0.171039	0.001383
14	Mx Max	-1.17155	-1.83319	5.932521	0.263953	-0.14745	-9.1e-04
14	My Min	-2.62152	-1.39078	0.004403	0.199141	-0.32236	0.001829
14	My Max	2.902356	0.627644	9.320782	-0.09588	0.345952	-0.00136
14	Mz Min	2.520920	-0.05693	10.50463	0.004147	0.301636	-0.00255
14	Mz Max	-2.24008	-0.70621	-1.17944	0.099117	-0.27805	0.003026

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
15	Rx Min	-2.82275	-1.35465	12.61479	0.197176	-0.34560	-0.00126
15	Rx Max	2.885664	0.568590	-3.99490	-0.07841	0.340037	6.62e-04
15	Ry Min	-2.76978	-1.50763	13.44747	0.219940	-0.34202	-0.00137
15	Ry Max	2.832695	0.721570	-4.82758	-0.10118	0.336457	7.67e-04
15	Rz Min	2.469612	0.354130	-4.83070	-0.04399	0.293325	0.002951
15	Rz Max	-2.40670	-1.14019	13.45059	0.162756	-0.29889	-0.00355
15	Mx Min	2.832695	0.721570	-4.82758	-0.10118	0.336457	7.67e-04
15	Mx Max	-2.76978	-1.50763	13.44747	0.219940	-0.34202	-0.00137
15	My Min	-2.82275	-1.35465	12.61479	0.197176	-0.34560	-0.00126
15	My Max	2.885664	0.568590	-3.99490	-0.07841	0.340037	6.62e-04
15	Mz Min	-0.13253	-0.11241	5.945383	0.011441	-0.02504	-0.00463
15	Mz Max	0.195450	-0.67365	2.674513	0.107322	0.019479	0.004026

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
16	Rx Min	-0.41150	1.003101	1.404413	-0.15669	-0.30032	-0.00155
16	Rx Max	0.361833	-1.43457	5.780804	0.218449	0.239652	0.001036
16	Ry Min	0.261662	-1.76660	6.278429	0.268323	0.124211	-0.00212
16	Ry Max	-0.31133	1.335123	0.906787	-0.20657	-0.18488	0.001612
16	Rz Min	-0.31133	1.335123	0.906787	-0.20657	-0.18488	0.001612
16	Rz Max	0.261662	-1.76660	6.278429	0.268323	0.124211	-0.00212
16	Mx Min	-0.31133	1.335123	0.906787	-0.20657	-0.18488	0.001612
16	Mx Max	0.261662	-1.76660	6.278429	0.268323	0.124211	-0.00212
16	My Min	-0.41150	1.003101	1.404413	-0.15669	-0.30032	-0.00155
16	My Max	0.361833	-1.43457	5.780804	0.218449	0.239652	0.001036
16	Mz Min	0.071887	-1.12578	5.014833	0.169649	-0.01721	-0.00330
16	Mz Max	-0.12156	0.694307	2.170383	-0.10789	-0.04346	0.002786

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
17	Rx Min	-0.45666	-0.34825	10.15919	0.041643	-0.09201	-6.6e-05
17	Rx Max	0.700217	0.062593	0.244015	-0.00622	0.113847	4.61e-04
17	Ry Min	-0.32948	-0.46688	12.19613	0.057097	-0.07304	-0.00496
17	Ry Max	0.573030	0.181223	-1.79292	-0.02167	0.094869	0.005352
17	Rz Min	0.573030	0.181223	-1.79292	-0.02167	0.094869	0.005352
17	Rz Max	-0.32948	-0.46688	12.19613	0.057097	-0.07304	-0.00496
17	Mx Min	0.573030	0.181223	-1.79292	-0.02167	0.094869	0.005352
17	Mx Max	-0.32948	-0.46688	12.19613	0.057097	-0.07304	-0.00496
17	My Min	-0.45666	-0.34825	10.15919	0.041643	-0.09201	-6.6e-05
17	My Max	0.700217	0.062593	0.244015	-0.00622	0.113847	4.61e-04
17	Mz Min	0.165805	-0.34220	8.886559	0.042857	0.012657	-0.00895
17	Mz Max	0.077749	0.056541	1.516651	-0.00743	0.009176	0.009342

N	CdC	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kNm)	My (kNm)	Mz (kNm)
18	Rx Min	-0.22006	0.312194	1.169529	-0.05126	-0.03279	-0.00156
18	Rx Max	-0.02005	-0.94549	5.898776	0.135126	0.003911	9.30e-04
18	Ry Min	-0.17087	-1.76099	8.257258	0.254208	-0.01831	0.009469
18	Ry Max	-0.06924	1.127696	-1.18895	-0.17034	-0.01056	-0.01010
18	Rz Min	-0.06924	1.127696	-1.18895	-0.17034	-0.01056	-0.01010
18	Rz Max	-0.17087	-1.76099	8.257258	0.254208	-0.01831	0.009469
18	Mx Min	-0.06924	1.127696	-1.18895	-0.17034	-0.01056	-0.01010
18	Mx Max	-0.17087	-1.76099	8.257258	0.254208	-0.01831	0.009469
18	My Min	-0.21939	0.289635	1.251078	-0.04794	-0.03294	-0.00156
18	My Max	-0.02071	-0.92293	5.817226	0.131805	0.004057	9.37e-04
18	Mz Min	-0.07126	1.041715	-0.77797	-0.15807	-0.01166	-0.01025
18	Mz Max	-0.16885	-1.67501	7.846278	0.241939	-0.01722	0.009621

4.2 INVILUPPO SPOSTAMENTI NODALI ASSOLUTI

Per ciascuna Condizione di Carico di Inviluppo dei nodi vengono riportati gli spostamenti assoluti inviluppati ai nodi

N	= Numero del Nodo
CdC	= Condizione di Carico di Inviluppo
X	= Spostamento in direzione X
Y	= Spostamento in direzione Y
Z	= Spostamento in direzione Z
Rx	= Rotazione attorno all'asse X
Ry	= Rotazione attorno all'asse Y
Rz	= Rotazione attorno all'asse Z

Sono di seguito elencati i dati dei seguenti inviluppi:

- ~SL08 SLD
- ~SL08 SLO Dannegg.
- ~SL08 SLV Sism. Orizz. Sicurezza

4.2.1 Descrizione inviluppo “~SL08 SLD”

Agisce sul gruppo di selezione “~Wiz.SL08:Tutto - Sism.V”.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 SLD Sism. Orizz. 1	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLD Sism. Orizz. 2	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell’inviluppo “~SL08 SLD”

Descrizione inviluppo “~SL08 SLD Sism. Orizz. 1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 3Dy	Sisma SLD X Dx	Var.non Contemp.	1	-1	1
CdC elem. 4Dy	Sisma SLD X Sx	Var.non Contemp.	1	-1	1
CdC elem. 7Dy	Sisma SLD Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 8Dy	Sisma SLD Y Sx	Var.non Contemp.	2	-0.3	0.3

Descrizione inviluppo “~SL08 SLD Sism. Orizz. 2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 3Dy	Sisma SLD X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 4Dy	Sisma SLD X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 7Dy	Sisma SLD Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 8Dy	Sisma SLD Y Sx	Var.non Contemp.	2	-1	1

4.2.2 Descrizione inviluppo “~SL08 SLO Dannegg.”

Agisce sul gruppo di selezione “~Wiz.SL08:Tutto - Sism.V”.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 SLO Sism. Orizz. Dannegg. 1	Perm.non Contemp.	1	1	1

Inviluppo	~SL08 SLO Sism. Orizz. Dannegg. 2	Perm.non Contemp.	1	1	1
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Descrizione degli involuppi contenuti nell'involuppo “~SL08 SLO Dannegg.”

Descrizione involuppo “~SL08 SLO Sism. Orizz. Dannegg. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 1Dy	Sisma SLO X Dx	Var.non Contemp.	1	-1	1
CdC elem. 2Dy	Sisma SLO X Sx	Var.non Contemp.	1	-1	1
CdC elem. 5Dy	Sisma SLO Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 6Dy	Sisma SLO Y Sx	Var.non Contemp.	2	-0.3	0.3

Descrizione involuppo “~SL08 SLO Sism. Orizz. Dannegg. 2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 1Dy	Sisma SLO X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 2Dy	Sisma SLO X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 5Dy	Sisma SLO Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 6Dy	Sisma SLO Y Sx	Var.non Contemp.	2	-1	1

4.2.3 Descrizione involuppo “~SL08 SLV Sism. Orizz. Sicurezza”

Agisce sul gruppo di selezione “~Wiz.SL08:Tutto - Sism.V”.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL08 SLV Sism. Orizz. Sicurezza 1	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLV Sism. Orizz. Sicurezza 2	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell'involuppo “~SL08 SLV Sism. Orizz. Sicurezza”

Descrizione involuppo “~SL08 SLV Sism. Orizz. Sicurezza 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-1	1
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-1	1
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-0.3	0.3

Descrizione involuppo “~SL08 SLV Sism. Orizz. Sicurezza 2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-1	1

4.2.4 Descrizione spostamenti

Massimi spostamenti rilevati per l'involuppo ~SL08 SLV Sism. Orizz. Sicurezza

Spostamento lungo X: Nodo n°177 Valore -0.630403 cm
 Spostamento lungo Y: Nodo n°206 Valore -0.168094 cm
 Spostamento lungo Z: Nodo n°341 Valore -0.373059 cm
 Rotazione attorno X: Nodo n°305 Valore -0.173865 °
 Rotazione attorno Y: Nodo n°339 Valore 0.365967 °
 Rotazione attorno Z: Nodo n°167 Valore 0.279403 °

5. VERIFICHE

5.1 VERIFICHE SU ELEMENTI TIPO BEAM - TRUSS

A seguito verranno indicate le verifiche più gravose per ogni sezione base o armatura

5.1.1 Descrizione set inviluppi di verifica

Di seguito sono descritti i set inviluppi di verifica utilizzati:

DESCRIZIONE SET INVILUPPI DI VERIFICA “~SL08”

E' costituito dai seguenti inviluppi:

- Inviluppi SLE Combinazione Q.Perm. secondo il DM 14/01/2008

Descrizione Inviluppo “~SL08 SLE q.perm.”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1

- Inviluppi SLE Combinazione Frequente secondo il DM 14/01/2008

Descrizione Inviluppo “~SL08 SLE freq.”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 SLE freq. 1	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell'inviluppo “~SL08 SLE freq.”

Descrizione inviluppo “~SL08 SLE freq. 1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1

- Inviluppi SLE Combinazione Rara secondo il DM 14/01/2008

Descrizione Inviluppo “~SL08 SLE caratt.”

Agisce su tutte le entità del modello.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 SLE caratt. 1	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell'inviluppo “~SL08 SLE caratt.”

Descrizione inviluppo “~SL08 SLE caratt. 1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
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CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1

- Inviluppi S.L.U. secondo il DM 14/01/2008

Gli inviluppi con i quali agisce la verifica sono:

- ~SL08 STR SLV Sism. Vert.

- ~SL08 STR SLV

Descrizione Inviluppo “~SL08 STR SLV Sism. Vert.”

Agisce sul gruppo di selezione “~~~S 275”.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 STR SLV_1	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLU Sism. Vert._1	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLU Sism. Vert._2	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLU Sism. Vert._3	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell’inviluppo “~SL08 STR SLV Sism. Vert.”

Descrizione inviluppo “~SL08 STR SLV_1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Variabile		0	1.5

Descrizione inviluppo “~SL08 SLU Sism. Vert._1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-1	1
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-1	1
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 20Dy	Sisma SLV Z	Variabile		-0.3	0.3

Descrizione inviluppo “~SL08 SLU Sism. Vert._2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-1	1
CdC elem. 20Dy	Sisma SLV Z	Variabile		-0.3	0.3

Descrizione inviluppo “~SL08 SLU Sism. Vert._3”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 20Dy	Sisma SLV Z	Variabile		-1	1

Descrizione Inviluppo “~SL08 STR SLV”

Agisce sul gruppo di selezione “~Wiz.SL08:Tutto - Sism.V”.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 STR SLV_1	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLU Sism. Orizz._1	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLU Sism. Orizz._2	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell'inviluppo “~SL08 STR SLV”

Descrizione inviluppo “~SL08 STR SLV_1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Variabile		0	1.5

Descrizione inviluppo “~SL08 SLU Sism. Orizz._1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-1	1
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-1	1
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-0.3	0.3

Descrizione inviluppo “~SL08 SLU Sism. Orizz._2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-1	1

- Inviluppi S.L.U. Combinazione Eccezionale secondo il DM 14/01/2008

Gli inviluppi con i quali agisce la verifica sono:

- ~SL08 SLD 2/3 Sism. Vert.

- ~SL08 SLD 2/3

Descrizione Inviluppo “~SL08 SLD 2/3 Sism. Vert.”

Agisce sul gruppo di selezione “~~~S 275”.

Condizioni di inviluppo automatiche

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Inviluppo	~SL08 SLD 2/3 Sism. Vert._1	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLD 2/3 Sism. Vert._2	Perm.non Contemp.	1	1	1
Inviluppo	~SL08 SLD 2/3 Sism. Vert._3	Perm.non Contemp.	1	1	1

Descrizione degli inviluppi contenuti nell'inviluppo “~SL08 SLD 2/3 Sism. Vert.”

Descrizione inviluppo “~SL08 SLD 2/3 Sism. Vert._1”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-1	1
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-1	1
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-0.3	0.3

CdC elem. 19Dy	Sisma SLD 2/3 Z	Variabile		-0.3	0.3
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Descrizione involuppo “~SL08 SLD 2/3 Sism. Vert. 2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-1	1
CdC elem. 19Dy	Sisma SLD 2/3 Z	Variabile		-0.3	0.3

Descrizione involuppo “~SL08 SLD 2/3 Sism. Vert. 3”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 19Dy	Sisma SLD 2/3 Z	Variabile		-1	1

Descrizione Involuppo “~SL08 SLD 2/3”

Agisce sul gruppo di selezione “~Wiz.SL08:Tutto - Sism.V”.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL08 SLD 2/3 Sism. Orizz. 1	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLD 2/3 Sism. Orizz. 2	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell’involuppo “~SL08 SLD 2/3”

Descrizione involuppo “~SL08 SLD 2/3 Sism. Orizz. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-1	1
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-1	1
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-0.3	0.3

Descrizione involuppo “~SL08 SLD 2/3 Sism. Orizz. 2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-1	1

5.1.2 Verifiche S.L.U. acciaio

Significato dei parametri:

Ver: assume il seguente significato:

1 involuppo che determina lo sforzo normale massimo negativo

- 2 inviluppo che determina lo sforzo normale massimo positivo
- 3 inviluppo che determina il taglio 1-2 massimo negativo
- 4 inviluppo che determina il taglio 1-2 massimo positivo
- 5 inviluppo che determina il taglio 1-3 massimo negativo
- 6 inviluppo che determina il taglio 1-3 massimo positivo
- 7 inviluppo che determina il momento torcente massimo negativo
- 8 inviluppo che determina il momento torcente massimo positivo
- 9 inviluppo che determina il momento flettente 1-2 massimo negativo
- 10 inviluppo che determina il momento flettente 1-2 massimo positivo
- 11 inviluppo che determina il momento flettente 1-3 massimo negativo
- 12 inviluppo che determina il momento flettente 1-3 massimo positivo
- 17 inviluppo che determina S1 massimo negativo
- 18 inviluppo che determina S1 massimo positivo
- 19 inviluppo che determina S2 massimo negativo
- 20 inviluppo che determina S2 massimo positivo
- 21 inviluppo che determina S3 massimo negativo
- 22 inviluppo che determina S3 massimo positivo
- 23 inviluppo che determina S4 massimo negativo
- 24 inviluppo che determina S4 massimo positivo

I simboli S1, S2, S3, S4 indicano la “sigma combinata” e si riferiscono al calcolo della tensione fittizia valutata in ipotesi di linearità del comportamento del materiale e resistenza indefinita, la cui massimizzazione individua la più probabile verifica peggiore a pressoflessione, valutata con la formula (sigma positiva indica trazione)

$$\sigma_{id} = \frac{N}{A} \pm \frac{M_{12}}{W_{12}} \pm \frac{M_{13}}{W_{13}}$$

(W sono i moduli di resistenza) sui quattro spigoli del rettangolo ideale con moduli di resistenza pari a quelli della sezione base dell’asta.

Dist: indica la distanza dal punto di inizio beam della sezione verificata

Sollecitazioni di verifica:

- N = sforzo normale agente in direzione dell’asse locale 1
- V₁₂, V₁₃ = tagli agenti in direzione 2 e 3
- M₁₂, M₁₃ = momenti agenti nei piani 12 e 13
- MT = momento torcente

Le verifiche di resistenza e instabilità seguono le indicazioni per il calcolo agli stati limite ultimi poste in 4.2 DM14/01/2008 e cap.6 EN1993-1-1:2005.

In base alla classe della sezione (par.4.2.3.1 DM2008) si adotta la seguente metodologia di verifica:

- Sezioni compatte: Classi 1-2, verifica plastica
- Sezioni moderatamente snelle: Classe 3, verifica elastica
- Sezioni snelle: Classe 4, non verificate; possono essere forzate ad essere considerate come sezioni di classe 3, con conseguente verifica elastica.

Le sezioni snelle sono soggette a fenomeni di imbozzamento locali, pertanto devono essere effettuate analisi locali sui singoli elementi costituenti la sezione (EN 1993-1-5), tali verifiche non sono eseguite in automatico da CMP.

VERIFICHE DI RESISTENZA:

- ArmNMT = indica il tratto di armatura interessato dalla verifica di resistenza a pressoflessione deviata, taglio e torsione
- CoeffRes = coeff. di sfruttamento di resistenza pari, per le classi 1 e 2, al massimo tra CoeffMN, CoeffV e CoeffT, mentre per le classi 3 e 4 è calcolato come rapporto tensionale elastico (eq.4.2.5 par.4.2.4.1.2 DM2008 e par.6.2.1(5) EC3).
- CoeffMN = coeff. di sfruttamento di resistenza a pressoflessione deviata (par.4.2.4.1.2 DM2008 e par.6.2.1(5,7) EC3))
- CoeffV = coeff. di sfruttamento di resistenza a taglio (par.4.2.4.1.2 DM2008 e par.6.2.6 EC3); le verifiche di resistenza al taglio sono differenziate tra il caso di sezioni di classe 1 e 2, per le quali coeffV è calcolato come la somma del rapporto tra taglio agente e resistente in direzione 2 e 3, e le sezioni di classe 3 e 4, per le quali coeffV è calcolato come rapporto tensionale.
- CoeffT = coefficiente di sfruttamento di resistenza a torsione (par. 4.2.4.1.2 DM2008 e par.6.2.7 EC3)
- Classe = classificazione della sezione (par.4.2.3.1 DM2008)

Un asterisco a fianco di un record individua le verifiche non soddisfatte (CoeffMN>1, CoeffV>1, CoeffT>1)

VERIFICHE DI INSTABILITA':

Per le verifiche di instabilità si usa sempre la sezione base.

- CoeffN = coefficiente di sfruttamento d'instabilità a compressione (par.4.2.4.1.3.1 DM2008 e par.6.3.1 EC3)
- CoeffNM12, CoeffNM13 = coefficiente di sfruttamento d'instabilità flessotorsionale piano 12 e 13 (par.4.2.4.1.3.2 DM2008 ed eq.6.61 e 6.62 par.6.3.3 EC3); per i fattori di interazione viene applicato l'Annex B dell'EC3.
- Classe = classificazione della sezione (par.4.2.3.1 DM2008)
- Lrif = lunghezza di riferimento per le verifiche di instabilità su cui si valuta la forma del diagramma del momento sia per il piano di sbandamento 12 e sia 13.

Per il momento M_{cr} del par.4.2.4.1.3.2 DM2008 (e par.6.3 EC3), poiché non è specificato come calcolarlo, si è adottato il metodo del par.4.3 del BS 5950-1:2000.

Un asterisco a fianco di un record individua le verifiche non soddisfatte (CoeffN>1, CoeffNM12>1, CoeffNM13>1)

5.1.2.1 Verifica di Resistenza “~PressoFless.Acciaio SLU”

Tipo Verifica: verifiche allo stato limite ultimo secondo il DM 14/01/2008.

Origine del sistema di riferimento delle sollecitazioni: nel baricentro della sezione base omogenizzata;

Set Inviluppo di Verifica utilizzato: “~SL08”

Gli inviluppi con i quali agisce la verifica sono:

- ~SL08 STR SLV Sism. Vert.

- ~SL08 STR SLV

Gruppo di Selezione su cui agisce la verifica: ~ACCIAIO

Resistenza materiali per sezioni di Classe 1-2-3-4 per verifiche SLU (t = spessore sezione)

ID Materiale	Nome materiale	fy (t<40mm) (N/mm²)	fy (t>40mm) (N/mm²)	γ _{M0}
n.29	S 275	275	255	1.05

Il CoeffV, per le sezioni di classe 1 e 2 e differenti da tubolari e a doppio T è valutato anche con il rapporto tensionale tangenziale elastico.

Unità di misura lunghezze: m

Unità di misura sforzi Normali e Tagli: kN

Unità di misura dei Momenti: kNm

Unità di misura delle Tensioni: N/mm²

Beam n.11 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffMN:								
22	0.00	-5.74	-1.71	1.67	1.27	-0.25	-0.00	0
	0.2304	0.2304	0.0359	0.0069	1			
Massimo CoeffRes:								
22	0.00	-5.74	-1.71	1.67	1.27	-0.25	-0.00	0
	0.2304	0.2304	0.0359	0.0069	1			

Beam n.15 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffV:								
6	0.00	-13.50	2.78	1.53	-0.34	-0.22	0.00	0
	0.0974	0.0974	0.0427	0.0018	1			

Beam n.111 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffT:								
7	0.00	-0.36	0.00	-0.02	-0.05	0.00	-0.02	0
	0.0229	0.0091	0.0229	0.0228	1			

5.1.2.2 Verifica di Instabilità “~PressoFless.Acciaio SLU”

Origine del sistema di riferimento delle sollecitazioni: nel baricentro della sezione base omogenizzata;

Set Inviluppo di Verifica utilizzato: “~SL08”

Gli inviluppi con i quali agisce la verifica sono:

- ~SL08 STR SLV Sism. Vert.

- ~SL08 STR SLV

Gruppo di Selezione su cui agisce la verifica: ~**ACCIAIO**

Resistenza materiali per instabilità delle membrature a SLU (con t spessore sezione)

ID Materiale	Nome materiale	f_y (t<40mm) (N/mm ²)	f_y (t>40mm) (N/mm ²)	γ_{M1}
n.29	S 275	275	255	1.05

Unità di misura lunghezze: m

Unità di misura sforzi Normali e Tagli: kN

Unità di misura dei Momenti: kNm

Unità di misura delle Tensioni: N/mm²

Beam n.7 - Sezione “U [UPN 120]”

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva c

Lunghezza di riferimento dell'asta LRif: 337 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World–EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta “(A)”:

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	337 cm	20 cm	20 cm
Lunghezze libere di inflessione	337 cm	20 cm	20 cm
Ritegno per lo sbandamento inizio Beam (nodo 7)	presente (A)	presente (A)	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 28)	assente (A)	presente (A)	presente (A)

Snellezza sbandamento piano 12: 211.705

Snellezza sbandamento piano 13: 4.31865

ATTENZIONE : Snellezza oltre il limite: $snell. = 211.705$, $lim. = 200$

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffN:								
1	0.10	-11.68	0.21	-0.23	0.1895	0.0570	0.2423	1

Beam n.10 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva c

Lunghezza di riferimento dell'asta LRif: 337 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World-EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	337 cm	20 cm	20 cm
Lunghezze libere di inflessione	337 cm	20 cm	20 cm
Ritegno per lo sbandamento inizio Beam (nodo 10)	presente (A)	presente (A)	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 43)	assente (A)	presente (A)	presente (A)

Snellezza sbandamento piano 12: 211.705

Snellezza sbandamento piano 13: 4.31865

ATTENZIONE : Snellezza oltre il limite: snell. = 211.705, lim.= 200

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffNM13:								
1	0.10	-7.93	1.25	0.05	0.1286	0.1548	0.3575	1
Massimo CoeffNM12:								
1	0.10	-7.93	1.25	0.05	0.1286	0.1548	0.3575	1

5.1.2.3 Verifica di Resistenza "PressoFless.Acciaio SLU Ecc"

Tipo Verifica: verifiche allo stato limite ultimo eccezionale secondo il DM 14/01/2008.

Origine del sistema di riferimento delle sollecitazioni: nel baricentro della sezione base omogenizzata;

Set Involuppo di Verifica utilizzato: "~SL08"

Gli involuppi con i quali agisce la verifica sono:

- ~SL08 SLD 2/3 Sism. Vert.

- ~SL08 SLD 2/3

Gruppo di Selezione su cui agisce la verifica: ~ACCIAIO

Resistenza materiali per sezioni di Classe 1-2-3-4 per verifiche SLU (t = spessore sezione)

ID Materiale	Nome materiale	f_y (t<40mm) (N/mm ²)	f_y (t>40mm) (N/mm ²)	γ_{M0}
n.29	S 275	275	255	1.05

Il CoeffV, per le sezioni di classe 1 e 2 e differenti da tubolari e a doppio T è valutato anche con il rapporto tensionale tangenziale elastico.

Unità di misura lunghezze: m

Unità di misura sforzi Normali e Tagli: kN

Unità di misura dei Momenti: kNm

Unità di misura delle Tensioni: N/mm²

Beam n.15 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffV:								
12	0.20	-7.68	1.07	0.88	0.08	0.05	0.00	0
	0.0306	0.0306	0.0179	0.0010	1			

Beam n.132 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffT:								
5	0.00	-0.08	0.05	-0.02	-0.02	0.01	-0.01	0
	0.0172	0.0045	0.0172	0.0166	1			

Beam n.174 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Ver	Dist (m)	N (kN)	V12 (kN)	V13 (kN)	M12 (kNm)	M13 (kNm)	MT (kNm)	ArmNMT
	CoeffRes	CoeffMN	CoeffV	CoeffT	Classe			
Massimo CoeffMN:								
9	0.00	-0.10	0.16	-0.08	-0.65	0.01	-0.00	0
	0.1006	0.1006	0.0069	0.0050	1			
Massimo CoeffRes:								
9	0.00	-0.10	0.16	-0.08	-0.65	0.01	-0.00	0
	0.1006	0.1006	0.0069	0.0050	1			

5.1.2.4 Verifica di Instabilità “~PressoFless.Acciaio SLU Ecc”

Origine del sistema di riferimento delle sollecitazioni: nel baricentro della sezione base omogenizzata;

Set Inviluppo di Verifica utilizzato: “~SL08”

Gli inviluppi con i quali agisce la verifica sono:

- ~SL08 SLD 2/3 Sism. Vert.

- ~SL08 SLD 2/3

Gruppo di Selezione su cui agisce la verifica: ~**ACCIAIO**

Resistenza materiali per instabilità delle membrature a SLU (con t spessore sezione)

ID Materiale	Nome materiale	f_y (t<40mm) (N/mm ²)	f_y (t>40mm) (N/mm ²)	γ_{M1}
n.29	S 275	275	255	1.05

Unità di misura lunghezze: m

Unità di misura sforzi Normali e Tagli: kN

Unità di misura dei Momenti: kNm

Unità di misura delle Tensioni: N/mm²

Beam n.7 - Sezione “U [UPN 120]”

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva c

Lunghezza di riferimento dell'asta LRif: 337 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World–EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta “(A)”:

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	337 cm	20 cm	20 cm
Lunghezze libere di inflessione	337 cm	20 cm	20 cm
Ritegno per lo sbandamento inizio Beam (nodo 7)	presente (A)	presente (A)	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 28)	assente (A)	presente (A)	presente (A)

Snellezza sbandamento piano 12: 211.705

Snellezza sbandamento piano 13: 4.31865

ATTENZIONE : Snellezza oltre il limite: $snell. = 211.705$, $lim. = 200$

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffN:								
1	0.10	-7.33	-0.08	-0.14	0.1133	0.0228	0.1262	1

Beam n.10 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva c

Lunghezza di riferimento dell'asta LRif: 337 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World–EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	337 cm	20 cm	20 cm
Lunghezze libere di inflessione	337 cm	20 cm	20 cm
Ritegno per lo sbandamento inizio Beam (nodo 10)	presente (A)	presente (A)	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 43)	assente (A)	presente (A)	presente (A)

Snellezza sbandamento piano 12: 211.705

Snellezza sbandamento piano 13: 4.31865

ATTENZIONE : Snellezza oltre il limite: snell. = 211.705, lim.= 200

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffNM13:								
1	0.10	-6.19	0.52	0.01	0.0956	0.0674	0.1860	1

Beam n.11 - Sezione "U [UPN 120]"

Coord.punto di applicazione sforzo N (piano locale 2-3): 0 m; 0 m

Riepilogo tratti di armatura sull'asta:

Sezione Base fino a fine asta

Tipo Sezione: Laminato

Parametri per verifica di Stabilità:

Curva instabilità sbandamento piano 12: Sezione in acciaio Curva c

Curva instabilità sbandamento piano 13: Sezione in acciaio Curva c

Lunghezza di riferimento dell'asta LRif: 337 cm

Coefficiente per stabilità distorsionale (solo verifiche Steel World–EN15512) χ_{db} : 1

NOTA: nelle parti del testo dedicate all'indicazione della presenza o meno di ritegni per lo sbandamento, se un ritegno è stato individuato in modo automatico da CMP compare anche la scritta "(A)":

Descrizione	Piano 1-2	Piano 1-3	Svergolamento
Coefficienti di vincolo	1	1	1
Lunghezze effettive aste	337 cm	20 cm	20 cm
Lunghezze libere di inflessione	337 cm	20 cm	20 cm
Ritegno per lo sbandamento inizio Beam (nodo 11)	presente (A)	presente (A)	presente (A)
Ritegno per lo sbandamento fine Beam (nodo 44)	assente (A)	presente (A)	presente (A)

Snellezza sbandamento piano 12: 211.705

Snellezza sbandamento piano 13: 4.31865

ATTENZIONE : Snellezza oltre il limite: snell. = 211.705, lim.= 200

Ver	Dist (m)	N (kN)	M12 (kNm)	M13 (kNm)	CoeffN	CoeffNM12	CoeffNM13	Classe
Massimo CoeffNM12:								
10	0.10	-5.42	0.53	-0.10	0.0838	0.0684	0.1793	1

5.2 VERIFICHE SU ELEMENTI TIPO SHELL

A seguito verranno indicate le VERIFICHE PIÙ GRAVOSE per ogni armatura

5.2.1 Descrizione set involuppi di verifica

Di seguito sono descritti i set involuppi di verifica utilizzati:

DESCRIZIONE SET INVILUPPI DI VERIFICA “~SL08”

E' costituito dai seguenti involuppi:

- Involuppi SLE Combinazione Q.Perm. secondo il DM 14/01/2008

Descrizione Involuppo “~SL08 SLE q.perm.”

Agisce su tutte le entità del modello.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1

- Involuppi SLE Combinazione Frequente secondo il DM 14/01/2008

Descrizione Involuppo “~SL08 SLE freq.”

Agisce su tutte le entità del modello.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL08 SLE freq. 1	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell'involuppo “~SL08 SLE freq.”

Descrizione involuppo “~SL08 SLE freq. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
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CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1

- Involuppi SLE Combinazione Rara secondo il DM 14/01/2008

Descrizione Involuppo “~SL08 SLE caratt.”

Agisce su tutte le entità del modello.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL08 SLE caratt. 1	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell'involuppo “~SL08 SLE caratt.”

Descrizione involuppo “~SL08 SLE caratt. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
-------------------	----------------------	-----------	--------	----------	----------

CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1

- Involuppi S.L.U. secondo il DM 14/01/2008

Gli involuppi con i quali agisce la verifica sono:

- ~SL08 STR SLV Sism. Vert.

- ~SL08 STR SLV

Descrizione Involuppo “~SL08 STR SLV Sism. Vert.”

Agisce sul gruppo di selezione “~~~S 275”.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL08 STR SLV 1	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLU Sism. Vert. 1	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLU Sism. Vert. 2	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLU Sism. Vert. 3	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell'involuppo “~SL08 STR SLV Sism. Vert.”

Descrizione involuppo “~SL08 STR SLV 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
-------------------	----------------------	-----------	--------	----------	----------

CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Variabile		0	1.5

Descrizione involuppo “~SL08 SLU Sism. Vert. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
-------------------	----------------------	-----------	--------	----------	----------

CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-1	1
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-1	1
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 20Dy	Sisma SLV Z	Variabile		-0.3	0.3

Descrizione involuppo “~SL08 SLU Sism. Vert. 2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
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CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-1	1

CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-1	1
CdC elem. 20Dy	Sisma SLV Z	Variabile		-0.3	0.3

Descrizione involuppo “~SL08 SLU Sism. Vert. 3”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 20Dy	Sisma SLV Z	Variabile		-1	1

Descrizione Involuppo “~SL08 STR SLV”

Agisce sul gruppo di selezione “~Wiz.SL08:Tutto - Sism.V”.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL08 STR SLV 1	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLU Sism. Orizz. 1	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLU Sism. Orizz. 2	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell’involuppo “~SL08 STR SLV”

Descrizione involuppo “~SL08 STR SLV 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1.3
CdC elem. 2St	CdC n. 2	Variabile		0	1.5

Descrizione involuppo “~SL08 SLU Sism. Orizz. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-1	1
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-1	1
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-0.3	0.3

Descrizione involuppo “~SL08 SLU Sism. Orizz. 2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 13Dy	Sisma SLV X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 14Dy	Sisma SLV X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 17Dy	Sisma SLV Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 18Dy	Sisma SLV Y Sx	Var.non Contemp.	2	-1	1

- Involuppi S.L.U. Combinazione Eccezionale secondo il DM 14/01/2008

Gli involuppi con i quali agisce la verifica sono:

- ~SL08 SLD 2/3 Sism. Vert.
- ~SL08 SLD 2/3

Descrizione Involuppo “~SL08 SLD 2/3 Sism. Vert.”

Agisce sul gruppo di selezione “~~~S 275”.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL08 SLD 2/3 Sism. Vert. 1	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLD 2/3 Sism. Vert. 2	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLD 2/3 Sism. Vert. 3	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell'involuppo “~SL08 SLD 2/3 Sism. Vert.”

Descrizione involuppo “~SL08 SLD 2/3 Sism. Vert. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-1	1
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-1	1
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 19Dy	Sisma SLD 2/3 Z	Variabile		-0.3	0.3

Descrizione involuppo “~SL08 SLD 2/3 Sism. Vert. 2”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-1	1
CdC elem. 19Dy	Sisma SLD 2/3 Z	Variabile		-0.3	0.3

Descrizione involuppo “~SL08 SLD 2/3 Sism. Vert. 3”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-0.3	0.3
CdC elem. 19Dy	Sisma SLD 2/3 Z	Variabile		-1	1

Descrizione Involuppo “~SL08 SLD 2/3”

Agisce sul gruppo di selezione “~Wiz.SL08:Tutto - Sism.V”.

Condizioni di involuppo automatiche

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
Involuppo	~SL08 SLD 2/3 Sism. Orizz. 1	Perm.non Contemp.	1	1	1
Involuppo	~SL08 SLD 2/3 Sism. Orizz. 2	Perm.non Contemp.	1	1	1

Descrizione degli involuppi contenuti nell'involuppo “~SL08 SLD 2/3”

Descrizione involuppo “~SL08 SLD 2/3 Sism. Orizz. 1”:

n°CdC o Involuppo	Nome CdC o Involuppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-1	1
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-1	1
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-0.3	0.3

CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-0.3	0.3
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Descrizione inviluppo “~SL08 SLD 2/3 Sism. Orizz. 2”:

n°CdC o Inviluppo	Nome CdC o Inviluppo	Tipologia	Gruppo	Molt.Min	Molt.Max
CdC elem. 1St	CdC n. 1	Permanente		1	1
CdC elem. 2St	CdC n. 2	Variabile		1	1
CdC elem. 11Dy	Sisma SLD 2/3 X Dx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 12Dy	Sisma SLD 2/3 X Sx	Var.non Contemp.	1	-0.3	0.3
CdC elem. 15Dy	Sisma SLD 2/3 Y Dx	Var.non Contemp.	2	-1	1
CdC elem. 16Dy	Sisma SLD 2/3 Y Sx	Var.non Contemp.	2	-1	1

5.2.2 Verifiche T.A.-S.L.E.

Significato dei parametri:

- n°Shell = Numero dello shell interessato dalla verifica
- Dir = Direzione locale rispetto cui si esegue la verifica
- Mat = Numero del materiale a cui la verifica fa riferimento
- N = Forza Normale per unità di larghezza di verifica
- M = Momento Flettente per unità di larghezza di verifica
- σ_{\min} = Tensione minima riscontrata per il materiale corrente
- σ_{\max} = Tensione massima riscontrata per il materiale corrente

Nel caso di verifiche di fessurazione, nelle relative tabelle con i risultati delle verifiche, all’inizio di una riga possono comparire uno dei seguenti simboli:

- AM = verifica delle armature minime richieste per il contenimento della fessurazione: $A_{s,min}$ è l’armatura minima richiesta ai sensi della UNI EN 1992-1-1:2005 (§7.3.2), $A_{s,disp}$ è l’armatura disponibile nella zona tesa.
- VF = verifica di formazione delle fessure: σ_{\max} è la massima tensione di trazione (su sezione non fessurata) del materiale di calcestruzzo con ID pari a MatCls. Vengono riportati solo i valori di trazione delle tensioni (se presenti).
- VD = verifica di decompressione: σ_{\max} è la massima tensione di trazione (su sezione non fessurata) del materiale di calcestruzzo con ID pari a MatCls. Vengono riportati solo i valori di trazione delle tensioni (se presenti).
- VA = verifica di apertura delle fessure: verifica di apertura delle fessure: w è l’apertura della fessura. Il gruppo di esigenza ed il valore ammissibile utilizzati sono quelli del materiale calcestruzzo dello shell ed il tipo di armatura (sensibile/poco sensibile) è quello dell’armatura dello shell.

Un asterisco a fianco di un record individua le verifiche non soddisfatte

Per le verifiche a SLE il gruppo di esigenza (livello di aggressività dell’ambiente) utilizzato è riportato nella descrizione delle caratteristiche dei materiali.

5.2.2.1 Verifica Shell di Resistenza “~PressoFless.Acciaio SLE rare”

Tipo Verifica: Stati Limite d’Esercizio (DM 14/01/2008)

Combinazione di Carico: rara

Set Inviluppo di Verifica utilizzato: “~SL08”

Gruppo di Selezione su cui agisce la verifica: ~**ACCIAIO**

Tensioni ammissibili a trazione e compressione dei materiali impiegati:

ID Materiale	Nome materiale	Sigma Amm. Trazione (N/mm ²)	Sigma Amm. Compressione (N/mm ²)
n.29	S 275	0	0

Descrizione Risultati Verifiche

Valori per spessore shell: 1 cm

Armatura di estradosso:

Armatura di intradosso:

Verifiche a tenso-presso flessione semplice:

n°Shell	Dir	Mat	N(kN/m)	M(kNm/m)	$\sigma_{min}(N/mm^2)$	$\sigma_{max}(N/mm^2)$
177	2	29	0.92	-0.11	-6.70	6.88

5.2.2.2 Verifica Shell di Resistenza “~PressoFless.Acciaio SLE q.perm”

Tipo Verifica: Stati Limite d'Esercizio (DM 14/01/2008)

Combinazione di Carico: quasi permanente

Set Inviluppo di Verifica utilizzato: “~SL08”

Gruppo di Selezione su cui agisce la verifica: ~ACCIAIO

Tensioni ammissibili a trazione e compressione dei materiali impiegati:

ID Materiale	Nome materiale	Sigma Amm. Trazione (N/mm ²)	Sigma Amm. Compressione (N/mm ²)
n.29	S 275	0	0

Descrizione Risultati Verifiche

Valori per spessore shell: 1 cm

Armatura di estradosso:

Armatura di intradosso:

Verifiche a tenso-presso flessione semplice:

n°Shell	Dir	Mat	N(kN/m)	M(kNm/m)	$\sigma_{min}(N/mm^2)$	$\sigma_{max}(N/mm^2)$
177	2	29	0.92	-0.11	-6.70	6.88

5.2.2.3 Verifica Shell di “~PressoFless.Acciaio SLE freq.”

Set Inviluppo di Verifica utilizzato: “~SL08”

Gruppo di Selezione su cui agisce la verifica: ~ACCIAIO

Tensioni ammissibili a trazione e compressione dei materiali impiegati:

ID Materiale	Nome materiale	Sigma Amm. Trazione (N/mm ²)	Sigma Amm. Compressione (N/mm ²)
n.29	S 275	0	0

Descrizione Risultati Verifiche

Valori per spessore shell: 1 cm

Armatura di estradosso:

Armatura di intradosso:

5.2.3 Verifiche S.L.U.

5.2.3.1 Verifica Shell di Resistenza “~PressoFless.Acciaio SLU”

Tipo Verifica: SLU (DM 14/01/2008)

Set Inviluppo di Verifica utilizzato: “~SL08”

Gli inviluppi con i quali agisce la verifica sono:

- ~SL08 STR SLV Sism. Vert.

- ~SL08 STR SLV

Gruppo di Selezione su cui agisce la verifica: ~**ACCIAIO**

Resistenza di calcolo a trazione e compressione per SLU:

ID Materiale	Nome materiale	fd a Trazione (N/mm ²)	fd a Compressione (N/mm ²)
n.29	S 275	261.905	261.905

Descrizione Risultati Verifiche

Valori per spessore shell: 1 cm

Armatura di estradosso:

Armatura di intradosso:

n°Shell	Dir	N(kN/m)	M(kNm/m)	CoeffMN
176	2	1.31	0.23	0.05

5.2.3.2 Verifica Shell di Resistenza “~PressoFless.Acciaio SLU Ecc”

Tipo Verifica: SLU eccezionale (DM 14/01/2008)

Set Inviluppo di Verifica utilizzato: “~SL08”

Gli inviluppi con i quali agisce la verifica sono:

- ~SL08 SLD 2/3 Sism. Vert.

- ~SL08 SLD 2/3

Gruppo di Selezione su cui agisce la verifica: ~**ACCIAIO**

Resistenza di calcolo a trazione e compressione per SLU:

ID Materiale	Nome materiale	fd a Trazione (N/mm ²)	fd a Compressione (N/mm ²)
n.29	S 275	275	275

Descrizione Risultati Verifiche

Valori per spessore shell: 1 cm

Armatura di estradosso:

Armatura di intradosso:

n°Shell	Dir	N(kN/m)	M(kNm/m)	CoeffMN
177	2	5.60	-0.14	0.03

5.3 Verifica collegamenti

Le bullonature previste hanno lo scopo di fissare gli elementi in fase di montaggio in quanto una volta eseguite le saldature in opera di fissaggio delle lamiere il tutto risulterà collegato da esse.

Non si riportano le verifiche risultando le unioni evidentemente sovradimensionate ed oggetto di riverifica in sede di progettazione esecutiva, unitamente alla verifica degli ancoraggi al piede, sulla scorta della effettiva configurazione costruttiva che adotterà l'appaltatore.