AMMINISTRAZIONE PROVINCIALE DELL'AQUILA

SETTORE VIABILITA'

Via Saragat Loc. Campo di Pile, 67100 L'Aquila

DIRIGENTE DEL SETTORE Ing. Nicolino D'Amico

Fondo di Sviluppo e Coesione 2021-2027 *Delibera CIPESS n. 15 del 23/04/2024 - Accordo per la Coesione Governo - Regione Abruzzo.* **INTERVENTI DI MESSA IN SICUREZZA E DI ADEGUAMENTO FUNZIONALE DELLE STRADE PROVINCIALI.**

CUP : F37H24000030001

I Progettisti :

BRANDI SOCIETÀ D'INGEGNERIA
(mandataria)
Ing. Roberto Brandi

TECNOSOIL ENGINEERING s.r.l.
(mandante)
Geol. Eustachio Pietromartire

GEOCART PROFESSIONAL SERVICE S.R.L.
(mandante)
Geom. Nicola Mantini

LIMES SOCIETA' COOPERATIVA
(mandante)
Archeol. Hermann Borghesi

STUDIO TECNICO ING. TARABORRELLI B.
(mandante)
Ing. Taraborrelli Bellafronte Angelo

STUDIO TECNICO AGRONOMICO DOTT. NICOLA TAVANO *(mandante)*
Dott. Nicola Tavano

"ORANGES & DI CARMINE ASSOCIATI"
(mandante)
Arch. Maurizio Oranges

SGAI S.R.L. di E. Forlani & C.
(ausiliaria)
Ing. Andrea Forlani

Il Responsabile del Progetto:
Ing. Ghizzoni Angela

Approvazioni:

PROGETTO ESECUTIVO (D.Lgs. 36/2023 - All. I-7)

C - ELABORATI SPECIALISTICI

SUB-INTERVENTO 1.1 - SP86 DEL VASTO

Tavola/Allegato	*C5*	**Fascicolo dei calcoli paratia di micropali**			
Codice commessa	*T2502*	*Data di emissione* *Dicembre 2025*	*Rev* *01*	*Scala*	*Formato* *doc*
Codice elaborato	*ES5*	*Redatto* *Pietromartire L.*	*Controllato* *Pietromartire L.*	*Approvato* *Brandi R.*	

Data	*Operatore*	*Descrizione*
Dicembre 2025	*Brandi R.*	*Revisione*
Novembre 2025	*Brandi R.*	*Emissione Progetto Esecutivo*

PRO_SAP

PROfessional Structural Analysis Program

Relazione di calcolo strutturale impostata e redatta secondo le modalità previste nel D.M. 17 Gennaio 2018 cap. 10 “Redazione dei progetti strutturali esecutivi e delle relazioni di calcolo”.

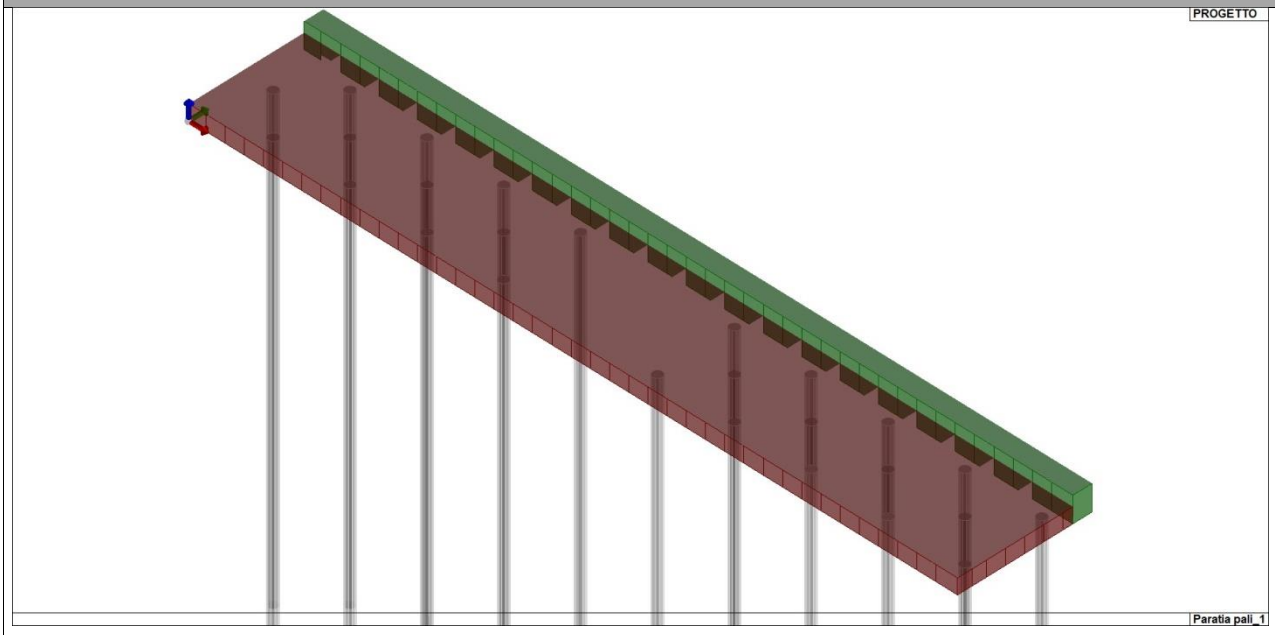
Origine e Caratteristiche dei Codici di Calcolo	
Codice di calcolo:	PRO_SAP PROfessional Structural Analysis Program
Versione:	PROFESSIONAL (build 2025-05-203)
Produttore- Distributore:	2S.I. Software e Servizi per l’Ingegneria s.r.l. Via Garibaldi, 90 44121 Ferrara FE (Italy) Tel. +39 0532 200091 www.2si.it
Codice Licenza:	Licenza dsi5034

Descrizione	
Progetto	-
	-
Ubicazione	Comune di L'AQUILA (AQ) (Regione ABRUZZO)
	Località L'AQUILA (AQ)
	Longitudine 13.396, Latitudine 42.356
Progettista	-

In merito al punto 10.2 delle Norme Tecniche per le Costruzioni (*Affidabilità dei codici utilizzati*), si fa riferimento al **Documento di Affidabilità** “Test di validazione del software di calcolo PRO_SAP e dei moduli aggiuntivi PRO_SAP Modulo Geotecnico, PRO_CAD nodi acciaio e PRO_MST” disponibile per il download sul sito: https://www.2si.it/it/prodotti/affidabilita/

INTESTAZIONE E CONTENUTI DELLA RELAZIONE

PROGETTO



Contenuti della relazione:

RELAZIONE DI CALCOLO STRUTTURALE

- Origine e Caratteristiche dei Codici di Calcolo

- Affidabilità dei codici utilizzati

- Validazione dei codici

- Tipo di analisi svolta

- Modalità di presentazione dei risultati

- Informazioni generali sull'elaborazione

- Giudizio motivato di accettabilità dei risultati

STAMPA DEI DATI DI INGRESSO

- Normative prese a riferimento

- Criteri adottati per le misure di sicurezza

- Criteri seguiti nella schematizzazione della struttura, dei vincoli e delle sconessioni

- Interazione tra terreno e struttura

- Legami costitutivi adottati per la modellazione dei materiali e dei terreni

- Schematizzazione delle azioni, condizioni e combinazioni di carico

- Metodologie numeriche utilizzate per l' analisi strutturale

-Metodologie numeriche utilizzate per la progettazione e la verifica degli elementi strutturali

STAMPA DEI RISULTATI

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CARATTERISTICHE MATERIALI UTILIZZATI

LEGENDA TABELLA DATI MATERIALI

Il programma consente l'uso di materiali diversi. Sono previsti i seguenti tipi di materiale:

1	materiale tipo c.a.
2	materiale tipo acciaio
3	materiale tipo muratura
4	materiale tipo legno
5	materiale tipo generico

I materiali utilizzati nella modellazione sono individuati da una sigla identificativa nella quale viene indicato se la tipologia è <NUOVO> o <ESISTENTE>. Per ogni materiale è presente un codice numerico **Id** (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). I seguenti dati sono comuni a tutte le tipologie di materiali:

Modulo E	Modulo di elasticità normale E
Poisson	Coefficiente di contrazione trasversale ni
Modulo G	Modulo di elasticità tangenziale
Gamma	Peso specifico
Alfa	Coefficiente di dilatazione termica
Fattore di confidenza FC m	Fattore di confidenza specifico per materiale (solo per materiali esistenti)
Fattore di confidenza FC a	Fattore di confidenza specifico per l'armatura (solo per materiali esistenti)
Elasto-plastico	Materiale elastico perfettamente plastico per aste non lineari
Massima compressione	Massima tensione di compressione per aste non lineari
Massima trazione	Massima tensione di trazione per aste non lineari
Fattore attrito	Coefficiente di attrito per aste non lineari
Rapporto HRDb	Rapporto di hardening a flessione
Rapporto HRDv	Rapporto di hardening a taglio

I dati soprariportati vengono utilizzati per la modellazione dello schema statico e per la determinazione dei carichi inerziali e termici. In relazione al tipo di materiale vengono riportati inoltre:

C.A.	Resistenza Rc	Resistenza a compressione cubica
	Resistenza fctm	Resistenza media a trazione semplice
	Rapporto Rfess (assiale)	Fattore riduttivo per la rigidezza fessurata assiale in analisi sismica
	Rapporto Rfess (flessione)	Fattore riduttivo per la rigidezza fessurata flessionale in analisi sismica
	Rapporto Rfess (taglio)	Fattore riduttivo per la rigidezza fessurata tagliante in analisi sismica
	Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress-block

Acciaio	Tensione ft	Valore della tensione di rottura
	Tensione fy	Valore della tensione di snervamento
	Resistenza fd	Resistenza di calcolo per SL CNR-UNI 10011
	Resistenza fd (>40)	Resistenza di calcolo per SL CNR-UNI 10011 per spessori > 40mm
	Tensione ammissibile	Tensione ammissibile CNR-UNI 10011
	Tensione ammissibile (>40)	Tensione ammissibile CNR-UNI 10011 per spessori > 40mm

Muratura	Muratura consolidata	Muratura esistente per la quale si prevedono interventi di rinforzo

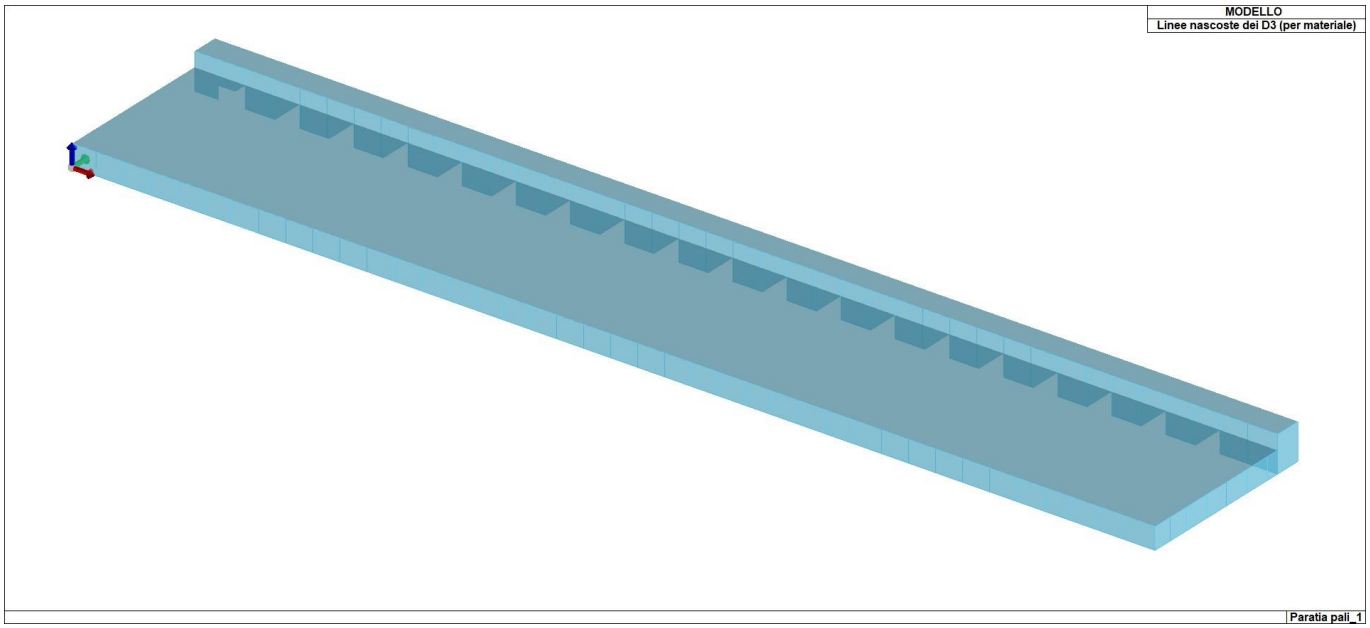
		tramite fattori correttivi (Tabella C.8.5.II circolare 21/01/2019)
	Incremento resistenza (f)	Incremento conseguito in termini di resistenza a compressione
	Incremento rigidezza (v)	Incremento conseguito in termini di resistenza a taglio
	Incremento rigidezza	Incremento conseguito in termini di rigidezza
	Resistenza f	Valore della resistenza a compressione
	Resistenza fh	Valore della resistenza a compressione orizzontale
	Resistenza fv0	Valore della resistenza a taglio in assenza di tensioni normali
	Resistenza fv0h	Valore della resistenza a taglio in assenza di tensioni normali (per elementi trave)
	Resistenza tau0	Valore della resistenza a taglio per fessurazione diagonale
	Resistenza fvlim	Valore della massima resistenza a taglio
	Resistenza fb	Valore della resistenza a compressione dei blocchi
	Resistenza fbh	Valore della resistenza a compressione dei blocchi in direzione orizzontale
	Resistenza fbt	Valore della resistenza a trazione dei blocchi
	Rapporto Rfess (assiale)	Fattore riduttivo per la rigidezza fessurata assiale in analisi sismica
	Rapporto Rfess (flessione)	Fattore riduttivo per la rigidezza fessurata flessionale in analisi sismica
	Rapporto Rfess (taglio)	Fattore riduttivo per la rigidezza fessurata tagliante in analisi sismica
	Coefficiente ksb	Coefficiente di riduzione della resistenza a compressione da utilizzare nello stress-block
	Coefficiente mu tilda	Coefficiente d'attrito equivalente utilizzato per la resistenza a taglio
	Coefficiente fi	Coefficiente d'ingranamento utilizzato per la resistenza a taglio

Legno	Modulo E0,05	Modulo elastico parallelo
	Lamellare	Indica se il legno è di tipo lamellare o massiccio
	Resistenza fc0	Valore della resistenza a compressione parallela
	Resistenza ft0	Valore della resistenza a trazione parallela
	Resistenza fm	Valore della resistenza a flessione
	Resistenza fv	Valore della resistenza a taglio
	Incremento dinamico	Fattore moltiplicativo dei moduli elastici per analisi sismiche

Nel tabulato si riportano sia i valori caratteristici che medi utilizzando gli uni e/o gli altri in relazione alle richieste di normativa ed alla tipologia di verifica. (Cap.7 NTC18 per materiali nuovi, Cap.8 NTC18 e relativa circolare 21/01/2019 per materiali esistenti, Linee Guida Reluis per incamiciatura CAM, CNR-DT 200 per interventi con FRP)

Vengono inoltre riportate le tabelle contenenti il riassunto delle informazioni assegnate nei criteri di progetto in uso.

Id	Tipo / Note	V. caratt.	V. medio	Young	Poisson	G	Gamma	Alfa	Altri
		daN/cm2	daN/cm2	daN/cm2		daN/cm2	daN/cm3		
5	Calcestruzzo Classe C32/40			3.364e+05	0.20	1.402e+05	2.50e-03	1.00e-05	
	Resistenza Rc	400.0							
	Resistenza fctm		31.0						
	Rapporto Rfessurata (assiale)								1.00
	Rapporto Rfessurata (flessione)								1.00
	Rapporto Rfessurata (taglio)								1.00
	Coefficiente ksb								0.85
	Rapporto HRDb								1.00e-05
	Rapporto HRDv								1.00e-05



11_MOD_MATERIALI_D3

Gusci c.a.	1/7/..	2/8/..	3/9/..	4/10/..	5/11/..	6/12/..
Armatura						
Inclinazione Ax [gradi]	0.0	0.0				
Angolo Ax-Ay [gradi]	90.00	90.00				
Minima tesa	0.31	0.10				
Massima tesa	0.78	4.00				
Maglia unica centrale	NO	NO				
Copriferro [cm]	2.00	3.00				
Maglia x						
diametro	16	16				
passo	20	20				
diametro aggiuntivi	12	16				
Maglia y						
diametro	16	16				
passo	20	20				
diametro aggiuntivi	12	16				
Stati limite ultimi						
Tensione fy [daN/cm2]	4500.00	4500.00				
Tipo acciaio	tipo C	tipo C				
Coefficiente gamma s	1.15	1.15				
Coefficiente gamma c	1.50	1.50				
Verifiche con N costante	SI	SI				
Applica SLU da DIN	NO	NO				
Tensioni ammissibili						
Tensione amm. cls [daN/cm2]	97.50	97.50				
Tensione amm. acciaio [daN/cm2]	2600.00	2600.00				
Rapporto omogeneizzazione N	15.00	15.00				
Massimo rapporto area compressa/tesa	1.00	1.00				
Resistenza al fuoco						
3- intradosso	NO	NO				
3+ estradosso	NO	NO				
Tempo di esposizione R	15	15				

MODELLAZIONE DELLE SEZIONI

LEGENDA TABELLA DATI SEZIONI

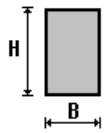
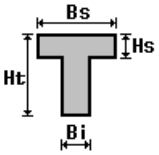
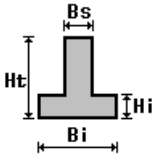
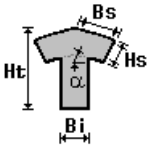
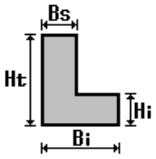
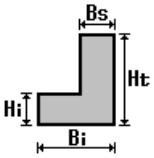
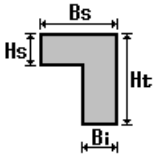
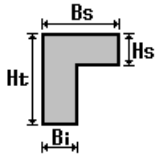
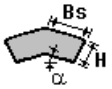
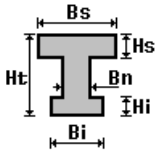
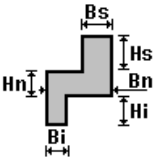
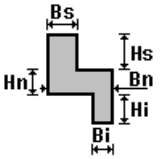
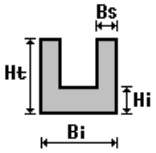
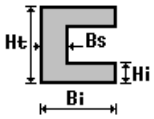
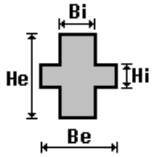
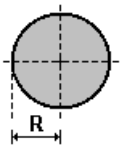
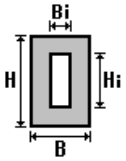
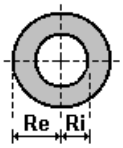
Il programma consente l'uso di sezioni diverse. Sono previsti i seguenti tipi di sezione:

1. sezione di tipo generico
2. profilati semplici
3. profilati accoppiati e speciali

Le sezioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni sezione vengono riportati in tabella i seguenti dati:

Area	area della sezione
A V2	area della sezione/fattore di taglio (per il taglio in direzione 2)
A V3	area della sezione/fattore di taglio (per il taglio in direzione 3)
Jt	fattore torsionale di rigidezza
J2-2	momento d'inerzia della sezione riferito all'asse 2
J3-3	momento d'inerzia della sezione riferito all'asse 3
W2-2	modulo di resistenza della sezione riferito all'asse 2
W3-3	modulo di resistenza della sezione riferito all'asse 3
Wp2-2	modulo di resistenza plastico della sezione riferito all'asse 2
Wp3-3	modulo di resistenza plastico della sezione riferito all'asse 3

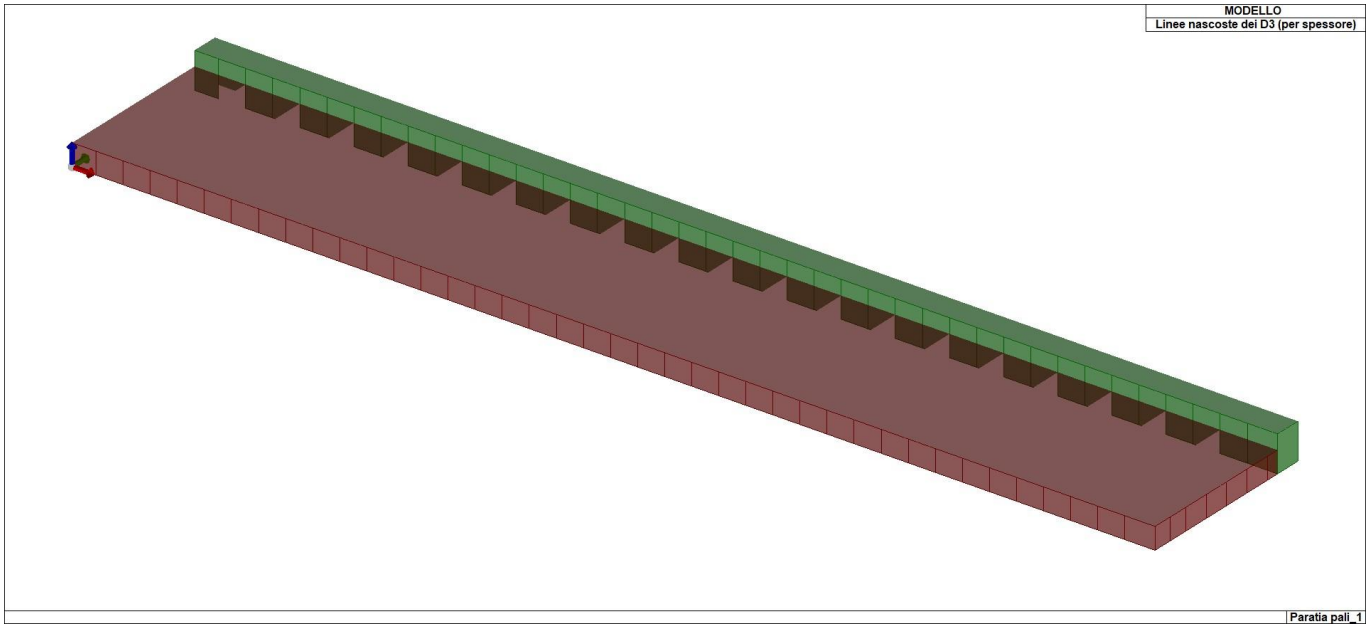
I dati sopra riportati vengono utilizzati per la determinazione dei carichi inerziali e per la definizione delle rigidezze degli elementi strutturali; qualora il valore di Area V2 (e/o Area V3) sia nullo la deformabilità per taglio V2 (e/o V3) è trascurata. La valutazione delle caratteristiche inerziali delle sezioni è condotta nel riferimento 2-3 dell'elemento.

 rettangolare	 a T	 a T rovescia	 a T di colmo	 a L	 a L specchiata
 a L specchiata rovescia	 a L rovescia	 a L di colmo	 a doppio T	 a quattro specchiata	 a quattro
 a U	 a C	 a croce	 circolare	 rettangolare cava	 circolare cava

Per quanto concerne i profilati semplici ed accoppiati l’asse 2 del riferimento coincide con l’asse x riportato nei più diffusi profilatari.

Per quanto concerne le sezioni di tipo generico (tipo 1.):
i valori dimensionali con prefisso B sono riferiti all’asse 2
i valori dimensionali con prefisso H sono riferiti all’asse 3

Id	Tipo	Area	A V2	A V3	Jt	J 2-2	J 3-3	W 2-2	W 3-3	Wp 2-2	Wp 3-3
		cm2	cm2	cm2	cm4	cm4	cm4	cm3	cm3	cm3	cm3



13_MOD_SPESSORI_D3

MODELLAZIONE STRUTTURA: NODI

LEGENDA TABELLA DATI NODI

Il programma utilizza per la modellazione nodi strutturali.
Ogni nodo è individuato dalle coordinate cartesiane nel sistema di riferimento globale (X Y Z).
Ad ogni nodo è eventualmente associato un codice di vincolamento rigido, un codice di fondazione speciale, ed un set di sei molle (tre per le traslazioni, tre per le rotazioni). Le tabelle sottoriportate riflettono le succitate possibilità. In particolare per ogni nodo viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z

Per i nodi ai quali sia associato un codice di vincolamento rigido, un codice di fondazione speciale o un set di molle viene indicato in tabella:

Nodo	numero del nodo.
X	valore della coordinata X
Y	valore della coordinata Y
Z	valore della coordinata Z
Note	eventuale codice di vincolo (es. v=110010 sei valori relativi ai sei gradi di libertà previsti per il nodo TxTyTzRxRyRz, il valore 1 indica che lo spostamento o rotazione relativo è impedito, il valore 0 indica che lo spostamento o rotazione relativo è libero).
Note	(FS = 1, 2,…) eventuale codice del tipo di fondazione speciale (1, 2,… fanno riferimento alle tipologie: plinto, palo, plinto su pali,…) che è collegato al nodo. (ISO = "id SIGLA") indice e sigla identificativa dell' eventuale isolatore sismico assegnato al nodo
Rig. TX	valore della rigidezza dei vincoli elastici eventualmente applicati al nodo, nello specifico TX (idem per TY, TZ, RX, RY, RZ).

Per strutture sismicamente isolate viene inoltre inserita la tabella delle caratteristiche per gli isolatori utilizzati; le caratteristiche sono indicate in conformità al cap. 7.10 del D.M. 17/01/18

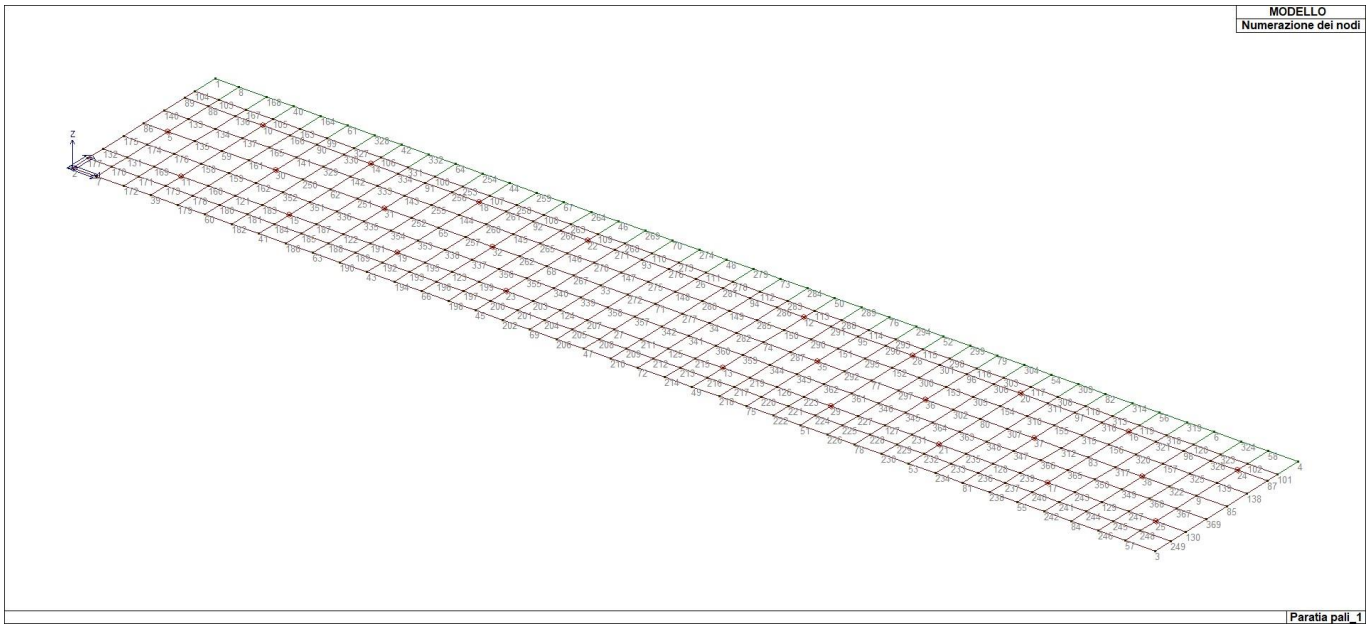
TABELLA DATI NODI

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
	cm	cm	cm		cm	cm	cm		cm	cm	cm
1	0.0	350.0	0.0	2	0.0	0.0	0.0	3	2000.0	0.0	0.0
4	2000.0	350.0	0.0	6	1844.3	350.0	0.0	7	44.3	0.0	0.0
8	44.3	350.0	0.0	9	1944.3	175.0	0.0	26	944.3	275.0	0.0
27	944.3	75.0	0.0	33	844.3	175.0	0.0	34	1044.3	175.0	0.0
39	144.3	0.0	0.0	40	144.3	350.0	0.0	41	344.3	0.0	0.0
42	344.3	350.0	0.0	43	544.3	0.0	0.0	44	544.3	350.0	0.0
45	744.3	0.0	0.0	46	744.3	350.0	0.0	47	944.3	0.0	0.0
48	944.3	350.0	0.0	49	1144.3	0.0	0.0	50	1144.3	350.0	0.0
51	1344.3	0.0	0.0	52	1344.3	350.0	0.0	53	1544.3	0.0	0.0
54	1544.3	350.0	0.0	55	1744.3	0.0	0.0	56	1744.3	350.0	0.0
57	1944.3	0.0	0.0	58	1944.3	350.0	0.0	59	144.3	175.0	0.0
60	244.3	0.0	0.0	61	244.3	350.0	0.0	62	344.3	175.0	0.0
63	444.3	0.0	0.0	64	444.3	350.0	0.0	65	544.3	175.0	0.0
66	644.3	0.0	0.0	67	644.3	350.0	0.0	68	744.3	175.0	0.0
69	844.3	0.0	0.0	70	844.3	350.0	0.0	71	944.3	175.0	0.0
72	1044.3	0.0	0.0	73	1044.3	350.0	0.0	74	1144.3	175.0	0.0
75	1244.3	0.0	0.0	76	1244.3	350.0	0.0	77	1344.3	175.0	0.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
78	1444.3	0.0	0.0	79	1444.3	350.0	0.0	80	1544.3	175.0	0.0
81	1644.3	0.0	0.0	82	1644.3	350.0	0.0	83	1744.3	175.0	0.0
84	1844.3	0.0	0.0	85	2000.0	175.0	0.0	86	0.0	175.0	0.0
87	2000.0	275.0	0.0	88	44.3	275.0	0.0	89	0.0	275.0	0.0
90	244.3	275.0	0.0	91	444.3	275.0	0.0	92	644.3	275.0	0.0
93	844.3	275.0	0.0	94	1044.3	275.0	0.0	95	1244.3	275.0	0.0
96	1444.3	275.0	0.0	97	1644.3	275.0	0.0	98	1844.3	275.0	0.0
99	244.3	300.0	0.0	100	444.3	300.0	0.0	101	2000.0	300.0	0.0
102	1944.3	300.0	0.0	103	44.3	300.0	0.0	104	0.0	300.0	0.0
105	144.3	300.0	0.0	106	344.3	300.0	0.0	107	544.3	300.0	0.0
108	644.3	300.0	0.0	109	744.3	300.0	0.0	110	844.3	300.0	0.0
111	944.3	300.0	0.0	112	1044.3	300.0	0.0	113	1144.3	300.0	0.0
114	1244.3	300.0	0.0	115	1344.3	300.0	0.0	116	1444.3	300.0	0.0
117	1544.3	300.0	0.0	118	1644.3	300.0	0.0	119	1744.3	300.0	0.0
120	1844.3	300.0	0.0	121	244.3	75.0	0.0	122	444.3	75.0	0.0
123	644.3	75.0	0.0	124	844.3	75.0	0.0	125	1044.3	75.0	0.0
126	1244.3	75.0	0.0	127	1444.3	75.0	0.0	128	1644.3	75.0	0.0
129	1844.3	75.0	0.0	130	2000.0	75.0	0.0	131	44.3	75.0	0.0
132	0.0	75.0	0.0	133	44.3	225.0	0.0	134	94.3	225.0	0.0
135	94.3	175.0	0.0	136	94.3	275.0	0.0	137	144.3	225.0	0.0
138	2000.0	225.0	0.0	139	1944.3	225.0	0.0	140	0.0	225.0	0.0
141	244.3	225.0	0.0	142	344.3	225.0	0.0	143	444.3	225.0	0.0
144	544.3	225.0	0.0	145	644.3	225.0	0.0	146	744.3	225.0	0.0
147	844.3	225.0	0.0	148	944.3	225.0	0.0	149	1044.3	225.0	0.0
150	1144.3	225.0	0.0	151	1244.3	225.0	0.0	152	1344.3	225.0	0.0
153	1444.3	225.0	0.0	154	1544.3	225.0	0.0	155	1644.3	225.0	0.0
156	1744.3	225.0	0.0	157	1844.3	225.0	0.0	158	144.3	125.0	0.0
159	194.3	125.0	0.0	160	194.3	75.0	0.0	161	194.3	175.0	0.0
162	244.3	125.0	0.0	163	194.3	300.0	0.0	164	194.3	350.0	0.0
165	194.3	225.0	0.0	166	194.3	275.0	0.0	167	94.3	300.0	0.0
168	94.3	350.0	0.0	169	94.3	75.0	0.0	170	44.3	37.5	0.0
171	94.3	37.5	0.0	172	94.3	0.0	0.0	173	144.3	37.5	0.0
174	44.3	125.0	0.0	175	0.0	125.0	0.0	176	94.3	125.0	0.0
177	0.0	37.5	0.0	178	194.3	37.5	0.0	179	194.3	0.0	0.0
180	244.3	37.5	0.0	181	294.3	37.5	0.0	182	294.3	0.0	0.0
183	294.3	75.0	0.0	184	344.3	37.5	0.0	185	394.3	37.5	0.0
186	394.3	0.0	0.0	187	394.3	75.0	0.0	188	444.3	37.5	0.0
189	494.3	37.5	0.0	190	494.3	0.0	0.0	191	494.3	75.0	0.0
192	544.3	37.5	0.0	193	594.3	37.5	0.0	194	594.3	0.0	0.0
195	594.3	75.0	0.0	196	644.3	37.5	0.0	197	694.3	37.5	0.0
198	694.3	0.0	0.0	199	694.3	75.0	0.0	200	744.3	37.5	0.0
201	794.3	37.5	0.0	202	794.3	0.0	0.0	203	794.3	75.0	0.0
204	844.3	37.5	0.0	205	894.3	37.5	0.0	206	894.3	0.0	0.0
207	894.3	75.0	0.0	208	944.3	37.5	0.0	209	994.3	37.5	0.0
210	994.3	0.0	0.0	211	994.3	75.0	0.0	212	1044.3	37.5	0.0
213	1094.3	37.5	0.0	214	1094.3	0.0	0.0	215	1094.3	75.0	0.0
216	1144.3	37.5	0.0	217	1194.3	37.5	0.0	218	1194.3	0.0	0.0
219	1194.3	75.0	0.0	220	1244.3	37.5	0.0	221	1294.3	37.5	0.0
222	1294.3	0.0	0.0	223	1294.3	75.0	0.0	224	1344.3	37.5	0.0
225	1394.3	37.5	0.0	226	1394.3	0.0	0.0	227	1394.3	75.0	0.0
228	1444.3	37.5	0.0	229	1494.3	37.5	0.0	230	1494.3	0.0	0.0
231	1494.3	75.0	0.0	232	1544.3	37.5	0.0	233	1594.3	37.5	0.0
234	1594.3	0.0	0.0	235	1594.3	75.0	0.0	236	1644.3	37.5	0.0
237	1694.3	37.5	0.0	238	1694.3	0.0	0.0	239	1694.3	75.0	0.0
240	1744.3	37.5	0.0	241	1794.3	37.5	0.0	242	1794.3	0.0	0.0
243	1794.3	75.0	0.0	244	1844.3	37.5	0.0	245	1894.3	37.5	0.0
246	1894.3	0.0	0.0	247	1894.3	75.0	0.0	248	1944.3	37.5	0.0
249	2000.0	37.5	0.0	250	294.3	175.0	0.0	251	394.3	175.0	0.0
252	494.3	175.0	0.0	253	494.3	300.0	0.0	254	494.3	350.0	0.0
255	494.3	225.0	0.0	256	494.3	275.0	0.0	257	594.3	175.0	0.0
258	594.3	300.0	0.0	259	594.3	350.0	0.0	260	594.3	225.0	0.0
261	594.3	275.0	0.0	262	694.3	175.0	0.0	263	694.3	300.0	0.0
264	694.3	350.0	0.0	265	694.3	225.0	0.0	266	694.3	275.0	0.0
267	794.3	175.0	0.0	268	794.3	300.0	0.0	269	794.3	350.0	0.0
270	794.3	225.0	0.0	271	794.3	275.0	0.0	272	894.3	175.0	0.0
273	894.3	300.0	0.0	274	894.3	350.0	0.0	275	894.3	225.0	0.0
276	894.3	275.0	0.0	277	994.3	175.0	0.0	278	994.3	300.0	0.0
279	994.3	350.0	0.0	280	994.3	225.0	0.0	281	994.3	275.0	0.0
282	1094.3	175.0	0.0	283	1094.3	300.0	0.0	284	1094.3	350.0	0.0
285	1094.3	225.0	0.0	286	1094.3	275.0	0.0	287	1194.3	175.0	0.0
288	1194.3	300.0	0.0	289	1194.3	350.0	0.0	290	1194.3	225.0	0.0
291	1194.3	275.0	0.0	292	1294.3	175.0	0.0	293	1294.3	300.0	0.0
294	1294.3	350.0	0.0	295	1294.3	225.0	0.0	296	1294.3	275.0	0.0
297	1394.3	175.0	0.0	298	1394.3	300.0	0.0	299	1394.3	350.0	0.0

Nodo	X	Y	Z	Nodo	X	Y	Z	Nodo	X	Y	Z
300	1394.3	225.0	0.0	301	1394.3	275.0	0.0	302	1494.3	175.0	0.0
303	1494.3	300.0	0.0	304	1494.3	350.0	0.0	305	1494.3	225.0	0.0
306	1494.3	275.0	0.0	307	1594.3	175.0	0.0	308	1594.3	300.0	0.0
309	1594.3	350.0	0.0	310	1594.3	225.0	0.0	311	1594.3	275.0	0.0
312	1694.3	175.0	0.0	313	1694.3	300.0	0.0	314	1694.3	350.0	0.0
315	1694.3	225.0	0.0	316	1694.3	275.0	0.0	317	1794.3	175.0	0.0
318	1794.3	300.0	0.0	319	1794.3	350.0	0.0	320	1794.3	225.0	0.0
321	1794.3	275.0	0.0	322	1894.3	175.0	0.0	323	1894.3	300.0	0.0
324	1894.3	350.0	0.0	325	1894.3	225.0	0.0	326	1894.3	275.0	0.0
327	294.3	300.0	0.0	328	294.3	350.0	0.0	329	294.3	225.0	0.0
330	294.3	275.0	0.0	331	394.3	300.0	0.0	332	394.3	350.0	0.0
333	394.3	225.0	0.0	334	394.3	275.0	0.0	335	444.3	125.0	0.0
336	394.3	125.0	0.0	337	644.3	125.0	0.0	338	594.3	125.0	0.0
339	844.3	125.0	0.0	340	794.3	125.0	0.0	341	1044.3	125.0	0.0
342	994.3	125.0	0.0	343	1244.3	125.0	0.0	344	1194.3	125.0	0.0
345	1444.3	125.0	0.0	346	1394.3	125.0	0.0	347	1644.3	125.0	0.0
348	1594.3	125.0	0.0	349	1844.3	125.0	0.0	350	1794.3	125.0	0.0
351	344.3	125.0	0.0	352	294.3	125.0	0.0	353	544.3	125.0	0.0
354	494.3	125.0	0.0	355	744.3	125.0	0.0	356	694.3	125.0	0.0
357	944.3	125.0	0.0	358	894.3	125.0	0.0	359	1144.3	125.0	0.0
360	1094.3	125.0	0.0	361	1344.3	125.0	0.0	362	1294.3	125.0	0.0
363	1544.3	125.0	0.0	364	1494.3	125.0	0.0	365	1744.3	125.0	0.0
366	1694.3	125.0	0.0	367	1944.3	125.0	0.0	368	1894.3	125.0	0.0
369	2000.0	125.0	0.0								

Nodo	X	Y	Z	Note	Rig. TX	Rig. TY	Rig. TZ	Rig. RX	Rig. RY	Rig. RZ
	cm	cm	cm		daN/cm	daN/cm	daN/cm	daN cm/rad	daN cm/rad	daN cm/rad
5	44.3	175.0	0.0	FS=4						
10	144.3	275.0	0.0	FS=4						
11	144.3	75.0	0.0	FS=4						
12	1144.3	275.0	0.0	FS=4						
13	1144.3	75.0	0.0	FS=4						
14	344.3	275.0	0.0	FS=4						
15	344.3	75.0	0.0	FS=4						
16	1744.3	275.0	0.0	FS=4						
17	1744.3	75.0	0.0	FS=4						
18	544.3	275.0	0.0	FS=4						
19	544.3	75.0	0.0	FS=4						
20	1544.3	275.0	0.0	FS=4						
21	1544.3	75.0	0.0	FS=4						
22	744.3	275.0	0.0	FS=4						
23	744.3	75.0	0.0	FS=4						
24	1944.3	275.0	0.0	FS=4						
25	1944.3	75.0	0.0	FS=4						
28	1344.3	275.0	0.0	FS=4						
29	1344.3	75.0	0.0	FS=4						
30	244.3	175.0	0.0	FS=4						
31	444.3	175.0	0.0	FS=4						
32	644.3	175.0	0.0	FS=4						
35	1244.3	175.0	0.0	FS=4						
36	1444.3	175.0	0.0	FS=4						
37	1644.3	175.0	0.0	FS=4						
38	1844.3	175.0	0.0	FS=4						

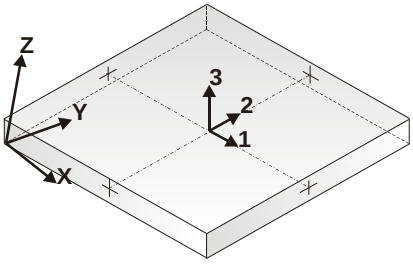


14_MOD_NUMERAZIONE_NODI

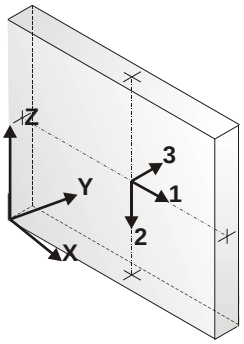
MODELLAZIONE STRUTTURA: ELEMENTI SHELL

LEGENDA TABELLA DATI SHELL

Il programma utilizza per la modellazione elementi a tre o quattro nodi denominati in generale shell.
Ogni elemento shell è individuato dai nodi I, J, K, L (L=I per gli elementi a tre nodi).
Ogni elemento è caratterizzato da un insieme di proprietà riportate in tabella che ne completano la modellazione.



orientamento elementi 3D non verticali



orientamento elementi 3D verticali

In particolare per ogni elemento viene indicato in tabella:

Elem.	numero dell'elemento
Note	codice di comportamento: *Guscio* (elemento guscio in elevazione non verticale) *Guscio fond.* (elemento guscio su suolo elastico) *Setto* (elemento guscio in elevazione verticale) *Membrana* (elemento guscio con comportamento membranale)
Nodo I (J, K, L)	numero del nodo I (J, K, L)
Mat.	codice del materiale assegnato all'elemento
Spessore	spessore dell'elemento (costante)
Wink V	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico verticale
Wink O	costante di sottofondo (coefficiente di Winkler) per la modellazione del suolo elastico orizzontale

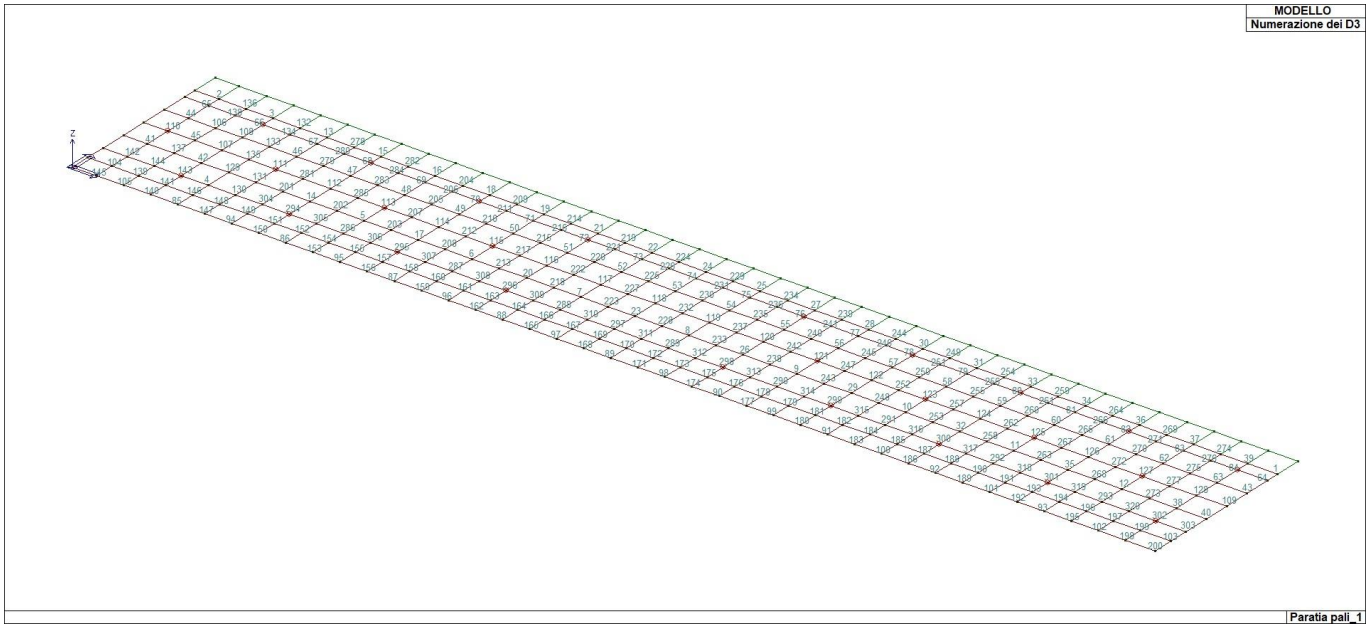
Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
								cm		daN/cm3	daN/cm3
1	Guscio fond.	102	101	4	58	5	2	67.0		1.59	0.97
2	Guscio fond.	104	103	8	1	5	2	67.0		1.59	0.97
3	Guscio fond.	167	105	40	168	5	2	67.0		1.59	0.97
4	Guscio fond.	11	160	159	158	5	2	40.0		0.80	0.49
5	Guscio fond.	336	335	31	251	5	2	40.0		0.80	0.49
6	Guscio fond.	338	337	32	257	5	2	40.0		0.80	0.49
7	Guscio fond.	340	339	33	267	5	2	40.0		0.80	0.49
8	Guscio fond.	342	341	34	277	5	2	40.0		0.80	0.49
9	Guscio fond.	344	343	35	287	5	2	40.0		0.80	0.49
10	Guscio fond.	346	345	36	297	5	2	40.0		0.80	0.49
11	Guscio fond.	348	347	37	307	5	2	40.0		0.80	0.49
12	Guscio fond.	350	349	38	317	5	2	40.0		0.80	0.49
13	Guscio fond.	163	99	61	164	5	2	67.0		1.59	0.97
14	Guscio fond.	352	351	62	250	5	2	40.0		0.80	0.49
15	Guscio fond.	327	106	42	328	5	2	67.0		1.59	0.97
16	Guscio fond.	331	100	64	332	5	2	67.0		1.59	0.97
17	Guscio fond.	354	353	65	252	5	2	40.0		0.80	0.49
18	Guscio fond.	253	107	44	254	5	2	67.0		1.59	0.97
19	Guscio fond.	258	108	67	259	5	2	67.0		1.59	0.97
20	Guscio fond.	356	355	68	262	5	2	40.0		0.80	0.49
21	Guscio fond.	263	109	46	264	5	2	67.0		1.59	0.97
22	Guscio fond.	268	110	70	269	5	2	67.0		1.59	0.97
23	Guscio fond.	358	357	71	272	5	2	40.0		0.80	0.49
24	Guscio fond.	273	111	48	274	5	2	67.0		1.59	0.97
25	Guscio fond.	278	112	73	279	5	2	67.0		1.59	0.97
26	Guscio fond.	360	359	74	282	5	2	40.0		0.80	0.49
27	Guscio fond.	283	113	50	284	5	2	67.0		1.59	0.97
28	Guscio fond.	288	114	76	289	5	2	67.0		1.59	0.97
29	Guscio fond.	362	361	77	292	5	2	40.0		0.80	0.49
30	Guscio fond.	293	115	52	294	5	2	67.0		1.59	0.97
31	Guscio fond.	298	116	79	299	5	2	67.0		1.59	0.97
32	Guscio fond.	364	363	80	302	5	2	40.0		0.80	0.49
33	Guscio fond.	303	117	54	304	5	2	67.0		1.59	0.97
34	Guscio fond.	308	118	82	309	5	2	67.0		1.59	0.97
35	Guscio fond.	366	365	83	312	5	2	40.0		0.80	0.49
36	Guscio fond.	313	119	56	314	5	2	67.0		1.59	0.97
37	Guscio fond.	318	120	6	319	5	2	67.0		1.59	0.97
38	Guscio fond.	368	367	9	322	5	2	40.0		0.80	0.49
39	Guscio fond.	323	102	58	324	5	2	67.0		1.59	0.97
40	Guscio fond.	367	369	85	9	5	2	40.0		0.80	0.49
41	Guscio fond.	175	174	5	86	5	2	40.0		0.80	0.49
42	Guscio fond.	176	158	59	135	5	2	40.0		0.80	0.49
43	Guscio fond.	139	138	87	24	5	2	40.0		0.80	0.49
44	Guscio fond.	140	133	88	89	5	2	40.0		0.80	0.49
45	Guscio fond.	5	135	134	133	5	2	40.0		0.80	0.49
46	Guscio fond.	165	141	90	166	5	2	40.0		0.80	0.49
47	Guscio fond.	329	142	14	330	5	2	40.0		0.80	0.49
48	Guscio fond.	333	143	91	334	5	2	40.0		0.80	0.49
49	Guscio fond.	255	144	18	256	5	2	40.0		0.80	0.49
50	Guscio fond.	260	145	92	261	5	2	40.0		0.80	0.49
51	Guscio fond.	265	146	22	266	5	2	40.0		0.80	0.49
52	Guscio fond.	270	147	93	271	5	2	40.0		0.80	0.49
53	Guscio fond.	275	148	26	276	5	2	40.0		0.80	0.49
54	Guscio fond.	280	149	94	281	5	2	40.0		0.80	0.49
55	Guscio fond.	285	150	12	286	5	2	40.0		0.80	0.49
56	Guscio fond.	290	151	95	291	5	2	40.0		0.80	0.49
57	Guscio fond.	295	152	28	296	5	2	40.0		0.80	0.49
58	Guscio fond.	300	153	96	301	5	2	40.0		0.80	0.49
59	Guscio fond.	305	154	20	306	5	2	40.0		0.80	0.49
60	Guscio fond.	310	155	97	311	5	2	40.0		0.80	0.49
61	Guscio fond.	315	156	16	316	5	2	40.0		0.80	0.49
62	Guscio fond.	320	157	98	321	5	2	40.0		0.80	0.49
63	Guscio fond.	325	139	24	326	5	2	40.0		0.80	0.49
64	Guscio fond.	24	87	101	102	5	2	40.0		0.80	0.49
65	Guscio fond.	89	88	103	104	5	2	40.0		0.80	0.49
66	Guscio fond.	136	10	105	167	5	2	40.0		0.80	0.49
67	Guscio fond.	166	90	99	163	5	2	40.0		0.80	0.49
68	Guscio fond.	330	14	106	327	5	2	40.0		0.80	0.49
69	Guscio fond.	334	91	100	331	5	2	40.0		0.80	0.49
70	Guscio fond.	256	18	107	253	5	2	40.0		0.80	0.49

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
71	Guscio fond.	261	92	108	258	5	2	40.0		0.80	0.49
72	Guscio fond.	266	22	109	263	5	2	40.0		0.80	0.49
73	Guscio fond.	271	93	110	268	5	2	40.0		0.80	0.49
74	Guscio fond.	276	26	111	273	5	2	40.0		0.80	0.49
75	Guscio fond.	281	94	112	278	5	2	40.0		0.80	0.49
76	Guscio fond.	286	12	113	283	5	2	40.0		0.80	0.49
77	Guscio fond.	291	95	114	288	5	2	40.0		0.80	0.49
78	Guscio fond.	296	28	115	293	5	2	40.0		0.80	0.49
79	Guscio fond.	301	96	116	298	5	2	40.0		0.80	0.49
80	Guscio fond.	306	20	117	303	5	2	40.0		0.80	0.49
81	Guscio fond.	311	97	118	308	5	2	40.0		0.80	0.49
82	Guscio fond.	316	16	119	313	5	2	40.0		0.80	0.49
83	Guscio fond.	321	98	120	318	5	2	40.0		0.80	0.49
84	Guscio fond.	326	24	102	323	5	2	40.0		0.80	0.49
85	Guscio fond.	39	179	178	173	5	2	40.0		0.80	0.49
86	Guscio fond.	41	186	185	184	5	2	40.0		0.80	0.49
87	Guscio fond.	43	194	193	192	5	2	40.0		0.80	0.49
88	Guscio fond.	45	202	201	200	5	2	40.0		0.80	0.49
89	Guscio fond.	47	210	209	208	5	2	40.0		0.80	0.49
90	Guscio fond.	49	218	217	216	5	2	40.0		0.80	0.49
91	Guscio fond.	51	226	225	224	5	2	40.0		0.80	0.49
92	Guscio fond.	53	234	233	232	5	2	40.0		0.80	0.49
93	Guscio fond.	55	242	241	240	5	2	40.0		0.80	0.49
94	Guscio fond.	60	182	181	180	5	2	40.0		0.80	0.49
95	Guscio fond.	63	190	189	188	5	2	40.0		0.80	0.49
96	Guscio fond.	66	198	197	196	5	2	40.0		0.80	0.49
97	Guscio fond.	69	206	205	204	5	2	40.0		0.80	0.49
98	Guscio fond.	72	214	213	212	5	2	40.0		0.80	0.49
99	Guscio fond.	75	222	221	220	5	2	40.0		0.80	0.49
100	Guscio fond.	78	230	229	228	5	2	40.0		0.80	0.49
101	Guscio fond.	81	238	237	236	5	2	40.0		0.80	0.49
102	Guscio fond.	84	246	245	244	5	2	40.0		0.80	0.49
103	Guscio fond.	248	249	130	25	5	2	40.0		0.80	0.49
104	Guscio fond.	177	170	131	132	5	2	40.0		0.80	0.49
105	Guscio fond.	7	172	171	170	5	2	40.0		0.80	0.49
106	Guscio fond.	133	134	136	88	5	2	40.0		0.80	0.49
107	Guscio fond.	135	59	137	134	5	2	40.0		0.80	0.49
108	Guscio fond.	134	137	10	136	5	2	40.0		0.80	0.49
109	Guscio fond.	9	85	138	139	5	2	40.0		0.80	0.49
110	Guscio fond.	86	5	133	140	5	2	40.0		0.80	0.49
111	Guscio fond.	161	30	141	165	5	2	40.0		0.80	0.49
112	Guscio fond.	250	62	142	329	5	2	40.0		0.80	0.49
113	Guscio fond.	251	31	143	333	5	2	40.0		0.80	0.49
114	Guscio fond.	252	65	144	255	5	2	40.0		0.80	0.49
115	Guscio fond.	257	32	145	260	5	2	40.0		0.80	0.49
116	Guscio fond.	262	68	146	265	5	2	40.0		0.80	0.49
117	Guscio fond.	267	33	147	270	5	2	40.0		0.80	0.49
118	Guscio fond.	272	71	148	275	5	2	40.0		0.80	0.49
119	Guscio fond.	277	34	149	280	5	2	40.0		0.80	0.49
120	Guscio fond.	282	74	150	285	5	2	40.0		0.80	0.49
121	Guscio fond.	287	35	151	290	5	2	40.0		0.80	0.49
122	Guscio fond.	292	77	152	295	5	2	40.0		0.80	0.49
123	Guscio fond.	297	36	153	300	5	2	40.0		0.80	0.49
124	Guscio fond.	302	80	154	305	5	2	40.0		0.80	0.49
125	Guscio fond.	307	37	155	310	5	2	40.0		0.80	0.49
126	Guscio fond.	312	83	156	315	5	2	40.0		0.80	0.49
127	Guscio fond.	317	38	157	320	5	2	40.0		0.80	0.49
128	Guscio fond.	322	9	139	325	5	2	40.0		0.80	0.49
129	Guscio fond.	158	159	161	59	5	2	40.0		0.80	0.49
130	Guscio fond.	160	121	162	159	5	2	40.0		0.80	0.49
131	Guscio fond.	159	162	30	161	5	2	40.0		0.80	0.49
132	Guscio fond.	105	163	164	40	5	2	67.0		1.59	0.97
133	Guscio fond.	137	165	166	10	5	2	40.0		0.80	0.49
134	Guscio fond.	10	166	163	105	5	2	40.0		0.80	0.49
135	Guscio fond.	59	161	165	137	5	2	40.0		0.80	0.49
136	Guscio fond.	103	167	168	8	5	2	67.0		1.59	0.97
137	Guscio fond.	174	176	135	5	5	2	40.0		0.80	0.49
138	Guscio fond.	88	136	167	103	5	2	40.0		0.80	0.49
139	Guscio fond.	170	171	169	131	5	2	40.0		0.80	0.49
140	Guscio fond.	172	39	173	171	5	2	40.0		0.80	0.49
141	Guscio fond.	171	173	11	169	5	2	40.0		0.80	0.49
142	Guscio fond.	132	131	174	175	5	2	40.0		0.80	0.49
143	Guscio fond.	169	11	158	176	5	2	40.0		0.80	0.49
144	Guscio fond.	131	169	176	174	5	2	40.0		0.80	0.49

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
145	Guscio fond.	2	7	170	177	5	2	40.0		0.80	0.49
146	Guscio fond.	173	178	160	11	5	2	40.0		0.80	0.49
147	Guscio fond.	179	60	180	178	5	2	40.0		0.80	0.49
148	Guscio fond.	178	180	121	160	5	2	40.0		0.80	0.49
149	Guscio fond.	180	181	183	121	5	2	40.0		0.80	0.49
150	Guscio fond.	182	41	184	181	5	2	40.0		0.80	0.49
151	Guscio fond.	181	184	15	183	5	2	40.0		0.80	0.49
152	Guscio fond.	184	185	187	15	5	2	40.0		0.80	0.49
153	Guscio fond.	186	63	188	185	5	2	40.0		0.80	0.49
154	Guscio fond.	185	188	122	187	5	2	40.0		0.80	0.49
155	Guscio fond.	188	189	191	122	5	2	40.0		0.80	0.49
156	Guscio fond.	190	43	192	189	5	2	40.0		0.80	0.49
157	Guscio fond.	189	192	19	191	5	2	40.0		0.80	0.49
158	Guscio fond.	192	193	195	19	5	2	40.0		0.80	0.49
159	Guscio fond.	194	66	196	193	5	2	40.0		0.80	0.49
160	Guscio fond.	193	196	123	195	5	2	40.0		0.80	0.49
161	Guscio fond.	196	197	199	123	5	2	40.0		0.80	0.49
162	Guscio fond.	198	45	200	197	5	2	40.0		0.80	0.49
163	Guscio fond.	197	200	23	199	5	2	40.0		0.80	0.49
164	Guscio fond.	200	201	203	23	5	2	40.0		0.80	0.49
165	Guscio fond.	202	69	204	201	5	2	40.0		0.80	0.49
166	Guscio fond.	201	204	124	203	5	2	40.0		0.80	0.49
167	Guscio fond.	204	205	207	124	5	2	40.0		0.80	0.49
168	Guscio fond.	206	47	208	205	5	2	40.0		0.80	0.49
169	Guscio fond.	205	208	27	207	5	2	40.0		0.80	0.49
170	Guscio fond.	208	209	211	27	5	2	40.0		0.80	0.49
171	Guscio fond.	210	72	212	209	5	2	40.0		0.80	0.49
172	Guscio fond.	209	212	125	211	5	2	40.0		0.80	0.49
173	Guscio fond.	212	213	215	125	5	2	40.0		0.80	0.49
174	Guscio fond.	214	49	216	213	5	2	40.0		0.80	0.49
175	Guscio fond.	213	216	13	215	5	2	40.0		0.80	0.49
176	Guscio fond.	216	217	219	13	5	2	40.0		0.80	0.49
177	Guscio fond.	218	75	220	217	5	2	40.0		0.80	0.49
178	Guscio fond.	217	220	126	219	5	2	40.0		0.80	0.49
179	Guscio fond.	220	221	223	126	5	2	40.0		0.80	0.49
180	Guscio fond.	222	51	224	221	5	2	40.0		0.80	0.49
181	Guscio fond.	221	224	29	223	5	2	40.0		0.80	0.49
182	Guscio fond.	224	225	227	29	5	2	40.0		0.80	0.49
183	Guscio fond.	226	78	228	225	5	2	40.0		0.80	0.49
184	Guscio fond.	225	228	127	227	5	2	40.0		0.80	0.49
185	Guscio fond.	228	229	231	127	5	2	40.0		0.80	0.49
186	Guscio fond.	230	53	232	229	5	2	40.0		0.80	0.49
187	Guscio fond.	229	232	21	231	5	2	40.0		0.80	0.49
188	Guscio fond.	232	233	235	21	5	2	40.0		0.80	0.49
189	Guscio fond.	234	81	236	233	5	2	40.0		0.80	0.49
190	Guscio fond.	233	236	128	235	5	2	40.0		0.80	0.49
191	Guscio fond.	236	237	239	128	5	2	40.0		0.80	0.49
192	Guscio fond.	238	55	240	237	5	2	40.0		0.80	0.49
193	Guscio fond.	237	240	17	239	5	2	40.0		0.80	0.49
194	Guscio fond.	240	241	243	17	5	2	40.0		0.80	0.49
195	Guscio fond.	242	84	244	241	5	2	40.0		0.80	0.49
196	Guscio fond.	241	244	129	243	5	2	40.0		0.80	0.49
197	Guscio fond.	244	245	247	129	5	2	40.0		0.80	0.49
198	Guscio fond.	246	57	248	245	5	2	40.0		0.80	0.49
199	Guscio fond.	245	248	25	247	5	2	40.0		0.80	0.49
200	Guscio fond.	57	3	249	248	5	2	40.0		0.80	0.49
201	Guscio fond.	162	352	250	30	5	2	40.0		0.80	0.49
202	Guscio fond.	351	336	251	62	5	2	40.0		0.80	0.49
203	Guscio fond.	335	354	252	31	5	2	40.0		0.80	0.49
204	Guscio fond.	100	253	254	64	5	2	67.0		1.59	0.97
205	Guscio fond.	143	255	256	91	5	2	40.0		0.80	0.49
206	Guscio fond.	91	256	253	100	5	2	40.0		0.80	0.49
207	Guscio fond.	31	252	255	143	5	2	40.0		0.80	0.49
208	Guscio fond.	353	338	257	65	5	2	40.0		0.80	0.49
209	Guscio fond.	107	258	259	44	5	2	67.0		1.59	0.97
210	Guscio fond.	144	260	261	18	5	2	40.0		0.80	0.49
211	Guscio fond.	18	261	258	107	5	2	40.0		0.80	0.49
212	Guscio fond.	65	257	260	144	5	2	40.0		0.80	0.49
213	Guscio fond.	337	356	262	32	5	2	40.0		0.80	0.49
214	Guscio fond.	108	263	264	67	5	2	67.0		1.59	0.97
215	Guscio fond.	145	265	266	92	5	2	40.0		0.80	0.49
216	Guscio fond.	92	266	263	108	5	2	40.0		0.80	0.49
217	Guscio fond.	32	262	265	145	5	2	40.0		0.80	0.49
218	Guscio fond.	355	340	267	68	5	2	40.0		0.80	0.49

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
219	Guscio fond.	109	268	269	46	5	2	67.0		1.59	0.97
220	Guscio fond.	146	270	271	22	5	2	40.0		0.80	0.49
221	Guscio fond.	22	271	268	109	5	2	40.0		0.80	0.49
222	Guscio fond.	68	267	270	146	5	2	40.0		0.80	0.49
223	Guscio fond.	339	358	272	33	5	2	40.0		0.80	0.49
224	Guscio fond.	110	273	274	70	5	2	67.0		1.59	0.97
225	Guscio fond.	147	275	276	93	5	2	40.0		0.80	0.49
226	Guscio fond.	93	276	273	110	5	2	40.0		0.80	0.49
227	Guscio fond.	33	272	275	147	5	2	40.0		0.80	0.49
228	Guscio fond.	357	342	277	71	5	2	40.0		0.80	0.49
229	Guscio fond.	111	278	279	48	5	2	67.0		1.59	0.97
230	Guscio fond.	148	280	281	26	5	2	40.0		0.80	0.49
231	Guscio fond.	26	281	278	111	5	2	40.0		0.80	0.49
232	Guscio fond.	71	277	280	148	5	2	40.0		0.80	0.49
233	Guscio fond.	341	360	282	34	5	2	40.0		0.80	0.49
234	Guscio fond.	112	283	284	73	5	2	67.0		1.59	0.97
235	Guscio fond.	149	285	286	94	5	2	40.0		0.80	0.49
236	Guscio fond.	94	286	283	112	5	2	40.0		0.80	0.49
237	Guscio fond.	34	282	285	149	5	2	40.0		0.80	0.49
238	Guscio fond.	359	344	287	74	5	2	40.0		0.80	0.49
239	Guscio fond.	113	288	289	50	5	2	67.0		1.59	0.97
240	Guscio fond.	150	290	291	12	5	2	40.0		0.80	0.49
241	Guscio fond.	12	291	288	113	5	2	40.0		0.80	0.49
242	Guscio fond.	74	287	290	150	5	2	40.0		0.80	0.49
243	Guscio fond.	343	362	292	35	5	2	40.0		0.80	0.49
244	Guscio fond.	114	293	294	76	5	2	67.0		1.59	0.97
245	Guscio fond.	151	295	296	95	5	2	40.0		0.80	0.49
246	Guscio fond.	95	296	293	114	5	2	40.0		0.80	0.49
247	Guscio fond.	35	292	295	151	5	2	40.0		0.80	0.49
248	Guscio fond.	361	346	297	77	5	2	40.0		0.80	0.49
249	Guscio fond.	115	298	299	52	5	2	67.0		1.59	0.97
250	Guscio fond.	152	300	301	28	5	2	40.0		0.80	0.49
251	Guscio fond.	28	301	298	115	5	2	40.0		0.80	0.49
252	Guscio fond.	77	297	300	152	5	2	40.0		0.80	0.49
253	Guscio fond.	345	364	302	36	5	2	40.0		0.80	0.49
254	Guscio fond.	116	303	304	79	5	2	67.0		1.59	0.97
255	Guscio fond.	153	305	306	96	5	2	40.0		0.80	0.49
256	Guscio fond.	96	306	303	116	5	2	40.0		0.80	0.49
257	Guscio fond.	36	302	305	153	5	2	40.0		0.80	0.49
258	Guscio fond.	363	348	307	80	5	2	40.0		0.80	0.49
259	Guscio fond.	117	308	309	54	5	2	67.0		1.59	0.97
260	Guscio fond.	154	310	311	20	5	2	40.0		0.80	0.49
261	Guscio fond.	20	311	308	117	5	2	40.0		0.80	0.49
262	Guscio fond.	80	307	310	154	5	2	40.0		0.80	0.49
263	Guscio fond.	347	366	312	37	5	2	40.0		0.80	0.49
264	Guscio fond.	118	313	314	82	5	2	67.0		1.59	0.97
265	Guscio fond.	155	315	316	97	5	2	40.0		0.80	0.49
266	Guscio fond.	97	316	313	118	5	2	40.0		0.80	0.49
267	Guscio fond.	37	312	315	155	5	2	40.0		0.80	0.49
268	Guscio fond.	365	350	317	83	5	2	40.0		0.80	0.49
269	Guscio fond.	119	318	319	56	5	2	67.0		1.59	0.97
270	Guscio fond.	156	320	321	16	5	2	40.0		0.80	0.49
271	Guscio fond.	16	321	318	119	5	2	40.0		0.80	0.49
272	Guscio fond.	83	317	320	156	5	2	40.0		0.80	0.49
273	Guscio fond.	349	368	322	38	5	2	40.0		0.80	0.49
274	Guscio fond.	120	323	324	6	5	2	67.0		1.59	0.97
275	Guscio fond.	157	325	326	98	5	2	40.0		0.80	0.49
276	Guscio fond.	98	326	323	120	5	2	40.0		0.80	0.49
277	Guscio fond.	38	322	325	157	5	2	40.0		0.80	0.49
278	Guscio fond.	99	327	328	61	5	2	67.0		1.59	0.97
279	Guscio fond.	141	329	330	90	5	2	40.0		0.80	0.49
280	Guscio fond.	90	330	327	99	5	2	40.0		0.80	0.49
281	Guscio fond.	30	250	329	141	5	2	40.0		0.80	0.49
282	Guscio fond.	106	331	332	42	5	2	67.0		1.59	0.97
283	Guscio fond.	142	333	334	14	5	2	40.0		0.80	0.49
284	Guscio fond.	14	334	331	106	5	2	40.0		0.80	0.49
285	Guscio fond.	62	251	333	142	5	2	40.0		0.80	0.49
286	Guscio fond.	187	122	335	336	5	2	40.0		0.80	0.49
287	Guscio fond.	195	123	337	338	5	2	40.0		0.80	0.49
288	Guscio fond.	203	124	339	340	5	2	40.0		0.80	0.49
289	Guscio fond.	211	125	341	342	5	2	40.0		0.80	0.49
290	Guscio fond.	219	126	343	344	5	2	40.0		0.80	0.49
291	Guscio fond.	227	127	345	346	5	2	40.0		0.80	0.49
292	Guscio fond.	235	128	347	348	5	2	40.0		0.80	0.49

Elem.	Note	Nodo I	Nodo J	Nodo K	Nodo L	Mat.	Crit.	Spessore	Svincolo	Wink V	Wink O
293	Guscio fond.	243	129	349	350	5	2	40.0		0.80	0.49
294	Guscio fond.	183	15	351	352	5	2	40.0		0.80	0.49
295	Guscio fond.	191	19	353	354	5	2	40.0		0.80	0.49
296	Guscio fond.	199	23	355	356	5	2	40.0		0.80	0.49
297	Guscio fond.	207	27	357	358	5	2	40.0		0.80	0.49
298	Guscio fond.	215	13	359	360	5	2	40.0		0.80	0.49
299	Guscio fond.	223	29	361	362	5	2	40.0		0.80	0.49
300	Guscio fond.	231	21	363	364	5	2	40.0		0.80	0.49
301	Guscio fond.	239	17	365	366	5	2	40.0		0.80	0.49
302	Guscio fond.	247	25	367	368	5	2	40.0		0.80	0.49
303	Guscio fond.	25	130	369	367	5	2	40.0		0.80	0.49
304	Guscio fond.	121	183	352	162	5	2	40.0		0.80	0.49
305	Guscio fond.	15	187	336	351	5	2	40.0		0.80	0.49
306	Guscio fond.	122	191	354	335	5	2	40.0		0.80	0.49
307	Guscio fond.	19	195	338	353	5	2	40.0		0.80	0.49
308	Guscio fond.	123	199	356	337	5	2	40.0		0.80	0.49
309	Guscio fond.	23	203	340	355	5	2	40.0		0.80	0.49
310	Guscio fond.	124	207	358	339	5	2	40.0		0.80	0.49
311	Guscio fond.	27	211	342	357	5	2	40.0		0.80	0.49
312	Guscio fond.	125	215	360	341	5	2	40.0		0.80	0.49
313	Guscio fond.	13	219	344	359	5	2	40.0		0.80	0.49
314	Guscio fond.	126	223	362	343	5	2	40.0		0.80	0.49
315	Guscio fond.	29	227	346	361	5	2	40.0		0.80	0.49
316	Guscio fond.	127	231	364	345	5	2	40.0		0.80	0.49
317	Guscio fond.	21	235	348	363	5	2	40.0		0.80	0.49
318	Guscio fond.	128	239	366	347	5	2	40.0		0.80	0.49
319	Guscio fond.	17	243	350	365	5	2	40.0		0.80	0.49
320	Guscio fond.	129	247	368	349	5	2	40.0		0.80	0.49



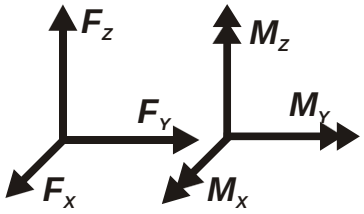
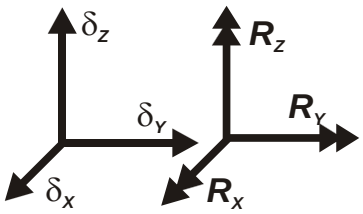
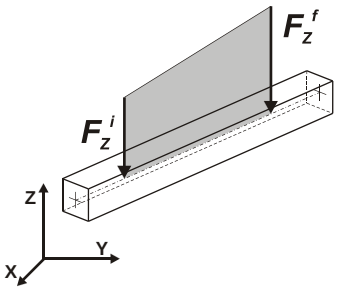
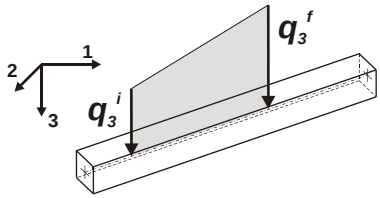
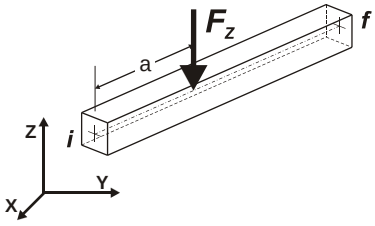
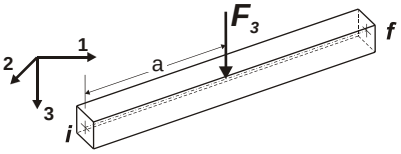
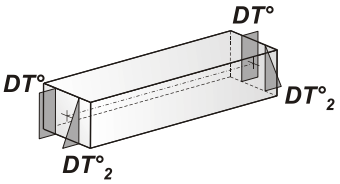
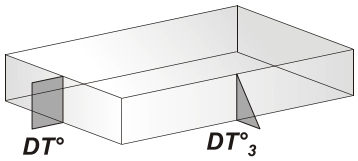
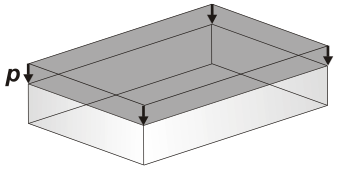
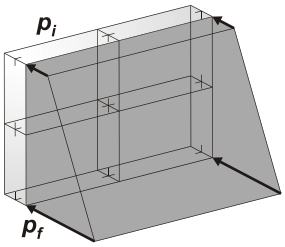
16_MOD_NUMERAZIONE_D3

MODELLAZIONE DELLE AZIONI

LEGENDA TABELLA DATI AZIONI

Il programma consente l'uso di diverse tipologie di carico (azioni). Le azioni utilizzate nella modellazione sono individuate da una sigla identificativa ed un codice numerico (gli elementi strutturali richiamano quest'ultimo nella propria descrizione). Per ogni azione applicata alla struttura viene di riportato il codice, il tipo e la sigla identificativa. Le tabelle successive dettagliano i valori caratteristici di ogni azione in relazione al tipo. Le tabelle riportano infatti i seguenti dati in relazione al tipo:

1	**carico concentrato nodale** 6 dati (forza Fx, Fy, Fz, momento Mx, My, Mz)
2	**spostamento nodale impresso** 6 dati (spostamento Tx,Ty,Tz, rotazione Rx,Ry,Rz)
3	**carico distribuito globale su elemento tipo trave** 7 dati (fx,fy,fz,mx,my,mz,ascissa di inizio carico) 7 dati (fx,fy,fz,mx,my,mz,ascissa di fine carico)
4	**carico distribuito locale su elemento tipo trave** 7 dati (f1,f2,f3,m1,m2,m3,ascissa di inizio carico) 7 dati (f1,f2,f3,m1,m2,m3,ascissa di fine carico)
5	**carico concentrato globale su elemento tipo trave** 7 dati (Fx,Fy,Fz,Mx,My,Mz,ascissa di carico)
6	**carico concentrato locale su elemento tipo trave** 7 dati (F1, F2, F3, M1, M2, M3, ascissa di carico)
7	**variazione termica applicata ad elemento tipo trave** 7 dati (variazioni termiche: uniforme, media e differenza in altezza e larghezza al nodo iniziale e finale)
8	**carico di pressione uniforme su elemento tipo piastra** 1 dato (pressione)
9	**carico di pressione variabile su elemento tipo piastra** 4 dati (pressione, quota, pressione, quota)
10	**variazione termica applicata ad elemento tipo piastra** 2 dati (variazioni termiche: media e differenza nello spessore)
11	**carico variabile generale su elementi tipo trave e piastra** 1 dato descrizione della tipologia 4 dati per segmento (posizione, valore, posizione, valore) la tipologia precisa l'ascissa di definizione, la direzione del carico, la modalità di carico e la larghezza d'influenza per gli elementi tipo trave
12	**gruppo di carichi con impronta su piastra** 9 dati (numero di ripetizioni in direzione X e Y, valore di ciascun carico, posizione centrale del primo, dimensioni dell' impronta, interasse tra i carichi

 Carico concentrato nodale	 Spostamento impresso
 Carico distribuito globale	 Carico distribuito locale
 Carico concentrato globale	 Carico concentrato locale
 Carico termico 2D	 Carico termico 3D
 Carico pressione uniforme	 Carico pressione variabile

Tipo	carico concentrato nodale

Id	Tipo	Fx	Fy	Fz	Mx	My	Mz
		daN	daN	daN	daN cm	daN cm	daN cm
3	Azione Sicurvia_3 - CN:Fy=4000.00 Mx=32.00	0.0	4000.00	0.0	32.00	0.0	0.0

Tipo	carico di pressione uniforme su piastra

Id	Tipo	pressione
		daN/cm2
9	Carico stradale - P3:p=0.10	0.10

SCHEMATIZZAZIONE DEI CASI DI CARICO

LEGENDA TABELLA CASI DI CARICO

Il programma consente l'applicazione di diverse tipologie di casi di carico.
Sono previsti i seguenti 11 tipi di casi di carico:

	Sigla	***Tipo***	***Descrizione***
1	**Ggk**	A	caso di carico comprensivo del peso proprio struttura
2	**Gk**	NA	caso di carico con azioni permanenti
3	**Qk**	NA	caso di carico con azioni variabili
4	**Gsk**	A	caso di carico comprensivo dei carichi permanenti sui solai e sulle coperture
5	**Qsk**	A	caso di carico comprensivo dei carichi variabili sui solai
6	**Qnk**	A	caso di carico comprensivo dei carichi di neve sulle coperture
7	**Qtk**	SA	caso di carico comprensivo di una variazione termica agente sulla struttura
8	**Qvk**	NA	caso di carico comprensivo di azioni da vento sulla struttura
9	**Esk**	SA	caso di carico sismico con analisi statica equivalente
10	**Edk**	SA	caso di carico sismico con analisi dinamica
11	**Etk**	NA	caso di carico comprensivo di azioni derivanti dall' incremento di spinta delle terre in condizione sismica
12	**Pk**	NA	caso di carico comprensivo di azioni derivanti da coazioni, cedimenti e precompressioni

Sono di tipo automatico A (ossia non prevedono introduzione dati da parte dell'utente) i seguenti casi di carico: 1-Ggk; 4-Gsk; 5-Qsk; 6-Qnk.

Sono di tipo semi-automatico SA (ossia prevedono una minima introduzione dati da parte dell'utente) i seguenti casi di carico:
7-Qtk, in quanto richiede solo il valore della variazione termica;
9-Esk e 10-Edk, in quanto richiedono il valore dell'angolo di ingresso del sisma e l'individuazione dei casi di carico partecipanti alla definizione delle masse.

Sono di tipo non automatico NA ossia prevedono la diretta applicazione di carichi generici agli elementi strutturali (si veda il precedente punto Modellazione delle Azioni) i restanti casi di carico.

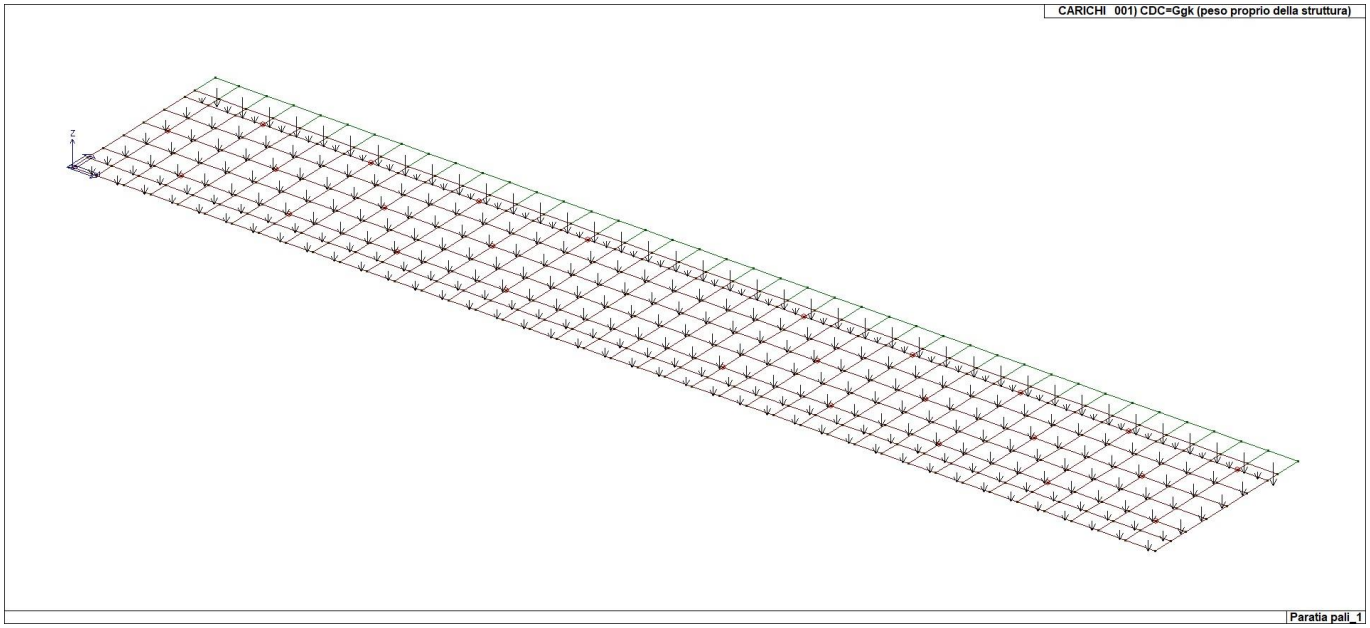
Nella tabella successiva vengono riportati i casi di carico agenti sulla struttura, con l'indicazione dei dati relativi al caso di carico stesso:
Numero Tipo e *Sigla identificativa*, *Valore di riferimento* del caso di carico (se previsto).

In successione, per i casi di carico non automatici, viene riportato l'elenco di nodi ed elementi direttamente caricati con la sigla identificativa del carico.

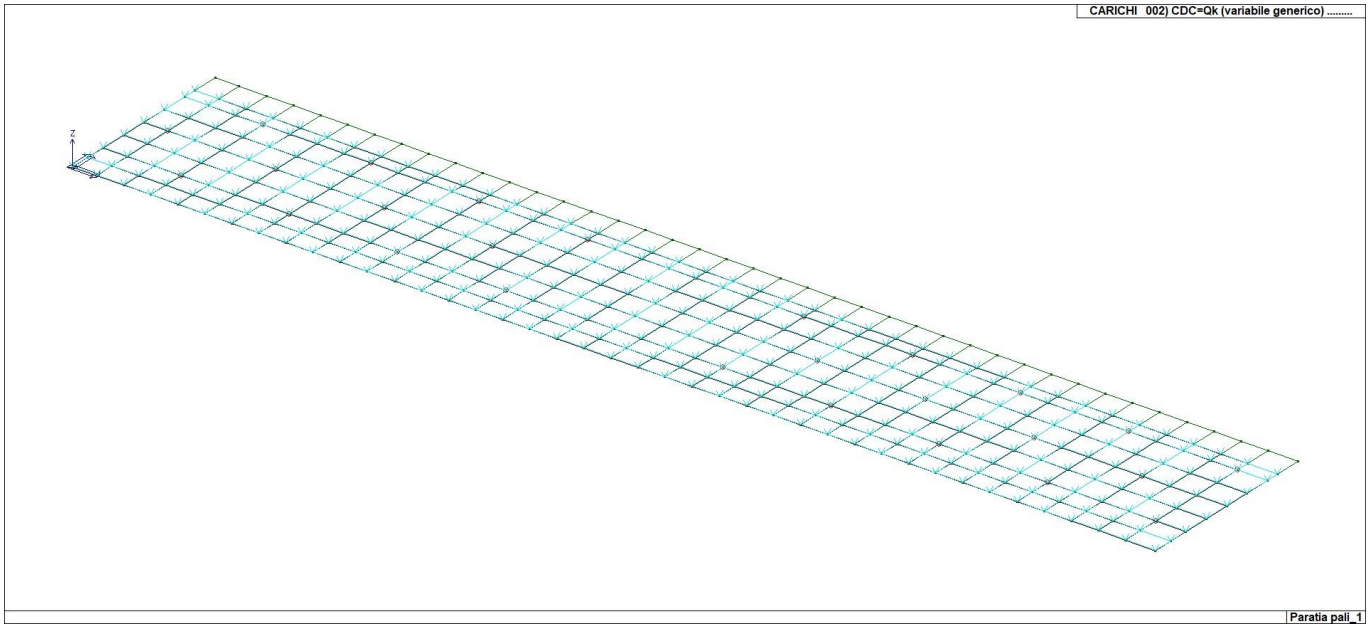
Per i casi di carico di tipo sismico (9-Esk e 10-Edk), viene riportata la tabella di definizione delle masse: per ogni caso di carico partecipante alla definizione delle masse viene indicata la relativa aliquota (partecipazione) considerata. Si precisa che per i caso di carico 5-Qsk e 6-Qnk la partecipazione è prevista localmente per ogni elemento solaio o copertura presente nel modello (si confronti il valore Sksol nel capitolo relativo agli elementi solaio) e pertanto la loro partecipazione è di norma pari a uno.

CDC	Tipo	Sigla Id	Note	Per non automatici:
1	Ggk	CDC=Ggk (peso proprio della struttura)		
2	Qk	CDC=Qk (variabile generico)	Azioni applicate:	Ad elementi:
			[9] Carico stradale - P3:p=0.10	D3: 4 # 12, 14, 17, 20, 23, 26, 29, 32, 35, 38, 40 # 131, 133 # 135, 137 # 203, 205 # 208, 210 # 213, 215 # 218, 220 # 223, 225 # 228, 230 # 233, 235 # 238, 240 # 243, 245 # 248, 250 # 253, 255 # 258, 260 #

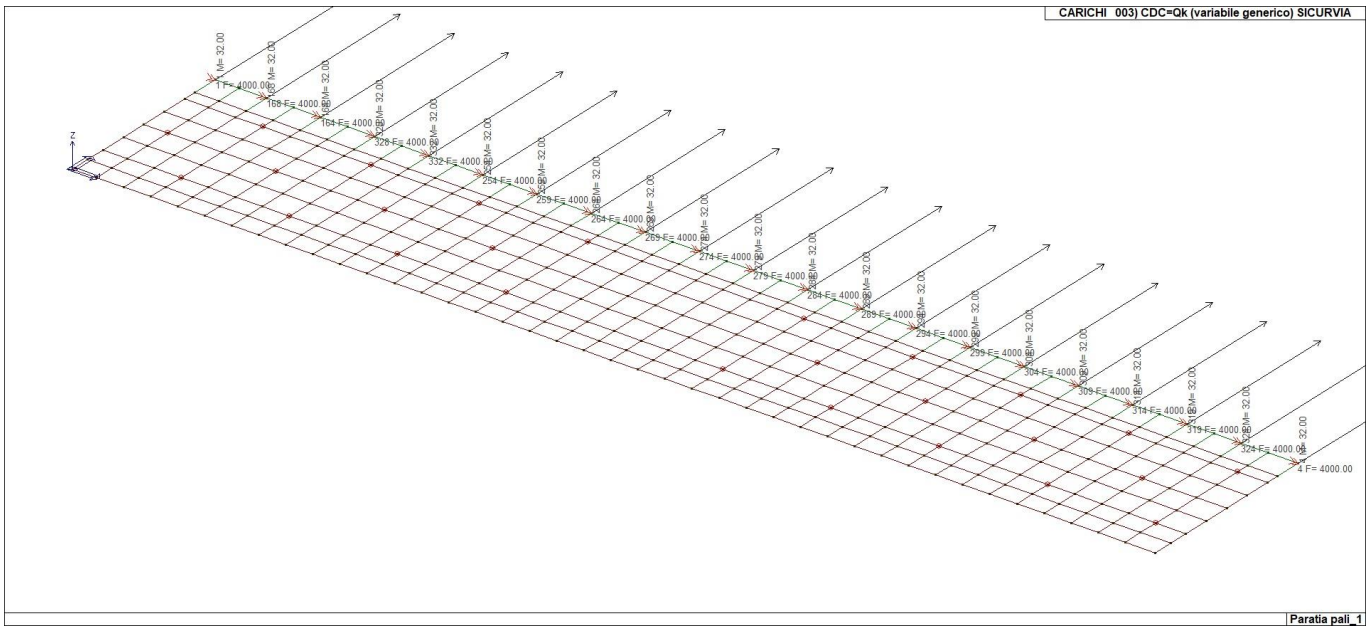
CDC	Tipo	Sigla Id	Note	Per non automatici:
				263, 265 # 268, 270 # 273, 275 # 277, 279 # 281, 283 # 320
3	Qk	CDC=Qk (variabile generico) SICURVIA	Azioni applicate:	Ad elementi:
			[3] Azione Sicurvia_3 - CN:Fy=4000.00 Mx=32.00	Nodi: 1, 4, 164, 168, 254, 259, 264, 269, 274, 279, 284, 289, 294, 299, 304, 309, 314, 319, 324, 328, 332



22_CDC_001_CDCGgk peso proprio della struttura



22_CDC_002_CDCQk variabile generico



22_CDC_003_CDCQk variabile generico SICURVIA

DEFINIZIONE DELLE COMBINAZIONI

LEGENDA TABELLA COMBINAZIONI DI CARICO

Il programma combina i diversi tipi di casi di carico (CDC) secondo le regole previste dalla normativa vigente.
Le combinazioni previste sono destinate al controllo di sicurezza della struttura ed alla verifica degli spostamenti e delle sollecitazioni.

La prima tabella delle combinazioni riportata di seguito comprende le seguenti informazioni: Numero, Tipo, Sigla identificativa. Una seconda tabella riporta il peso nella combinazione assunto per ogni caso di carico.

Ai fini delle verifiche degli stati limite si definiscono le seguenti combinazioni delle azioni:

Combinazione fondamentale *SLU*

$\gamma G1 \cdot G1 + \gamma G2 \cdot G2 + \gamma P \cdot P + \gamma Q1 \cdot Qk1 + \gamma Q2 \cdot \psi 02 \cdot Qk2 + \gamma Q3 \cdot \psi 03 \cdot Qk3 + \ldots$

Combinazione caratteristica *(rara) SLE*

$G1 + G2 + P + Qk1 + \psi 02 \cdot Qk2 + \psi 03 \cdot Qk3 + \ldots$

Combinazione frequente *SLE*

$G1 + G2 + P + \psi 11 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \ldots$

Combinazione quasi permanente *SLE*

$G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \psi 23 \cdot Qk3 + \ldots$

Combinazione sismica*, impiegata per gli stati limite ultimi e di esercizio connessi all'azione sismica E*

$E + G1 + G2 + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \ldots$

Combinazione eccezionale*, impiegata per gli stati limite connessi alle azioni eccezionali*

$G1 + G2 + Ad + P + \psi 21 \cdot Qk1 + \psi 22 \cdot Qk2 + \ldots$

Dove:

NTC 2018 Tabella 2.5.I

Destinazione d'uso/azione	***ψ0***	***ψ1***	***ψ2***
Categoria A residenziali	*0,70*	*0,50*	*0,30*
Categoria B uffici	*0,70*	*0,50*	*0,30*
Categoria C ambienti suscettibili di affollamento	*0,70*	*0,70*	*0,60*
Categoria D ambienti ad uso commerciale	*0,70*	*0,70*	*0,60*
Categoria E biblioteche, archivi, magazzini,…	*1,00*	*0,90*	*0,80*
Categoria F Rimesse e parcheggi (autoveicoli <= 30kN)	*0,70*	*0,70*	*0,60*
Categoria G Rimesse e parcheggi (autoveicoli > 30kN)	*0,70*	*0,50*	*0,30*
Categoria H Coperture	*0,00*	*0,00*	*0,00*
Vento	*0,60*	*0,20*	*0,00*
Neve a quota <= 1000 m	*0,50*	*0,20*	*0,00*
Neve a quota > 1000 m	*0,70*	*0,50*	*0,20*
Variazioni Termiche	*0,60*	*0,50*	*0,00*

Nelle verifiche possono essere adottati in alternativa due diversi approcci progettuali:
- per l'approccio 1 si considerano due diverse combinazioni di gruppi di coefficienti di sicurezza parziali per le azioni, per i materiali e per la resistenza globale (combinazione 1 con coefficienti A1 e combinazione 2 con coefficienti A2),
- per l'approccio 2 si definisce un'unica combinazione per le azioni, per la resistenza dei materiali e per la resistenza globale (con coefficienti A1).

NTC 2018 Tabella 2.6.I

		Coefficiente γf	***EQU***	***A1***	***A2***
Carichi permanenti	*Favorevoli*	*γG1*	*0,9*	*1,0*	*1,0*
	Sfavorevoli		*1,1*	*1,3*	*1,0*

Carichi permanenti non strutturali *(Non compiutamente definiti)*	*Favorevoli*	*γG2*	*0,8*	*0,8*	*0,8*
	Sfavorevoli		*1,5*	*1,5*	*1,3*
Carichi variabili	*Favorevoli*	*γQi*	*0,0*	*0,0*	*0,0*
	Sfavorevoli		*1,5*	*1,5*	*1,3*

Cmb	Tipo	Sigla Id	effetto P-delta
1	SLU	Comb. SLU A1 2	
2	SLU	Comb. SLU A1 8	
3	SLE(r)	Comb. SLE(rara) 3	
4	SLE(r)	Comb. SLE(rara) 4	
5	SLE(r)	Comb. SLE(rara) 5	
6	SLE(r)	Comb. SLE(rara) 6	

Cmb	CDC 1/15...	CDC 2/16...	CDC 3/17...	CDC 4/18...	CDC 5/19...	CDC 6/20...	CDC 7/21...	CDC 8/22...	CDC 9/23...	CDC 10/24...	CDC 11/25...	CDC 12/26...	CDC 13/27...	CDC 14/28...
1	1.30	1.50	0.0											
2	1.00	1.00	1.00											
3	1.00	0.0	0.0											
4	1.00	1.00	0.0											
5	1.00	0.0	1.00											
6	1.00	1.00	1.00											

RISULTATI OPERE DI FONDAZIONE

LEGENDA RISULTATI OPERE DI FONDAZIONE

Il controllo dei risultati delle analisi condotte, per quanto concerne le opere di fondazione, è possibile in relazione alle tabelle sotto riportate.

La prima tabella è riferita alle fondazioni tipo palo e plinto su pali.
Per questo tipo di fondazione vengono riportate le sei componenti di sollecitazione (espresse nel riferimento globale della struttura) per ogni palo componente l'opera.
In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	codice corrispondente al nome assegnato al tipo di plinto di fondazione: 3) palo singolo (*PALO*) 4) plinto su palo 5) plinto su due pali (*PL.2P*) 6) plinto su tre pali (*PL.3P*) 7) plinto su quattro pali (*PL.4P*) 8) plinto rettangolare su cinque pali (*PL.5P.R*) 9) plinto pentagonale su cinque pali (*PL.5P*) 10) plinto su sei pali (*PL.6P*)
Palo	numero del palo
Comb.	combinazione di carico in cui si verificano le sei componenti di sollecitazione.
Quota	quota assoluta della sezione del palo per cui si riportano le sei componenti di sollecitazione.

L'azione Fz (corrispondente allo sforzo normale nel palo) è costante poiché il peso del palo stesso non è considerato nella modellazione.

La seconda tabella è riferita alle fondazioni tipo plinto su suolo elastico.
Per questo tipo di fondazione vengono riportate le pressioni nei quattro vertici dell'impronta sul terreno.
In particolare viene riportato:

Nodo	numero del nodo a cui è applicato il plinto
Tipo	Codice identificativo del nome assegnato al plinto
area	area dell'impronta del plinto
Wink O **Wink V**	coefficienti di Winkler (orizzontale e verticale) adottati
Comb	Combinazione di carico in cui si verificano i valori riportati
Pt (P1 P2 P3 P4)	valori di pressione nei vertici

La terza tabella è riferita alle fondazioni tipo platea su suolo elastico.
Per questo tipo di fondazione vengono riportate le pressioni in ogni vertice (nodo) degli elementi costituenti la platea.

La quarta tabella è riferita alle fondazioni tipo trave su suolo elastico.
Per questo tipo di fondazione vengono riportate le pressioni alle estremità dell'elemento e la massima (in valore assoluto) pressione lungo lo sviluppo dell'elemento.
Vengono inoltre riportati, con funzione statistica, i valori massimo e minimo delle pressioni che compaiono nella tabella.

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
				cm	daN	daN	daN	daN cm	daN cm	daN cm
5	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	8.74	5.03	-6562.64	-746.46	-1133.80	0.0
		1	2	0.0	6.37	1224.20	-4678.79	-8.654e+04	-796.36	0.0
		1	4	0.0	6.29	3.05	-4711.33	-446.90	-815.89	0.0
		1	5	0.0	3.54	1218.83	-2489.28	-8.572e+04	-430.67	0.0
		1	6	0.0	6.37	1224.20	-4678.79	-8.654e+04	-796.36	0.0
10	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	6.17	-15.66	-6370.44	1882.00	-809.36	0.0
		1	2	0.0	15.56	1202.26	-6111.47	-8.424e+04	-1463.21	0.0
		1	3	0.0	3.48	-14.00	-3444.96	1862.86	-452.30	0.0
		1	6	0.0	15.56	1202.26	-6111.47	-8.424e+04	-1463.21	0.0
11	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	8.53	23.10	-7600.23	-3037.22	-1105.06	0.0
		1	2	0.0	-3.96	1228.23	-3987.30	-8.766e+04	29.04	0.0
		1	4	0.0	6.02	16.46	-5385.84	-2148.05	-781.33	0.0
		1	5	0.0	-7.44	1219.73	-994.12	-8.644e+04	475.71	0.0
		1	6	0.0	-3.96	1228.23	-3987.30	-8.766e+04	29.04	0.0
12	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	46.84	-2.63	-1.195e+04	243.58	-5973.19	0.0
		1	2	0.0	36.47	1156.20	-9720.58	-8.161e+04	-4468.11	0.0
		1	3	0.0	19.80	-10.31	-5757.68	1389.47	-2524.75	0.0
		1	6	0.0	36.47	1156.20	-9720.58	-8.161e+04	-4468.11	0.0
13	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	63.00	13.14	-1.339e+04	-1757.97	-8024.09	0.0
		1	2	0.0	41.17	1165.78	-8537.11	-8.296e+04	-5513.30	0.0
		1	4	0.0	45.08	9.15	-9533.51	-1210.94	-5742.20	0.0
		1	5	0.0	19.20	1159.57	-3531.94	-8.204e+04	-2717.11	0.0
		1	6	0.0	41.17	1165.78	-8537.11	-8.296e+04	-5513.30	0.0
14	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	1.56	-10.77	-5462.00	1265.68	-224.07	0.0
		1	2	0.0	9.48	1189.34	-5240.57	-8.358e+04	-773.93	0.0
		1	3	0.0	0.72	-11.39	-2951.70	1530.49	-102.66	0.0
		1	6	0.0	9.48	1189.34	-5240.57	-8.358e+04	-773.93	0.0
15	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	1.58	17.67	-6656.67	-2344.64	-223.12	0.0
		1	2	0.0	-6.18	1208.07	-3501.88	-8.608e+04	369.26	0.0
		1	4	0.0	1.12	12.66	-4717.54	-1663.13	-159.04	0.0
		1	5	0.0	-6.78	1201.99	-882.52	-8.517e+04	451.10	0.0
		1	6	0.0	-6.18	1208.07	-3501.88	-8.608e+04	369.26	0.0
16	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-0.29	-10.51	-5978.65	1243.78	7.74	0.0
		1	2	0.0	-1.16	1134.81	-5543.85	-7.974e+04	62.05	0.0
		1	3	0.0	0.05	-11.08	-3134.80	1483.72	-19.24	0.0
		1	6	0.0	-1.16	1134.81	-5543.85	-7.974e+04	62.05	0.0
17	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	0.31	17.28	-7062.91	-2283.05	-69.18	0.0
		1	2	0.0	-1.81	1153.16	-3856.15	-8.219e+04	101.39	0.0
		1	4	0.0	0.20	12.39	-5015.70	-1622.17	-46.72	0.0
		1	5	0.0	-2.08	1147.30	-1143.67	-8.132e+04	143.63	0.0
		1	6	0.0	-1.81	1153.16	-3856.15	-8.219e+04	101.39	0.0
18	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-5.67	-10.76	-5426.15	1267.32	693.51	0.0
		1	2	0.0	2.46	1176.47	-5154.36	-8.269e+04	19.67	0.0
		1	3	0.0	-2.63	-11.73	-2970.76	1572.79	323.52	0.0
		1	4	0.0	-4.13	-8.74	-4013.54	1054.59	505.48	0.0
		1	6	0.0	2.46	1176.47	-5154.36	-8.269e+04	19.67	0.0
19	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-2.65	15.08	-6205.41	-2011.45	313.19	0.0
		1	2	0.0	-7.93	1193.15	-3218.06	-8.494e+04	667.27	0.0
		1	4	0.0	-1.88	10.77	-4390.86	-1420.32	221.65	0.0
		1	5	0.0	-6.90	1187.73	-731.59	-8.411e+04	542.02	0.0
		1	6	0.0	-7.93	1193.15	-3218.06	-8.494e+04	667.27	0.0
20	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-2.85	-9.99	-5656.74	1177.46	332.56	0.0
		1	2	0.0	-1.69	1136.82	-5325.72	-7.990e+04	216.16	0.0
		1	3	0.0	-1.10	-11.10	-3023.56	1487.25	126.95	0.0
		1	4	0.0	-2.05	-8.14	-4174.30	983.27	238.63	0.0
		1	6	0.0	-1.69	1136.82	-5325.72	-7.990e+04	216.16	0.0
21	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-3.14	17.33	-6831.96	-2289.18	369.49	0.0
		1	2	0.0	-5.22	1154.67	-3684.67	-8.229e+04	475.07	0.0
		1	4	0.0	-2.28	12.40	-4845.75	-1623.41	267.38	0.0
		1	5	0.0	-4.30	1148.64	-1022.23	-8.140e+04	365.60	0.0
		1	6	0.0	-5.22	1154.67	-3684.67	-8.229e+04	475.07	0.0
22	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-47.86	-2.67	-1.195e+04	245.13	6047.84	0.0
		1	2	0.0	-29.07	1173.38	-9737.76	-8.283e+04	3940.29	0.0
		1	3	0.0	-20.23	-10.26	-5757.87	1384.89	2556.78	0.0
		1	4	0.0	-34.61	-3.15	-8734.45	348.07	4372.80	0.0
		1	6	0.0	-29.07	1173.38	-9737.76	-8.283e+04	3940.29	0.0
23	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-63.90	13.11	-1.341e+04	-1758.42	8085.60	0.0
		1	2	0.0	-51.51	1182.96	-8527.67	-8.417e+04	6250.67	0.0
		1	4	0.0	-45.74	9.14	-9541.10	-1211.94	5787.23	0.0
		1	5	0.0	-29.32	1176.81	-3519.55	-8.326e+04	3439.64	0.0
		1	6	0.0	-51.51	1182.96	-8527.67	-8.417e+04	6250.67	0.0
24	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	2.99	-7.39	-5466.44	847.54	-409.04	0.0
		1	2	0.0	1.83	1139.49	-4980.09	-8.021e+04	-356.70	0.0

Nodo	Tipo	Palo	Cmb	Quota	Fx	Fy	Fz	Mx	My	Mz
		1	3	0.0	2.44	-9.43	-2760.95	1272.98	-322.09	0.0
		1	5	0.0	1.95	1136.25	-3728.62	-7.967e+04	-363.15	0.0
		1	6	0.0	1.83	1139.49	-4980.09	-8.021e+04	-356.70	0.0
25	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	5.71	11.18	-6218.25	-1509.11	-754.87	0.0
		1	2	0.0	0.88	1149.95	-3442.65	-8.172e+04	-213.67	0.0
		1	4	0.0	4.09	8.11	-4413.05	-1079.15	-541.09	0.0
		1	5	0.0	-1.09	1146.76	-1036.20	-8.119e+04	43.61	0.0
		1	6	0.0	0.88	1149.95	-3442.65	-8.172e+04	-213.67	0.0
28	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	4.29	-10.73	-5469.93	1272.21	-573.47	0.0
		1	2	0.0	4.85	1141.62	-5160.06	-8.022e+04	-526.13	0.0
		1	3	0.0	2.05	-11.85	-2992.60	1583.62	-273.16	0.0
		1	6	0.0	4.85	1141.62	-5160.06	-8.022e+04	-526.13	0.0
29	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	1.42	15.10	-6214.89	-2006.43	-209.51	0.0
		1	2	0.0	-2.89	1158.31	-3259.17	-8.247e+04	117.56	0.0
		1	4	0.0	0.98	10.76	-4397.81	-1415.42	-145.96	0.0
		1	5	0.0	-3.61	1152.77	-770.44	-8.164e+04	216.39	0.0
		1	6	0.0	-2.89	1158.31	-3259.17	-8.247e+04	117.56	0.0
30	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	1.03	2.12	-5180.36	-372.48	-155.59	0.0
		1	2	0.0	1.30	1208.53	-3719.86	-8.564e+04	-155.93	0.0
		1	3	0.0	0.49	-1.30	-1936.76	249.74	-73.80	0.0
		1	6	0.0	1.30	1208.53	-3719.86	-8.564e+04	-155.93	0.0
31	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	0.93	2.05	-4848.64	-359.62	-142.40	0.0
		1	2	0.0	1.04	1193.38	-3465.20	-8.458e+04	-130.11	0.0
		1	4	0.0	0.66	1.21	-3471.81	-208.49	-101.85	0.0
		1	5	0.0	0.70	1190.99	-1788.73	-8.414e+04	-80.14	0.0
		1	6	0.0	1.04	1193.38	-3465.20	-8.458e+04	-130.11	0.0
32	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-24.00	-0.15	-6440.43	-76.74	3021.32	0.0
		1	2	0.0	-17.18	1180.92	-4610.18	-8.363e+04	2168.34	0.0
		1	4	0.0	-17.26	-0.46	-4617.89	5.49	2173.33	0.0
		1	5	0.0	-9.40	1178.69	-2424.37	-8.321e+04	1188.37	0.0
		1	6	0.0	-17.18	1180.92	-4610.18	-8.363e+04	2168.34	0.0
35	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	22.94	-0.12	-6438.68	-75.53	-2941.01	0.0
		1	2	0.0	15.62	1154.93	-4610.56	-8.179e+04	-2053.18	0.0
		1	4	0.0	16.50	-0.45	-4616.77	7.44	-2114.90	0.0
		1	5	0.0	8.13	1152.60	-2426.19	-8.136e+04	-1094.97	0.0
		1	6	0.0	15.62	1154.93	-4610.56	-8.179e+04	-2053.18	0.0
36	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-2.65	2.06	-4947.96	-351.33	306.23	0.0
		1	2	0.0	-3.09	1149.33	-3541.07	-8.145e+04	305.48	0.0
		1	4	0.0	-1.91	1.19	-3543.95	-200.83	220.51	0.0
		1	5	0.0	-2.25	1146.78	-1836.95	-8.100e+04	207.63	0.0
		1	6	0.0	-3.09	1149.33	-3541.07	-8.145e+04	305.48	0.0
37	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	-1.45	2.39	-5468.27	-393.30	154.44	0.0
		1	2	0.0	-2.42	1146.19	-3915.89	-8.124e+04	208.28	0.0
		1	4	0.0	-1.05	1.44	-3919.16	-232.41	111.98	0.0
		1	5	0.0	-2.01	1143.60	-2049.10	-8.079e+04	163.95	0.0
		1	6	0.0	-2.42	1146.19	-3915.89	-8.124e+04	208.28	0.0
38	MICROPALO D 139.7x10 - PALO D 25.00	1	1	0.0	0.73	1.82	-5425.77	-321.72	-122.57	0.0
		1	2	0.0	-0.94	1146.37	-3877.09	-8.126e+04	16.15	0.0
		1	4	0.0	0.55	1.08	-3887.13	-186.56	-91.90	0.0
		1	5	0.0	-0.99	1144.25	-2014.57	-8.086e+04	31.63	0.0
		1	6	0.0	-0.94	1146.37	-3877.09	-8.126e+04	16.15	0.0
Nodo					**Fx**	**Fy**	**Fz**	**Mx**	**My**	**Mz**
					-63.90	-15.66	-1.341e+04	-8.766e+04	-8024.09	0.0
					63.00	1228.23	-731.59	1882.00	8085.60	0.0

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2	daN/cm2					
1	-0.02	-0.02									
2	-0.01	-0.01									
3	-6.97e-03	-4.94e-03									
4	-0.01	-0.01									
5	-5.55e-03	-3.99e-03									
6	-0.01	-0.01									
7	-0.01	-9.03e-03									
8	-0.02	-0.02									
9	-5.07e-03	-3.63e-03									
10	-5.39e-03	-5.17e-03									
11	-6.43e-03	-4.56e-03									
12	-0.01	-8.23e-03									

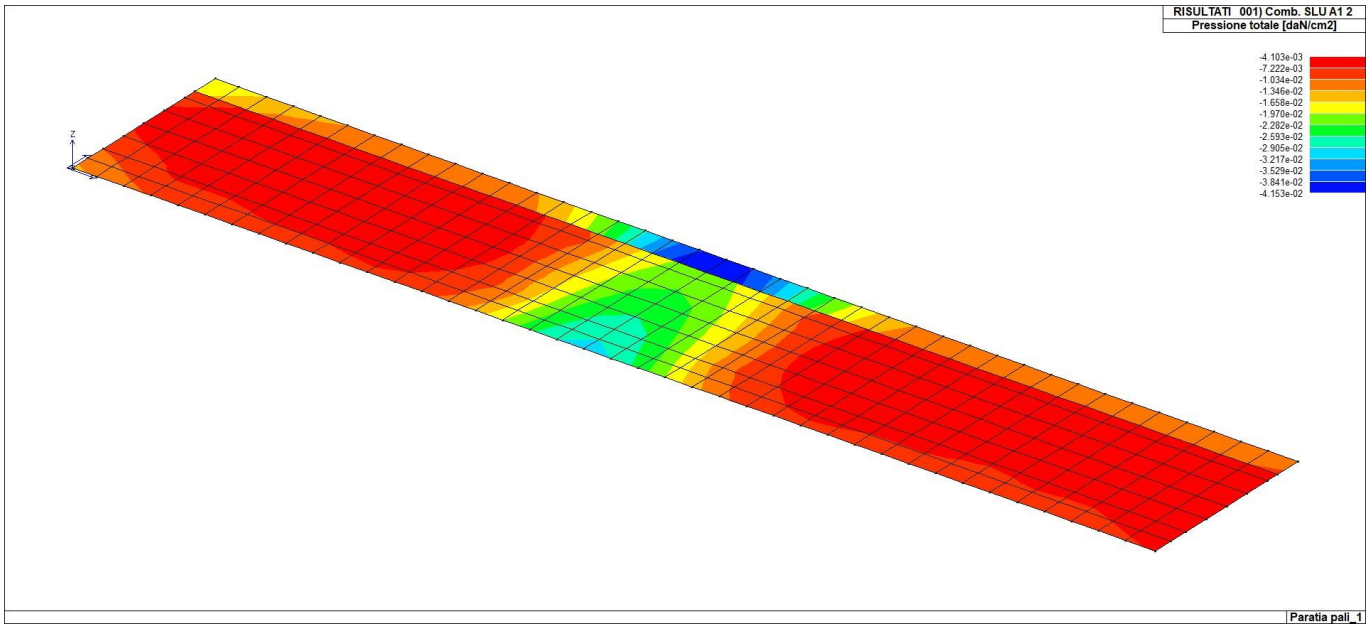
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
13	-0.01	-8.07e-03									
14	-4.62e-03	-4.43e-03									
15	-5.63e-03	-3.99e-03									
16	-5.06e-03	-4.69e-03									
17	-5.98e-03	-4.24e-03									
18	-4.59e-03	-4.36e-03									
19	-5.25e-03	-3.72e-03									
20	-4.79e-03	-4.51e-03									
21	-5.78e-03	-4.10e-03									
22	-0.01	-8.24e-03									
23	-0.01	-8.07e-03									
24	-4.63e-03	-4.21e-03									
25	-5.26e-03	-3.73e-03									
26	-0.02	-0.02									
27	-0.03	-0.02									
28	-4.63e-03	-4.37e-03									
29	-5.26e-03	-3.72e-03									
30	-4.38e-03	-3.15e-03									
31	-4.10e-03	-2.94e-03									
32	-5.45e-03	-3.91e-03									
33	-0.02	-0.01									
34	-0.02	-0.01									
35	-5.45e-03	-3.91e-03									
36	-4.19e-03	-3.00e-03									
37	-4.63e-03	-3.32e-03									
38	-4.59e-03	-3.29e-03									
39	-0.01	-7.14e-03									
40	-0.02	-0.02									
41	-8.62e-03	-6.09e-03									
42	-0.01	-0.01									
43	-7.84e-03	-5.53e-03									
44	-0.01	-0.01									
45	-0.01	-0.01									
46	-0.02	-0.02									
47	-0.03	-0.02									
48	-0.04	-0.03									
49	-0.01	-0.01									
50	-0.02	-0.02									
51	-7.83e-03	-5.53e-03									
52	-0.01	-0.01									
53	-8.73e-03	-6.18e-03									
54	-0.01	-0.01									
55	-8.95e-03	-6.35e-03									
56	-0.01	-0.01									
57	-7.59e-03	-5.38e-03									
58	-0.01	-0.01									
59	-5.36e-03	-3.86e-03									
60	-9.21e-03	-6.52e-03									
61	-0.01	-0.01									
62	-4.86e-03	-3.48e-03									
63	-8.30e-03	-5.87e-03									
64	-0.01	-0.01									
65	-4.68e-03	-3.35e-03									
66	-9.16e-03	-6.47e-03									
67	-0.02	-0.02									
68	-0.01	-8.43e-03									
69	-0.02	-0.02									
70	-0.03	-0.03									
71	-0.02	-0.02									
72	-0.02	-0.02									
73	-0.03	-0.03									
74	-0.01	-8.43e-03									
75	-9.14e-03	-6.45e-03									
76	-0.02	-0.02									
77	-4.71e-03	-3.37e-03									
78	-8.35e-03	-5.90e-03									
79	-0.01	-0.01									
80	-5.07e-03	-3.63e-03									
81	-9.18e-03	-6.50e-03									
82	-0.01	-0.01									
83	-5.32e-03	-3.81e-03									
84	-8.71e-03	-6.18e-03									
85	-4.98e-03	-3.57e-03									
86	-6.55e-03	-4.70e-03									

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
87	-4.86e-03	-4.36e-03									
88	-7.30e-03	-7.06e-03									
89	-7.99e-03	-7.76e-03									
90	-5.49e-03	-5.29e-03									
91	-4.98e-03	-4.83e-03									
92	-6.77e-03	-6.05e-03									
93	-0.02	-0.01									
94	-0.02	-0.01									
95	-6.78e-03	-6.03e-03									
96	-5.09e-03	-4.88e-03									
97	-5.63e-03	-5.28e-03									
98	-5.57e-03	-5.17e-03									
99	-0.01	-0.01									
100	-0.01	-0.01									
101	-9.89e-03	-9.67e-03									
102	-0.01	-0.01									
103	-0.02	-0.02									
104	-0.02	-0.02									
105	-0.01	-0.01									
106	-0.01	-0.01									
107	-0.01	-0.01									
108	-0.01	-0.01									
109	-0.02	-0.02									
110	-0.04	-0.03									
111	-0.04	-0.03									
112	-0.04	-0.03									
113	-0.02	-0.02									
114	-0.01	-0.01									
115	-0.01	-0.01									
116	-0.01	-0.01									
117	-0.01	-0.01									
118	-0.01	-0.01									
119	-0.01	-0.01									
120	-0.01	-0.01									
121	-6.73e-03	-4.77e-03									
122	-6.18e-03	-4.38e-03									
123	-7.38e-03	-5.23e-03									
124	-0.02	-0.02									
125	-0.02	-0.02									
126	-7.36e-03	-5.22e-03									
127	-6.25e-03	-4.43e-03									
128	-6.88e-03	-4.89e-03									
129	-6.66e-03	-4.73e-03									
130	-5.42e-03	-3.84e-03									
131	-9.23e-03	-6.54e-03									
132	-0.01	-7.31e-03									
133	-6.21e-03	-5.44e-03									
134	-5.61e-03	-4.76e-03									
135	-5.57e-03	-4.00e-03									
136	-6.44e-03	-6.21e-03									
137	-5.25e-03	-4.31e-03									
138	-4.79e-03	-3.68e-03									
139	-4.86e-03	-3.78e-03									
140	-6.73e-03	-5.92e-03									
141	-4.84e-03	-4.17e-03									
142	-4.67e-03	-3.78e-03									
143	-4.48e-03	-3.86e-03									
144	-4.59e-03	-3.70e-03									
145	-6.12e-03	-5.00e-03									
146	-0.01	-8.36e-03									
147	-0.02	-0.01									
148	-0.02	-0.02									
149	-0.02	-0.01									
150	-0.01	-8.35e-03									
151	-6.12e-03	-4.99e-03									
152	-4.62e-03	-3.72e-03									
153	-4.59e-03	-3.92e-03									
154	-4.88e-03	-3.92e-03									
155	-5.07e-03	-4.27e-03									
156	-5.14e-03	-4.09e-03									
157	-5.04e-03	-4.21e-03									
158	-5.76e-03	-4.09e-03									
159	-5.46e-03	-3.88e-03									
160	-6.69e-03	-4.74e-03									

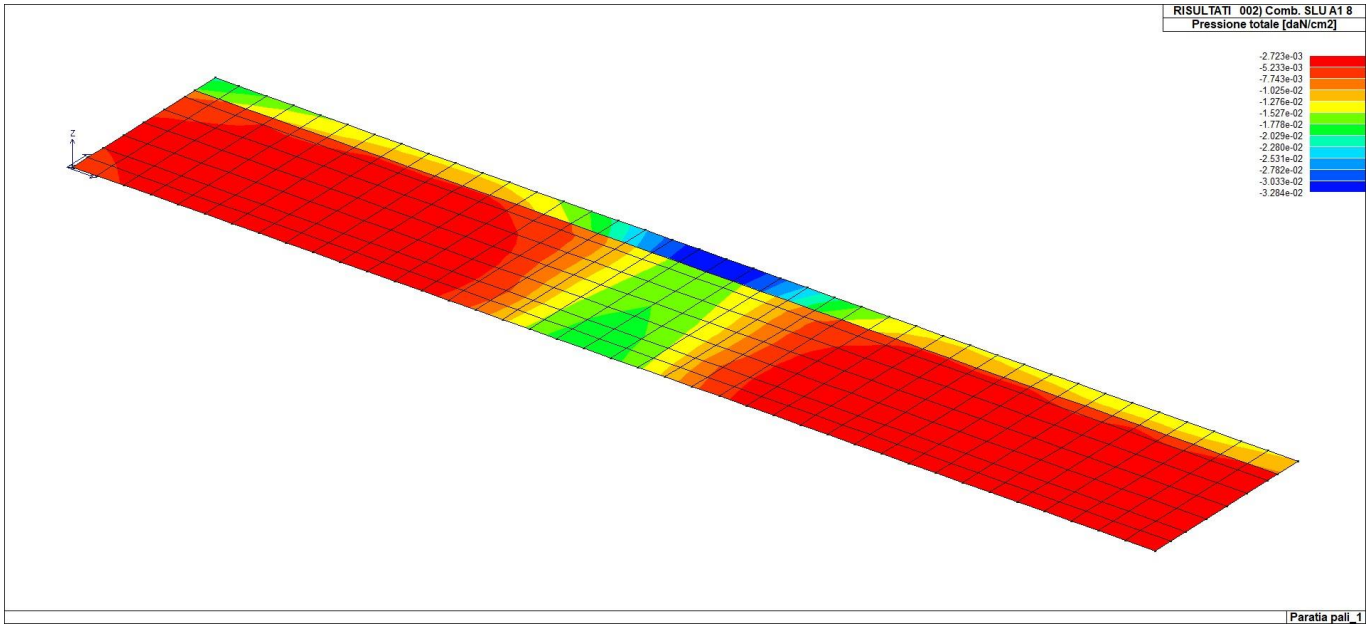
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
161	-4.95e-03	-3.56e-03									
162	-5.39e-03	-3.83e-03									
163	-0.01	-0.01									
164	-0.02	-0.02									
165	-4.95e-03	-4.16e-03									
166	-5.57e-03	-5.36e-03									
167	-0.01	-0.01									
168	-0.02	-0.02									
169	-7.88e-03	-5.58e-03									
170	-0.01	-7.77e-03									
171	-9.45e-03	-6.69e-03									
172	-0.01	-7.94e-03									
173	-8.32e-03	-5.89e-03									
174	-7.12e-03	-5.07e-03									
175	-7.87e-03	-5.59e-03									
176	-6.27e-03	-4.46e-03									
177	-0.01	-8.68e-03									
178	-7.99e-03	-5.65e-03									
179	-9.50e-03	-6.72e-03									
180	-7.92e-03	-5.61e-03									
181	-7.53e-03	-5.33e-03									
182	-8.89e-03	-6.29e-03									
183	-6.37e-03	-4.51e-03									
184	-7.17e-03	-5.07e-03									
185	-7.19e-03	-5.09e-03									
186	-8.46e-03	-5.98e-03									
187	-6.11e-03	-4.33e-03									
188	-7.20e-03	-5.09e-03									
189	-6.83e-03	-4.83e-03									
190	-7.99e-03	-5.64e-03									
191	-5.83e-03	-4.13e-03									
192	-6.60e-03	-4.66e-03									
193	-7.11e-03	-5.02e-03									
194	-8.17e-03	-5.76e-03									
195	-6.18e-03	-4.37e-03									
196	-8.25e-03	-5.84e-03									
197	-9.94e-03	-7.05e-03									
198	-0.01	-7.85e-03									
199	-9.03e-03	-6.41e-03									
200	-0.01	-9.31e-03									
201	-0.02	-0.01									
202	-0.02	-0.01									
203	-0.02	-0.01									
204	-0.02	-0.02									
205	-0.03	-0.02									
206	-0.03	-0.02									
207	-0.03	-0.02									
208	-0.03	-0.02									
209	-0.03	-0.02									
210	-0.03	-0.02									
211	-0.03	-0.02									
212	-0.02	-0.02									
213	-0.02	-0.01									
214	-0.02	-0.01									
215	-0.02	-0.01									
216	-0.01	-9.31e-03									
217	-9.93e-03	-7.03e-03									
218	-0.01	-7.83e-03									
219	-9.02e-03	-6.40e-03									
220	-8.24e-03	-5.83e-03									
221	-7.10e-03	-5.02e-03									
222	-8.15e-03	-5.75e-03									
223	-6.17e-03	-4.37e-03									
224	-6.61e-03	-4.67e-03									
225	-6.85e-03	-4.85e-03									
226	-8.01e-03	-5.66e-03									
227	-5.86e-03	-4.15e-03									
228	-7.26e-03	-5.13e-03									
229	-7.28e-03	-5.16e-03									
230	-8.54e-03	-6.04e-03									
231	-6.22e-03	-4.41e-03									
232	-7.30e-03	-5.17e-03									
233	-7.67e-03	-5.44e-03									
234	-8.99e-03	-6.37e-03									

Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
235	-6.56e-03	-4.66e-03									
236	-7.98e-03	-5.66e-03									
237	-7.77e-03	-5.51e-03									
238	-9.09e-03	-6.44e-03									
239	-6.66e-03	-4.73e-03									
240	-7.51e-03	-5.33e-03									
241	-7.61e-03	-5.40e-03									
242	-8.87e-03	-6.29e-03									
243	-6.55e-03	-4.65e-03									
244	-7.64e-03	-5.42e-03									
245	-7.12e-03	-5.05e-03									
246	-8.22e-03	-5.83e-03									
247	-6.20e-03	-4.40e-03									
248	-6.45e-03	-4.58e-03									
249	-6.01e-03	-4.26e-03									
250	-4.76e-03	-3.41e-03									
251	-4.62e-03	-3.31e-03									
252	-4.45e-03	-3.19e-03									
253	-0.01	-0.01									
254	-0.01	-0.01									
255	-4.42e-03	-3.70e-03									
256	-4.85e-03	-4.69e-03									
257	-4.91e-03	-3.52e-03									
258	-0.01	-0.01									
259	-0.01	-0.01									
260	-5.02e-03	-4.11e-03									
261	-5.58e-03	-5.18e-03									
262	-8.12e-03	-5.83e-03									
263	-0.02	-0.02									
264	-0.02	-0.02									
265	-8.01e-03	-6.24e-03									
266	-8.35e-03	-7.12e-03									
267	-0.02	-0.01									
268	-0.03	-0.02									
269	-0.03	-0.02									
270	-0.02	-0.01									
271	-0.01	-0.01									
272	-0.02	-0.02									
273	-0.04	-0.03									
274	-0.04	-0.03									
275	-0.02	-0.02									
276	-0.02	-0.02									
277	-0.02	-0.02									
278	-0.04	-0.03									
279	-0.04	-0.03									
280	-0.02	-0.02									
281	-0.02	-0.02									
282	-0.02	-0.01									
283	-0.03	-0.02									
284	-0.03	-0.02									
285	-0.02	-0.01									
286	-0.01	-0.01									
287	-8.12e-03	-5.82e-03									
288	-0.02	-0.02									
289	-0.02	-0.02									
290	-8.01e-03	-6.23e-03									
291	-8.35e-03	-7.11e-03									
292	-4.92e-03	-3.53e-03									
293	-0.01	-0.01									
294	-0.01	-0.01									
295	-5.03e-03	-4.11e-03									
296	-5.60e-03	-5.17e-03									
297	-4.50e-03	-3.22e-03									
298	-0.01	-0.01									
299	-0.01	-0.01									
300	-4.48e-03	-3.73e-03									
301	-4.92e-03	-4.71e-03									
302	-4.77e-03	-3.41e-03									
303	-0.01	-0.01									
304	-0.01	-0.01									
305	-4.70e-03	-3.89e-03									
306	-5.10e-03	-4.85e-03									
307	-5.01e-03	-3.59e-03									
308	-0.01	-0.01									

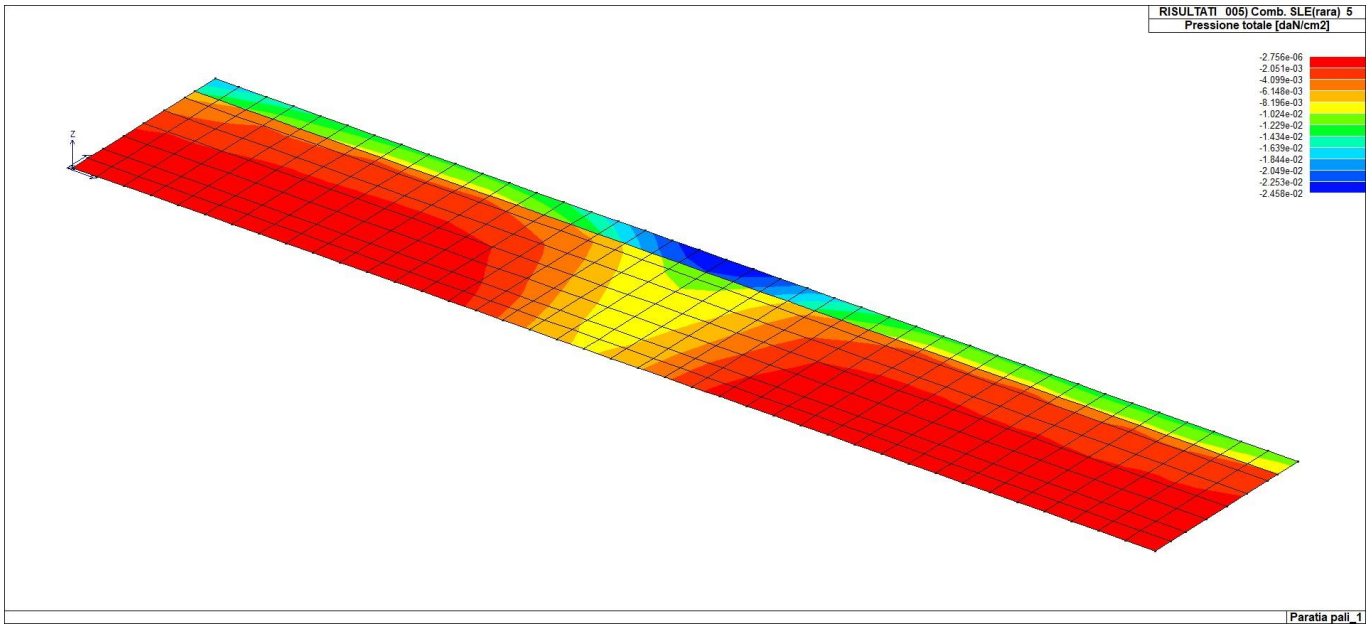
Nodo (G)	Pt 1/12	Pt 2/13	Pt 3...	Pt 4...							
309	-0.01	-0.01									
310	-4.96e-03	-4.08e-03									
311	-5.40e-03	-5.07e-03									
312	-5.14e-03	-3.68e-03									
313	-0.01	-0.01									
314	-0.01	-0.01									
315	-5.09e-03	-4.17e-03									
316	-5.55e-03	-5.17e-03									
317	-5.12e-03	-3.67e-03									
318	-0.01	-0.01									
319	-0.01	-0.01									
320	-5.08e-03	-4.14e-03									
321	-5.52e-03	-5.13e-03									
322	-4.97e-03	-3.55e-03									
323	-0.01	-0.01									
324	-0.01	-0.01									
325	-4.92e-03	-3.99e-03									
326	-5.29e-03	-4.89e-03									
327	-0.01	-0.01									
328	-0.01	-0.01									
329	-4.72e-03	-3.94e-03									
330	-5.21e-03	-5.01e-03									
331	-0.01	-0.01									
332	-0.01	-0.01									
333	-4.55e-03	-3.79e-03									
334	-4.95e-03	-4.78e-03									
335	-5.02e-03	-3.56e-03									
336	-5.07e-03	-3.60e-03									
337	-6.33e-03	-4.50e-03									
338	-5.25e-03	-3.73e-03									
339	-0.02	-0.02									
340	-0.02	-0.01									
341	-0.02	-0.02									
342	-0.02	-0.02									
343	-6.32e-03	-4.50e-03									
344	-8.28e-03	-5.90e-03									
345	-5.10e-03	-3.62e-03									
346	-4.90e-03	-3.48e-03									
347	-5.62e-03	-4.00e-03									
348	-5.48e-03	-3.90e-03									
349	-5.52e-03	-3.93e-03									
350	-5.54e-03	-3.94e-03									
351	-5.17e-03	-3.67e-03									
352	-5.24e-03	-3.73e-03									
353	-4.89e-03	-3.48e-03									
354	-4.86e-03	-3.45e-03									
355	-0.01	-8.40e-03									
356	-8.29e-03	-5.91e-03									
357	-0.03	-0.02									
358	-0.02	-0.02									
359	-0.01	-8.40e-03									
360	-0.02	-0.01									
361	-4.91e-03	-3.49e-03									
362	-5.25e-03	-3.73e-03									
363	-5.36e-03	-3.82e-03									
364	-5.20e-03	-3.70e-03									
365	-5.58e-03	-3.98e-03									
366	-5.59e-03	-3.98e-03									
367	-5.17e-03	-3.67e-03									
368	-5.33e-03	-3.79e-03									
369	-5.00e-03	-3.55e-03									
Nodo (G)	**Pt 1/12**	**Pt 2/13**	**Pt 3...**	**Pt 4...**							
	-0.04										
	-2.94e-03										



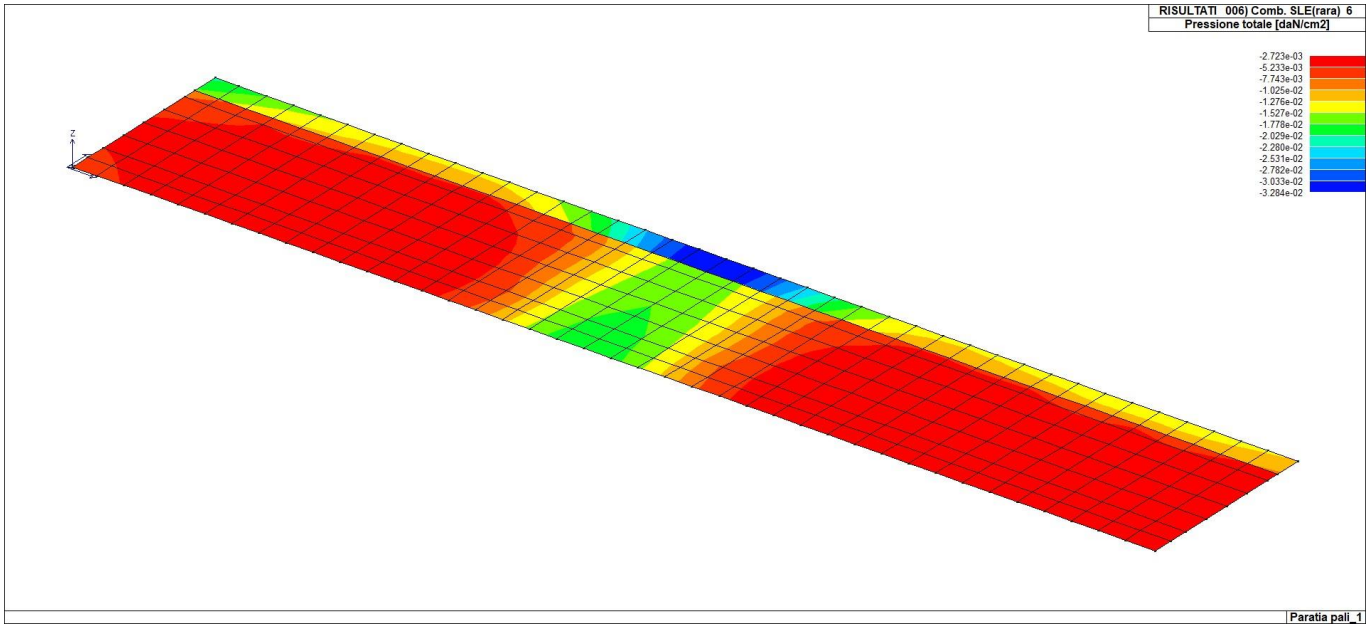
46_RIS_PRESSIONI_001_Comb SLU A1 2



46_RIS_PRESSIONI_002_Comb SLU A1 8



46_RIS_PRESSIONI_005_Comb SLErara 5

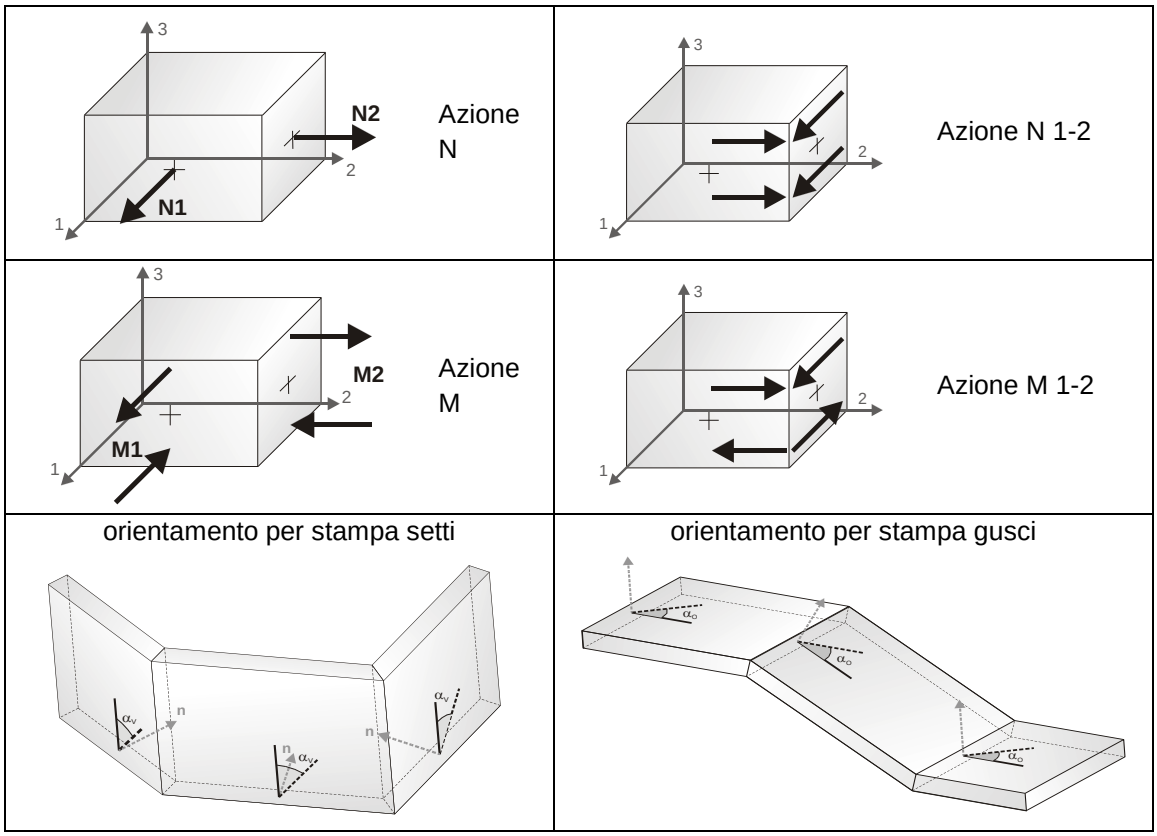


46_RIS_PRESSIONI_006_Comb SLErara 6

RISULTATI ELEMENTI TIPO SHELL

LEGENDA RISULTATI ELEMENTI TIPO SHELL

Il controllo dei risultati delle analisi condotte, per quanto concerne gli elementi tipo shell, è possibile in relazione alle tabelle sottoriportate.
Per ogni elemento, e per ogni combinazione(o caso di carico) vengono riportati i risultati più significativi.



In particolare vengono riportati in ogni nodo di un elemento per ogni combinazione:

tensione di Von Mises		(valore riassuntivo del complessivo stato di sollecitazione)
N max		sforzo membranale principale massimo
N min		sforzo membranale principale minimo
M max		sforzo flessionale principale massimo
M min		sforzo flessionale principale minimo
N1	**N2**	sforzi membranali e flessionali in direzione locale 1 e 2
N1-2	**M1**	dell'elemento (lo sforzo 2-1 è uguale allo sforzo 1-2 per la
M2	**M1-2**	reciprocità delle tensioni tangenziali)

I suddetti risultati possono a scelta del progettista essere preceduti o sostituiti da valori di sollecitazione non più riferiti al sistema locale dell'elemento ma al sistema globale.
In questo caso gli elementi vengono raggruppati in gruppi (M_S: macro gusci o macro setti, raggruppati per materiale, spessore, e posizione fisica) per la valutazione dei valori mediati ai nodi appartenenti agli elementi dei gruppi stessi.
I valori di sollecitazione sono, in questo caso, riferiti ad una terna specifica del gruppo ruotata di α_O attorno all'asse Z per i gusci e ruotata di α_V attorno alla normale (che per definizione è orizzontale) al piano del setto.
Per i setti, in particolare, se α_V è zero, l'asse '1-1 rappresenta la verticale e l'asse '2-2 l'orizzontale contenuta nel setto.
Le azioni sui setti possono essere espresse anche con formato macro, cioè riferite all'intero macroelemento.

In particolare vengono riportati per ogni quota Z dei nodi e per ogni combinazione i seguenti valori:

N memb.	Azione membranale complessiva agente sulla parete in direzione Z
V memb.	Azione complessiva di taglio agente nel piano del macroelemento
V orto	Azione complessiva di taglio agente in direzione perpendicolare al macroelemento
M memb.	Azione flessionale complessiva agente nel piano del macroelemento
M orto	Azione flessionale complessiva agente in direzione perpendicolare al macroelemento
T	Azione torsionale complessiva agente nel piano orizzontale

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
			daN/cm2	daN/cm	daN/cm	daN/cm	daN/cm	daN/cm	daN	daN	daN	daN	daN
1	2	102	1.18	25.53	-32.37	1.97	-8.80	28.45	290.48	-185.06	207.30	-101.88	-180.66
		101	2.74	178.16	32.42	38.20	172.38	28.45	611.35	84.00	305.62	389.73	-260.30
		4	3.04	162.74	-35.04	-30.86	158.56	28.45	381.54	99.32	126.89	353.98	-83.78
		58	1.22	-8.75	-80.96	-67.09	-22.61	28.45	28.67	-137.73	28.56	-137.63	-4.14
1	6	102	1.18	25.53	-32.37	1.97	-8.80	28.45	290.48	-185.06	207.30	-101.88	-180.66
		101	2.74	178.16	32.42	38.20	172.38	28.45	611.35	84.00	305.62	389.73	-260.30
		4	3.04	162.74	-35.04	-30.86	158.56	28.45	381.54	99.32	126.89	353.98	-83.78
		58	1.22	-8.75	-80.96	-67.09	-22.61	28.45	28.67	-137.73	28.56	-137.63	-4.14
2	2	104	2.83	204.95	39.54	46.20	198.29	-32.52	28.72	-14.21	7.60	6.92	-21.46
		103	0.86	33.60	-32.19	5.68	-4.28	-32.52	39.02	13.01	13.85	38.18	-4.60
		8	1.32	-3.65	-86.23	-70.39	-19.50	-32.52	66.29	42.83	61.42	47.69	9.51
		1	3.12	187.93	-34.73	-29.88	183.07	-32.52	56.52	15.09	55.17	16.44	-7.35
2	5	104	2.86	204.94	39.54	46.20	198.28	-32.52	39.78	-4.50	1.26	34.01	-14.90
		103	0.86	33.59	-32.20	5.68	-4.29	-32.52	58.59	6.18	6.18	58.59	-0.12
		8	1.31	-3.66	-86.24	-70.39	-19.50	-32.52	71.95	42.88	47.90	66.94	10.98
		1	3.12	187.92	-34.73	-29.88	183.07	-32.52	46.48	38.85	42.98	42.35	-3.80
3	2	167	2.30	87.13	-4.23	0.27	82.63	-19.77	1152.21	203.43	1092.29	263.35	230.79
		105	1.97	12.58	-29.90	-16.43	-0.89	-19.77	1023.13	-246.82	995.73	-219.42	184.52
		40	2.14	-0.84	-60.82	-53.38	-8.28	-19.77	880.14	-242.62	880.07	-242.55	-8.59
		168	2.43	78.62	-40.07	-36.68	75.23	-19.77	978.55	238.30	976.63	240.22	37.68
3	6	167	2.30	87.13	-4.23	0.27	82.63	-19.77	1152.21	203.43	1092.29	263.35	230.79
		105	1.97	12.58	-29.90	-16.43	-0.89	-19.77	1023.13	-246.82	995.73	-219.42	184.52
		40	2.14	-0.84	-60.82	-53.38	-8.28	-19.77	880.14	-242.62	880.07	-242.55	-8.59
		168	2.43	78.62	-40.07	-36.68	75.23	-19.77	978.55	238.30	976.63	240.22	37.68
4	1	11	3.80	0.36	0.12	0.17	0.31	0.10	1124.50	832.48	863.71	1093.28	90.24
		160	2.99	0.19	-0.03	0.12	0.04	0.10	867.97	695.56	798.13	765.39	-84.64
		159	2.61	0.10	-0.09	-3.76e-03	0.02	0.10	787.19	251.69	360.94	677.95	-215.79
		158	3.30	0.32	0.02	0.05	0.29	0.10	1008.71	423.64	426.51	1005.84	-40.91
4	6	11	2.04	25.63	9.63	10.20	25.05	-2.98	410.81	-175.57	306.89	-71.65	-223.91
		160	3.03	10.69	4.54	6.87	8.36	-2.98	800.52	119.82	421.07	499.27	-338.10
		159	1.84	8.77	0.83	2.18	7.42	-2.98	477.41	100.39	135.62	442.18	-109.73
		158	1.07	24.58	5.05	5.52	24.11	-2.98	21.57	-128.87	21.44	-128.74	4.45
5	2	336	1.45	18.96	9.88	10.55	18.29	-2.38	277.72	-51.20	74.85	151.67	-159.91
		335	3.84	9.14	3.47	7.85	4.76	-2.38	1102.16	248.74	262.24	1088.66	-106.48
		31	4.09	4.14	-2.01	-0.88	3.02	-2.38	1204.41	306.79	395.82	1115.38	268.31
		251	1.63	16.92	1.45	1.82	16.54	-2.38	408.81	-22.00	208.42	178.39	214.88
5	6	336	1.45	18.96	9.88	10.55	18.29	-2.38	277.72	-51.20	74.85	151.67	-159.91
		335	3.84	9.14	3.47	7.85	4.76	-2.38	1102.16	248.74	262.24	1088.66	-106.48
		31	4.09	4.14	-2.01	-0.88	3.02	-2.38	1204.41	306.79	395.82	1115.38	268.31
		251	1.63	16.92	1.45	1.82	16.54	-2.38	408.81	-22.00	208.42	178.39	214.88
6	2	338	2.53	18.68	8.64	8.90	18.42	1.60	717.32	224.91	645.63	296.59	-173.67
		337	4.27	7.29	3.84	6.20	4.93	1.60	1263.57	805.31	833.41	1235.47	-109.94
		32	4.73	3.95	-1.70	-1.20	3.45	1.60	1429.04	831.03	992.73	1267.34	265.62
		257	2.99	17.10	1.33	1.49	16.94	1.60	878.99	254.42	804.95	328.45	201.89
6	6	338	2.53	18.68	8.64	8.90	18.42	1.60	717.32	224.91	645.63	296.59	-173.67
		337	4.27	7.29	3.84	6.20	4.93	1.60	1263.57	805.31	833.41	1235.47	-109.94
		32	4.73	3.95	-1.70	-1.20	3.45	1.60	1429.04	831.03	992.73	1267.34	265.62
		257	2.99	17.10	1.33	1.49	16.94	1.60	878.99	254.42	804.95	328.45	201.89
7	1	340	3.51	-0.02	-0.39	-0.39	-0.03	-0.02	-13.70	-940.78	-671.78	-282.70	-420.74
		339	3.33	3.47e-03	-0.39	-0.39	2.83e-03	-0.02	76.92	-843.98	-640.54	-126.52	-382.05

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		33	2.80	0.03	-0.26	-0.26	0.03	-0.02	61.54	-712.52	-543.81	-107.17	-319.57
		267	2.99	1.41e-03	-0.26	-0.26	4.55e-04	-0.02	-28.50	-809.90	-575.04	-263.35	-358.27
7	6	340	2.78	19.40	0.43	3.12	16.70	6.63	-113.91	-706.06	-505.38	-314.60	-280.29
		339	2.49	18.23	8.42e-04	2.86	15.37	6.63	17.23	-598.54	-465.60	-115.70	-253.35
		33	1.92	17.36	-2.46	0.09	14.82	6.63	-21.97	-478.52	-398.26	-102.23	-173.79
		267	2.25	18.56	-2.06	0.35	16.14	6.63	-157.50	-581.66	-438.03	-301.13	-200.73
8	1	342	6.23	4.46e-03	-0.39	-0.39	4.43e-03	-3.49e-03	-321.30	-1795.22	-1768.87	-347.65	195.28
		341	6.37	2.43e-03	-0.39	-0.39	2.40e-03	-3.49e-03	-296.56	-1825.86	-1769.86	-352.56	287.26
		34	5.62	0.02	-0.32	-0.32	0.02	-3.49e-03	-243.78	-1602.71	-1539.92	-306.58	285.29
		277	5.45	0.02	-0.32	-0.32	0.02	-3.49e-03	-272.16	-1568.44	-1538.94	-301.66	193.31
8	4	342	4.46	3.53e-03	-0.28	-0.28	3.53e-03	-6.84e-04	-218.43	-1282.11	-1264.53	-236.01	135.62
		341	4.56	2.59e-03	-0.28	-0.28	2.59e-03	-6.84e-04	-202.72	-1302.98	-1265.39	-240.32	199.88
		34	4.03	0.01	-0.23	-0.23	0.01	-6.84e-04	-166.35	-1146.60	-1104.76	-208.19	198.15
		277	3.92	0.01	-0.23	-0.23	0.01	-6.84e-04	-184.39	-1123.40	-1103.90	-203.88	133.90
9	1	344	4.34	0.16	0.01	0.02	0.16	-0.02	1283.34	317.13	1141.94	458.53	-341.50
		343	4.45	0.05	-0.01	-7.26e-03	0.05	-0.02	1353.58	866.56	1245.22	974.92	-202.56
		35	5.26	-0.02	-0.33	-0.33	-0.02	-0.02	1592.60	1044.36	1592.57	1044.39	4.00
		287	4.99	0.09	-0.31	-0.31	0.09	-0.02	1507.88	509.42	1489.29	528.00	-134.94
9	6	344	3.55	21.28	4.17	7.17	18.28	-6.51	944.54	100.97	869.25	176.26	-240.51
		343	4.80	11.23	-1.79	4.50	4.94	-6.51	1378.36	985.34	1088.95	1274.75	-173.16
		35	5.19	7.96	-6.18	-1.88	3.66	-6.51	1550.33	1015.42	1257.32	1308.43	266.23
		287	4.02	19.29	-1.50	0.78	17.00	-6.51	1082.94	164.63	1037.63	209.94	198.89
10	2	346	1.65	19.78	7.81	9.14	18.45	-3.76	333.48	-32.26	133.77	167.45	-182.09
		345	3.83	9.66	2.02	6.49	5.19	-3.76	1103.28	295.95	316.77	1082.46	-127.97
		36	3.96	5.71	-3.24	-1.19	3.65	-3.76	1186.66	374.94	452.08	1109.52	238.03
		297	1.61	17.78	0.60	1.47	16.92	-3.76	419.45	44.14	269.08	194.52	183.91
10	6	346	1.65	19.78	7.81	9.14	18.45	-3.76	333.48	-32.26	133.77	167.45	-182.09
		345	3.83	9.66	2.02	6.49	5.19	-3.76	1103.28	295.95	316.77	1082.46	-127.97
		36	3.96	5.71	-3.24	-1.19	3.65	-3.76	1186.66	374.94	452.08	1109.52	238.03
		297	1.61	17.78	0.60	1.47	16.92	-3.76	419.45	44.14	269.08	194.52	183.91
11	2	348	1.57	18.27	9.21	9.32	18.16	-0.96	305.35	-84.15	47.56	173.64	-184.26
		347	3.96	7.04	4.35	6.64	4.76	-0.96	1127.17	217.93	234.87	1110.23	-122.95
		37	4.17	3.44	-1.20	-0.99	3.23	-0.96	1217.28	311.75	388.15	1140.88	251.68
		307	1.59	16.70	1.63	1.70	16.64	-0.96	392.94	12.19	200.84	204.30	190.37
11	6	348	1.57	18.27	9.21	9.32	18.16	-0.96	305.35	-84.15	47.56	173.64	-184.26
		347	3.96	7.04	4.35	6.64	4.76	-0.96	1127.17	217.93	234.87	1110.23	-122.95
		37	4.17	3.44	-1.20	-0.99	3.23	-0.96	1217.28	311.75	388.15	1140.88	251.68
		307	1.59	16.70	1.63	1.70	16.64	-0.96	392.94	12.19	200.84	204.30	190.37
12	2	350	1.35	17.99	7.42	8.28	17.13	2.89	287.85	-79.39	54.02	154.45	-176.62
		349	3.77	8.40	2.57	5.87	5.10	2.89	1081.85	219.92	236.24	1065.54	-117.45
		38	4.09	6.02	-0.41	1.40	4.20	2.89	1172.51	306.78	384.17	1095.13	246.99
		317	1.67	16.88	3.17	3.81	16.24	2.89	381.02	4.96	201.95	184.03	187.82
12	6	350	1.35	17.99	7.42	8.28	17.13	2.89	287.85	-79.39	54.02	154.45	-176.62
		349	3.77	8.40	2.57	5.87	5.10	2.89	1081.85	219.92	236.24	1065.54	-117.45
		38	4.09	6.02	-0.41	1.40	4.20	2.89	1172.51	306.78	384.17	1095.13	246.99
		317	1.67	16.88	3.17	3.81	16.24	2.89	381.02	4.96	201.95	184.03	187.82
13	2	163	1.87	84.14	-13.30	-9.68	80.53	-18.41	480.48	-204.67	136.42	139.39	-342.57
		99	1.20	3.58	-38.26	-27.27	-7.41	-18.41	478.83	-108.12	152.24	218.47	-291.60
		61	1.13	-1.45	-49.32	-40.68	-10.09	-18.41	522.39	1.22	279.66	243.95	-259.97
		164	1.82	81.10	-26.35	-23.09	77.85	-18.41	529.21	-100.49	263.84	164.87	-310.94
13	6	163	1.87	84.14	-13.30	-9.68	80.53	-18.41	480.48	-204.67	136.42	139.39	-342.57
		99	1.20	3.58	-38.26	-27.27	-7.41	-18.41	478.83	-108.12	152.24	218.47	-291.60
		61	1.13	-1.45	-49.32	-40.68	-10.09	-18.41	522.39	1.22	279.66	243.95	-259.97
		164	1.82	81.10	-26.35	-23.09	77.85	-18.41	529.21	-100.49	263.84	164.87	-310.94
14	1	352	2.43	0.07	0.05	0.05	0.07	1.57e-03	648.69	1.05	136.49	513.26	263.39
		351	1.09	0.11	0.05	0.05	0.11	1.57e-03	270.63	-34.68	67.52	168.43	144.07
		62	1.13	0.11	0.07	0.07	0.11	1.57e-03	108.88	-230.86	-230.75	108.77	6.14
		250	2.23	0.07	0.06	0.06	0.07	1.57e-03	478.19	-186.38	-161.79	453.60	125.45
14	4	352	1.76	0.05	0.03	0.03	0.05	4.23e-04	472.24	5.23	98.65	378.81	186.82
		351	0.80	0.08	0.04	0.04	0.08	4.23e-04	201.90	-18.89	49.57	133.44	102.13
		62	0.83	0.08	0.05	0.05	0.08	4.23e-04	91.15	-162.22	-162.16	91.09	3.97
		250	1.62	0.05	0.04	0.04	0.05	4.23e-04	353.32	-129.94	-113.08	336.47	88.67
15	2	327	1.87	85.62	-17.77	-12.78	80.63	-22.16	660.70	123.69	518.03	266.36	237.19
		106	1.53	10.45	-41.64	-29.29	-1.91	-22.16	477.55	-259.91	423.57	-205.93	192.08
		42	1.36	4.63	-55.32	-45.53	-5.16	-22.16	310.81	-228.51	310.79	-228.49	3.16
		328	1.71	81.81	-33.45	-29.03	77.38	-22.16	418.58	230.47	405.25	243.81	48.28
15	6	327	1.87	85.62	-17.77	-12.78	80.63	-22.16	660.70	123.69	518.03	266.36	237.19
		106	1.53	10.45	-41.64	-29.29	-1.91	-22.16	477.55	-259.91	423.57	-205.93	192.08
		42	1.36	4.63	-55.32	-45.53	-5.16	-22.16	310.81	-228.51	310.79	-228.49	3.16
		328	1.71	81.81	-33.45	-29.03	77.38	-22.16	418.58	230.47	405.25	243.81	48.28
16	2	331	1.79	84.34	-16.21	-12.81	80.94	-18.17	290.74	-149.94	-10.75	151.54	-204.85
		100	0.99	2.58	-40.47	-30.48	-7.42	-18.17	253.75	-103.28	-9.13	159.60	-157.32
		64	0.98	-1.47	-49.94	-41.74	-9.67	-18.17	304.97	-11.91	109.70	183.37	-154.10
		332	1.79	81.81	-27.19	-24.07	78.69	-18.17	346.11	-62.72	108.08	175.31	-201.63

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
16	6	331	1.79	84.34	-16.21	-12.81	80.94	-18.17	290.74	-149.94	-10.75	151.54	-204.85
		100	0.99	2.58	-40.47	-30.48	-7.42	-18.17	253.75	-103.28	-9.13	159.60	-157.32
		64	0.98	-1.47	-49.94	-41.74	-9.67	-18.17	304.97	-11.91	109.70	183.37	-154.10
		332	1.79	81.81	-27.19	-24.07	78.69	-18.17	346.11	-62.72	108.08	175.31	-201.63
17	1	354	2.34	0.06	0.04	0.04	0.05	7.03e-03	680.60	139.97	332.86	487.72	258.99
		353	1.35	0.08	0.05	0.05	0.08	7.03e-03	395.91	90.16	277.11	208.97	149.03
		65	0.62	0.09	0.07	0.08	0.08	7.03e-03	162.77	-6.55	2.22	153.99	37.53
		252	1.80	0.08	0.06	0.08	0.06	7.03e-03	483.82	6.90	57.97	432.74	147.48
17	4	354	1.69	0.04	0.03	0.03	0.04	4.56e-03	494.30	105.60	239.48	360.43	184.70
		353	0.98	0.06	0.03	0.03	0.06	4.56e-03	289.73	72.84	199.92	162.65	106.84
		65	0.49	0.06	0.05	0.06	0.06	4.56e-03	129.88	-0.91	5.26	123.72	27.72
		252	1.32	0.06	0.04	0.05	0.04	4.56e-03	357.19	9.12	44.81	321.50	105.59
18	2	253	2.64	85.50	-16.35	-11.83	80.97	-20.99	1298.84	177.23	1184.42	291.65	339.47
		107	2.39	9.48	-40.07	-28.45	-2.14	-20.99	1135.87	-334.40	1071.99	-270.52	299.74
		44	2.24	3.96	-53.13	-43.93	-5.24	-20.99	977.09	-294.81	972.66	-290.39	74.87
		254	2.50	81.91	-31.34	-27.31	77.88	-20.99	1100.94	255.94	1085.10	271.78	114.60
18	6	253	2.64	85.50	-16.35	-11.83	80.97	-20.99	1298.84	177.23	1184.42	291.65	339.47
		107	2.39	9.48	-40.07	-28.45	-2.14	-20.99	1135.87	-334.40	1071.99	-270.52	299.74
		44	2.24	3.96	-53.13	-43.93	-5.24	-20.99	977.09	-294.81	972.66	-290.39	74.87
		254	2.50	81.91	-31.34	-27.31	77.88	-20.99	1100.94	255.94	1085.10	271.78	114.60
19	2	258	2.59	84.11	-11.06	-8.00	81.05	-16.79	1386.33	109.20	1350.72	144.81	-210.25
		108	2.06	2.22	-35.85	-25.78	-7.85	-16.79	1367.99	100.68	1346.25	122.42	-164.56
		67	2.32	-1.18	-43.05	-34.62	-9.62	-16.79	1482.97	122.76	1460.47	145.27	-173.51
		259	2.82	82.13	-19.69	-16.84	79.28	-16.79	1500.98	131.61	1464.95	167.65	-219.20
19	6	258	2.59	84.11	-11.06	-8.00	81.05	-16.79	1386.33	109.20	1350.72	144.81	-210.25
		108	2.06	2.22	-35.85	-25.78	-7.85	-16.79	1367.99	100.68	1346.25	122.42	-164.56
		67	2.32	-1.18	-43.05	-34.62	-9.62	-16.79	1482.97	122.76	1460.47	145.27	-173.51
		259	2.82	82.13	-19.69	-16.84	79.28	-16.79	1500.98	131.61	1464.95	167.65	-219.20
20	1	356	5.35	0.10	-0.24	-0.24	0.10	-8.03e-03	1579.70	389.75	1449.18	520.27	371.85
		355	5.39	0.08	-0.25	-0.25	0.08	-8.03e-03	1318.64	-212.44	1305.31	-199.11	142.26
		68	3.62	0.09	-0.20	-0.20	0.09	-8.03e-03	751.20	-333.78	731.32	-313.90	-145.50
		262	2.90	0.11	-0.20	-0.20	0.11	-8.03e-03	889.80	390.87	875.20	405.47	84.10
20	6	356	3.47	18.77	0.90	2.40	17.27	4.95	980.48	156.46	948.12	188.82	160.06
		355	3.86	19.79	1.19	2.62	18.36	4.95	879.96	-153.85	879.65	-153.54	18.06
		68	2.99	19.38	-0.33	1.01	18.04	4.95	543.06	-242.95	524.64	-224.54	-118.89
		262	2.20	18.35	-0.61	0.79	16.95	4.95	594.24	116.70	593.11	117.82	23.11
21	1	263	4.31	0.02	-0.04	-0.02	0.01	-0.02	3376.10	324.10	3375.80	324.40	30.47
		109	4.41	0.03	-0.03	-0.02	0.02	-0.02	3322.25	44.68	3320.25	46.68	-80.88
		46	4.10	7.26e-03	-0.10	-0.10	1.47e-03	-0.02	3053.91	-21.03	3041.87	-9.00	-191.97
		264	3.98	2.91e-03	-0.10	-0.10	-3.08e-03	-0.02	3099.71	266.43	3097.42	268.73	-80.62
21	6	263	3.95	85.09	-7.49	-3.21	80.81	-19.44	2518.03	305.14	2507.28	315.89	153.90
		109	3.68	9.75	-32.68	-19.97	-2.96	-19.44	2408.42	-187.65	2406.88	-186.11	63.27
		46	3.49	5.55	-40.78	-30.22	-5.01	-19.44	2188.12	-239.24	2180.30	-231.42	-137.53
		264	3.74	82.69	-17.40	-13.47	78.76	-19.44	2281.80	269.49	2280.70	270.58	-46.90
22	1	268	3.78	-0.03	-0.43	-0.42	-0.04	-0.04	450.68	-2575.43	-2059.80	-64.95	-1137.75
		110	3.87	5.82e-03	-0.42	-0.42	1.98e-03	-0.04	881.47	-2346.63	-1949.87	484.71	-1059.88
		70	3.38	0.06	-0.15	-0.14	0.06	-0.04	799.82	-2031.38	-1755.20	523.64	-840.02
		269	3.27	0.03	-0.16	-0.15	0.02	-0.04	353.70	-2244.85	-1865.13	-26.01	-917.89
22	6	268	3.71	83.26	0.45	3.60	80.11	-15.85	443.56	-1910.37	-1455.30	-11.52	-929.58
		110	3.30	4.63	-27.54	-14.17	-8.74	-15.85	744.03	-1720.43	-1373.56	397.17	-857.05
		70	2.89	4.32	-27.92	-14.74	-8.86	-15.85	689.12	-1447.93	-1192.24	433.43	-693.57
		269	3.32	83.13	-0.11	3.03	79.99	-15.85	379.67	-1628.89	-1273.97	24.75	-766.10
23	1	358	7.76	5.58e-03	-0.39	-0.39	5.56e-03	2.63e-03	-435.13	-2249.35	-2242.26	-442.22	-113.17
		357	7.72	3.12e-03	-0.39	-0.39	3.10e-03	2.63e-03	-456.52	-2246.02	-2245.27	-457.27	-36.47
		71	7.06	0.02	-0.33	-0.33	0.02	2.63e-03	-417.81	-2054.64	-2053.53	-418.92	-42.49
		272	7.11	0.02	-0.33	-0.33	0.02	2.63e-03	-395.29	-2059.11	-2050.53	-403.87	-119.18
23	6	358	5.59	15.37	1.14	1.37	15.14	1.81	-317.43	-1598.20	-1593.88	-321.75	-74.28
		357	5.57	15.28	1.12	1.36	15.05	1.81	-322.83	-1594.71	-1594.20	-323.34	-25.50
		71	5.19	14.98	-0.31	-0.09	14.76	1.81	-298.37	-1472.83	-1472.25	-298.95	-26.14
		272	5.21	15.06	-0.29	-0.07	14.85	1.81	-292.61	-1476.69	-1471.93	-297.36	-74.91
24	1	273	8.35	-1.91e-03	-0.35	-0.35	-1.91e-03	-9.03e-04	13.90	-6235.63	-6229.12	7.40	-201.55
		111	8.40	-3.03e-03	-0.35	-0.35	-3.03e-03	-9.03e-04	140.29	-6209.43	-6203.69	134.55	-190.79
		48	8.36	0.01	-0.26	-0.26	0.01	-9.03e-04	143.03	-6179.89	-6176.79	139.93	-139.93
		274	8.31	0.01	-0.26	-0.26	0.01	-9.03e-04	16.43	-6205.88	-6202.23	12.77	-150.69
24	6	273	6.66	84.32	2.00	6.54	79.78	-18.79	40.97	-4490.89	-4485.04	35.13	-162.62
		111	6.22	9.01	-28.65	-11.12	-8.52	-18.79	134.52	-4471.64	-4466.24	129.13	-157.60
		48	6.11	12.62	-25.02	-5.08	-7.31	-18.79	134.77	-4456.83	-4453.69	131.64	-120.00
		274	6.56	85.81	7.76	12.58	80.99	-18.79	41.10	-4475.96	-4472.49	37.64	-125.02
25	1	278	6.74	-5.00e-03	-0.37	-0.37	-5.24e-03	9.43e-03	370.98	-4846.26	-4773.44	298.17	612.05
		112	6.60	0.01	-0.37	-0.37	0.01	9.43e-03	-12.11	-4936.84	-4852.39	-96.56	639.35
		73	6.44	0.04	-0.25	-0.25	0.04	9.43e-03	-34.11	-4832.94	-4784.14	-82.91	481.46
		279	6.60	0.02	-0.25	-0.25	0.02	9.43e-03	352.60	-4745.98	-4705.20	311.81	454.16
25	6	278	5.43	84.94	0.22	5.69	79.47	-20.82	315.21	-3472.06	-3407.08	250.23	491.81
		112	4.81	10.64	-31.13	-11.92	-8.57	-20.82	50.93	-3534.12	-3461.47	-21.72	505.16

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		73	4.76	13.91	-27.74	-6.38	-7.46	-20.82	30.39	-3473.52	-3428.09	-15.04	396.38
		279	5.30	86.35	5.46	11.23	80.58	-20.82	296.88	-3413.67	-3373.70	256.91	383.02
26	1	360	4.11	5.55e-03	-0.25	-0.25	5.54e-03	-1.33e-03	967.67	-220.70	746.22	0.75	462.73
		359	3.97	0.08	-0.23	-0.23	0.08	-1.33e-03	780.12	-422.60	681.31	-323.80	330.26
		74	2.74	0.08	-0.25	-0.25	0.08	-1.33e-03	400.91	-440.83	350.12	-390.04	200.44
		282	2.75	1.87e-03	-0.27	-0.27	1.86e-03	-1.33e-03	585.33	-235.79	415.03	-65.49	332.91
26	6	360	2.92	18.46	-1.09	1.04	16.33	-6.09	529.02	-233.86	422.58	-127.43	264.33
		359	2.93	20.14	-0.58	1.40	18.16	-6.09	457.10	-308.64	398.13	-249.68	204.14
		74	2.46	19.93	-1.25	0.67	18.01	-6.09	289.96	-322.07	247.66	-279.77	155.24
		282	2.41	18.25	-1.76	0.31	16.18	-6.09	361.53	-246.93	272.11	-157.52	215.43
27	1	283	3.74	-6.02e-03	-0.32	-0.32	-0.01	0.04	2737.23	-113.95	1898.00	725.28	1299.42
		113	3.72	-0.03	-0.33	-0.32	-0.04	0.04	2262.08	-845.07	1696.95	-279.94	1198.57
		50	2.86	0.01	-0.12	-0.11	3.82e-03	0.04	1749.79	-635.34	1444.82	-330.37	796.48
		284	2.83	0.04	-0.12	-0.11	0.03	0.04	2180.62	140.11	1645.87	674.86	897.33
27	6	283	3.82	86.10	-5.10	1.69	79.31	-23.94	2204.00	-140.26	1488.06	575.68	1079.71
		113	3.68	16.10	-33.30	-14.68	-2.52	-23.94	1750.12	-866.34	1291.40	-407.63	994.88
		50	2.90	12.97	-37.96	-21.17	-3.82	-23.94	1287.58	-658.30	1079.32	-450.04	601.56
		284	3.01	84.43	-11.23	-4.80	78.01	-23.94	1685.03	124.22	1275.98	533.27	686.39
28	1	288	3.19	0.09	0.02	0.07	0.04	0.03	2452.53	133.42	2449.82	136.12	-79.16
		114	3.19	0.08	-6.90e-03	0.06	8.87e-03	0.03	2451.66	145.14	2451.63	145.16	-7.66
		76	3.40	-0.01	-0.11	-0.10	-0.02	0.03	2630.38	180.91	2630.37	180.91	-4.05
		289	3.41	0.01	-0.11	-0.10	3.98e-03	0.03	2630.88	169.55	2628.56	171.87	-75.54
28	6	288	2.96	84.79	-7.37	-2.81	80.23	-19.98	1710.45	144.29	1703.22	151.52	-106.18
		114	2.46	7.06	-34.92	-20.35	-7.50	-19.98	1712.06	189.17	1710.97	190.26	-40.75
		76	2.74	4.47	-39.10	-26.00	-8.63	-19.98	1874.93	222.59	1874.54	222.98	-25.26
		289	3.21	83.45	-12.80	-8.45	79.10	-19.98	1871.67	179.37	1866.79	184.24	-90.69
29	1	362	2.69	0.05	-0.02	6.09e-03	0.03	-0.03	824.46	356.22	594.51	586.17	234.08
		361	1.84	0.09	1.84e-03	0.02	0.08	-0.03	561.70	226.93	529.17	259.46	99.16
		77	0.75	0.11	0.05	0.07	0.09	-0.03	223.46	160.40	191.86	192.00	-31.53
		292	1.81	0.09	0.02	0.06	0.04	-0.03	554.65	221.26	257.21	518.71	103.40
29	4	362	1.93	0.04	-0.01	5.00e-03	0.02	-0.02	594.34	264.45	427.51	431.28	164.94
		361	1.32	0.07	2.63e-03	0.01	0.06	-0.02	404.31	175.69	381.05	198.95	69.12
		77	0.57	0.08	0.04	0.05	0.07	-0.02	170.56	121.99	141.50	151.04	-23.81
		292	1.33	0.06	0.01	0.05	0.03	-0.02	407.04	164.30	187.97	383.37	72.01
30	2	293	3.13	86.00	-12.61	-7.05	80.44	-22.75	1662.75	118.89	1593.53	188.11	319.48
		115	2.78	12.29	-38.00	-23.56	-2.14	-22.75	1562.81	-222.74	1519.94	-179.87	273.33
		52	2.67	7.32	-47.96	-36.01	-4.63	-22.75	1414.39	-212.78	1404.55	-202.94	126.14
		294	3.02	83.00	-24.54	-19.49	77.95	-22.75	1500.38	142.80	1478.14	165.03	172.29
30	6	293	3.13	86.00	-12.61	-7.05	80.44	-22.75	1662.75	118.89	1593.53	188.11	319.48
		115	2.78	12.29	-38.00	-23.56	-2.14	-22.75	1562.81	-222.74	1519.94	-179.87	273.33
		52	2.67	7.32	-47.96	-36.01	-4.63	-22.75	1414.39	-212.78	1404.55	-202.94	126.14
		294	3.02	83.00	-24.54	-19.49	77.95	-22.75	1500.38	142.80	1478.14	165.03	172.29
31	2	298	1.57	84.52	-12.77	-8.96	80.72	-18.86	322.37	-57.58	178.31	86.48	-184.34
		116	0.84	4.16	-38.15	-26.59	-7.41	-18.86	337.61	65.21	201.32	201.51	-136.20
		79	0.88	0.71	-45.19	-35.32	-9.15	-18.86	375.82	171.44	321.68	225.58	-90.19
		299	1.50	82.52	-21.25	-17.70	78.97	-18.86	371.90	37.33	298.68	110.56	-138.33
31	5	298	1.63	84.52	-12.79	-8.99	80.71	-18.86	252.34	-72.71	64.13	115.49	-160.48
		116	0.86	4.15	-38.17	-26.61	-7.41	-18.86	273.84	3.22	80.37	196.68	-122.17
		79	0.80	0.71	-45.21	-35.35	-9.16	-18.86	287.86	104.12	176.14	215.84	-89.70
		299	1.59	82.51	-21.27	-17.73	78.97	-18.86	275.90	18.65	159.90	134.65	-128.01
32	1	364	2.12	0.07	-0.02	-0.02	0.07	-0.02	560.83	-10.78	108.39	441.66	232.20
		363	0.88	0.11	-0.02	-0.01	0.10	-0.02	218.37	-31.02	47.94	139.41	116.01
		80	1.10	0.11	1.85e-03	4.88e-03	0.11	-0.02	81.39	-242.61	-242.53	81.32	-4.89
		302	2.01	0.08	-6.38e-03	-2.27e-03	0.07	-0.02	404.68	-203.19	-182.08	383.57	111.30
32	4	364	1.54	0.05	-0.02	-0.01	0.05	-0.01	409.55	-3.41	78.63	327.51	164.77
		363	0.65	0.08	-0.01	-9.35e-03	0.08	-0.01	164.91	-16.59	35.66	112.66	82.18
		80	0.81	0.08	1.09e-03	3.18e-03	0.08	-0.01	71.42	-170.87	-170.81	71.37	-3.76
		302	1.47	0.06	-4.88e-03	-2.05e-03	0.05	-0.01	300.72	-142.34	-127.84	286.22	78.83
33	2	303	1.92	85.68	-15.18	-10.25	80.76	-21.73	664.55	-39.80	384.86	239.89	344.63
		117	1.57	10.44	-39.52	-26.85	-2.23	-21.73	438.84	-344.26	296.50	-201.92	302.00
		54	1.31	5.31	-50.89	-40.60	-4.98	-21.73	224.94	-258.26	189.92	-223.24	125.28
		304	1.68	82.44	-28.44	-24.00	78.01	-21.73	418.97	77.89	278.28	218.57	167.91
33	6	303	1.92	85.68	-15.18	-10.25	80.76	-21.73	664.55	-39.80	384.86	239.89	344.63
		117	1.57	10.44	-39.52	-26.85	-2.23	-21.73	438.84	-344.26	296.50	-201.92	302.00
		54	1.31	5.31	-50.89	-40.60	-4.98	-21.73	224.94	-258.26	189.92	-223.24	125.28
		304	1.68	82.44	-28.44	-24.00	78.01	-21.73	418.97	77.89	278.28	218.57	167.91
34	2	308	2.03	84.30	-12.92	-9.46	80.85	-17.99	153.06	-501.70	-461.64	113.00	-156.93
		118	1.29	3.08	-37.87	-27.16	-7.63	-17.99	186.36	-469.63	-450.75	167.48	-109.67
		82	1.24	-0.25	-44.90	-35.79	-9.36	-17.99	205.46	-346.97	-332.62	191.10	-87.88
		309	2.00	82.35	-21.32	-18.09	79.12	-17.99	172.05	-378.93	-343.51	136.63	-135.14
34	6	308	2.03	84.30	-12.92	-9.46	80.85	-17.99	153.06	-501.70	-461.64	113.00	-156.93
		118	1.29	3.08	-37.87	-27.16	-7.63	-17.99	186.36	-469.63	-450.75	167.48	-109.67
		82	1.24	-0.25	-44.90	-35.79	-9.36	-17.99	205.46	-346.97	-332.62	191.10	-87.88
		309	2.00	82.35	-21.32	-18.09	79.12	-17.99	172.05	-378.93	-343.51	136.63	-135.14

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
35	1	366	2.41	0.07	-0.04	-0.04	0.07	-8.92e-03	619.57	-41.48	103.76	474.32	273.71
		365	1.06	0.11	-0.03	-0.03	0.11	-8.92e-03	240.61	-71.89	35.54	133.19	148.43
		83	1.20	0.11	-0.02	-0.02	0.11	-8.92e-03	70.96	-278.08	-277.67	70.55	11.97
		312	2.24	0.08	-0.03	-0.02	0.07	-8.92e-03	440.66	-238.42	-209.45	411.68	137.26
35	4	366	1.74	0.05	-0.03	-0.03	0.05	-6.51e-03	451.63	-25.24	75.30	351.09	194.51
		365	0.78	0.08	-0.02	-0.02	0.08	-6.51e-03	180.23	-45.39	26.71	108.13	105.21
		83	0.88	0.08	-0.01	-0.01	0.08	-6.51e-03	63.73	-196.80	-196.55	63.48	8.03
		312	1.63	0.06	-0.02	-0.02	0.06	-6.51e-03	326.41	-167.93	-147.96	306.44	97.33
36	2	313	1.70	85.51	-13.19	-8.37	80.69	-21.27	543.29	-119.93	170.99	252.37	329.10
		119	1.37	10.22	-37.86	-25.03	-2.61	-21.27	247.41	-394.47	75.92	-222.98	284.02
		56	1.03	5.19	-48.61	-38.18	-5.24	-21.27	-0.78	-281.53	-36.79	-245.52	93.88
		314	1.62	82.41	-25.87	-21.52	78.06	-21.27	307.36	-19.25	58.28	229.83	138.96
36	6	313	1.70	85.51	-13.19	-8.37	80.69	-21.27	543.29	-119.93	170.99	252.37	329.10
		119	1.37	10.22	-37.86	-25.03	-2.61	-21.27	247.41	-394.47	75.92	-222.98	284.02
		56	1.03	5.19	-48.61	-38.18	-5.24	-21.27	-0.78	-281.53	-36.79	-245.52	93.88
		314	1.62	82.41	-25.87	-21.52	78.06	-21.27	307.36	-19.25	58.28	229.83	138.96
37	2	318	2.16	84.80	-8.84	-4.87	80.82	-18.88	182.86	-626.15	-557.55	114.26	-225.37
		120	1.44	4.82	-35.63	-22.66	-8.15	-18.88	210.30	-588.69	-546.73	168.35	-178.21
		6	1.43	-0.34	-45.31	-35.03	-10.62	-18.88	229.18	-466.10	-428.84	191.92	-156.58
		319	2.15	81.94	-20.83	-17.23	78.35	-18.88	202.48	-504.30	-439.66	137.84	-203.73
37	6	318	2.16	84.80	-8.84	-4.87	80.82	-18.88	182.86	-626.15	-557.55	114.26	-225.37
		120	1.44	4.82	-35.63	-22.66	-8.15	-18.88	210.30	-588.69	-546.73	168.35	-178.21
		6	1.43	-0.34	-45.31	-35.03	-10.62	-18.88	229.18	-466.10	-428.84	191.92	-156.58
		319	2.15	81.94	-20.83	-17.23	78.35	-18.88	202.48	-504.30	-439.66	137.84	-203.73
38	1	368	2.49	0.05	-0.02	-0.02	0.05	-2.62e-03	603.37	-108.74	112.95	381.68	329.73
		367	1.48	0.08	-0.02	-0.02	0.08	-2.62e-03	227.56	-228.05	30.43	-30.92	225.73
		9	0.85	0.08	-3.50e-03	-3.42e-03	0.08	-2.62e-03	-61.06	-251.43	-229.57	-82.92	60.69
		322	1.91	0.05	-9.00e-03	-8.89e-03	0.05	-2.62e-03	381.04	-198.41	-147.05	329.68	164.69
38	4	368	1.79	0.04	-0.02	-0.02	0.04	-1.93e-03	437.12	-71.61	80.86	284.65	233.06
		367	1.04	0.06	-0.01	-0.01	0.06	-1.93e-03	165.51	-153.37	21.96	-9.82	158.65
		9	0.61	0.06	-2.69e-03	-2.63e-03	0.06	-1.93e-03	-34.17	-176.92	-164.07	-47.02	40.86
		322	1.39	0.04	-6.83e-03	-6.75e-03	0.04	-1.93e-03	281.79	-139.52	-105.18	247.45	115.27
39	2	323	1.62	94.52	6.36	15.68	85.21	-27.10	490.22	-91.18	133.13	265.92	283.02
		102	1.21	20.70	-33.90	-3.34	-9.86	-27.10	197.94	-277.18	53.41	-132.66	218.59
		58	1.11	-7.69	-74.89	-61.16	-21.43	-27.10	-70.56	-201.98	-107.66	-164.87	59.16
		324	1.88	79.67	-48.17	-42.14	73.65	-27.10	282.84	-77.09	-27.95	233.70	123.59
39	5	323	1.56	94.52	6.37	15.68	85.21	-27.09	421.46	-121.95	54.11	245.40	254.32
		102	1.18	20.68	-33.90	-3.34	-9.88	-27.09	145.03	-281.06	-18.48	-117.54	207.21
		58	1.10	-7.71	-74.89	-61.16	-21.44	-27.09	-76.59	-200.75	-136.25	-141.10	62.03
		324	1.91	79.67	-48.17	-42.14	73.64	-27.09	258.79	-100.60	-63.66	221.85	109.14
40	2	367	0.88	25.99	-0.69	-0.25	25.55	3.42	2.10	-68.95	-2.00	-64.86	16.56
		369	1.38	27.21	-0.43	7.80e-04	26.78	3.42	-28.96	-200.00	-29.01	-199.95	-2.93
		85	1.42	27.27	-0.20	0.24	26.83	3.42	-55.48	-225.96	-72.75	-208.70	-51.44
		9	0.92	26.05	-0.46	-9.13e-03	25.60	3.42	-24.81	-94.52	-45.73	-73.61	-31.95
40	6	367	0.88	25.99	-0.69	-0.25	25.55	3.42	2.10	-68.95	-2.00	-64.86	16.56
		369	1.38	27.21	-0.43	7.80e-04	26.78	3.42	-28.96	-200.00	-29.01	-199.95	-2.93
		85	1.42	27.27	-0.20	0.24	26.83	3.42	-55.48	-225.96	-72.75	-208.70	-51.44
		9	0.92	26.05	-0.46	-9.13e-03	25.60	3.42	-24.81	-94.52	-45.73	-73.61	-31.95
41	2	175	3.96	30.24	3.38	4.85	28.77	-6.11	904.67	84.51	126.95	862.23	-181.68
		174	5.96	15.76	-0.94	1.72	13.10	-6.11	1619.07	274.98	277.76	1616.28	-61.11
		5	6.03	14.18	-5.59	-3.47	12.07	-6.11	1753.06	549.24	617.98	1684.33	279.32
		86	3.72	29.00	-1.61	-0.34	27.73	-6.11	979.47	417.98	467.17	930.27	158.75
41	6	175	3.96	30.24	3.38	4.85	28.77	-6.11	904.67	84.51	126.95	862.23	-181.68
		174	5.96	15.76	-0.94	1.72	13.10	-6.11	1619.07	274.98	277.76	1616.28	-61.11
		5	6.03	14.18	-5.59	-3.47	12.07	-6.11	1753.06	549.24	617.98	1684.33	279.32
		86	3.72	29.00	-1.61	-0.34	27.73	-6.11	979.47	417.98	467.17	930.27	158.75
42	1	176	3.86	0.08	0.01	0.01	0.07	-0.01	1104.25	170.81	434.31	840.75	420.15
		158	2.08	0.14	0.03	0.03	0.14	-0.01	598.87	100.28	338.33	360.82	249.04
		59	1.29	0.15	0.05	0.05	0.15	-0.01	283.98	-98.17	-89.45	275.26	57.07
		135	3.19	0.08	0.04	0.04	0.08	-0.01	819.26	-57.53	6.54	755.19	228.18
42	4	176	2.77	0.06	8.25e-03	9.61e-03	0.05	-7.93e-03	794.92	130.12	310.64	614.39	295.67
		158	1.49	0.10	0.02	0.02	0.10	-7.93e-03	431.82	81.82	242.08	271.56	174.38
		59	0.96	0.11	0.04	0.04	0.11	-7.93e-03	215.92	-66.17	-61.16	210.92	37.24
		135	2.31	0.06	0.03	0.03	0.06	-7.93e-03	596.42	-35.27	7.41	553.75	158.54
43	2	139	4.94	29.74	-3.94	0.41	25.38	11.30	1259.01	279.58	279.62	1258.97	6.70
		138	3.23	69.64	6.74	8.85	67.54	11.30	455.42	67.55	110.35	412.61	121.54
		87	3.05	69.51	6.21	8.29	67.43	11.30	604.70	227.53	368.07	464.15	-182.36
		24	5.07	29.57	-4.44	-0.14	25.27	11.30	1411.55	436.30	537.34	1310.51	-297.20
43	6	139	4.94	29.74	-3.94	0.41	25.38	11.30	1259.01	279.58	279.62	1258.97	6.70
		138	3.23	69.64	6.74	8.85	67.54	11.30	455.42	67.55	110.35	412.61	121.54
		87	3.05	69.51	6.21	8.29	67.43	11.30	604.70	227.53	368.07	464.15	-182.36
		24	5.07	29.57	-4.44	-0.14	25.27	11.30	1411.55	436.30	537.34	1310.51	-297.20
44	2	140	2.62	73.34	2.41	3.71	72.05	-9.49	214.12	-77.42	-10.41	147.11	-122.66
		133	2.47	50.21	-2.77	-1.01	48.45	-9.49	304.28	-38.60	11.08	254.60	-120.69

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		88	2.31	50.69	-0.71	1.11	48.88	-9.49	275.81	-3.45	16.64	255.71	-72.16
		89	2.47	73.79	4.50	5.82	72.47	-9.49	178.24	-34.87	-4.86	148.22	-74.13
44	5	140	2.58	73.32	2.41	3.71	72.03	-9.49	196.08	-112.50	-26.71	110.29	-138.25
		133	2.60	50.18	-2.77	-1.01	48.42	-9.49	333.85	-49.78	6.71	277.36	-135.94
		88	2.37	50.66	-0.71	1.10	48.85	-9.49	291.81	0.08	13.23	278.67	-60.51
		89	2.34	73.78	4.50	5.83	72.45	-9.49	136.75	-45.34	-20.19	111.60	-62.82
45	2	5	3.55	51.21	5.78	7.07	49.92	-7.56	699.29	-104.99	318.14	276.16	-401.59
		135	4.56	26.93	-0.27	2.02	24.64	-7.56	1098.81	86.77	416.68	768.90	-474.38
		134	3.69	26.34	-2.38	-0.23	24.19	-7.56	856.21	110.99	234.71	732.50	-277.29
		133	2.52	50.71	3.58	4.82	49.47	-7.56	398.92	-22.99	136.16	239.77	-204.50
45	6	5	3.55	51.21	5.78	7.07	49.92	-7.56	699.29	-104.99	318.14	276.16	-401.59
		135	4.56	26.93	-0.27	2.02	24.64	-7.56	1098.81	86.77	416.68	768.90	-474.38
		134	3.69	26.34	-2.38	-0.23	24.19	-7.56	856.21	110.99	234.71	732.50	-277.29
		133	2.52	50.71	3.58	4.82	49.47	-7.56	398.92	-22.99	136.16	239.77	-204.50
46	2	165	2.05	27.41	-1.40	-1.04	27.05	-3.20	401.24	56.62	69.10	388.76	64.37
		141	1.97	28.41	-1.19	-0.84	28.06	-3.20	361.20	62.74	63.45	360.49	-14.51
		90	2.30	27.27	-6.61	-6.30	26.97	-3.20	322.51	-135.22	-133.76	321.05	-25.82
		166	2.36	26.27	-6.82	-6.51	25.95	-3.20	355.15	-133.93	-128.11	349.32	53.06
46	5	165	2.06	27.39	-1.42	-1.06	27.03	-3.21	381.07	32.55	32.82	380.79	9.72
		141	2.32	28.40	-1.21	-0.85	28.04	-3.21	445.09	40.82	44.87	441.04	-40.26
		90	2.51	27.26	-6.63	-6.32	26.95	-3.21	416.58	-80.58	-80.06	416.06	-16.16
		166	2.28	26.25	-6.84	-6.52	25.94	-3.21	358.35	-94.64	-92.11	355.81	33.82
47	2	329	2.57	29.65	0.61	1.23	29.04	-4.18	518.77	-20.54	145.41	352.83	-248.91
		142	4.88	15.68	-2.66	-1.65	14.67	-4.18	1317.93	304.99	332.85	1290.07	-165.66
		14	4.84	13.63	-11.20	-10.48	12.90	-4.18	1383.65	489.02	540.98	1331.70	209.24
		330	1.98	27.77	-8.09	-7.60	27.27	-4.18	501.63	246.35	353.53	394.45	125.99
47	6	329	2.57	29.65	0.61	1.23	29.04	-4.18	518.77	-20.54	145.41	352.83	-248.91
		142	4.88	15.68	-2.66	-1.65	14.67	-4.18	1317.93	304.99	332.85	1290.07	-165.66
		14	4.84	13.63	-11.20	-10.48	12.90	-4.18	1383.65	489.02	540.98	1331.70	209.24
		330	1.98	27.77	-8.09	-7.60	27.27	-4.18	501.63	246.35	353.53	394.45	125.99
48	2	333	1.97	28.67	-4.09	-4.09	28.67	-0.34	326.05	-20.20	6.73	299.12	92.74
		143	1.88	28.95	-4.04	-4.03	28.95	-0.34	299.05	3.79	6.23	296.61	26.74
		91	2.22	27.96	-8.99	-8.99	27.96	-0.34	265.18	-160.33	-158.76	263.61	25.74
		334	2.29	27.68	-9.05	-9.05	27.68	-0.34	285.10	-177.25	-158.26	266.12	91.74
48	5	333	2.03	28.66	-4.11	-4.11	28.66	-0.34	331.48	-15.54	-10.61	326.54	41.09
		143	2.27	28.94	-4.06	-4.05	28.94	-0.34	400.86	4.24	4.26	400.85	-2.21
		91	2.49	27.95	-9.02	-9.02	27.95	-0.34	380.76	-105.55	-103.99	379.20	27.51
		334	2.29	27.67	-9.08	-9.07	27.67	-0.34	316.41	-130.37	-118.85	304.89	70.81
49	2	255	2.13	29.86	0.65	0.68	29.83	-0.88	499.07	120.09	289.51	329.65	-188.43
		144	4.54	15.17	-2.31	-2.26	15.13	-0.88	1268.64	459.48	474.34	1253.79	-108.63
		18	4.80	13.57	-10.25	-10.22	13.54	-0.88	1388.96	578.56	673.83	1293.68	261.03
		256	2.22	28.26	-7.30	-7.28	28.24	-0.88	620.09	238.46	489.01	369.54	181.23
49	6	255	2.13	29.86	0.65	0.68	29.83	-0.88	499.07	120.09	289.51	329.65	-188.43
		144	4.54	15.17	-2.31	-2.26	15.13	-0.88	1268.64	459.48	474.34	1253.79	-108.63
		18	4.80	13.57	-10.25	-10.22	13.54	-0.88	1388.96	578.56	673.83	1293.68	261.03
		256	2.22	28.26	-7.30	-7.28	28.24	-0.88	620.09	238.46	489.01	369.54	181.23
50	1	260	2.82	0.04	0.01	0.01	0.04	-1.15e-03	858.07	322.14	749.70	430.51	215.25
		145	2.43	0.02	5.75e-03	5.86e-03	0.02	-1.15e-03	700.77	125.93	690.78	135.91	75.09
		92	1.21	0.03	0.02	0.03	0.02	-1.15e-03	346.88	59.32	340.37	65.83	-42.75
		261	1.56	0.05	0.04	0.04	0.05	-1.15e-03	479.19	280.53	399.29	360.43	97.41
50	5	260	1.83	29.22	-3.69	-3.38	28.92	3.15	372.29	213.72	241.91	344.11	60.62
		145	1.96	29.25	-3.68	-3.38	28.95	3.15	405.58	254.13	254.19	405.52	-3.05
		92	2.04	28.53	-7.14	-6.86	28.25	3.15	375.33	93.35	95.00	373.68	21.51
		261	1.94	28.50	-7.14	-6.86	28.22	3.15	340.43	54.55	82.72	312.27	85.19
51	2	265	4.48	29.98	1.55	1.79	29.74	2.63	1225.59	127.18	883.91	468.86	-508.49
		146	6.21	15.43	-1.57	-1.15	15.02	2.63	1850.08	835.16	1105.98	1579.25	-448.91
		22	5.69	14.35	-6.52	-6.19	14.01	2.63	1609.11	1254.88	1254.94	1609.04	-4.75
		266	3.56	28.95	-3.46	-3.24	28.73	2.63	1040.50	491.02	1032.86	498.65	-64.33
51	6	265	4.48	29.98	1.55	1.79	29.74	2.63	1225.59	127.18	883.91	468.86	-508.49
		146	6.21	15.43	-1.57	-1.15	15.02	2.63	1850.08	835.16	1105.98	1579.25	-448.91
		22	5.69	14.35	-6.52	-6.19	14.01	2.63	1609.11	1254.88	1254.94	1609.04	-4.75
		266	3.56	28.95	-3.46	-3.24	28.73	2.63	1040.50	491.02	1032.86	498.65	-64.33
52	1	270	2.84	0.07	-0.28	-0.28	0.07	0.04	324.01	-538.77	-516.08	301.32	-138.06
		147	2.85	0.04	-0.29	-0.28	0.03	0.04	188.37	-646.07	-556.57	98.87	-258.21
		93	3.96	0.03	-0.30	-0.30	0.03	0.04	152.74	-970.89	-856.94	38.80	-339.19
		271	3.88	0.07	-0.30	-0.29	0.07	0.04	284.82	-860.02	-816.45	241.25	-219.04
52	6	270	2.78	28.62	-1.31	-0.19	27.50	5.68	313.28	-373.14	-359.43	299.57	-96.05
		147	2.66	26.97	-1.71	-0.53	25.79	5.68	262.86	-434.85	-378.12	206.13	-190.69
		93	3.39	26.66	-2.98	-1.85	25.53	5.68	221.04	-676.96	-614.72	158.81	-228.07
		271	3.45	28.32	-2.59	-1.51	27.24	5.68	272.74	-616.52	-596.03	252.25	-133.43
53	1	275	6.47	0.01	-0.28	-0.28	0.01	2.25e-03	-173.46	-1802.59	-1792.10	-183.95	-130.29
		148	6.42	6.85e-03	-0.28	-0.28	6.83e-03	2.25e-03	-177.68	-1792.28	-1791.08	-178.87	-43.88
		26	5.68	0.02	-0.23	-0.23	0.02	2.25e-03	-134.45	-1576.28	-1575.06	-135.67	-41.85
		276	5.73	0.02	-0.23	-0.23	0.02	2.25e-03	-129.38	-1587.45	-1576.08	-140.75	-128.26

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
53	6	275	5.08	27.40	0.70	0.78	27.31	1.53	-54.66	-1293.75	-1286.99	-61.41	-91.23
		148	5.04	26.60	0.53	0.62	26.51	1.53	-62.80	-1288.18	-1287.42	-63.55	-30.39
		26	4.56	26.39	-0.51	-0.42	26.30	1.53	-32.25	-1136.22	-1135.33	-33.13	-31.25
		276	4.60	27.19	-0.34	-0.26	27.10	1.53	-23.37	-1142.53	-1134.91	-31.00	-92.08
54	1	280	5.30	0.01	-0.29	-0.29	0.01	-0.01	-83.17	-1451.36	-1424.20	-110.32	190.82
		149	5.48	0.03	-0.28	-0.28	0.03	-0.01	-20.14	-1469.70	-1416.76	-73.08	271.93
		94	4.87	0.04	-0.24	-0.24	0.04	-0.01	33.42	-1279.94	-1213.99	-32.53	286.82
		281	4.66	0.02	-0.25	-0.25	0.02	-0.01	-34.13	-1257.08	-1221.44	-69.77	205.72
54	6	280	4.30	27.66	0.27	0.67	27.26	-3.27	1.97	-1058.56	-1043.64	-12.96	124.91
		149	4.51	26.36	-7.33e-03	0.41	25.95	-3.27	107.55	-1057.91	-1025.93	75.57	190.39
		94	4.10	26.12	-1.11	-0.71	25.72	-3.27	158.28	-912.19	-862.23	108.31	225.80
		281	3.85	27.43	-0.83	-0.44	27.04	-3.27	47.50	-907.65	-879.93	19.78	160.32
55	2	285	2.33	30.40	-0.55	1.97	27.87	-8.47	528.87	475.73	527.93	476.68	-7.03
		150	5.20	18.90	-4.25	-0.56	15.21	-8.47	1508.70	716.04	731.28	1493.46	108.85
		12	6.16	17.78	-7.38	-4.11	14.50	-8.47	1865.96	706.41	1020.98	1551.40	515.56
		286	4.01	29.47	-3.88	-1.57	27.16	-8.47	1100.11	252.12	817.62	534.61	399.68
55	6	285	2.33	30.40	-0.55	1.97	27.87	-8.47	528.87	475.73	527.93	476.68	-7.03
		150	5.20	18.90	-4.25	-0.56	15.21	-8.47	1508.70	716.04	731.28	1493.46	108.85
		12	6.16	17.78	-7.38	-4.11	14.50	-8.47	1865.96	706.41	1020.98	1551.40	515.56
		286	4.01	29.47	-3.88	-1.57	27.16	-8.47	1100.11	252.12	817.62	534.61	399.68
56	1	290	4.57	5.40e-03	-0.05	-0.02	-0.03	-0.03	1325.28	252.62	1013.15	564.76	487.23
		151	3.58	0.04	-0.02	-5.60e-03	0.02	-0.03	1007.48	115.13	937.26	185.34	240.27
		95	1.24	0.08	0.02	0.06	0.03	-0.03	347.30	34.42	319.86	61.86	88.50
		291	2.69	0.06	-0.03	0.05	-0.02	-0.03	754.74	82.28	395.75	441.28	335.46
56	4	290	3.29	3.40e-03	-0.04	-0.01	-0.02	-0.02	961.71	202.07	731.81	431.96	348.98
		151	2.55	0.03	-0.02	-3.38e-03	0.01	-0.02	727.81	106.36	676.88	157.29	170.46
		95	0.86	0.05	0.01	0.04	0.02	-0.02	250.69	47.93	230.59	68.03	60.59
		291	1.96	0.04	-0.02	0.03	-0.01	-0.02	554.93	73.31	285.53	342.71	239.11
57	2	295	2.52	30.76	0.47	1.47	29.76	-5.42	615.63	134.49	433.37	316.75	-233.39
		152	4.63	17.15	-2.95	-1.37	15.56	-5.42	1301.79	582.36	622.37	1261.78	-164.88
		28	4.66	15.51	-9.17	-7.92	14.25	-5.42	1374.27	715.42	793.65	1296.03	213.13
		296	2.46	29.30	-5.94	-5.08	28.45	-5.42	670.17	285.47	604.64	351.00	144.62
57	6	295	2.52	30.76	0.47	1.47	29.76	-5.42	615.63	134.49	433.37	316.75	-233.39
		152	4.63	17.15	-2.95	-1.37	15.56	-5.42	1301.79	582.36	622.37	1261.78	-164.88
		28	4.66	15.51	-9.17	-7.92	14.25	-5.42	1374.27	715.42	793.65	1296.03	213.13
		296	2.46	29.30	-5.94	-5.08	28.45	-5.42	670.17	285.47	604.64	351.00	144.62
58	2	300	1.77	29.01	-3.55	-3.44	28.90	-1.91	310.17	31.21	61.06	280.33	86.22
		153	1.75	29.15	-3.53	-3.41	29.04	-1.91	293.26	61.92	63.35	291.82	18.17
		96	2.03	28.38	-7.32	-7.22	28.28	-1.91	259.21	-108.18	-106.76	257.80	22.77
		301	2.05	28.24	-7.35	-7.25	28.14	-1.91	268.17	-130.93	-109.06	246.31	90.82
58	5	300	1.92	29.00	-3.56	-3.45	28.89	-1.90	319.87	14.21	18.74	315.34	36.94
		153	2.18	29.14	-3.53	-3.42	29.03	-1.90	391.97	33.83	34.02	391.78	-8.30
		96	2.37	28.36	-7.34	-7.24	28.26	-1.90	370.27	-80.17	-79.07	369.16	22.27
		301	2.15	28.23	-7.37	-7.26	28.13	-1.90	304.16	-105.79	-94.35	292.73	67.51
59	2	305	2.28	30.10	0.56	0.84	29.81	-2.87	447.05	-13.40	121.87	311.77	-209.73
		154	4.69	16.02	-2.46	-2.01	15.57	-2.87	1256.98	289.48	307.34	1239.12	-130.26
		20	4.77	14.43	-9.75	-9.40	14.09	-2.87	1347.68	437.20	506.03	1278.85	240.68
		306	1.98	28.57	-6.79	-6.55	28.33	-2.87	497.98	174.09	320.56	351.51	161.20
59	6	305	2.28	30.10	0.56	0.84	29.81	-2.87	447.05	-13.40	121.87	311.77	-209.73
		154	4.69	16.02	-2.46	-2.01	15.57	-2.87	1256.98	289.48	307.34	1239.12	-130.26
		20	4.77	14.43	-9.75	-9.40	14.09	-2.87	1347.68	437.20	506.03	1278.85	240.68
		306	1.98	28.57	-6.79	-6.55	28.33	-2.87	497.98	174.09	320.56	351.51	161.20
60	2	310	2.08	28.82	-3.33	-3.33	28.82	0.38	327.32	-76.39	-35.42	286.36	121.90
		155	1.89	28.67	-3.36	-3.36	28.66	0.38	281.03	-42.93	-37.56	275.66	41.36
		97	2.33	27.84	-7.49	-7.49	27.84	0.38	238.27	-241.80	-238.91	235.39	37.08
		311	2.48	28.00	-7.46	-7.46	27.99	0.38	273.21	-263.90	-236.78	246.09	117.62
60	5	310	2.05	28.81	-3.33	-3.32	28.81	0.38	321.22	-47.68	-38.24	311.78	58.25
		155	2.22	28.65	-3.36	-3.35	28.65	0.38	377.00	-25.28	-25.21	376.93	5.30
		97	2.50	27.83	-7.50	-7.49	27.82	0.38	352.38	-159.53	-157.61	350.45	31.36
		311	2.37	27.98	-7.46	-7.46	27.98	0.38	300.39	-185.73	-170.64	285.30	84.32
61	2	315	2.32	29.38	2.21	2.26	29.33	-1.13	462.54	-37.14	104.43	320.97	-225.16
		156	4.72	14.65	-0.78	-0.70	14.57	-1.13	1272.13	268.03	290.23	1249.93	-147.64
		16	4.78	13.11	-8.34	-8.28	13.05	-1.13	1346.82	425.89	484.02	1288.69	223.94
		316	1.99	27.86	-5.36	-5.33	27.82	-1.13	478.60	179.36	298.22	359.73	146.43
61	6	315	2.32	29.38	2.21	2.26	29.33	-1.13	462.54	-37.14	104.43	320.97	-225.16
		156	4.72	14.65	-0.78	-0.70	14.57	-1.13	1272.13	268.03	290.23	1249.93	-147.64
		16	4.78	13.11	-8.34	-8.28	13.05	-1.13	1346.82	425.89	484.02	1288.69	223.94
		316	1.99	27.86	-5.36	-5.33	27.82	-1.13	478.60	179.36	298.22	359.73	146.43
62	2	320	1.97	27.84	0.81	0.92	27.73	1.66	315.04	-68.92	-40.34	286.46	100.78
		157	1.76	26.97	0.64	0.74	26.87	1.66	266.59	-44.99	-44.42	266.03	13.26
		98	2.23	26.06	-3.87	-3.78	25.96	1.66	222.33	-263.26	-263.20	222.27	5.09
		321	2.40	26.92	-3.69	-3.60	26.83	1.66	259.25	-275.66	-259.12	242.70	92.60
62	5	320	1.97	27.82	0.82	0.92	27.72	1.65	314.08	-55.40	-51.36	310.04	38.41
		157	2.14	26.96	0.64	0.75	26.86	1.65	376.18	-39.26	-38.32	375.24	-19.69

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		98	2.44	26.04	-3.87	-3.78	25.95	1.65	346.27	-183.64	-183.56	346.20	6.39
		321	2.31	26.91	-3.69	-3.60	26.82	1.65	289.55	-205.15	-196.60	281.00	64.49
63	2	325	2.27	29.87	4.99	6.50	28.36	5.95	502.36	-88.74	102.27	311.34	-276.45
		139	5.03	28.13	4.53	6.13	26.52	5.95	1309.61	244.20	292.30	1261.50	-221.21
		24	5.03	28.33	5.26	6.91	26.68	5.95	1317.56	401.94	430.39	1289.12	158.85
		326	1.96	30.07	5.72	7.28	28.51	5.95	404.41	174.91	240.35	338.96	103.62
63	5	325	2.13	29.86	4.97	6.49	28.35	5.96	468.52	-25.30	93.84	349.37	-211.28
		139	4.94	28.16	4.52	6.14	26.55	5.96	1279.26	244.59	273.95	1249.91	-171.80
		24	5.06	28.36	5.26	6.92	26.71	5.96	1307.62	334.69	372.66	1269.65	188.42
		326	2.20	30.06	5.72	7.27	28.50	5.96	453.96	107.70	192.55	369.12	148.93
64	2	24	3.27	50.51	-4.09	3.41	43.01	18.80	380.31	-261.12	249.23	-130.04	-258.64
		87	5.99	95.75	8.83	13.10	91.47	18.80	1335.68	229.91	490.30	1075.29	-469.18
		101	5.65	97.62	16.23	20.83	93.02	18.80	1103.29	178.82	254.06	1028.05	-252.78
		102	2.00	52.99	2.70	11.14	44.55	18.80	21.95	-186.24	12.99	-177.29	-42.24
64	6	24	3.27	50.51	-4.09	3.41	43.01	18.80	380.31	-261.12	249.23	-130.04	-258.64
		87	5.99	95.75	8.83	13.10	91.47	18.80	1335.68	229.91	490.30	1075.29	-469.18
		101	5.65	97.62	16.23	20.83	93.02	18.80	1103.29	178.82	254.06	1028.05	-252.78
		102	2.00	52.99	2.70	11.14	44.55	18.80	21.95	-186.24	12.99	-177.29	-42.24
65	2	89	2.98	111.96	10.10	13.12	108.94	-17.28	78.24	-93.80	-31.35	15.78	-82.73
		88	1.87	48.61	-6.29	-0.17	42.48	-17.28	132.85	-34.12	-12.30	111.03	-56.28
		103	1.71	52.63	5.40	12.92	45.10	-17.28	130.02	13.50	25.02	118.50	-34.78
		104	2.85	114.93	22.85	26.22	111.56	-17.28	76.44	-47.22	5.97	23.24	-61.23
65	5	89	3.17	111.95	10.10	13.12	108.93	-17.28	119.06	-56.94	-25.07	87.19	-67.77
		88	1.91	48.59	-6.30	-0.17	42.47	-17.28	154.65	-21.50	-13.23	146.38	-37.26
		103	1.78	52.61	5.40	12.92	45.08	-17.28	159.40	25.41	29.82	154.99	-23.90
		104	3.06	114.91	22.85	26.21	111.55	-17.28	123.78	-10.00	17.98	95.80	-54.41
66	1	136	1.90	0.13	-0.08	-0.04	0.09	0.08	545.79	452.90	531.37	467.32	33.64
		10	2.95	-0.04	-0.22	-0.09	-0.17	0.08	899.14	544.60	605.54	838.20	-133.77
		105	2.62	0.02	-0.19	-0.02	-0.15	0.08	805.03	387.59	396.28	796.35	-59.59
		167	1.61	0.16	-0.02	0.03	0.10	0.08	493.35	254.22	322.11	425.47	107.82
66	5	136	3.18	28.50	1.24	2.82	26.92	-6.36	881.52	244.07	498.52	627.07	312.18
		10	2.95	43.59	4.86	5.94	42.51	-6.36	358.83	-282.72	323.61	-247.50	146.13
		105	2.38	41.96	-2.43	-1.50	41.03	-6.36	118.08	-291.05	116.04	-289.01	-28.79
		167	2.57	26.73	-5.91	-4.62	25.44	-6.36	639.60	236.91	290.96	585.55	137.27
67	2	166	3.60	28.02	-6.18	-6.11	27.94	-1.61	682.01	-152.63	-76.74	606.13	-239.96
		90	2.27	29.61	-5.86	-5.79	29.54	-1.61	292.98	-147.97	-140.81	285.82	-55.73
		99	2.10	28.83	-9.71	-9.64	28.77	-1.61	381.09	40.26	89.47	331.87	-119.80
		163	3.61	27.24	-10.03	-9.96	27.17	-1.61	796.04	9.68	153.53	652.18	-304.02
67	6	166	3.60	28.02	-6.18	-6.11	27.94	-1.61	682.01	-152.63	-76.74	606.13	-239.96
		90	2.27	29.61	-5.86	-5.79	29.54	-1.61	292.98	-147.97	-140.81	285.82	-55.73
		99	2.10	28.83	-9.71	-9.64	28.77	-1.61	381.09	40.26	89.47	331.87	-119.80
		163	3.61	27.24	-10.03	-9.96	27.17	-1.61	796.04	9.68	153.53	652.18	-304.02
68	2	330	3.40	30.05	-7.96	-7.20	29.28	-5.34	892.38	179.10	407.44	664.03	332.77
		14	3.00	43.86	-4.99	-4.40	43.27	-5.34	289.20	-313.88	224.75	-249.44	186.32
		106	2.36	42.95	-9.33	-8.78	42.40	-5.34	41.73	-286.09	41.69	-286.05	3.62
		327	2.92	29.11	-12.27	-11.57	28.41	-5.34	677.16	174.64	224.38	627.42	150.07
68	5	330	3.41	30.05	-7.98	-7.22	29.28	-5.34	878.74	156.88	368.13	667.49	328.43
		14	3.09	43.82	-5.02	-4.43	43.23	-5.34	249.76	-376.62	174.39	-301.24	203.80
		106	2.48	42.91	-9.35	-8.80	42.35	-5.34	18.88	-332.69	18.60	-332.40	10.05
		327	2.95	29.11	-12.29	-11.59	28.40	-5.34	675.49	173.18	212.34	636.33	134.68
69	2	334	3.27	29.44	-8.70	-8.70	29.44	-0.19	578.22	-133.10	-102.05	547.17	-145.34
		91	2.19	30.07	-8.57	-8.57	30.07	-0.19	240.10	-165.12	-163.74	238.72	23.62
		100	1.86	29.50	-11.41	-11.41	29.50	-0.19	287.01	41.41	47.46	280.96	-38.07
		331	3.18	28.87	-11.54	-11.54	28.87	-0.19	666.34	32.22	109.15	589.41	-207.03
69	6	334	3.27	29.44	-8.70	-8.70	29.44	-0.19	578.22	-133.10	-102.05	547.17	-145.34
		91	2.19	30.07	-8.57	-8.57	30.07	-0.19	240.10	-165.12	-163.74	238.72	23.62
		100	1.86	29.50	-11.41	-11.41	29.50	-0.19	287.01	41.41	47.46	280.96	-38.07
		331	3.18	28.87	-11.54	-11.54	28.87	-0.19	666.34	32.22	109.15	589.41	-207.03
70	2	256	3.73	30.13	-7.17	-6.95	29.90	-2.87	1003.12	176.44	542.51	637.05	410.63
		18	3.67	43.46	-4.44	-4.27	43.29	-2.87	449.03	-391.70	355.47	-298.14	264.40
		107	2.91	42.66	-8.39	-8.23	42.50	-2.87	184.22	-346.23	172.68	-334.69	77.36
		253	2.93	29.32	-11.11	-10.91	29.11	-2.87	734.05	226.17	359.72	600.49	223.59
70	6	256	3.73	30.13	-7.17	-6.95	29.90	-2.87	1003.12	176.44	542.51	637.05	410.63
		18	3.67	43.46	-4.44	-4.27	43.29	-2.87	449.03	-391.70	355.47	-298.14	264.40
		107	2.91	42.66	-8.39	-8.23	42.50	-2.87	184.22	-346.23	172.68	-334.69	77.36
		253	2.93	29.32	-11.11	-10.91	29.11	-2.87	734.05	226.17	359.72	600.49	223.59
71	2	261	2.43	29.93	-6.73	-6.54	29.74	2.65	554.47	194.84	251.65	497.65	-131.16
		92	1.38	30.23	-6.67	-6.48	30.04	2.65	233.67	181.23	195.91	218.98	-23.54
		108	1.51	29.82	-8.71	-8.53	29.63	2.65	378.01	198.32	330.44	245.89	-79.28
		258	2.59	29.52	-8.77	-8.59	29.33	2.65	654.66	256.07	386.17	524.56	-186.90
71	5	261	2.69	29.93	-6.75	-6.56	29.74	2.65	564.46	110.90	129.44	545.91	-89.82
		92	1.79	30.23	-6.69	-6.50	30.04	2.65	290.51	76.37	78.03	288.84	18.78
		108	1.71	29.81	-8.73	-8.55	29.63	2.65	325.53	204.26	213.79	316.00	-32.63
		258	2.70	29.51	-8.79	-8.61	29.33	2.65	628.04	210.23	265.20	573.06	-141.24

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
72	1	266	4.29	0.47	-0.05	0.41	0.02	-0.17	1316.90	627.49	1316.55	627.84	-15.54
		22	5.82	0.49	0.02	0.42	0.09	-0.17	1789.96	930.93	1445.97	1274.92	-420.91
		109	4.46	0.16	-0.18	-0.02	-3.51e-04	-0.17	1370.58	742.26	939.25	1173.58	-291.50
		263	2.77	0.12	-0.22	-0.03	-0.07	-0.17	849.93	486.41	809.84	526.50	113.88
72	4	266	3.13	0.34	-0.03	0.29	0.02	-0.12	960.61	475.07	960.60	475.09	-2.80
		22	4.24	0.35	-2.89e-04	0.30	0.05	-0.12	1303.69	698.08	1054.94	946.82	-297.94
		109	3.27	0.10	-0.14	-0.02	-0.02	-0.12	1003.57	555.50	686.02	873.04	-203.59
		263	2.05	0.09	-0.16	-0.02	-0.05	-0.12	628.56	364.42	591.68	401.30	91.55
73	1	271	6.97	0.09	-0.29	-0.29	0.09	-0.01	937.27	-1202.92	-764.86	499.21	-863.50
		93	4.92	0.03	-0.30	-0.30	0.03	-0.01	470.58	-1010.29	-810.53	270.83	-505.88
		110	4.29	0.04	-0.24	-0.24	0.04	-0.01	658.03	-661.30	-363.50	360.24	-551.55
		268	6.62	0.11	-0.23	-0.23	0.10	-0.01	1151.27	-880.49	-317.82	588.61	-909.18
73	6	271	6.02	29.68	-1.80	-1.15	29.03	4.47	936.49	-808.64	-517.43	645.28	-650.69
		93	4.08	29.44	-1.85	-1.20	28.78	4.47	396.90	-732.43	-594.66	259.12	-369.61
		110	3.73	29.33	-2.32	-1.68	28.69	4.47	573.76	-487.68	-243.31	329.39	-446.84
		268	5.90	29.57	-2.27	-1.63	28.93	4.47	1125.73	-576.26	-166.08	715.55	-727.92
74	1	276	6.09	0.02	-0.23	-0.23	0.02	-3.65e-04	116.37	-1562.16	-1530.91	85.12	-226.88
		26	5.93	7.00e-03	-0.23	-0.23	7.00e-03	-3.65e-04	92.55	-1530.71	-1529.63	91.48	-41.79
		111	5.16	0.01	-0.20	-0.20	0.01	-3.65e-04	138.89	-1299.41	-1298.27	137.75	-40.52
		273	5.35	0.02	-0.20	-0.20	0.02	-3.65e-04	166.12	-1334.27	-1299.54	131.39	-225.61
74	6	276	5.04	32.92	0.89	0.90	32.91	0.67	164.80	-1124.99	-1100.62	140.43	-175.59
		26	4.85	29.12	0.13	0.14	29.10	0.67	127.49	-1104.18	-1103.37	126.68	-31.56
		111	4.29	29.13	0.18	0.20	29.11	0.67	163.77	-924.42	-923.34	162.69	-34.31
		273	4.51	32.93	0.95	0.96	32.92	0.67	204.70	-948.85	-920.59	176.44	-178.34
75	1	281	5.13	0.01	-0.25	-0.25	0.01	1.28e-03	222.40	-1242.54	-1176.26	156.12	304.47
		94	5.64	0.04	-0.24	-0.24	0.04	1.28e-03	336.37	-1304.44	-1167.58	199.51	453.68
		112	5.16	0.04	-0.21	-0.21	0.04	1.28e-03	392.45	-1136.72	-981.08	236.81	462.36
		278	4.60	0.02	-0.22	-0.22	0.02	1.28e-03	271.19	-1067.53	-989.76	193.42	313.15
75	6	281	4.38	33.19	0.35	0.71	32.83	-3.42	245.23	-899.87	-845.68	191.04	243.13
		94	4.69	29.33	-0.46	-0.07	28.93	-3.42	324.72	-957.22	-841.99	209.49	366.66
		112	4.31	29.27	-0.71	-0.32	28.88	-3.42	370.05	-817.26	-687.57	240.37	370.35
		278	3.97	33.13	0.10	0.46	32.78	-3.42	284.37	-753.70	-691.26	221.93	246.82
76	1	286	6.73	0.07	-0.68	-0.63	0.02	0.18	1829.97	71.72	1041.23	860.46	874.46
		12	5.29	-0.07	-0.72	-0.66	-0.13	0.18	1622.80	695.65	1110.69	1207.77	461.03
		113	4.98	0.09	-0.31	-0.19	-0.03	0.18	1437.86	260.44	593.89	1104.41	530.49
		283	6.64	0.21	-0.25	-0.16	0.12	0.18	1591.84	-310.30	524.43	757.10	943.93
76	6	286	7.06	31.29	-3.55	-1.21	28.95	-8.71	1826.63	-6.53	895.60	924.51	916.47
		12	5.08	44.77	-0.16	1.60	43.02	-8.71	1079.05	-206.36	737.70	134.99	567.68
		113	3.51	44.43	-1.63	0.08	42.72	-8.71	603.74	-254.24	301.71	47.79	409.77
		283	5.73	30.90	-4.98	-2.73	28.65	-8.71	1430.18	-133.26	459.61	837.31	758.56
77	2	291	2.83	30.07	-4.57	-4.16	29.65	-3.77	641.76	256.29	266.42	631.63	-61.66
		95	1.49	30.69	-4.44	-4.03	30.28	-3.77	317.78	79.24	182.92	214.11	118.25
		114	1.61	30.44	-5.64	-5.25	30.04	-3.77	415.52	251.37	407.80	259.09	34.74
		288	3.04	29.81	-5.78	-5.37	29.41	-3.77	756.16	411.74	491.30	676.60	-145.16
77	5	291	3.00	30.10	-4.59	-4.17	29.69	-3.77	640.57	119.31	137.52	622.35	-95.73
		95	1.76	30.69	-4.46	-4.06	30.28	-3.77	298.57	56.20	70.01	284.76	56.17
		114	1.72	30.43	-5.67	-5.27	30.04	-3.77	324.72	257.90	259.89	322.74	-11.34
		288	3.08	29.85	-5.79	-5.39	29.45	-3.77	727.01	260.71	327.40	660.32	-163.25
78	2	296	3.49	31.16	-5.96	-4.78	29.98	-6.52	983.40	233.40	648.17	568.63	372.89
		28	3.73	44.01	-3.07	-2.15	43.09	-6.52	536.86	-303.18	484.32	-250.64	203.42
		115	2.96	43.33	-6.19	-5.32	42.46	-6.52	275.24	-295.76	272.48	-293.00	39.56
		293	2.58	30.45	-9.05	-7.94	29.34	-6.52	695.12	267.49	436.34	526.27	209.03
78	6	296	3.49	31.16	-5.96	-4.78	29.98	-6.52	983.40	233.40	648.17	568.63	372.89
		28	3.73	44.01	-3.07	-2.15	43.09	-6.52	536.86	-303.18	484.32	-250.64	203.42
		115	2.96	43.33	-6.19	-5.32	42.46	-6.52	275.24	-295.76	272.48	-293.00	39.56
		293	2.58	30.45	-9.05	-7.94	29.34	-6.52	695.12	267.49	436.34	526.27	209.03
79	2	301	3.01	29.86	-6.98	-6.92	29.80	-1.52	535.02	-91.81	-58.07	501.29	-141.46
		96	2.00	30.32	-6.89	-6.83	30.26	-1.52	237.23	-112.13	-111.09	236.19	19.03
		116	1.75	29.88	-9.08	-9.02	29.82	-1.52	282.30	83.53	89.52	276.31	-33.99
		298	2.94	29.42	-9.18	-9.12	29.36	-1.52	620.53	63.42	142.54	541.41	-194.48
79	5	301	3.06	29.86	-6.99	-6.93	29.80	-1.52	559.92	-67.87	-45.41	537.45	-116.61
		96	2.14	30.31	-6.90	-6.84	30.25	-1.52	285.75	-96.78	-95.92	284.89	18.08
		116	1.94	29.87	-9.10	-9.04	29.81	-1.52	322.76	68.24	72.44	318.56	-32.43
		298	3.00	29.42	-9.19	-9.13	29.36	-1.52	626.58	67.50	122.96	571.13	-167.12
80	2	306	3.57	30.63	-6.74	-6.20	30.09	-4.46	907.65	85.26	374.03	618.87	392.55
		20	3.05	43.40	-4.05	-3.62	42.98	-4.46	312.86	-341.09	203.84	-232.07	243.74
		117	2.30	42.64	-7.71	-7.32	42.24	-4.46	35.58	-287.02	17.83	-269.27	73.55
		303	2.99	29.85	-10.39	-9.89	29.35	-4.46	681.80	87.89	188.02	581.67	222.36
80	5	306	3.48	30.63	-6.75	-6.22	30.09	-4.44	871.13	87.29	332.73	625.69	363.52
		20	3.08	43.35	-4.07	-3.65	42.93	-4.44	254.54	-390.90	150.27	-286.63	237.54
		117	2.39	42.59	-7.73	-7.33	42.19	-4.44	2.27	-327.60	-7.20	-318.13	55.08
		303	2.95	29.85	-10.40	-9.90	29.35	-4.44	661.60	107.86	175.26	594.20	181.05
81	2	311	3.24	29.84	-7.09	-7.09	29.83	0.27	521.05	-203.81	-185.45	502.69	-113.89
		97	2.32	30.03	-7.05	-7.05	30.02	0.27	219.59	-245.93	-242.72	216.37	38.57

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		118	1.95	29.56	-9.39	-9.39	29.56	0.27	255.62	-53.28	-52.15	254.49	-18.70
		308	3.08	29.37	-9.43	-9.43	29.37	0.27	590.82	-44.90	5.12	540.81	-171.15
81	6	311	3.24	29.84	-7.09	-7.09	29.83	0.27	521.05	-203.81	-185.45	502.69	-113.89
		97	2.32	30.03	-7.05	-7.05	30.02	0.27	219.59	-245.93	-242.72	216.37	38.57
		118	1.95	29.56	-9.39	-9.39	29.56	0.27	255.62	-53.28	-52.15	254.49	-18.70
		308	3.08	29.37	-9.43	-9.43	29.37	0.27	590.82	-44.90	5.12	540.81	-171.15
82	2	316	3.57	30.18	-5.23	-4.92	29.86	-3.32	892.16	72.97	349.42	615.70	387.35
		16	2.83	42.56	-2.67	-2.43	42.31	-3.32	278.66	-318.87	181.86	-222.08	220.16
		119	2.11	41.76	-6.56	-6.33	41.53	-3.32	-15.97	-275.04	-27.13	-263.88	52.60
		313	3.02	29.37	-9.10	-8.82	29.08	-3.32	665.85	48.48	140.43	573.91	219.79
82	6	316	3.57	30.18	-5.23	-4.92	29.86	-3.32	892.16	72.97	349.42	615.70	387.35
		16	2.83	42.56	-2.67	-2.43	42.31	-3.32	278.66	-318.87	181.86	-222.08	220.16
		119	2.11	41.76	-6.56	-6.33	41.53	-3.32	-15.97	-275.04	-27.13	-263.88	52.60
		313	3.02	29.37	-9.10	-8.82	29.08	-3.32	665.85	48.48	140.43	573.91	219.79
83	2	321	3.29	29.08	-3.15	-3.15	29.08	-5.71e-03	536.45	-240.12	-206.99	503.32	-156.94
		98	2.25	28.40	-3.29	-3.29	28.40	-5.71e-03	214.05	-264.88	-264.85	214.02	-3.48
		120	1.94	27.65	-7.03	-7.03	27.65	-5.71e-03	263.56	-84.21	-73.03	252.39	-61.34
		318	3.18	28.34	-6.89	-6.89	28.34	-5.71e-03	614.91	-88.39	-15.17	541.69	-214.80
83	6	321	3.29	29.08	-3.15	-3.15	29.08	-5.71e-03	536.45	-240.12	-206.99	503.32	-156.94
		98	2.25	28.40	-3.29	-3.29	28.40	-5.71e-03	214.05	-264.88	-264.85	214.02	-3.48
		120	1.94	27.65	-7.03	-7.03	27.65	-5.71e-03	263.56	-84.21	-73.03	252.39	-61.34
		318	3.18	28.34	-6.89	-6.89	28.34	-5.71e-03	614.91	-88.39	-15.17	541.69	-214.80
84	2	326	3.38	27.05	6.97	6.98	27.03	0.48	824.72	94.31	296.97	622.06	327.04
		24	2.22	44.42	10.45	10.46	44.42	0.48	241.47	-250.62	142.28	-151.43	197.41
		102	1.69	43.93	7.96	7.97	43.92	0.48	-9.30	-194.29	-19.76	-183.84	42.71
		323	2.86	26.55	4.48	4.49	26.54	0.48	647.59	77.01	134.94	589.65	172.34
84	5	326	3.40	27.05	6.97	6.98	27.04	0.49	812.42	62.85	244.82	630.45	321.39
		24	2.43	44.38	10.44	10.45	44.37	0.49	191.94	-346.73	73.14	-227.94	223.34
		102	1.91	43.88	7.95	7.96	43.87	0.49	-37.03	-264.84	-49.42	-252.45	51.66
		323	2.87	26.55	4.48	4.49	26.54	0.49	648.53	79.67	122.26	605.94	149.71
85	1	39	1.92	0.09	-0.04	0.09	-0.04	0.03	491.56	-36.16	457.18	-1.78	130.23
		179	1.97	0.11	8.51e-03	0.10	0.02	0.03	584.02	148.42	503.36	229.09	169.20
		178	2.44	0.08	-1.24e-03	0.07	0.01	0.03	700.83	119.30	576.43	243.70	238.47
		173	2.36	0.06	-0.05	0.05	-0.04	0.03	598.24	-55.15	530.26	12.83	199.49
85	4	39	1.36	0.07	-0.03	0.06	-0.03	0.02	347.87	-24.80	323.76	-0.69	91.67
		179	1.40	0.08	6.34e-03	0.07	0.01	0.02	413.29	106.00	356.46	162.82	119.30
		178	1.72	0.06	-6.13e-04	0.05	9.15e-03	0.02	496.06	85.40	408.28	173.18	168.36
		173	1.67	0.04	-0.04	0.04	-0.03	0.02	423.43	-38.19	375.57	9.67	140.72
86	1	41	0.69	0.07	-0.04	0.06	-0.03	0.03	156.47	-44.71	126.97	-15.21	71.16
		186	0.97	0.08	3.40e-03	0.07	0.01	0.03	282.32	56.94	164.89	174.37	112.59
		185	1.38	0.07	-1.04e-03	0.06	9.39e-03	0.03	387.72	44.74	242.56	189.90	169.46
		184	1.13	0.06	-0.04	0.05	-0.03	0.03	266.28	-61.31	204.64	0.33	128.04
86	6	41	1.03	23.96	-0.07	23.90	-7.96e-03	1.24	152.11	31.84	119.19	64.75	53.62
		186	1.05	24.50	2.60	24.43	2.67	1.24	184.29	62.44	129.66	117.07	60.60
		185	1.00	17.25	1.12	17.16	1.22	1.24	208.38	54.05	142.74	119.69	76.30
		184	0.97	16.70	-1.55	16.62	-1.46	1.24	176.36	23.28	132.28	67.37	69.32
87	1	43	2.22	0.01	-0.04	-1.39e-04	-0.03	0.03	592.05	1.92	580.86	13.11	80.48
		194	2.20	0.03	-0.02	7.71e-03	0.01	0.03	638.20	119.45	608.14	149.51	121.20
		193	2.55	0.03	-0.02	4.78e-03	9.85e-03	0.03	730.93	118.35	684.50	164.78	162.12
		192	2.54	0.01	-0.04	-3.07e-03	-0.03	0.03	679.84	5.75	657.22	28.38	121.40
87	6	43	2.17	21.66	-0.46	21.45	-0.25	2.14	467.35	75.92	458.03	85.24	59.67
		194	2.16	22.31	2.61	22.07	2.85	2.14	472.92	89.60	461.24	101.29	65.89
		193	2.06	15.72	1.19	15.39	1.52	2.14	485.97	90.54	472.89	103.62	70.70
		192	2.07	15.05	-1.86	14.77	-1.59	2.14	480.28	76.98	469.69	87.57	64.49
88	1	45	3.97	-0.02	-0.29	-0.28	-0.03	0.05	1014.02	-81.93	1013.56	-81.47	-22.49
		202	3.67	0.02	-0.28	-0.27	9.10e-03	0.05	1119.29	434.22	1117.13	436.38	38.40
		201	4.24	0.01	-0.30	-0.29	4.68e-03	0.05	1277.19	413.32	1231.30	459.21	193.75
		200	4.43	-0.03	-0.31	-0.30	-0.04	0.05	1142.42	-73.33	1127.73	-58.63	132.86
88	4	45	2.83	-0.02	-0.20	-0.19	-0.02	0.03	723.13	-58.13	722.90	-57.90	-13.49
		202	2.62	0.01	-0.19	-0.19	6.57e-03	0.03	798.59	309.63	796.77	311.45	29.80
		201	3.03	7.93e-03	-0.21	-0.21	3.24e-03	0.03	911.80	293.84	877.95	327.69	140.61
		200	3.16	-0.02	-0.22	-0.21	-0.03	0.03	815.13	-52.72	804.08	-41.67	97.31
89	1	47	9.27	-6.64e-03	-0.57	-0.57	-6.65e-03	-2.28e-03	-64.14	-2499.03	-2498.29	-64.88	42.52
		210	9.24	-7.99e-03	-0.57	-0.57	-8.00e-03	-2.28e-03	-97.46	-2507.44	-2505.24	-99.66	72.83
		209	9.04	5.83e-03	-0.50	-0.50	5.82e-03	-2.28e-03	-86.64	-2450.06	-2448.41	-88.29	62.40
		208	9.07	7.18e-03	-0.50	-0.50	7.17e-03	-2.28e-03	-53.08	-2441.88	-2441.45	-53.52	32.09
89	6	47	6.81	1.18	-5.40	-5.40	1.17	-0.14	-56.97	-1804.35	-1803.66	-57.66	34.65
		210	6.79	1.04	-5.43	-5.43	1.03	-0.14	-78.17	-1810.44	-1808.21	-80.40	62.16
		209	6.55	1.63	-2.49	-2.49	1.62	-0.14	-68.27	-1758.43	-1756.62	-70.09	55.34
		208	6.57	1.76	-2.47	-2.46	1.76	-0.14	-46.89	-1752.53	-1752.07	-47.34	27.83
90	1	49	5.79	-0.02	-0.23	-0.23	-0.02	-7.96e-03	1547.95	11.94	1536.81	23.08	130.34
		218	5.64	6.44e-03	-0.22	-0.22	6.17e-03	-7.96e-03	1632.61	305.68	1599.87	338.41	205.83
		217	6.28	0.01	-0.20	-0.20	9.99e-03	-7.96e-03	1804.21	303.93	1741.42	366.72	300.43
		216	6.37	-0.01	-0.21	-0.21	-0.02	-7.96e-03	1708.88	20.86	1678.35	51.39	224.94

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
90	6	49	4.43	10.40	-0.05	10.39	-0.04	0.33	1151.49	80.67	1140.88	91.29	106.10
		218	4.37	10.83	2.05	10.82	2.06	0.33	1190.54	215.99	1169.94	236.59	140.19
		217	4.56	6.96	1.27	6.94	1.29	0.33	1267.07	216.19	1233.87	249.38	183.79
		216	4.61	6.53	-0.83	6.52	-0.82	0.33	1224.81	84.08	1204.81	104.08	149.69
91	1	51	1.41	-7.71e-03	-0.04	-0.02	-0.03	0.02	358.67	-33.35	358.62	-33.30	-4.37
		226	1.33	0.02	-0.02	-0.01	7.92e-03	0.02	407.41	179.28	402.18	184.50	34.13
		225	1.68	0.02	-0.02	-0.02	7.64e-03	0.02	506.53	166.77	474.36	198.94	99.47
		224	1.70	-8.64e-03	-0.04	-0.02	-0.03	0.02	438.92	-26.99	430.80	-18.87	60.97
91	6	51	1.50	18.88	-0.08	18.82	-0.02	1.05	296.36	49.33	296.18	49.51	6.69
		226	1.46	19.38	2.39	19.32	2.46	1.05	312.38	125.83	311.60	126.61	12.02
		225	1.39	13.54	1.19	13.45	1.28	1.05	327.80	122.41	321.60	128.61	35.15
		224	1.42	13.03	-1.27	12.96	-1.19	1.05	309.63	48.07	306.18	51.51	29.82
92	1	53	0.40	0.02	-0.04	6.08e-03	-0.03	0.02	89.19	-27.87	84.36	-23.04	23.29
		234	0.74	0.04	-0.01	0.01	0.01	0.02	224.88	77.24	124.49	177.62	68.87
		233	1.13	0.03	-0.02	-3.23e-03	8.41e-03	0.02	331.63	73.04	209.95	194.72	129.07
		232	0.85	3.23e-03	-0.05	-0.01	-0.03	0.02	203.16	-39.28	169.82	-5.95	83.49
92	6	53	0.81	20.54	-0.26	20.41	-0.14	1.61	104.62	44.72	93.04	56.29	23.65
		234	0.85	21.10	2.48	20.96	2.62	1.61	148.29	78.14	105.89	120.54	34.30
		233	0.84	14.93	1.18	14.74	1.37	1.61	178.78	71.61	125.86	124.54	53.58
		232	0.78	14.35	-1.55	14.19	-1.38	1.61	137.02	36.27	113.01	60.29	42.93
93	1	55	0.56	9.19e-03	-0.04	-4.08e-03	-0.03	0.02	113.59	-56.65	81.69	-24.76	66.42
		242	0.95	0.03	-0.01	4.36e-03	0.01	0.02	268.46	32.65	122.39	178.72	114.49
		241	1.38	0.02	-0.03	-0.01	8.97e-03	0.02	380.34	28.92	212.51	196.75	175.53
		240	1.06	-4.57e-03	-0.05	-0.02	-0.03	0.02	238.16	-73.08	171.82	-6.74	127.47
93	4	55	0.40	6.63e-03	-0.03	-2.97e-03	-0.02	0.02	80.27	-39.62	57.75	-17.10	46.83
		242	0.68	0.02	-0.01	3.08e-03	9.35e-03	0.02	190.49	23.58	86.66	127.42	80.93
		241	0.98	0.02	-0.02	-0.01	6.70e-03	0.02	269.79	21.01	150.59	140.20	124.28
		240	0.75	-3.24e-03	-0.04	-0.02	-0.02	0.02	168.70	-51.32	121.69	-4.31	90.18
94	2	60	0.80	17.20	2.51	16.93	2.78	-1.97	8.68	-102.93	-102.92	8.68	0.60
		182	0.90	16.93	1.28	16.68	1.53	-1.97	74.55	-90.36	-89.85	74.04	-9.12
		181	0.88	12.95	0.41	12.64	0.72	-1.97	71.01	-108.70	-108.08	70.40	10.48
		180	0.79	13.23	1.62	12.88	1.97	-1.97	8.19	-124.31	-121.16	5.03	20.21
94	6	60	0.80	17.20	2.51	16.93	2.78	-1.97	8.68	-102.93	-102.92	8.68	0.60
		182	0.90	16.93	1.28	16.68	1.53	-1.97	74.55	-90.36	-89.85	74.04	-9.12
		181	0.88	12.95	0.41	12.64	0.72	-1.97	71.01	-108.70	-108.08	70.40	10.48
		180	0.79	13.23	1.62	12.88	1.97	-1.97	8.19	-124.31	-121.16	5.03	20.21
95	2	63	0.77	20.49	2.56	20.46	2.59	-0.75	10.26	-71.11	-70.55	9.70	6.74
		190	0.83	20.37	1.95	20.34	1.98	-0.75	52.59	-61.97	-61.97	52.58	0.44
		189	0.76	15.35	0.93	15.31	0.97	-0.75	51.63	-75.19	-73.78	50.22	13.31
		188	0.71	15.47	1.55	15.43	1.59	-0.75	11.44	-86.45	-82.35	7.34	19.60
95	6	63	0.77	20.49	2.56	20.46	2.59	-0.75	10.26	-71.11	-70.55	9.70	6.74
		190	0.83	20.37	1.95	20.34	1.98	-0.75	52.59	-61.97	-61.97	52.58	0.44
		189	0.76	15.35	0.93	15.31	0.97	-0.75	51.63	-75.19	-73.78	50.22	13.31
		188	0.71	15.47	1.55	15.43	1.59	-0.75	11.44	-86.45	-82.35	7.34	19.60
96	1	66	3.70	-0.03	-0.19	-0.19	-0.03	0.03	1055.99	160.05	1046.15	169.89	-93.37
		198	3.79	0.02	-0.18	-0.18	0.01	0.03	1093.71	195.35	1058.32	230.74	-174.75
		197	3.25	0.06	-0.03	-0.02	0.04	0.03	938.87	167.06	905.72	200.22	-156.50
		196	3.16	0.02	-0.05	-0.03	-3.90e-04	0.03	900.95	131.96	893.55	139.37	-75.11
96	6	66	2.96	13.14	2.15	13.14	2.16	0.14	740.60	66.11	734.26	72.45	-65.11
		198	2.95	13.11	2.00	13.11	2.00	0.14	767.23	135.83	750.31	152.74	-101.96
		197	2.62	9.87	1.35	9.87	1.35	0.14	692.18	127.96	681.22	138.92	-77.87
		196	2.64	9.90	1.51	9.90	1.51	0.14	667.92	55.87	665.16	58.63	-41.02
97	1	69	6.92	0.02	-0.53	-0.53	0.02	0.02	-79.86	-1879.57	-1872.61	-86.82	-111.72
		206	7.05	-2.01e-03	-0.54	-0.54	-2.49e-03	0.02	39.98	-1857.24	-1848.91	31.65	-125.44
		205	7.12	7.06e-03	-0.49	-0.49	6.56e-03	0.02	30.75	-1878.88	-1874.64	26.51	-89.90
		204	6.98	0.03	-0.49	-0.49	0.03	0.02	-88.76	-1901.54	-1898.33	-91.97	-76.18
97	6	69	5.11	1.51	-3.47	-3.29	1.32	0.94	-77.89	-1375.30	-1366.05	-87.13	-109.14
		206	5.22	1.53	-3.47	-3.28	1.35	0.94	21.98	-1356.24	-1346.23	11.97	-117.01
		205	5.19	2.18	-0.99	-0.68	1.87	0.94	14.56	-1366.53	-1361.00	9.02	-87.28
		204	5.08	2.16	-1.00	-0.69	1.84	0.94	-85.22	-1385.68	-1380.82	-90.09	-79.40
98	1	72	2.19	0.05	-0.41	-0.40	0.04	-0.06	199.67	-453.80	-451.45	197.33	39.11
		214	2.03	-8.39e-03	-0.42	-0.41	-0.02	-0.06	120.60	-468.35	-467.05	119.30	-27.61
		213	2.45	-0.03	-0.52	-0.52	-0.04	-0.06	98.05	-595.92	-592.15	94.28	-51.02
		212	2.56	0.03	-0.51	-0.51	0.02	-0.06	172.63	-576.87	-576.54	172.31	15.70
98	6	72	1.70	3.60	-1.07	0.28	2.25	-2.12	121.51	-376.28	-367.66	112.88	64.96
		214	1.60	2.88	-1.52	0.09	1.27	-2.12	82.88	-377.03	-374.22	80.07	35.85
		213	1.78	2.74	-1.73	-0.20	1.21	-2.12	70.50	-430.16	-428.80	69.15	26.01
		212	1.86	3.48	-1.29	-8.74e-03	2.19	-2.12	107.70	-427.97	-422.24	101.96	55.12
99	1	75	2.21	-3.85e-03	-0.11	-0.10	-0.01	-0.03	623.46	77.68	617.85	83.30	-55.06
		222	2.26	1.16e-03	-0.11	-0.10	-5.29e-03	-0.03	655.68	129.04	631.78	152.95	-109.62
		221	1.88	0.01	-0.07	-0.06	2.40e-03	-0.03	548.40	113.56	529.47	132.48	-88.73
		220	1.84	6.54e-03	-0.07	-0.06	-2.87e-03	-0.03	518.11	60.27	515.54	62.83	-34.16
99	6	75	1.87	12.59	2.29	12.32	2.57	-1.67	427.30	9.72	425.91	11.10	-24.01
		222	1.83	12.36	1.25	12.10	1.51	-1.67	448.06	91.73	443.04	96.75	-42.00

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		221	1.62	9.36	0.56	9.03	0.89	-1.67	410.13	89.18	409.30	90.01	-16.31
		220	1.67	9.61	1.59	9.24	1.95	-1.67	392.18	4.34	392.17	4.35	1.69
100	1	78	0.84	0.01	-0.05	-0.05	8.18e-03	-0.02	94.79	-160.93	-135.24	69.10	-76.88
		230	1.10	3.82e-03	-0.05	-0.05	-1.01e-03	-0.02	165.57	-172.90	-125.44	118.11	-117.52
		229	1.21	0.01	-0.03	-0.02	3.80e-03	-0.02	134.33	-233.12	-201.65	102.87	-102.82
		228	1.00	0.02	-0.03	-0.02	0.01	-0.02	67.70	-225.30	-211.45	53.86	-62.17
100	6	78	0.89	17.15	2.46	17.07	2.54	-1.09	14.67	-135.56	-121.34	0.45	-43.98
		230	1.00	16.99	1.68	16.91	1.75	-1.09	84.85	-121.10	-107.23	70.97	-51.62
		229	0.93	12.94	0.84	12.84	0.94	-1.09	72.88	-126.33	-121.55	68.11	-30.46
		228	0.82	13.10	1.62	13.00	1.73	-1.09	1.38	-139.46	-135.66	-2.42	-22.83
101	1	81	1.01	0.02	-0.06	-0.05	0.01	-0.01	84.00	-216.62	-210.44	77.82	-42.68
		238	1.18	3.37e-03	-0.06	-0.06	-3.32e-04	-0.01	135.16	-223.69	-203.09	114.56	-83.48
		237	1.36	6.77e-03	-0.05	-0.04	2.33e-03	-0.01	112.64	-292.98	-279.60	99.26	-72.46
		236	1.23	0.02	-0.04	-0.04	0.02	-0.01	65.36	-289.79	-286.94	62.52	-31.65
101	6	81	1.03	15.19	2.28	15.17	2.29	-0.39	9.34	-176.94	-174.52	6.91	-21.13
		238	1.12	15.10	1.83	15.08	1.84	-0.39	71.63	-165.83	-162.28	68.08	-28.81
		237	1.07	11.43	1.10	11.42	1.11	-0.39	65.65	-177.14	-176.69	65.20	-10.46
		236	0.98	11.52	1.55	11.51	1.56	-0.39	4.07	-188.96	-188.92	4.03	-2.78
102	1	84	1.17	0.01	-0.06	-0.06	0.01	-0.01	66.90	-271.88	-270.62	65.64	20.65
		246	1.21	9.12e-04	-0.06	-0.06	-2.52e-03	-0.01	93.85	-265.81	-265.11	93.16	-15.76
		245	1.42	3.34e-03	-0.05	-0.05	-5.71e-04	-0.01	79.64	-333.51	-333.37	79.51	-7.50
		244	1.39	0.02	-0.05	-0.05	0.01	-0.01	54.11	-341.01	-338.88	51.98	28.91
102	4	84	0.83	0.01	-0.04	-0.04	8.70e-03	-0.01	47.82	-193.97	-193.12	46.97	14.28
		246	0.87	9.80e-04	-0.04	-0.04	-1.49e-03	-0.01	67.02	-189.73	-189.21	66.50	-11.55
		245	1.02	2.69e-03	-0.04	-0.04	-1.20e-04	-0.01	56.93	-237.74	-237.63	56.82	-5.69
		244	0.99	0.01	-0.04	-0.03	0.01	-0.01	38.73	-242.99	-241.54	37.29	20.14
103	2	248	3.69	2.70	-5.14	0.69	-3.13	3.42	1082.52	282.35	306.90	1057.96	138.00
		249	1.75	13.96	2.71	3.87	12.80	3.42	298.26	-187.03	97.96	13.27	238.92
		130	1.14	13.05	-0.48	0.45	12.12	3.42	275.70	39.37	267.82	47.25	-42.41
		25	3.79	0.19	-6.74	-2.74	-3.81	3.42	1123.69	445.01	476.76	1091.94	-143.33
103	6	248	3.69	2.70	-5.14	0.69	-3.13	3.42	1082.52	282.35	306.90	1057.96	138.00
		249	1.75	13.96	2.71	3.87	12.80	3.42	298.26	-187.03	97.96	13.27	238.92
		130	1.14	13.05	-0.48	0.45	12.12	3.42	275.70	39.37	267.82	47.25	-42.41
		25	3.79	0.19	-6.74	-2.74	-3.81	3.42	1123.69	445.01	476.76	1091.94	-143.33
104	1	177	1.02	-1.11e-03	-0.02	-1.11e-03	-0.02	-8.83e-05	132.91	-180.46	-53.29	5.74	153.88
		170	1.17	0.01	5.38e-03	5.38e-03	0.01	-8.83e-05	238.54	-116.05	-24.95	147.45	154.93
		131	1.45	0.01	-1.32e-04	-1.31e-04	0.01	-8.83e-05	282.70	-157.54	-22.73	147.89	202.91
		132	1.33	-6.62e-03	-0.02	-6.62e-03	-0.02	-8.83e-05	181.44	-226.33	-51.08	6.18	201.87
104	6	177	0.78	4.09	0.62	0.81	3.90	-0.79	79.01	-146.69	-55.44	-12.24	110.77
		170	0.97	6.42	1.17	1.29	6.30	-0.79	174.49	-109.91	-33.39	97.97	126.12
		131	1.16	6.20	0.16	0.26	6.10	-0.79	223.51	-119.93	-0.90	104.47	163.44
		132	1.00	3.85	-0.37	-0.22	3.70	-0.79	133.99	-162.67	-22.94	-5.74	148.08
105	2	7	0.49	4.17	0.71	2.30	2.59	-1.73	101.59	-25.59	61.81	14.19	58.96
		172	0.51	3.65	0.17	2.12	1.70	-1.73	140.19	32.05	77.85	94.39	53.44
		171	0.64	3.17	-0.29	1.34	1.54	-1.73	158.39	1.42	67.49	92.32	77.50
		170	0.64	3.76	0.19	1.52	2.43	-1.73	117.10	-53.54	51.45	12.12	83.02
105	6	7	0.49	4.17	0.71	2.30	2.59	-1.73	101.59	-25.59	61.81	14.19	58.96
		172	0.51	3.65	0.17	2.12	1.70	-1.73	140.19	32.05	77.85	94.39	53.44
		171	0.64	3.17	-0.29	1.34	1.54	-1.73	158.39	1.42	67.49	92.32	77.50
		170	0.64	3.76	0.19	1.52	2.43	-1.73	117.10	-53.54	51.45	12.12	83.02
106	2	133	2.61	52.50	1.98	4.85	49.63	-11.70	396.70	29.04	144.46	281.28	-170.62
		134	2.99	34.20	-3.17	0.95	30.09	-11.70	572.37	-4.61	168.13	399.63	-264.25
		136	2.88	35.95	2.11	6.80	31.26	-11.70	444.92	-158.03	-65.93	352.82	-216.91
		88	2.55	53.96	7.55	10.71	50.80	-11.70	276.03	-131.17	-89.60	234.47	-123.28
106	6	133	2.61	52.50	1.98	4.85	49.63	-11.70	396.70	29.04	144.46	281.28	-170.62
		134	2.99	34.20	-3.17	0.95	30.09	-11.70	572.37	-4.61	168.13	399.63	-264.25
		136	2.88	35.95	2.11	6.80	31.26	-11.70	444.92	-158.03	-65.93	352.82	-216.91
		88	2.55	53.96	7.55	10.71	50.80	-11.70	276.03	-131.17	-89.60	234.47	-123.28
107	2	135	3.44	29.17	1.05	4.98	25.23	-9.75	725.60	-11.41	23.86	690.33	-157.32
		59	1.38	23.62	-1.07	3.70	18.84	-9.75	178.36	-81.62	-79.05	175.79	-25.72
		137	2.30	24.49	0.92	6.09	19.32	-9.75	477.35	14.19	249.95	241.58	-231.54
		134	4.11	29.93	3.15	7.37	25.71	-9.75	969.86	139.13	352.86	756.13	-363.14
107	6	135	3.44	29.17	1.05	4.98	25.23	-9.75	725.60	-11.41	23.86	690.33	-157.32
		59	1.38	23.62	-1.07	3.70	18.84	-9.75	178.36	-81.62	-79.05	175.79	-25.72
		137	2.30	24.49	0.92	6.09	19.32	-9.75	477.35	14.19	249.95	241.58	-231.54
		134	4.11	29.93	3.15	7.37	25.71	-9.75	969.86	139.13	352.86	756.13	-363.14
108	2	134	3.39	35.15	5.00	8.55	31.61	-9.71	711.51	-1.96	286.29	423.27	-350.10
		137	5.41	19.73	-1.46	4.90	13.37	-9.71	1491.12	429.08	488.06	1432.14	-243.24
		10	5.13	17.68	-5.40	-0.10	12.37	-9.71	1519.21	721.58	755.23	1485.57	160.32
		136	2.38	33.73	0.42	3.55	30.61	-9.71	580.87	449.28	553.45	476.70	53.45
108	6	134	3.39	35.15	5.00	8.55	31.61	-9.71	711.51	-1.96	286.29	423.27	-350.10
		137	5.41	19.73	-1.46	4.90	13.37	-9.71	1491.12	429.08	488.06	1432.14	-243.24
		10	5.13	17.68	-5.40	-0.10	12.37	-9.71	1519.21	721.58	755.23	1485.57	160.32
		136	2.38	33.73	0.42	3.55	30.61	-9.71	580.87	449.28	553.45	476.70	53.45

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
109	2	9	0.93	30.40	-0.17	0.76	29.47	5.26	64.72	-79.37	-28.28	13.63	-68.93
		85	1.82	41.33	2.27	2.99	40.61	5.26	239.00	7.50	15.24	231.26	-41.62
		138	1.83	41.43	2.75	3.48	40.70	5.26	251.15	68.89	76.53	243.51	36.53
		139	0.82	30.51	0.30	1.25	29.56	5.26	39.33	19.57	33.01	25.89	9.21
109	5	9	1.34	30.40	-0.17	0.77	29.47	5.26	187.46	-42.07	-4.20	149.60	-85.19
		85	2.34	41.33	2.27	2.99	40.60	5.26	392.74	29.79	41.99	380.55	-65.41
		138	2.33	41.43	2.74	3.47	40.70	5.26	390.43	85.37	86.38	389.42	17.52
		139	1.27	30.51	0.30	1.25	29.56	5.26	158.52	40.15	40.19	158.48	-2.26
110	1	86	4.55	0.04	-0.05	-0.04	0.04	0.02	1397.45	626.37	670.04	1353.79	178.23
		5	4.34	0.08	-0.04	-0.04	0.08	0.02	1334.86	665.92	666.20	1334.58	13.65
		133	4.33	0.09	0.02	0.02	0.09	0.02	1241.72	201.79	201.81	1241.70	4.98
		140	4.53	0.06	7.49e-03	0.01	0.05	0.02	1287.48	179.08	205.66	1260.91	169.56
110	6	86	4.65	43.65	1.11	2.56	42.21	-7.70	1180.86	352.06	489.75	1043.17	308.48
		5	2.18	50.57	2.70	3.97	49.30	-7.70	500.67	116.40	337.11	279.96	190.00
		133	2.42	49.47	-2.22	-1.04	48.29	-7.70	294.88	-79.01	2.78	213.09	-154.57
		140	4.49	42.52	-3.78	-2.46	41.21	-7.70	977.88	153.84	155.42	976.30	-36.08
111	1	161	2.09	0.10	0.05	0.05	0.10	-1.71e-03	634.18	400.30	447.28	587.20	93.70
		30	2.66	0.08	0.05	0.05	0.08	-1.71e-03	812.08	491.73	492.16	811.64	-11.80
		141	2.58	0.08	0.07	0.07	0.08	-1.71e-03	770.11	217.18	228.40	758.89	77.97
		165	2.13	0.10	0.08	0.08	0.10	-1.71e-03	612.86	105.11	183.51	534.45	183.48
111	6	161	3.10	21.29	1.40	4.21	18.48	-6.94	860.20	125.47	360.42	625.25	342.67
		30	2.25	34.12	5.21	6.99	32.35	-6.94	394.25	-135.47	239.27	19.51	240.99
		141	0.91	32.37	-1.75	-0.27	30.90	-6.94	-14.82	-31.44	-14.92	-31.33	-1.30
		165	2.46	19.19	-5.21	-3.05	17.03	-6.94	595.02	85.62	106.23	574.41	100.37
112	2	250	2.56	19.38	2.51	2.89	19.00	-2.50	507.38	-99.89	-83.11	490.60	-99.54
		62	1.13	19.17	2.46	2.85	18.78	-2.50	72.73	-166.94	-166.73	72.51	7.15
		142	1.40	18.34	-1.30	-0.98	18.02	-2.50	273.54	-47.67	100.01	125.86	-160.08
		329	2.90	18.56	-1.26	-0.94	18.24	-2.50	685.70	41.88	183.63	543.95	-266.78
112	6	250	2.56	19.38	2.51	2.89	19.00	-2.50	507.38	-99.89	-83.11	490.60	-99.54
		62	1.13	19.17	2.46	2.85	18.78	-2.50	72.73	-166.94	-166.73	72.51	7.15
		142	1.40	18.34	-1.30	-0.98	18.02	-2.50	273.54	-47.67	100.01	125.86	-160.08
		329	2.90	18.56	-1.26	-0.94	18.24	-2.50	685.70	41.88	183.63	543.95	-266.78
113	2	251	3.09	20.06	2.16	2.47	19.76	-2.32	778.84	17.87	276.74	519.97	360.53
		31	2.30	33.60	5.01	5.20	33.41	-2.32	333.89	-246.30	158.55	-70.97	266.43
		143	1.18	31.83	-3.64	-3.49	31.68	-2.32	-60.88	-133.83	-76.69	-118.01	30.06
		333	2.33	18.24	-6.44	-6.22	18.02	-2.32	506.10	8.32	41.50	472.92	124.15
113	5	251	2.95	20.06	2.14	2.45	19.75	-2.32	714.43	-25.25	189.82	499.36	335.90
		31	2.38	33.57	4.98	5.17	33.38	-2.32	233.20	-345.89	56.18	-168.86	266.79
		143	1.42	31.80	-3.67	-3.51	31.65	-2.32	-116.59	-203.42	-116.60	-203.42	-0.50
		333	2.27	18.23	-6.46	-6.24	18.01	-2.32	475.08	6.77	17.05	464.80	68.61
114	2	252	2.14	20.16	2.06	2.20	20.02	1.60	480.02	65.08	74.07	471.03	-60.41
		65	0.87	19.50	1.92	2.07	19.36	1.60	106.41	-17.59	-1.98	90.80	41.14
		144	1.24	18.76	-1.69	-1.56	18.63	1.60	320.65	72.83	251.90	141.58	-110.95
		255	2.49	19.42	-1.55	-1.43	19.30	1.60	658.44	191.31	327.94	521.80	-212.50
114	6	252	2.14	20.16	2.06	2.20	20.02	1.60	480.02	65.08	74.07	471.03	-60.41
		65	0.87	19.50	1.92	2.07	19.36	1.60	106.41	-17.59	-1.98	90.80	41.14
		144	1.24	18.76	-1.69	-1.56	18.63	1.60	320.65	72.83	251.90	141.58	-110.95
		255	2.49	19.42	-1.55	-1.43	19.30	1.60	658.44	191.31	327.94	521.80	-212.50
115	1	257	3.86	0.25	0.05	0.23	0.06	-0.06	1187.04	602.53	1153.59	635.97	135.75
		32	4.05	0.26	0.08	0.24	0.10	-0.06	1203.25	879.82	1202.51	880.56	-15.41
		145	3.10	0.09	-0.03	0.01	0.05	-0.06	897.79	731.78	824.60	804.97	82.42
		260	3.01	0.07	-0.04	6.08e-03	0.02	-0.06	925.23	410.84	775.68	560.39	233.59
115	6	257	4.04	20.22	1.98	2.12	20.08	1.61	1156.75	366.36	869.90	653.21	380.05
		32	3.37	33.51	4.70	4.79	33.42	1.61	831.18	-0.01	754.58	76.59	240.43
		145	2.09	31.98	-2.86	-2.79	31.90	1.61	405.76	6.54	405.52	6.78	9.78
		260	2.57	18.67	-5.56	-5.46	18.56	1.61	704.76	399.48	520.85	583.39	149.40
116	1	262	3.41	0.10	-0.20	-0.20	0.10	0.02	995.55	216.62	863.78	348.39	-292.02
		68	3.68	0.06	-0.21	-0.21	0.06	0.02	770.58	-332.90	734.70	-297.01	-195.73
		146	5.14	0.06	-0.18	-0.18	0.06	0.02	1125.34	-398.78	975.42	-248.87	-453.89
		265	5.10	0.10	-0.18	-0.17	0.10	0.02	1404.74	96.30	1104.50	396.53	-550.18
116	6	262	2.79	21.39	0.05	1.41	20.03	5.21	819.48	283.75	658.50	444.74	-245.62
		68	3.01	20.42	-0.21	1.20	19.01	5.21	563.84	-217.59	532.33	-186.09	-153.71
		146	4.50	20.02	-1.74	-0.42	18.69	5.21	917.93	-295.95	762.11	-140.13	-406.04
		265	4.52	20.98	-1.49	-0.21	19.70	5.21	1225.64	153.32	888.27	490.69	-497.95
117	1	267	2.49	-6.56e-04	-0.27	-0.27	-8.60e-03	0.05	-149.62	-725.52	-581.17	-293.97	-249.59
		33	2.57	0.03	-0.27	-0.26	0.02	0.05	-7.40	-687.24	-551.08	-143.55	-272.08
		147	2.47	0.02	-0.29	-0.29	0.01	0.05	-71.06	-691.04	-607.30	-154.80	-211.91
		270	2.41	-6.61e-03	-0.30	-0.29	-0.01	0.05	-219.38	-723.22	-637.39	-305.21	-189.42
117	6	267	1.69	22.55	-0.94	1.20	20.40	6.77	-26.11	-431.69	-391.14	-66.66	-121.65
		33	1.76	23.38	-0.70	1.38	21.30	6.77	5.02	-435.96	-386.67	-44.28	-138.96
		147	1.91	22.60	-3.44	-1.55	20.71	6.77	-12.45	-470.41	-429.93	-52.93	-130.01
		270	1.84	21.76	-3.68	-1.73	19.81	6.77	-42.87	-466.85	-434.40	-75.31	-112.70
118	1	272	7.11	7.76e-03	-0.33	-0.33	7.72e-03	3.54e-03	-404.01	-2063.21	-2052.66	-414.55	-131.86
		71	7.06	6.33e-03	-0.33	-0.33	6.29e-03	3.54e-03	-416.91	-2054.46	-2053.35	-418.01	-42.50

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		148	6.29	0.02	-0.28	-0.28	0.02	3.54e-03	-372.02	-1831.30	-1829.98	-373.34	-43.89
		275	6.35	0.02	-0.28	-0.28	0.02	3.54e-03	-357.81	-1841.35	-1829.28	-369.88	-133.24
118	6	272	5.28	21.22	0.99	1.17	21.04	1.87	-245.39	-1468.41	-1462.68	-251.12	-83.52
		71	5.25	21.25	1.00	1.17	21.07	1.87	-261.10	-1465.36	-1464.79	-261.67	-26.13
		148	4.80	20.89	-0.69	-0.53	20.73	1.87	-232.12	-1322.15	-1321.31	-232.97	-30.35
		275	4.83	20.87	-0.70	-0.54	20.70	1.87	-215.45	-1326.17	-1319.20	-222.43	-87.74
119	1	277	5.47	0.01	-0.32	-0.32	9.59e-03	-0.02	-278.65	-1574.65	-1541.05	-312.25	205.95
		34	5.51	8.31e-03	-0.32	-0.32	7.56e-03	-0.02	-297.50	-1592.41	-1547.15	-342.75	237.81
		149	5.22	0.02	-0.29	-0.29	0.01	-0.02	-283.82	-1510.51	-1467.50	-326.82	225.61
		280	5.18	0.02	-0.29	-0.28	0.02	-0.02	-264.94	-1492.78	-1461.40	-296.32	193.75
119	6	277	4.07	21.62	0.61	1.17	21.05	-3.41	-161.41	-1113.94	-1097.23	-178.12	125.07
		34	4.07	21.83	0.65	1.22	21.26	-3.41	-167.84	-1118.18	-1099.01	-187.02	133.63
		149	4.04	21.42	-1.13	-0.60	20.90	-3.41	-164.22	-1096.12	-1077.59	-182.74	130.07
		280	4.04	21.21	-1.18	-0.65	20.68	-3.41	-157.76	-1091.90	-1075.81	-173.84	121.51
120	1	282	2.28	-3.33e-03	-0.27	-0.27	-7.25e-03	-0.03	494.21	-181.07	408.96	-95.83	224.27
		74	2.87	0.05	-0.26	-0.26	0.05	-0.03	431.62	-451.18	353.51	-373.07	250.70
		150	2.70	0.07	-0.16	-0.16	0.07	-0.03	443.89	-384.18	419.58	-359.86	139.80
		285	2.09	0.02	-0.18	-0.17	0.01	-0.03	497.19	-104.78	475.03	-82.61	113.37
120	6	282	1.74	22.24	-0.69	1.15	20.40	-6.23	379.32	13.07	318.41	73.98	136.38
		74	2.52	20.91	-1.07	0.87	18.97	-6.23	319.80	-305.63	255.38	-241.21	190.12
		150	2.46	20.72	-1.72	0.17	18.83	-6.23	396.44	-221.05	389.72	-214.34	64.04
		285	1.79	22.05	-1.35	0.45	20.26	-6.23	453.06	100.54	452.76	100.85	10.30
121	1	287	5.15	0.08	-0.31	-0.31	0.08	0.03	1532.66	416.54	1477.95	471.26	240.99
		35	5.17	-0.01	-0.33	-0.33	-0.01	0.03	1577.19	952.43	1574.68	954.94	39.53
		151	3.98	0.06	-0.01	8.87e-04	0.05	0.03	1219.62	705.63	1071.04	854.21	233.00
		290	4.26	0.15	0.01	0.02	0.14	0.03	1201.46	143.36	974.30	370.53	434.46
121	6	287	4.90	22.20	-0.76	1.39	20.04	-6.70	1363.97	268.21	1101.73	530.45	467.53
		35	4.47	34.48	2.52	3.99	33.01	-6.70	1112.24	54.92	1024.22	142.93	292.09
		151	2.84	33.13	-3.12	-1.84	31.84	-6.70	618.95	21.88	585.62	55.21	137.08
		290	3.23	20.67	-6.22	-4.43	18.88	-6.70	884.31	221.55	663.12	442.73	312.52
122	2	292	2.32	20.73	1.22	1.87	20.08	-3.49	554.84	177.39	214.34	517.89	-112.17
		77	0.83	20.06	1.07	1.73	19.40	-3.49	135.29	116.77	134.31	117.75	-4.14
		152	1.82	19.51	-1.30	-0.70	18.91	-3.49	489.28	86.85	404.37	171.76	-164.20
		295	3.02	20.18	-1.15	-0.56	19.59	-3.49	803.87	252.43	484.40	571.90	-272.22
122	6	292	2.32	20.73	1.22	1.87	20.08	-3.49	554.84	177.39	214.34	517.89	-112.17
		77	0.83	20.06	1.07	1.73	19.40	-3.49	135.29	116.77	134.31	117.75	-4.14
		152	1.82	19.51	-1.30	-0.70	18.91	-3.49	489.28	86.85	404.37	171.76	-164.20
		295	3.02	20.18	-1.15	-0.56	19.59	-3.49	803.87	252.43	484.40	571.90	-272.22
123	1	297	1.69	0.09	0.03	0.06	0.06	-0.03	503.00	362.88	411.38	454.49	66.66
		36	2.31	0.09	0.03	0.06	0.06	-0.03	700.87	458.16	460.24	698.79	-22.41
		153	2.21	0.08	0.02	0.04	0.06	-0.03	667.45	224.37	237.57	654.25	75.31
		300	1.71	0.08	0.02	0.04	0.05	-0.03	497.47	101.20	188.71	409.96	164.38
123	5	297	2.79	20.96	1.30	2.10	20.16	-3.89	701.70	13.29	219.68	495.31	315.41
		36	2.31	33.59	4.16	4.68	33.07	-3.89	248.54	-297.30	92.39	-141.15	246.68
		153	1.35	31.98	-3.35	-2.92	31.55	-3.89	-78.79	-176.16	-79.44	-175.51	-7.91
		300	2.19	19.25	-6.11	-5.50	18.64	-3.89	469.72	39.09	47.86	460.95	60.82
124	2	302	2.37	20.16	2.07	2.09	20.13	-0.67	442.28	-114.48	-101.18	428.98	-85.02
		80	1.12	19.38	1.91	1.93	19.35	-0.67	51.61	-178.30	-176.93	50.24	17.69
		154	1.17	18.71	-1.40	-1.38	18.69	-0.67	224.97	-43.53	79.84	101.59	-133.81
		305	2.59	19.49	-1.25	-1.22	19.47	-0.67	604.85	31.07	155.59	480.34	-236.51
124	6	302	2.37	20.16	2.07	2.09	20.13	-0.67	442.28	-114.48	-101.18	428.98	-85.02
		80	1.12	19.38	1.91	1.93	19.35	-0.67	51.61	-178.30	-176.93	50.24	17.69
		154	1.17	18.71	-1.40	-1.38	18.69	-0.67	224.97	-43.53	79.84	101.59	-133.81
		305	2.59	19.49	-1.25	-1.22	19.47	-0.67	604.85	31.07	155.59	480.34	-236.51
125	1	307	1.69	0.07	0.01	0.02	0.07	-0.01	519.52	261.67	316.83	464.36	105.74
		37	2.40	0.08	0.02	0.02	0.08	-0.01	739.88	371.94	371.94	739.88	0.41
		155	2.51	0.08	2.60e-03	5.77e-03	0.07	-0.01	707.64	88.19	108.62	687.22	110.62
		310	2.02	0.07	1.51e-04	3.72e-03	0.06	-0.01	513.15	-47.94	53.51	411.69	215.94
125	6	307	3.13	20.02	2.28	2.36	19.95	-1.18	776.92	14.67	265.25	526.34	358.07
		37	2.04	32.63	4.83	4.88	32.58	-1.18	343.20	-188.06	159.17	-4.02	252.79
		155	0.93	31.06	-2.93	-2.89	31.02	-1.18	-33.31	-127.38	-104.03	-56.66	40.64
		310	2.47	18.45	-5.47	-5.41	18.39	-1.18	515.20	-39.45	2.05	473.70	145.92
126	2	312	2.43	19.60	2.71	2.93	19.38	1.90	462.66	-133.70	-120.71	449.67	-87.06
		83	1.15	18.35	2.45	2.68	18.12	1.90	44.62	-203.20	-201.96	43.38	17.48
		156	1.12	17.77	-0.30	-0.10	17.57	1.90	223.68	-68.66	59.37	95.65	-145.04
		315	2.63	19.02	-0.04	0.15	18.83	1.90	629.37	13.19	140.63	501.93	-249.57
126	6	312	2.43	19.60	2.71	2.93	19.38	1.90	462.66	-133.70	-120.71	449.67	-87.06
		83	1.15	18.35	2.45	2.68	18.12	1.90	44.62	-203.20	-201.96	43.38	17.48
		156	1.12	17.77	-0.30	-0.10	17.57	1.90	223.68	-68.66	59.37	95.65	-145.04
		315	2.63	19.02	-0.04	0.15	18.83	1.90	629.37	13.19	140.63	501.93	-249.57
127	2	317	3.13	18.91	4.01	4.29	18.63	2.03	759.33	21.25	267.72	512.87	348.09
		38	1.89	32.01	6.77	6.93	31.84	2.03	319.05	-195.70	158.18	-34.83	238.60
		157	0.96	30.90	1.38	1.52	30.76	2.03	-79.11	-126.00	-115.54	-89.57	19.52
		320	2.37	17.76	-1.34	-1.12	17.55	2.03	491.57	-39.45	-6.00	458.12	129.01

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
127	6	317	3.13	18.91	4.01	4.29	18.63	2.03	759.33	21.25	267.72	512.87	348.09
		38	1.89	32.01	6.77	6.93	31.84	2.03	319.05	-195.70	158.18	-34.83	238.60
		157	0.96	30.90	1.38	1.52	30.76	2.03	-79.11	-126.00	-115.54	-89.57	19.52
		320	2.37	17.76	-1.34	-1.12	17.55	2.03	491.57	-39.45	-6.00	458.12	129.01
128	2	322	2.24	24.51	-0.21	2.35	21.94	7.54	439.55	-102.58	-68.78	405.75	-131.08
		9	1.03	32.13	1.97	3.99	30.11	7.54	5.92	-169.22	-152.15	-11.15	-51.94
		139	1.87	32.90	4.78	6.97	30.71	7.54	255.92	-181.81	45.69	28.42	-218.70
		325	2.56	25.38	2.50	5.34	22.54	7.54	624.40	-50.02	129.07	445.31	-297.83
128	6	322	2.24	24.51	-0.21	2.35	21.94	7.54	439.55	-102.58	-68.78	405.75	-131.08
		9	1.03	32.13	1.97	3.99	30.11	7.54	5.92	-169.22	-152.15	-11.15	-51.94
		139	1.87	32.90	4.78	6.97	30.71	7.54	255.92	-181.81	45.69	28.42	-218.70
		325	2.56	25.38	2.50	5.34	22.54	7.54	624.40	-50.02	129.07	445.31	-297.83
129	1	158	1.31	0.15	0.02	0.02	0.14	0.02	398.68	249.44	295.81	352.31	-69.06
		159	2.45	0.11	6.16e-03	0.01	0.10	0.02	736.59	233.38	349.45	620.52	-211.99
		161	2.18	0.11	0.03	0.04	0.10	0.02	568.09	-26.89	-7.85	549.06	-104.70
		59	1.21	0.15	0.04	0.04	0.14	0.02	285.07	-65.71	-61.49	280.85	38.22
129	4	158	0.97	0.11	0.01	0.02	0.10	0.02	296.67	181.02	212.12	265.57	-51.28
		159	1.78	0.08	5.21e-03	9.48e-03	0.07	0.02	536.48	169.03	250.09	455.42	-152.37
		161	1.60	0.08	0.02	0.03	0.08	0.02	418.74	-16.50	-2.63	404.87	-76.43
		59	0.91	0.11	0.03	0.03	0.11	0.02	217.38	-42.96	-40.60	215.03	24.66
130	1	160	2.56	0.09	0.02	0.07	0.03	0.02	584.44	-166.67	-156.66	574.43	-86.13
		121	1.56	0.09	0.03	0.08	0.04	0.02	252.99	-227.06	-221.97	247.89	49.19
		162	1.16	0.09	0.03	0.08	0.04	0.02	344.60	87.30	116.34	315.55	-81.42
		159	2.57	0.09	0.02	0.08	0.03	0.02	728.07	95.67	181.65	642.09	-216.75
130	6	160	1.79	14.69	4.57	10.23	9.03	-5.03	411.08	-52.83	-47.33	405.59	-50.18
		121	0.83	13.61	3.15	9.81	6.94	-5.03	21.34	-140.26	-126.86	7.95	44.56
		162	1.10	12.26	2.12	7.84	6.55	-5.03	200.36	-35.08	109.97	55.31	-114.50
		159	2.29	13.48	3.41	8.26	8.64	-5.03	568.48	73.98	189.50	452.96	-209.24
131	2	159	1.94	22.59	5.36	10.10	17.85	-7.69	389.73	11.67	149.32	252.08	-181.91
		162	4.19	13.29	-2.54	7.23	3.51	-7.69	1208.63	319.10	337.04	1190.69	-125.05
		30	4.40	9.34	-6.11	0.97	2.26	-7.69	1295.89	402.43	479.19	1219.12	250.39
		161	1.81	20.21	0.22	3.84	16.60	-7.69	479.60	92.39	291.47	280.51	193.53
131	6	159	1.94	22.59	5.36	10.10	17.85	-7.69	389.73	11.67	149.32	252.08	-181.91
		162	4.19	13.29	-2.54	7.23	3.51	-7.69	1208.63	319.10	337.04	1190.69	-125.05
		30	4.40	9.34	-6.11	0.97	2.26	-7.69	1295.89	402.43	479.19	1219.12	250.39
		161	1.81	20.21	0.22	3.84	16.60	-7.69	479.60	92.39	291.47	280.51	193.53
132	2	105	2.42	11.91	-37.71	-23.50	-2.30	22.43	1095.61	-402.66	926.27	-233.31	-474.39
		163	2.69	86.49	-12.21	-6.82	81.10	22.43	1314.28	42.01	1036.82	319.47	-525.38
		164	2.50	80.91	-34.88	-30.36	76.39	22.43	1034.39	168.94	909.36	293.97	-304.27
		40	2.23	3.04	-57.09	-47.04	-7.01	22.43	856.33	-316.33	798.80	-258.80	-253.28
132	6	105	2.42	11.91	-37.71	-23.50	-2.30	22.43	1095.61	-402.66	926.27	-233.31	-474.39
		163	2.69	86.49	-12.21	-6.82	81.10	22.43	1314.28	42.01	1036.82	319.47	-525.38
		164	2.50	80.91	-34.88	-30.36	76.39	22.43	1034.39	168.94	909.36	293.97	-304.27
		40	2.23	3.04	-57.09	-47.04	-7.01	22.43	856.33	-316.33	798.80	-258.80	-253.28
133	2	137	5.04	13.08	2.86	2.95	12.98	-0.97	1435.17	464.63	471.05	1428.74	78.71
		165	2.27	28.51	6.00	6.05	28.46	-0.97	537.85	162.46	271.14	429.17	170.25
		166	2.68	26.84	-2.29	-2.26	26.80	-0.97	717.38	257.54	499.98	474.94	-229.58
		10	5.48	11.38	-5.41	-5.35	11.32	-0.97	1590.31	584.09	699.90	1474.51	-321.11
133	6	137	5.04	13.08	2.86	2.95	12.98	-0.97	1435.17	464.63	471.05	1428.74	78.71
		165	2.27	28.51	6.00	6.05	28.46	-0.97	537.85	162.46	271.14	429.17	170.25
		166	2.68	26.84	-2.29	-2.26	26.80	-0.97	717.38	257.54	499.98	474.94	-229.58
		10	5.48	11.38	-5.41	-5.35	11.32	-0.97	1590.31	584.09	699.90	1474.51	-321.11
134	2	10	3.61	41.78	0.40	0.68	41.49	3.43	550.11	-345.08	371.67	-166.64	-357.63
		166	4.43	29.17	-2.24	-1.86	28.79	3.43	1171.87	111.22	551.34	731.74	-522.60
		163	3.56	27.84	-8.58	-8.25	27.51	3.43	901.76	133.87	345.13	690.50	-342.92
		105	2.61	40.47	-5.97	-5.71	40.22	3.43	236.69	-279.11	165.46	-207.88	-177.95
134	6	10	3.61	41.78	0.40	0.68	41.49	3.43	550.11	-345.08	371.67	-166.64	-357.63
		166	4.43	29.17	-2.24	-1.86	28.79	3.43	1171.87	111.22	551.34	731.74	-522.60
		163	3.56	27.84	-8.58	-8.25	27.51	3.43	901.76	133.87	345.13	690.50	-342.92
		105	2.61	40.47	-5.97	-5.71	40.22	3.43	236.69	-279.11	165.46	-207.88	-177.95
135	2	59	1.37	21.17	2.60	4.72	19.05	-5.91	194.70	-71.11	-56.67	180.26	-60.25
		161	2.47	20.73	2.46	4.63	18.56	-5.91	562.58	12.97	18.65	556.89	55.60
		165	2.63	20.56	1.93	4.04	18.44	-5.91	718.51	204.57	308.27	614.81	206.25
		137	1.26	21.00	2.07	4.14	18.93	-5.91	326.01	145.12	232.94	238.18	90.41
135	6	59	1.37	21.17	2.60	4.72	19.05	-5.91	194.70	-71.11	-56.67	180.26	-60.25
		161	2.47	20.73	2.46	4.63	18.56	-5.91	562.58	12.97	18.65	556.89	55.60
		165	2.63	20.56	1.93	4.04	18.44	-5.91	718.51	204.57	308.27	614.81	206.25
		137	1.26	21.00	2.07	4.14	18.93	-5.91	326.01	145.12	232.94	238.18	90.41
136	2	103	0.78	18.96	-23.44	0.78	-5.26	20.98	290.57	67.39	268.79	89.16	66.23
		167	1.50	92.40	13.11	19.11	86.39	20.98	341.97	27.84	270.76	99.05	131.52
		168	1.89	77.35	-47.83	-44.21	73.73	20.98	485.81	79.87	433.99	131.69	135.47
		8	1.40	-9.61	-70.85	-62.54	-17.92	20.98	447.15	106.67	432.01	121.81	70.18
136	6	103	0.78	18.96	-23.44	0.78	-5.26	20.98	290.57	67.39	268.79	89.16	66.23
		167	1.50	92.40	13.11	19.11	86.39	20.98	341.97	27.84	270.76	99.05	131.52

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		168	1.89	77.35	-47.83	-44.21	73.73	20.98	485.81	79.87	433.99	131.69	135.47
		8	1.40	-9.61	-70.85	-62.54	-17.92	20.98	447.15	106.67	432.01	121.81	70.18
137	2	174	5.93	15.57	1.27	3.40	13.44	-5.09	1671.35	399.06	424.73	1645.68	178.91
		176	2.34	24.35	3.95	5.31	22.98	-5.09	574.21	22.69	179.15	417.75	248.62
		135	2.66	23.41	0.35	1.53	22.23	-5.09	650.59	155.45	353.42	452.61	-242.55
		5	6.25	14.44	-2.12	-0.37	12.69	-5.09	1764.22	515.33	599.01	1680.53	-312.26
137	6	174	5.93	15.57	1.27	3.40	13.44	-5.09	1671.35	399.06	424.73	1645.68	178.91
		176	2.34	24.35	3.95	5.31	22.98	-5.09	574.21	22.69	179.15	417.75	248.62
		135	2.66	23.41	0.35	1.53	22.23	-5.09	650.59	155.45	353.42	452.61	-242.55
		5	6.25	14.44	-2.12	-0.37	12.69	-5.09	1764.22	515.33	599.01	1680.53	-312.26
138	2	88	1.90	46.55	7.28	9.43	44.40	-8.93	135.23	-163.99	-118.54	89.78	-107.40
		136	2.65	30.81	2.85	6.07	27.59	-8.93	532.83	-35.44	-30.85	528.25	50.85
		167	2.57	30.98	3.36	6.64	27.70	-8.93	611.03	123.74	166.96	567.81	138.55
		103	1.50	46.69	7.83	10.00	44.52	-8.93	136.17	72.45	79.27	129.35	-19.70
138	6	88	1.90	46.55	7.28	9.43	44.40	-8.93	135.23	-163.99	-118.54	89.78	-107.40
		136	2.65	30.81	2.85	6.07	27.59	-8.93	532.83	-35.44	-30.85	528.25	50.85
		167	2.57	30.98	3.36	6.64	27.70	-8.93	611.03	123.74	166.96	567.81	138.55
		103	1.50	46.69	7.83	10.00	44.52	-8.93	136.17	72.45	79.27	129.35	-19.70
139	1	170	1.21	0.02	-0.02	-8.37e-03	0.01	-0.02	316.79	-13.28	125.89	177.62	162.99
		171	1.47	0.08	2.29e-03	5.72e-03	0.08	-0.02	447.08	171.34	178.37	440.04	43.47
		169	1.76	0.08	6.92e-04	4.07e-03	0.08	-0.02	426.82	-77.33	-45.73	395.22	122.20
		131	1.74	0.02	-0.02	-0.01	0.01	-0.02	285.19	-250.61	-98.21	132.80	241.72
139	4	170	0.86	0.02	-0.01	-5.88e-03	8.81e-03	-0.01	226.32	-6.85	89.74	129.74	114.86
		171	1.05	0.06	1.73e-03	4.16e-03	0.06	-0.01	319.72	122.12	126.80	315.04	30.05
		169	1.26	0.06	4.43e-04	2.83e-03	0.06	-0.01	304.99	-53.97	-32.22	283.24	85.64
		131	1.23	0.01	-0.01	-7.20e-03	8.55e-03	-0.01	204.18	-175.52	-69.28	97.94	170.45
140	1	172	1.82	0.11	9.97e-03	0.10	0.02	-0.03	555.65	212.29	554.47	213.47	20.08
		39	1.95	0.10	-0.04	0.09	-0.04	-0.03	520.15	3.04	513.68	9.52	57.49
		173	2.15	0.05	-0.05	0.04	-0.05	-0.03	583.85	23.52	583.82	23.55	-3.69
		171	2.07	0.07	-4.22e-03	0.06	0.01	-0.03	628.82	223.29	624.61	227.50	-41.11
140	4	172	1.29	0.08	7.39e-03	0.07	0.01	-0.02	393.66	151.20	392.89	151.97	13.64
		39	1.38	0.07	-0.03	0.06	-0.03	-0.02	368.42	2.89	363.96	7.35	40.13
		173	1.52	0.04	-0.04	0.03	-0.03	-0.02	413.66	17.25	413.63	17.28	-3.26
		171	1.47	0.05	-2.78e-03	0.04	7.59e-03	-0.02	445.67	158.79	442.55	161.91	-29.75
141	2	171	1.37	16.69	1.10	7.96	9.82	-7.74	363.15	170.77	361.76	172.15	16.27
		173	4.32	9.15	-9.34	4.97	-5.16	-7.74	1281.24	582.40	583.38	1280.25	26.24
		11	5.06	6.29	-10.80	1.37	-5.88	-7.74	1437.90	448.16	602.07	1283.99	358.67
		169	2.85	14.83	-1.36	4.36	9.10	-7.74	641.56	-85.22	380.45	175.89	348.70
141	6	171	1.37	16.69	1.10	7.96	9.82	-7.74	363.15	170.77	361.76	172.15	16.27
		173	4.32	9.15	-9.34	4.97	-5.16	-7.74	1281.24	582.40	583.38	1280.25	26.24
		11	5.06	6.29	-10.80	1.37	-5.88	-7.74	1437.90	448.16	602.07	1283.99	358.67
		169	2.85	14.83	-1.36	4.36	9.10	-7.74	641.56	-85.22	380.45	175.89	348.70
142	2	132	2.28	11.49	0.60	1.22	10.87	-2.53	573.99	34.19	83.20	524.98	155.10
		131	1.37	12.30	0.80	1.39	11.71	-2.53	300.86	-54.10	22.97	223.79	146.35
		174	1.10	12.31	0.85	1.44	11.72	-2.53	219.34	-2.21	-1.72	218.86	10.37
		175	2.11	11.51	0.65	1.27	10.88	-2.53	520.83	57.72	58.51	520.04	19.12
142	6	132	2.28	11.49	0.60	1.22	10.87	-2.53	573.99	34.19	83.20	524.98	155.10
		131	1.37	12.30	0.80	1.39	11.71	-2.53	300.86	-54.10	22.97	223.79	146.35
		174	1.10	12.31	0.85	1.44	11.72	-2.53	219.34	-2.21	-1.72	218.86	10.37
		175	2.11	11.51	0.65	1.27	10.88	-2.53	520.83	57.72	58.51	520.04	19.12
143	1	169	4.00	0.05	-0.08	-0.06	0.03	-0.04	1226.16	505.11	888.12	843.15	359.83
		11	4.04	0.28	-0.02	-0.02	0.27	-0.04	1215.38	834.66	941.25	1108.78	170.94
		158	3.76	0.30	0.05	0.06	0.29	-0.04	1130.50	352.87	469.03	1014.34	277.19
		176	3.89	0.07	-0.02	7.34e-03	0.05	-0.04	1077.20	87.41	415.90	748.71	466.08
143	6	169	3.85	18.38	-1.35	4.96	12.07	-9.20	997.78	60.85	464.16	594.46	463.91
		11	3.14	28.52	3.42	7.44	24.50	-9.20	533.41	-268.10	331.95	-66.63	347.69
		158	1.44	27.21	-0.24	3.30	23.67	-9.20	75.93	-159.28	41.39	-124.74	83.25
		176	2.27	16.61	-4.55	0.82	11.25	-9.20	624.58	85.38	173.61	536.35	199.47
144	1	131	2.18	0.02	-0.01	-8.18e-03	0.02	-9.26e-03	467.92	-181.66	-56.27	342.53	256.38
		169	3.48	0.05	-5.26e-03	-3.49e-03	0.04	-9.26e-03	836.36	-160.43	8.68	667.26	374.12
		176	4.04	0.05	0.02	0.03	0.05	-9.26e-03	1061.19	-32.03	303.03	726.13	504.01
		174	2.83	0.03	0.01	0.02	0.03	-9.26e-03	714.55	-75.07	238.08	401.40	386.27
144	4	131	1.56	0.02	-7.65e-03	-5.62e-03	0.02	-6.98e-03	338.88	-124.50	-38.33	252.70	180.30
		169	2.48	0.03	-3.72e-03	-2.38e-03	0.03	-6.98e-03	600.16	-110.03	7.63	482.50	264.04
		176	2.88	0.04	0.02	0.02	0.04	-6.98e-03	758.40	-17.04	216.99	524.37	355.96
		174	2.01	0.03	0.01	0.02	0.02	-6.98e-03	511.94	-46.33	171.03	294.57	272.21
145	1	2	0.49	-6.03e-03	-0.01	-7.15e-03	-0.01	2.27e-03	57.86	-91.68	-21.89	-11.93	74.61
		7	0.39	0.01	-3.42e-03	-3.04e-03	9.89e-03	2.27e-03	60.87	-58.84	-15.91	17.95	57.41
		170	0.49	0.01	4.22e-03	4.93e-03	0.01	2.27e-03	53.69	-95.33	-52.31	10.67	67.53
		177	0.58	1.31e-03	-9.57e-03	8.17e-04	-9.07e-03	2.27e-03	48.20	-125.69	-58.28	-19.21	84.72
145	6	2	0.46	0.83	-0.40	-0.39	0.82	0.08	47.33	-89.60	-24.81	-17.46	68.37
		7	0.36	2.10	-0.14	-0.14	2.10	0.08	41.47	-65.83	-21.82	-2.54	52.78
		170	0.43	2.22	0.47	0.47	2.22	0.08	30.20	-94.15	-54.81	-9.14	57.83
		177	0.52	0.95	0.21	0.22	0.95	0.08	34.40	-116.26	-57.80	-24.06	73.42

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
146	2	173	4.35	8.30	-4.49	8.30	-4.49	-0.09	1295.80	530.26	552.07	1273.99	127.36
		178	1.58	10.76	7.79	10.76	7.80	-0.09	400.94	63.95	325.21	139.68	140.66
		160	1.82	6.98	6.56	6.59	6.96	-0.09	471.93	22.89	350.15	144.67	-199.63
		11	4.50	4.13	-5.33	4.13	-5.32	-0.09	1338.52	517.47	577.02	1278.98	-212.94
146	6	173	4.35	8.30	-4.49	8.30	-4.49	-0.09	1295.80	530.26	552.07	1273.99	127.36
		178	1.58	10.76	7.79	10.76	7.80	-0.09	400.94	63.95	325.21	139.68	140.66
		160	1.82	6.98	6.56	6.59	6.96	-0.09	471.93	22.89	350.15	144.67	-199.63
		11	4.50	4.13	-5.33	4.13	-5.32	-0.09	1338.52	517.47	577.02	1278.98	-212.94
147	1	179	1.11	0.03	-8.66e-03	0.02	2.38e-03	0.02	256.95	-66.01	52.10	138.84	155.54
		60	0.75	0.03	-2.75e-03	0.02	0.01	0.02	185.10	-28.57	46.37	110.16	101.96
		180	0.77	0.05	8.60e-03	0.04	0.02	0.02	135.94	-99.96	-54.10	90.07	93.36
		178	1.11	0.05	1.33e-03	0.04	7.76e-03	0.02	204.23	-133.84	-48.36	118.74	146.94
147	4	179	0.78	0.02	-5.92e-03	0.01	2.01e-03	0.01	181.67	-46.41	36.44	98.82	109.69
		60	0.53	0.02	-1.71e-03	0.01	7.97e-03	0.01	130.81	-19.98	32.37	78.46	71.79
		180	0.54	0.04	6.45e-03	0.03	0.01	0.01	96.22	-70.67	-38.70	64.25	65.68
		178	0.78	0.03	1.24e-03	0.03	5.84e-03	0.01	144.50	-94.53	-34.63	84.60	103.59
148	1	178	2.12	0.07	0.04	0.05	0.06	0.02	520.33	-80.23	13.26	426.84	217.72
		180	1.24	0.05	4.66e-03	0.04	0.01	0.02	299.94	-55.10	-19.28	264.12	106.92
		121	1.51	0.08	0.01	0.07	0.02	0.02	229.96	-234.42	-227.03	222.58	58.11
		160	2.21	0.09	0.05	0.08	0.06	0.02	430.91	-240.11	-194.49	385.29	168.91
148	4	178	1.50	0.05	0.03	0.04	0.04	0.01	370.06	-55.82	9.42	304.82	153.39
		180	0.88	0.03	4.41e-03	0.03	8.88e-03	0.01	214.03	-38.47	-13.70	189.26	75.11
		121	1.07	0.05	0.01	0.05	0.01	0.01	164.93	-165.49	-160.46	159.90	40.44
		160	1.57	0.06	0.04	0.06	0.05	0.01	307.17	-169.06	-137.35	275.47	118.72
149	1	180	1.24	0.04	8.38e-03	0.04	9.50e-03	-5.54e-03	244.01	-130.45	-128.68	242.24	25.66
		181	1.62	0.06	0.04	0.04	0.05	-5.54e-03	363.55	-114.19	-106.05	355.41	-61.83
		183	1.94	0.07	0.05	0.06	0.06	-5.54e-03	323.92	-271.39	-270.08	322.61	-27.88
		121	1.68	0.06	0.01	0.06	0.01	-5.54e-03	216.42	-299.70	-292.72	209.44	59.61
149	4	180	0.88	0.03	6.90e-03	0.03	7.91e-03	-4.35e-03	174.88	-92.62	-91.44	173.71	17.69
		181	1.16	0.04	0.03	0.03	0.04	-4.35e-03	259.66	-81.20	-75.41	253.87	-44.04
		183	1.38	0.05	0.04	0.05	0.04	-4.35e-03	231.67	-192.10	-191.15	230.72	-20.00
		121	1.20	0.04	0.01	0.04	0.01	-4.35e-03	155.36	-211.99	-207.18	150.56	41.73
150	1	182	0.75	0.08	4.01e-03	0.08	0.01	-0.02	230.25	131.81	183.86	178.20	-49.13
		41	0.57	0.07	-0.04	0.07	-0.03	-0.02	146.37	-11.85	145.94	-11.41	-8.29
		184	0.93	0.06	-0.04	0.05	-0.03	-0.02	240.48	-14.05	222.53	3.90	-65.17
		181	1.12	0.07	-1.09e-04	0.06	8.08e-03	-0.02	338.16	115.81	260.45	193.52	-106.02
150	6	182	0.98	23.44	2.61	23.21	2.84	-2.16	155.02	100.88	136.57	119.33	-25.66
		41	0.96	22.79	-0.47	22.59	-0.27	-2.16	131.06	60.96	125.93	66.10	-18.27
		184	0.89	15.92	-1.92	15.66	-1.66	-2.16	153.61	55.03	139.77	68.87	-34.24
		181	0.92	16.59	1.14	16.28	1.45	-2.16	180.23	92.29	150.42	122.10	-41.63
151	2	181	1.00	20.06	5.68	17.61	8.13	-5.40	165.86	44.80	140.11	70.55	-49.54
		184	4.04	16.30	-6.58	14.94	-5.23	-5.40	1147.53	354.17	355.28	1146.42	-29.72
		15	4.55	10.23	-8.26	8.49	-6.52	-5.40	1253.58	292.72	392.45	1153.85	293.05
		183	2.04	14.81	3.18	11.16	6.84	-5.40	405.33	-150.07	177.27	77.98	273.23
151	6	181	1.00	20.06	5.68	17.61	8.13	-5.40	165.86	44.80	140.11	70.55	-49.54
		184	4.04	16.30	-6.58	14.94	-5.23	-5.40	1147.53	354.17	355.28	1146.42	-29.72
		15	4.55	10.23	-8.26	8.49	-6.52	-5.40	1253.58	292.72	392.45	1153.85	293.05
		183	2.04	14.81	3.18	11.16	6.84	-5.40	405.33	-150.07	177.27	77.98	273.23
152	2	184	4.06	16.34	-5.48	15.90	-5.04	3.07	1151.70	341.00	347.79	1144.92	73.84
		185	1.13	19.39	7.34	18.55	8.18	3.07	199.12	-8.30	130.81	60.02	97.48
		187	1.65	13.05	5.28	11.55	6.78	3.07	356.10	-112.09	175.13	68.88	-227.99
		15	4.38	9.49	-7.03	8.90	-6.44	3.07	1229.41	316.49	392.11	1153.78	-251.63
152	6	184	4.06	16.34	-5.48	15.90	-5.04	3.07	1151.70	341.00	347.79	1144.92	73.84
		185	1.13	19.39	7.34	18.55	8.18	3.07	199.12	-8.30	130.81	60.02	97.48
		187	1.65	13.05	5.28	11.55	6.78	3.07	356.10	-112.09	175.13	68.88	-227.99
		15	4.38	9.49	-7.03	8.90	-6.44	3.07	1229.41	316.49	392.11	1153.78	-251.63
153	1	186	1.11	0.02	-0.02	1.67e-03	-2.06e-03	0.02	164.89	-175.62	-126.77	116.04	119.36
		63	0.85	0.02	-0.01	3.90e-03	9.10e-03	0.02	96.64	-162.64	-135.98	69.98	78.74
		188	1.01	0.04	6.33e-04	0.03	0.01	0.02	69.71	-227.10	-212.14	54.75	64.93
		185	1.22	0.03	-7.94e-03	0.02	2.35e-03	0.02	133.88	-236.00	-202.93	100.81	105.54
153	6	186	1.09	20.72	1.87	20.67	1.92	0.96	81.00	-124.08	-111.85	68.77	48.56
		63	0.99	20.87	2.61	20.82	2.66	0.96	11.74	-138.99	-125.88	-1.37	42.47
		188	0.89	15.71	1.56	15.64	1.63	0.96	-0.30	-140.66	-137.31	-3.65	21.43
		185	0.99	15.56	0.82	15.50	0.89	0.96	70.39	-127.19	-123.28	66.48	27.52
154	1	185	1.91	0.06	0.02	0.03	0.04	0.02	376.04	-202.36	-156.96	330.64	155.56
		188	1.30	0.04	-6.42e-03	0.02	5.38e-03	0.02	199.97	-200.37	-185.98	185.58	74.54
		122	1.65	0.06	3.69e-03	0.05	0.01	0.02	157.14	-339.83	-337.88	155.19	31.02
		187	2.11	0.08	0.04	0.06	0.05	0.02	320.21	-328.82	-308.87	300.26	112.04
154	4	185	1.36	0.04	0.01	0.02	0.03	0.01	268.45	-143.66	-111.46	236.25	110.61
		188	0.93	0.03	-3.40e-03	0.02	4.85e-03	0.01	143.57	-142.42	-132.06	133.21	53.43
		122	1.17	0.04	3.71e-03	0.04	8.88e-03	0.01	113.21	-240.72	-239.28	111.77	22.52
		187	1.50	0.05	0.03	0.04	0.04	0.01	228.99	-232.86	-218.67	214.80	79.70
155	1	188	1.03	0.02	2.10e-03	0.02	3.63e-03	4.55e-03	200.78	-113.09	-112.56	200.26	12.82
		189	1.39	0.04	0.02	0.02	0.04	4.55e-03	309.93	-102.08	-92.54	300.39	-61.97

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		191	1.66	0.06	0.04	0.06	0.04	4.55e-03	274.35	-234.80	-232.78	272.34	-31.94
		122	1.42	0.05	9.71e-03	0.05	0.01	4.55e-03	176.49	-257.09	-252.81	172.21	42.86
155	4	188	0.74	0.01	2.74e-03	0.01	3.65e-03	2.95e-03	144.16	-79.95	-79.51	143.72	9.92
		189	0.99	0.03	0.02	0.02	0.03	2.95e-03	220.73	-71.77	-65.39	214.34	-42.73
		191	1.17	0.04	0.03	0.04	0.03	2.95e-03	195.89	-165.39	-164.11	194.60	-21.55
		122	1.01	0.04	8.00e-03	0.04	8.32e-03	2.95e-03	127.15	-181.40	-178.23	123.98	31.10
156	1	190	1.30	0.03	-1.63e-03	0.02	7.16e-03	-0.01	398.39	179.50	393.40	184.49	-32.65
		43	1.38	0.02	-0.03	0.02	-0.03	-0.01	349.97	-33.17	349.89	-33.09	5.50
		192	1.66	0.02	-0.03	0.02	-0.03	-0.01	429.38	-26.76	421.41	-18.79	-59.78
		189	1.64	0.03	-1.66e-03	0.02	7.14e-03	-0.01	497.07	166.64	464.92	198.79	-97.92
156	6	190	1.54	23.57	2.55	23.51	2.61	-1.10	305.50	125.06	304.65	125.91	-12.33
		43	1.58	23.05	4.50e-03	23.00	0.06	-1.10	290.02	51.36	289.79	51.59	-7.46
		192	1.46	16.06	-1.41	15.99	-1.34	-1.10	302.48	49.87	298.93	53.42	-29.75
		189	1.43	16.58	1.13	16.51	1.21	-1.10	320.03	121.50	313.79	127.74	-34.63
157	2	189	1.46	18.56	7.47	17.89	8.14	-2.65	308.35	59.66	301.54	66.47	-40.59
		192	3.73	15.66	-5.08	15.32	-4.73	-2.65	1102.76	507.25	508.54	1101.47	-27.70
		19	4.22	8.99	-6.55	8.53	-6.09	-2.65	1222.29	416.73	532.71	1106.30	282.80
		191	2.11	12.36	5.53	11.10	6.78	-2.65	496.89	-99.87	325.71	71.31	269.91
157	6	189	1.46	18.56	7.47	17.89	8.14	-2.65	308.35	59.66	301.54	66.47	-40.59
		192	3.73	15.66	-5.08	15.32	-4.73	-2.65	1102.76	507.25	508.54	1101.47	-27.70
		19	4.22	8.99	-6.55	8.53	-6.09	-2.65	1222.29	416.73	532.71	1106.30	282.80
		191	2.11	12.36	5.53	11.10	6.78	-2.65	496.89	-99.87	325.71	71.31	269.91
158	2	192	3.80	15.54	-6.42	14.10	-4.98	5.44	1145.13	669.79	679.30	1135.62	66.54
		193	2.13	19.43	5.67	16.76	8.34	5.44	480.49	38.57	463.32	55.74	85.39
		195	2.39	14.23	2.91	10.13	7.01	5.44	603.86	-42.38	498.67	62.81	-238.57
		19	4.30	9.35	-8.19	7.46	-6.30	5.44	1263.44	593.89	714.64	1142.69	-257.42
158	6	192	3.80	15.54	-6.42	14.10	-4.98	5.44	1145.13	669.79	679.30	1135.62	66.54
		193	2.13	19.43	5.67	16.76	8.34	5.44	480.49	38.57	463.32	55.74	85.39
		195	2.39	14.23	2.91	10.13	7.01	5.44	603.86	-42.38	498.67	62.81	-238.57
		19	4.30	9.35	-8.19	7.46	-6.30	5.44	1263.44	593.89	714.64	1142.69	-257.42
159	1	194	2.24	3.17e-03	-0.08	-0.08	-6.12e-03	0.03	649.93	128.48	625.45	152.97	110.32
		66	2.19	-2.05e-04	-0.09	-0.08	-9.82e-03	0.03	617.28	77.11	611.44	82.95	55.85
		196	1.82	0.01	-0.05	-0.04	-2.46e-03	0.03	512.01	59.82	509.31	62.52	34.84
		193	1.86	0.01	-0.05	-0.04	1.24e-03	0.03	542.76	113.10	523.31	132.54	89.31
159	6	194	1.90	16.02	1.37	15.79	1.60	1.80	442.78	92.03	438.15	96.67	40.04
		66	1.94	16.26	2.49	16.02	2.73	1.80	422.05	8.47	420.77	9.76	23.00
		196	1.73	12.29	1.61	11.98	1.92	1.80	388.84	3.34	388.82	3.37	-3.07
		193	1.68	12.04	0.50	11.75	0.79	1.80	406.81	89.66	406.20	90.28	13.97
160	1	193	2.07	0.05	-0.04	-0.03	0.04	0.03	636.14	306.36	571.09	371.42	131.23
		196	1.84	-5.91e-03	-0.06	-0.04	-0.03	0.03	564.85	265.73	552.43	278.15	59.66
		123	1.38	0.02	-0.04	9.74e-04	-0.02	0.03	424.06	245.50	418.25	251.31	31.68
		195	1.64	0.06	-4.62e-04	0.01	0.05	0.03	503.84	277.64	436.91	344.58	103.25
160	6	193	1.70	14.20	6.53	13.12	7.61	2.67	398.93	40.10	396.62	42.40	28.66
		196	1.66	13.37	3.92	12.55	4.75	2.67	415.17	132.20	414.68	132.69	11.78
		123	1.52	10.64	3.05	9.55	4.15	2.67	388.79	120.61	383.03	126.36	38.87
		195	1.57	11.65	5.48	10.12	7.01	2.67	374.17	26.88	364.97	36.07	55.75
161	1	196	3.09	3.73e-03	-0.06	-0.03	-0.02	0.03	940.99	350.68	936.67	355.00	-50.28
		197	3.65	-0.02	-0.08	-0.04	-0.06	0.03	1123.22	539.60	998.53	664.29	-239.22
		199	2.51	0.07	-0.05	0.06	-0.04	0.03	767.48	470.24	644.28	593.44	-146.43
		123	1.91	0.08	-0.02	0.07	-3.03e-03	0.03	588.36	278.21	582.42	284.15	42.50
161	6	196	2.55	11.21	3.59	10.47	4.33	2.27	692.38	186.60	691.02	187.96	-26.17
		197	2.65	12.26	6.55	11.13	7.67	2.27	738.09	221.87	704.52	255.44	-127.29
		199	1.96	10.43	5.61	8.83	7.21	2.27	549.44	183.00	514.92	217.52	-107.04
		123	1.85	9.14	2.90	8.16	3.87	2.27	501.53	149.94	501.43	150.04	-5.92
162	1	198	5.64	6.04e-03	-0.21	-0.21	5.70e-03	8.49e-03	1631.40	306.29	1598.85	338.85	-205.12
		45	5.78	-0.02	-0.21	-0.21	-0.02	8.49e-03	1546.69	11.94	1535.68	22.96	-129.57
		200	6.37	-0.01	-0.19	-0.19	-0.01	8.49e-03	1707.72	20.90	1677.33	51.29	-224.34
		197	6.27	0.01	-0.19	-0.19	9.70e-03	8.49e-03	1803.14	304.55	1740.51	367.18	-299.89
162	6	198	4.43	13.66	2.11	13.66	2.11	-0.19	1189.54	215.58	1168.69	236.42	-140.94
		45	4.50	13.25	0.05	13.25	0.06	-0.19	1150.60	81.36	1139.84	92.13	-106.75
		200	4.66	8.66	-0.86	8.66	-0.86	-0.19	1224.06	84.84	1203.94	104.95	-150.04
		197	4.61	9.07	1.19	9.07	1.19	-0.19	1266.17	215.87	1232.80	249.24	-184.23
163	1	197	6.47	0.01	-0.31	-0.21	-0.09	0.15	1962.71	701.87	1833.33	831.25	-382.61
		200	7.12	5.54e-03	-0.32	-0.21	-0.10	0.15	2135.20	1492.14	1993.79	1633.56	-266.34
		23	7.51	0.49	-0.02	0.44	0.03	0.15	2213.01	1675.93	2211.78	1677.16	-25.65
		199	6.76	0.49	-0.01	0.44	0.04	0.15	2068.20	857.97	2051.32	874.85	-141.92
163	6	197	4.66	10.36	7.49	10.33	7.51	-0.26	1313.69	308.17	1256.10	365.76	-233.64
		200	6.26	7.90	-4.70	7.89	-4.70	-0.26	1833.04	1415.10	1527.15	1721.00	-185.13
		23	6.51	3.92	-5.50	3.91	-5.49	-0.26	1908.21	1449.08	1618.10	1739.19	221.44
		199	4.75	6.86	6.22	6.36	6.72	-0.26	1377.16	353.84	1347.05	383.95	172.93
164	1	200	5.61	0.04	-0.48	-0.32	-0.12	0.24	1583.07	1384.75	1444.18	1523.64	90.86
		201	4.69	0.28	-0.37	-0.26	0.16	0.24	1443.27	764.15	1317.45	889.97	263.85
		203	5.39	0.09	-0.97	-0.91	0.03	0.24	1649.64	947.02	1641.81	954.85	73.75
		23	6.37	-0.18	-1.04	-0.97	-0.25	0.24	1812.51	1544.54	1768.54	1588.51	-99.24

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
164	6	200	5.51	8.88	-9.43	4.77	-5.32	7.64	1639.74	1104.64	1107.35	1637.03	37.94
		201	3.21	15.84	0.52	7.59	8.77	7.64	902.27	389.63	865.27	426.64	132.67
		203	3.81	13.54	-2.44	3.20	7.89	7.64	1123.23	381.83	1042.90	462.16	-230.45
		23	6.28	5.41	-11.22	0.38	-6.20	7.64	1857.32	1100.22	1284.98	1672.56	-325.18
165	1	202	2.03	-8.57e-03	-0.41	-0.41	-0.02	0.06	120.98	-468.04	-466.68	119.62	28.29
		69	2.18	0.05	-0.40	-0.39	0.04	0.06	199.76	-453.39	-451.11	197.48	-38.51
		204	2.56	0.03	-0.51	-0.50	0.02	0.06	172.74	-576.66	-576.35	172.43	-15.15
		201	2.45	-0.03	-0.52	-0.51	-0.04	0.06	98.43	-595.79	-591.93	94.57	51.65
165	6	202	1.63	3.84	-0.86	1.71	1.27	2.34	83.59	-376.64	-373.58	80.54	-37.36
		69	1.72	4.50	-0.20	1.93	2.37	2.34	121.59	-376.10	-367.16	112.65	-66.10
		204	1.85	4.11	-0.67	1.21	2.23	2.34	107.90	-427.09	-421.06	101.87	-56.47
		201	1.78	3.40	-1.28	0.99	1.12	2.34	71.30	-429.02	-427.48	69.76	-27.73
166	1	201	3.45	0.13	-0.48	-0.48	0.12	0.06	539.51	-519.95	-505.77	525.33	121.74
		204	2.73	0.04	-0.50	-0.50	0.03	0.06	233.40	-580.06	-566.81	220.15	-102.96
		124	4.19	0.03	-0.54	-0.53	0.02	0.06	168.60	-1020.83	-988.12	135.89	-194.51
		203	4.55	0.12	-0.52	-0.52	0.11	0.06	441.73	-927.75	-927.09	441.07	30.19
166	4	201	2.47	0.09	-0.34	-0.34	0.09	0.04	386.87	-372.16	-361.25	375.96	90.35
		204	1.95	0.03	-0.35	-0.35	0.02	0.04	168.29	-413.05	-404.49	159.74	-69.99
		124	2.99	0.02	-0.38	-0.38	0.02	0.04	121.61	-727.13	-705.13	99.61	-134.86
		203	3.26	0.08	-0.37	-0.37	0.08	0.04	316.50	-662.55	-661.89	315.83	25.48
167	1	204	7.09	0.03	-0.49	-0.49	0.03	0.02	-29.78	-1903.25	-1888.79	-44.24	-163.98
		205	6.99	5.26e-03	-0.49	-0.49	4.28e-03	0.02	-102.77	-1910.29	-1902.13	-110.94	-121.23
		207	6.74	0.01	-0.46	-0.46	0.01	0.02	-83.44	-1833.45	-1821.98	-94.91	-141.24
		124	6.85	0.04	-0.46	-0.46	0.04	0.02	-9.40	-1827.45	-1808.64	-28.21	-183.99
167	6	204	5.18	5.89	-1.17	-0.09	4.82	2.53	-50.58	-1395.76	-1376.72	-69.62	-158.88
		205	5.09	5.92	-1.16	-0.09	4.85	2.53	-108.89	-1396.34	-1386.54	-118.70	-111.91
		207	4.79	6.10	-0.68	0.46	4.96	2.53	-87.84	-1311.72	-1298.47	-101.08	-126.63
		124	4.89	6.07	-0.69	0.45	4.93	2.53	-28.10	-1312.56	-1288.66	-52.00	-173.60
168	1	206	9.24	-8.24e-03	-0.57	-0.57	-8.24e-03	2.17e-03	-97.43	-2507.42	-2505.24	-99.61	-72.53
		47	9.27	-6.41e-03	-0.57	-0.57	-6.42e-03	2.17e-03	-64.15	-2499.02	-2498.29	-64.88	-42.22
		208	9.07	7.43e-03	-0.50	-0.50	7.43e-03	2.17e-03	-53.10	-2441.89	-2441.47	-53.52	-31.80
		205	9.04	5.61e-03	-0.50	-0.50	5.60e-03	2.17e-03	-86.61	-2450.05	-2448.41	-88.25	-62.11
168	6	206	6.79	1.01	-5.14	-5.12	0.98	0.35	-78.09	-1810.54	-1808.21	-80.42	-63.52
		47	6.80	1.26	-5.08	-5.06	1.24	0.35	-56.92	-1804.39	-1803.65	-57.66	-35.97
		208	6.56	1.84	-2.23	-2.20	1.81	0.35	-46.82	-1752.48	-1751.98	-47.32	-29.14
		205	6.54	1.59	-2.28	-2.25	1.56	0.35	-68.18	-1758.44	-1756.53	-70.09	-56.69
169	1	205	8.92	3.40e-03	-0.50	-0.50	3.33e-03	5.89e-03	-221.82	-2479.78	-2475.90	-225.70	-93.45
		208	8.91	-4.83e-03	-0.50	-0.50	-4.90e-03	5.89e-03	-219.61	-2475.22	-2474.78	-220.06	-31.76
		27	8.51	5.41e-03	-0.45	-0.45	5.33e-03	5.89e-03	-196.51	-2359.53	-2359.11	-196.92	-30.07
		207	8.53	0.01	-0.45	-0.45	0.01	5.89e-03	-198.67	-2364.14	-2360.24	-202.56	-91.75
169	6	205	6.45	4.70	-1.81	-1.66	4.54	0.99	-193.64	-1786.24	-1782.08	-197.80	-81.33
		208	6.45	4.71	-1.81	-1.65	4.56	0.99	-180.12	-1779.19	-1778.65	-180.66	-29.38
		27	6.09	4.98	-0.62	-0.44	4.80	0.99	-160.80	-1681.65	-1681.26	-161.18	-24.24
		207	6.09	4.97	-0.62	-0.44	4.78	0.99	-174.48	-1688.53	-1684.69	-178.33	-76.18
170	1	208	8.91	-5.08e-03	-0.50	-0.50	-5.15e-03	-6.13e-03	-219.60	-2475.22	-2474.76	-220.05	32.13
		209	8.92	3.53e-03	-0.50	-0.50	3.45e-03	-6.13e-03	-221.91	-2479.82	-2475.91	-225.82	93.84
		211	8.53	0.01	-0.45	-0.45	0.01	-6.13e-03	-198.76	-2364.14	-2360.21	-202.68	92.11
		27	8.51	5.16e-03	-0.45	-0.45	5.08e-03	-6.13e-03	-196.49	-2359.49	-2359.06	-196.91	30.40
170	6	208	6.46	4.53	-1.94	-1.91	4.50	-0.43	-180.20	-1779.22	-1778.74	-180.68	27.58
		209	6.46	4.60	-1.93	-1.90	4.57	-0.43	-193.59	-1786.10	-1782.12	-197.57	79.50
		211	6.10	4.86	-0.65	-0.61	4.83	-0.43	-174.43	-1688.43	-1684.76	-178.10	74.44
		27	6.09	4.80	-0.66	-0.63	4.76	-0.43	-160.87	-1681.71	-1681.38	-161.21	22.51
171	1	210	7.05	-2.30e-03	-0.54	-0.54	-2.77e-03	-0.02	39.97	-1857.38	-1849.00	31.59	125.80
		72	6.92	0.02	-0.54	-0.54	0.02	-0.02	-79.91	-1879.72	-1872.70	-86.93	112.14
		212	6.98	0.03	-0.49	-0.49	0.03	-0.02	-88.81	-1901.56	-1898.32	-92.05	76.59
		209	7.12	6.77e-03	-0.50	-0.50	6.28e-03	-0.02	30.74	-1878.89	-1874.61	26.47	90.25
171	6	210	5.24	1.36	-4.36	-4.26	1.27	-0.73	21.68	-1356.38	-1346.61	11.92	115.59
		72	5.13	1.44	-4.34	-4.25	1.35	-0.73	-77.84	-1375.39	-1366.37	-86.86	107.86
		212	5.10	2.06	-1.58	-1.42	1.91	-0.73	-85.04	-1385.60	-1380.88	-89.77	78.22
		209	5.21	1.99	-1.59	-1.44	1.83	-0.73	14.39	-1366.49	-1361.12	9.01	85.96
172	1	209	6.99	4.88e-03	-0.50	-0.50	3.91e-03	-0.02	-102.83	-1910.35	-1902.12	-111.06	121.69
		212	7.09	0.03	-0.49	-0.49	0.03	-0.02	-30.02	-1903.38	-1888.82	-44.58	164.50
		125	6.85	0.04	-0.46	-0.46	0.04	-0.02	-9.61	-1827.47	-1808.56	-28.53	184.44
		211	6.74	0.01	-0.47	-0.47	0.01	-0.02	-83.47	-1833.39	-1821.85	-95.01	141.63
172	6	209	5.11	5.40	-1.48	-0.85	4.78	-1.98	-108.98	-1396.11	-1386.62	-118.47	110.12
		212	5.20	5.44	-1.47	-0.84	4.82	-1.98	-51.05	-1395.45	-1376.85	-69.65	157.02
		125	4.91	5.65	-0.76	-0.08	4.97	-1.98	-28.68	-1312.31	-1288.93	-52.06	171.66
		211	4.80	5.62	-0.77	-0.09	4.93	-1.98	-88.02	-1311.55	-1298.69	-100.88	124.77
173	1	212	2.73	0.04	-0.51	-0.50	0.03	-0.06	233.19	-580.46	-567.05	219.78	103.61
		213	3.45	0.13	-0.49	-0.49	0.12	-0.06	538.51	-520.06	-506.10	524.54	-120.79
		215	4.55	0.12	-0.53	-0.52	0.11	-0.06	441.02	-927.47	-926.84	440.39	-29.36
		125	4.19	0.03	-0.55	-0.54	0.02	-0.06	168.52	-1020.70	-987.80	135.63	195.04
173	4	212	1.95	0.03	-0.36	-0.36	0.02	-0.04	168.14	-413.34	-404.67	159.47	70.47
		213	2.47	0.09	-0.35	-0.34	0.09	-0.04	386.14	-372.23	-361.48	375.39	-89.65

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		215	3.25	0.08	-0.37	-0.37	0.08	-0.04	315.98	-662.34	-661.71	315.35	-24.87
		125	2.99	0.02	-0.39	-0.38	0.02	-0.04	121.56	-727.03	-704.89	99.42	135.25
174	1	214	3.67	0.02	-0.29	-0.28	8.89e-03	-0.05	1118.92	434.01	1116.84	436.08	-37.63
		49	3.97	-0.02	-0.30	-0.29	-0.03	-0.05	1013.80	-82.12	1013.30	-81.62	23.27
		216	4.43	-0.03	-0.32	-0.31	-0.04	-0.05	1142.00	-73.31	1127.48	-58.79	-132.04
		213	4.24	0.01	-0.31	-0.30	4.43e-03	-0.05	1276.55	413.39	1231.02	458.92	-192.94
174	4	214	2.62	0.01	-0.20	-0.20	6.38e-03	-0.03	798.32	309.48	796.57	311.24	-29.24
		49	2.83	-0.02	-0.21	-0.20	-0.02	-0.03	722.97	-58.27	722.72	-58.01	14.06
		216	3.16	-0.02	-0.22	-0.22	-0.02	-0.03	814.82	-52.70	803.90	-41.78	-96.71
		213	3.03	7.48e-03	-0.22	-0.21	3.06e-03	-0.03	911.33	293.90	877.75	327.47	-140.01
175	1	213	4.69	0.27	-0.38	-0.27	0.16	-0.24	1441.93	764.32	1317.07	889.18	-262.71
		216	5.60	0.04	-0.49	-0.33	-0.12	-0.24	1581.14	1384.73	1443.68	1522.19	-90.02
		13	6.37	-0.18	-1.04	-0.97	-0.25	-0.24	1811.84	1542.58	1767.47	1586.95	99.89
		215	5.39	0.09	-0.97	-0.91	0.03	-0.24	1648.50	946.31	1640.87	953.94	-72.80
175	6	213	3.17	14.41	6.34e-03	5.83	8.59	-7.07	903.79	391.23	866.08	428.94	-133.81
		216	5.48	7.12	-9.27	3.07	-5.21	-7.07	1631.46	1102.59	1105.92	1628.13	-41.81
		13	6.23	4.22	-10.87	-0.69	-5.97	-7.07	1842.01	1099.05	1278.42	1662.63	317.95
		215	3.79	12.59	-2.68	2.07	7.84	-7.07	1116.73	385.29	1038.59	463.44	225.95
176	1	216	7.12	-2.83e-03	-0.32	-0.23	-0.10	-0.15	2136.05	1490.87	1994.55	1632.37	266.96
		217	6.47	8.18e-03	-0.32	-0.22	-0.09	-0.15	1963.88	700.78	1834.17	830.49	383.42
		219	6.76	0.47	-0.01	0.42	0.04	-0.15	2069.60	857.09	2052.53	874.16	142.86
		13	7.51	0.46	-0.02	0.41	0.03	-0.15	2214.20	1674.74	2212.90	1676.04	26.40
176	6	216	6.22	5.79	-4.72	5.75	-4.68	0.66	1823.30	1415.38	1526.45	1712.24	181.58
		217	4.62	8.55	7.04	8.17	7.43	0.66	1315.58	311.58	1257.86	369.30	233.70
		219	4.73	6.94	4.53	4.73	6.74	0.66	1384.35	360.10	1355.60	388.85	-169.18
		13	6.52	2.36	-5.42	2.31	-5.37	0.66	1905.74	1450.24	1624.19	1731.78	-221.31
177	1	218	3.81	0.02	-0.20	-0.20	0.01	-0.03	1097.40	195.27	1061.86	230.81	175.51
		75	3.72	-0.03	-0.21	-0.21	-0.03	-0.03	1059.59	159.68	1049.63	169.65	94.17
		220	3.18	0.02	-0.07	-0.05	-1.92e-04	-0.03	904.64	131.64	897.13	139.15	75.83
		217	3.27	0.05	-0.05	-0.04	0.04	-0.03	942.63	167.04	909.36	200.31	157.16
177	6	218	2.89	9.83	1.87	9.83	1.87	-0.01	770.38	136.66	753.70	153.34	101.47
		75	2.89	9.87	2.08	9.87	2.08	-0.01	743.94	67.25	737.72	73.46	64.56
		220	2.58	7.42	1.59	7.42	1.59	-0.01	671.21	56.93	668.51	59.62	40.60
		217	2.57	7.38	1.38	7.38	1.38	-0.01	695.30	128.69	684.49	139.50	77.51
178	1	217	3.66	-0.03	-0.09	-0.06	-0.05	-0.03	1126.76	539.43	1002.11	664.08	240.15
		220	3.10	-4.65e-03	-0.07	-0.05	-0.02	-0.03	944.75	350.45	940.28	354.92	51.34
		126	1.92	0.06	-0.02	0.04	-3.02e-03	-0.03	591.83	278.54	586.26	284.12	-41.41
		219	2.52	0.05	-0.05	0.04	-0.03	-0.03	770.61	470.75	648.09	593.27	147.40
178	6	217	2.61	10.07	6.05	8.61	7.52	-1.93	742.11	225.78	708.47	259.42	127.43
		220	2.50	8.78	3.43	7.95	4.25	-1.93	695.78	188.45	694.53	189.70	25.20
		126	1.81	7.42	2.86	6.35	3.93	-1.93	502.91	151.31	502.86	151.37	4.29
		219	1.93	9.03	5.16	7.00	7.19	-1.93	551.17	186.72	516.80	221.09	106.51
179	1	220	1.86	-0.01	-0.08	-0.07	-0.03	-0.02	570.48	266.82	558.70	278.60	-58.65
		221	2.08	0.05	-0.06	-0.05	0.04	-0.02	640.66	308.67	577.37	371.97	-130.41
		223	1.65	0.06	-0.02	-9.44e-03	0.05	-0.02	507.41	280.47	442.83	345.06	-102.40
		126	1.40	5.70e-03	-0.04	-0.02	-0.02	-0.02	429.44	246.41	424.15	251.70	-30.65
179	6	220	1.61	10.73	3.66	9.77	4.62	-2.41	418.85	133.77	418.19	134.43	-13.71
		221	1.64	11.69	6.04	10.33	7.40	-2.41	403.78	46.08	401.06	48.80	-31.07
		223	1.52	10.04	5.07	8.14	6.96	-2.41	378.10	32.70	368.50	42.29	-56.76
		126	1.48	8.83	2.93	7.58	4.18	-2.41	391.52	122.03	385.63	127.92	-39.40
180	1	222	2.23	0.02	-0.04	-0.02	0.01	-0.02	646.13	120.69	616.85	149.96	-120.52
		51	2.25	-5.26e-03	-0.05	-0.03	-0.03	-0.02	600.24	2.05	589.43	12.86	-79.68
		224	2.57	-7.14e-03	-0.06	-0.03	-0.03	-0.02	688.12	6.06	666.00	28.17	-120.81
		221	2.58	0.02	-0.04	-0.03	9.49e-03	-0.02	738.97	119.73	693.42	165.27	-161.65
180	6	222	2.08	18.26	2.41	17.99	2.68	-2.05	478.56	89.40	466.52	101.45	-67.40
		51	2.09	17.63	-0.54	17.39	-0.31	-2.05	472.08	73.55	462.80	82.84	-60.13
		224	2.02	12.12	-1.73	11.81	-1.42	-2.05	487.18	74.81	476.43	85.56	-65.71
		221	2.01	12.78	1.19	12.40	1.57	-2.05	493.82	90.51	480.15	104.18	-72.98
181	2	221	2.09	16.80	4.98	13.71	8.08	-5.20	489.95	44.94	471.91	62.97	-87.75
		224	3.75	12.67	-6.36	11.13	-4.81	-5.20	1131.70	672.07	683.39	1120.37	-71.25
		29	4.22	7.56	-7.93	5.55	-5.93	-5.20	1241.35	599.53	714.32	1126.56	245.97
		223	2.37	12.78	2.32	8.13	6.96	-5.20	601.72	-29.72	502.84	69.16	229.47
181	6	221	2.09	16.80	4.98	13.71	8.08	-5.20	489.95	44.94	471.91	62.97	-87.75
		224	3.75	12.67	-6.36	11.13	-4.81	-5.20	1131.70	672.07	683.39	1120.37	-71.25
		29	4.22	7.56	-7.93	5.55	-5.93	-5.20	1241.35	599.53	714.32	1126.56	245.97
		223	2.37	12.78	2.32	8.13	6.96	-5.20	601.72	-29.72	502.84	69.16	229.47
182	2	224	3.66	12.65	-4.95	12.28	-4.58	2.52	1087.35	512.12	513.14	1086.32	24.27
		225	1.41	15.61	7.11	14.78	7.94	2.52	317.89	66.90	310.70	74.09	41.88
		227	2.08	10.53	5.07	8.86	6.75	2.52	505.17	-80.76	343.71	80.70	-261.79
		29	4.15	6.85	-6.27	6.35	-5.77	2.52	1210.44	428.64	546.16	1092.93	-279.40
182	6	224	3.66	12.65	-4.95	12.28	-4.58	2.52	1087.35	512.12	513.14	1086.32	24.27
		225	1.41	15.61	7.11	14.78	7.94	2.52	317.89	66.90	310.70	74.09	41.88
		227	2.08	10.53	5.07	8.86	6.75	2.52	505.17	-80.76	343.71	80.70	-261.79
		29	4.15	6.85	-6.27	6.35	-5.77	2.52	1210.44	428.64	546.16	1092.93	-279.40

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
183	1	226	0.56	3.38e-04	-0.06	-0.06	-8.95e-04	8.49e-03	103.33	-67.12	-56.55	92.76	41.11
		78	0.47	7.38e-03	-0.06	-0.06	6.25e-03	8.49e-03	84.52	-58.22	-58.20	84.51	1.53
		228	0.67	0.01	-0.03	-0.03	0.01	8.49e-03	69.67	-132.41	-132.40	69.67	-0.94
		225	0.73	6.83e-03	-0.03	-0.03	4.84e-03	8.49e-03	84.84	-137.67	-130.75	77.92	38.63
183	6	226	0.71	16.37	1.83	16.34	1.86	0.64	53.22	-55.36	-55.35	53.22	-0.20
		78	0.65	16.48	2.39	16.45	2.42	0.64	12.63	-64.23	-63.60	11.99	-6.95
		228	0.61	12.53	1.59	12.49	1.63	0.64	13.62	-80.40	-76.25	9.46	-19.32
		225	0.67	12.41	1.03	12.38	1.07	0.64	52.00	-69.32	-68.00	50.69	-12.57
184	1	225	1.38	0.04	-0.02	-0.02	0.04	-1.77e-03	309.70	-97.03	-86.50	299.17	64.58
		228	1.01	4.34e-03	-0.03	-0.03	4.25e-03	-1.77e-03	199.84	-106.68	-106.42	199.58	-8.98
		127	1.38	0.01	1.56e-03	1.91e-03	0.01	-1.77e-03	175.59	-247.95	-244.35	171.99	-38.86
		227	1.63	0.05	8.75e-03	8.84e-03	0.05	-1.77e-03	274.00	-226.85	-224.44	271.59	34.71
184	4	225	0.98	0.03	-0.02	-0.02	0.03	-1.15e-03	220.61	-67.85	-60.82	213.57	44.50
		228	0.72	4.07e-03	-0.02	-0.02	4.02e-03	-1.15e-03	143.63	-75.10	-74.86	143.39	-7.31
		127	0.98	8.67e-03	1.21e-03	1.40e-03	8.49e-03	-1.15e-03	126.66	-174.69	-172.00	123.96	-28.37
		227	1.16	0.03	6.27e-03	6.32e-03	0.03	-1.15e-03	195.70	-159.51	-157.96	194.15	23.44
185	1	228	1.28	0.01	-0.03	-0.02	5.25e-03	-0.02	196.67	-198.37	-185.47	183.77	-70.21
		229	1.90	0.05	-0.02	-0.02	0.04	-0.02	376.15	-199.04	-155.67	332.78	-151.87
		231	2.10	0.05	5.88e-03	0.01	0.05	-0.02	320.41	-327.04	-308.78	302.16	-107.17
		127	1.64	0.02	-8.54e-03	4.29e-03	0.01	-0.02	154.47	-339.90	-338.58	153.15	-25.51
185	4	228	0.92	9.50e-03	-0.02	-0.02	4.72e-03	-0.01	141.47	-140.66	-131.29	132.10	-50.55
		229	1.35	0.03	-0.01	-0.01	0.03	-0.01	269.02	-141.03	-110.09	238.09	-108.30
		231	1.50	0.04	4.30e-03	8.43e-03	0.04	-0.01	229.50	-231.44	-218.37	216.43	-76.50
		127	1.17	0.02	-5.73e-03	3.10e-03	8.83e-03	-0.01	111.45	-240.57	-239.57	110.45	-18.75
186	1	230	0.93	0.04	-9.70e-03	0.02	0.01	-0.02	270.19	52.56	149.62	173.12	-108.18
		53	0.62	0.02	-0.04	7.21e-03	-0.03	-0.02	137.63	-43.77	111.48	-17.62	-63.72
		232	1.07	5.94e-03	-0.05	-8.07e-03	-0.03	-0.02	252.54	-58.65	194.83	-0.94	-120.94
		229	1.34	0.03	-0.02	2.89e-04	8.82e-03	-0.02	378.19	44.58	232.98	189.79	-165.40
186	6	230	0.98	21.26	2.48	21.15	2.60	-1.49	182.36	58.55	123.73	117.17	-61.82
		53	0.94	20.71	-0.20	20.61	-0.10	-1.49	144.23	28.26	112.33	60.15	-51.78
		232	0.92	14.50	-1.49	14.36	-1.35	-1.49	174.18	20.88	131.15	63.92	-68.89
		229	0.98	15.06	1.19	14.90	1.35	-1.49	211.40	52.08	142.55	120.93	-78.92
187	2	229	1.13	17.64	6.61	16.23	8.02	-3.68	207.46	-2.46	132.80	72.20	-100.50
		232	3.97	14.41	-5.35	13.70	-4.65	-3.68	1135.18	336.68	343.95	1127.92	-75.81
		21	4.29	8.44	-6.83	7.49	-5.89	-3.68	1208.13	319.28	390.23	1137.17	240.91
		231	1.61	12.42	4.38	10.03	6.78	-3.68	351.94	-91.39	179.09	81.46	216.22
187	6	229	1.13	17.64	6.61	16.23	8.02	-3.68	207.46	-2.46	132.80	72.20	-100.50
		232	3.97	14.41	-5.35	13.70	-4.65	-3.68	1135.18	336.68	343.95	1127.92	-75.81
		21	4.29	8.44	-6.83	7.49	-5.89	-3.68	1208.13	319.28	390.23	1137.17	240.91
		231	1.61	12.42	4.38	10.03	6.78	-3.68	351.94	-91.39	179.09	81.46	216.22
188	2	232	3.97	14.39	-5.54	13.53	-4.68	4.05	1125.91	324.19	325.81	1124.29	36.01
		233	0.95	17.74	6.31	16.06	7.99	4.05	164.22	24.41	115.56	73.07	66.60
		235	1.83	12.61	3.95	9.82	6.75	4.05	381.40	-123.93	172.93	84.54	-248.77
		21	4.41	8.43	-7.07	7.28	-5.93	4.05	1228.12	290.81	383.17	1135.76	-279.36
188	6	232	3.97	14.39	-5.54	13.53	-4.68	4.05	1125.91	324.19	325.81	1124.29	36.01
		233	0.95	17.74	6.31	16.06	7.99	4.05	164.22	24.41	115.56	73.07	66.60
		235	1.83	12.61	3.95	9.82	6.75	4.05	381.40	-123.93	172.93	84.54	-248.77
		21	4.41	8.43	-7.07	7.28	-5.93	4.05	1228.12	290.81	383.17	1135.76	-279.36
189	1	234	1.18	3.69e-03	-0.06	-0.05	-1.27e-03	0.02	129.26	-228.14	-209.67	110.79	79.12
		81	1.02	0.02	-0.05	-0.05	0.01	0.02	81.74	-221.64	-216.51	76.60	39.13
		236	1.24	0.02	-0.04	-0.04	0.02	0.02	63.95	-293.84	-291.50	61.61	28.88
		233	1.36	5.96e-03	-0.05	-0.04	3.81e-04	0.02	107.88	-296.74	-284.66	95.79	68.87
189	6	234	1.16	16.39	1.58	16.28	1.68	1.26	68.36	-170.77	-168.15	65.74	24.93
		81	1.07	16.57	2.44	16.45	2.55	1.26	7.52	-181.86	-180.14	5.79	18.01
		236	1.02	12.61	1.61	12.47	1.75	1.26	3.19	-193.11	-193.11	3.19	0.03
		233	1.11	12.43	0.75	12.29	0.89	1.26	63.34	-181.32	-181.12	63.14	6.95
190	1	233	1.95	0.06	-0.03	-0.03	0.05	0.01	340.89	-258.47	-239.44	321.87	105.07
		236	1.51	0.01	-0.04	-0.04	0.01	0.01	194.80	-267.14	-265.24	192.90	29.61
		128	1.91	0.02	-0.03	-0.03	0.02	0.01	164.74	-406.88	-406.74	164.60	-9.08
		235	2.24	0.06	-0.02	-0.02	0.06	0.01	300.04	-387.42	-380.94	293.57	66.38
190	4	233	1.39	0.04	-0.02	-0.02	0.04	7.35e-03	243.69	-183.18	-169.92	230.43	74.05
		236	1.08	0.01	-0.03	-0.03	9.91e-03	7.35e-03	140.33	-189.50	-188.20	139.03	20.65
		128	1.36	0.01	-0.02	-0.02	0.01	7.35e-03	119.12	-288.43	-288.32	119.01	-6.76
		235	1.59	0.04	-0.01	-0.01	0.04	7.35e-03	214.89	-274.52	-270.04	210.40	46.63
191	1	236	1.50	0.01	-0.04	-0.04	0.01	-0.01	195.90	-262.78	-260.69	193.81	-30.92
		237	1.98	0.05	-0.03	-0.03	0.05	-0.01	353.39	-253.66	-232.92	332.64	-110.29
		239	2.27	0.06	-0.02	-0.02	0.05	-0.01	309.69	-388.54	-381.73	302.88	-68.64
		128	1.92	0.02	-0.03	-0.02	0.02	-0.01	164.25	-409.70	-409.50	164.05	10.73
191	4	236	1.07	0.01	-0.03	-0.03	9.91e-03	-7.36e-03	141.24	-186.30	-184.78	139.72	-22.27
		237	1.41	0.04	-0.02	-0.02	0.04	-7.36e-03	253.22	-179.79	-165.03	238.46	-78.56
		239	1.62	0.04	-0.01	-0.01	0.04	-7.36e-03	222.21	-275.44	-270.58	217.35	-48.94
		128	1.37	0.01	-0.02	-0.02	0.01	-7.36e-03	118.74	-290.46	-290.33	118.61	7.35
192	1	238	0.77	0.03	-0.02	4.93e-03	0.01	-0.02	233.30	79.39	131.26	181.43	-72.75
		55	0.42	0.01	-0.04	-3.33e-03	-0.03	-0.02	95.74	-28.40	90.37	-23.03	-25.26

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		240	0.89	-2.94e-03	-0.05	-0.02	-0.03	-0.02	213.68	-39.47	179.42	-5.22	-86.59
		237	1.18	0.02	-0.03	-0.01	8.42e-03	-0.02	344.28	75.28	220.31	199.24	-134.09
192	4	238	0.55	0.02	-0.01	3.50e-03	8.85e-03	-0.02	166.21	56.24	93.15	129.29	-51.93
		55	0.30	7.38e-03	-0.03	-2.44e-03	-0.02	-0.02	68.09	-19.79	64.13	-15.82	-18.23
		240	0.63	-2.07e-03	-0.04	-0.02	-0.02	-0.02	151.91	-27.79	127.32	-3.19	-61.77
		237	0.84	0.02	-0.02	-9.15e-03	6.32e-03	-0.02	244.87	53.39	156.34	141.93	-95.47
193	2	237	0.89	13.56	7.12	13.13	7.55	-1.60	181.35	29.07	128.36	82.05	-72.53
		240	4.00	10.81	-5.03	10.65	-4.86	-1.60	1142.47	337.81	340.01	1140.28	-41.97
		17	4.38	5.89	-6.08	5.67	-5.86	-1.60	1241.63	307.42	397.31	1151.74	275.50
		239	1.72	9.15	5.56	8.16	6.55	-1.60	388.82	-109.65	185.66	93.51	244.94
193	6	237	0.89	13.56	7.12	13.13	7.55	-1.60	181.35	29.07	128.36	82.05	-72.53
		240	4.00	10.81	-5.03	10.65	-4.86	-1.60	1142.47	337.81	340.01	1140.28	-41.97
		17	4.38	5.89	-6.08	5.67	-5.86	-1.60	1241.63	307.42	397.31	1151.74	275.50
		239	1.72	9.15	5.56	8.16	6.55	-1.60	388.82	-109.65	185.66	93.51	244.94
194	2	240	3.99	11.15	-7.75	8.66	-5.26	6.39	1147.23	330.82	338.14	1139.91	76.98
		241	1.19	16.17	2.92	11.28	7.81	6.39	210.73	-15.01	124.42	71.30	109.70
		243	1.71	13.42	0.64	7.09	6.97	6.39	351.65	-82.32	185.76	83.56	-210.88
		17	4.38	7.48	-9.11	4.47	-6.10	6.39	1224.13	327.53	399.48	1152.17	-243.60
194	6	240	3.99	11.15	-7.75	8.66	-5.26	6.39	1147.23	330.82	338.14	1139.91	76.98
		241	1.19	16.17	2.92	11.28	7.81	6.39	210.73	-15.01	124.42	71.30	109.70
		243	1.71	13.42	0.64	7.09	6.97	6.39	351.65	-82.32	185.76	83.56	-210.88
		17	4.38	7.48	-9.11	4.47	-6.10	6.39	1224.13	327.53	399.48	1152.17	-243.60
195	1	242	1.41	3.48e-03	-0.06	-0.06	2.47e-04	0.01	151.02	-277.61	-234.04	107.44	129.54
		84	1.23	0.01	-0.06	-0.06	0.01	0.01	97.08	-266.79	-241.22	71.52	93.00
		244	1.39	0.02	-0.05	-0.05	0.01	0.01	75.37	-327.28	-309.72	57.82	82.23
		241	1.55	5.98e-03	-0.05	-0.05	2.28e-03	0.01	126.60	-335.40	-302.53	93.74	118.76
195	4	242	1.00	2.75e-03	-0.04	-0.04	4.42e-04	0.01	107.33	-197.35	-166.76	76.73	91.58
		84	0.87	0.01	-0.04	-0.04	8.80e-03	0.01	69.10	-189.73	-171.86	51.22	65.63
		244	0.99	0.01	-0.03	-0.03	0.01	0.01	53.75	-232.76	-220.51	41.49	57.98
		241	1.10	4.53e-03	-0.04	-0.03	1.89e-03	0.01	90.06	-238.46	-215.40	67.00	83.92
196	1	241	2.18	0.05	-0.04	-0.04	0.05	0.01	365.65	-305.07	-257.64	318.22	171.94
		244	1.62	0.01	-0.05	-0.05	0.01	0.01	185.27	-308.83	-288.33	164.77	98.53
		129	1.94	0.02	-0.03	-0.03	0.02	0.01	142.09	-430.83	-425.98	137.24	52.50
		243	2.38	0.05	-0.02	-0.02	0.05	0.01	313.07	-417.67	-395.29	290.68	125.91
196	4	241	1.56	0.04	-0.03	-0.03	0.04	7.67e-03	261.36	-216.36	-183.17	228.18	121.47
		244	1.16	0.01	-0.03	-0.03	9.87e-03	7.67e-03	133.29	-219.21	-204.99	119.07	69.35
		129	1.38	0.01	-0.02	-0.02	0.01	7.67e-03	102.84	-306.01	-302.70	99.53	36.62
		243	1.70	0.04	-0.02	-0.02	0.04	7.67e-03	224.22	-296.47	-280.88	208.63	88.73
197	1	244	1.60	0.01	-0.05	-0.05	0.01	-9.59e-03	163.19	-321.74	-317.49	158.94	45.21
		245	1.86	0.04	-0.04	-0.04	0.04	-9.59e-03	279.64	-293.68	-293.40	279.36	-12.67
		247	2.17	0.05	-0.03	-0.03	0.04	-9.59e-03	258.49	-402.75	-401.92	257.65	23.46
		129	1.98	0.02	-0.04	-0.04	0.01	-9.59e-03	148.74	-437.51	-426.00	137.24	81.33
197	4	244	1.15	0.01	-0.03	-0.03	9.70e-03	-6.98e-03	117.75	-228.91	-226.03	114.86	31.51
		245	1.33	0.03	-0.03	-0.03	0.03	-6.98e-03	200.35	-209.19	-208.97	200.13	-9.47
		247	1.54	0.03	-0.02	-0.02	0.03	-6.98e-03	185.31	-286.38	-285.83	184.76	16.11
		129	1.41	0.01	-0.03	-0.03	0.01	-6.98e-03	107.44	-310.82	-302.88	99.49	57.09
198	1	246	0.52	0.02	-0.02	-5.26e-03	8.22e-03	-0.02	159.00	59.89	60.59	158.30	-8.28
		57	0.24	5.71e-03	-0.04	-0.01	-0.02	-0.02	56.70	-10.74	31.77	14.19	32.55
		248	0.37	3.93e-04	-0.04	-0.02	-0.02	-0.02	109.75	28.08	108.33	29.50	-10.68
		245	0.68	0.02	-0.03	-0.01	6.61e-03	-0.02	210.03	100.74	137.15	173.61	-51.51
198	4	246	0.37	0.02	-0.01	-3.57e-03	6.26e-03	-0.02	113.27	41.38	41.93	112.73	-6.22
		57	0.16	4.36e-03	-0.03	-7.75e-03	-0.01	-0.02	39.32	-7.52	21.45	10.35	22.75
		248	0.26	4.45e-04	-0.03	-0.01	-0.02	-0.02	76.91	20.08	75.77	21.22	-7.96
		245	0.49	0.01	-0.02	-9.51e-03	5.07e-03	-0.02	149.31	70.54	96.25	123.60	-36.93
199	2	245	0.37	8.64	3.88	4.26	8.25	-1.30	86.40	16.77	80.86	22.30	18.83
		248	3.65	2.37	-3.18	2.04	-2.86	-1.30	1058.20	283.03	287.21	1054.03	56.77
		25	4.35	0.06	-3.85	-0.44	-3.35	-1.30	1223.35	203.23	358.33	1068.25	366.29
		247	2.26	8.03	1.52	1.79	7.76	-1.30	427.64	-239.13	151.99	36.53	328.35
199	6	245	0.37	8.64	3.88	4.26	8.25	-1.30	86.40	16.77	80.86	22.30	18.83
		248	3.65	2.37	-3.18	2.04	-2.86	-1.30	1058.20	283.03	287.21	1054.03	56.77
		25	4.35	0.06	-3.85	-0.44	-3.35	-1.30	1223.35	203.23	358.33	1068.25	366.29
		247	2.26	8.03	1.52	1.79	7.76	-1.30	427.64	-239.13	151.99	36.53	328.35
200	1	57	0.49	9.17e-03	-0.02	8.11e-03	-0.02	5.27e-03	123.34	-12.96	85.45	24.93	61.06
		3	1.10	0.02	7.35e-03	0.01	0.01	5.27e-03	321.43	70.55	132.39	259.59	108.12
		249	1.45	0.01	-1.10e-03	1.59e-03	9.22e-03	5.27e-03	417.78	69.25	211.59	275.43	171.32
		248	0.98	-2.45e-03	-0.02	-4.10e-03	-0.02	5.27e-03	241.56	-36.13	164.66	40.77	124.26
200	4	57	0.34	6.75e-03	-0.01	5.95e-03	-0.01	3.87e-03	87.11	-8.80	60.20	18.10	43.09
		3	0.78	0.01	5.53e-03	0.01	8.81e-03	3.87e-03	227.89	50.02	93.47	184.44	76.42
		249	1.03	8.97e-03	-7.04e-04	1.23e-03	7.04e-03	3.87e-03	296.01	49.23	149.58	195.66	121.22
		248	0.69	-1.67e-03	-0.01	-2.91e-03	-0.01	3.87e-03	170.87	-25.24	116.31	29.32	87.88
201	2	162	4.10	8.01	3.21	7.62	3.59	-1.30	1198.26	278.83	294.84	1182.25	120.26
		352	1.50	17.91	10.22	10.44	17.69	-1.30	330.59	-37.16	97.57	195.87	177.19
		250	1.86	16.33	2.90	3.02	16.20	-1.30	449.61	14.60	239.88	224.33	-217.37
		30	4.43	2.76	-0.45	0.20	2.11	-1.30	1298.10	349.77	437.16	1210.71	-274.29

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
201	6	162	4.10	8.01	3.21	7.62	3.59	-1.30	1198.26	278.83	294.84	1182.25	120.26
		352	1.50	17.91	10.22	10.44	17.69	-1.30	330.59	-37.16	97.57	195.87	177.19
		250	1.86	16.33	2.90	3.02	16.20	-1.30	449.61	14.60	239.88	224.33	-217.37
		30	4.43	2.76	-0.45	0.20	2.11	-1.30	1298.10	349.77	437.16	1210.71	-274.29
202	1	351	0.90	0.11	0.04	0.05	0.11	0.02	234.24	-11.83	56.24	166.17	-110.08
		336	2.11	0.08	0.03	0.04	0.07	0.02	562.97	1.91	113.32	451.56	-223.82
		251	2.01	0.09	0.04	0.06	0.07	0.02	415.21	-191.54	-171.03	394.69	-109.66
		62	1.12	0.12	0.06	0.07	0.11	0.02	109.35	-228.16	-228.11	109.30	4.08
202	4	351	0.67	0.08	0.03	0.04	0.08	0.02	176.99	-3.73	41.45	131.81	-78.25
		336	1.53	0.06	0.02	0.03	0.05	0.02	411.23	5.26	81.99	334.49	-158.95
		251	1.47	0.06	0.03	0.04	0.05	0.02	308.31	-133.91	-119.74	294.15	-77.87
		62	0.83	0.09	0.04	0.05	0.08	0.02	91.50	-160.31	-160.28	91.47	2.82
203	2	335	3.87	9.91	2.46	7.65	4.72	3.43	1119.20	292.85	313.20	1098.85	128.08
		354	1.62	19.82	9.17	10.42	18.58	3.43	322.81	-39.95	125.00	157.85	180.63
		252	1.64	17.59	1.01	1.75	16.84	3.43	419.34	21.19	256.39	184.13	-195.77
		31	4.03	4.95	-2.98	-1.02	2.99	3.43	1206.11	363.61	444.59	1125.13	-248.32
203	6	335	3.87	9.91	2.46	7.65	4.72	3.43	1119.20	292.85	313.20	1098.85	128.08
		354	1.62	19.82	9.17	10.42	18.58	3.43	322.81	-39.95	125.00	157.85	180.63
		252	1.64	17.59	1.01	1.75	16.84	3.43	419.34	21.19	256.39	184.13	-195.77
		31	4.03	4.95	-2.98	-1.02	2.99	3.43	1206.11	363.61	444.59	1125.13	-248.32
204	2	100	0.81	3.21	-40.59	-30.05	-7.33	18.72	335.94	95.19	224.76	206.38	120.02
		253	1.56	84.47	-16.03	-12.41	80.85	18.72	324.93	-27.12	202.54	95.27	167.66
		254	1.57	81.98	-26.72	-23.39	78.66	18.72	379.84	60.87	321.62	119.09	123.21
		64	0.98	-0.81	-49.75	-41.03	-9.53	18.72	381.58	192.46	343.84	230.19	75.58
204	5	100	0.84	3.20	-40.63	-30.10	-7.33	18.73	272.79	40.04	110.91	201.92	107.11
		253	1.62	84.47	-16.08	-12.46	80.85	18.73	255.06	-36.22	95.24	123.59	144.95
		254	1.60	81.98	-26.77	-23.45	78.65	18.73	282.23	50.13	189.84	142.52	113.62
		64	0.83	-0.82	-49.79	-41.08	-9.53	18.73	289.34	137.01	205.51	220.84	75.77
205	2	143	1.82	29.02	-4.14	-4.07	28.94	1.62	308.70	56.48	58.19	307.00	-20.65
		255	1.80	28.96	-4.16	-4.08	28.88	1.62	311.13	24.53	53.26	282.40	-86.08
		256	2.10	28.00	-8.93	-8.86	27.93	1.62	273.64	-134.28	-110.32	249.68	-95.93
		91	2.11	28.06	-8.91	-8.84	27.99	1.62	276.72	-107.83	-105.40	274.29	-30.49
205	5	143	2.24	29.01	-4.17	-4.09	28.93	1.61	406.58	32.38	32.47	406.49	5.83
		255	1.95	28.95	-4.18	-4.10	28.87	1.61	322.70	10.25	14.80	318.15	-37.44
		256	2.19	27.99	-8.95	-8.88	27.92	1.61	309.65	-106.52	-93.38	296.51	-72.78
		91	2.44	28.05	-8.94	-8.87	27.98	1.61	386.74	-77.60	-75.71	384.85	-29.50
206	2	91	2.08	30.14	-8.46	-8.42	30.10	1.30	252.33	-113.31	-110.37	249.40	-32.61
		256	3.06	29.63	-8.57	-8.52	29.59	1.30	546.70	-86.33	-56.82	517.19	133.47
		253	2.98	29.08	-11.30	-11.26	29.04	1.30	631.48	78.02	150.79	558.71	187.03
		100	1.80	29.59	-11.20	-11.15	29.55	1.30	293.16	94.99	97.23	290.92	20.95
206	5	91	2.21	30.13	-8.49	-8.45	30.09	1.29	300.20	-95.50	-93.12	297.82	-30.57
		256	3.11	29.63	-8.59	-8.55	29.59	1.29	572.53	-61.45	-42.06	553.14	109.18
		253	3.04	29.08	-11.33	-11.28	29.04	1.29	638.80	81.89	132.62	588.07	160.24
		100	1.98	29.58	-11.23	-11.18	29.54	1.29	334.42	79.90	81.56	332.76	20.50
207	2	31	2.33	33.83	4.61	5.06	33.39	3.59	357.01	-210.90	207.32	-61.21	-250.21
		252	2.97	20.77	1.69	2.40	20.06	3.59	779.28	65.44	323.76	520.96	-343.03
		255	2.22	18.86	-6.70	-6.19	18.34	3.59	503.99	62.26	91.70	474.55	-110.16
		143	1.22	32.03	-3.88	-3.52	31.67	3.59	-21.26	-111.10	-24.74	-107.62	-17.33
207	6	31	2.33	33.83	4.61	5.06	33.39	3.59	357.01	-210.90	207.32	-61.21	-250.21
		252	2.97	20.77	1.69	2.40	20.06	3.59	779.28	65.44	323.76	520.96	-343.03
		255	2.22	18.86	-6.70	-6.19	18.34	3.59	503.99	62.26	91.70	474.55	-110.16
		143	1.22	32.03	-3.88	-3.52	31.67	3.59	-21.26	-111.10	-24.74	-107.62	-17.33
208	1	353	1.81	0.10	0.03	0.05	0.08	0.03	553.32	225.17	520.79	257.70	-98.07
		338	2.67	0.07	-1.71e-03	0.04	0.03	0.03	818.52	352.67	586.24	584.95	-232.92
		257	1.81	0.11	0.02	0.10	0.04	0.03	551.90	214.72	249.10	517.52	-102.03
		65	0.74	0.13	0.06	0.11	0.09	0.03	219.96	153.97	183.65	190.28	32.83
208	4	353	1.30	0.07	0.02	0.04	0.06	0.02	398.25	174.38	374.97	197.66	-68.33
		338	1.92	0.05	7.86e-04	0.03	0.02	0.02	590.10	261.80	421.52	430.37	-164.09
		257	1.33	0.08	0.02	0.07	0.03	0.02	405.10	159.51	182.12	382.49	-71.00
		65	0.56	0.10	0.05	0.08	0.07	0.02	168.43	116.92	135.57	149.78	24.76
209	2	107	2.81	11.73	-40.49	-26.92	-1.84	22.89	1544.80	-230.42	1499.42	-185.03	-280.18
		258	3.16	85.99	-15.88	-10.45	80.56	22.89	1647.41	116.45	1574.33	189.53	-326.41
		259	3.08	82.47	-30.10	-25.23	77.60	22.89	1482.45	142.72	1458.76	166.41	-176.59
		44	2.73	6.16	-52.66	-41.71	-4.79	22.89	1394.45	-218.75	1383.85	-208.15	-130.36
209	6	107	2.81	11.73	-40.49	-26.92	-1.84	22.89	1544.80	-230.42	1499.42	-185.03	-280.18
		258	3.16	85.99	-15.88	-10.45	80.56	22.89	1647.41	116.45	1574.33	189.53	-326.41
		259	3.08	82.47	-30.10	-25.23	77.60	22.89	1482.45	142.72	1458.76	166.41	-176.59
		44	2.73	6.16	-52.66	-41.71	-4.79	22.89	1394.45	-218.75	1383.85	-208.15	-130.36
210	2	144	4.70	16.86	-3.69	-2.01	15.18	5.63	1323.62	583.02	623.10	1283.54	167.57
		260	2.52	30.85	-0.15	0.91	29.79	5.63	613.41	131.95	429.55	315.80	233.91
		261	2.49	29.18	-7.45	-6.57	28.30	5.63	668.79	275.61	595.42	348.97	-153.18
		18	4.72	14.98	-10.78	-9.49	13.68	5.63	1396.09	709.59	788.97	1316.71	-219.53
210	6	144	4.70	16.86	-3.69	-2.01	15.18	5.63	1323.62	583.02	623.10	1283.54	167.57
		260	2.52	30.85	-0.15	0.91	29.79	5.63	613.41	131.95	429.55	315.80	233.91

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		261	2.49	29.18	-7.45	-6.57	28.30	5.63	668.79	275.61	595.42	348.97	-153.18
		18	4.72	14.98	-10.78	-9.49	13.68	5.63	1396.09	709.59	788.97	1316.71	-219.53
211	2	18	3.84	44.40	-4.50	-3.54	43.44	6.79	528.73	-333.23	470.61	-275.11	-216.16
		261	3.55	31.03	-7.50	-6.27	29.80	6.79	991.22	224.97	640.72	575.47	-381.73
		258	2.60	30.19	-11.19	-10.05	29.04	6.79	701.39	266.43	433.75	534.07	-211.62
		107	3.07	43.59	-8.22	-7.32	42.68	6.79	267.27	-320.13	263.64	-316.50	-46.04
211	6	18	3.84	44.40	-4.50	-3.54	43.44	6.79	528.73	-333.23	470.61	-275.11	-216.16
		261	3.55	31.03	-7.50	-6.27	29.80	6.79	991.22	224.97	640.72	575.47	-381.73
		258	2.60	30.19	-11.19	-10.05	29.04	6.79	701.39	266.43	433.75	534.07	-211.62
		107	3.07	43.59	-8.22	-7.32	42.68	6.79	267.27	-320.13	263.64	-316.50	-46.04
212	2	65	0.82	20.08	1.22	1.96	19.33	3.67	129.57	115.91	128.56	116.91	3.56
		257	2.34	20.80	1.39	2.11	20.08	3.67	557.41	173.10	209.40	521.10	112.40
		260	3.03	20.06	-1.80	-1.16	19.42	3.67	806.60	250.43	481.50	575.52	274.08
		144	1.81	19.33	-1.96	-1.31	18.68	3.67	487.13	84.87	400.66	171.33	165.24
212	6	65	0.82	20.08	1.22	1.96	19.33	3.67	129.57	115.91	128.56	116.91	3.56
		257	2.34	20.80	1.39	2.11	20.08	3.67	557.41	173.10	209.40	521.10	112.40
		260	3.03	20.06	-1.80	-1.16	19.42	3.67	806.60	250.43	481.50	575.52	274.08
		144	1.81	19.33	-1.96	-1.31	18.68	3.67	487.13	84.87	400.66	171.33	165.24
213	1	337	4.45	0.06	1.50e-03	0.01	0.05	0.02	1351.46	864.62	1241.50	974.58	203.57
		356	4.34	0.17	0.03	0.04	0.16	0.02	1280.99	315.28	1138.20	458.07	342.80
		262	4.98	0.10	-0.30	-0.30	0.09	0.02	1505.23	508.71	1486.25	527.68	136.19
		32	5.25	-0.02	-0.32	-0.32	-0.02	0.02	1589.57	1044.18	1589.56	1044.19	-3.03
213	6	337	4.84	12.27	-2.01	5.48	4.79	7.13	1387.58	988.93	1089.76	1286.74	173.29
		356	3.58	22.10	4.54	8.21	18.44	7.13	942.08	97.43	866.93	172.58	240.48
		262	4.04	19.70	-1.75	0.96	16.99	7.13	1082.91	158.15	1034.89	206.17	-205.19
		32	5.24	8.36	-6.79	-1.77	3.34	7.13	1563.20	1014.86	1257.72	1320.34	-272.37
214	1	108	3.16	0.11	-2.40e-03	0.10	8.72e-03	-0.03	2431.46	145.39	2431.41	145.44	10.38
		263	3.17	0.12	0.02	0.11	0.04	-0.03	2432.26	132.19	2429.34	135.11	81.90
		264	3.38	0.02	-0.07	-0.06	5.05e-03	-0.03	2610.62	168.39	2608.14	170.87	77.77
		67	3.38	-4.25e-03	-0.08	-0.06	-0.02	-0.03	2610.22	181.18	2610.20	181.20	6.25
214	6	108	2.49	6.41	-37.01	-23.26	-7.34	20.20	1697.33	191.37	1696.27	192.43	39.90
		263	2.98	84.81	-10.23	-5.73	80.31	20.20	1695.37	144.91	1688.20	152.08	105.18
		264	3.25	83.07	-17.36	-13.12	78.83	20.20	1856.15	179.98	1851.40	184.72	89.04
		67	2.79	3.22	-42.70	-30.65	-8.82	20.20	1859.82	224.72	1859.47	225.07	23.76
215	1	145	3.57	0.05	-0.01	0.02	0.02	0.03	1003.10	114.65	933.33	184.42	-238.99
		265	4.56	0.02	-0.05	6.38e-03	-0.03	0.03	1321.28	251.90	1009.24	563.94	-486.13
		266	2.68	0.08	-0.03	0.07	-0.02	0.03	751.10	80.67	391.39	440.37	-334.32
		92	1.23	0.10	0.02	0.08	0.03	0.03	342.47	33.86	315.49	60.85	-87.18
215	4	145	2.54	0.03	-6.46e-03	0.01	0.01	0.02	724.63	106.05	674.03	156.65	-169.53
		265	3.28	0.02	-0.03	5.11e-03	-0.02	0.02	958.81	201.55	728.98	431.38	-348.17
		266	1.95	0.06	-0.02	0.05	-0.01	0.02	552.36	72.09	282.39	342.06	-238.27
		92	0.85	0.07	0.01	0.06	0.02	0.02	247.21	47.56	227.44	67.33	-59.64
216	2	92	1.50	30.75	-5.88	-5.38	30.26	4.22	318.19	75.58	178.31	215.46	-119.88
		266	2.86	30.06	-6.03	-5.53	29.56	4.22	645.83	252.58	262.42	635.99	61.41
		263	3.06	29.71	-7.64	-7.16	29.23	4.22	759.58	410.76	489.03	681.32	145.52
		108	1.64	30.41	-7.50	-7.02	29.93	4.22	413.31	252.40	404.92	260.79	-35.77
216	5	92	1.79	30.75	-5.91	-5.42	30.26	4.22	301.17	52.21	66.79	286.60	-58.45
		266	3.03	30.09	-6.05	-5.55	29.59	4.22	644.77	117.21	134.89	627.10	94.93
		263	3.11	29.75	-7.67	-7.19	29.27	4.22	731.15	260.91	326.62	665.45	163.04
		108	1.73	30.40	-7.53	-7.06	29.93	4.22	326.32	257.14	258.52	324.94	9.65
217	1	32	5.16	-0.01	-0.32	-0.32	-0.02	-0.03	1573.94	952.02	1571.59	954.37	-38.14
		262	5.14	0.08	-0.30	-0.30	0.08	-0.03	1529.21	416.22	1474.84	470.60	-239.92
		265	4.25	0.15	0.04	0.04	0.15	-0.03	1197.37	142.73	970.39	369.71	-433.43
		145	3.97	0.07	6.73e-03	0.02	0.05	-0.03	1215.41	705.21	1067.14	853.48	-231.65
217	6	32	4.51	35.05	2.48	4.23	33.31	7.34	1109.90	39.26	1019.57	129.59	-297.56
		262	4.94	22.62	-0.98	1.58	20.06	7.34	1368.97	264.40	1100.27	533.09	-473.92
		265	3.25	20.81	-7.13	-5.05	18.73	7.34	882.56	221.75	659.39	444.92	-312.52
		145	2.88	33.48	-3.90	-2.41	31.98	7.34	611.23	8.87	578.69	41.41	-136.16
218	1	355	3.97	0.08	-0.22	-0.22	0.08	1.32e-03	779.34	-422.50	680.84	-324.00	-329.66
		340	4.11	5.79e-03	-0.24	-0.24	5.78e-03	1.32e-03	967.03	-220.42	745.80	0.82	-462.34
		267	2.75	1.90e-03	-0.26	-0.26	1.89e-03	1.32e-03	584.18	-235.60	414.10	-65.52	-332.42
		68	2.74	0.08	-0.24	-0.24	0.08	1.32e-03	399.64	-440.84	349.14	-390.34	-199.74
218	6	355	2.94	20.83	-0.52	2.06	18.25	6.96	455.17	-309.61	395.86	-250.30	-204.56
		340	2.93	19.18	-1.07	1.70	16.41	6.96	526.41	-235.92	420.01	-129.52	-264.18
		267	2.43	18.80	-2.20	0.44	16.16	6.96	360.58	-248.96	270.95	-159.33	-215.87
		68	2.48	20.47	-1.66	0.81	18.00	6.96	289.65	-322.95	246.80	-280.11	-156.25
219	2	109	3.71	15.88	-34.81	-16.64	-2.29	24.31	1746.08	-873.98	1282.98	-410.89	-999.44
		268	3.84	86.16	-7.14	-0.31	79.33	24.31	2202.83	-146.95	1480.28	575.60	-1084.32
		269	3.04	84.17	-14.52	-8.12	77.77	24.31	1682.13	119.12	1268.08	533.16	-689.72
		46	2.94	12.25	-40.54	-24.44	-3.85	24.31	1281.65	-664.19	1070.79	-453.32	-604.84
219	6	109	3.71	15.88	-34.81	-16.64	-2.29	24.31	1746.08	-873.98	1282.98	-410.89	-999.44
		268	3.84	86.16	-7.14	-0.31	79.33	24.31	2202.83	-146.95	1480.28	575.60	-1084.32
		269	3.04	84.17	-14.52	-8.12	77.77	24.31	1682.13	119.12	1268.08	533.16	-689.72
		46	2.94	12.25	-40.54	-24.44	-3.85	24.31	1281.65	-664.19	1070.79	-453.32	-604.84

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
220	2	146	5.23	19.32	-5.21	-0.95	15.06	9.30	1519.50	719.40	734.04	1504.86	-107.21
		270	2.33	30.82	-1.35	1.61	27.86	9.30	529.33	476.33	528.50	477.16	6.58
		271	4.06	29.74	-5.11	-2.42	27.05	9.30	1101.39	245.64	812.98	534.05	-404.51
		22	6.19	18.01	-8.75	-4.98	14.25	9.30	1875.30	704.98	1018.52	1561.76	-518.30
220	6	146	5.23	19.32	-5.21	-0.95	15.06	9.30	1519.50	719.40	734.04	1504.86	-107.21
		270	2.33	30.82	-1.35	1.61	27.86	9.30	529.33	476.33	528.50	477.16	6.58
		271	4.06	29.74	-5.11	-2.42	27.05	9.30	1101.39	245.64	812.98	534.05	-404.51
		22	6.19	18.01	-8.75	-4.98	14.25	9.30	1875.30	704.98	1018.52	1561.76	-518.30
221	2	22	5.16	45.24	-1.20	0.81	43.23	9.46	1077.36	-224.22	730.66	122.48	-575.38
		271	7.12	31.51	-4.73	-2.07	28.84	9.46	1831.27	-12.61	891.58	927.08	-921.77
		268	5.78	31.02	-6.52	-3.97	28.46	9.46	1433.98	-134.91	458.59	840.48	-760.85
		109	3.59	44.80	-3.04	-1.09	42.85	9.46	601.41	-267.86	297.67	35.88	-414.46
221	6	22	5.16	45.24	-1.20	0.81	43.23	9.46	1077.36	-224.22	730.66	122.48	-575.38
		271	7.12	31.51	-4.73	-2.07	28.84	9.46	1831.27	-12.61	891.58	927.08	-921.77
		268	5.78	31.02	-6.52	-3.97	28.46	9.46	1433.98	-134.91	458.59	840.48	-760.85
		109	3.59	44.80	-3.04	-1.09	42.85	9.46	601.41	-267.86	297.67	35.88	-414.46
222	1	68	2.87	0.05	-0.25	-0.25	0.05	0.03	430.26	-451.20	352.52	-373.45	-249.97
		267	2.27	-3.00e-03	-0.26	-0.26	-7.17e-03	0.03	492.95	-181.11	407.98	-96.14	-223.74
		270	2.09	0.02	-0.17	-0.16	0.01	0.03	495.56	-105.02	473.56	-83.02	-112.81
		146	2.69	0.07	-0.15	-0.15	0.07	0.03	442.19	-384.42	418.10	-360.33	-139.05
222	6	68	2.54	21.45	-1.48	1.00	18.97	7.13	319.54	-306.71	254.49	-241.66	-191.06
		267	1.76	22.78	-1.07	1.29	20.42	7.13	379.36	13.63	317.85	75.14	-136.79
		270	1.80	22.45	-2.19	0.08	20.18	7.13	453.81	101.98	453.52	102.27	-10.08
		146	2.48	21.11	-2.60	-0.21	18.73	7.13	396.93	-221.29	390.16	-214.52	-64.35
223	1	339	6.37	2.27e-03	-0.39	-0.39	2.25e-03	3.02e-03	-296.51	-1826.01	-1770.09	-352.43	-287.06
		358	6.23	4.89e-03	-0.39	-0.39	4.87e-03	3.02e-03	-321.30	-1795.42	-1769.13	-347.59	-195.10
		272	5.45	0.02	-0.31	-0.31	0.02	3.02e-03	-272.16	-1568.67	-1539.22	-301.61	-193.16
		33	5.62	0.02	-0.32	-0.32	0.02	3.02e-03	-243.74	-1602.89	-1540.19	-306.45	-285.13
223	4	339	4.56	2.49e-03	-0.28	-0.28	2.49e-03	6.19e-04	-202.69	-1303.09	-1265.56	-240.22	-199.73
		358	4.46	3.86e-03	-0.28	-0.28	3.86e-03	6.19e-04	-218.43	-1282.26	-1264.71	-235.97	-135.49
		272	3.92	0.01	-0.23	-0.23	0.01	6.19e-04	-184.39	-1123.57	-1104.11	-203.85	-133.79
		33	4.03	0.01	-0.23	-0.23	0.01	6.19e-04	-166.32	-1146.74	-1104.96	-208.10	-198.03
224	1	110	6.60	0.01	-0.36	-0.36	0.01	-9.80e-03	-12.21	-4940.00	-4855.74	-96.47	-638.84
		273	6.75	-4.40e-03	-0.36	-0.36	-4.66e-03	-9.80e-03	370.49	-4849.53	-4776.88	297.84	-611.52
		274	6.60	0.02	-0.24	-0.24	0.02	-9.80e-03	352.19	-4749.28	-4708.59	311.50	-453.80
		70	6.45	0.04	-0.24	-0.24	0.04	-9.80e-03	-34.11	-4836.14	-4787.45	-82.81	-481.11
224	6	110	4.81	10.68	-31.94	-12.80	-8.47	21.20	52.55	-3538.23	-3464.63	-21.05	-508.78
		273	5.44	85.03	-0.82	4.78	79.43	21.20	315.97	-3476.32	-3410.41	250.06	-495.58
		274	5.32	86.31	3.94	9.82	80.44	21.20	297.44	-3418.20	-3377.42	256.66	-387.14
		70	4.75	13.59	-28.81	-7.76	-7.46	21.20	31.83	-3477.91	-3431.64	-14.45	-400.33
225	1	147	5.48	0.03	-0.28	-0.28	0.03	0.01	-20.41	-1470.10	-1417.24	-73.26	-271.72
		275	5.30	0.01	-0.28	-0.28	0.01	0.01	-83.36	-1451.79	-1424.69	-110.47	-190.67
		276	4.66	0.02	-0.24	-0.24	0.02	0.01	-34.37	-1257.65	-1222.07	-69.95	-205.55
		93	4.87	0.04	-0.24	-0.24	0.04	0.01	33.09	-1280.46	-1214.63	-32.74	-286.60
225	6	147	4.51	26.62	-0.43	0.24	25.95	4.21	108.85	-1058.93	-1026.53	76.44	-191.81
		275	4.30	27.90	-0.15	0.50	27.25	4.21	2.35	-1059.64	-1044.40	-12.89	-126.30
		276	3.85	27.60	-1.48	-0.86	26.98	4.21	48.13	-908.90	-880.63	19.86	-162.04
		93	4.11	26.32	-1.77	-1.12	25.68	4.21	159.83	-913.40	-862.76	109.20	-227.55
226	1	93	5.64	0.04	-0.24	-0.24	0.04	-1.65e-03	335.89	-1304.83	-1168.23	199.29	-453.28
		276	5.13	0.01	-0.24	-0.24	0.01	-1.65e-03	222.05	-1243.04	-1176.90	155.92	-304.17
		273	4.60	0.02	-0.21	-0.21	0.02	-1.65e-03	270.79	-1068.12	-990.52	193.19	-312.85
		110	5.16	0.05	-0.21	-0.21	0.05	-1.65e-03	391.91	-1137.19	-981.84	236.57	-461.96
226	6	93	4.69	29.52	-1.06	-0.47	28.93	4.20	326.07	-959.26	-842.70	209.51	-369.09
		276	4.39	33.32	-0.23	0.30	32.79	4.20	246.46	-901.52	-846.35	191.29	-245.54
		273	3.98	33.24	-0.62	-0.09	32.71	4.20	285.69	-755.43	-691.92	222.17	-249.19
		110	4.32	29.43	-1.44	-0.86	28.85	4.20	371.49	-819.37	-688.27	240.40	-372.73
227	1	33	5.51	8.34e-03	-0.32	-0.32	7.61e-03	0.02	-297.65	-1592.64	-1547.46	-342.83	-237.63
		272	5.47	0.01	-0.32	-0.32	0.01	0.02	-278.73	-1574.91	-1541.36	-312.29	-205.83
		275	5.18	0.02	-0.28	-0.28	0.02	0.02	-265.07	-1493.19	-1461.87	-296.39	-193.62
		147	5.22	0.02	-0.28	-0.28	0.01	0.02	-284.01	-1510.89	-1467.98	-326.93	-225.41
227	6	33	4.07	22.22	0.34	1.28	21.28	4.45	-167.32	-1118.57	-1099.12	-186.77	-134.61
		272	4.06	22.01	0.29	1.24	21.06	4.45	-161.03	-1114.41	-1097.38	-178.06	-126.30
		275	4.04	21.53	-1.70	-0.82	20.65	4.45	-157.50	-1093.01	-1076.60	-173.91	-122.82
		147	4.04	21.74	-1.65	-0.78	20.86	4.45	-163.81	-1097.14	-1078.34	-182.61	-131.13
228	1	357	7.72	2.86e-03	-0.39	-0.39	2.83e-03	-3.12e-03	-456.50	-2245.93	-2245.18	-457.25	36.63
		342	7.76	5.68e-03	-0.39	-0.39	5.65e-03	-3.12e-03	-435.20	-2249.30	-2242.19	-442.31	113.34
		277	7.11	0.02	-0.33	-0.33	0.02	-3.12e-03	-395.36	-2059.03	-2050.43	-403.96	119.31
		71	7.06	0.01	-0.33	-0.33	0.01	-3.12e-03	-417.78	-2054.52	-2053.41	-418.89	42.60
228	6	357	5.58	15.07	1.21	1.25	15.03	-0.78	-322.90	-1594.68	-1594.22	-323.35	24.01
		342	5.59	15.18	1.23	1.28	15.14	-0.78	-317.46	-1598.03	-1593.88	-321.62	72.82
		277	5.21	14.90	-0.13	-0.09	14.86	-0.78	-292.63	-1476.43	-1471.84	-297.21	73.51
		71	5.19	14.80	-0.15	-0.11	14.75	-0.78	-298.42	-1472.71	-1472.19	-298.94	24.70
229	1	111	8.40	-3.61e-03	-0.35	-0.35	-3.61e-03	7.77e-04	140.54	-6208.32	-6202.56	134.77	191.19
		278	8.35	-1.39e-03	-0.35	-0.35	-1.39e-03	7.77e-04	13.77	-6234.60	-6228.07	7.24	201.95

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		279	8.31	0.02	-0.27	-0.27	0.02	7.77e-04	16.29	-6204.83	-6201.17	12.62	150.94
		48	8.36	0.01	-0.27	-0.27	0.01	7.77e-04	143.26	-6178.77	-6175.66	140.15	140.18
229	6	111	6.21	9.57	-28.84	-10.81	-8.46	19.17	134.51	-4470.18	-4465.03	129.37	153.85
		278	6.65	84.43	2.09	6.82	79.69	19.17	40.44	-4489.51	-4483.94	34.86	158.86
		279	6.55	85.97	7.99	13.03	80.94	19.17	40.61	-4474.68	-4471.43	37.36	121.05
		48	6.10	13.31	-25.13	-4.60	-7.22	19.17	134.81	-4455.46	-4452.53	131.87	116.05
230	1	148	6.42	6.57e-03	-0.28	-0.28	6.55e-03	-2.69e-03	-177.65	-1792.13	-1790.93	-178.84	43.97
		280	6.47	0.01	-0.28	-0.28	0.01	-2.69e-03	-173.36	-1802.44	-1791.94	-183.87	130.40
		281	5.73	0.02	-0.23	-0.23	0.02	-2.69e-03	-129.26	-1587.27	-1575.87	-140.65	128.39
		26	5.68	0.02	-0.23	-0.23	0.02	-2.69e-03	-134.41	-1576.09	-1574.87	-135.63	41.96
230	6	148	5.04	26.53	0.67	0.68	26.52	-0.57	-62.84	-1287.94	-1287.26	-63.52	28.84
		280	5.08	27.31	0.83	0.84	27.30	-0.57	-55.07	-1293.42	-1286.88	-61.61	89.72
		281	4.60	27.12	-0.13	-0.12	27.11	-0.57	-23.79	-1142.04	-1134.67	-31.16	90.49
		26	4.56	26.34	-0.29	-0.28	26.33	-0.57	-32.28	-1135.84	-1135.05	-33.08	29.60
231	1	26	5.93	6.69e-03	-0.23	-0.23	6.69e-03	8.81e-05	92.60	-1530.53	-1529.44	91.52	42.02
		281	6.09	0.02	-0.23	-0.23	0.02	8.81e-05	116.55	-1562.02	-1530.69	85.23	227.14
		278	5.35	0.02	-0.20	-0.20	0.02	8.81e-05	166.32	-1334.10	-1299.29	131.51	225.88
		111	5.16	0.01	-0.21	-0.21	0.01	8.81e-05	138.95	-1299.19	-1298.03	137.80	40.76
231	6	26	4.85	29.13	0.29	0.29	29.13	0.11	127.43	-1103.78	-1103.09	126.74	29.29
		281	5.04	32.89	1.04	1.04	32.89	0.11	163.85	-1124.17	-1100.41	140.10	173.29
		278	4.51	32.91	1.14	1.14	32.91	0.11	203.65	-947.96	-920.41	176.10	175.97
		111	4.29	29.15	0.39	0.39	29.15	0.11	163.68	-924.02	-923.08	162.74	31.96
232	1	71	7.06	6.06e-03	-0.33	-0.33	6.01e-03	-4.05e-03	-416.88	-2054.34	-2053.23	-417.99	42.59
		277	7.11	7.80e-03	-0.33	-0.33	7.76e-03	-4.05e-03	-403.99	-2063.11	-2052.54	-414.55	131.95
		280	6.35	0.02	-0.28	-0.28	0.02	-4.05e-03	-357.79	-1841.22	-1829.14	-369.87	133.33
		148	6.29	0.02	-0.28	-0.28	0.02	-4.05e-03	-371.98	-1831.15	-1829.82	-373.31	43.96
232	6	71	5.25	21.10	1.12	1.15	21.07	-0.80	-261.15	-1465.24	-1464.73	-261.65	24.71
		277	5.28	21.07	1.11	1.14	21.04	-0.80	-245.66	-1468.19	-1462.64	-251.21	82.14
		280	4.84	20.75	-0.51	-0.48	20.72	-0.80	-215.74	-1325.81	-1319.06	-222.49	86.32
		148	4.80	20.77	-0.50	-0.47	20.74	-0.80	-232.17	-1321.91	-1321.15	-232.94	28.89
233	1	341	3.33	3.02e-03	-0.40	-0.39	2.43e-03	0.02	77.04	-844.03	-640.33	-126.66	382.27
		360	3.51	-0.02	-0.40	-0.40	-0.02	0.02	-13.42	-940.94	-671.56	-282.81	421.06
		282	2.99	1.83e-03	-0.27	-0.27	9.83e-04	0.02	-28.10	-809.89	-574.58	-263.41	358.60
		34	2.80	0.03	-0.27	-0.27	0.03	0.02	61.76	-712.37	-543.35	-107.26	319.81
233	6	341	2.45	17.44	0.23	2.37	15.31	-5.67	16.53	-597.89	-466.02	-115.34	252.25
		360	2.74	18.65	0.63	2.64	16.65	-5.67	-113.66	-704.97	-505.56	-313.06	279.55
		282	2.22	17.99	-1.56	0.26	16.17	-5.67	-156.38	-580.36	-437.33	-299.41	200.46
		34	1.88	16.75	-1.93	-0.01	14.84	-5.67	-21.91	-477.56	-397.78	-101.69	173.16
234	1	112	3.86	4.83e-03	-0.43	-0.43	1.29e-03	0.04	883.11	-2341.86	-1943.89	485.14	1060.69
		283	3.78	-0.03	-0.44	-0.44	-0.03	0.04	452.16	-2571.20	-2053.94	-65.11	1138.56
		284	3.26	0.03	-0.18	-0.17	0.02	0.04	354.82	-2240.27	-1859.28	-26.17	918.46
		73	3.38	0.06	-0.17	-0.16	0.05	0.04	801.13	-2026.28	-1749.23	524.08	840.59
234	6	112	3.28	5.64	-27.08	-12.72	-8.73	16.24	742.32	-1711.84	-1366.75	397.23	853.12
		283	3.69	83.34	1.65	5.02	79.98	16.24	441.33	-1901.49	-1448.52	-11.64	925.23
		284	3.30	83.42	1.99	5.37	80.05	16.24	377.04	-1620.88	-1268.26	24.42	761.68
		73	2.86	5.83	-26.86	-12.37	-8.66	16.24	687.08	-1440.29	-1186.48	433.28	689.58
235	1	149	2.85	0.03	-0.30	-0.29	0.03	-0.04	188.86	-645.54	-555.79	99.11	258.52
		285	2.84	0.07	-0.29	-0.28	0.07	-0.04	324.40	-538.17	-515.30	301.53	138.57
		286	3.88	0.07	-0.30	-0.30	0.07	-0.04	285.35	-858.99	-815.20	241.55	219.54
		94	3.96	0.03	-0.31	-0.30	0.03	-0.04	153.35	-969.91	-855.68	39.13	339.49
235	6	149	2.66	26.67	-1.11	-0.25	25.81	-4.80	261.47	-433.25	-377.12	205.33	189.34
		285	2.77	28.31	-0.73	0.08	27.49	-4.80	312.80	-371.66	-358.30	299.43	94.71
		286	3.44	28.10	-1.64	-0.84	27.31	-4.80	272.31	-615.07	-594.87	252.12	132.34
		94	3.38	26.46	-2.01	-1.18	25.63	-4.80	219.83	-675.50	-613.69	158.02	226.97
236	1	94	4.92	0.03	-0.31	-0.31	0.03	0.01	471.38	-1009.48	-809.27	271.17	506.35
		286	6.97	0.09	-0.29	-0.29	0.09	0.01	938.18	-1202.29	-763.61	499.49	864.03
		283	6.62	0.10	-0.24	-0.24	0.10	0.01	1152.32	-879.91	-316.51	588.91	909.70
		112	4.29	0.04	-0.25	-0.25	0.04	0.01	659.00	-660.58	-362.17	360.59	552.01
236	6	94	4.08	29.30	-1.00	-0.54	28.83	-3.73	395.94	-730.21	-593.46	259.19	367.83
		286	6.02	29.56	-0.95	-0.48	29.10	-3.73	932.69	-807.58	-516.89	642.01	649.13
		283	5.90	29.51	-1.20	-0.74	29.05	-3.73	1121.57	-574.51	-165.27	712.33	725.69
		112	3.73	29.24	-1.26	-0.80	28.78	-3.73	572.14	-484.45	-241.84	329.52	444.39
237	1	34	2.57	0.03	-0.28	-0.27	0.02	-0.05	-7.00	-687.03	-550.59	-143.44	272.33
		282	2.49	-5.45e-04	-0.28	-0.27	-8.13e-03	-0.05	-149.00	-725.39	-580.65	-293.75	249.96
		285	2.41	-6.21e-03	-0.31	-0.30	-0.01	-0.05	-218.70	-722.83	-636.60	-304.94	189.83
		149	2.47	0.02	-0.30	-0.29	0.01	-0.05	-70.60	-690.56	-606.53	-154.63	212.21
237	6	34	1.75	22.82	-0.27	1.28	21.27	-5.78	4.51	-435.34	-386.34	-44.49	138.38
		282	1.67	21.98	-0.50	1.10	20.38	-5.78	-27.38	-431.56	-391.03	-67.91	121.41
		285	1.84	21.34	-2.91	-1.44	19.88	-5.78	-44.16	-465.71	-433.47	-76.40	112.04
		149	1.91	22.19	-2.69	-1.26	20.77	-5.78	-12.95	-468.81	-428.78	-52.98	129.01
238	1	359	5.40	0.08	-0.26	-0.26	0.08	9.04e-03	1319.89	-211.85	1306.76	-198.71	-141.24
		344	5.35	0.10	-0.26	-0.26	0.10	9.04e-03	1580.11	390.70	1450.55	520.25	-370.55
		287	2.91	0.11	-0.21	-0.21	0.11	9.04e-03	891.42	391.42	877.26	405.59	-82.97
		74	3.62	0.09	-0.22	-0.22	0.09	9.04e-03	753.54	-333.45	733.46	-313.37	146.35

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
238	4	359	3.85	0.06	-0.19	-0.19	0.06	7.88e-03	947.74	-140.10	937.56	-129.92	-104.75
		344	3.84	0.08	-0.18	-0.18	0.08	7.88e-03	1135.38	288.08	1040.19	383.26	-267.56
		287	2.10	0.08	-0.15	-0.15	0.08	7.88e-03	644.47	290.53	633.15	301.86	-62.29
		74	2.57	0.06	-0.16	-0.16	0.06	7.88e-03	543.89	-224.71	530.51	-211.33	100.53
239	1	113	4.43	0.02	-0.06	-0.05	0.02	0.02	3336.77	45.50	3334.67	47.60	83.07
		288	4.33	0.02	-0.06	-0.05	0.01	0.02	3390.24	323.89	3389.98	324.15	-28.32
		289	4.00	1.71e-03	-0.13	-0.13	-2.65e-03	0.02	3113.88	266.08	3111.50	268.46	82.30
		50	4.12	4.88e-03	-0.13	-0.13	6.04e-04	0.02	3068.38	-20.29	3056.19	-8.10	193.69
239	6	113	3.65	10.69	-31.24	-17.47	-3.08	19.69	2419.23	-183.93	2417.68	-182.37	-63.60
		288	3.92	85.16	-5.24	-0.72	80.65	19.69	2527.72	303.57	2517.01	314.28	-153.97
		289	3.70	83.10	-13.60	-9.41	78.91	19.69	2292.08	268.11	2291.09	269.10	44.69
		50	3.45	6.91	-37.88	-26.15	-4.82	19.69	2199.28	-235.07	2191.76	-227.55	135.06
240	2	150	6.20	15.43	-0.93	-0.68	15.18	-2.00	1841.88	831.67	1105.29	1568.26	448.94
		290	4.45	29.81	2.07	2.21	29.67	-2.00	1225.05	129.63	885.48	469.20	506.62
		291	3.52	28.95	-2.14	-2.02	28.82	-2.00	1037.99	489.72	1029.67	498.04	67.00
		12	5.67	14.54	-5.12	-4.91	14.34	-2.00	1597.35	1249.24	1249.49	1597.10	9.32
240	6	150	6.20	15.43	-0.93	-0.68	15.18	-2.00	1841.88	831.67	1105.29	1568.26	448.94
		290	4.45	29.81	2.07	2.21	29.67	-2.00	1225.05	129.63	885.48	469.20	506.62
		291	3.52	28.95	-2.14	-2.02	28.82	-2.00	1037.99	489.72	1029.67	498.04	67.00
		12	5.67	14.54	-5.12	-4.91	14.34	-2.00	1597.35	1249.24	1249.49	1597.10	9.32
241	1	12	5.84	0.47	0.01	0.39	0.08	0.17	1793.72	931.00	1449.24	1275.48	422.52
		291	4.30	0.45	-0.05	0.38	0.02	0.17	1320.26	628.06	1319.84	628.48	17.04
		288	2.78	0.11	-0.22	-0.05	-0.07	0.17	851.86	488.23	812.99	527.11	-112.36
		113	4.47	0.15	-0.18	-0.03	-8.68e-04	0.17	1373.43	743.06	942.39	1174.11	293.12
241	6	12	3.83	42.86	0.79	0.79	42.86	0.51	970.98	175.92	966.20	180.69	61.43
		291	4.29	30.14	-1.76	-1.75	30.13	0.51	1257.40	628.11	1089.31	796.20	-278.43
		288	3.19	29.67	-4.14	-4.13	29.66	0.51	844.94	530.77	664.47	711.24	-155.33
		113	2.76	42.39	-1.59	-1.58	42.38	0.51	607.86	29.23	541.37	95.73	184.54
242	1	74	3.69	0.06	-0.22	-0.22	0.06	-0.02	773.00	-332.55	736.86	-296.41	196.61
		287	3.41	0.10	-0.22	-0.22	0.10	-0.02	998.10	216.65	865.91	348.85	292.96
		290	5.11	0.10	-0.19	-0.19	0.10	-0.02	1407.36	96.46	1106.79	397.03	551.07
		150	5.15	0.06	-0.20	-0.20	0.06	-0.02	1127.98	-398.47	977.74	-248.23	454.71
242	6	74	3.00	20.05	-7.80e-03	1.04	19.00	-4.46	565.33	-216.70	534.09	-185.46	153.14
		287	2.77	21.02	0.23	1.24	20.01	-4.46	818.87	282.74	659.59	442.03	245.00
		290	4.48	20.78	-0.73	0.24	19.81	-4.46	1223.63	153.55	889.23	487.95	495.99
		150	4.47	19.81	-0.97	0.04	18.80	-4.46	918.15	-293.96	763.73	-139.54	404.14
243	2	343	4.23	6.37	3.83	5.13	5.07	-1.27	1251.71	805.15	833.25	1223.61	108.43
		362	2.53	18.42	7.62	7.77	18.27	-1.27	720.68	230.02	648.89	301.81	173.41
		292	2.98	17.07	1.17	1.27	16.97	-1.27	881.10	264.54	811.34	334.30	-195.31
		35	4.69	4.06	-1.67	-1.37	3.77	-1.27	1416.94	834.86	995.70	1256.10	-260.29
243	6	343	4.23	6.37	3.83	5.13	5.07	-1.27	1251.71	805.15	833.25	1223.61	108.43
		362	2.53	18.42	7.62	7.77	18.27	-1.27	720.68	230.02	648.89	301.81	173.41
		292	2.98	17.07	1.17	1.27	16.97	-1.27	881.10	264.54	811.34	334.30	-195.31
		35	4.69	4.06	-1.67	-1.37	3.77	-1.27	1416.94	834.86	995.70	1256.10	-260.29
244	1	114	2.64	0.02	-0.03	3.60e-05	-3.82e-03	0.02	1992.03	41.50	1982.24	51.29	137.80
		293	2.62	0.03	-0.02	2.86e-03	0.01	0.02	2014.45	107.75	1997.02	125.18	181.46
		294	2.77	0.03	-0.02	2.95e-04	9.76e-03	0.02	2128.64	124.54	2106.17	147.01	211.02
		76	2.78	0.02	-0.03	-2.52e-03	-4.33e-03	0.02	2105.18	59.33	2091.39	73.12	167.36
244	6	114	2.04	3.22	-33.77	-22.60	-7.95	16.99	1387.72	100.81	1367.05	121.48	161.77
		293	2.57	84.12	-8.08	-4.84	80.88	16.99	1405.46	109.73	1371.49	143.70	207.04
		294	2.77	82.59	-14.68	-11.62	79.52	16.99	1519.12	131.87	1484.66	166.33	215.93
		76	2.27	0.39	-39.07	-29.38	-9.31	16.99	1501.67	122.66	1480.21	144.11	170.66
245	1	151	2.45	0.02	-0.02	-0.02	0.02	2.72e-03	706.28	127.66	696.71	137.23	-73.80
		295	2.83	0.04	-0.01	-0.01	0.04	2.72e-03	862.43	325.33	755.68	432.08	-214.33
		296	1.57	0.04	0.01	0.01	0.04	2.72e-03	481.79	284.36	404.33	361.81	-96.40
		95	1.22	0.02	8.20e-03	8.72e-03	0.02	2.72e-03	352.20	60.13	345.36	66.96	44.14
245	4	151	1.74	0.01	-0.01	-0.01	0.01	2.71e-03	511.51	114.64	503.53	122.62	-55.71
		295	2.06	0.03	-9.94e-03	-9.74e-03	0.03	2.71e-03	630.18	251.30	546.08	335.39	-157.45
		296	1.18	0.03	7.93e-03	8.24e-03	0.03	2.71e-03	360.56	215.69	291.73	284.52	-72.34
		95	0.85	0.02	4.61e-03	5.24e-03	0.02	2.71e-03	253.92	67.00	249.17	71.75	29.40
246	2	95	1.37	30.24	-5.17	-5.02	30.09	-2.33	233.96	184.21	200.54	217.63	23.36
		296	2.41	30.08	-5.20	-5.05	29.92	-2.33	548.20	196.81	255.01	490.00	130.63
		293	2.57	29.76	-6.77	-6.62	29.61	-2.33	648.77	257.14	389.09	516.82	185.10
		114	1.52	29.92	-6.74	-6.59	29.77	-2.33	379.48	199.58	334.62	244.45	77.84
246	5	95	1.76	30.24	-5.18	-5.02	30.09	-2.33	288.80	79.04	80.90	286.94	-19.67
		296	2.64	30.08	-5.21	-5.06	29.92	-2.33	555.89	112.67	131.02	537.54	88.30
		293	2.67	29.75	-6.78	-6.63	29.61	-2.33	618.83	211.68	265.98	564.53	138.42
		114	1.70	29.92	-6.75	-6.60	29.77	-2.33	322.62	207.18	215.86	313.93	30.45
247	2	35	3.36	33.17	4.44	4.50	33.11	-1.27	836.31	16.91	762.60	90.61	-234.44
		292	4.01	20.17	1.80	1.89	20.08	-1.27	1152.41	371.97	874.46	649.91	-373.72
		295	2.57	18.82	-4.84	-4.77	18.75	-1.27	705.67	400.85	526.25	580.27	-150.00
		151	2.06	31.82	-2.21	-2.17	31.78	-1.27	414.68	20.67	414.39	20.97	-10.71
247	6	35	3.36	33.17	4.44	4.50	33.11	-1.27	836.31	16.91	762.60	90.61	-234.44
		292	4.01	20.17	1.80	1.89	20.08	-1.27	1152.41	371.97	874.46	649.91	-373.72

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		295	2.57	18.82	-4.84	-4.77	18.75	-1.27	705.67	400.85	526.25	580.27	-150.00
		151	2.06	31.82	-2.21	-2.17	31.78	-1.27	414.68	20.67	414.39	20.97	-10.71
248	1	361	1.37	0.08	0.01	0.01	0.08	-3.23e-03	403.12	96.19	288.07	211.24	-148.58
		346	2.35	0.05	5.88e-03	6.11e-03	0.05	-3.23e-03	688.06	148.02	344.20	491.88	-259.73
		297	1.80	0.06	0.04	0.04	0.06	-3.23e-03	487.90	14.74	66.33	436.31	-147.47
		77	0.61	0.08	0.05	0.05	0.08	-3.23e-03	164.23	1.64	10.20	155.66	-36.32
248	4	361	0.99	0.06	8.46e-03	8.56e-03	0.06	-2.11e-03	294.81	77.36	207.85	164.31	-106.52
		346	1.70	0.04	4.83e-03	4.96e-03	0.04	-2.11e-03	499.70	111.48	247.69	363.49	-185.27
		297	1.32	0.04	0.03	0.03	0.04	-2.11e-03	360.17	14.78	50.82	324.12	-105.60
		77	0.48	0.06	0.03	0.03	0.06	-2.11e-03	130.95	4.98	10.99	124.94	-26.85
249	2	115	2.35	10.06	-37.45	-24.97	-2.42	20.91	1145.10	-334.81	1078.45	-268.16	-306.91
		298	2.61	85.51	-12.98	-8.32	80.85	20.91	1307.64	170.99	1189.84	288.79	-346.44
		299	2.44	82.44	-25.63	-21.42	78.23	20.91	1109.20	250.82	1091.00	269.02	-123.66
		52	2.18	5.09	-48.20	-38.07	-5.04	20.91	985.17	-293.49	979.61	-287.93	-84.12
249	6	115	2.35	10.06	-37.45	-24.97	-2.42	20.91	1145.10	-334.81	1078.45	-268.16	-306.91
		298	2.61	85.51	-12.98	-8.32	80.85	20.91	1307.64	170.99	1189.84	288.79	-346.44
		299	2.44	82.44	-25.63	-21.42	78.23	20.91	1109.20	250.82	1091.00	269.02	-123.66
		52	2.18	5.09	-48.20	-38.07	-5.04	20.91	985.17	-293.49	979.61	-287.93	-84.12
250	2	152	4.47	15.54	-1.67	-1.64	15.51	0.71	1247.70	460.15	475.46	1232.39	108.71
		300	2.12	29.85	1.20	1.22	29.83	0.71	497.61	123.76	294.38	327.00	186.21
		301	2.22	28.49	-5.62	-5.60	28.47	0.71	613.22	240.65	488.13	365.75	-175.95
		28	4.73	14.17	-8.49	-8.47	14.14	0.71	1363.64	576.71	669.21	1271.14	-253.45
250	6	152	4.47	15.54	-1.67	-1.64	15.51	0.71	1247.70	460.15	475.46	1232.39	108.71
		300	2.12	29.85	1.20	1.22	29.83	0.71	497.61	123.76	294.38	327.00	186.21
		301	2.22	28.49	-5.62	-5.60	28.47	0.71	613.22	240.65	488.13	365.75	-175.95
		28	4.73	14.17	-8.49	-8.47	14.14	0.71	1363.64	576.71	669.21	1271.14	-253.45
251	2	28	3.57	43.15	-2.86	-2.70	42.99	2.74	454.71	-370.36	359.87	-275.53	-263.15
		301	3.70	30.34	-5.48	-5.27	30.13	2.74	990.18	169.67	539.12	620.72	-408.22
		298	2.90	29.63	-8.93	-8.73	29.44	2.74	726.61	215.64	357.79	584.46	-228.97
		115	2.81	42.45	-6.32	-6.16	42.29	2.74	192.50	-325.75	178.54	-311.79	-83.90
251	6	28	3.57	43.15	-2.86	-2.70	42.99	2.74	454.71	-370.36	359.87	-275.53	-263.15
		301	3.70	30.34	-5.48	-5.27	30.13	2.74	990.18	169.67	539.12	620.72	-408.22
		298	2.90	29.63	-8.93	-8.73	29.44	2.74	726.61	215.64	357.79	584.46	-228.97
		115	2.81	42.45	-6.32	-6.16	42.29	2.74	192.50	-325.75	178.54	-311.79	-83.90
252	2	77	0.87	19.58	1.65	1.82	19.41	-1.72	107.49	-12.75	3.21	91.53	-40.79
		297	2.13	20.29	1.80	1.96	20.13	-1.72	476.33	68.99	78.31	467.01	60.90
		300	2.47	19.71	-0.97	-0.83	19.57	-1.72	655.74	194.67	332.55	517.86	211.09
		152	1.24	19.00	-1.12	-0.97	18.85	-1.72	323.52	76.31	257.45	142.37	109.40
252	6	77	0.87	19.58	1.65	1.82	19.41	-1.72	107.49	-12.75	3.21	91.53	-40.79
		297	2.13	20.29	1.80	1.96	20.13	-1.72	476.33	68.99	78.31	467.01	60.90
		300	2.47	19.71	-0.97	-0.83	19.57	-1.72	655.74	194.67	332.55	517.86	211.09
		152	1.24	19.00	-1.12	-0.97	18.85	-1.72	323.52	76.31	257.45	142.37	109.40
253	2	345	3.79	7.65	4.30	6.71	5.23	1.50	1085.42	248.64	262.45	1071.60	106.63
		364	1.44	18.64	9.10	9.34	18.40	1.50	283.87	-50.20	79.06	154.61	162.71
		302	1.61	16.96	1.29	1.43	16.82	1.50	405.85	-3.96	219.24	182.65	-204.09
		36	4.04	4.08	-1.63	-1.20	3.65	1.50	1186.04	316.24	402.64	1099.64	-260.16
253	6	345	3.79	7.65	4.30	6.71	5.23	1.50	1085.42	248.64	262.45	1071.60	106.63
		364	1.44	18.64	9.10	9.34	18.40	1.50	283.87	-50.20	79.06	154.61	162.71
		302	1.61	16.96	1.29	1.43	16.82	1.50	405.85	-3.96	219.24	182.65	-204.09
		36	4.04	4.08	-1.63	-1.20	3.65	1.50	1186.04	316.24	402.64	1099.64	-260.16
254	2	116	0.94	3.17	-37.97	-27.26	-7.54	18.05	204.44	-134.10	-75.75	146.09	127.86
		303	1.77	84.36	-13.04	-9.57	80.89	18.05	244.50	-172.07	-75.40	147.84	175.85
		304	1.76	82.34	-21.74	-18.51	79.11	18.05	295.87	-79.46	44.58	171.83	176.55
		79	0.93	-0.26	-45.26	-36.19	-9.33	18.05	250.29	-35.97	44.23	170.09	128.56
254	6	116	0.94	3.17	-37.97	-27.26	-7.54	18.05	204.44	-134.10	-75.75	146.09	127.86
		303	1.77	84.36	-13.04	-9.57	80.89	18.05	244.50	-172.07	-75.40	147.84	175.85
		304	1.76	82.34	-21.74	-18.51	79.11	18.05	295.87	-79.46	44.58	171.83	176.55
		79	0.93	-0.26	-45.26	-36.19	-9.33	18.05	250.29	-35.97	44.23	170.09	128.56
255	2	153	1.83	29.01	-3.54	-3.54	29.01	-0.21	285.40	1.76	6.68	280.49	-37.01
		305	1.97	28.93	-3.56	-3.56	28.93	-0.21	325.73	-28.26	8.40	289.08	-107.85
		306	2.29	28.14	-7.56	-7.56	28.13	-0.21	278.06	-193.10	-168.70	253.66	-104.41
		96	2.17	28.21	-7.54	-7.54	28.21	-0.21	247.76	-173.11	-170.42	245.07	-33.57
255	5	153	2.21	29.00	-3.55	-3.55	29.00	-0.20	385.51	1.95	2.07	385.39	-6.65
		305	2.01	28.92	-3.57	-3.56	28.92	-0.20	324.47	-20.29	-11.81	315.99	-53.40
		306	2.28	28.12	-7.57	-7.57	28.12	-0.20	307.71	-143.79	-128.70	292.62	-81.16
		96	2.44	28.20	-7.55	-7.55	28.20	-0.20	364.48	-117.29	-114.82	362.01	-34.41
256	2	96	2.15	30.20	-7.14	-7.14	30.20	-0.17	226.92	-178.20	-174.74	223.46	-37.31
		306	3.16	29.89	-7.20	-7.20	29.89	-0.17	545.41	-139.61	-115.22	521.02	126.93
		303	3.04	29.43	-9.49	-9.49	29.43	-0.17	626.84	25.32	90.08	562.08	186.44
		116	1.80	29.74	-9.43	-9.42	29.74	-0.17	266.61	28.48	30.57	264.52	22.20
256	6	96	2.15	30.20	-7.14	-7.14	30.20	-0.17	226.92	-178.20	-174.74	223.46	-37.31
		306	3.16	29.89	-7.20	-7.20	29.89	-0.17	545.41	-139.61	-115.22	521.02	126.93
		303	3.04	29.43	-9.49	-9.49	29.43	-0.17	626.84	25.32	90.08	562.08	186.44
		116	1.80	29.74	-9.43	-9.42	29.74	-0.17	266.61	28.48	30.57	264.52	22.20

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
257	2	36	2.21	33.18	4.61	4.69	33.10	1.52	344.74	-218.00	173.38	-46.65	-258.97
		302	3.06	20.26	1.97	2.09	20.13	1.52	767.58	22.34	283.91	506.00	-355.69
		305	2.32	18.68	-5.72	-5.63	18.59	1.52	497.45	2.30	42.11	457.64	-134.63
		153	1.11	31.62	-3.10	-3.03	31.56	1.52	-41.55	-121.89	-68.42	-95.01	-37.91
257	6	36	2.21	33.18	4.61	4.69	33.10	1.52	344.74	-218.00	173.38	-46.65	-258.97
		302	3.06	20.26	1.97	2.09	20.13	1.52	767.58	22.34	283.91	506.00	-355.69
		305	2.32	18.68	-5.72	-5.63	18.59	1.52	497.45	2.30	42.11	457.64	-134.63
		153	1.11	31.62	-3.10	-3.03	31.56	1.52	-41.55	-121.89	-68.42	-95.01	-37.91
258	1	363	1.04	0.10	-0.01	-0.01	0.10	5.65e-03	236.55	-67.34	32.81	136.39	-142.85
		348	2.37	0.07	-0.02	-0.02	0.07	5.65e-03	612.06	-36.84	100.48	474.74	-265.05
		307	2.21	0.07	-3.53e-03	-3.09e-03	0.07	5.65e-03	439.73	-231.11	-205.02	413.64	-129.71
		80	1.19	0.11	4.11e-03	4.42e-03	0.11	5.65e-03	75.45	-272.85	-272.69	75.29	-7.51
258	4	363	0.76	0.08	-9.25e-03	-9.07e-03	0.08	3.93e-03	178.07	-42.80	24.78	110.48	-101.78
		348	1.72	0.05	-0.01	-0.01	0.05	3.93e-03	446.66	-22.35	72.96	351.36	-188.72
		307	1.62	0.05	-2.93e-03	-2.64e-03	0.05	3.93e-03	326.03	-162.53	-144.39	307.89	-92.37
		80	0.88	0.08	2.65e-03	2.85e-03	0.08	3.93e-03	67.13	-192.68	-192.56	67.01	-5.43
259	2	117	1.43	10.56	-39.58	-26.80	-2.22	21.85	305.47	-360.77	171.60	-226.90	-266.96
		308	1.76	85.68	-15.20	-10.22	80.70	21.85	574.59	-46.70	268.80	259.09	-310.61
		309	1.58	82.47	-28.34	-23.85	77.97	21.85	320.99	75.96	159.68	237.27	-116.21
		54	1.12	5.46	-50.84	-40.43	-4.94	21.85	78.57	-264.81	62.48	-248.73	-72.56
259	6	117	1.43	10.56	-39.58	-26.80	-2.22	21.85	305.47	-360.77	171.60	-226.90	-266.96
		308	1.76	85.68	-15.20	-10.22	80.70	21.85	574.59	-46.70	268.80	259.09	-310.61
		309	1.58	82.47	-28.34	-23.85	77.97	21.85	320.99	75.96	159.68	237.27	-116.21
		54	1.12	5.46	-50.84	-40.43	-4.94	21.85	78.57	-264.81	62.48	-248.73	-72.56
260	2	154	4.72	16.13	-2.47	-1.92	15.58	3.15	1259.15	270.42	293.27	1236.30	148.54
		310	2.38	30.00	0.55	0.89	29.66	3.15	461.27	-36.96	109.06	315.25	226.78
		311	1.93	28.45	-6.86	-6.58	28.17	3.15	473.32	185.70	304.65	354.37	-141.64
		20	4.73	14.50	-9.81	-9.39	14.09	3.15	1332.71	431.57	488.86	1275.42	-219.88
260	6	154	4.72	16.13	-2.47	-1.92	15.58	3.15	1259.15	270.42	293.27	1236.30	148.54
		310	2.38	30.00	0.55	0.89	29.66	3.15	461.27	-36.96	109.06	315.25	226.78
		311	1.93	28.45	-6.86	-6.58	28.17	3.15	473.32	185.70	304.65	354.37	-141.64
		20	4.73	14.50	-9.81	-9.39	14.09	3.15	1332.71	431.57	488.86	1275.42	-219.88
261	2	20	2.93	43.44	-4.08	-3.61	42.98	4.66	278.19	-327.01	186.68	-235.50	-216.81
		311	3.46	30.60	-6.80	-6.21	30.01	4.66	877.81	89.14	355.97	610.98	-373.15
		308	2.94	29.82	-10.43	-9.88	29.28	4.66	655.81	76.64	160.55	571.90	-203.86
		117	2.22	42.68	-7.72	-7.29	42.25	4.66	-0.51	-282.82	-8.75	-274.59	-47.52
261	6	20	2.93	43.44	-4.08	-3.61	42.98	4.66	278.19	-327.01	186.68	-235.50	-216.81
		311	3.46	30.60	-6.80	-6.21	30.01	4.66	877.81	89.14	355.97	610.98	-373.15
		308	2.94	29.82	-10.43	-9.88	29.28	4.66	655.81	76.64	160.55	571.90	-203.86
		117	2.22	42.68	-7.72	-7.29	42.25	4.66	-0.51	-282.82	-8.75	-274.59	-47.52
262	2	80	1.17	19.43	1.95	2.01	19.37	1.06	46.99	-199.85	-198.74	45.88	-16.53
		307	2.48	19.96	2.06	2.12	19.90	1.06	463.41	-131.68	-117.97	449.70	89.27
		310	2.73	19.29	-1.25	-1.19	19.24	1.06	632.13	17.00	146.53	502.60	250.80
		154	1.24	18.76	-1.36	-1.30	18.70	1.06	228.20	-63.66	65.76	98.78	145.00
262	6	80	1.17	19.43	1.95	2.01	19.37	1.06	46.99	-199.85	-198.74	45.88	-16.53
		307	2.48	19.96	2.06	2.12	19.90	1.06	463.41	-131.68	-117.97	449.70	89.27
		310	2.73	19.29	-1.25	-1.19	19.24	1.06	632.13	17.00	146.53	502.60	250.80
		154	1.24	18.76	-1.36	-1.30	18.70	1.06	228.20	-63.66	65.76	98.78	145.00
263	2	347	4.00	10.12	1.19	6.56	4.74	4.37	1128.80	219.11	237.22	1110.69	127.05
		366	1.71	19.47	7.28	9.14	17.61	4.37	310.78	-87.30	49.81	173.67	189.16
		312	1.53	17.38	0.60	1.83	16.15	4.37	390.56	19.26	205.09	204.73	-185.65
		37	4.10	6.09	-3.54	-0.74	3.28	4.37	1216.27	317.98	392.49	1141.75	-247.76
263	6	347	4.00	10.12	1.19	6.56	4.74	4.37	1128.80	219.11	237.22	1110.69	127.05
		366	1.71	19.47	7.28	9.14	17.61	4.37	310.78	-87.30	49.81	173.67	189.16
		312	1.53	17.38	0.60	1.83	16.15	4.37	390.56	19.26	205.09	204.73	-185.65
		37	4.10	6.09	-3.54	-0.74	3.28	4.37	1216.27	317.98	392.49	1141.75	-247.76
264	2	118	1.36	4.04	-38.05	-26.51	-7.50	18.78	188.77	-508.78	-481.36	161.35	135.54
		313	2.09	84.37	-12.67	-8.89	80.59	18.78	171.52	-540.84	-489.58	120.26	184.09
		314	2.06	82.45	-20.82	-17.28	78.91	18.78	194.48	-418.16	-368.21	144.53	167.65
		82	1.31	0.72	-44.80	-34.90	-9.18	18.78	210.49	-384.86	-359.99	185.63	119.11
264	6	118	1.36	4.04	-38.05	-26.51	-7.50	18.78	188.77	-508.78	-481.36	161.35	135.54
		313	2.09	84.37	-12.67	-8.89	80.59	18.78	171.52	-540.84	-489.58	120.26	184.09
		314	2.06	82.45	-20.82	-17.28	78.91	18.78	194.48	-418.16	-368.21	144.53	167.65
		82	1.31	0.72	-44.80	-34.90	-9.18	18.78	210.49	-384.86	-359.99	185.63	119.11
265	2	155	1.88	28.87	-3.00	-2.89	28.76	1.85	278.87	-42.75	-39.21	275.33	-33.57
		315	2.04	28.39	-3.09	-2.99	28.29	1.85	330.67	-73.41	-35.69	292.94	-117.56
		316	2.46	27.55	-7.25	-7.15	27.45	1.85	274.43	-269.13	-245.65	250.95	-110.51
		97	2.34	28.02	-7.15	-7.05	27.93	1.85	234.79	-250.63	-249.17	233.34	-26.53
265	5	155	2.22	28.85	-2.99	-2.89	28.74	1.84	376.43	-28.06	-28.00	376.37	-5.00
		315	2.03	28.38	-3.09	-2.98	28.27	1.84	323.03	-50.50	-40.64	313.17	-59.87
		316	2.35	27.54	-7.25	-7.15	27.44	1.84	300.88	-192.96	-177.81	285.74	-85.15
		97	2.50	28.01	-7.15	-7.06	27.91	1.84	350.71	-166.95	-165.17	348.94	-30.28
266	2	97	2.33	30.16	-6.67	-6.62	30.11	1.37	215.66	-254.31	-252.97	214.32	-25.04
		316	3.31	29.55	-6.79	-6.74	29.50	1.37	530.39	-217.92	-194.45	506.93	130.41

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		313	3.17	29.07	-9.17	-9.12	29.02	1.37	604.80	-59.15	-0.14	545.79	188.94
		118	1.97	29.68	-9.05	-9.00	29.63	1.37	256.74	-62.21	-58.66	253.19	33.48
266	6	97	2.33	30.16	-6.67	-6.62	30.11	1.37	215.66	-254.31	-252.97	214.32	-25.04
		316	3.31	29.55	-6.79	-6.74	29.50	1.37	530.39	-217.92	-194.45	506.93	130.41
		313	3.17	29.07	-9.17	-9.12	29.02	1.37	604.80	-59.15	-0.14	545.79	188.94
		118	1.97	29.68	-9.05	-9.00	29.63	1.37	256.74	-62.21	-58.66	253.19	33.48
267	2	37	2.12	33.24	4.52	5.13	32.63	4.14	340.53	-180.17	163.51	-3.16	-246.65
		312	3.01	20.26	1.50	2.46	19.29	4.14	775.81	21.63	269.69	527.75	-354.33
		315	2.40	18.51	-5.81	-5.09	17.78	4.14	513.22	-38.80	0.51	473.91	-141.97
		155	0.96	31.62	-2.92	-2.42	31.12	4.14	-39.28	-123.39	-105.67	-56.99	-34.29
267	6	37	2.12	33.24	4.52	5.13	32.63	4.14	340.53	-180.17	163.51	-3.16	-246.65
		312	3.01	20.26	1.50	2.46	19.29	4.14	775.81	21.63	269.69	527.75	-354.33
		315	2.40	18.51	-5.81	-5.09	17.78	4.14	513.22	-38.80	0.51	473.91	-141.97
		155	0.96	31.62	-2.92	-2.42	31.12	4.14	-39.28	-123.39	-105.67	-56.99	-34.29
268	1	365	0.90	0.11	-0.03	-0.03	0.11	0.01	212.89	-45.33	34.57	133.00	-119.36
		350	2.20	0.07	-0.04	-0.04	0.07	0.01	573.37	-27.30	97.66	448.42	-243.81
		317	2.12	0.07	-0.03	-0.03	0.07	0.01	408.45	-235.71	-213.46	386.19	-117.64
		83	1.20	0.11	-0.02	-0.02	0.11	0.01	70.91	-276.68	-276.54	70.77	6.81
268	4	365	0.67	0.08	-0.02	-0.02	0.08	9.07e-03	161.62	-27.98	25.71	107.93	-85.42
		350	1.60	0.05	-0.03	-0.03	0.05	9.07e-03	419.36	-16.32	70.61	332.44	-174.11
		317	1.55	0.05	-0.02	-0.02	0.05	9.07e-03	303.72	-166.76	-151.13	288.09	-84.31
		83	0.88	0.08	-0.01	-0.01	0.08	9.07e-03	63.66	-196.11	-196.03	63.59	4.38
269	2	119	1.45	11.24	-37.42	-23.81	-2.37	21.84	264.60	-439.38	52.82	-227.60	-322.86
		318	1.76	85.48	-12.41	-7.27	80.34	21.84	574.31	-169.17	149.47	255.66	-367.93
		319	1.63	82.16	-25.84	-21.23	77.55	21.84	335.29	-65.37	36.79	233.13	-174.63
		56	1.08	5.79	-48.72	-37.77	-5.16	21.84	5.73	-315.73	-59.86	-250.14	-129.55
269	6	119	1.45	11.24	-37.42	-23.81	-2.37	21.84	264.60	-439.38	52.82	-227.60	-322.86
		318	1.76	85.48	-12.41	-7.27	80.34	21.84	574.31	-169.17	149.47	255.66	-367.93
		319	1.63	82.16	-25.84	-21.23	77.55	21.84	335.29	-65.37	36.79	233.13	-174.63
		56	1.08	5.79	-48.72	-37.77	-5.16	21.84	5.73	-315.73	-59.86	-250.14	-129.55
270	2	156	4.73	16.15	-0.69	0.63	14.83	4.53	1267.75	269.67	287.95	1249.48	133.82
		320	2.31	29.01	2.51	3.30	28.21	4.53	444.36	-28.64	101.00	314.73	210.98
		321	1.93	27.30	-5.14	-4.50	26.65	4.53	489.21	158.00	293.90	353.31	-162.92
		16	4.77	14.23	-8.13	-7.17	13.27	4.53	1354.06	414.84	480.85	1288.06	-240.08
270	6	156	4.73	16.15	-0.69	0.63	14.83	4.53	1267.75	269.67	287.95	1249.48	133.82
		320	2.31	29.01	2.51	3.30	28.21	4.53	444.36	-28.64	101.00	314.73	210.98
		321	1.93	27.30	-5.14	-4.50	26.65	4.53	489.21	158.00	293.90	353.31	-162.92
		16	4.77	14.23	-8.13	-7.17	13.27	4.53	1354.06	414.84	480.85	1288.06	-240.08
271	2	16	2.95	43.13	-1.92	-1.32	42.53	5.16	293.83	-337.85	178.70	-222.71	-243.87
		321	3.60	29.70	-4.84	-4.05	28.91	5.16	913.64	46.31	346.02	613.92	-412.46
		318	3.03	28.77	-9.04	-8.33	28.05	5.16	681.74	25.32	135.28	571.78	-245.13
		119	2.17	42.24	-6.16	-5.60	41.68	5.16	-9.14	-287.77	-32.05	-264.86	-76.54
271	6	16	2.95	43.13	-1.92	-1.32	42.53	5.16	293.83	-337.85	178.70	-222.71	-243.87
		321	3.60	29.70	-4.84	-4.05	28.91	5.16	913.64	46.31	346.02	613.92	-412.46
		318	3.03	28.77	-9.04	-8.33	28.05	5.16	681.74	25.32	135.28	571.78	-245.13
		119	2.17	42.24	-6.16	-5.60	41.68	5.16	-9.14	-287.77	-32.05	-264.86	-76.54
272	2	83	1.11	19.15	2.57	3.44	18.28	3.71	45.44	-201.52	-199.88	43.80	-20.06
		317	2.40	19.34	2.61	3.48	18.47	3.71	447.03	-133.67	-121.64	435.00	82.73
		320	2.68	18.81	0.48	1.27	18.02	3.71	607.57	14.16	135.33	486.39	239.21
		156	1.27	18.63	0.44	1.23	17.83	3.71	213.89	-61.61	57.09	95.19	136.42
272	6	83	1.11	19.15	2.57	3.44	18.28	3.71	45.44	-201.52	-199.88	43.80	-20.06
		317	2.40	19.34	2.61	3.48	18.47	3.71	447.03	-133.67	-121.64	435.00	82.73
		320	2.68	18.81	0.48	1.27	18.02	3.71	607.57	14.16	135.33	486.39	239.21
		156	1.27	18.63	0.44	1.23	17.83	3.71	213.89	-61.61	57.09	95.19	136.42
273	2	349	3.91	13.17	-3.88	4.47	4.82	8.52	1088.46	225.26	246.20	1067.53	132.78
		368	1.80	25.42	3.65	7.77	21.30	8.52	268.28	-121.81	51.65	94.82	193.85
		322	1.77	24.28	0.73	4.38	20.62	8.52	364.03	-34.35	204.33	125.35	-195.24
		38	4.06	11.27	-6.05	1.08	4.14	8.52	1181.95	314.98	398.87	1098.07	-256.30
273	6	349	3.91	13.17	-3.88	4.47	4.82	8.52	1088.46	225.26	246.20	1067.53	132.78
		368	1.80	25.42	3.65	7.77	21.30	8.52	268.28	-121.81	51.65	94.82	193.85
		322	1.77	24.28	0.73	4.38	20.62	8.52	364.03	-34.35	204.33	125.35	-195.24
		38	4.06	11.27	-6.05	1.08	4.14	8.52	1181.95	314.98	398.87	1098.07	-256.30
274	2	120	1.24	4.34	-30.14	-18.49	-7.31	16.31	170.11	-576.25	-569.86	163.72	68.77
		323	2.02	85.05	-3.74	-0.64	81.95	16.31	142.14	-596.28	-577.86	123.72	115.16
		324	2.11	80.22	-24.86	-22.26	77.62	16.31	162.65	-477.64	-461.90	146.91	99.15
		6	1.36	-4.23	-47.52	-40.11	-11.64	16.31	191.23	-458.22	-453.90	186.91	52.77
274	6	120	1.24	4.34	-30.14	-18.49	-7.31	16.31	170.11	-576.25	-569.86	163.72	68.77
		323	2.02	85.05	-3.74	-0.64	81.95	16.31	142.14	-596.28	-577.86	123.72	115.16
		324	2.11	80.22	-24.86	-22.26	77.62	16.31	162.65	-477.64	-461.90	146.91	99.15
		6	1.36	-4.23	-47.52	-40.11	-11.64	16.31	191.23	-458.22	-453.90	186.91	52.77
275	2	157	1.74	28.09	2.18	2.96	27.31	4.42	281.12	-56.11	-41.58	266.60	-68.47
		325	1.97	28.43	2.26	3.03	27.66	4.42	345.84	-100.85	-38.25	283.24	-155.06
		326	2.33	27.93	0.06	0.78	27.21	4.42	281.05	-295.82	-254.72	239.95	-148.40
		98	2.16	27.59	-0.02	0.71	26.86	4.42	231.11	-265.86	-258.05	223.30	-61.81

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
275	5	157	2.13	28.08	2.19	2.97	27.30	4.42	376.78	-48.33	-45.39	373.83	-35.25
		325	2.00	28.42	2.27	3.04	27.65	4.42	340.10	-77.03	-56.28	319.35	-90.69
		326	2.28	27.92	0.06	0.77	27.20	4.42	316.38	-219.62	-194.87	291.63	-112.48
		98	2.38	27.58	-0.02	0.70	26.85	4.42	352.18	-190.04	-183.97	346.11	-57.05
276	2	98	2.22	29.30	1.19	1.19	29.30	0.28	225.26	-269.91	-259.70	215.05	-70.38
		326	3.08	25.74	0.48	0.48	25.73	0.28	530.77	-205.82	-198.10	523.04	75.02
		323	2.95	24.59	-5.25	-5.25	24.59	0.28	590.17	-47.12	-16.35	559.39	136.62
		120	1.88	28.15	-4.54	-4.54	28.15	0.28	251.64	-78.18	-77.95	251.40	-8.78
276	6	98	2.22	29.30	1.19	1.19	29.30	0.28	225.26	-269.91	-259.70	215.05	-70.38
		326	3.08	25.74	0.48	0.48	25.73	0.28	530.77	-205.82	-198.10	523.04	75.02
		323	2.95	24.59	-5.25	-5.25	24.59	0.28	590.17	-47.12	-16.35	559.39	136.62
		120	1.88	28.15	-4.54	-4.54	28.15	0.28	251.64	-78.18	-77.95	251.40	-8.78
277	2	38	2.43	34.53	3.86	6.61	31.78	8.76	354.30	-213.31	172.88	-31.89	-264.70
		322	3.04	26.02	1.13	4.74	22.42	8.76	766.15	-17.70	274.12	474.33	-378.93
		325	2.24	25.14	-1.43	1.87	21.85	8.76	480.49	-74.74	-11.46	417.21	-176.44
		157	1.24	33.76	1.18	3.74	31.20	8.76	-37.52	-164.18	-112.70	-89.00	-62.21
277	6	38	2.43	34.53	3.86	6.61	31.78	8.76	354.30	-213.31	172.88	-31.89	-264.70
		322	3.04	26.02	1.13	4.74	22.42	8.76	766.15	-17.70	274.12	474.33	-378.93
		325	2.24	25.14	-1.43	1.87	21.85	8.76	480.49	-74.74	-11.46	417.21	-176.44
		157	1.24	33.76	1.18	3.74	31.20	8.76	-37.52	-164.18	-112.70	-89.00	-62.21
278	2	99	0.72	2.39	-39.25	-29.09	-7.77	17.88	182.20	-29.12	-29.12	182.20	0.10
		327	1.64	84.26	-14.69	-11.35	80.91	17.88	166.11	-44.61	-34.38	155.88	45.28
		328	1.64	81.64	-26.05	-22.99	78.59	17.88	189.38	67.68	78.58	178.47	34.76
		61	0.79	-1.87	-48.96	-40.73	-10.10	17.88	205.68	82.95	83.84	204.79	-10.43
278	6	99	0.72	2.39	-39.25	-29.09	-7.77	17.88	182.20	-29.12	-29.12	182.20	0.10
		327	1.64	84.26	-14.69	-11.35	80.91	17.88	166.11	-44.61	-34.38	155.88	45.28
		328	1.64	81.64	-26.05	-22.99	78.59	17.88	189.38	67.68	78.58	178.47	34.76
		61	0.79	-1.87	-48.96	-40.73	-10.10	17.88	205.68	82.95	83.84	204.79	-10.43
279	2	141	2.07	27.79	-2.61	-2.54	27.72	-1.40	368.29	7.80	23.57	352.52	-73.74
		329	2.17	28.37	-2.49	-2.43	28.31	-1.40	383.82	-37.80	18.56	327.46	-143.47
		330	2.50	27.29	-7.88	-7.82	27.23	-1.40	340.11	-203.29	-155.78	292.59	-153.50
		90	2.41	26.70	-8.00	-7.94	26.64	-1.40	332.17	-165.30	-150.77	317.65	-83.76
279	5	141	2.34	27.77	-2.62	-2.56	27.70	-1.41	438.94	15.36	18.53	435.78	-36.47
		329	2.11	28.36	-2.50	-2.44	28.29	-1.41	362.33	-17.55	0.27	344.50	-80.34
		330	2.40	27.27	-7.90	-7.84	27.21	-1.41	352.15	-138.97	-109.38	322.57	-116.85
		90	2.59	26.68	-8.02	-7.96	26.62	-1.41	424.18	-101.47	-91.13	413.84	-72.98
280	2	90	2.41	29.23	-7.44	-7.43	29.21	-0.74	310.04	-185.44	-157.82	282.42	-113.67
		330	3.18	29.26	-7.44	-7.42	29.24	-0.74	566.42	-106.11	-101.87	562.17	53.28
		327	2.99	28.59	-10.73	-10.72	28.58	-0.74	626.86	83.89	106.83	603.91	109.23
		99	2.01	28.56	-10.74	-10.73	28.55	-0.74	335.85	39.19	50.88	324.16	-57.72
280	6	90	2.41	29.23	-7.44	-7.43	29.21	-0.74	310.04	-185.44	-157.82	282.42	-113.67
		330	3.18	29.26	-7.44	-7.42	29.24	-0.74	566.42	-106.11	-101.87	562.17	53.28
		327	2.99	28.59	-10.73	-10.72	28.58	-0.74	626.86	83.89	106.83	603.91	109.23
		99	2.01	28.56	-10.74	-10.73	28.55	-0.74	335.85	39.19	50.88	324.16	-57.72
281	2	30	2.16	32.21	6.21	6.22	32.19	-0.59	402.73	-194.40	197.23	11.10	-283.69
		250	3.39	19.17	3.59	3.61	19.15	-0.59	844.81	32.99	308.81	568.99	-384.50
		329	2.57	17.52	-4.60	-4.59	17.51	-0.59	569.37	6.00	56.78	518.58	-161.34
		141	0.92	30.57	-1.99	-1.98	30.55	-0.59	13.97	-108.07	-54.79	-39.31	-60.53
281	6	30	2.16	32.21	6.21	6.22	32.19	-0.59	402.73	-194.40	197.23	11.10	-283.69
		250	3.39	19.17	3.59	3.61	19.15	-0.59	844.81	32.99	308.81	568.99	-384.50
		329	2.57	17.52	-4.60	-4.59	17.51	-0.59	569.37	6.00	56.78	518.58	-161.34
		141	0.92	30.57	-1.99	-1.98	30.55	-0.59	13.97	-108.07	-54.79	-39.31	-60.53
282	2	106	1.79	9.80	-41.57	-29.77	-2.01	21.61	581.93	-362.00	425.48	-205.55	-351.00
		331	2.11	85.59	-17.92	-13.19	80.86	21.61	802.55	-27.19	518.05	257.30	-393.85
		332	1.90	81.81	-33.66	-29.47	77.61	21.61	549.72	97.08	410.92	235.88	-208.71
		42	1.56	4.06	-55.36	-46.04	-5.26	21.61	364.83	-273.46	318.35	-226.98	-165.86
282	6	106	1.79	9.80	-41.57	-29.77	-2.01	21.61	581.93	-362.00	425.48	-205.55	-351.00
		331	2.11	85.59	-17.92	-13.19	80.86	21.61	802.55	-27.19	518.05	257.30	-393.85
		332	1.90	81.81	-33.66	-29.47	77.61	21.61	549.72	97.08	410.92	235.88	-208.71
		42	1.56	4.06	-55.36	-46.04	-5.26	21.61	364.83	-273.46	318.35	-226.98	-165.86
283	2	142	4.80	14.84	-2.53	-2.24	14.55	2.24	1303.66	316.22	330.32	1289.56	117.12
		333	2.23	29.82	0.61	0.78	29.64	2.24	448.67	14.05	137.46	325.26	195.97
		334	2.12	28.09	-7.83	-7.69	27.95	2.24	539.98	159.29	334.59	364.69	-189.75
		14	4.97	13.07	-10.92	-10.70	12.86	2.24	1410.67	445.76	527.45	1328.99	-268.60
283	6	142	4.80	14.84	-2.53	-2.24	14.55	2.24	1303.66	316.22	330.32	1289.56	117.12
		333	2.23	29.82	0.61	0.78	29.64	2.24	448.67	14.05	137.46	325.26	195.97
		334	2.12	28.09	-7.83	-7.69	27.95	2.24	539.98	159.29	334.59	364.69	-189.75
		14	4.97	13.07	-10.92	-10.70	12.86	2.24	1410.67	445.76	527.45	1328.99	-268.60
284	2	14	3.33	43.58	-4.99	-4.63	43.23	4.16	351.91	-392.83	211.22	-252.14	-291.52
		334	3.78	30.17	-7.79	-7.33	29.71	4.16	963.72	72.82	390.80	645.74	-426.82
		331	3.13	29.25	-12.19	-11.77	28.83	4.16	731.76	101.83	221.67	611.92	-247.25
		106	2.52	42.67	-9.40	-9.06	42.34	4.16	76.65	-320.53	42.09	-285.97	-111.94
284	6	14	3.33	43.58	-4.99	-4.63	43.23	4.16	351.91	-392.83	211.22	-252.14	-291.52
		334	3.78	30.17	-7.79	-7.33	29.71	4.16	963.72	72.82	390.80	645.74	-426.82

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		331	3.13	29.25	-12.19	-11.77	28.83	4.16	731.76	101.83	221.67	611.92	-247.25
		106	2.52	42.67	-9.40	-9.06	42.34	4.16	76.65	-320.53	42.09	-285.97	-111.94
285	2	62	1.14	18.71	2.42	2.43	18.70	-0.34	76.00	-167.23	-164.24	73.01	-26.78
		251	2.37	19.80	2.64	2.65	19.79	-0.34	457.81	-100.59	-89.50	446.72	77.90
		333	2.57	19.00	-1.36	-1.35	18.99	-0.34	615.66	55.62	172.22	499.06	227.39
		142	1.12	17.91	-1.57	-1.57	17.90	-0.34	234.91	-12.07	97.48	125.36	122.70
285	6	62	1.14	18.71	2.42	2.43	18.70	-0.34	76.00	-167.23	-164.24	73.01	-26.78
		251	2.37	19.80	2.64	2.65	19.79	-0.34	457.81	-100.59	-89.50	446.72	77.90
		333	2.57	19.00	-1.36	-1.35	18.99	-0.34	615.66	55.62	172.22	499.06	227.39
		142	1.12	17.91	-1.57	-1.57	17.90	-0.34	234.91	-12.07	97.48	125.36	122.70
286	1	187	2.45	0.06	0.01	0.05	0.02	0.02	448.76	-298.95	-282.47	432.27	-109.79
		122	1.64	0.07	0.01	0.06	0.03	0.02	155.30	-339.40	-338.12	154.02	25.13
		335	1.00	0.09	0.02	0.08	0.03	0.02	250.97	-30.30	-0.81	221.48	-86.17
		336	2.29	0.09	0.02	0.08	0.03	0.02	590.92	-36.34	54.84	499.74	-221.09
286	6	187	1.51	13.32	9.06	13.30	9.08	-0.30	316.92	-120.01	-113.75	310.66	-51.92
		122	0.94	13.06	7.80	13.04	7.82	-0.30	-37.63	-196.33	-185.56	-48.40	39.91
		335	0.76	8.33	6.81	8.27	6.87	-0.30	127.05	-85.52	44.02	-2.48	-103.71
		336	1.85	8.68	7.96	8.52	8.12	-0.30	465.82	6.58	115.83	356.57	-195.54
287	1	195	2.03	0.04	1.28e-03	0.01	0.03	0.02	617.59	389.97	474.59	532.98	-110.00
		123	1.38	0.02	-8.49e-03	6.15e-03	9.78e-03	0.02	422.25	239.04	416.87	244.41	30.91
		337	2.57	0.02	-0.01	1.10e-03	8.77e-03	0.02	784.37	299.65	769.16	314.87	-84.51
		338	3.14	0.04	-2.89e-03	5.30e-03	0.03	0.02	966.75	463.56	826.87	603.43	-225.43
287	6	195	1.81	12.91	6.69	10.53	9.07	3.03	472.87	349.58	435.21	387.24	-56.79
		123	1.54	12.32	5.79	10.28	7.82	3.03	366.32	17.12	362.04	21.40	38.44
		337	2.30	9.90	3.83	6.63	7.09	3.03	621.20	47.94	600.12	69.02	-107.89
		338	2.67	10.72	4.50	6.88	8.34	3.03	789.60	318.55	673.29	434.86	-203.13
288	1	203	4.94	0.06	-0.53	-0.53	0.06	-0.02	422.54	-1049.79	-950.62	323.38	-369.00
		124	4.06	0.02	-0.54	-0.54	0.02	-0.02	53.63	-1050.65	-1012.25	15.23	-202.31
		339	3.24	0.05	-0.38	-0.38	0.05	-0.02	227.38	-724.33	-595.53	98.58	-325.57
		340	4.44	0.09	-0.37	-0.37	0.09	-0.02	617.23	-744.41	-533.90	406.72	-492.26
288	6	203	3.39	12.64	-0.30	2.60	9.74	5.40	238.76	-748.20	-678.60	169.16	-252.68
		124	2.81	12.98	-0.15	2.68	10.14	5.40	-53.98	-758.16	-729.05	-83.09	-140.19
		339	2.39	12.65	-0.90	1.78	9.96	5.40	82.71	-557.39	-447.83	-26.85	-241.09
		340	3.17	12.31	-1.05	1.70	9.56	5.40	385.17	-557.14	-397.38	225.41	-353.58
289	1	211	6.62	2.85e-03	-0.47	-0.47	2.74e-03	-7.19e-03	-232.27	-1865.76	-1852.05	-245.98	149.04
		125	6.74	0.03	-0.46	-0.46	0.03	-7.19e-03	-127.57	-1854.36	-1832.70	-149.23	192.17
		341	6.43	0.05	-0.39	-0.39	0.05	-7.19e-03	-94.96	-1757.58	-1724.88	-127.66	230.87
		342	6.29	0.02	-0.39	-0.39	0.02	-7.19e-03	-201.57	-1767.08	-1744.23	-224.42	187.74
289	4	211	4.73	2.62e-03	-0.33	-0.33	2.58e-03	-3.67e-03	-158.87	-1331.76	-1322.56	-168.07	103.48
		125	4.82	0.02	-0.33	-0.33	0.02	-3.67e-03	-85.95	-1323.58	-1309.04	-100.48	133.33
		341	4.60	0.03	-0.27	-0.27	0.03	-3.67e-03	-63.60	-1256.40	-1234.44	-85.56	160.36
		342	4.51	0.01	-0.28	-0.28	0.01	-3.67e-03	-137.81	-1263.30	-1247.95	-153.15	130.52
290	1	219	3.05	0.05	-0.05	0.04	-0.04	0.04	936.99	421.18	667.56	690.61	-257.65
		126	1.92	0.07	-1.53e-03	0.05	0.02	0.04	590.21	272.17	584.92	277.46	-40.65
		343	3.96	0.04	-0.04	-0.01	9.98e-03	0.04	1180.77	332.61	1127.43	385.96	-205.91
		344	4.85	-1.25e-03	-0.08	-0.03	-0.05	0.04	1474.77	534.40	1210.06	799.11	-422.91
290	6	219	2.48	11.91	4.35	7.34	8.92	-3.70	686.10	385.68	572.45	499.33	-145.69
		126	1.83	10.97	3.56	7.06	7.48	-3.70	482.43	48.89	482.37	48.94	4.90
		343	3.34	9.83	2.13	4.92	7.05	-3.70	898.52	84.57	858.85	124.24	-175.26
		344	3.96	10.90	2.80	5.21	8.49	-3.70	1137.54	386.01	948.92	574.63	-325.85
291	1	227	2.29	0.02	1.09e-03	3.30e-03	0.02	-6.02e-03	457.73	-236.62	-195.44	416.55	-164.00
		127	1.37	0.03	3.10e-03	4.77e-03	0.02	-6.02e-03	170.18	-247.93	-245.25	167.51	-33.34
		345	1.16	0.04	0.02	0.03	0.03	-6.02e-03	310.12	4.10	81.39	232.83	-132.96
		346	2.36	0.03	0.02	0.03	0.02	-6.02e-03	623.15	-10.07	131.20	481.88	-263.62
291	6	227	1.46	11.79	8.44	11.01	9.22	-1.41	322.27	-70.85	-51.51	302.93	-85.02
		127	0.62	11.30	7.23	10.73	7.80	-1.41	-31.08	-118.48	-118.34	-31.22	3.47
		345	1.03	8.36	5.52	6.86	7.03	-1.41	195.68	-79.77	102.88	13.02	-130.19
		346	1.98	9.35	6.23	7.14	8.44	-1.41	494.44	22.45	169.71	347.18	-218.68
292	1	235	2.74	0.03	-0.02	-0.02	0.03	3.16e-03	460.10	-383.58	-353.63	430.15	-156.12
		128	1.88	0.03	-0.02	-0.02	0.03	3.16e-03	150.33	-409.74	-409.62	150.21	-8.32
		347	1.21	0.04	2.24e-03	2.51e-03	0.04	3.16e-03	270.67	-86.68	-40.12	224.11	-120.29
		348	2.55	0.03	1.36e-03	1.67e-03	0.03	3.16e-03	622.52	-102.60	15.87	504.05	-268.09
292	6	235	1.70	11.42	8.55	11.02	8.95	1.00	324.86	-180.54	-166.86	311.18	-82.02
		128	1.03	11.02	7.26	10.73	7.54	1.00	-42.24	-239.71	-237.90	-44.05	18.78
		347	0.85	7.93	5.92	7.04	6.80	1.00	133.59	-113.14	14.10	6.35	-123.31
		348	1.98	8.86	6.68	7.33	8.22	1.00	486.66	-39.94	85.15	361.58	-224.11
293	1	243	2.66	0.03	-0.03	-0.03	0.03	0.01	431.50	-385.50	-370.19	416.19	-110.78
		129	1.87	0.03	-0.03	-0.03	0.03	0.01	106.93	-436.27	-432.75	103.41	43.60
		349	0.94	0.04	-8.73e-03	-6.21e-03	0.04	0.01	206.80	-73.00	-46.80	180.60	-81.52
		350	2.38	0.03	-9.92e-03	-7.17e-03	0.03	0.01	590.24	-81.11	15.76	493.38	-235.90
293	6	243	1.61	12.02	3.09	6.89	8.22	4.41	305.85	-172.79	-166.47	299.54	-54.62
		129	0.95	11.86	2.96	6.84	7.97	4.41	-70.91	-257.50	-243.38	-85.02	49.34
		349	0.92	11.63	2.69	6.43	7.89	4.41	99.12	-115.64	16.52	-33.04	-104.48
		350	1.86	11.80	2.82	6.48	8.14	4.41	467.63	-22.68	93.43	351.52	-208.45

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
294	1	183	2.48	0.07	-8.21e-03	0.03	0.03	-0.04	763.86	348.01	489.33	622.54	196.97
		15	2.85	0.23	0.06	0.07	0.22	-0.04	869.75	526.21	536.68	859.28	59.06
		351	2.86	0.23	0.07	0.08	0.22	-0.04	827.52	154.71	191.90	790.33	153.76
		352	2.66	0.07	-6.70e-03	0.04	0.03	-0.04	705.29	-7.15	144.56	553.58	291.67
294	5	183	2.29	15.32	4.65	11.48	8.48	-5.12	446.80	-184.76	54.77	207.26	306.44
		15	3.00	25.62	12.09	14.44	23.28	-5.12	40.22	-647.40	-90.10	-517.09	269.49
		351	2.25	23.28	5.02	6.59	21.71	-5.12	-181.30	-536.72	-182.46	-535.56	-20.25
		352	0.91	10.65	-0.10	3.63	6.91	-5.12	190.01	-38.81	-37.59	188.79	16.70
295	1	191	2.65	0.07	-2.69e-03	0.05	0.02	-0.03	815.63	447.55	672.00	591.18	179.55
		19	2.95	0.19	0.08	0.08	0.19	-0.03	846.93	702.44	719.70	829.68	46.86
		353	2.65	0.19	0.06	0.07	0.18	-0.03	811.15	340.16	387.98	763.33	142.26
		354	2.49	0.06	-9.55e-03	0.03	0.01	-0.03	722.58	142.54	340.28	524.84	274.94
295	5	191	2.15	12.00	8.48	11.53	8.95	-1.19	479.94	-139.90	138.55	201.49	308.32
		19	2.97	23.78	14.31	14.46	23.63	-1.19	112.33	-631.41	-4.64	-514.45	270.76
		353	2.33	22.04	5.98	6.06	21.95	-1.19	-97.97	-533.78	-98.53	-533.22	-15.61
		354	0.78	7.59	2.81	3.13	7.27	-1.19	186.12	41.25	44.65	182.71	21.95
296	1	199	6.95	0.53	-0.05	0.44	0.04	-0.20	2130.62	912.23	2070.77	972.08	263.33
		23	7.18	0.62	0.17	0.49	0.30	-0.20	2168.16	1444.41	2165.72	1446.85	41.98
		355	5.80	0.24	-0.32	-0.23	0.16	-0.20	1744.17	1204.38	1612.36	1336.18	231.89
		356	5.76	0.03	-0.42	-0.29	-0.11	-0.20	1748.88	629.94	1517.41	861.41	453.24
296	4	199	4.97	0.38	-0.03	0.32	0.03	-0.15	1523.42	653.11	1479.10	697.43	191.32
		23	5.13	0.45	0.12	0.36	0.22	-0.15	1549.08	1033.64	1546.80	1035.92	34.21
		355	4.16	0.17	-0.23	-0.17	0.11	-0.15	1251.73	859.64	1154.01	957.36	169.61
		356	4.13	0.02	-0.30	-0.20	-0.08	-0.15	1254.30	450.87	1086.31	618.87	326.72
297	1	207	8.42	6.36e-03	-0.45	-0.45	6.32e-03	4.04e-03	-348.68	-2395.25	-2390.43	-353.51	-99.23
		27	8.38	-9.28e-04	-0.45	-0.45	-9.64e-04	4.04e-03	-368.93	-2394.05	-2393.60	-369.37	-30.10
		357	7.79	0.01	-0.39	-0.39	0.01	4.04e-03	-334.11	-2221.49	-2220.78	-334.81	-36.44
		358	7.83	0.02	-0.38	-0.38	0.02	4.04e-03	-313.09	-2223.46	-2217.61	-318.94	-105.57
297	6	207	6.03	9.48	0.20	0.45	9.23	1.51	-280.53	-1709.74	-1705.90	-284.38	-73.99
		27	6.01	9.49	0.20	0.45	9.24	1.51	-287.30	-1706.98	-1706.56	-287.71	-24.20
		357	5.59	9.43	-0.06	0.18	9.18	1.51	-262.32	-1582.58	-1582.09	-262.82	-25.53
		358	5.61	9.43	-0.06	0.18	9.18	1.51	-255.20	-1585.70	-1581.42	-259.48	-75.32
298	1	215	5.68	-1.65e-03	-0.94	-0.92	-0.02	0.13	1735.49	718.10	1617.33	836.26	325.96
		13	5.91	0.04	-0.93	-0.92	0.02	0.13	1724.35	1353.95	1721.45	1356.84	32.62
		359	4.47	0.20	-0.26	-0.22	0.16	0.13	1364.36	833.92	988.11	1210.17	240.86
		360	4.60	0.16	-0.27	-0.23	0.12	0.13	1329.76	243.82	883.99	689.59	534.20
298	4	215	4.04	7.13e-04	-0.67	-0.66	-0.01	0.10	1235.41	519.65	1153.87	601.19	227.41
		13	4.22	0.03	-0.67	-0.65	0.02	0.10	1229.24	969.97	1227.90	971.31	18.58
		359	3.19	0.15	-0.19	-0.16	0.12	0.10	971.44	601.30	705.83	866.90	166.63
		360	3.26	0.12	-0.19	-0.16	0.09	0.10	945.77	182.82	631.81	496.78	375.45
299	1	223	3.17	0.07	-0.08	-0.04	0.02	-0.07	970.50	569.65	918.64	621.51	134.54
		29	3.48	0.20	-0.03	-9.84e-03	0.17	-0.07	970.40	879.93	970.33	880.00	2.44
		361	2.87	0.21	0.01	0.04	0.18	-0.07	863.97	590.05	640.07	813.94	105.83
		362	2.65	0.09	-0.05	6.98e-03	0.03	-0.07	810.42	333.41	588.37	555.46	237.94
299	5	223	2.15	13.86	3.64	8.55	8.95	-5.10	507.90	-55.48	238.27	214.14	281.43
		29	2.99	24.84	9.41	11.34	22.91	-5.10	191.40	-559.24	101.56	-469.40	243.65
		361	2.33	22.95	3.05	4.46	21.54	-5.10	8.89	-490.07	7.10	-488.29	-29.77
		362	0.82	10.52	-1.27	1.67	7.57	-5.10	196.47	142.59	143.81	195.25	8.02
300	1	231	2.18	0.08	-0.04	0.02	0.02	-0.06	670.62	372.33	463.58	579.37	137.45
		21	2.80	0.24	0.04	0.06	0.22	-0.06	853.70	518.44	518.45	853.70	0.93
		363	2.77	0.23	-0.01	8.43e-03	0.21	-0.06	804.95	157.64	177.14	785.44	110.66
		364	2.36	0.06	-0.08	-0.03	0.01	-0.06	631.17	2.21	122.28	511.11	247.19
300	5	231	2.04	12.62	6.78	10.46	8.95	-2.82	424.64	-159.68	64.01	200.94	284.03
		21	2.71	23.70	12.49	13.25	22.94	-2.82	43.58	-587.98	-70.88	-473.52	243.29
		363	2.11	21.87	5.02	5.51	21.39	-2.82	-170.56	-496.06	-172.73	-493.89	-26.50
		364	0.90	8.72	1.39	2.71	7.40	-2.82	181.50	-38.76	-37.84	180.57	14.24
301	1	239	2.38	0.05	-0.06	-0.03	0.03	-0.05	733.22	337.81	467.90	603.13	185.78
		17	2.87	0.23	-3.89e-03	6.47e-03	0.22	-0.05	878.36	516.20	521.82	872.73	44.79
		365	2.92	0.22	-0.02	-9.69e-03	0.21	-0.05	837.12	134.46	169.35	802.24	152.63
		366	2.64	0.05	-0.07	-0.05	0.02	-0.05	684.21	-36.15	115.43	532.63	293.62
301	5	239	2.13	8.52	8.24	8.51	8.25	0.06	450.90	-163.44	73.46	213.99	299.02
		17	2.65	22.26	11.31	11.31	22.26	0.06	62.17	-585.25	-61.63	-461.45	254.61
		365	2.07	21.04	5.24	5.24	21.04	0.06	-171.89	-484.43	-172.67	-483.65	-15.57
		366	0.96	7.04	2.44	2.44	7.04	0.06	195.36	-41.15	-37.58	191.79	28.85
302	2	247	3.09	10.58	2.15	2.32	10.41	1.17	687.63	-174.62	206.07	306.95	428.16
		25	3.12	27.16	5.59	5.65	27.09	1.17	296.48	-557.10	77.13	-337.76	372.99
		367	2.03	26.40	1.87	1.92	26.35	1.17	-22.20	-403.96	-60.81	-365.34	115.10
		368	1.66	9.79	-1.53	-1.41	9.67	1.17	374.12	-26.64	68.13	279.36	170.28
302	5	247	2.26	10.59	2.18	2.34	10.42	1.18	436.98	-209.90	70.70	156.38	320.60
		25	3.27	27.13	5.61	5.67	27.06	1.18	61.22	-719.25	-76.81	-581.22	297.79
		367	2.65	26.37	1.87	1.93	26.31	1.18	-133.82	-592.64	-133.83	-592.62	2.75
		368	0.81	9.79	-1.53	-1.40	9.67	1.18	149.77	8.89	13.69	144.97	25.56
303	1	25	2.73	0.17	0.05	0.06	0.16	0.04	833.50	506.32	577.44	762.38	134.95
		130	2.16	0.05	-0.03	0.03	9.15e-04	0.04	622.96	516.74	544.09	595.62	-46.44

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
		369	1.86	0.01	-0.07	-0.04	-0.01	0.04	542.11	109.11	137.02	514.20	-106.32
		367	2.36	0.16	-0.02	-0.01	0.15	0.04	691.78	159.56	170.37	680.97	75.07
303	5	25	3.08	27.29	2.65	3.33	26.60	4.06	34.95	-633.56	-27.30	-571.31	-194.27
		130	1.78	14.22	-0.60	0.62	13.01	4.06	348.51	-135.53	107.97	105.01	-242.02
		369	0.68	13.32	-3.90	-2.88	12.31	4.06	83.59	0.80	0.80	83.58	0.83
		367	2.66	26.51	-0.78	-0.17	25.90	4.06	-129.37	-597.84	-134.46	-592.75	48.58
304	1	121	1.73	0.06	0.04	0.06	0.04	4.63e-03	239.63	-292.53	-287.65	234.75	50.69
		183	2.65	0.06	0.03	0.06	0.03	4.63e-03	520.77	-283.19	-239.24	476.82	182.76
		352	2.62	0.08	0.03	0.08	0.03	4.63e-03	676.38	-42.59	90.92	542.86	279.59
		162	1.43	0.08	0.04	0.08	0.04	4.63e-03	367.71	-24.41	42.51	300.79	147.52
304	6	121	0.83	13.16	5.44	11.35	7.25	-3.27	0.69	-163.80	-163.69	0.58	-4.29
		183	1.65	13.67	6.44	11.60	8.50	-3.27	355.60	-113.39	-96.13	338.34	88.29
		352	1.95	11.46	4.90	8.48	7.88	-3.27	515.80	4.15	135.32	384.63	223.40
		162	0.99	10.79	4.07	8.23	6.63	-3.27	188.55	-73.91	67.77	46.87	130.82
305	1	15	2.81	0.25	0.07	0.10	0.22	0.07	856.02	518.86	519.12	855.77	9.26
		187	2.16	0.11	-0.03	0.06	0.02	0.07	662.07	383.84	464.29	581.63	-126.14
		336	2.32	0.09	-0.04	0.03	0.02	0.07	625.25	14.47	125.79	513.93	-235.80
		351	2.76	0.24	0.05	0.07	0.22	0.07	804.23	164.45	180.62	788.07	-100.40
305	6	15	2.26	23.79	14.52	14.88	23.43	1.79	250.16	-359.63	116.22	-225.69	-252.46
		187	2.62	12.76	8.00	11.95	8.81	1.79	662.03	-43.58	237.54	380.91	-345.45
		336	1.50	7.92	2.94	3.70	7.16	1.79	363.88	-24.38	5.08	334.42	-102.80
		351	1.37	21.99	6.42	6.63	21.78	1.79	-115.63	-272.80	-116.24	-272.18	-9.82
306	1	122	1.41	0.05	0.02	0.05	0.02	8.65e-03	174.24	-256.24	-253.04	171.04	36.98
		191	2.32	0.05	0.01	0.05	0.02	8.65e-03	457.51	-245.59	-204.06	415.97	165.76
		354	2.36	0.08	0.02	0.08	0.02	8.65e-03	619.14	-20.86	117.91	480.37	263.74
		335	1.18	0.08	0.03	0.08	0.03	8.65e-03	310.74	-6.39	68.92	235.43	134.95
306	6	122	0.68	13.08	7.58	12.87	7.79	1.05	-35.65	-123.07	-122.87	-35.86	-4.23
		191	1.43	13.43	9.01	13.17	9.27	1.05	320.13	-73.64	-55.33	301.83	82.91
		354	1.96	9.39	7.29	8.37	8.31	1.05	490.34	17.57	162.51	345.39	217.98
		335	1.02	8.66	6.23	8.07	6.83	1.05	189.27	-86.59	94.97	7.71	130.85
307	1	19	3.46	0.19	-0.01	8.99e-03	0.17	0.07	961.80	878.06	961.77	878.09	-1.65
		195	3.14	0.07	-0.07	-0.02	0.02	0.07	962.38	567.88	910.17	620.09	-133.69
		338	2.63	0.10	-0.03	0.04	0.04	0.07	804.31	329.82	580.06	554.07	-236.89
		353	2.85	0.21	0.04	0.07	0.18	0.07	860.17	583.56	631.66	812.07	-104.85
307	6	19	2.99	25.76	11.13	13.42	23.47	5.32	538.66	-285.48	447.28	-194.10	-258.77
		195	3.01	15.17	4.43	10.54	9.07	5.32	850.99	131.89	568.90	413.98	-351.11
		338	1.54	10.95	-0.72	2.72	7.50	5.32	461.83	244.03	338.04	367.81	-107.88
		353	1.91	23.49	4.02	5.60	21.91	5.32	216.95	-240.80	216.43	-240.27	-15.53
308	1	123	1.91	0.09	4.99e-03	0.07	0.02	-0.03	586.67	271.62	581.04	277.24	41.73
		199	3.05	0.07	-0.05	0.06	-0.04	-0.03	936.36	418.04	663.73	690.67	258.81
		356	4.85	0.01	-0.07	-4.83e-03	-0.05	-0.03	1473.34	532.30	1206.43	799.21	424.18
		337	3.95	0.04	-0.03	7.43e-03	0.01	-0.03	1177.89	331.63	1123.74	385.78	207.10
308	6	123	1.88	12.46	3.98	8.89	7.55	4.19	480.53	44.99	480.43	45.08	-6.35
		199	2.51	13.30	4.92	9.19	9.03	4.19	683.78	386.80	571.28	499.30	144.06
		356	3.98	11.65	2.99	6.21	8.43	4.19	1136.22	385.60	947.31	574.51	325.75
		337	3.36	10.65	2.21	5.91	6.95	4.19	896.10	80.66	856.47	120.29	175.34
309	1	23	5.91	0.04	-0.93	-0.91	0.02	-0.13	1725.21	1355.48	1722.48	1358.20	-31.61
		203	5.68	-9.20e-04	-0.94	-0.92	-0.02	-0.13	1736.09	719.34	1618.27	837.16	-325.44
		340	4.60	0.17	-0.26	-0.21	0.12	-0.13	1329.52	244.41	883.68	690.24	-533.86
		355	4.47	0.21	-0.25	-0.21	0.16	-0.13	1364.33	834.85	987.89	1211.29	-240.03
309	6	23	4.12	26.12	2.53	6.13	22.53	8.47	1062.54	70.73	980.93	152.34	-272.55
		203	4.85	15.82	-2.27	3.61	9.94	8.47	1337.25	231.93	1053.59	515.60	-482.78
		340	3.09	14.37	-4.82	0.27	9.28	8.47	811.80	126.70	528.01	410.49	-337.47
		355	2.20	25.08	-0.44	2.78	21.86	8.47	491.78	10.80	455.36	47.23	-127.24
310	1	124	6.74	0.03	-0.46	-0.46	0.03	6.82e-03	-127.30	-1854.34	-1832.77	-148.87	-191.79
		207	6.62	3.24e-03	-0.46	-0.46	3.14e-03	6.82e-03	-232.20	-1865.82	-1852.17	-245.85	-148.71
		358	6.29	0.02	-0.39	-0.39	0.02	6.82e-03	-201.53	-1767.26	-1744.47	-224.31	-187.51
		339	6.43	0.05	-0.38	-0.38	0.05	6.82e-03	-94.72	-1757.69	-1725.07	-127.33	-230.59
310	4	124	4.82	0.02	-0.32	-0.32	0.02	3.63e-03	-85.76	-1323.57	-1309.10	-100.23	-133.05
		207	4.73	2.93e-03	-0.33	-0.33	2.89e-03	3.63e-03	-158.82	-1331.81	-1322.65	-167.98	-103.24
		358	4.51	0.01	-0.28	-0.28	0.01	3.63e-03	-137.78	-1263.43	-1248.13	-153.08	-130.34
		339	4.60	0.03	-0.27	-0.27	0.03	3.63e-03	-63.42	-1256.48	-1234.58	-85.32	-160.15
311	1	27	8.38	-1.17e-03	-0.45	-0.45	-1.22e-03	-4.42e-03	-368.91	-2394.00	-2393.55	-369.36	30.37
		211	8.42	6.45e-03	-0.45	-0.45	6.41e-03	-4.42e-03	-348.80	-2395.26	-2390.41	-353.66	99.51
		342	7.83	0.02	-0.39	-0.39	0.02	-4.42e-03	-313.21	-2223.43	-2217.55	-319.08	105.80
		357	7.79	0.01	-0.39	-0.39	0.01	-4.42e-03	-334.08	-2221.40	-2220.69	-334.79	36.65
311	6	27	6.02	9.25	0.21	0.26	9.20	-0.66	-287.38	-1707.04	-1706.69	-287.74	22.56
		211	6.03	9.29	0.22	0.27	9.24	-0.66	-280.51	-1709.65	-1705.98	-284.19	72.38
		342	5.61	9.25	0.04	0.09	9.21	-0.66	-255.17	-1585.52	-1581.41	-259.27	73.80
		357	5.59	9.21	0.03	0.08	9.16	-0.66	-262.39	-1582.55	-1582.12	-262.82	23.98
312	1	125	4.06	0.02	-0.54	-0.54	0.01	0.02	53.51	-1050.53	-1011.94	14.92	202.77
		215	4.94	0.06	-0.53	-0.53	0.06	0.02	422.14	-1049.80	-950.38	322.71	369.40
		360	4.44	0.09	-0.38	-0.38	0.09	0.02	616.85	-744.61	-533.79	406.03	492.52
		341	3.24	0.05	-0.39	-0.39	0.05	0.02	227.33	-724.44	-595.35	98.24	325.88

Elem.	Cmb	Nodo	Von Mises	N max	N min	N 1	N 2	N 1-2	M max	M min	M 1	M 2	M 1-2
312	4	125	2.89	0.01	-0.39	-0.38	0.01	0.02	42.82	-747.14	-721.37	17.05	140.33
		215	3.52	0.04	-0.38	-0.38	0.04	0.02	303.07	-746.02	-677.81	234.85	258.67
		360	3.15	0.07	-0.27	-0.27	0.06	0.02	439.57	-527.50	-381.96	294.02	345.79
		341	2.30	0.03	-0.28	-0.28	0.03	0.02	163.98	-513.28	-425.52	76.22	227.45
313	1	13	7.18	0.60	0.17	0.47	0.30	0.20	2169.19	1443.62	2166.88	1445.93	-40.86
		219	6.95	0.50	-0.05	0.42	0.04	0.20	2131.27	912.23	2072.00	971.50	-262.20
		344	5.76	0.02	-0.43	-0.30	-0.11	0.20	1748.73	630.77	1518.67	860.84	-451.97
		359	5.80	0.24	-0.33	-0.25	0.16	0.20	1743.76	1205.05	1613.55	1335.26	-230.63
313	6	13	4.95	22.99	7.86	7.96	22.89	-1.24	1386.74	169.07	1324.16	231.65	-268.86
		219	5.46	8.86	4.67	5.07	8.46	-1.24	1601.31	477.03	1411.25	667.09	-421.38
		344	3.76	7.57	-0.55	-0.36	7.38	-1.24	1141.02	479.76	1029.95	590.83	-247.20
		359	3.50	21.88	2.45	2.53	21.80	-1.24	954.08	144.17	942.86	155.39	-94.68
314	1	126	1.39	0.02	-0.02	-0.02	9.40e-03	-0.02	427.71	240.15	422.82	245.04	-29.88
		223	2.04	0.03	-0.02	-0.01	0.03	-0.02	621.41	393.09	480.60	533.91	111.01
		362	3.16	0.03	-0.02	-0.02	0.03	-0.02	972.31	464.86	832.82	604.35	226.56
		343	2.59	0.01	-0.03	-0.02	8.19e-03	-0.02	790.50	300.03	775.05	315.48	85.66
314	6	126	1.50	10.73	5.29	8.29	7.72	-2.71	369.52	21.12	365.14	25.50	-38.78
		223	1.79	11.45	6.03	8.54	8.94	-2.71	474.59	351.40	437.70	388.29	56.42
		362	2.66	10.10	4.09	5.79	8.40	-2.71	790.31	321.29	675.71	435.89	201.54
		343	2.28	9.19	3.54	5.55	7.18	-2.71	623.68	52.56	603.15	73.10	106.34
315	2	29	2.59	23.22	12.04	12.13	23.13	1.00	408.67	-324.37	287.03	-202.73	-272.72
		227	2.90	10.09	8.05	9.28	8.87	1.00	765.81	35.20	406.48	394.53	-365.26
		346	1.51	7.61	1.91	2.09	7.43	1.00	414.85	108.52	175.12	348.26	-126.36
		361	1.54	21.75	4.89	4.94	21.69	1.00	59.37	-252.71	55.67	-249.00	-33.81
315	6	29	2.59	23.22	12.04	12.13	23.13	1.00	408.67	-324.37	287.03	-202.73	-272.72
		227	2.90	10.09	8.05	9.28	8.87	1.00	765.81	35.20	406.48	394.53	-365.26
		346	1.51	7.61	1.91	2.09	7.43	1.00	414.85	108.52	175.12	348.26	-126.36
		361	1.54	21.75	4.89	4.94	21.69	1.00	59.37	-252.71	55.67	-249.00	-33.81
316	1	127	1.63	0.04	-4.10e-03	7.15e-03	0.03	-0.02	149.48	-340.30	-339.48	148.66	-19.99
		231	2.46	0.03	-6.73e-03	5.96e-03	0.02	-0.02	449.33	-302.52	-283.21	430.01	118.95
		364	2.32	0.04	7.95e-03	0.03	0.02	-0.02	599.57	-35.94	64.15	499.48	231.49
		345	1.00	0.05	0.01	0.03	0.03	-0.02	253.06	-27.06	7.88	218.13	92.55
316	6	127	0.89	11.18	7.82	11.12	7.88	-0.43	-35.40	-196.62	-187.05	-44.96	-38.09
		231	1.52	11.45	9.05	11.37	9.13	-0.43	318.55	-123.06	-115.80	311.29	56.16
		364	1.86	8.48	7.17	7.33	8.32	-0.43	470.84	7.39	119.82	358.41	198.66
		345	0.73	7.51	6.64	7.08	7.07	-0.43	132.32	-81.59	48.57	2.16	104.41
317	1	21	2.80	0.22	-0.02	-0.01	0.21	0.04	856.40	498.43	504.02	850.81	-44.38
		235	2.33	0.04	-0.07	-0.05	0.02	0.04	715.80	327.62	452.12	591.30	-181.18
		348	2.58	0.05	-0.05	-0.03	0.03	0.04	668.38	-35.37	110.12	522.90	-284.99
		363	2.85	0.22	1.87e-03	8.80e-03	0.21	0.04	815.99	128.44	162.02	782.41	-148.19
317	6	21	2.35	23.96	12.06	13.06	22.96	3.30	279.09	-350.12	118.18	-189.21	-274.51
		235	2.76	12.89	6.14	10.23	8.80	3.30	689.80	-64.10	234.30	391.41	-368.67
		348	1.62	9.01	0.97	2.69	7.29	3.30	391.71	-48.50	-1.12	344.33	-136.43
		363	1.31	22.11	4.87	5.53	21.46	3.30	-103.76	-249.77	-117.24	-236.29	-42.26
318	1	128	1.89	0.04	-0.02	-0.02	0.03	-7.24e-03	149.89	-412.61	-412.38	149.65	11.50
		239	2.79	0.03	-0.02	-0.02	0.03	-7.24e-03	470.25	-386.19	-354.58	438.63	161.48
		366	2.61	0.03	-1.29e-03	2.84e-04	0.03	-7.24e-03	637.94	-103.92	20.39	513.63	277.08
		347	1.24	0.04	1.94e-04	1.56e-03	0.04	-7.24e-03	276.16	-88.91	-37.40	224.65	127.09
318	6	128	1.04	11.36	6.24	10.17	7.43	2.16	-42.59	-240.39	-238.76	-44.22	-17.85
		239	1.74	11.86	7.18	10.41	8.63	2.16	331.41	-180.74	-166.49	317.16	84.23
		366	2.11	9.80	5.41	7.21	8.00	2.16	496.54	-39.62	88.72	368.20	228.78
		347	0.94	9.05	4.72	6.97	6.79	2.16	138.42	-115.16	16.44	6.82	126.70
319	1	17	2.85	0.23	-2.25e-03	0.01	0.22	0.05	871.67	516.51	516.51	871.67	0.73
		243	2.19	0.06	-0.06	-0.03	0.03	0.05	671.89	368.62	458.57	581.94	-138.52
		350	2.41	0.05	-0.08	-0.05	0.02	0.05	635.57	-12.82	110.44	512.32	-254.41
		365	2.85	0.23	-0.02	-0.01	0.21	0.05	822.32	148.10	168.38	802.04	-115.16
319	6	17	2.31	24.95	7.24	10.11	22.08	6.53	270.46	-309.14	134.43	-173.10	-245.64
		243	2.72	14.38	1.29	7.35	8.31	6.53	662.71	-35.35	245.43	381.92	-342.29
		350	1.52	11.80	-2.17	2.33	7.31	6.53	372.80	-35.40	3.81	333.59	-120.28
		365	1.26	23.40	2.76	5.08	21.08	6.53	-102.50	-226.13	-107.20	-221.43	-23.63
320	1	129	1.91	0.03	-0.03	-0.03	0.03	8.16e-04	113.02	-442.38	-432.77	103.40	72.43
		247	2.80	0.03	-0.03	-0.03	0.03	8.16e-04	415.32	-447.51	-383.24	351.05	226.55
		368	2.65	0.03	-9.98e-03	-9.97e-03	0.03	8.16e-04	604.18	-174.03	2.05	428.11	325.61
		349	1.36	0.03	-9.64e-03	-9.62e-03	0.03	8.16e-04	272.40	-139.42	-47.48	180.46	171.49
320	6	129	0.87	11.51	0.93	4.87	7.58	5.12	-80.32	-235.39	-232.80	-82.91	19.88
		247	1.78	14.12	2.50	5.56	11.06	5.12	266.74	-204.85	-169.87	231.76	123.59
		368	2.19	14.19	2.63	5.72	11.10	5.12	454.20	-81.17	89.41	283.61	249.46
		349	1.18	11.60	1.04	5.03	7.61	5.12	146.27	-150.84	26.48	-31.05	145.74
Elem.			**Von Mises**	**N max**	**N min**	**N 1**	**N 2**	**N 1-2**	**M max**	**M min**	**M 1**	**M 2**	**M 1-2**
					-86.24	-70.39	-22.61	-32.52		-6235.63	-6229.12	-592.75	-1137.75
			9.27	204.95		46.20	198.29	28.45	3390.24		3389.98	1739.19	1299.42

VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

LEGENDA TABELLA VERIFICHE ELEMENTI PARETE E GUSCIO IN C.A.

Per le pareti in c.a., in ottemperanza al cap. 7 del DM 17-01-18, viene effettuata una doppia progettazione: sia come *Singolo Elemento* sia come *Parete Sismica* o *Parete Debolmente Armata.*

Per la progettazione come *Singolo Elemento* di ogni elemento vengono riportati il codice dello stato di verifica con le sigle **Ok e NV,** il rapporto x/d, la verifica per sollecitazioni ultime (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti), gli sforzi membranali e flessionali, il quantitativo di armatura nella direzione principale e secondaria sia inferiore che superiore e il quantitativo di armatura a taglio.

Per la progettazione come *Parete Sismica* o *Parete Debolmente Armata* vengono riportate invece le caratteristiche geometriche della parete e delle zone dissipative (quest'ultime solo nel caso di parete sismica), i coefficienti di verifica a compressione assiale, pressoflessione e sollecitazioni taglianti.

Inoltre vengono riportate per ogni quota significativa l'armatura principale e secondaria, l'armatura in zona confinata (solo per parete sismica) e non confinata, l'armatura concentrata all'estremità (per pareti debolmente armate), lo sforzo assiale aggiuntivo per q superiore a 2 e i valori di inviluppo di taglio e momento. Per le pareti debolmente armate viene riportato anche lo stato di verifica relativo alla snellezza.

Le azioni derivate dall'analisi, in ogni combinazione di calcolo, sono elaborate come previsto al punto 7.4.4.5.1: traslazione del momento, incremento e variazione diagramma taglio, incremento e decremento sforzo assiale.

La progettazione nel caso dei gusci viene effettuata una progettazione come *Singolo Elemento,* riportando in tabella il rapporto x/d, la verifica per sollecitazioni ultime, (verifica a compressione media gli sforzi membranali, verifica a presso-flessionale e verifica a sollecitazioni taglianti) di ogni elemento.

Per ogni elemento, viene riportata inoltre la maglia di armatura necessaria in relazione alle risultanze della progettazione dei nodi dell'elemento stesso. Le quantità di armature necessarie sono armature (disposte rispettivamente in direzione principale e secondaria, inferiore e superiore) distribuite nell'elemento ed espresse in centimetri quadri per sviluppo lineare pari ad un metro.

Nel caso dei gusci viene effettuata, inoltre, la verifica a punzonamento, riportando in tabella il codice dello stato di verifica, il coefficiente di verifica per piastre prive di armature a taglio lungo il perimetro resistente e lungo il perimetro del pilastro, coefficiente di incremento dovuto ai momenti flettenti, fattore di amplificazione per le fondazioni, il fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta, il quantitativo di armatura a punzonamento, il numero di serie di armature, il numero di braccia di armatura ed il riferimento alla combinazione più gravosa.

Per gli elementi di fondazione si fa riferimento al paragrafo 7.2.5 del D.M.17/01/2018 che prevede:
"*Sia per CD"A" sia per CD"B" il dimensionamento delle strutture di fondazione e la verifica di sicurezza del complesso fondazione-terreno devono essere eseguiti assumendo come azione in fondazione, trasmessa dagli elementi soprastanti, una tra le seguenti:*

- *quella derivante dall'analisi strutturale eseguita ipotizzando comportamento strutturale non dissipativo;*
- *[…];*
- *quella trasferita dagli elementi soprastanti nell'ipotesi di comportamento strutturale dissipativo, amplificata di un coefficiente pari a 1,30 in CD"A" e 1,10 in CD"B"*

[...]

Le strutture delle fondazioni superficiali devono essere progettate per le azioni definite al precedente capoverso, assumendo un comportamento non dissipativo; non sono quindi necessarie armature specifiche per ottenere un comportamento duttile."

Nel caso di comportamento strutturale dissipativo l'incremento delle sollecitazioni sopracitato viene eseguito come previsto dall'Eurocodice

$$E_{Fd} = E_{F,G} + \gamma_{Rd} \Omega E_{F,E}$$

Nel contesto visualizzazione risultati e nella stampa della relazione sulle fondazioni PRO_SAP mostra le sollecitazioni che derivano dall'analisi non incrementate sia in termini di pressioni sul terreno che in termini di sollecitazioni.

Simbologia adottata nelle tabelle di verifica

Per gli elementi con progettazione di tipo "*Singolo Elemento …*" è presente una tabella con i simboli di seguito descritti:

Macro Guscio	Numero del macroelemento di tipo guscio (elementi non verticali contigui ed analoghi per proprietà)
Macro Setto	Numero del macroelemento di tipo setto (elementi verticali contigui ed analoghi per proprietà)
Spessore	Spessore della parete
Id Materiale	Codice del materiale assegnato all'elemento
Id Criterio	Codice del criterio di progetto assegnato all'elemento
Progettazione	Sigla tipo di Elemento: - Singolo Elemento; - Singolo Elemento FONDAZIONE; - Singolo Elemento NON DISSIPATIVO

Per gli elementi con progettazione di tipo "*Parete Sismica" e "Parete Debolmente Armata*" è presente una tabella con i simboli di seguito descritti:

Parete	Numero della PARETE SISMICA
Parete PDA	Numero della PARETE DEBOLMENTE ARMATA
H totale	Altezza complessiva della parete
Spessore	Spessore della parete
H critica	Altezza come da punto 7.4.4.5.1 per traslazione momento (solo in Parete Sismica)
H critica V	Altezza della zona dissipativa (solo in Parete Sismica)
L totale	Larghezza di base della parete
L confinata	Lunghezza della zona dissipativa (solo in Parete Sismica)
Verif. N	Verifica di cui al punto 7.4.4.5.1 compressione semplice
Verif. N-M	Verifica di cui al punto 7.4.4.5.1 pressoflessione
Fattore V	Fattore di amplificazione del taglio di cui al punto 7.4.4.5.1
Diagramma V	Diagramma elaborato per effetto modi superiori come da fig. 7.4.4
Verif. V	Verifica di cui al punto 7.4.4.5.1 taglio (compressione cls, trazione acciaio, scorrimento in zona critica) (solo in Parete Sismica)
Verifica Snellezza	Verifica di cui al punto 7.4.4.5.1 limitazione compressione per prevenire l'instabilità (solo in Parete Debolmente Armata)
Prog. composta	Sigla per la progettazione composta

Sia per le verifiche degli elementi con progettazione di tipo "*Singolo Elemento …*" e "*Parete …*" è presente una tabella con i simboli di seguito descritti:

Nodo	Numero del nodo
Stato	Codice di verifica dell'elemento **ok** o **NV**
x/d	Rapporto tra posizione dell'asse neutro e altezza utile alla rottura della sezione (per sola flessione)
V N/M	Verifica delle sollecitazioni Normali (momento e sforzo normale)
Ver. rid	Rapporto Nd/Nu (Nu ottenuto con riduzione del 25% di fcd)
Af pr+	Quantità di armatura richiesta in direzione principale relativa alla faccia positiva (estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af pr-	Quantità di armatura richiesta in direzione principale relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec+	Quantità di armatura richiesta in direzione secondaria relativa alla faccia positiva

	(estradosso piastre) (valore derivante da calcolo o minimo normativo)
Af sec-	Quantità di armatura richiesta in direzione secondaria relativa alla faccia negativa (intradosso piastre) (valore derivante da calcolo o minimo normativo)
Nz No Nzo	Sforzi membranali per pareti e\o setti verticali
Mz Mo Mzo	Sforzi flessionali per pareti e\o setti verticali
Nx Ny Nxy	Sforzi membranali per gusci orizzontali
Mx Mx Mxy	Sforzi flessionali per gusci orizzontali

Nodo	Numero del nodo
Stato	Codice di verifica dell'elemento **ok, NV oppure ok Av** (verificata, ma con richiesta di armatura a taglio)
Max tau	Tensione tangenziale Massima
Ver V pr	Verifica a taglio nella direzione principale lato calcestruzzo
Ver V sec	Verifica a taglio nella direzione secondaria lato calcestruzzo
Af V pr	Armatura nella direzione principale
V pr-	Verifica dell'armatura nella direzione principale
Af V sec	Armatura nella direzione secondaria
V pr	Valore dell'azione di taglio in direzione principale
V sec	Valore dell'azione di taglio in direzione secondaria

Per le verifiche degli elementi con progettazione "*Parete Sismica o Parete Debolmente Armata*", oltre alla tabella con le verifiche per gli elementi con progettazione "*Singolo Elemento …*", è presente una tabella con i simboli di seguito descritti:

Quota	Ascissa verticale di riferimento
Af conf.	Numero e diametro armatura presente in una zona confinata
Af std	Diametro e passo armatura in zona non confinata (doppia maglia)
Af estremi	Diametro dei ferri di estremità del pannello; se posto uguale 0, viene utilizzato il diametro standard
Af V (ori)	Diametro e passo armatura orizzontale (doppia maglia)
Ver. N	Rapporto tra azione di calcolo e resistenza a compressione (normalizzato a 1 in quanto da confrontare con 40% in CDB e 35 % in CDA)
Ver. N/M	Rapporto tra azione di calcolo e resistenza a pressoflessione
Ver. V acc(7)	Rapporto tra azione di calcolo e resistenza a taglio-trazione per alfaS minore di 2 secondo paragrafo 7.4.4.5.1
Ver. V cls	Rapporto tra azione di calcolo e resistenza a taglio-compressione
Ver. V acc	Rapporto tra azione di calcolo e resistenza a taglio-trazione
Ver. V scorr.	Rapporto tra azione di calcolo e resistenza a taglio scorrimento
N add	Sforzo assiale di cui al punto 7.4.4.5.1 da sommare e sottrarre nelle verifiche quando q supera 2
N invil M invil	Inviluppo del Momento e Sforzo Normale come al punto 7.4.4.5.1 (informativo) (solo in Parete Sismica)

Quota	Ascissa verticale di riferimento
N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore
N v.Vacc, M v.Vacc, V v.Vacc,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. acc attinge il massimo valore
N v.Vscorr, M v.Vscorr, V v.Vscorr,	Valore dello sforzo assiale, momento e taglio per cui Ver. V. scorr.e

N v.N	Valore dello sforzo assiale per cui Ver. N attinge il massimo valore
N v.M/N, M v.M/N	Valore dello sforzo assiale e momento per cui Ver. N/M attinge il massimo valore
N v.M/N, M v.M/N Mo v.M/N	Valore dello sforzo assiale e dei momenti per cui Ver. N/M attinge il massimo valore (per le pareti estese debolmente armate)
N v.Vcls, V v.Vcls,	Valore dello sforzo assiale e taglio per cui Ver. V. cls attinge il massimo valore

Quota	Ascissa verticale di riferimento
CtgT Vcls	Valore di ctg(teta) adottato nella verifica V compressione cls
Vrsd Vcls	Valore della resistenza a taglio trazione (armatura di calcolo)
Vrcd Vcls	Valore della resistenza a taglio compressione
CtgT Vacc	Valore di ctg(teta) adottato nella verifica V trazione armatura
Vrsd Vacc	Valore della resistenza a taglio trazione (armatura presente)
Vrcd Vacc	Valore della resistenza a taglio compressione
Vdd	Valore del contributo alla resistenza allo scorrimento come da [7.4.20]
Vid	Valore del contributo alla resistenza allo scorrimento come da [7.4.21]
A s.i.	Somma delle aree di armature
Incli.	Angolo di inclinazione delle armature
Dist.	Distanza alla base tra le armature inclinate

Quota	Ascissa verticale di riferimento
V[7.4.16]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.16)
N M V	Sollecitazioni di calcolo della condizione più gravosa
Alfas	Rapporto di Taglio
Vrd,c	Resistenza a taglio degli elementi non armati
VRd,s	Resistenza a taglio nei confronti dello scorrimento
V[7.4.17]	Verifica a taglio-trazione dell'armatura dell'anima (7.4.17)
roH	Rapporto tra l'armatura orizzontale e l'area della sezione relativa di calcestruzzo
roV	Rapporto tra l'armatura verticale e l'area della sezione relativa di calcestruzzo
roN	Sforzo normale adimensionalizzato Ned/(bw fyd)

Per la verifica a *Punzonamento* è presente una tabella con i simboli di seguito descritti:

Nodo	Numero del nodo
Stato	Codice di verifica dell'elemento **ok** o **NV**
V. 6.47	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro resistente U1
V. 6.53	Fattore di sicurezza per la verifica per piastre prive di armature a taglio lungo il perimetro del pilastro U0
Beta	Fattore di incremento dovuto ai momenti flettenti
f. a fon	Fattore di amplificazione per le fondazioni (solo per gusci di fondazione)
f. Uout	Fattore di amplificazione dell'altezza utile per individuare il perimetro di verifica lungo il quale l'armatura a taglio non è richiesta
Aw tot	Quantitativo di armatura per la verifica di piastre munite di armatura (formula 6.52 dell'EC2)
Asw,min	Quantitativo minimo di armatura previsto dai dettagli costruttivi (formula 9.11 dell'EC2)
n. x serie	Numero di serie di armature
n.ser 0(R)	Numero di braccia delle armatura in direzione 0 (o numero di braccia radiale)
n.ser 90	Numero di braccia delle armatura in direzione 90 (solo se armatura cruciforme)
Rif. cmb	Riferimento combinazioni da cui si generano le verifiche più gravose

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
1	67.00	5	2	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
1	ok	0.05	3.15e-03	3.39e-03	10.1	10.1	10.1	10.1	-6.17e-03	-1.45e-03	-1.14e-03	53.7	-19.0	-47.8
4	ok	0.05	1.85e-02	3.42e-03	10.1	10.1	10.1	10.1	1.58e-02	2.16e-02	-5.66e-03	170.2	352.2	-156.8
6	ok	0.05	2.22e-02	4.64e-03	10.1	10.1	10.1	10.1	-3.60e-02	1.67e-02	-1.01e-02	-506.1	126.7	-164.0
8	ok	0.05	1.79e-02	8.42e-03	10.1	10.1	10.1	10.1	-62.5	-17.9	21.0	432.0	121.8	70.2
40	ok	0.05	4.11e-02	5.94e-03	10.1	10.1	10.1	10.1	-47.0	-7.0	22.4	798.8	-258.8	-253.3
42	ok	0.05	2.01e-02	5.41e-03	10.1	10.1	10.1	10.1	-46.0	-5.3	21.6	318.3	-227.0	-165.9
44	ok	0.05	8.08e-02	5.19e-03	10.1	10.1	10.1	10.1	0.1	-2.64e-02	-2.57e-02	1975.9	22.2	-139.4
46	ok	0.05	0.1	3.98e-03	10.1	10.1	10.1	10.1	-9.63e-02	1.47e-03	-2.45e-02	3041.9	-9.0	-192.0
48	ok	0.05	0.3	2.45e-03	10.1	10.1	10.1	10.1	-0.3	1.37e-02	-9.03e-04	-6176.8	139.9	-139.9
50	ok	0.05	0.1	3.71e-03	10.1	10.1	10.1	10.1	-0.1	6.04e-04	2.38e-02	3056.2	-8.1	193.7
52	ok	0.05	8.20e-02	4.71e-03	10.1	10.1	10.1	10.1	5.47e-02	-2.62e-02	2.51e-02	2006.1	20.4	140.2
54	ok	0.05	1.48e-02	4.97e-03	10.1	10.1	10.1	10.1	-40.6	-5.0	-21.7	189.9	-223.2	125.3
56	ok	0.05	1.29e-02	4.76e-03	10.1	10.1	10.1	10.1	-37.8	-5.2	21.8	-59.9	-250.1	-129.6
58	ok	0.05	8.13e-03	7.91e-03	10.1	10.1	10.1	10.1	-61.2	-21.4	-27.1	-107.7	-164.9	59.2
61	ok	0.05	2.10e-02	4.82e-03	10.1	10.1	10.1	10.1	-40.7	-10.1	-18.4	279.7	244.0	-260.0
64	ok	0.05	2.07e-02	4.88e-03	10.1	10.1	10.1	10.1	7.25e-02	9.96e-03	9.50e-03	492.3	188.1	73.6
67	ok	0.05	0.1	4.20e-03	10.1	10.1	10.1	10.1	-6.25e-02	-2.43e-02	-3.42e-02	2610.2	181.2	6.2
70	ok	0.05	0.2	2.81e-03	10.1	10.1	10.1	10.1	-0.2	3.73e-02	-9.80e-03	-4787.4	-82.8	-481.1
73	ok	0.05	0.2	2.71e-03	10.1	10.1	10.1	10.1	-0.2	3.72e-02	9.43e-03	-4784.1	-82.9	481.5
76	ok	0.05	0.1	3.82e-03	10.1	10.1	10.1	10.1	-0.1	-2.41e-02	3.33e-02	2630.4	180.9	-4.0
79	ok	0.05	2.06e-02	4.42e-03	10.1	10.1	10.1	10.1	7.76e-03	1.04e-02	-9.46e-03	482.7	186.9	-85.8
82	ok	0.05	1.95e-02	4.38e-03	10.1	10.1	10.1	10.1	-3.29e-02	1.69e-02	1.06e-02	-457.4	130.9	115.3
99	ok	0.05	1.95e-02	3.83e-03	10.1	10.1	10.1	10.1	-27.3	-7.4	-18.4	152.2	218.5	-291.6
100	ok	0.05	1.74e-02	3.96e-03	10.1	10.1	10.1	10.1	0.1	1.79e-02	9.50e-03	376.0	164.8	118.3
101	ok	0.05	2.81e-02	0.0	10.1	10.1	10.1	10.1	-6.82e-04	1.83e-02	-5.66e-03	353.3	388.9	-265.9
102	ok	0.05	1.63e-02	3.31e-03	10.1	10.1	10.1	10.1	-8.06e-03	-1.86e-02	-5.66e-03	292.6	84.9	-184.3
103	ok	0.05	1.20e-02	3.14e-03	10.1	10.1	10.1	10.1	0.8	-5.3	21.0	268.8	89.2	66.2
104	ok	0.05	3.92e-03	0.0	10.1	10.1	10.1	10.1	4.69e-04	-1.26e-04	-1.14e-03	-26.3	-35.0	-65.7
105	ok	0.05	4.80e-02	3.68e-03	10.1	10.1	10.1	10.1	-23.5	-2.3	22.4	926.3	-233.3	-474.4
106	ok	0.05	2.62e-02	4.07e-03	10.1	10.1	10.1	10.1	-29.8	-2.0	21.6	425.5	-205.6	-351.0
107	ok	0.05	8.56e-02	3.95e-03	10.1	10.1	10.1	10.1	5.16e-02	-3.81e-02	-2.57e-02	2088.1	44.7	-182.8
108	ok	0.05	9.89e-02	3.61e-03	10.1	10.1	10.1	10.1	0.1	8.72e-03	-3.42e-02	2431.4	145.4	10.4
109	ok	0.05	0.1	3.40e-03	10.1	10.1	10.1	10.1	-2.20e-02	1.63e-02	-2.45e-02	3320.3	46.7	-80.9
110	ok	0.05	0.2	3.12e-03	10.1	10.1	10.1	10.1	-0.4	1.37e-02	-9.80e-03	-4855.7	-96.5	-638.8
111	ok	0.05	0.3	2.82e-03	10.1	10.1	10.1	10.1	-0.3	-3.03e-03	-9.03e-04	-6203.7	134.5	-190.8
112	ok	0.05	0.2	3.04e-03	10.1	10.1	10.1	10.1	-0.4	1.39e-02	9.43e-03	-4852.4	-96.6	639.3
113	ok	0.05	0.1	3.25e-03	10.1	10.1	10.1	10.1	-5.39e-02	1.54e-02	2.38e-02	3334.7	47.6	83.1
114	ok	0.05	9.97e-02	3.41e-03	10.1	10.1	10.1	10.1	6.35e-02	8.87e-03	3.33e-02	2451.6	145.2	-7.7
115	ok	0.05	8.68e-02	3.71e-03	10.1	10.1	10.1	10.1	1.61e-03	-3.68e-02	2.51e-02	2118.8	42.9	184.6
116	ok	0.05	1.75e-02	3.73e-03	10.1	10.1	10.1	10.1	4.16e-02	1.72e-02	-9.46e-03	364.9	163.4	-132.6
117	ok	0.05	2.08e-02	3.87e-03	10.1	10.1	10.1	10.1	-26.8	-2.2	-21.7	296.5	-201.9	302.0
118	ok	0.05	2.43e-02	3.72e-03	10.1	10.1	10.1	10.1	-1.73e-02	2.00e-02	1.06e-02	-577.0	107.0	121.8
119	ok	0.05	1.81e-02	3.70e-03	10.1	10.1	10.1	10.1	-23.8	-2.4	21.8	52.8	-227.6	-322.9
120	ok	0.05	2.70e-02	3.48e-03	10.1	10.1	10.1	10.1	-2.81e-02	1.82e-02	-1.01e-02	-626.3	102.6	-172.2
163	ok	0.05	5.33e-02	1.30e-03	10.1	10.1	10.1	10.1	-6.8	81.1	22.4	1036.8	319.5	-525.4
164	ok	0.05	4.51e-02	3.41e-03	10.1	10.1	10.1	10.1	-30.4	76.4	22.4	909.4	294.0	-304.3
167	ok	0.05	4.82e-02	4.13e-04	10.1	10.1	10.1	10.1	0.3	82.6	-19.8	1092.3	263.4	230.8
168	ok	0.05	4.32e-02	4.67e-03	10.1	10.1	10.1	10.1	-36.7	75.2	-19.8	976.6	240.2	37.7
253	ok	0.05	6.60e-02	1.60e-03	10.1	10.1	10.1	10.1	0.1	1.59e-02	1.91e-02	1559.9	294.4	290.1
254	ok	0.05	6.05e-02	3.06e-03	10.1	10.1	10.1	10.1	0.1	1.95e-02	1.91e-02	1471.4	276.7	142.0
258	ok	0.05	8.69e-02	1.55e-03	10.1	10.1	10.1	10.1	6.17e-02	1.23e-02	-2.57e-02	2109.8	153.3	-227.7
259	ok	0.05	8.55e-02	2.94e-03	10.1	10.1	10.1	10.1	4.86e-02	9.72e-03	-2.48e-02	2079.0	147.2	-208.1
263	ok	0.05	0.1	9.99e-04	10.1	10.1	10.1	10.1	-2.29e-02	1.18e-02	-2.45e-02	3375.8	324.4	30.5
264	ok	0.05	0.1	1.70e-03	10.1	10.1	10.1	10.1	-9.72e-02	-3.08e-03	-2.45e-02	3097.4	268.7	-80.6
268	ok	0.05	0.1	6.98e-04	10.1	10.1	10.1	10.1	-0.3	-9.71e-03	-3.64e-02	1888.7	724.8	-1298.1
269	ok	0.05	9.13e-02	1.42e-03	10.1	10.1	10.1	10.1	-8.06e-02	3.31e-02	-3.64e-02	1636.4	674.3	-896.3
273	ok	0.05	0.3	7.98e-05	10.1	10.1	10.1	10.1	-0.3	-1.91e-03	-9.03e-04	-6229.1	7.4	-201.6
274	ok	0.05	0.3	2.58e-05	10.1	10.1	10.1	10.1	-0.3	1.48e-02	-9.03e-04	-6202.2	12.8	-150.7
278	ok	0.05	0.3	3.61e-05	10.1	10.1	10.1	10.1	-0.4	-1.39e-03	7.77e-04	-6228.1	7.2	202.0
279	ok	0.05	0.3	2.61e-05	10.1	10.1	10.1	10.1	-0.3	1.52e-02	7.77e-04	-6201.2	12.6	150.9
283	ok	0.05	0.1	4.98e-04	10.1	10.1	10.1	10.1	-0.3	-1.01e-02	3.54e-02	1898.0	725.3	1299.4
284	ok	0.05	9.11e-02	1.10e-03	10.1	10.1	10.1	10.1	-0.1	3.17e-02	3.54e-02	1645.9	674.9	897.3
288	ok	0.05	0.1	7.19e-04	10.1	10.1	10.1	10.1	-5.45e-02	1.22e-02	2.38e-02	3390.0	324.2	-28.3
289	ok	0.05	0.1	1.33e-03	10.1	10.1	10.1	10.1	-0.1	-2.65e-03	2.38e-02	3111.5	268.5	82.3
293	ok	0.05	8.82e-02	1.23e-03	10.1	10.1	10.1	10.1	1.14e-02	1.20e-02	2.51e-02	2141.0	154.0	229.7

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
294	ok	0.05	8.66e-02	2.40e-03	10.1	10.1	10.1	10.1	2.95e-04	9.76e-03	2.37e-02	2106.2	147.0	211.0
298	ok	0.05	6.70e-02	1.27e-03	10.1	10.1	10.1	10.1	3.76e-02	1.59e-02	-1.92e-02	1580.7	294.1	-297.3
299	ok	0.05	6.14e-02	2.50e-03	10.1	10.1	10.1	10.1	5.88e-02	2.02e-02	-1.92e-02	1491.0	276.2	-147.8
303	ok	0.05	2.72e-02	1.48e-03	10.1	10.1	10.1	10.1	-10.3	80.8	-21.7	384.9	239.9	344.6
304	ok	0.05	1.94e-02	2.78e-03	10.1	10.1	10.1	10.1	-24.0	78.0	-21.7	278.3	218.6	167.9
308	ok	0.05	2.38e-02	1.48e-03	10.1	10.1	10.1	10.1	-10.2	80.7	21.9	268.8	259.1	-310.6
309	ok	0.05	1.87e-02	2.77e-03	10.1	10.1	10.1	10.1	-2.47e-02	1.05e-02	-1.49e-02	-435.0	105.3	-117.9
313	ok	0.05	2.52e-02	1.29e-03	10.1	10.1	10.1	10.1	-1.83e-02	1.52e-02	1.06e-02	-580.3	90.7	169.7
314	ok	0.05	2.05e-02	2.53e-03	10.1	10.1	10.1	10.1	-3.39e-02	1.21e-02	1.06e-02	-460.7	114.6	163.2
318	ok	0.05	2.82e-02	1.21e-03	10.1	10.1	10.1	10.1	-2.91e-02	1.35e-02	-1.01e-02	-630.4	82.1	-220.3
319	ok	0.05	2.34e-02	2.52e-03	10.1	10.1	10.1	10.1	-3.69e-02	1.19e-02	-1.01e-02	-510.2	106.1	-212.1
323	ok	0.05	2.63e-02	3.65e-04	10.1	10.1	10.1	10.1	-0.6	81.9	16.3	-577.9	123.7	115.2
324	ok	0.05	2.14e-02	4.70e-03	10.1	10.1	10.1	10.1	-22.3	77.6	16.3	-461.9	146.9	99.2
327	ok	0.05	2.66e-02	1.74e-03	10.1	10.1	10.1	10.1	-12.8	80.6	-22.2	518.0	266.4	237.2
328	ok	0.05	1.82e-02	3.27e-03	10.1	10.1	10.1	10.1	-29.0	77.4	-22.2	405.2	243.8	48.3
331	ok	0.05	3.26e-02	1.75e-03	10.1	10.1	10.1	10.1	-13.2	80.9	21.6	518.0	257.3	-393.9
332	ok	0.05	2.45e-02	3.29e-03	10.1	10.1	10.1	10.1	-29.5	77.6	21.6	410.9	235.9	-208.7
Nodo		**x/d**	**V N/M**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N x**	**N y**	**N xy**	**M x**	**M y**	**M xy**
									-62.54	-21.43	-27.10	-6229.12	-258.80	-1298.13
		0.05	0.25	8.42e-03	10.05	10.05	10.05	10.05	0.78	82.63	22.43	3389.98	725.28	1299.42

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
1	ok	0.04						
4	ok	0.13						
6	ok	0.14						
8	ok	0.21						
40	ok	0.25						
42	ok	0.20						
44	ok	0.32						
46	ok	0.75						
48	ok	0.17						
50	ok	0.76						
52	ok	0.32						
54	ok	0.23						
56	ok	0.20						
58	ok	0.24						
61	ok	0.14						
64	ok	0.23						
67	ok	0.29						
70	ok	0.82						
73	ok	0.82						
76	ok	0.29						
79	ok	0.24						
82	ok	0.14						
99	ok	0.14						
100	ok	0.23						
101	ok	0.13						
102	ok	0.24						
103	ok	0.21						
104	ok	0.04						
105	ok	0.25						
106	ok	0.20						
107	ok	0.32						
108	ok	0.29						
109	ok	0.75						
110	ok	0.82						
111	ok	0.17						
112	ok	0.82						
113	ok	0.76						
114	ok	0.29						
115	ok	0.32						
116	ok	0.24						
117	ok	0.23						
118	ok	0.14						
119	ok	0.20						
120	ok	0.14						
163	ok	0.22						
164	ok	0.22						

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
167	ok	0.25						
168	ok	0.25						
253	ok	0.32						
254	ok	0.32						
258	ok	0.13						
259	ok	0.13						
263	ok	0.31						
264	ok	0.31						
268	ok	0.82						
269	ok	0.82						
273	ok	0.49						
274	ok	0.49						
278	ok	0.49						
279	ok	0.49						
283	ok	0.82						
284	ok	0.82						
288	ok	0.31						
289	ok	0.31						
293	ok	0.13						
294	ok	0.13						
298	ok	0.32						
299	ok	0.32						
303	ok	0.15						
304	ok	0.15						
308	ok	0.23						
309	ok	0.23						
313	ok	0.20						
314	ok	0.20						
318	ok	0.20						
319	ok	0.20						
323	ok	0.24						
324	ok	0.24						
327	ok	0.20						
328	ok	0.20						
331	ok	0.15						
332	ok	0.15						
Nodo		**Max tau**	**Ver V pr**	**Ver V sec**	**Af V pr**	**Af V sec**	**V pr**	**V sec**
		0.82						

Macro Guscio	Spessore	Id Materiale	Id Criterio	Progettazione
	cm			
2	40.00	5	2	Singolo elemento

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
									daN/cm	daN/cm	daN/cm	daN	daN	daN
2	ok	0.09	6.57e-03	6.18e-05	10.1	10.1	10.1	10.1	-0.4	0.8	8.30e-02	-24.8	-17.5	68.4
3	ok	0.09	2.30e-02	0.0	10.1	10.1	10.1	10.1	1.38e-02	1.17e-02	5.27e-03	132.4	259.6	108.1
5	ok	0.09	0.1	8.69e-04	10.1	10.1	10.1	10.1	-0.4	12.7	-5.1	599.0	1680.5	-312.3
7	ok	0.09	1.33e-02	2.18e-05	10.1	10.1	10.1	10.1	3.04e-02	1.66e-02	-2.07e-02	166.2	54.4	50.1
9	ok	0.09	1.80e-02	7.14e-05	10.1	10.1	10.1	10.1	-3.42e-03	7.96e-02	-2.62e-03	-229.6	-82.9	60.7
10	ok	0.09	0.1	8.41e-04	10.1	10.1	10.1	10.1	-5.4	11.3	-1.0	699.9	1474.5	-321.1
11	ok	0.09	0.1	1.68e-03	10.1	10.1	10.1	10.1	1.4	-5.9	-7.7	602.1	1284.0	358.7
12	ok	0.09	0.1	1.15e-03	10.1	10.1	10.1	10.1	0.4	8.47e-02	0.2	1449.2	1275.5	422.5
13	ok	0.09	0.2	1.69e-03	10.1	10.1	10.1	10.1	0.4	2.65e-02	-0.1	2212.9	1676.0	26.4
14	ok	0.09	0.1	1.74e-03	10.1	10.1	10.1	10.1	-10.7	12.9	2.2	527.4	1329.0	-268.6
15	ok	0.09	8.89e-02	1.28e-03	10.1	10.1	10.1	10.1	8.5	-6.5	-5.4	392.4	1153.9	293.0
16	ok	0.09	9.81e-02	1.30e-03	10.1	10.1	10.1	10.1	-7.2	13.3	4.5	480.9	1288.1	-240.1
17	ok	0.09	8.83e-02	1.42e-03	10.1	10.1	10.1	10.1	5.7	-5.9	-1.6	397.3	1151.7	275.5
18	ok	0.09	0.1	1.68e-03	10.1	10.1	10.1	10.1	-9.5	13.7	5.6	789.0	1316.7	-219.5
19	ok	0.09	8.96e-02	1.27e-03	10.1	10.1	10.1	10.1	7.5	-6.3	5.4	714.6	1142.7	-257.4
20	ok	0.09	9.78e-02	1.53e-03	10.1	10.1	10.1	10.1	-9.4	14.1	-2.9	506.0	1278.9	240.7
21	ok	0.09	8.72e-02	1.10e-03	10.1	10.1	10.1	10.1	7.3	-5.9	4.0	383.2	1135.8	-279.4
22	ok	0.09	0.1	1.36e-03	10.1	10.1	10.1	10.1	0.4	8.70e-02	-0.2	1446.0	1274.9	-420.9
23	ok	0.09	0.2	1.75e-03	10.1	10.1	10.1	10.1	0.4	2.89e-02	0.2	2211.8	1677.2	-25.7

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
24	ok	0.09	0.1	6.90e-04	10.1	10.1	10.1	10.1	-0.1	25.3	11.3	537.3	1310.5	-297.2
25	ok	0.09	8.72e-02	1.05e-03	10.1	10.1	10.1	10.1	-0.4	-3.4	-1.3	358.3	1068.3	366.3
26	ok	0.09	0.1	7.85e-05	10.1	10.1	10.1	10.1	-0.2	1.69e-02	2.25e-03	-1575.1	-135.7	-41.9
27	ok	0.09	0.2	1.03e-04	10.1	10.1	10.1	10.1	-0.5	-1.22e-03	-4.42e-03	-2393.5	-369.4	30.4
28	ok	0.09	9.94e-02	1.43e-03	10.1	10.1	10.1	10.1	-7.9	14.3	-5.4	793.7	1296.0	213.1
29	ok	0.09	8.81e-02	1.23e-03	10.1	10.1	10.1	10.1	5.6	-5.9	-5.2	714.3	1126.6	246.0
30	ok	0.09	9.33e-02	9.50e-04	10.1	10.1	10.1	10.1	1.0	2.3	-7.7	479.2	1219.1	250.4
31	ok	0.09	8.64e-02	4.64e-04	10.1	10.1	10.1	10.1	-1.0	3.0	3.4	444.6	1125.1	-248.3
32	ok	0.09	0.1	1.06e-03	10.1	10.1	10.1	10.1	-1.8	3.3	7.1	1257.7	1320.3	-272.4
33	ok	0.09	0.1	3.82e-04	10.1	10.1	10.1	10.1	-0.3	1.74e-02	3.02e-03	-1540.2	-306.4	-285.1
34	ok	0.09	0.1	3.00e-04	10.1	10.1	10.1	10.1	-0.3	1.75e-02	-3.49e-03	-1539.9	-306.6	285.3
35	ok	0.09	0.1	9.61e-04	10.1	10.1	10.1	10.1	-1.9	3.7	-6.5	1257.3	1308.4	266.2
36	ok	0.09	8.52e-02	5.04e-04	10.1	10.1	10.1	10.1	-1.2	3.7	-3.8	452.1	1109.5	238.0
37	ok	0.09	8.74e-02	5.51e-04	10.1	10.1	10.1	10.1	-0.7	3.3	4.4	392.5	1141.7	-247.8
38	ok	0.09	8.45e-02	9.40e-04	10.1	10.1	10.1	10.1	1.1	4.1	8.5	398.9	1098.1	-256.3
39	ok	0.09	3.73e-02	2.60e-04	10.1	10.1	10.1	10.1	8.57e-02	-3.76e-02	3.01e-02	457.2	-1.8	130.2
41	ok	0.09	1.12e-02	7.35e-05	10.1	10.1	10.1	10.1	23.9	-7.96e-03	1.2	119.2	64.8	53.6
43	ok	0.09	4.24e-02	7.19e-05	10.1	10.1	10.1	10.1	-1.39e-04	-2.88e-02	2.52e-02	580.9	13.1	80.5
45	ok	0.09	0.1	2.45e-04	10.1	10.1	10.1	10.1	-0.2	-1.86e-02	8.49e-03	1535.7	23.0	-129.6
47	ok	0.09	0.2	8.40e-04	10.1	10.1	10.1	10.1	-0.6	-6.65e-03	-2.28e-03	-2498.3	-64.9	42.5
49	ok	0.09	0.1	2.54e-04	10.1	10.1	10.1	10.1	-0.2	-1.90e-02	-7.96e-03	1536.8	23.1	130.3
51	ok	0.09	4.30e-02	8.42e-05	10.1	10.1	10.1	10.1	-3.09e-02	-2.81e-02	-2.42e-02	589.4	12.9	-79.7
53	ok	0.09	1.05e-02	4.09e-05	10.1	10.1	10.1	10.1	7.21e-03	-2.99e-02	-2.34e-02	111.5	-17.6	-63.7
55	ok	0.09	9.76e-03	1.66e-04	10.1	10.1	10.1	10.1	13.7	-0.6	2.6	98.4	55.1	53.4
57	ok	0.09	1.21e-02	1.39e-04	10.1	10.1	10.1	10.1	1.5	-0.3	1.2	105.3	70.7	79.3
59	ok	0.09	2.04e-02	1.67e-04	10.1	10.1	10.1	10.1	5.26e-02	0.1	-1.06e-02	-89.5	275.3	57.1
60	ok	0.09	1.33e-02	0.0	10.1	10.1	10.1	10.1	1.67e-02	1.07e-02	1.62e-02	46.4	110.2	102.0
62	ok	0.09	1.66e-02	0.0	10.1	10.1	10.1	10.1	6.79e-02	0.1	1.57e-03	-230.8	108.8	6.1
63	ok	0.09	1.16e-02	2.63e-06	10.1	10.1	10.1	10.1	3.90e-03	9.10e-03	1.81e-02	-136.0	70.0	78.7
65	ok	0.09	1.58e-02	0.0	10.1	10.1	10.1	10.1	0.1	8.81e-02	3.49e-02	183.6	190.3	32.8
66	ok	0.09	7.56e-02	3.02e-05	10.1	10.1	10.1	10.1	-0.2	-3.21e-02	3.33e-02	1046.1	169.9	-93.4
68	ok	0.09	5.52e-02	2.58e-04	10.1	10.1	10.1	10.1	-0.2	5.71e-02	1.65e-02	734.7	-297.0	-195.7
69	ok	0.09	0.1	5.40e-04	10.1	10.1	10.1	10.1	-0.5	1.61e-02	1.59e-02	-1872.6	-86.8	-111.7
71	ok	0.09	0.1	5.14e-05	10.1	10.1	10.1	10.1	-0.3	1.51e-02	2.63e-03	-2053.5	-418.9	-42.5
72	ok	0.09	0.1	6.75e-04	10.1	10.1	10.1	10.1	-0.5	1.61e-02	-1.58e-02	-1872.7	-86.9	112.1
74	ok	0.09	5.54e-02	1.95e-04	10.1	10.1	10.1	10.1	-0.2	5.60e-02	-1.62e-02	736.9	-296.4	196.6
75	ok	0.09	7.59e-02	3.30e-05	10.1	10.1	10.1	10.1	-0.2	-3.15e-02	-3.22e-02	1049.6	169.7	94.2
77	ok	0.09	1.60e-02	0.0	10.1	10.1	10.1	10.1	7.33e-02	8.83e-02	-3.21e-02	191.9	192.0	-31.5
78	ok	0.09	1.15e-02	8.99e-06	10.1	10.1	10.1	10.1	-4.70e-02	8.18e-03	-1.59e-02	-135.2	69.1	-76.9
80	ok	0.09	1.96e-02	0.0	10.1	10.1	10.1	10.1	4.42e-03	0.1	5.65e-03	-272.7	75.3	-7.5
81	ok	0.09	1.59e-02	8.85e-06	10.1	10.1	10.1	10.1	-4.87e-02	1.36e-02	1.66e-02	-216.5	76.6	39.1
83	ok	0.09	2.00e-02	3.34e-06	10.1	10.1	10.1	10.1	-1.76e-02	0.1	-8.92e-03	-277.7	70.5	12.0
84	ok	0.09	1.95e-02	9.18e-06	10.1	10.1	10.1	10.1	-5.53e-02	1.18e-02	1.41e-02	-241.2	71.5	93.0
85	ok	0.09	1.79e-02	3.05e-05	10.1	10.1	10.1	10.1	0.2	26.8	3.4	-72.7	-208.7	-51.4
86	ok	0.09	0.1	2.51e-04	10.1	10.1	10.1	10.1	-4.40e-02	3.93e-02	1.79e-02	670.0	1353.8	178.2
87	ok	0.09	0.1	0.0	10.1	10.1	10.1	10.1	13.1	91.5	18.8	490.3	1075.3	-469.2
88	ok	0.09	2.19e-02	9.79e-04	10.1	10.1	10.1	10.1	-1.79e-03	5.79e-02	1.79e-02	-82.5	248.7	-100.6
89	ok	0.09	3.20e-02	1.37e-06	10.1	10.1	10.1	10.1	-6.01e-03	9.25e-03	5.00e-03	65.5	418.0	-105.4
90	ok	0.09	2.45e-02	1.24e-03	10.1	10.1	10.1	10.1	-7.4	29.2	-0.7	-157.8	282.4	-113.7
91	ok	0.09	2.05e-02	1.40e-03	10.1	10.1	10.1	10.1	-8.6	30.1	-0.2	-163.7	238.7	23.6
92	ok	0.09	2.75e-02	1.11e-03	10.1	10.1	10.1	10.1	7.83e-02	4.90e-03	-1.35e-02	334.5	156.0	-105.8
93	ok	0.09	9.34e-02	4.63e-04	10.1	10.1	10.1	10.1	-0.2	3.87e-02	-1.65e-03	-1168.2	199.3	-453.3
94	ok	0.09	9.34e-02	3.13e-04	10.1	10.1	10.1	10.1	-0.2	3.81e-02	1.28e-03	-1167.6	199.5	453.7
95	ok	0.09	2.78e-02	8.69e-04	10.1	10.1	10.1	10.1	2.99e-03	-6.04e-03	1.24e-02	364.3	161.8	63.2
96	ok	0.09	1.92e-02	1.17e-03	10.1	10.1	10.1	10.1	-7.1	30.2	-0.2	-174.7	223.5	-37.3
97	ok	0.09	2.03e-02	1.17e-03	10.1	10.1	10.1	10.1	-7.1	30.0	0.3	-242.7	216.4	38.6
98	ok	0.09	2.13e-02	6.02e-04	10.1	10.1	10.1	10.1	1.2	29.3	0.3	-259.7	215.1	-70.4
99	ok	0.09	2.81e-02	1.67e-03	10.1	10.1	10.1	10.1	-9.6	28.8	-1.6	89.5	331.9	-119.8
100	ok	0.09	2.18e-02	1.77e-03	10.1	10.1	10.1	10.1	-11.2	29.6	1.3	97.2	290.9	20.9
101	ok	0.09	8.71e-02	0.0	10.1	10.1	10.1	10.1	20.8	93.0	18.8	254.1	1028.0	-252.8
102	ok	0.09	5.03e-02	1.45e-05	10.1	10.1	10.1	10.1	8.0	43.9	0.5	-19.8	-183.8	42.7
103	ok	0.09	1.28e-02	1.54e-06	10.1	10.1	10.1	10.1	10.0	44.5	-8.9	79.3	129.3	-19.7
104	ok	0.09	8.42e-03	0.0	10.1	10.1	10.1	10.1	6.78e-04	1.92e-03	2.96e-03	-14.4	-51.3	-82.7
105	ok	0.09	6.09e-02	9.28e-04	10.1	10.1	10.1	10.1	-1.82e-02	-0.2	8.44e-02	396.3	796.3	-59.6
106	ok	0.09	4.89e-02	1.46e-03	10.1	10.1	10.1	10.1	-9.1	42.3	4.2	42.1	-286.0	-111.9
107	ok	0.09	4.57e-02	1.30e-03	10.1	10.1	10.1	10.1	-7.3	42.7	6.8	263.6	-316.5	-46.0
108	ok	0.09	3.99e-02	1.35e-03	10.1	10.1	10.1	10.1	-7.0	29.9	4.2	404.9	260.8	-35.8
109	ok	0.09	0.1	4.78e-04	10.1	10.1	10.1	10.1	-1.51e-02	-3.51e-04	-0.2	939.3	1173.6	-291.5
110	ok	0.09	8.14e-02	3.61e-04	10.1	10.1	10.1	10.1	-0.2	4.53e-02	-1.65e-03	-981.8	236.6	-462.0
111	ok	0.09	9.31e-02	3.21e-05	10.1	10.1	10.1	10.1	-0.2	1.20e-02	8.81e-05	-1298.0	137.8	40.8
112	ok	0.09	8.14e-02	1.96e-04	10.1	10.1	10.1	10.1	-0.2	4.46e-02	1.28e-03	-981.1	236.8	462.4
113	ok	0.09	0.1	2.53e-04	10.1	10.1	10.1	10.1	-3.42e-02	-8.68e-04	0.2	942.4	1174.1	293.1
114	ok	0.09	4.03e-02	1.05e-03	10.1	10.1	10.1	10.1	-5.2	30.0	-3.8	407.8	259.1	34.7
115	ok	0.09	4.58e-02	9.82e-04	10.1	10.1	10.1	10.1	-5.3	42.5	-6.5	272.5	-293.0	39.6

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
116	ok	0.09	2.09e-02	1.47e-03	10.1	10.1	10.1	10.1	-9.0	29.8	-1.5	89.5	276.3	-34.0
117	ok	0.09	4.70e-02	1.20e-03	10.1	10.1	10.1	10.1	-7.3	42.2	-4.5	17.8	-269.3	73.6
118	ok	0.09	1.91e-02	1.46e-03	10.1	10.1	10.1	10.1	-9.0	29.6	1.4	-58.7	253.2	33.5
119	ok	0.09	4.72e-02	1.02e-03	10.1	10.1	10.1	10.1	-5.6	41.7	5.2	-32.0	-264.9	-76.5
120	ok	0.09	1.95e-02	1.09e-03	10.1	10.1	10.1	10.1	-7.0	27.7	-5.71e-03	-73.0	252.4	-61.3
121	ok	0.09	2.15e-02	0.0	10.1	10.1	10.1	10.1	6.11e-02	3.91e-02	4.63e-03	-287.7	234.8	50.7
122	ok	0.09	2.43e-02	0.0	10.1	10.1	10.1	10.1	5.28e-02	1.11e-02	1.90e-02	-337.9	155.2	31.0
123	ok	0.09	4.21e-02	5.55e-06	10.1	10.1	10.1	10.1	6.64e-02	-3.03e-03	3.14e-02	582.4	284.1	42.5
124	ok	0.09	0.1	1.60e-04	10.1	10.1	10.1	10.1	-0.5	3.09e-02	6.82e-03	-1832.8	-148.9	-191.8
125	ok	0.09	0.1	1.85e-04	10.1	10.1	10.1	10.1	-0.5	3.08e-02	-7.19e-03	-1832.7	-149.2	192.2
126	ok	0.09	4.24e-02	6.90e-06	10.1	10.1	10.1	10.1	4.44e-02	-3.02e-03	-3.00e-02	586.3	284.1	-41.4
127	ok	0.09	2.44e-02	1.33e-06	10.1	10.1	10.1	10.1	4.29e-03	1.10e-02	-1.58e-02	-338.6	153.1	-25.5
128	ok	0.09	2.95e-02	4.27e-06	10.1	10.1	10.1	10.1	-2.33e-02	1.60e-02	-1.01e-02	-409.5	164.0	10.7
129	ok	0.09	3.17e-02	6.06e-06	10.1	10.1	10.1	10.1	-3.72e-02	1.41e-02	-9.59e-03	-426.0	137.2	81.3
130	ok	0.09	6.24e-02	9.25e-05	10.1	10.1	10.1	10.1	2.60e-02	9.15e-04	3.77e-02	544.1	595.6	-46.4
131	ok	0.09	3.35e-02	2.98e-06	10.1	10.1	10.1	10.1	-8.18e-03	1.99e-02	-9.26e-03	-56.3	342.5	256.4
132	ok	0.09	4.15e-02	5.74e-05	10.1	10.1	10.1	10.1	1.2	10.9	-2.5	83.2	525.0	155.1
133	ok	0.09	9.39e-02	4.31e-04	10.1	10.1	10.1	10.1	1.57e-02	8.64e-02	4.81e-02	379.4	1277.2	-177.3
134	ok	0.09	7.20e-02	4.93e-04	10.1	10.1	10.1	10.1	7.4	25.7	-9.8	352.9	756.1	-363.1
135	ok	0.09	8.10e-02	4.26e-05	10.1	10.1	10.1	10.1	0.1	8.58e-02	4.81e-02	543.2	816.2	-78.2
136	ok	0.09	6.83e-02	1.25e-05	10.1	10.1	10.1	10.1	2.8	26.9	-6.4	588.5	652.1	321.2
137	ok	0.09	0.1	2.27e-04	10.1	10.1	10.1	10.1	4.9	13.4	-9.7	488.1	1432.1	-243.2
138	ok	0.09	3.55e-02	5.43e-06	10.1	10.1	10.1	10.1	8.8	67.5	11.3	110.4	412.6	121.5
139	ok	0.09	9.64e-02	6.13e-04	10.1	10.1	10.1	10.1	6.1	26.5	6.0	292.3	1261.5	-221.2
140	ok	0.09	9.22e-02	5.88e-04	10.1	10.1	10.1	10.1	1.49e-02	5.11e-02	1.79e-02	205.7	1260.9	169.6
141	ok	0.09	5.55e-02	4.06e-04	10.1	10.1	10.1	10.1	-2.5	27.7	-1.4	23.6	352.5	-73.7
142	ok	0.09	9.62e-02	4.13e-04	10.1	10.1	10.1	10.1	-1.6	14.7	-4.2	332.9	1290.1	-165.7
143	ok	0.09	4.75e-02	6.44e-04	10.1	10.1	10.1	10.1	-4.1	28.9	1.6	58.2	307.0	-20.7
144	ok	0.09	9.67e-02	5.74e-04	10.1	10.1	10.1	10.1	-2.0	15.2	5.6	623.1	1283.5	167.6
145	ok	0.09	8.70e-02	6.07e-04	10.1	10.1	10.1	10.1	2.33e-02	5.22e-02	-2.74e-02	1067.1	853.5	-231.7
146	ok	0.09	0.1	8.11e-04	10.1	10.1	10.1	10.1	-1.2	15.0	2.6	1106.0	1579.3	-448.9
147	ok	0.09	0.1	5.36e-04	10.1	10.1	10.1	10.1	-0.3	1.48e-02	1.54e-02	-1468.0	-326.9	-225.4
148	ok	0.09	0.1	1.08e-04	10.1	10.1	10.1	10.1	-0.3	1.65e-02	3.54e-03	-1830.0	-373.3	-43.9
149	ok	0.09	0.1	4.18e-04	10.1	10.1	10.1	10.1	-0.3	1.48e-02	-1.57e-02	-1467.5	-326.8	225.6
150	ok	0.09	0.1	6.60e-04	10.1	10.1	10.1	10.1	-0.7	15.2	-2.0	1105.3	1568.3	448.9
151	ok	0.09	8.73e-02	4.85e-04	10.1	10.1	10.1	10.1	8.87e-04	5.22e-02	2.63e-02	1071.0	854.2	233.0
152	ok	0.09	9.52e-02	4.59e-04	10.1	10.1	10.1	10.1	-1.4	15.6	-5.4	622.4	1261.8	-164.9
153	ok	0.09	4.78e-02	5.51e-04	10.1	10.1	10.1	10.1	4.08e-02	4.43e-02	-1.20e-02	134.3	138.0	76.3
154	ok	0.09	9.19e-02	3.84e-04	10.1	10.1	10.1	10.1	-1.9	15.6	3.1	293.3	1236.3	148.5
155	ok	0.09	5.07e-02	5.23e-04	10.1	10.1	10.1	10.1	-2.9	28.8	1.8	-39.2	275.3	-33.6
156	ok	0.09	9.27e-02	1.22e-04	10.1	10.1	10.1	10.1	-0.7	14.6	-1.1	290.2	1249.9	-147.6
157	ok	0.09	4.77e-02	0.0	10.1	10.1	10.1	10.1	3.0	27.3	4.4	-41.6	266.6	-68.5
158	ok	0.09	8.10e-02	2.33e-04	10.1	10.1	10.1	10.1	5.58e-02	0.3	-4.17e-02	469.0	1014.3	277.2
159	ok	0.09	5.64e-02	1.43e-05	10.1	10.1	10.1	10.1	-3.76e-03	1.61e-02	9.79e-02	360.9	677.9	-215.8
160	ok	0.09	6.22e-02	4.01e-06	10.1	10.1	10.1	10.1	0.1	4.06e-02	9.79e-02	798.1	765.4	-84.6
161	ok	0.09	6.22e-02	0.0	10.1	10.1	10.1	10.1	4.2	18.5	-6.9	360.4	625.2	342.7
162	ok	0.09	8.71e-02	3.95e-04	10.1	10.1	10.1	10.1	7.2	3.5	-7.7	337.0	1190.7	-125.1
163	ok	0.09	6.57e-02	1.56e-03	10.1	10.1	10.1	10.1	-8.3	27.5	3.4	345.1	690.5	-342.9
165	ok	0.09	5.21e-02	8.10e-04	10.1	10.1	10.1	10.1	4.0	18.4	-5.9	308.3	614.8	206.3
166	ok	0.09	8.52e-02	1.06e-03	10.1	10.1	10.1	10.1	-1.9	28.8	3.4	551.3	731.7	-522.6
167	ok	0.09	4.95e-02	9.18e-04	10.1	10.1	10.1	10.1	6.6	27.7	-8.9	167.0	567.8	138.5
169	ok	0.09	8.78e-02	2.12e-04	10.1	10.1	10.1	10.1	-6.43e-02	3.12e-02	-4.17e-02	888.1	843.1	359.8
170	ok	0.09	2.27e-02	3.51e-06	10.1	10.1	10.1	10.1	-8.37e-03	1.10e-02	-1.65e-02	125.9	177.6	163.0
171	ok	0.09	4.99e-02	4.48e-05	10.1	10.1	10.1	10.1	7.29e-02	9.49e-02	-9.61e-02	687.5	541.9	-37.1
172	ok	0.09	3.98e-02	1.17e-06	10.1	10.1	10.1	10.1	0.1	1.94e-02	-2.94e-02	554.5	213.5	20.1
173	ok	0.09	9.23e-02	1.45e-03	10.1	10.1	10.1	10.1	2.68e-02	-0.2	5.73e-02	730.6	1014.6	244.0
174	ok	0.09	0.1	1.47e-04	10.1	10.1	10.1	10.1	3.4	13.4	-5.1	424.7	1645.7	178.9
175	ok	0.09	9.27e-02	2.60e-06	10.1	10.1	10.1	10.1	3.94e-02	6.45e-02	-3.85e-02	196.9	1293.7	-32.6
176	ok	0.09	7.91e-02	7.07e-04	10.1	10.1	10.1	10.1	1.31e-02	7.44e-02	-1.06e-02	434.3	840.7	420.2
177	ok	0.09	1.29e-02	2.91e-06	10.1	10.1	10.1	10.1	-1.11e-03	-1.87e-02	-8.83e-05	-53.3	5.7	153.9
178	ok	0.09	6.50e-02	0.0	10.1	10.1	10.1	10.1	7.49e-02	6.09e-02	5.73e-02	638.1	551.8	309.2
179	ok	0.09	4.18e-02	1.35e-06	10.1	10.1	10.1	10.1	9.70e-02	1.88e-02	3.01e-02	503.4	229.1	169.2
180	ok	0.09	2.15e-02	0.0	10.1	10.1	10.1	10.1	3.56e-02	9.50e-03	-5.54e-03	-128.7	242.2	25.7
181	ok	0.09	3.74e-02	0.0	10.1	10.1	10.1	10.1	7.30e-02	5.91e-02	-5.85e-02	309.4	438.5	-132.9
182	ok	0.09	1.65e-02	1.74e-06	10.1	10.1	10.1	10.1	7.75e-02	1.10e-02	-2.27e-02	183.9	178.2	-49.1
183	ok	0.09	5.47e-02	2.00e-06	10.1	10.1	10.1	10.1	3.43e-02	2.56e-02	-3.79e-02	489.3	622.5	197.0
184	ok	0.09	8.21e-02	1.02e-03	10.1	10.1	10.1	10.1	15.9	-5.0	3.1	347.8	1144.9	73.8
185	ok	0.09	4.18e-02	1.24e-06	10.1	10.1	10.1	10.1	3.22e-02	4.49e-02	1.90e-02	-157.0	330.6	155.6
186	ok	0.09	2.02e-02	2.85e-06	10.1	10.1	10.1	10.1	7.35e-02	1.23e-02	2.50e-02	164.9	174.4	112.6
187	ok	0.09	4.79e-02	4.21e-06	10.1	10.1	10.1	10.1	6.14e-02	2.21e-02	6.59e-02	464.3	581.6	-126.1
188	ok	0.09	1.63e-02	0.0	10.1	10.1	10.1	10.1	2.43e-02	5.38e-03	1.90e-02	-186.0	185.6	74.5
189	ok	0.09	4.27e-02	0.0	10.1	10.1	10.1	10.1	2.81e-02	3.82e-02	-2.83e-02	509.3	420.8	-123.4
190	ok	0.09	2.85e-02	2.89e-06	10.1	10.1	10.1	10.1	2.20e-02	7.16e-03	-1.44e-02	393.4	184.5	-32.6
191	ok	0.09	5.84e-02	0.0	10.1	10.1	10.1	10.1	4.99e-02	1.57e-02	-3.11e-02	672.0	591.2	179.5

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
192	ok	0.09	8.17e-02	9.98e-04	10.1	10.1	10.1	10.1	14.1	-5.0	5.4	679.3	1135.6	66.5
193	ok	0.09	5.94e-02	8.08e-06	10.1	10.1	10.1	10.1	-3.05e-02	4.02e-02	2.68e-02	571.1	371.4	131.2
194	ok	0.09	4.65e-02	1.31e-05	10.1	10.1	10.1	10.1	-7.51e-02	-6.12e-03	2.70e-02	625.4	153.0	110.3
195	ok	0.09	6.89e-02	1.04e-05	10.1	10.1	10.1	10.1	-2.02e-02	2.47e-02	6.52e-02	910.2	620.1	-133.7
196	ok	0.09	6.74e-02	9.74e-06	10.1	10.1	10.1	10.1	-3.31e-02	-2.29e-02	3.14e-02	936.7	355.0	-50.3
197	ok	0.09	0.1	4.83e-05	10.1	10.1	10.1	10.1	-0.2	-8.91e-02	0.2	1833.3	831.2	-382.6
198	ok	0.09	0.1	3.23e-05	10.1	10.1	10.1	10.1	-0.2	5.70e-03	8.49e-03	1598.9	338.8	-205.1
199	ok	0.09	0.2	7.68e-06	10.1	10.1	10.1	10.1	0.4	3.78e-02	-0.2	2070.8	972.1	263.3
200	ok	0.09	0.2	1.47e-03	10.1	10.1	10.1	10.1	-0.2	-0.1	0.2	1993.8	1633.6	-266.3
201	ok	0.09	0.1	2.00e-04	10.1	10.1	10.1	10.1	-0.3	0.2	0.2	1317.4	890.0	263.9
202	ok	0.09	8.02e-02	1.34e-04	10.1	10.1	10.1	10.1	-0.3	9.10e-03	4.54e-02	1117.1	436.4	38.4
203	ok	0.09	0.1	3.80e-04	10.1	10.1	10.1	10.1	-0.9	-2.00e-02	-0.1	1618.3	837.2	-325.4
204	ok	0.09	0.1	1.81e-04	10.1	10.1	10.1	10.1	-0.5	3.40e-02	2.21e-02	-1888.8	-44.2	-164.0
205	ok	0.09	0.2	3.55e-04	10.1	10.1	10.1	10.1	-0.5	3.33e-03	5.89e-03	-2475.9	-225.7	-93.4
206	ok	0.09	0.2	7.99e-04	10.1	10.1	10.1	10.1	-0.6	-8.24e-03	2.17e-03	-2505.2	-99.6	-72.5
207	ok	0.09	0.2	1.06e-04	10.1	10.1	10.1	10.1	-0.4	6.32e-03	4.04e-03	-2390.4	-353.5	-99.2
208	ok	0.09	0.2	3.84e-04	10.1	10.1	10.1	10.1	-0.5	-5.15e-03	-6.13e-03	-2474.8	-220.1	32.1
209	ok	0.09	0.2	3.88e-04	10.1	10.1	10.1	10.1	-0.5	3.45e-03	-6.13e-03	-2475.9	-225.8	93.8
210	ok	0.09	0.2	8.44e-04	10.1	10.1	10.1	10.1	-0.6	-8.00e-03	-2.28e-03	-2505.2	-99.7	72.8
211	ok	0.09	0.2	1.20e-04	10.1	10.1	10.1	10.1	-0.4	6.41e-03	-4.42e-03	-2390.4	-353.7	99.5
212	ok	0.09	0.1	2.45e-04	10.1	10.1	10.1	10.1	-0.5	3.38e-02	-2.21e-02	-1888.8	-44.6	164.5
213	ok	0.09	0.1	2.69e-04	10.1	10.1	10.1	10.1	-0.3	0.2	-0.2	1317.1	889.2	-262.7
214	ok	0.09	8.01e-02	2.36e-04	10.1	10.1	10.1	10.1	-0.3	8.89e-03	-4.50e-02	1116.8	436.1	-37.6
215	ok	0.09	0.1	4.17e-04	10.1	10.1	10.1	10.1	-0.9	-2.00e-02	0.1	1617.3	836.3	326.0
216	ok	0.09	0.2	1.44e-03	10.1	10.1	10.1	10.1	-0.2	-0.1	-0.1	1994.5	1632.4	267.0
217	ok	0.09	0.1	4.94e-05	10.1	10.1	10.1	10.1	-0.2	-8.69e-02	-0.1	1834.2	830.5	383.4
218	ok	0.09	0.1	3.46e-05	10.1	10.1	10.1	10.1	-0.2	6.17e-03	-7.96e-03	1599.9	338.4	205.8
219	ok	0.09	0.2	8.05e-06	10.1	10.1	10.1	10.1	0.4	3.79e-02	0.2	2072.0	971.5	-262.2
220	ok	0.09	6.77e-02	1.23e-05	10.1	10.1	10.1	10.1	-5.42e-02	-2.27e-02	-3.00e-02	940.3	354.9	51.3
221	ok	0.09	5.99e-02	1.10e-05	10.1	10.1	10.1	10.1	-1.93e-02	4.61e-02	-6.68e-02	741.3	404.8	-203.3
222	ok	0.09	4.70e-02	1.66e-05	10.1	10.1	10.1	10.1	-0.1	-5.29e-03	-2.56e-02	631.8	152.9	-109.6
223	ok	0.09	6.95e-02	1.26e-05	10.1	10.1	10.1	10.1	-3.99e-02	2.44e-02	-6.56e-02	918.6	621.5	134.5
224	ok	0.09	8.08e-02	9.88e-04	10.1	10.1	10.1	10.1	11.1	-4.8	-5.2	683.4	1120.4	-71.3
225	ok	0.09	4.33e-02	4.89e-06	10.1	10.1	10.1	10.1	-1.54e-02	7.64e-03	1.55e-02	474.4	198.9	99.5
226	ok	0.09	2.92e-02	9.23e-06	10.1	10.1	10.1	10.1	-1.40e-02	7.92e-03	1.55e-02	402.2	184.5	34.1
227	ok	0.09	5.89e-02	3.77e-06	10.1	10.1	10.1	10.1	-1.21e-04	1.68e-02	3.15e-02	683.6	592.4	-179.0
228	ok	0.09	1.61e-02	4.88e-06	10.1	10.1	10.1	10.1	-2.45e-02	5.25e-03	-1.58e-02	-185.5	183.8	-70.2
229	ok	0.09	4.12e-02	4.97e-06	10.1	10.1	10.1	10.1	8.06e-03	4.77e-02	-5.25e-02	279.0	419.7	-214.5
230	ok	0.09	1.93e-02	8.35e-06	10.1	10.1	10.1	10.1	1.56e-02	1.19e-02	-2.34e-02	149.6	173.1	-108.2
231	ok	0.09	4.80e-02	6.94e-06	10.1	10.1	10.1	10.1	1.75e-02	2.17e-02	-6.42e-02	463.6	579.4	137.5
232	ok	0.09	8.09e-02	8.61e-04	10.1	10.1	10.1	10.1	13.7	-4.6	-3.7	343.9	1127.9	-75.8
233	ok	0.09	3.74e-02	7.61e-06	10.1	10.1	10.1	10.1	-3.26e-02	5.43e-02	1.03e-02	-239.4	321.9	105.1
234	ok	0.09	1.63e-02	8.80e-06	10.1	10.1	10.1	10.1	-5.17e-02	-1.27e-03	1.66e-02	-209.7	110.8	79.1
235	ok	0.09	5.13e-02	1.18e-05	10.1	10.1	10.1	10.1	-4.91e-02	2.42e-02	3.83e-02	452.1	591.3	-181.2
236	ok	0.09	2.10e-02	6.99e-06	10.1	10.1	10.1	10.1	-4.10e-02	1.25e-02	1.03e-02	-265.2	192.9	29.6
237	ok	0.09	3.87e-02	7.38e-06	10.1	10.1	10.1	10.1	-2.87e-03	5.70e-02	-5.83e-02	267.0	432.6	-171.9
238	ok	0.09	1.67e-02	9.34e-06	10.1	10.1	10.1	10.1	-5.63e-02	-3.32e-04	-1.49e-02	-203.1	114.6	-83.5
239	ok	0.09	5.25e-02	9.20e-06	10.1	10.1	10.1	10.1	-3.20e-02	2.56e-02	-4.80e-02	467.9	603.1	185.8
240	ok	0.09	8.18e-02	1.21e-03	10.1	10.1	10.1	10.1	8.7	-5.3	6.4	338.1	1139.9	77.0
241	ok	0.09	4.17e-02	7.96e-06	10.1	10.1	10.1	10.1	-3.80e-02	4.97e-02	1.07e-02	-257.6	318.2	171.9
242	ok	0.09	1.99e-02	9.47e-06	10.1	10.1	10.1	10.1	-5.77e-02	2.47e-04	1.41e-02	-234.0	107.4	129.5
243	ok	0.09	4.81e-02	9.34e-06	10.1	10.1	10.1	10.1	-2.83e-02	2.65e-02	5.24e-02	458.6	581.9	-138.5
244	ok	0.09	2.44e-02	7.72e-06	10.1	10.1	10.1	10.1	-4.55e-02	1.24e-02	1.07e-02	-288.3	164.8	98.5
245	ok	0.09	2.78e-02	8.26e-06	10.1	10.1	10.1	10.1	-4.59e-03	5.02e-02	-6.06e-02	177.1	373.5	-56.7
246	ok	0.09	1.90e-02	9.70e-06	10.1	10.1	10.1	10.1	-5.90e-02	-2.52e-03	-1.43e-02	-265.1	93.2	-15.8
247	ok	0.09	5.05e-02	1.60e-05	10.1	10.1	10.1	10.1	-8.01e-02	1.91e-02	-1.86e-02	350.4	497.8	270.7
248	ok	0.09	7.73e-02	7.99e-04	10.1	10.1	10.1	10.1	0.7	-3.1	3.4	306.9	1058.0	138.0
249	ok	0.09	5.68e-02	0.0	10.1	10.1	10.1	10.1	1.59e-03	9.22e-03	5.27e-03	211.6	275.4	171.3
250	ok	0.09	6.16e-02	0.0	10.1	10.1	10.1	10.1	3.6	19.1	-0.6	308.8	569.0	-384.5
251	ok	0.09	5.66e-02	0.0	10.1	10.1	10.1	10.1	2.5	19.8	-2.3	276.7	520.0	360.5
252	ok	0.09	5.65e-02	0.0	10.1	10.1	10.1	10.1	2.4	20.1	3.6	323.8	521.0	-343.0
253	ok	0.09	5.36e-02	1.76e-03	10.1	10.1	10.1	10.1	-10.9	29.1	-2.9	359.7	600.5	223.6
255	ok	0.09	4.78e-02	1.04e-03	10.1	10.1	10.1	10.1	-1.4	19.3	1.6	327.9	521.8	-212.5
256	ok	0.09	7.28e-02	1.39e-03	10.1	10.1	10.1	10.1	-6.9	29.9	-2.9	542.5	637.1	410.6
257	ok	0.09	8.54e-02	0.0	10.1	10.1	10.1	10.1	0.2	6.41e-02	-5.53e-02	1153.6	636.0	135.8
258	ok	0.09	5.07e-02	1.74e-03	10.1	10.1	10.1	10.1	-10.0	29.0	6.8	433.8	534.1	-211.6
260	ok	0.09	6.63e-02	8.65e-04	10.1	10.1	10.1	10.1	6.08e-03	1.90e-02	-5.53e-02	775.7	560.4	233.6
261	ok	0.09	7.13e-02	1.17e-03	10.1	10.1	10.1	10.1	-6.3	29.8	6.8	640.7	575.5	-381.7
262	ok	0.09	0.1	2.73e-04	10.1	10.1	10.1	10.1	-0.3	7.85e-02	-2.74e-02	1474.8	470.6	-239.9
263	ok	0.09	6.18e-02	1.19e-03	10.1	10.1	10.1	10.1	-2.88e-02	-6.87e-02	-0.2	809.8	526.5	113.9
265	ok	0.09	0.1	1.11e-03	10.1	10.1	10.1	10.1	-0.2	-7.57e-02	0.1	1143.4	590.8	-602.9
266	ok	0.09	0.1	1.02e-03	10.1	10.1	10.1	10.1	-3.0	30.1	3.50e-02	1093.6	802.2	282.4
267	ok	0.09	5.80e-02	3.42e-04	10.1	10.1	10.1	10.1	-0.3	4.55e-04	-1.59e-02	-575.0	-263.4	-358.3
268	ok	0.09	0.1	1.01e-03	10.1	10.1	10.1	10.1	-0.2	0.1	-0.2	522.4	756.7	-943.3

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
270	ok	0.09	5.18e-02	5.72e-04	10.1	10.1	10.1	10.1	-0.3	-1.40e-02	4.59e-02	-637.4	-305.2	-189.4
271	ok	0.09	0.1	7.95e-04	10.1	10.1	10.1	10.1	-0.6	2.41e-02	-0.2	1040.2	860.2	-873.8
272	ok	0.09	0.1	1.82e-04	10.1	10.1	10.1	10.1	-0.3	7.72e-03	3.54e-03	-2052.7	-414.6	-131.9
273	ok	0.09	9.56e-02	9.57e-05	10.1	10.1	10.1	10.1	-0.2	2.06e-02	-3.65e-04	-1299.5	131.4	-225.6
275	ok	0.09	0.1	2.65e-04	10.1	10.1	10.1	10.1	-0.3	1.80e-02	3.54e-03	-1829.3	-369.9	-133.2
276	ok	0.09	0.1	2.30e-04	10.1	10.1	10.1	10.1	-0.2	2.27e-02	2.25e-03	-1576.1	-140.7	-128.3
277	ok	0.09	0.1	1.19e-04	10.1	10.1	10.1	10.1	-0.3	7.76e-03	-4.05e-03	-2052.5	-414.5	132.0
278	ok	0.09	9.55e-02	3.36e-05	10.1	10.1	10.1	10.1	-0.2	2.06e-02	8.81e-05	-1299.3	131.5	225.9
280	ok	0.09	0.1	1.83e-04	10.1	10.1	10.1	10.1	-0.3	1.80e-02	-4.05e-03	-1829.1	-369.9	133.3
281	ok	0.09	0.1	1.29e-04	10.1	10.1	10.1	10.1	-0.2	2.27e-02	-2.69e-03	-1575.9	-140.7	128.4
282	ok	0.09	5.80e-02	2.74e-04	10.1	10.1	10.1	10.1	-0.3	9.83e-04	1.52e-02	-574.6	-263.4	358.6
283	ok	0.09	0.1	7.75e-04	10.1	10.1	10.1	10.1	-0.2	0.1	0.2	524.4	757.1	943.9
285	ok	0.09	5.18e-02	4.52e-04	10.1	10.1	10.1	10.1	-0.2	9.43e-02	-0.1	596.3	523.9	62.1
286	ok	0.09	0.1	6.04e-04	10.1	10.1	10.1	10.1	-0.6	2.32e-02	0.2	1041.2	860.5	874.5
287	ok	0.09	0.1	2.34e-04	10.1	10.1	10.1	10.1	-0.3	7.72e-02	2.63e-02	1477.9	471.3	241.0
288	ok	0.09	6.16e-02	8.98e-04	10.1	10.1	10.1	10.1	-4.74e-02	-6.70e-02	0.2	813.0	527.1	-112.4
290	ok	0.09	0.1	9.67e-04	10.1	10.1	10.1	10.1	-1.59e-02	-3.18e-02	-2.82e-02	1013.1	564.8	487.2
291	ok	0.09	0.1	7.84e-04	10.1	10.1	10.1	10.1	0.4	1.85e-02	0.2	1319.8	628.5	17.0
292	ok	0.09	8.59e-02	0.0	10.1	10.1	10.1	10.1	0.2	6.45e-02	5.50e-02	1160.2	637.2	-134.7
293	ok	0.09	5.03e-02	1.41e-03	10.1	10.1	10.1	10.1	-7.9	29.3	-6.5	436.3	526.3	209.0
295	ok	0.09	6.65e-02	7.53e-04	10.1	10.1	10.1	10.1	-1.76e-02	2.19e-02	5.50e-02	781.6	561.5	-232.5
296	ok	0.09	7.08e-02	9.27e-04	10.1	10.1	10.1	10.1	-4.8	30.0	-6.5	648.2	568.6	372.9
297	ok	0.09	5.59e-02	0.0	10.1	10.1	10.1	10.1	2.1	20.2	-3.9	333.8	518.1	333.1
298	ok	0.09	5.31e-02	1.43e-03	10.1	10.1	10.1	10.1	-8.7	29.4	2.7	357.8	584.5	-229.0
300	ok	0.09	4.76e-02	9.50e-04	10.1	10.1	10.1	10.1	-0.8	19.6	-1.7	332.5	517.9	211.1
301	ok	0.09	7.19e-02	1.14e-03	10.1	10.1	10.1	10.1	-5.3	30.1	2.7	539.1	620.7	-408.2
302	ok	0.09	5.58e-02	0.0	10.1	10.1	10.1	10.1	2.1	20.1	1.5	283.9	506.0	-355.7
303	ok	0.09	5.00e-02	1.62e-03	10.1	10.1	10.1	10.1	-9.9	29.4	-4.5	188.0	581.7	222.4
305	ok	0.09	4.41e-02	8.90e-04	10.1	10.1	10.1	10.1	-1.2	19.5	-0.7	155.6	480.3	-236.5
306	ok	0.09	6.60e-02	1.18e-03	10.1	10.1	10.1	10.1	-6.2	30.1	-4.5	374.0	618.9	392.5
307	ok	0.09	5.65e-02	0.0	10.1	10.1	10.1	10.1	2.4	19.9	-1.2	265.2	526.3	358.1
308	ok	0.09	4.81e-02	1.62e-03	10.1	10.1	10.1	10.1	-9.9	29.3	4.7	160.6	571.9	-203.9
310	ok	0.09	4.61e-02	8.51e-04	10.1	10.1	10.1	10.1	-1.2	19.2	1.1	146.5	502.6	250.8
311	ok	0.09	6.39e-02	1.16e-03	10.1	10.1	10.1	10.1	-6.2	30.0	4.7	356.0	611.0	-373.2
312	ok	0.09	5.62e-02	4.14e-06	10.1	10.1	10.1	10.1	2.5	19.3	4.1	269.7	527.7	-354.3
313	ok	0.09	4.89e-02	1.43e-03	10.1	10.1	10.1	10.1	-8.8	29.1	-3.3	140.4	573.9	219.8
315	ok	0.09	4.58e-02	9.04e-04	10.1	10.1	10.1	10.1	0.2	18.8	1.9	140.6	501.9	-249.6
316	ok	0.09	6.50e-02	1.13e-03	10.1	10.1	10.1	10.1	-4.9	29.9	-3.3	349.4	615.7	387.4
317	ok	0.09	5.54e-02	4.28e-06	10.1	10.1	10.1	10.1	4.3	18.6	2.0	267.7	512.9	348.1
318	ok	0.09	4.99e-02	1.41e-03	10.1	10.1	10.1	10.1	-8.3	28.1	5.2	135.3	571.8	-245.1
320	ok	0.09	4.44e-02	2.08e-04	10.1	10.1	10.1	10.1	1.3	18.0	3.7	135.3	486.4	239.2
321	ok	0.09	6.64e-02	8.00e-04	10.1	10.1	10.1	10.1	-4.0	28.9	5.2	346.0	613.9	-412.5
322	ok	0.09	5.53e-02	3.29e-05	10.1	10.1	10.1	10.1	4.7	22.4	8.8	274.1	474.3	-378.9
323	ok	0.09	4.78e-02	8.16e-04	10.1	10.1	10.1	10.1	4.5	26.5	0.5	134.9	589.7	172.3
325	ok	0.09	4.53e-02	2.22e-04	10.1	10.1	10.1	10.1	5.3	22.5	7.5	129.1	445.3	-297.8
326	ok	0.09	6.06e-02	8.52e-06	10.1	10.1	10.1	10.1	7.0	27.0	0.5	297.0	622.1	327.0
327	ok	0.09	4.98e-02	1.91e-03	10.1	10.1	10.1	10.1	-11.6	28.4	-5.3	224.4	627.4	150.1
329	ok	0.09	5.01e-02	7.16e-04	10.1	10.1	10.1	10.1	-0.9	18.2	-2.5	183.6	544.0	-266.8
330	ok	0.09	6.49e-02	1.26e-03	10.1	10.1	10.1	10.1	-7.2	29.3	-5.3	407.4	664.0	332.8
331	ok	0.09	5.35e-02	1.90e-03	10.1	10.1	10.1	10.1	-11.8	28.8	4.2	221.7	611.9	-247.2
333	ok	0.09	4.49e-02	1.00e-03	10.1	10.1	10.1	10.1	-1.4	19.0	-0.3	172.2	499.1	227.4
334	ok	0.09	7.01e-02	1.41e-03	10.1	10.1	10.1	10.1	-7.3	29.7	4.2	390.8	645.7	-426.8
335	ok	0.09	8.07e-02	0.0	10.1	10.1	10.1	10.1	7.6	4.7	3.4	313.2	1098.9	128.1
336	ok	0.09	4.48e-02	6.68e-06	10.1	10.1	10.1	10.1	3.08e-02	1.60e-02	6.59e-02	125.8	513.9	-235.8
337	ok	0.09	0.1	3.13e-04	10.1	10.1	10.1	10.1	5.5	4.8	7.1	1089.8	1286.7	173.3
338	ok	0.09	6.99e-02	1.12e-04	10.1	10.1	10.1	10.1	3.55e-03	2.10e-02	7.15e-02	833.0	634.3	-221.5
339	ok	0.09	0.1	1.41e-04	10.1	10.1	10.1	10.1	-0.4	2.25e-03	3.02e-03	-1770.1	-352.4	-287.1
340	ok	0.09	9.52e-02	7.50e-04	10.1	10.1	10.1	10.1	-0.2	0.1	-0.1	883.7	690.2	-533.9
341	ok	0.09	0.1	1.09e-04	10.1	10.1	10.1	10.1	-0.4	2.40e-03	-3.49e-03	-1769.9	-352.6	287.3
342	ok	0.09	0.2	6.44e-05	10.1	10.1	10.1	10.1	-0.4	5.65e-03	-3.12e-03	-2242.2	-442.3	113.3
343	ok	0.09	1.00e-01	2.78e-04	10.1	10.1	10.1	10.1	4.5	4.9	-6.5	1088.9	1274.8	-173.2
344	ok	0.09	0.1	8.56e-05	10.1	10.1	10.1	10.1	-0.3	-0.1	0.2	1518.7	860.8	-452.0
345	ok	0.09	7.96e-02	0.0	10.1	10.1	10.1	10.1	6.5	5.2	-3.8	316.8	1082.5	-128.0
346	ok	0.09	5.21e-02	3.85e-06	10.1	10.1	10.1	10.1	-8.42e-04	1.67e-02	3.15e-02	351.0	525.8	-275.0
347	ok	0.09	8.14e-02	0.0	10.1	10.1	10.1	10.1	6.6	4.7	4.4	237.2	1110.7	127.0
348	ok	0.09	4.79e-02	7.38e-06	10.1	10.1	10.1	10.1	-2.81e-02	2.84e-02	3.83e-02	110.1	522.9	-285.0
349	ok	0.09	7.86e-02	6.03e-04	10.1	10.1	10.1	10.1	4.5	4.8	8.5	246.2	1067.5	132.8
350	ok	0.09	4.55e-02	3.37e-04	10.1	10.1	10.1	10.1	-5.04e-02	2.21e-02	5.24e-02	110.4	512.3	-254.4
351	ok	0.09	5.93e-02	0.0	10.1	10.1	10.1	10.1	7.52e-02	0.2	-3.79e-02	191.9	790.3	153.8
352	ok	0.09	5.05e-02	1.66e-05	10.1	10.1	10.1	10.1	3.70e-02	2.61e-02	-3.79e-02	144.6	553.6	291.7
353	ok	0.09	6.16e-02	0.0	10.1	10.1	10.1	10.1	7.01e-02	0.2	6.52e-02	631.7	812.1	-104.8
354	ok	0.09	5.17e-02	1.49e-06	10.1	10.1	10.1	10.1	3.42e-02	1.26e-02	-3.11e-02	340.3	524.8	274.9
355	ok	0.09	0.1	8.04e-05	10.1	10.1	10.1	10.1	-0.2	0.2	-0.2	1612.4	1336.2	231.9
356	ok	0.09	0.1	6.53e-05	10.1	10.1	10.1	10.1	-0.3	-0.1	-0.2	1517.4	861.4	453.2

Nodo	Stato	x/d	V N/M	ver. rid	Af pr-	Af pr+	Af sec-	Af sec+	N x	N y	N xy	M x	M y	M xy
357	ok	0.09	0.2	6.05e-05	10.1	10.1	10.1	10.1	-0.4	2.83e-03	-3.12e-03	-2245.2	-457.2	36.6
358	ok	0.09	0.2	9.88e-05	10.1	10.1	10.1	10.1	-0.4	5.56e-03	2.63e-03	-2242.3	-442.2	-113.2
359	ok	0.09	0.1	8.97e-05	10.1	10.1	10.1	10.1	-0.2	0.2	0.2	1613.6	1335.3	-230.6
360	ok	0.09	9.52e-02	7.26e-04	10.1	10.1	10.1	10.1	-0.2	0.1	0.1	884.0	689.6	534.2
361	ok	0.09	6.19e-02	0.0	10.1	10.1	10.1	10.1	3.70e-02	0.2	-6.56e-02	640.1	813.9	105.8
362	ok	0.09	7.03e-02	2.02e-04	10.1	10.1	10.1	10.1	-1.91e-02	2.85e-02	-1.52e-02	832.8	604.4	226.6
363	ok	0.09	5.84e-02	2.51e-06	10.1	10.1	10.1	10.1	8.80e-03	0.2	3.83e-02	162.0	782.4	-148.2
364	ok	0.09	4.52e-02	1.21e-05	10.1	10.1	10.1	10.1	-3.18e-02	1.18e-02	-6.42e-02	122.3	511.1	247.2
365	ok	0.09	6.00e-02	5.36e-06	10.1	10.1	10.1	10.1	-9.69e-03	0.2	-4.80e-02	169.3	802.2	152.6
366	ok	0.09	4.90e-02	1.13e-05	10.1	10.1	10.1	10.1	-4.82e-02	2.23e-02	-4.80e-02	115.4	532.6	293.6
367	ok	0.09	5.73e-02	1.23e-04	10.1	10.1	10.1	10.1	-2.39e-03	0.1	-1.86e-02	172.9	681.5	272.8
368	ok	0.09	4.92e-02	2.39e-04	10.1	10.1	10.1	10.1	-2.62e-02	2.99e-02	-1.86e-02	127.2	453.1	362.0
369	ok	0.09	3.88e-02	6.10e-04	10.1	10.1	10.1	10.1	-4.41e-02	-1.31e-02	3.77e-02	137.0	514.2	-106.3
Nodo		**x/d**	**V N/M**	**ver. rid**	**Af pr-**	**Af pr+**	**Af sec-**	**Af sec+**	**N x**	**N y**	**N xy**	**M x**	**M y**	**M xy**
									-11.77	-6.52	-9.75	-2505.24	-457.25	-943.31
		0.09	0.18	1.91e-03	10.05	10.05	10.05	10.05	23.90	93.02	18.80	2212.90	1680.53	943.93

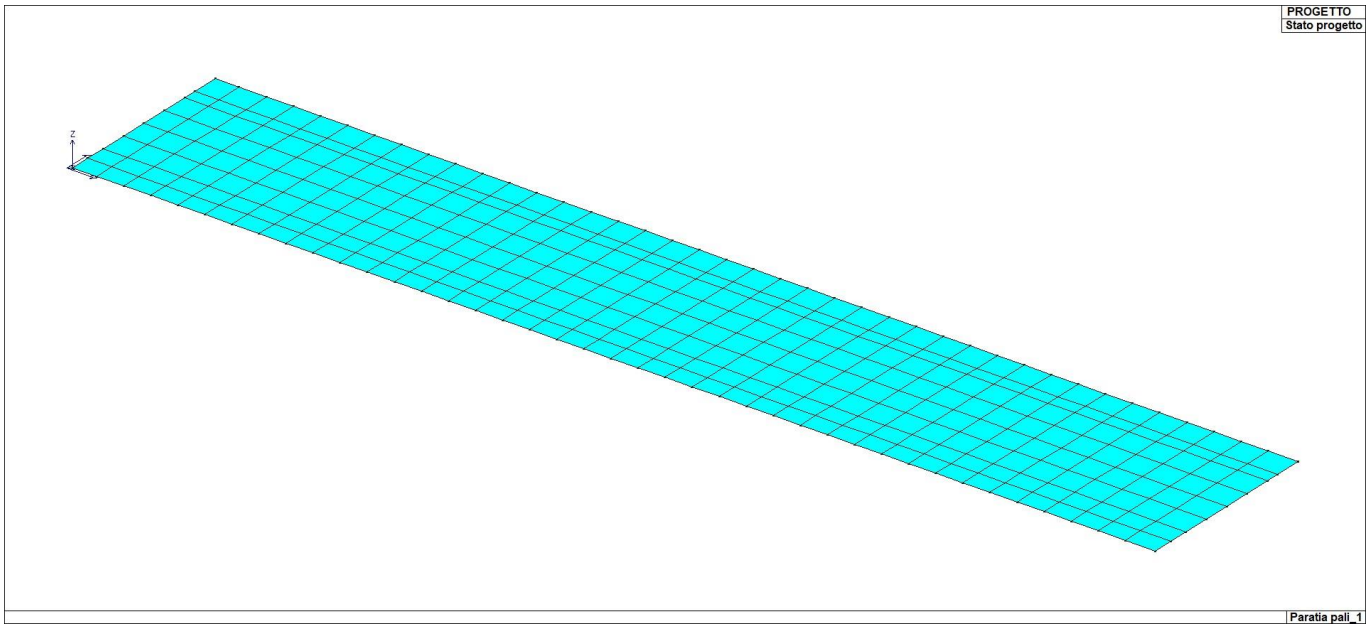
Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
		daN/cm2					daN/cm	daN/cm
2	ok	0.08						
3	ok	0.19						
5	ok	1.00						
7	ok	0.33						
9	ok	0.33						
10	ok	1.35						
11	ok	1.32						
12	ok	2.84						
13	ok	2.46						
14	ok	1.07						
15	ok	1.12						
16	ok	1.19						
17	ok	1.19						
18	ok	1.14						
19	ok	1.12						
20	ok	1.12						
21	ok	1.16						
22	ok	2.84						
23	ok	2.46						
24	ok	1.09						
25	ok	1.09						
26	ok	0.42						
27	ok	0.16						
28	ok	1.15						
29	ok	1.12						
30	ok	0.77						
31	ok	0.72						
32	ok	0.96						
33	ok	0.74						
34	ok	0.74						
35	ok	0.96						
36	ok	0.72						
37	ok	0.76						
38	ok	0.76						
39	ok	0.31						
41	ok	0.23						
43	ok	0.30						
45	ok	0.76						
47	ok	0.22						
49	ok	0.76						
51	ok	0.30						
53	ok	0.24						
55	ok	0.24						
57	ok	0.29						
59	ok	0.23						
60	ok	0.19						
62	ok	0.20						
63	ok	0.25						
65	ok	0.29						
66	ok	0.40						

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
68	ok	0.56						
69	ok	1.03						
71	ok	0.20						
72	ok	1.03						
74	ok	0.56						
75	ok	0.40						
77	ok	0.29						
78	ok	0.25						
80	ok	0.18						
81	ok	0.18						
83	ok	0.19						
84	ok	0.22						
85	ok	0.33						
86	ok	1.00						
87	ok	0.73						
88	ok	0.40						
89	ok	0.40						
90	ok	0.28						
91	ok	0.24						
92	ok	0.25						
93	ok	1.11						
94	ok	1.11						
95	ok	0.25						
96	ok	0.25						
97	ok	0.19						
98	ok	0.21						
99	ok	0.28						
100	ok	0.24						
101	ok	0.70						
102	ok	1.09						
103	ok	0.16						
104	ok	0.15						
105	ok	1.35						
106	ok	1.07						
107	ok	1.14						
108	ok	0.19						
109	ok	2.84						
110	ok	1.11						
111	ok	0.42						
112	ok	1.11						
113	ok	2.84						
114	ok	0.18						
115	ok	1.15						
116	ok	0.25						
117	ok	1.12						
118	ok	0.19						
119	ok	1.19						
120	ok	0.21						
121	ok	0.26						
122	ok	0.22						
123	ok	0.42						
124	ok	0.91						
125	ok	0.91						
126	ok	0.41						
127	ok	0.22						
128	ok	0.19						
129	ok	0.21						
130	ok	0.77						
131	ok	0.52						
132	ok	0.52						
133	ok	0.92						
134	ok	0.94						
135	ok	0.92						
136	ok	1.26						
137	ok	0.99						
138	ok	0.73						
139	ok	0.88						
140	ok	0.92						
141	ok	0.69						
142	ok	0.89						
143	ok	0.62						
144	ok	0.90						
145	ok	0.96						
146	ok	1.90						

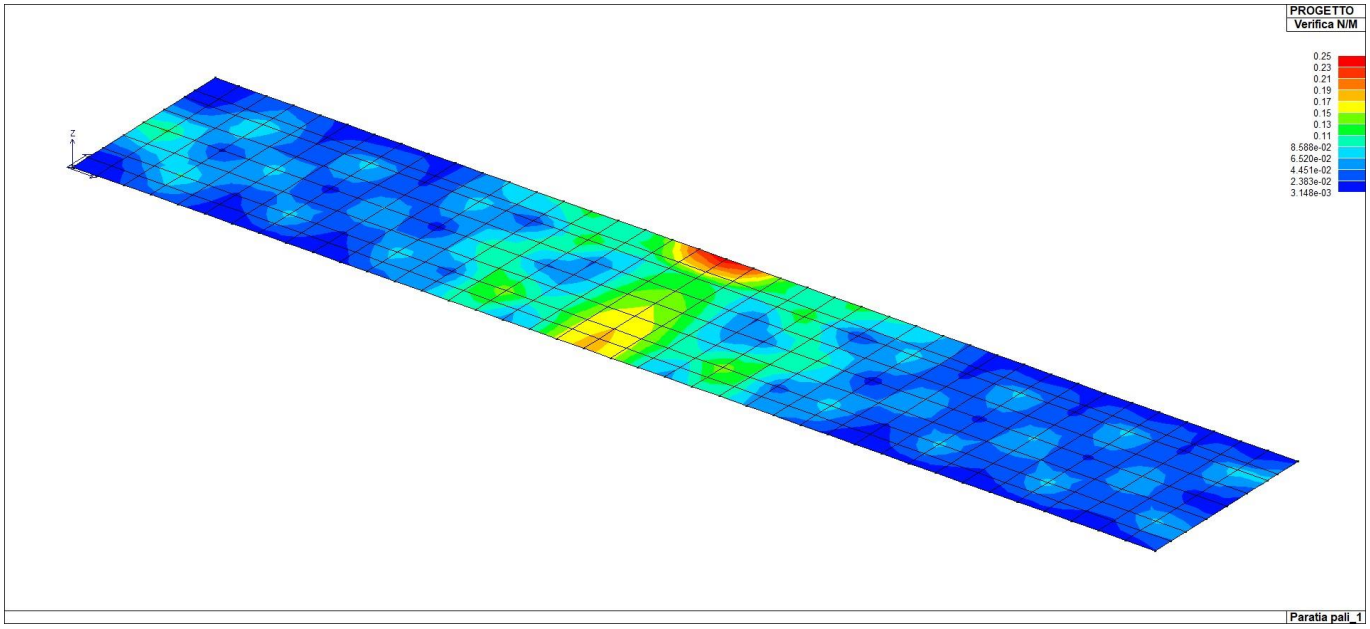
Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
147	ok	0.63						
148	ok	0.32						
149	ok	0.63						
150	ok	1.90						
151	ok	0.96						
152	ok	0.89						
153	ok	0.65						
154	ok	0.88						
155	ok	0.70						
156	ok	0.90						
157	ok	0.69						
158	ok	1.02						
159	ok	1.02						
160	ok	1.32						
161	ok	0.72						
162	ok	0.77						
163	ok	1.35						
165	ok	0.99						
166	ok	1.35						
167	ok	1.26						
169	ok	1.28						
170	ok	0.33						
171	ok	1.28						
172	ok	0.33						
173	ok	1.32						
174	ok	1.00						
175	ok	1.00						
176	ok	0.92						
177	ok	0.25						
178	ok	1.32						
179	ok	0.24						
180	ok	0.26						
181	ok	1.11						
182	ok	0.23						
183	ok	1.11						
184	ok	1.12						
185	ok	1.12						
186	ok	0.21						
187	ok	1.12						
188	ok	0.25						
189	ok	1.12						
190	ok	0.30						
191	ok	1.12						
192	ok	1.12						
193	ok	0.97						
194	ok	0.19						
195	ok	0.97						
196	ok	0.42						
197	ok	2.03						
198	ok	0.40						
199	ok	2.03						
200	ok	2.46						
201	ok	2.46						
202	ok	1.03						
203	ok	2.46						
204	ok	1.03						
205	ok	0.64						
206	ok	0.64						
207	ok	0.48						
208	ok	0.22						
209	ok	0.64						
210	ok	0.64						
211	ok	0.48						
212	ok	1.03						
213	ok	2.46						
214	ok	1.03						
215	ok	2.46						
216	ok	2.46						
217	ok	2.03						
218	ok	0.40						
219	ok	2.03						
220	ok	0.41						
221	ok	0.98						
222	ok	0.19						

Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
223	ok	0.98						
224	ok	1.12						
225	ok	1.12						
226	ok	0.30						
227	ok	1.12						
228	ok	0.25						
229	ok	1.14						
230	ok	0.21						
231	ok	1.14						
232	ok	1.16						
233	ok	1.16						
234	ok	0.24						
235	ok	1.16						
236	ok	0.19						
237	ok	1.19						
238	ok	0.24						
239	ok	1.19						
240	ok	1.19						
241	ok	1.19						
242	ok	0.22						
243	ok	1.19						
244	ok	0.22						
245	ok	1.09						
246	ok	0.29						
247	ok	1.09						
248	ok	1.09						
249	ok	0.73						
250	ok	0.77						
251	ok	0.72						
252	ok	0.69						
253	ok	1.14						
255	ok	0.90						
256	ok	1.14						
257	ok	0.96						
258	ok	1.04						
260	ok	0.96						
261	ok	1.04						
262	ok	0.77						
263	ok	2.18						
265	ok	1.33						
266	ok	2.18						
267	ok	0.74						
268	ok	2.84						
270	ok	1.90						
271	ok	2.84						
272	ok	0.43						
273	ok	0.75						
275	ok	0.42						
276	ok	0.75						
277	ok	0.43						
278	ok	0.75						
280	ok	0.42						
281	ok	0.75						
282	ok	0.74						
283	ok	2.84						
285	ok	1.90						
286	ok	2.84						
287	ok	0.77						
288	ok	2.18						
290	ok	1.32						
291	ok	2.18						
292	ok	0.96						
293	ok	1.05						
295	ok	0.96						
296	ok	1.05						
297	ok	0.69						
298	ok	1.15						
300	ok	0.89						
301	ok	1.15						
302	ok	0.72						
303	ok	1.08						
305	ok	0.87						
306	ok	1.08						
307	ok	0.76						

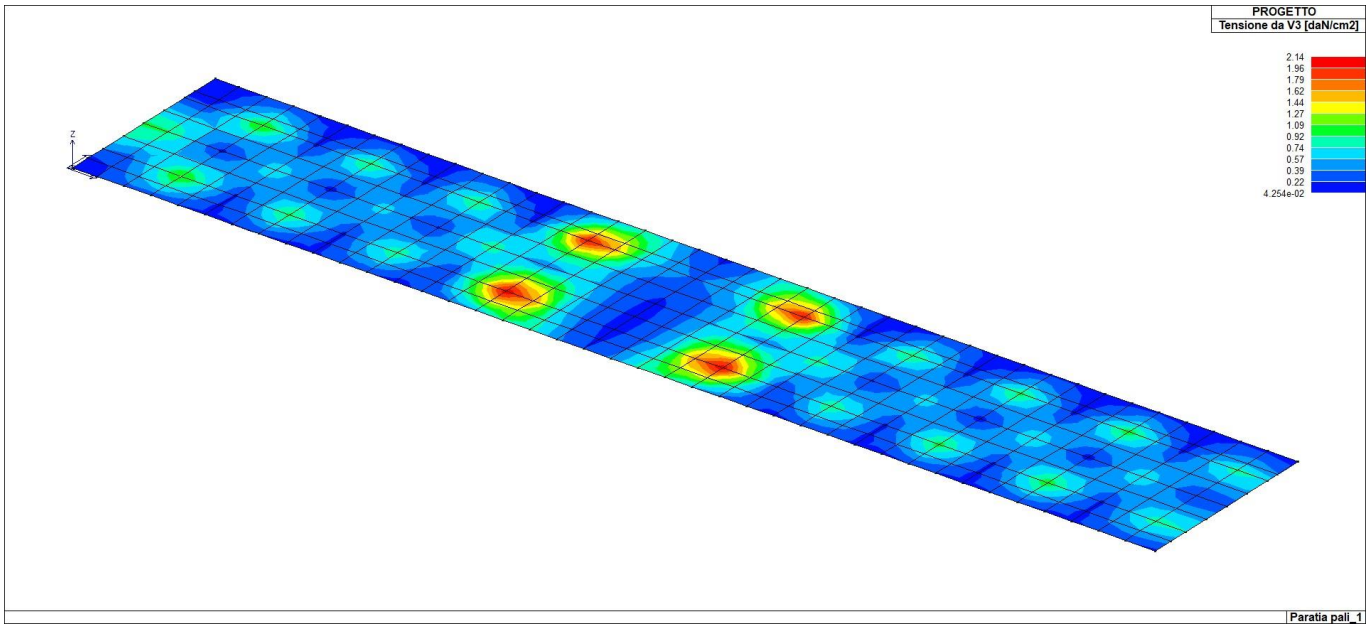
Nodo	Stato	Max tau	Ver V pr	Ver V sec	Af V pr	Af V sec	V pr	V sec
308	ok	1.12						
310	ok	0.88						
311	ok	1.12						
312	ok	0.76						
313	ok	1.17						
315	ok	0.89						
316	ok	1.17						
317	ok	0.75						
318	ok	1.19						
320	ok	0.90						
321	ok	1.19						
322	ok	0.76						
323	ok	1.09						
325	ok	0.88						
326	ok	1.09						
327	ok	1.03						
329	ok	0.87						
330	ok	1.03						
331	ok	1.07						
333	ok	0.89						
334	ok	1.07						
335	ok	0.72						
336	ok	0.86						
337	ok	0.92						
338	ok	0.92						
339	ok	0.83						
340	ok	2.36						
341	ok	0.83						
342	ok	0.47						
343	ok	0.92						
344	ok	1.71						
345	ok	0.72						
346	ok	0.86						
347	ok	0.76						
348	ok	0.87						
349	ok	0.76						
350	ok	0.91						
351	ok	0.86						
352	ok	0.83						
353	ok	0.86						
354	ok	0.86						
355	ok	2.36						
356	ok	1.71						
357	ok	0.15						
358	ok	0.47						
359	ok	2.35						
360	ok	2.35						
361	ok	0.86						
362	ok	0.92						
363	ok	0.87						
364	ok	0.87						
365	ok	0.91						
366	ok	0.90						
367	ok	0.82						
368	ok	0.82						
369	ok	0.77						
Nodo		**Max tau**	**Ver V pr**	**Ver V sec**	**Af V pr**	**Af V sec**	**V pr**	**V sec**
		2.84						



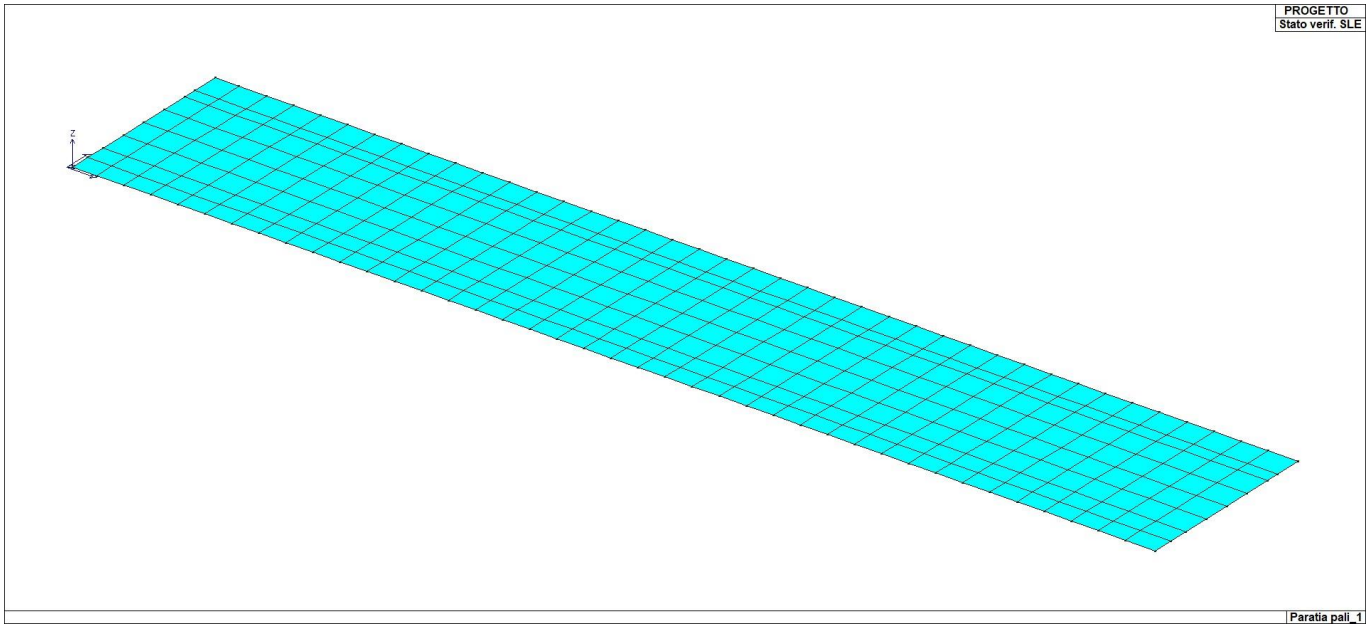
72_CA_D3_01_Stato progetto



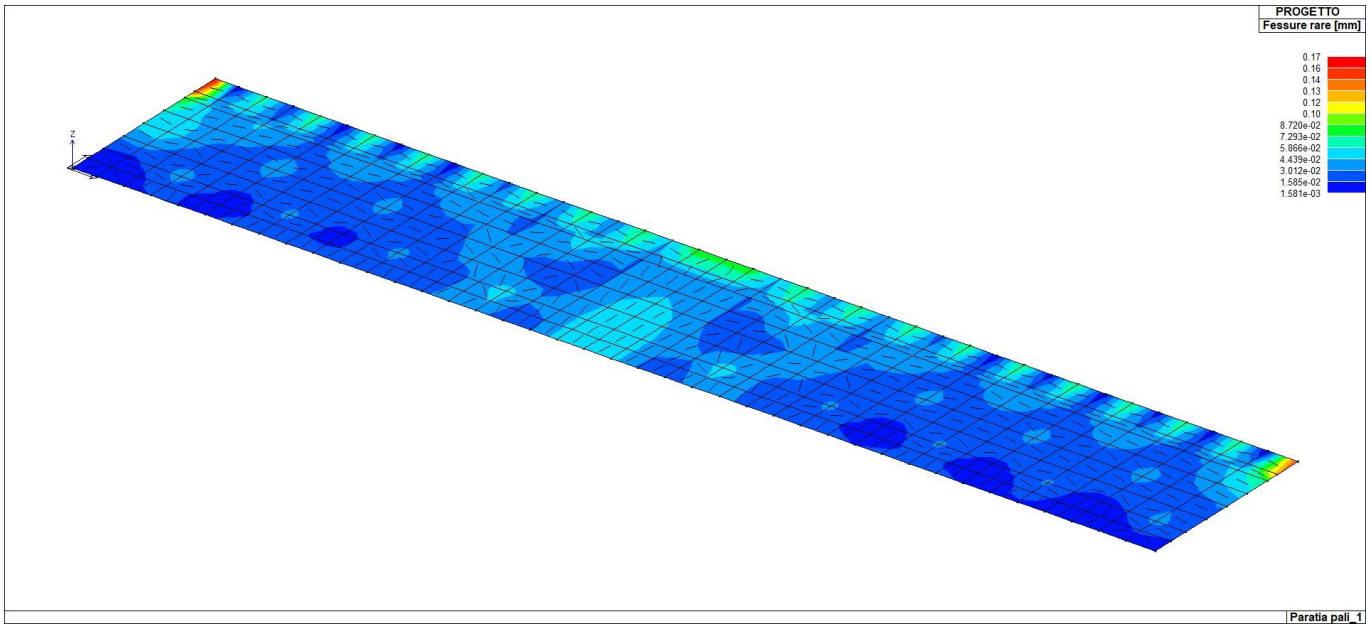
72_CA_D3_02_Verifica NM



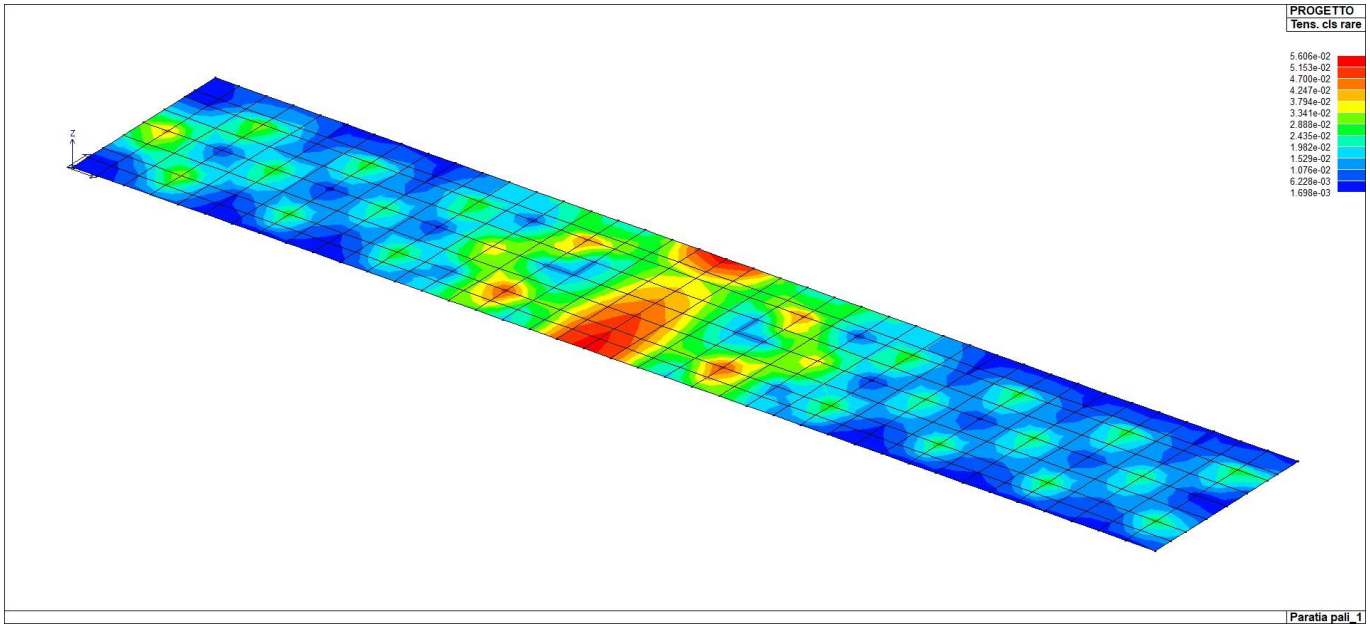
72_CA_D3_05_Tensione da V3



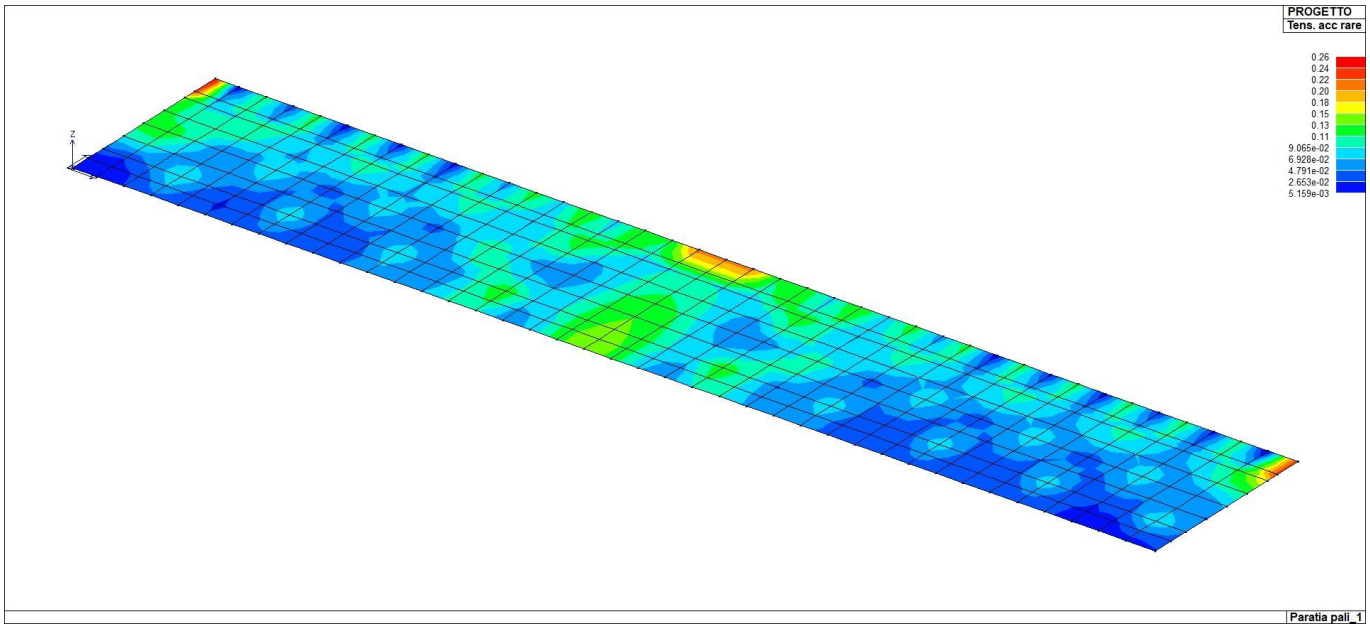
72_CA_D3_17_Stato verif SLE



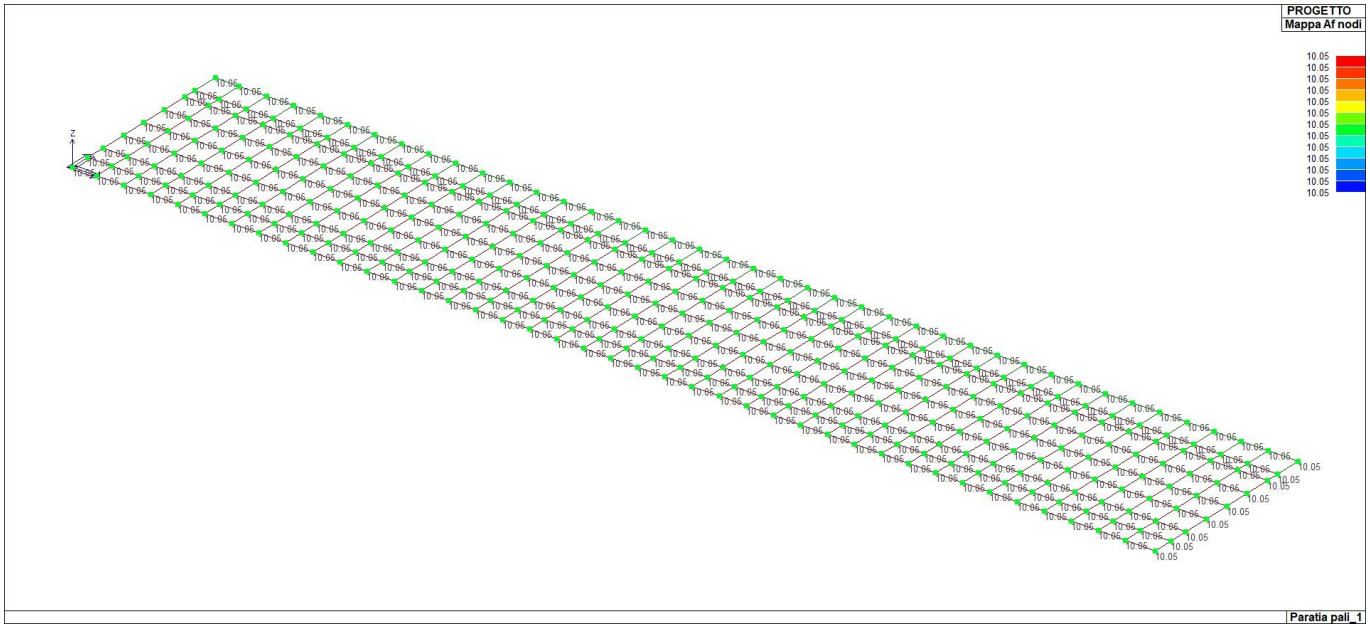
72_CA_D3_18_Fessure rare



72_CA_D3_21_Tens cls rare



72_CA_D3_22_Tens acc rare



72_CA_D3_25_Mappa Af nodi

STATI LIMITE D' ESERCIZIO

LEGENDA TABELLA STATI LIMITE D' ESERCIZIO

In tabella vengono riportati i valori di interesse per il controllo degli stati limite d'esercizio.

In particolare vengono riportati, in relazione al tipo di elemento strutturale, i risultati relativi alle tre categorie di combinazione considerate:

- Combinazioni rare
- Combinazioni frequenti
- Combinazioni quasi permanenti.

I valori di interesse sono i seguenti:

rRfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni rare	[*normalizzato a 1*]
rRfyk	rapporto tra la massima tensione nell'acciaio e la tensione fyk in combinazioni rare	[*normalizzato a 1*]
rPfck	rapporto tra la massima compressione nel calcestruzzo e la tensione fck in combinazioni quasi permanenti	[*normalizzato a 1*]
wR	apertura caratteristica delle fessure in combinazioni rare	[*mm*]
wF	apertura caratteristica delle fessure in combinazioni frequenti	[*mm*]
wP	apertura caratteristica delle fessure in combinazioni quasi permanenti	[*mm*]
dR	massima deformazione in combinazioni rare	
dF	massima deformazione in combinazioni frequenti	
dP	massima deformazione in combinazioni quasi permanenti	

Per ognuno dei nove valori soprariportati viene indicata (Rif.cmb) la combinazione in cui si è verificato.

In relazione al tipo di elemento strutturale i valori sono selezionati nel modo seguente:

pilastri	**rRfck**	**rRfyk**	**rPfck**	per sezioni significative
travi	**rRfck**	**rRfyk**	**rPfck**	per sezioni significative
	wR	**wF**	**wP**	per sezioni significative
	dR	**dF**	**dP**	massimi in campata
setti e gusci	**rRfck**	**rRfyk**	**rPfck**	massimi nei nodi dell'elemento
	wR	**wF**	**wP**	massimi nei nodi dell'elemento

Si precisa che i valori di massima deformazione per travi sono riferiti al piano verticale (piano locale 1-2 con momenti flettenti 3-3).

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
					mm	mm	mm	
1	6.08e-03	0.26	0.0	5,6,0	0.16	0.0	0.0	6,0,0
2	6.58e-03	0.28	0.0	6,5,0	0.19	0.0	0.0	5,0,0
3	0.01	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
4	0.02	0.08	0.0	4,6,0	0.03	0.0	0.0	6,0,0
5	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
6	0.04	0.12	0.0	6,6,0	0.05	0.0	0.0	6,0,0
7	0.02	0.08	0.0	4,6,0	0.03	0.0	0.0	6,0,0
8	0.04	0.11	0.0	4,6,0	0.04	0.0	0.0	6,0,0
9	0.05	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
10	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
11	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
12	0.03	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
13	6.68e-03	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
14	0.01	0.04	0.0	4,5,0	0.02	0.0	0.0	5,0,0
15	8.47e-03	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
16	3.90e-03	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
17	0.01	0.04	0.0	4,4,0	0.02	0.0	0.0	6,0,0
18	0.02	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
19	0.02	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
20	0.03	0.09	0.0	4,4,0	0.04	0.0	0.0	4,0,0
21	0.03	0.14	0.0	6,6,0	0.08	0.0	0.0	6,0,0
22	0.02	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
23	0.05	0.14	0.0	4,6,0	0.05	0.0	0.0	6,0,0
24	0.06	0.23	0.0	6,6,0	0.09	0.0	0.0	6,0,0
25	0.04	0.19	0.0	4,6,0	0.08	0.0	0.0	6,0,0
26	0.02	0.06	0.0	4,4,0	0.02	0.0	0.0	4,0,0
27	0.03	0.14	0.0	6,6,0	0.08	0.0	0.0	5,0,0
28	0.02	0.14	0.0	6,6,0	0.08	0.0	0.0	6,0,0
29	0.02	0.05	0.0	4,4,0	0.02	0.0	0.0	4,0,0
30	0.02	0.13	0.0	6,5,0	0.08	0.0	0.0	5,0,0
31	4.72e-03	0.13	0.0	6,5,0	0.08	0.0	0.0	5,0,0
32	0.01	0.04	0.0	4,5,0	0.02	0.0	0.0	5,0,0
33	8.31e-03	0.12	0.0	6,5,0	0.08	0.0	0.0	5,0,0
34	6.09e-03	0.12	0.0	6,5,0	0.08	0.0	0.0	5,0,0
35	0.01	0.04	0.0	4,6,0	0.02	0.0	0.0	5,0,0
36	6.11e-03	0.12	0.0	6,5,0	0.08	0.0	0.0	5,0,0
37	8.02e-03	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
38	0.01	0.05	0.0	4,6,0	0.03	0.0	0.0	6,0,0
39	5.90e-03	0.14	0.0	5,6,0	0.09	0.0	0.0	6,0,0
40	2.98e-03	0.06	0.0	3,6,0	0.03	0.0	0.0	6,0,0
41	0.05	0.16	0.0	6,6,0	0.06	0.0	0.0	6,0,0
42	0.02	0.07	0.0	4,4,0	0.03	0.0	0.0	4,0,0
43	0.04	0.14	0.0	6,6,0	0.06	0.0	0.0	5,0,0
44	0.01	0.12	0.0	4,6,0	0.07	0.0	0.0	6,0,0
45	0.03	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
46	0.01	0.08	0.0	4,5,0	0.03	0.0	0.0	5,0,0
47	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
48	0.01	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
49	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
50	0.02	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
51	0.05	0.17	0.0	6,6,0	0.06	0.0	0.0	6,0,0
52	0.02	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
53	0.04	0.11	0.0	4,6,0	0.04	0.0	0.0	6,0,0
54	0.03	0.09	0.0	4,6,0	0.04	0.0	0.0	6,0,0
55	0.06	0.16	0.0	6,6,0	0.06	0.0	0.0	6,0,0
56	0.03	0.09	0.0	4,6,0	0.03	0.0	0.0	6,0,0
57	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
58	0.01	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
59	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
60	0.01	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
61	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
62	0.01	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
63	0.04	0.15	0.0	6,6,0	0.06	0.0	0.0	6,0,0
64	0.03	0.22	0.0	6,6,0	0.09	0.0	0.0	6,0,0
65	4.72e-03	0.17	0.0	3,5,0	0.11	0.0	0.0	6,0,0
66	0.03	0.10	0.0	6,6,0	0.04	0.0	0.0	5,0,0
67	0.02	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
68	0.03	0.10	0.0	6,6,0	0.04	0.0	0.0	5,0,0
69	0.02	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
70	0.03	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
71	0.02	0.09	0.0	6,5,0	0.03	0.0	0.0	5,0,0
72	0.04	0.12	0.0	4,6,0	0.05	0.0	0.0	6,0,0
73	0.03	0.12	0.0	6,6,0	0.05	0.0	0.0	6,0,0
74	0.03	0.10	0.0	4,6,0	0.04	0.0	0.0	6,0,0
75	0.03	0.09	0.0	6,6,0	0.03	0.0	0.0	6,0,0
76	0.05	0.16	0.0	6,6,0	0.06	0.0	0.0	6,0,0
77	0.02	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
78	0.03	0.10	0.0	6,5,0	0.04	0.0	0.0	5,0,0
79	0.01	0.09	0.0	6,5,0	0.03	0.0	0.0	5,0,0
80	0.03	0.10	0.0	6,6,0	0.04	0.0	0.0	5,0,0
81	0.01	0.09	0.0	5,5,0	0.03	0.0	0.0	5,0,0
82	0.03	0.10	0.0	6,6,0	0.04	0.0	0.0	5,0,0
83	0.01	0.09	0.0	6,5,0	0.03	0.0	0.0	5,0,0
84	0.02	0.10	0.0	6,5,0	0.04	0.0	0.0	5,0,0
85	0.01	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
86	8.27e-03	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
87	0.02	0.07	0.0	4,6,0	0.03	0.0	0.0	6,0,0
88	0.03	0.08	0.0	4,6,0	0.03	0.0	0.0	6,0,0
89	0.06	0.15	0.0	6,4,0	0.06	0.0	0.0	4,0,0
90	0.04	0.11	0.0	4,6,0	0.04	0.0	0.0	6,0,0
91	0.01	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
92	7.08e-03	0.04	0.0	4,6,0	0.02	0.0	0.0	6,0,0
93	8.13e-03	0.03	0.0	4,6,0	0.01	0.0	0.0	6,0,0
94	3.52e-03	0.03	0.0	4,6,0	0.02	0.0	0.0	6,0,0
95	3.05e-03	0.03	0.0	4,6,0	0.02	0.0	0.0	6,0,0
96	0.02	0.08	0.0	4,6,0	0.03	0.0	0.0	6,0,0
97	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
98	0.01	0.04	0.0	6,6,0	0.01	0.0	0.0	6,0,0
99	0.01	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
100	4.99e-03	0.03	0.0	4,6,0	0.02	0.0	0.0	6,0,0
101	6.27e-03	0.04	0.0	4,6,0	0.01	0.0	0.0	6,0,0
102	7.33e-03	0.02	0.0	4,6,0	8.57e-03	0.0	0.0	6,0,0
103	0.03	0.09	0.0	6,6,0	0.03	0.0	0.0	6,0,0
104	6.31e-03	0.02	0.0	6,6,0	9.17e-03	0.0	0.0	6,0,0
105	4.79e-03	0.01	0.0	6,6,0	4.98e-03	0.0	0.0	6,0,0
106	0.02	0.10	0.0	4,6,0	0.05	0.0	0.0	5,0,0
107	0.02	0.12	0.0	6,6,0	0.05	0.0	0.0	6,0,0
108	0.05	0.15	0.0	6,6,0	0.06	0.0	0.0	6,0,0
109	4.75e-03	0.09	0.0	3,5,0	0.04	0.0	0.0	5,0,0
110	0.03	0.15	0.0	6,6,0	0.06	0.0	0.0	6,0,0
111	0.03	0.08	0.0	6,6,0	0.03	0.0	0.0	6,0,0
112	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	6,0,0
113	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	6,0,0
114	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
115	0.03	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
116	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
117	0.02	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
118	0.04	0.12	0.0	4,6,0	0.05	0.0	0.0	6,0,0
119	0.03	0.10	0.0	4,6,0	0.04	0.0	0.0	6,0,0
120	0.01	0.06	0.0	6,5,0	0.02	0.0	0.0	5,0,0
121	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
122	0.02	0.09	0.0	6,6,0	0.03	0.0	0.0	6,0,0
123	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	5,0,0
124	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
125	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	6,0,0
126	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
127	0.02	0.09	0.0	6,6,0	0.03	0.0	0.0	6,0,0
128	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
129	0.02	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
130	0.02	0.06	0.0	4,6,0	0.03	0.0	0.0	6,0,0
131	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
132	0.02	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
133	0.05	0.15	0.0	6,6,0	0.06	0.0	0.0	6,0,0
134	0.03	0.12	0.0	6,6,0	0.05	0.0	0.0	6,0,0
135	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	6,0,0
136	7.30e-03	0.14	0.0	6,6,0	0.09	0.0	0.0	6,0,0
137	0.05	0.17	0.0	6,6,0	0.06	0.0	0.0	6,0,0
138	0.02	0.09	0.0	6,6,0	0.04	0.0	0.0	5,0,0
139	9.63e-03	0.03	0.0	4,4,0	0.01	0.0	0.0	4,0,0
140	0.01	0.04	0.0	4,6,0	0.02	0.0	0.0	6,0,0
141	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
142	0.02	0.06	0.0	6,6,0	0.02	0.0	0.0	6,0,0
143	0.03	0.09	0.0	6,5,0	0.03	0.0	0.0	5,0,0
144	0.02	0.07	0.0	4,6,0	0.03	0.0	0.0	6,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
145	3.46e-03	0.01	0.0	6,6,0	3.96e-03	0.0	0.0	6,0,0
146	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
147	5.47e-03	0.02	0.0	4,5,0	0.01	0.0	0.0	5,0,0
148	0.01	0.03	0.0	4,4,0	0.01	0.0	0.0	6,0,0
149	7.82e-03	0.03	0.0	4,6,0	0.01	0.0	0.0	6,0,0
150	7.21e-03	0.04	0.0	4,6,0	0.02	0.0	0.0	6,0,0
151	0.04	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
152	0.04	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
153	5.06e-03	0.04	0.0	4,6,0	0.02	0.0	0.0	6,0,0
154	8.09e-03	0.03	0.0	4,6,0	0.02	0.0	0.0	6,0,0
155	6.65e-03	0.03	0.0	4,6,0	0.02	0.0	0.0	6,0,0
156	0.01	0.06	0.0	4,6,0	0.02	0.0	0.0	6,0,0
157	0.04	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
158	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
159	0.01	0.06	0.0	4,6,0	0.02	0.0	0.0	6,0,0
160	0.01	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
161	0.02	0.07	0.0	4,6,0	0.03	0.0	0.0	6,0,0
162	0.04	0.12	0.0	4,6,0	0.05	0.0	0.0	6,0,0
163	0.06	0.16	0.0	6,6,0	0.06	0.0	0.0	6,0,0
164	0.06	0.14	0.0	6,6,0	0.05	0.0	0.0	6,0,0
165	0.01	0.04	0.0	4,6,0	0.01	0.0	0.0	6,0,0
166	0.02	0.07	0.0	4,6,0	0.03	0.0	0.0	6,0,0
167	0.04	0.12	0.0	6,6,0	0.05	0.0	0.0	6,0,0
168	0.05	0.15	0.0	6,4,0	0.06	0.0	0.0	4,0,0
169	0.05	0.15	0.0	6,4,0	0.06	0.0	0.0	4,0,0
170	0.05	0.15	0.0	6,4,0	0.06	0.0	0.0	4,0,0
171	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
172	0.04	0.12	0.0	6,6,0	0.04	0.0	0.0	6,0,0
173	0.02	0.06	0.0	4,6,0	0.02	0.0	0.0	6,0,0
174	0.03	0.08	0.0	4,6,0	0.03	0.0	0.0	6,0,0
175	0.06	0.14	0.0	6,6,0	0.05	0.0	0.0	6,0,0
176	0.06	0.15	0.0	6,6,0	0.06	0.0	0.0	6,0,0
177	0.02	0.08	0.0	4,6,0	0.03	0.0	0.0	6,0,0
178	0.02	0.07	0.0	4,6,0	0.03	0.0	0.0	6,0,0
179	0.01	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
180	0.02	0.07	0.0	4,6,0	0.03	0.0	0.0	6,0,0
181	0.04	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
182	0.04	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
183	2.93e-03	0.03	0.0	4,6,0	0.02	0.0	0.0	6,0,0
184	6.65e-03	0.03	0.0	4,6,0	0.01	0.0	0.0	6,0,0
185	8.10e-03	0.03	0.0	4,6,0	0.01	0.0	0.0	6,0,0
186	8.09e-03	0.04	0.0	4,6,0	0.02	0.0	0.0	6,0,0
187	0.04	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
188	0.04	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
189	6.36e-03	0.04	0.0	4,6,0	0.02	0.0	0.0	6,0,0
190	8.69e-03	0.04	0.0	4,6,0	0.01	0.0	0.0	6,0,0
191	8.76e-03	0.03	0.0	4,6,0	0.01	0.0	0.0	6,0,0
192	7.38e-03	0.03	0.0	4,6,0	0.02	0.0	0.0	6,0,0
193	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
194	0.04	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
195	7.19e-03	0.03	0.0	4,6,0	9.77e-03	0.0	0.0	6,0,0
196	9.22e-03	0.03	0.0	4,6,0	0.01	0.0	0.0	6,0,0
197	9.37e-03	0.03	0.0	4,6,0	0.01	0.0	0.0	6,0,0
198	4.50e-03	0.01	0.0	4,4,0	4.82e-03	0.0	0.0	4,0,0
199	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
200	8.92e-03	0.03	0.0	4,6,0	0.01	0.0	0.0	6,0,0
201	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
202	0.01	0.04	0.0	4,5,0	0.02	0.0	0.0	5,0,0
203	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
204	5.27e-03	0.13	0.0	6,5,0	0.08	0.0	0.0	5,0,0
205	0.01	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
206	0.02	0.09	0.0	6,5,0	0.04	0.0	0.0	5,0,0
207	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	5,0,0
208	0.02	0.05	0.0	4,4,0	0.02	0.0	0.0	4,0,0
209	0.02	0.12	0.0	6,5,0	0.08	0.0	0.0	5,0,0
210	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
211	0.03	0.10	0.0	6,5,0	0.04	0.0	0.0	5,0,0
212	0.02	0.09	0.0	6,6,0	0.03	0.0	0.0	6,0,0
213	0.05	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
214	0.02	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
215	0.03	0.09	0.0	4,6,0	0.03	0.0	0.0	6,0,0
216	0.02	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
217	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
218	0.02	0.06	0.0	4,4,0	0.02	0.0	0.0	4,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
219	0.03	0.14	0.0	6,6,0	0.08	0.0	0.0	5,0,0
220	0.06	0.16	0.0	6,6,0	0.06	0.0	0.0	6,0,0
221	0.05	0.16	0.0	6,6,0	0.06	0.0	0.0	6,0,0
222	0.01	0.06	0.0	6,5,0	0.02	0.0	0.0	5,0,0
223	0.04	0.11	0.0	4,6,0	0.04	0.0	0.0	6,0,0
224	0.04	0.19	0.0	4,6,0	0.08	0.0	0.0	6,0,0
225	0.03	0.09	0.0	4,6,0	0.04	0.0	0.0	6,0,0
226	0.03	0.09	0.0	6,6,0	0.03	0.0	0.0	6,0,0
227	0.03	0.10	0.0	4,6,0	0.04	0.0	0.0	6,0,0
228	0.05	0.13	0.0	4,6,0	0.05	0.0	0.0	6,0,0
229	0.06	0.23	0.0	6,6,0	0.09	0.0	0.0	6,0,0
230	0.04	0.11	0.0	4,6,0	0.04	0.0	0.0	6,0,0
231	0.03	0.10	0.0	4,6,0	0.04	0.0	0.0	6,0,0
232	0.04	0.12	0.0	4,6,0	0.05	0.0	0.0	6,0,0
233	0.02	0.08	0.0	4,6,0	0.03	0.0	0.0	6,0,0
234	0.02	0.13	0.0	4,6,0	0.08	0.0	0.0	6,0,0
235	0.02	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
236	0.03	0.12	0.0	6,6,0	0.05	0.0	0.0	6,0,0
237	0.02	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
238	0.03	0.09	0.0	4,4,0	0.04	0.0	0.0	4,0,0
239	0.03	0.14	0.0	6,6,0	0.08	0.0	0.0	6,0,0
240	0.05	0.17	0.0	6,6,0	0.06	0.0	0.0	6,0,0
241	0.04	0.12	0.0	4,6,0	0.05	0.0	0.0	6,0,0
242	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
243	0.04	0.12	0.0	6,6,0	0.05	0.0	0.0	6,0,0
244	0.02	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
245	0.02	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
246	0.02	0.09	0.0	6,5,0	0.03	0.0	0.0	5,0,0
247	0.03	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
248	0.02	0.04	0.0	4,6,0	0.02	0.0	0.0	6,0,0
249	0.02	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
250	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
251	0.03	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
252	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
253	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
254	3.52e-03	0.13	0.0	6,6,0	0.08	0.0	0.0	6,0,0
255	0.01	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
256	0.01	0.09	0.0	6,5,0	0.03	0.0	0.0	5,0,0
257	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	6,0,0
258	0.01	0.04	0.0	4,6,0	0.02	0.0	0.0	5,0,0
259	6.86e-03	0.12	0.0	6,6,0	0.08	0.0	0.0	6,0,0
260	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
261	0.03	0.10	0.0	6,6,0	0.04	0.0	0.0	5,0,0
262	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	6,0,0
263	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
264	6.67e-03	0.12	0.0	6,6,0	0.08	0.0	0.0	6,0,0
265	0.01	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
266	0.01	0.09	0.0	6,5,0	0.03	0.0	0.0	5,0,0
267	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	6,0,0
268	0.01	0.04	0.0	4,5,0	0.02	0.0	0.0	5,0,0
269	6.35e-03	0.12	0.0	6,6,0	0.08	0.0	0.0	5,0,0
270	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
271	0.03	0.10	0.0	6,6,0	0.04	0.0	0.0	5,0,0
272	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
273	0.04	0.10	0.0	6,6,0	0.04	0.0	0.0	6,0,0
274	7.63e-03	0.12	0.0	6,5,0	0.08	0.0	0.0	5,0,0
275	0.01	0.07	0.0	4,5,0	0.03	0.0	0.0	5,0,0
276	0.01	0.08	0.0	5,5,0	0.03	0.0	0.0	5,0,0
277	0.02	0.08	0.0	6,6,0	0.03	0.0	0.0	5,0,0
278	4.31e-03	0.12	0.0	5,5,0	0.08	0.0	0.0	5,0,0
279	0.01	0.08	0.0	4,5,0	0.03	0.0	0.0	5,0,0
280	0.01	0.09	0.0	5,5,0	0.04	0.0	0.0	5,0,0
281	0.02	0.09	0.0	6,6,0	0.04	0.0	0.0	6,0,0
282	0.01	0.12	0.0	6,6,0	0.08	0.0	0.0	5,0,0
283	0.04	0.13	0.0	6,6,0	0.05	0.0	0.0	6,0,0
284	0.03	0.10	0.0	6,6,0	0.04	0.0	0.0	5,0,0
285	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
286	0.01	0.05	0.0	6,6,0	0.02	0.0	0.0	6,0,0
287	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
288	0.02	0.07	0.0	4,6,0	0.03	0.0	0.0	6,0,0
289	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
290	0.03	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
291	0.01	0.05	0.0	6,6,0	0.02	0.0	0.0	6,0,0
292	0.01	0.05	0.0	6,6,0	0.02	0.0	0.0	6,0,0

Guscio	rRfck	rRfyk	rPfck	Rif. cmb	wR	wF	wP	Rif. cmb
293	0.01	0.04	0.0	6,6,0	0.02	0.0	0.0	6,0,0
294	0.02	0.09	0.0	6,5,0	0.03	0.0	0.0	5,0,0
295	0.02	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
296	0.05	0.14	0.0	6,6,0	0.06	0.0	0.0	6,0,0
297	0.05	0.14	0.0	4,6,0	0.06	0.0	0.0	6,0,0
298	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
299	0.03	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
300	0.02	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
301	0.02	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
302	0.02	0.09	0.0	6,5,0	0.04	0.0	0.0	5,0,0
303	0.02	0.09	0.0	4,5,0	0.03	0.0	0.0	5,0,0
304	0.01	0.05	0.0	6,6,0	0.02	0.0	0.0	6,0,0
305	0.02	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
306	0.01	0.05	0.0	6,6,0	0.02	0.0	0.0	6,0,0
307	0.03	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
308	0.03	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
309	0.04	0.11	0.0	6,6,0	0.04	0.0	0.0	6,0,0
310	0.04	0.12	0.0	6,6,0	0.04	0.0	0.0	6,0,0
311	0.05	0.14	0.0	4,6,0	0.06	0.0	0.0	6,0,0
312	0.02	0.07	0.0	4,6,0	0.03	0.0	0.0	6,0,0
313	0.05	0.14	0.0	6,6,0	0.06	0.0	0.0	6,0,0
314	0.02	0.07	0.0	6,6,0	0.03	0.0	0.0	6,0,0
315	0.02	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
316	0.01	0.05	0.0	6,6,0	0.02	0.0	0.0	6,0,0
317	0.02	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
318	0.01	0.05	0.0	4,6,0	0.02	0.0	0.0	6,0,0
319	0.02	0.08	0.0	6,5,0	0.03	0.0	0.0	5,0,0
320	0.01	0.06	0.0	4,6,0	0.02	0.0	0.0	6,0,0
Guscio	**rRfck**	**rRfyk**	**rPfck**		**wR**	**wF**	**wP**	
	0.06	0.28	0.0		0.19	0.0	0.0	

APPENDICE A CALCOLO DELLA STRUTTURA COME PARATIA DI PALI – MODELLAZIONE FEM 2D

Calcolo Paratia

Report Tecnico

07.10.2025

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1 Modello Geometrico

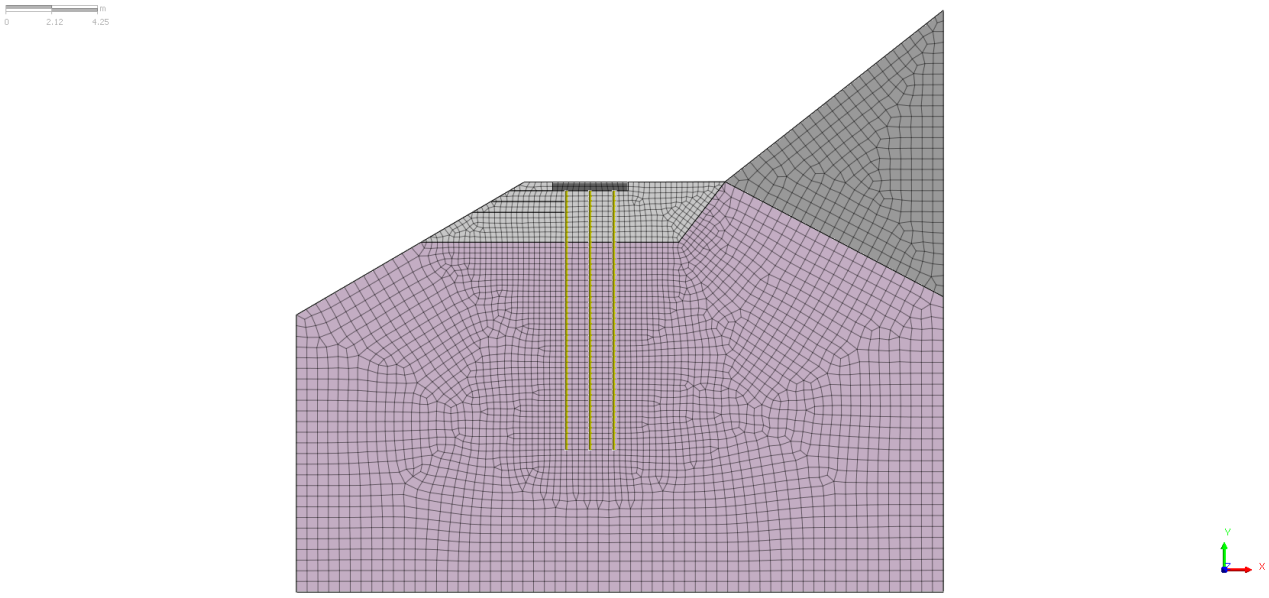


Figura 1 Modello geometrico FEM.

2 Condizioni al contorno

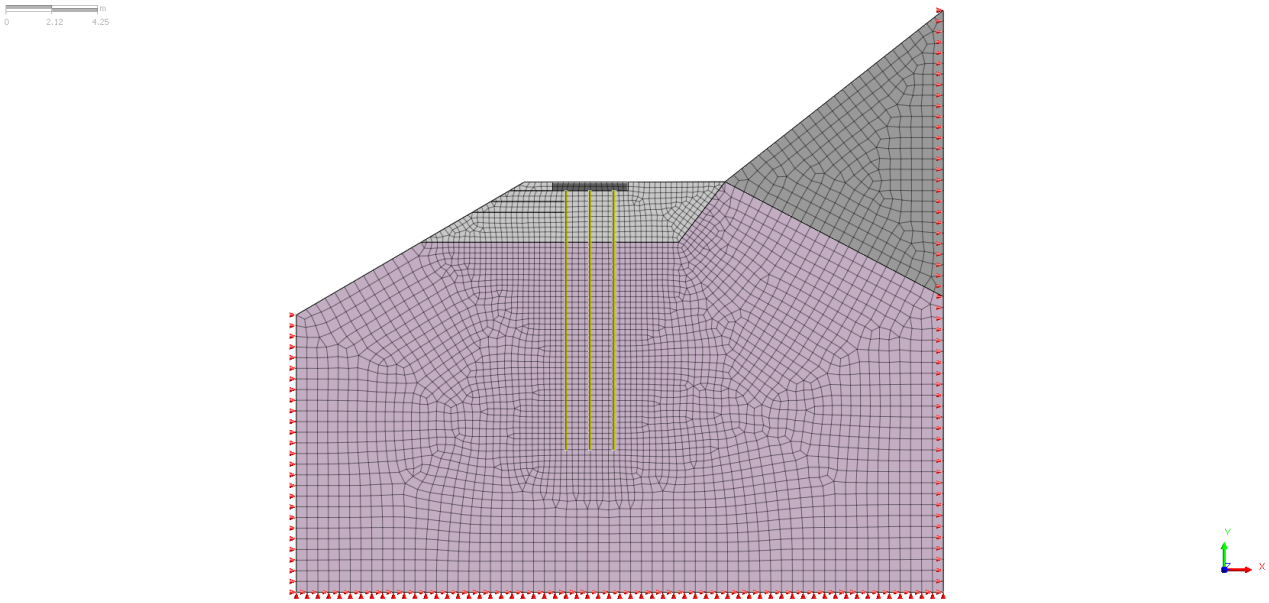


Figura 2Condizioni al contorno.

3 Proprietà dei terreni e degli elementi strutturali

Tabella 1Proprietà meccaniche dei terreni

ID	Name	Model Type	Modulus of Elasticity (kN/m^2)	Wet Unit Weight (kN/m^3)	Saturated Unit Weight (kN/m^3)	Poisson's Ratio	Cohesion (kN/m^2)	Internal Friction Angle ([deg])
1	Materiale di riporto	Mohr-Coulomb	5.000	19.2	-	0.33	0	23
2	Scaglia Rossa	Mohr-Coulomb	39.000	22.5	-	0.32	50	28
4	Calcari alterati	Mohr-Coulomb	80.000	24.5	-	0.30	150	35

Tabella 2 Caratteristiche degli elementi strutturali

ID	Name	Member Type	Modulus of Elasticity (kN/m^2)	Poisson's Ratio	Unit Weight (kN/m^3)	Horizontal Spacing (m)	Section Shape
1	Micropali	Beam	2.1e+008	0.27	78.5	2.0	Pipe
2	Calcestruzzo	Plane	3.2e+007	0.12	25	-	-

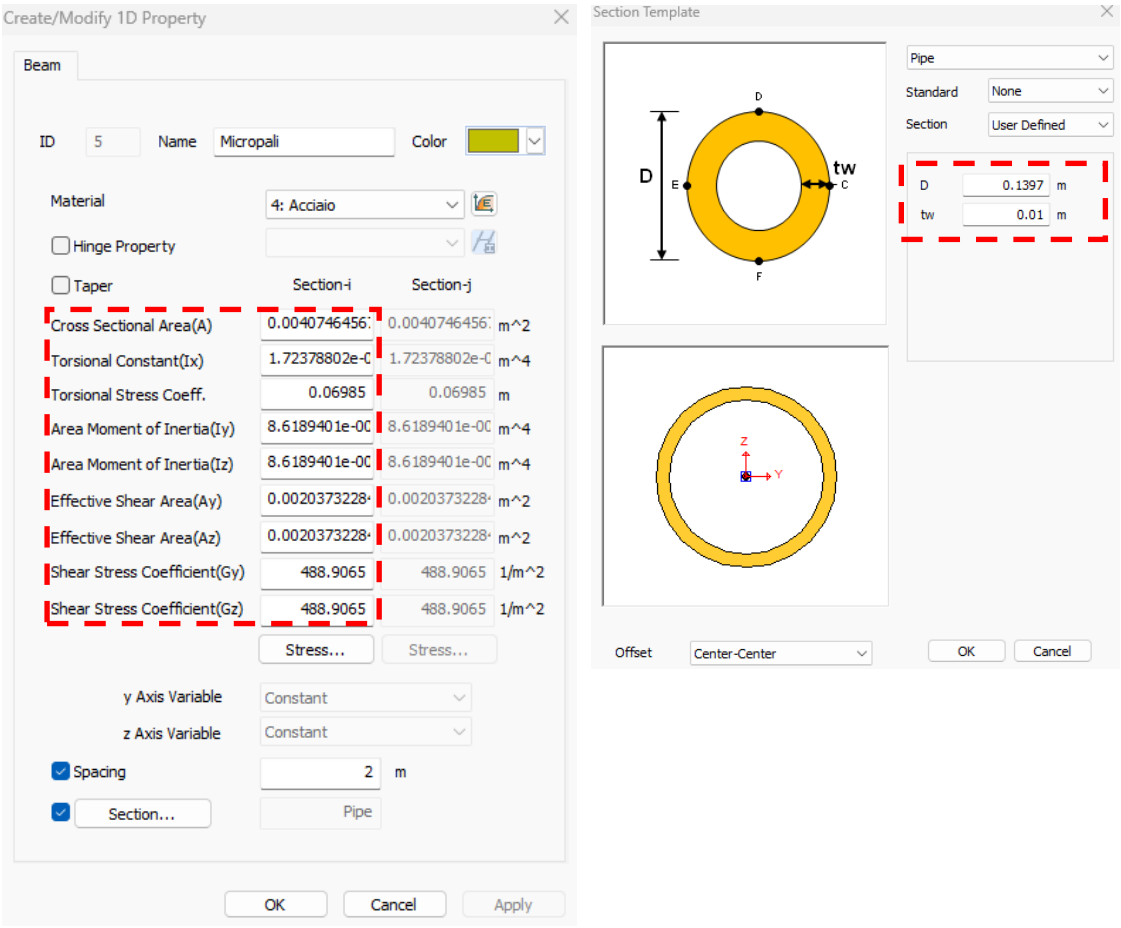


Figura 3Caratteristiche della sezione resistente dei micropali.

4 Carichi di progetto

ID	Name	Type	Q (kN/m^2)	Fx (kN)	Fy(kN)	Mz(kN)
1	Carico stradale	Uniforme	10.00	-	-	-
2	Urto sicurvia	Concentrato	-	-42	-	-

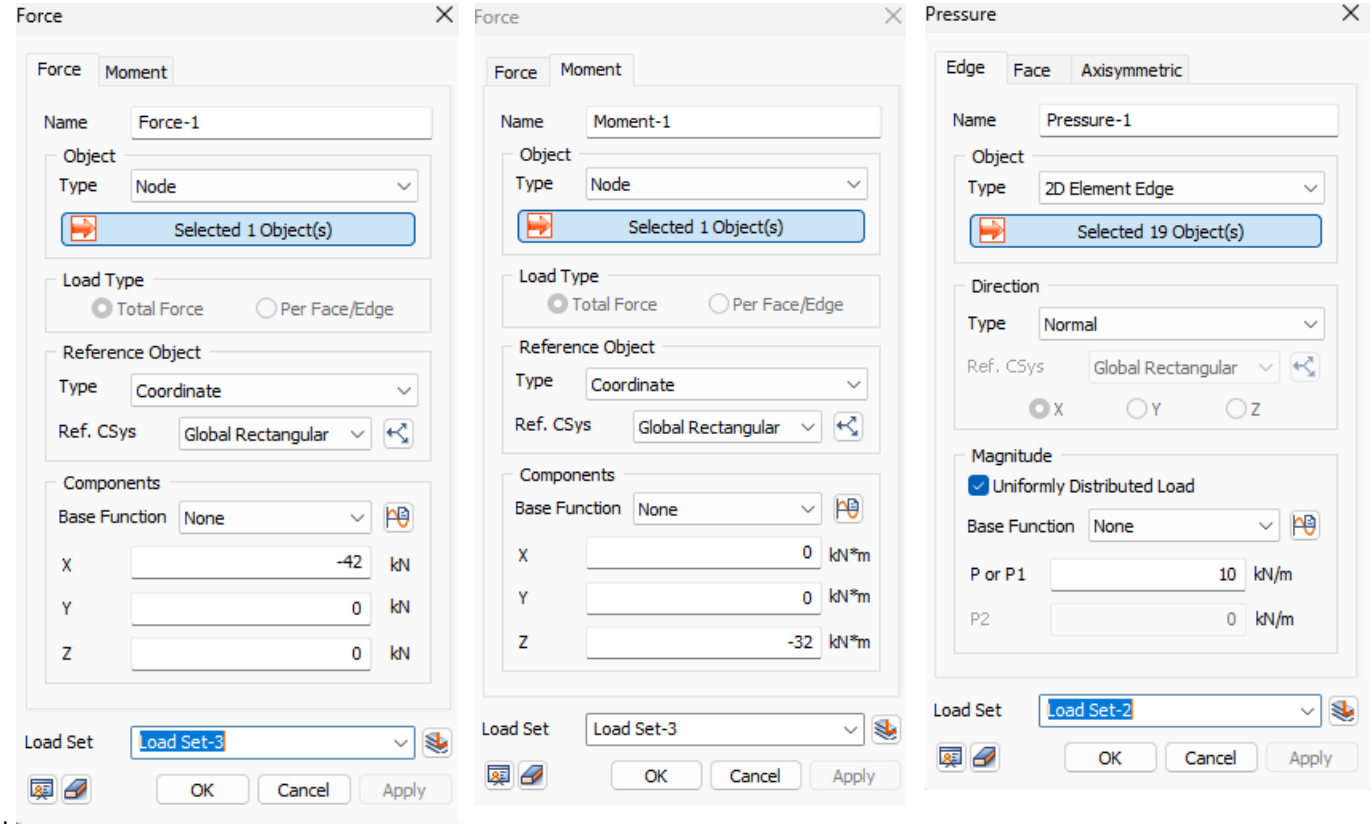


Figura 4 Carichi agenti dovuti al traffico stradale e all'urto del sicurvia.

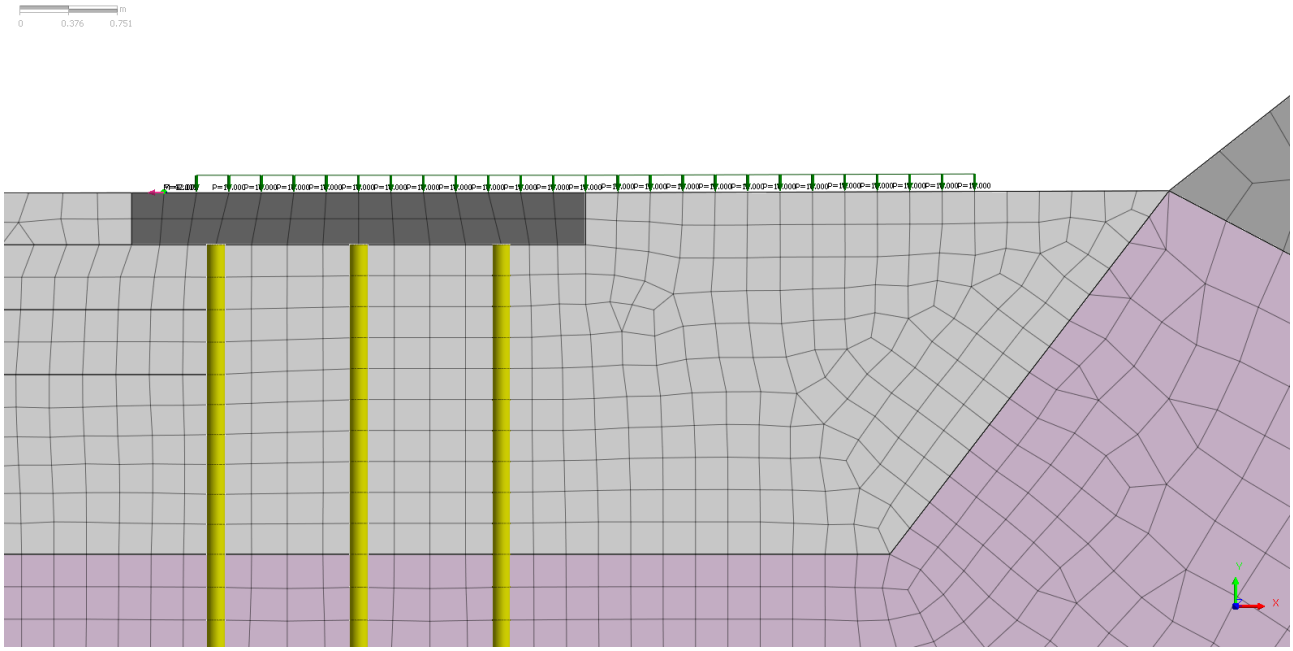


Figura 5Schema di carico.

5 Combinazioni di carico

ID	Peso proprio	Carico stradale	Azione sicurvia	Sisma	Type
A1+M1+R1	1.3	1.5	-	-	STRU
A1+M1+SISMA	1.0	1.0	-	1.0	STRU
ECCEZIONALE	1.0	1.0	1.0	0.0	STRU

6 Risultati delle analisi

6.1 Combinazione A1+M1+R1

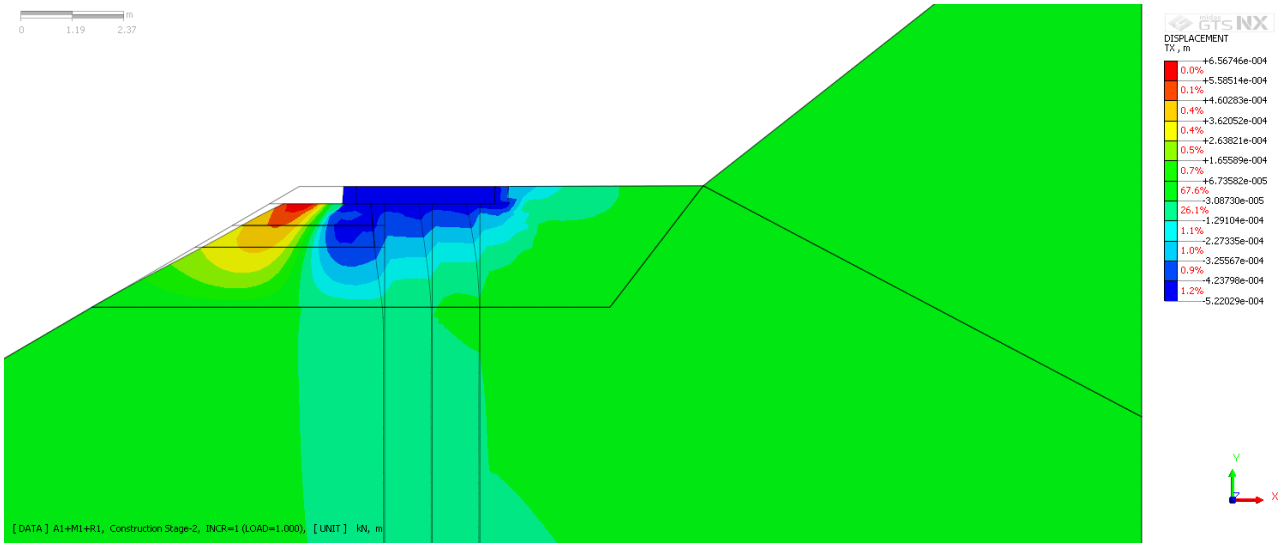


Figura 6Deformazione orizzontale fase 1. H terreno non collaborante 0.5 m.

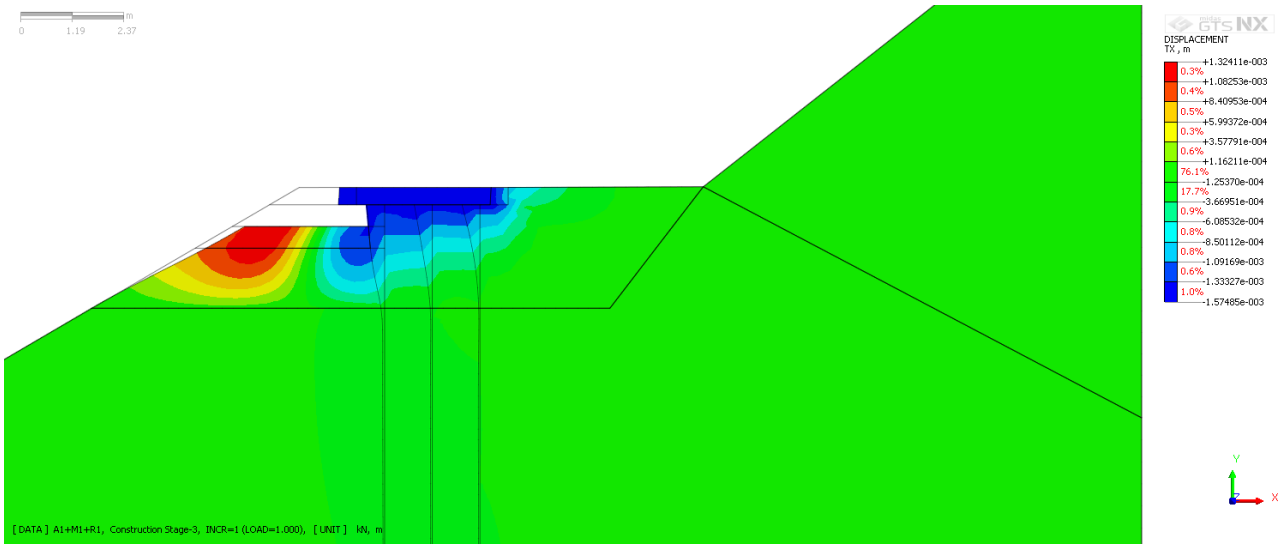


Figura 7 Deformazione orizzontale fase 2. H terreno non collaborante 1.0 m.

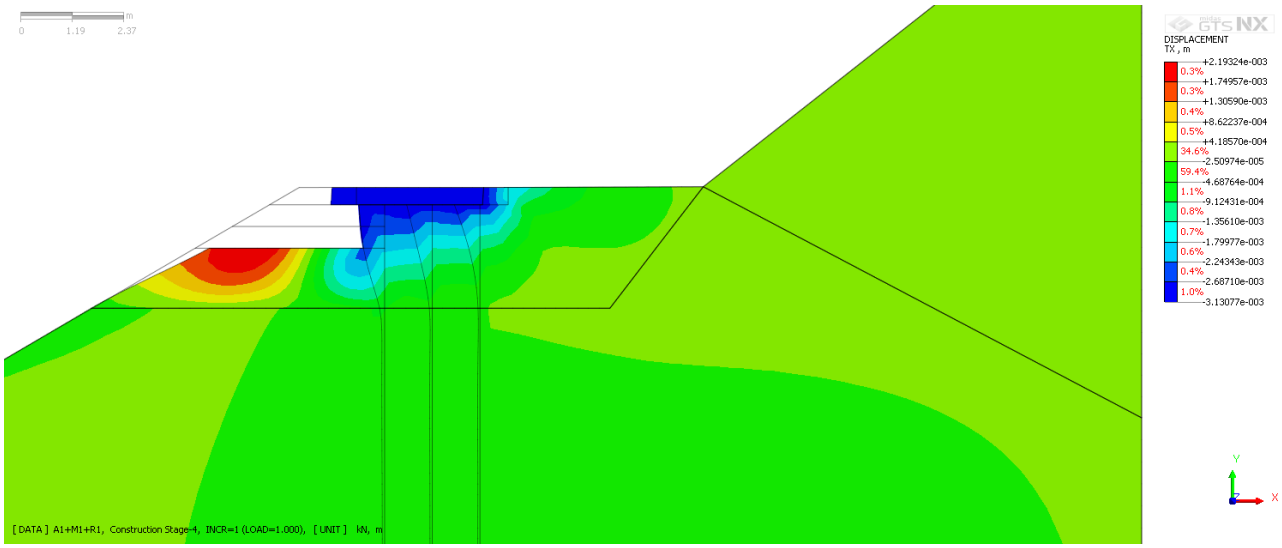


Figura 8 Deformazione orizzontale fase 3. H terreno non collaborante 1.5 m.

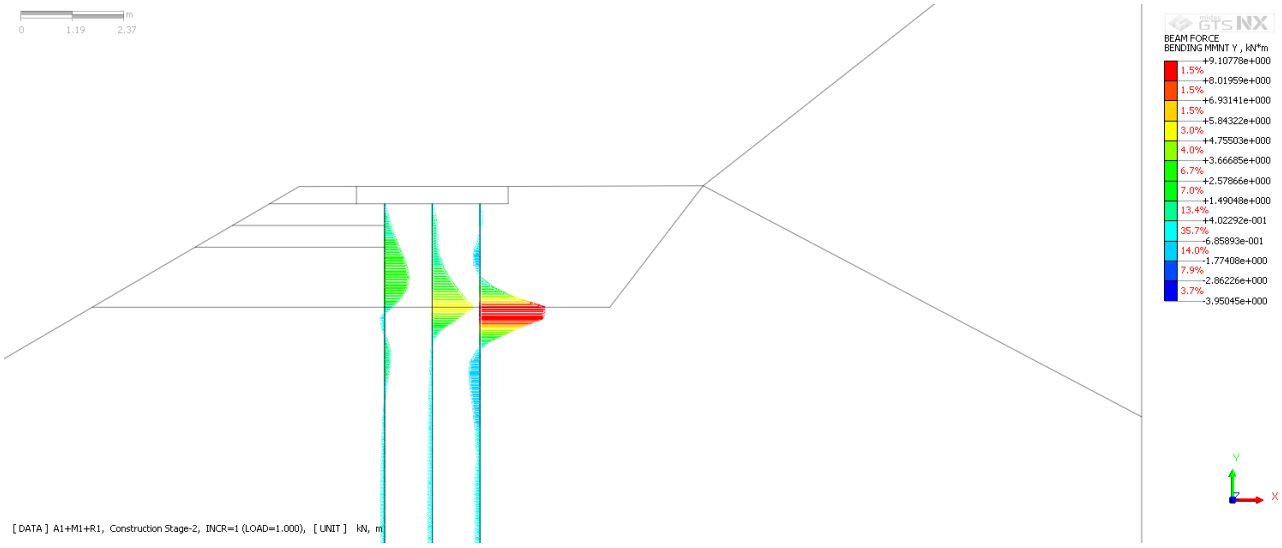


Figura 9Diagramma del momento flettente dei micropali FASE 3.

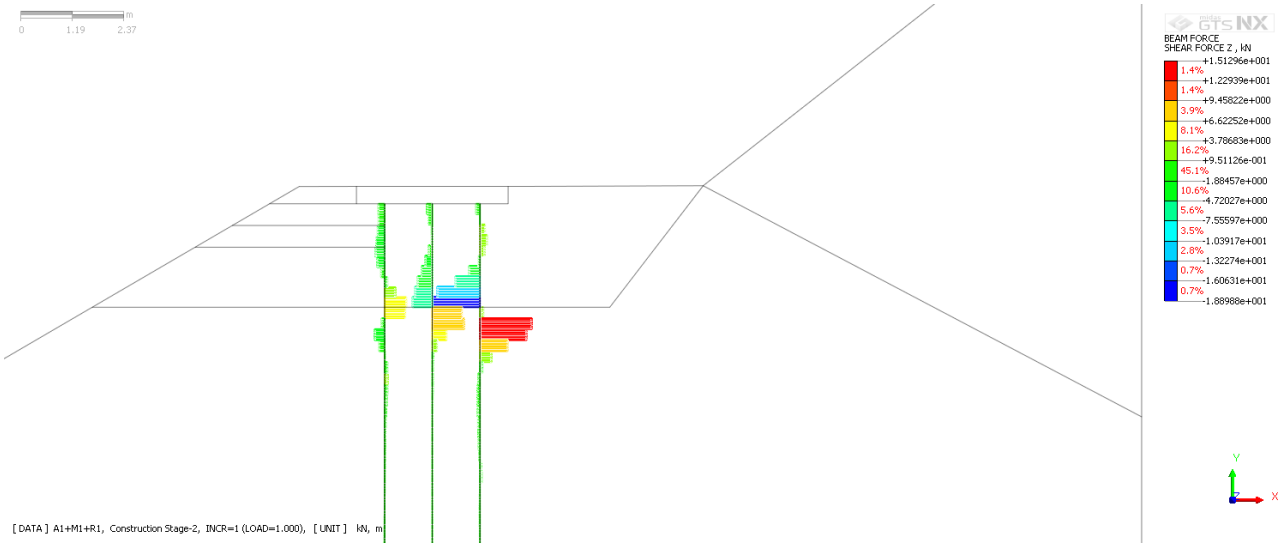


Figura 10 Diagramma del taglio dei micropali FASE 3.

Tabella 3 TABULATO DI CALCOLO MICROPALO ANTERIORE FASE 3

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-4:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-4:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-4:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6564	12.53342518	18.47751634	0	-6.782612793	0	0.282178192	0	-1.51E-15	0
2	6565	12.53342518	18.22751634	0	-7.148433594	0	1.630990479	0	-0.070544548	0
3	6566	12.53342518	17.97751634	0	-8.799568359	0	0.183966553	0	-0.478292145	0
4	6567	12.53342518	17.72751634	0	-12.13376465	0	-3.724187988	0	-0.524283813	0
5	6570	12.53342518	17.48720706	0	-13.03549121	0	-3.323101563	0	0.406763184	0
6	6569	12.53342518	17.25658848	0	-16.38837305	0	-2.913972656	0	1.173132202	0
7	6571	12.53342518	17.02596991	0	-21.30086133	0	-3.114387207	0	1.845148315	0
8	6568	12.53342518	16.79535134	0	-27.27538086	0	-3.216539062	0	2.563383789	0
9	6572	12.53342518	16.56473277	0	-33.84246094	0	-3.123748779	0	3.30517749	0
10	6573	12.53342518	16.3341142	0	-40.68319531	0	-2.026445068	0	4.025572021	0
11	**6605**	**12.53342518**	**16.0922748**	**0**	**-63.90440625**	**0**	**7.732122559**	**0**	**4.492907715**	**0**
12	6601	12.53342518	15.83921458	0	-92.09190625	0	5.721059082	0	2.536215332	0
13	6579	12.53342518	15.58615435	0	-128.6822266	0	0.878303406	0	1.088442749	0
14	6599	12.53342518	15.33309412	0	-164.792375	0	0.030881491	0	0.866179138	0
15	6598	12.53342518	15.0800339	0	-198.8629844	0	0.554683655	0	0.858364258	0
16	6580	12.53342518	14.82697367	0	-231.2827031	0	0.878775635	0	0.717995911	0
17	6582	12.53342518	14.57391345	0	-262.6733125	0	0.898799805	0	0.495612762	0
18	6592	12.53342518	14.32085322	0	-293.371	0	0.76736438	0	0.268162262	0
19	6577	12.53342518	14.067793	0	-323.55375	0	0.594211609	0	0.073972878	0
20	6609	12.53342518	13.81473277	0	-353.2935	0	0.43618277	0	-0.076398445	0
21	6597	12.53342518	13.56167254	0	-382.6010313	0	0.311447449	0	-0.186778961	0
22	6608	12.53342518	13.30861232	0	-411.4500938	0	0.220391815	0	-0.265593903	0
23	6588	12.53342518	13.05555209	0	-439.7946875	0	0.156952942	0	-0.321366302	0
24	6590	12.53342518	12.80249187	0	-467.5789375	0	0.113847252	0	-0.361084869	0
25	6585	12.53342518	12.54943164	0	-494.7439375	0	0.084498993	0	-0.389895081	0
26	6603	12.53342518	12.29637142	0	-521.2307812	0	0.062717403	0	-0.411278412	0
27	6606	12.53342518	12.04331119	0	-546.9776875	0	0.044338665	0	-0.427149689	0
28	6593	12.53342518	11.79025097	0	-571.9243125	0	0.025076008	0	-0.438370056	0
29	6589	12.53342518	11.53719074	0	-595.99625	0	0.004940166	0	-0.44471579	0
30	6596	12.53342518	11.28413051	0	-619.127	0	-0.018855019	0	-0.445965942	0
31	6574	12.53342518	11.03107029	0	-641.2158125	0	-0.047138268	0	-0.441194489	0
32	6583	12.53342518	10.77801006	0	-662.17175	0	-0.072988548	0	-0.429265656	0
33	6575	12.53342518	10.52494984	0	-681.882625	0	-0.107966942	0	-0.410795166	0
34	6578	12.53342518	10.27188961	0	-700.1710625	0	-0.169631668	0	-0.383473022	0
35	6600	12.53342518	10.01882939	0	-716.8724375	0	-0.245827637	0	-0.34054599	0
36	6586	12.53342518	9.765769161	0	-731.7510625	0	-0.35244278	0	-0.278336792	0
37	6576	12.53342518	9.512708936	0	-744.52275	0	-0.497756165	0	-0.189147552	0
38	6591	12.53342518	9.25964871	0	-754.7856875	0	-0.710239563	0	-0.063185272	0

39	6610	12.53342518	9.006588485	0	-761.9773125	0	-0.978735596	0	0.116548103	0
40	6602	12.53342518	8.753528259	0	-765.3276875	0	-1.251442749	0	0.364227142	0
41	6594	12.53342518	8.500468033	0	-763.693	0	-1.360355469	0	0.680917542	0
42	6595	12.53342518	8.247407808	0	-755.365375	0	-0.89596698	0	1.025169434	0
43	6584	12.53342518	7.994347582	0	-737.6500625	0	0.965764282	0	1.251902954	0
44	6604	12.53342518	7.741287357	0	-706.36025	0	4.726333496	0	1.00750647	0
45	6581	12.53342518	7.488227131	0	-655.2390625	0	7.049935547	0	-0.188540604	0
46	6587	12.53342518	7.235166905	0	-583.6448125	0	5.105036133	0	-1.972598877	0
47	6611	12.53342518	6.98210668	0	-489.4785938	0	-1.876696411	0	-3.264480469	0
48	6607	12.53342518	6.729046454	0	-361.6203125	0	-11.02331836	0	-2.789563232	0

Tabella 4 TABULATO DI CALCOLO MICROPALO CENTRALE FASE 3

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-4:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-4:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-4:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6612	13.63342518	18.48333077	0	-169.2496406	0	-1.721361938	0	2.19E-15	0
2	6613	13.63342518	18.24495963	0	-170.3255938	0	-1.089066406	0	0.410323029	0
3	6614	13.63342518	18.00658848	0	-173.6728594	0	-0.083006386	0	0.669924988	0
4	6615	13.63342518	17.76821734	0	-179.5864687	0	-0.318739349	0	0.689711365	0
5	6616	13.63342518	17.5298462	0	-187.3884844	0	-1.590375854	0	0.765689575	0
6	6617	13.63342518	17.29147506	0	-196.0580313	0	-3.054408447	0	1.144789307	0
7	6618	13.63342518	17.05310391	0	-204.9983125	0	-4.538369141	0	1.872872192	0
8	6619	13.63342518	16.81473277	0	-213.8084062	0	-5.83323877	0	2.954688477	0
9	6620	13.63342518	16.57636163	0	-221.9558906	0	-6.664456055	0	4.345164063	0
10	6621	13.63342518	16.33799048	0	-229.3142031	0	-7.403037109	0	5.93377832	0
11	**6630**	**13.63342518**	**16.0922748**	**0**	**-243.1968125**	**0**	**10.1202998**	**0**	**7.69844873**	**0**
12	6648	13.63342518	15.83921458	0	-261.6507813	0	12.89185352	0	5.13740332	0
13	6652	13.63342518	15.58615435	0	-279.3523125	0	6.083356934	0	1.874988037	0
14	6647	13.63342518	15.33309412	0	-293.759625	0	2.087466797	0	0.335532318	0
15	6650	13.63342518	15.0800339	0	-306.1454688	0	0.511846924	0	-0.192722504	0
16	6643	13.63342518	14.82697367	0	-317.7475	0	0.183151627	0	-0.32225061	0
17	6622	13.63342518	14.57391345	0	-329.5256563	0	0.160808243	0	-0.368598999	0
18	6644	13.63342518	14.32085322	0	-342.0297187	0	0.149261703	0	-0.409293152	0
19	6645	13.63342518	14.067793	0	-355.4615313	0	0.097846657	0	-0.447065369	0
20	6655	13.63342518	13.81473277	0	-369.7960313	0	0.03610677	0	-0.471826477	0
21	6659	13.63342518	13.56167254	0	-384.8862813	0	-0.009442306	0	-0.480963654	0
22	6623	13.63342518	13.30861232	0	-400.5351875	0	-0.027717197	0	-0.478574188	0
23	6640	13.63342518	13.05555209	0	-416.5394688	0	-0.02007571	0	-0.471560059	0
24	6649	13.63342518	12.80249187	0	-432.7153437	0	0.00471486	0	-0.466479706	0
25	6641	13.63342518	12.54943164	0	-448.9131562	0	0.03401828	0	-0.467672852	0
26	6654	13.63342518	12.29637142	0	-465.0235937	0	0.055267673	0	-0.476281525	0

27	6631	13.63342518	12.04331119	0	-480.97425	0	0.060410557	0	-0.490267548	0
28	6651	13.63342518	11.79025097	0	-496.7190938	0	0.048610439	0	-0.505555054	0
29	6635	13.63342518	11.53719074	0	-512.224875	0	0.025513899	0	-0.517856445	0
30	6646	13.63342518	11.28413051	0	-527.4615	0	-0.000683157	0	-0.524312988	0
31	6636	13.63342518	11.03107029	0	-542.3993125	0	-0.023509045	0	-0.524140137	0
32	6626	13.63342518	10.77801006	0	-557.0123125	0	-0.040337368	0	-0.518190918	0
33	6639	13.63342518	10.52494984	0	-571.2826875	0	-0.051947594	0	-0.507983124	0
34	6627	13.63342518	10.27188961	0	-585.203875	0	-0.060711281	0	-0.49483725	0
35	6658	13.63342518	10.01882939	0	-598.779375	0	-0.06896788	0	-0.479473633	0
36	6637	13.63342518	9.765769161	0	-612.01575	0	-0.078085968	0	-0.46202063	0
37	6628	13.63342518	9.512708936	0	-624.9060625	0	-0.088046036	0	-0.442260162	0
38	6624	13.63342518	9.25964871	0	-637.3979375	0	-0.097120949	0	-0.419979218	0
39	6633	13.63342518	9.006588485	0	-649.332625	0	-0.10053714	0	-0.395401764	0
40	6625	13.63342518	8.753528259	0	-660.3375	0	-0.084474113	0	-0.369959808	0
41	6629	13.63342518	8.500468033	0	-669.639125	0	-0.007937638	0	-0.348582764	0
42	6642	13.63342518	8.247407808	0	-675.7693125	0	0.236117462	0	-0.346574066	0
43	6653	13.63342518	7.994347582	0	-676.083875	0	0.851391174	0	-0.406326019	0
44	6638	13.63342518	7.741287357	0	-666.260625	0	2.041716431	0	-0.621779236	0
45	6632	13.63342518	7.488227131	0	-639.464625	0	4.052547119	0	-1.138456421	0
46	6656	13.63342518	7.235166905	0	-586.4663125	0	5.268556641	0	-2.163994873	0
47	6657	13.63342518	6.98210668	0	-495.0019688	0	-3.26826416	0	-3.49725708	0
48	6634	13.63342518	6.729046454	0	-362.7775937	0	-10.55159668	0	-2.670189453	0

Tabella 5 TABULATO DI CALCOLO MICROPALO POSTERIORE FASE 3

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-4:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-4:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-4:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-4:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6664	14.73342518	18.48333077	0	-53.39563281	0	-3.022343262	0	-7.36E-15	0
2	6665	14.73342518	18.24495963	0	-54.26736328	0	-1.308807495	0	0.720439392	0
3	6666	14.73342518	18.00658848	0	-57.01518359	0	0.540277283	0	1.032421387	0
4	6660	14.73342518	17.76821734	0	-62.26238281	0	1.291265259	0	0.903634827	0
5	6667	14.73342518	17.5298462	0	-69.17560156	0	0.849687256	0	0.595834473	0
6	6663	14.73342518	17.29147506	0	-77.03414063	0	-0.573694153	0	0.393293549	0
7	6668	14.73342518	17.05310391	0	-85.65317187	0	-3.224587891	0	0.530045654	0
8	6661	14.73342518	16.81473277	0	-94.52440625	0	-7.041754395	0	1.298694458	0
9	6662	14.73342518	16.57636163	0	-103.3954375	0	-12.16239648	0	2.977245605	0
10	6669	14.73342518	16.33799048	0	-113.1410078	0	-18.38481055	0	5.876409668	0
11	**6680**	**14.73342518**	**16.0922748**	**0**	**-129.5042422**	**0**	**2.615599609**	**0**	**10.25881836**	**0**
12	6675	14.73342518	15.83921458	0	-143.3943125	0	16.6970332	0	9.596914062	0
13	6707	14.73342518	15.58615435	0	-166.5665	0	14.55710547	0	5.371558594	0
14	6676	14.73342518	15.33309412	0	-196.6766406	0	8.517866211	0	1.687734375	0

15	6694	14.73342518	15.0800339	0	-229.7459375	0	3.563060547	0	-0.467798676	0
16	6693	14.73342518	14.82697367	0	-264.1043438	0	0.776875793	0	-1.369467651	0
17	6678	14.73342518	14.57391345	0	-299.16125	0	-0.45851535	0	-1.566063965	0
18	6687	14.73342518	14.32085322	0	-334.8178125	0	-0.828350708	0	-1.450031982	0
19	6695	14.73342518	14.067793	0	-371.0833125	0	-0.819981812	0	-1.240409302	0
20	6697	14.73342518	13.81473277	0	-407.956125	0	-0.693835144	0	-1.032904541	0
21	6684	14.73342518	13.56167254	0	-445.3860312	0	-0.566956848	0	-0.85732251	0
22	6699	14.73342518	13.30861232	0	-483.2826563	0	-0.477692932	0	-0.713848267	0
23	6690	14.73342518	13.05555209	0	-521.529375	0	-0.418739471	0	-0.592963196	0
24	6671	14.73342518	12.80249187	0	-559.9891875	0	-0.33260788	0	-0.486996887	0
25	6682	14.73342518	12.54943164	0	-598.4978125	0	-0.070100929	0	-0.402827057	0
26	6683	14.73342518	12.29637142	0	-636.789375	0	0.665134644	0	-0.385087311	0
27	6702	14.73342518	12.04331119	0	-672.5145	0	0.43559314	0	-0.553406433	0
28	6670	14.73342518	11.79025097	0	-705.242875	0	0.046822655	0	-0.663637695	0
29	6706	14.73342518	11.53719074	0	-735.5315625	0	-0.096987839	0	-0.675486694	0
30	6688	14.73342518	11.28413051	0	-763.6380625	0	-0.112299065	0	-0.650942932	0
31	6703	14.73342518	11.03107029	0	-789.6455	0	-0.079839622	0	-0.622524475	0
32	6672	14.73342518	10.77801006	0	-813.5455	0	-0.03575824	0	-0.602320251	0
33	6700	14.73342518	10.52494984	0	-835.2953125	0	0.012463812	0	-0.59327124	0
34	6701	14.73342518	10.27188961	0	-854.7821875	0	0.073075737	0	-0.596425354	0
35	6685	14.73342518	10.01882939	0	-871.870375	0	0.145755478	0	-0.614917908	0
36	6679	14.73342518	9.765769161	0	-886.3645625	0	0.243730667	0	-0.651802856	0
37	6677	14.73342518	9.512708936	0	-897.998125	0	0.377641785	0	-0.713481384	0
38	6704	14.73342518	9.25964871	0	-906.4056875	0	0.558400024	0	-0.809047485	0
39	6686	14.73342518	9.006588485	0	-911.05125	0	0.787797729	0	-0.950356323	0
40	6681	14.73342518	8.753528259	0	-911.183625	0	1.061436157	0	-1.149716553	0
41	6692	14.73342518	8.500468033	0	-905.67625	0	1.366483765	0	-1.418323853	0
42	6673	14.73342518	8.247407808	0	-892.8453125	0	1.691004761	0	-1.764126587	0
43	6698	14.73342518	7.994347582	0	-870.138	0	2.02863147	0	-2.192052734	0
44	6691	14.73342518	7.741287357	0	-833.5214375	0	2.472060059	0	-2.705418457	0
45	6696	14.73342518	7.488227131	0	-776.6970625	0	2.514144531	0	-3.330998779	0
46	6689	14.73342518	7.235166905	0	-689.9970625	0	-2.356538086	0	-3.967228516	0
47	6705	14.73342518	6.98210668	0	-568.4659375	0	-8.680379883	0	-3.370882568	0
48	6674	14.73342518	6.729046454	0	-409.05375	0	-4.640096191	0	-1.174223755	0

6.2 Combinazione A1+M1+SISMA

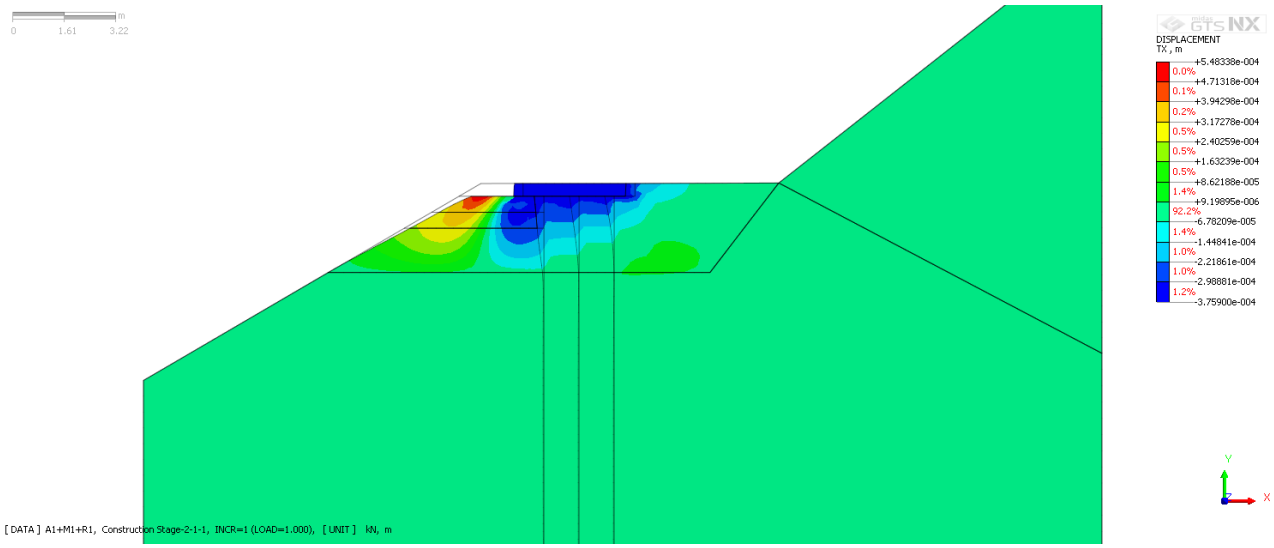


Figura 11 Deformazione orizzontale fase 1. H terreno non collaborante 0.5 m.

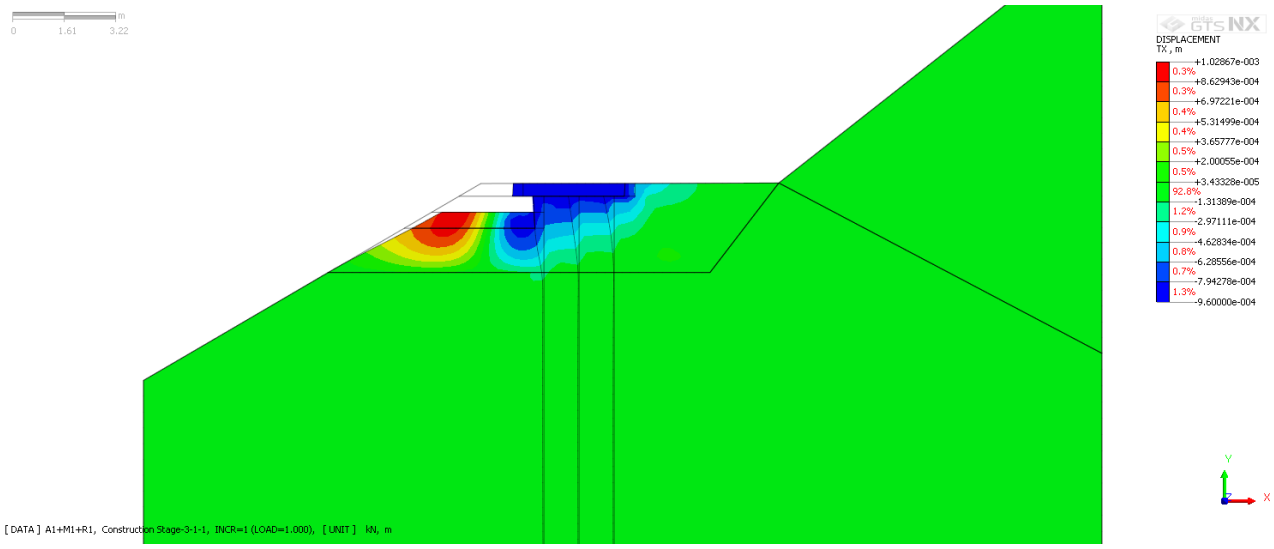


Figura 12 Deformazione orizzontale fase 2. H terreno non collaborante 1.0 m.

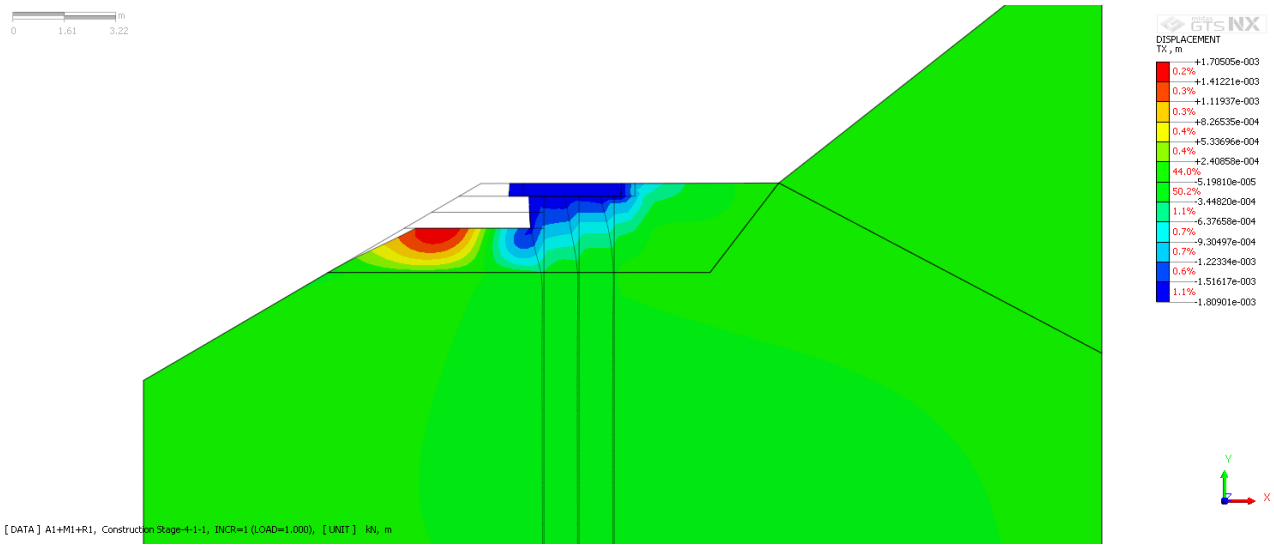


Figura 13 Deformazione orizzontale fase 3. H terreno non collaborante 1.5 m.

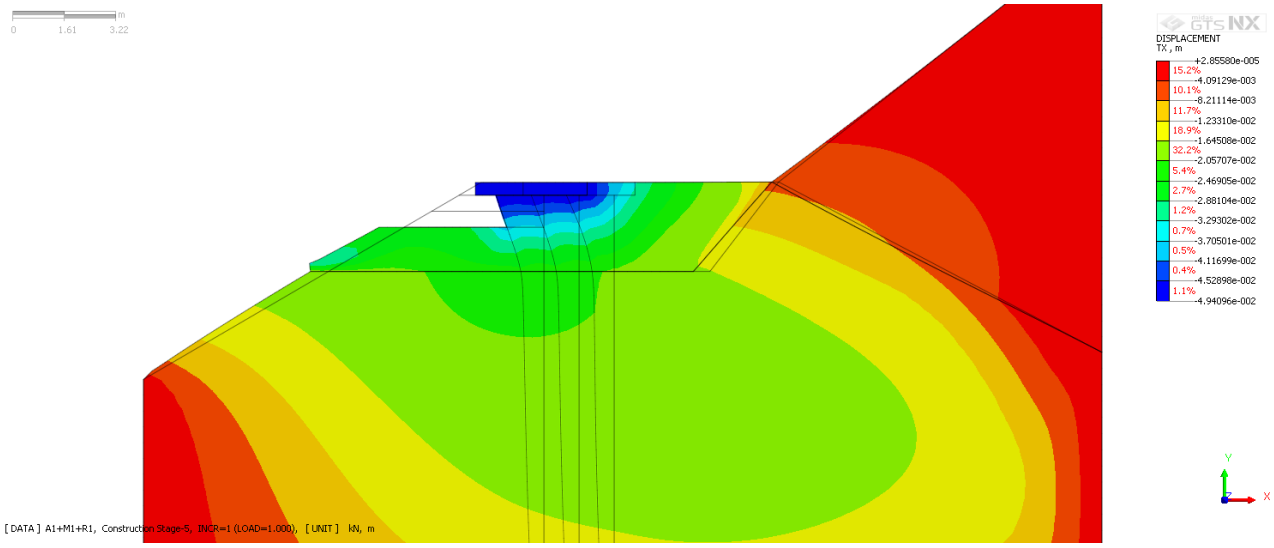


Figura 14 Deformazione orizzontale fase 4. H terreno non collaborante 1.5 m. APPLICAZIONE DELLA FORZANTE SISMICA.

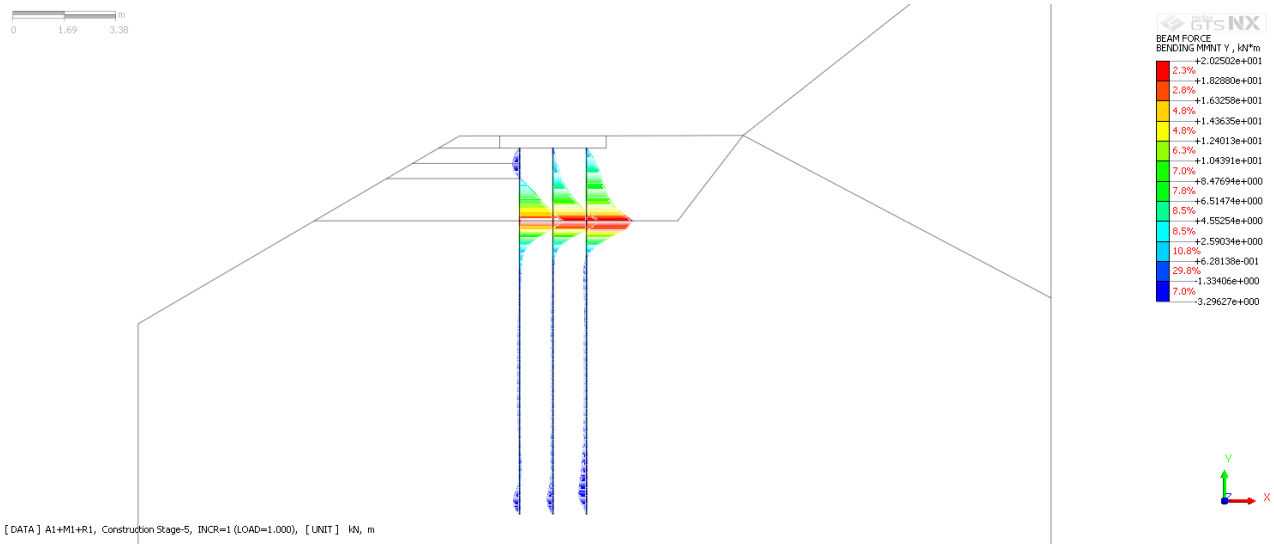


Figura 15 Diagramma del momento flettente dei micropali FASE 4.

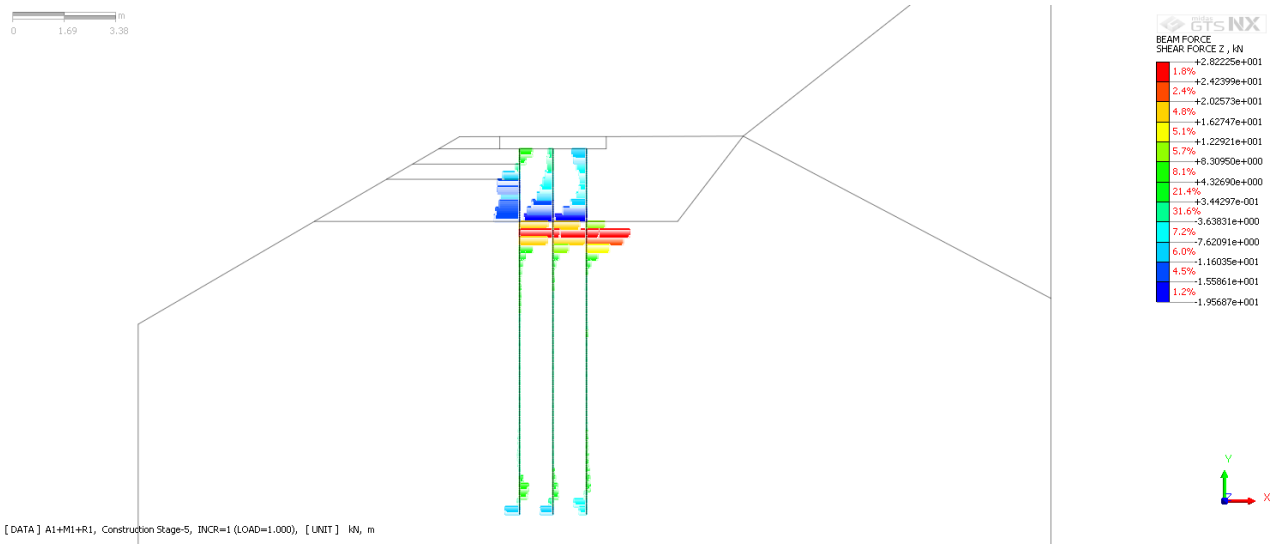


Figura 16 Diagramma del taglio dei micropali FASE 4.

Tabella 6 TABULATO DI CALCOLO MICROPALO ANTERIORE FASE 4

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-5:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-5:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-5:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6564	12.53342518	18.47751634	0	1.035892456	0	7.790289063	0	-3.94E-14	0
2	6565	12.53342518	18.22751634	0	-1.846705322	0	3.694706543	0	-1.944692017	0
3	6566	12.53342518	17.97751634	0	-5.16896875	0	-2.167690186	0	-2.865488281	0
4	6567	12.53342518	17.72751634	0	-9.501384766	0	-10.13987598	0	-2.320685547	0
5	6570	12.53342518	17.48720706	0	-9.392362305	0	-13.60150684	0	0.217163712	0
6	6569	12.53342518	17.25658848	0	-10.79763965	0	-13.5312998	0	3.356374756	0
7	6571	12.53342518	17.02596991	0	-13.21457031	0	-11.55270313	0	6.47939502	0
8	6568	12.53342518	16.79535134	0	-16.22949023	0	-12.32945898	0	9.146113281	0
9	6572	12.53342518	16.56473277	0	-19.31769922	0	-14.51670312	0	11.9919668	0
10	6573	12.53342518	16.3341142	0	-22.61913672	0	-15.39814844	0	15.34223926	0
11	**6605**	**12.53342518**	**16.0922748**	**0**	**-32.92040625**	**0**	**17.43665234**	**0**	**18.89578906**	**0**
12	6601	12.53342518	15.83921458	0	-56.64571094	0	24.74684766	0	14.48621777	0
13	6579	12.53342518	15.58615435	0	-92.54601562	0	16.98661133	0	8.226725586	0
14	6599	12.53342518	15.33309412	0	-125.27125	0	8.154816895	0	3.93104126	0
15	6598	12.53342518	15.0800339	0	-153.6887031	0	3.30101123	0	1.87033252	0
16	6580	12.53342518	14.82697367	0	-178.6161719	0	1.535945679	0	1.037929077	0
17	6582	12.53342518	14.57391345	0	-201.3180312	0	0.967034729	0	0.652193542	0
18	6592	12.53342518	14.32085322	0	-222.543	0	0.781547485	0	0.410426727	0
19	6577	12.53342518	14.067793	0	-242.7917656	0	0.670277039	0	0.215599335	0
20	6609	12.53342518	13.81473277	0	-262.3544688	0	0.564966736	0	0.048930092	0
21	6597	12.53342518	13.56167254	0	-281.3998438	0	0.462583893	0	-0.091089302	0

22	6608	12.53342518	13.30861232	0	-300.0207813	0	0.371224091	0	-0.205199677	0
23	6588	12.53342518	13.05555209	0	-318.265625	0	0.294892731	0	-0.296190521	0
24	6590	12.53342518	12.80249187	0	-336.15525	0	0.233346573	0	-0.367864929	0
25	6585	12.53342518	12.54943164	0	-353.6937188	0	0.184211685	0	-0.423964447	0
26	6603	12.53342518	12.29637142	0	-370.8736563	0	0.144048721	0	-0.467629883	0
27	6606	12.53342518	12.04331119	0	-387.6765312	0	0.110190178	0	-0.501131683	0
28	6593	12.53342518	11.79025097	0	-404.0770938	0	0.07963308	0	-0.526065247	0
29	6589	12.53342518	11.53719074	0	-420.0343438	0	0.052537903	0	-0.543265991	0
30	6596	12.53342518	11.28413051	0	-435.5090625	0	0.027041121	0	-0.553610046	0
31	6574	12.53342518	11.03107029	0	-450.4359375	0	0.002200997	0	-0.557501831	0
32	6583	12.53342518	10.77801006	0	-464.7527187	0	-0.018578196	0	-0.555107605	0
33	6575	12.53342518	10.52494984	0	-478.3830625	0	-0.045720387	0	-0.547455017	0
34	6578	12.53342518	10.27188961	0	-491.2034688	0	-0.090050865	0	-0.532933777	0
35	6600	12.53342518	10.01882939	0	-503.0979375	0	-0.142771271	0	-0.507194275	0
36	6586	12.53342518	9.765769161	0	-513.9017813	0	-0.21434938	0	-0.468113342	0
37	6576	12.53342518	9.512708936	0	-523.4178437	0	-0.31011084	0	-0.410918823	0
38	6591	12.53342518	9.25964871	0	-531.36825	0	-0.450220825	0	-0.329490906	0
39	6610	12.53342518	9.006588485	0	-537.3638125	0	-0.630487488	0	-0.212606689	0
40	6602	12.53342518	8.753528259	0	-540.8773125	0	-0.828582886	0	-0.050104179	0
41	6594	12.53342518	8.500468033	0	-541.1358125	0	-0.965975952	0	0.162528397	0
42	6595	12.53342518	8.247407808	0	-536.9850625	0	-0.819756348	0	0.409929718	0
43	6584	12.53342518	7.994347582	0	-526.701875	0	0.045072731	0	0.620328613	0
44	6604	12.53342518	7.741287357	0	-507.4515313	0	2.303421875	0	0.611873718	0
45	6581	12.53342518	7.488227131	0	-475.0733437	0	5.364931152	0	0.031920464	0
46	6587	12.53342518	7.235166905	0	-424.4440937	0	4.636293457	0	-1.322778931	0
47	6611	12.53342518	6.98210668	0	-355.5741875	0	-1.094327393	0	-2.493089355	0
48	6607	12.53342518	6.729046454	0	-261.8840781	0	-8.734111328	0	-2.213207275	0

Tabella 7 TABULATO DI CALCOLO MICROPALO CENTRALE FASE 4

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-5:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-5:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-5:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6612	13.63342518	18.48333077	0	-108.2389688	0	-2.700199219	0	2.28E-13	0
2	6613	13.63342518	18.24495963	0	-110.3952656	0	-3.367478516	0	0.646268127	0
3	6614	13.63342518	18.00658848	0	-112.0374453	0	-3.532659912	0	1.451596436	0
4	6615	13.63342518	17.76821734	0	-114.0730313	0	-4.512366211	0	2.296299072	0
5	6616	13.63342518	17.5298462	0	-117.162125	0	-5.921243164	0	3.374535645	0
6	6617	13.63342518	17.29147506	0	-121.0096953	0	-7.583807617	0	4.788607422	0
7	6618	13.63342518	17.05310391	0	-125.5759375	0	-9.925652344	0	6.598986816	0
8	6619	13.63342518	16.81473277	0	-130.1932578	0	-12.76483594	0	8.967594727	0
9	6620	13.63342518	16.57636163	0	-134.4240313	0	-15.55915918	0	12.01298145	0

10	6621	13.63342518	16.33799048	0	-138.8265781	0	-17.88927734	0	15.72445508	0
11	**6630**	**13.63342518**	**16.0922748**	**0**	**-144.5800781**	**0**	**16.33403027**	**0**	**19.99136133**	**0**
12	6648	13.63342518	15.83921458	0	-159.2165781	0	28.22252148	0	15.86081836	0
13	6652	13.63342518	15.58615435	0	-182.4208281	0	19.72267773	0	8.721772461	0
14	6647	13.63342518	15.33309412	0	-201.9500625	0	9.409992188	0	3.733698242	0
15	6650	13.63342518	15.0800339	0	-216.6186094	0	3.495736084	0	1.355354492	0
16	6643	13.63342518	14.82697367	0	-227.7284531	0	1.381741943	0	0.473673981	0
17	6622	13.63342518	14.57391345	0	-237.0883594	0	0.724653748	0	0.126961273	0
18	6644	13.63342518	14.32085322	0	-245.8154063	0	0.524772278	0	-0.053468567	0
19	6645	13.63342518	14.067793	0	-254.54675	0	0.408688171	0	-0.183316345	0
20	6655	13.63342518	13.81473277	0	-263.58225	0	0.31378595	0	-0.283787842	0
21	6659	13.63342518	13.56167254	0	-273.015375	0	0.24287001	0	-0.360243378	0
22	6623	13.63342518	13.30861232	0	-282.8275625	0	0.200063644	0	-0.41875293	0
23	6640	13.63342518	13.05555209	0	-292.9522813	0	0.17814537	0	-0.46642984	0
24	6649	13.63342518	12.80249187	0	-303.3132812	0	0.164682693	0	-0.50856015	0
25	6641	13.63342518	12.54943164	0	-313.843125	0	0.148864761	0	-0.547283569	0
26	6654	13.63342518	12.29637142	0	-324.4865625	0	0.125684189	0	-0.58200415	0
27	6631	13.63342518	12.04331119	0	-335.1965	0	0.096389626	0	-0.610858582	0
28	6651	13.63342518	11.79025097	0	-345.9279687	0	0.06592849	0	-0.632299744	0
29	6635	13.63342518	11.53719074	0	-356.6357812	0	0.039317223	0	-0.64603241	0
30	6646	13.63342518	11.28413051	0	-367.2760313	0	0.019233959	0	-0.653030823	0
31	6636	13.63342518	11.03107029	0	-377.8099688	0	0.005625103	0	-0.65494696	0
32	6626	13.63342518	10.77801006	0	-388.2074375	0	-0.003279156	0	-0.65341925	0
33	6639	13.63342518	10.52494984	0	-398.4484375	0	-0.009741987	0	-0.649638184	0
34	6627	13.63342518	10.27188961	0	-408.5232813	0	-0.015798285	0	-0.64422168	0
35	6658	13.63342518	10.01882939	0	-418.4300313	0	-0.023001421	0	-0.637272583	0
36	6637	13.63342518	9.765769161	0	-428.1688438	0	-0.03234684	0	-0.62850061	0
37	6628	13.63342518	9.512708936	0	-437.730375	0	-0.044084412	0	-0.617363708	0
38	6624	13.63342518	9.25964871	0	-447.0732812	0	-0.057070625	0	-0.60325647	0
39	6633	13.63342518	9.006588485	0	-456.0830625	0	-0.066927475	0	-0.585862976	0
40	6625	13.63342518	8.753528259	0	-464.4986875	0	-0.060912918	0	-0.565975037	0
41	6629	13.63342518	8.500468033	0	-471.7857188	0	-0.006263174	0	-0.547609192	0
42	6642	13.63342518	8.247407808	0	-476.933	0	0.171301102	0	-0.543073059	0
43	6653	13.63342518	7.994347582	0	-478.1185625	0	0.594411743	0	-0.583471313	0
44	6638	13.63342518	7.741287357	0	-472.3369375	0	1.363936768	0	-0.730942078	0
45	6632	13.63342518	7.488227131	0	-454.8444375	0	2.558399658	0	-1.073149048	0
46	6656	13.63342518	7.235166905	0	-418.9984687	0	3.360153564	0	-1.717627075	0
47	6657	13.63342518	6.98210668	0	-355.448125	0	-2.387349365	0	-2.56499707	0
48	6634	13.63342518	6.729046454	0	-261.1219375	0	-7.725241699	0	-1.957902588	0

Tabella 8 TABULATO DI CALCOLO MICROPALO POSTERIORE FASE 4

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-5:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-5:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-5:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-5:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6664	14.73342518	18.48333077	0	-11.07047949	0	-8.770549805	0	5.29E-13	0
2	6665	14.73342518	18.24495963	0	-12.83273828	0	-7.688817383	0	2.093264404	0
3	6666	14.73342518	18.00658848	0	-13.78525488	0	-5.828758789	0	3.928675293	0
4	6660	14.73342518	17.76821734	0	-15.46891504	0	-4.620597168	0	5.32070166	0
5	6667	14.73342518	17.5298462	0	-18.07016992	0	-4.04604248	0	6.424737305	0
6	6663	14.73342518	17.29147506	0	-21.37327734	0	-4.342339355	0	7.39181543	0
7	6668	14.73342518	17.05310391	0	-25.52517578	0	-6.177385742	0	8.429522461	0
8	6661	14.73342518	16.81473277	0	-29.73314648	0	-9.539966797	0	9.904651367	0
9	6662	14.73342518	16.57636163	0	-34.13030078	0	-14.28114453	0	12.18132324	0
10	6669	14.73342518	16.33799048	0	-40.22411719	0	-19.54675195	0	15.5881543	0
11	**6680**	**14.73342518**	**16.0922748**	**0**	**-52.44045703**	**0**	**11.36441309**	**0**	**20.2501543**	**0**
12	6675	14.73342518	15.83921458	0	-61.25409766	0	26.55850781	0	17.37722461	0
13	6707	14.73342518	15.58615435	0	-74.81803906	0	22.57342578	0	10.65927441	0
14	6676	14.73342518	15.33309412	0	-96.77459375	0	14.02362598	0	4.949788574	0
15	6694	14.73342518	15.0800339	0	-122.5895	0	6.748408203	0	1.403918091	0
16	6693	14.73342518	14.82697367	0	-149.7567031	0	2.448516846	0	-0.300884399	0
17	6678	14.73342518	14.57391345	0	-177.3958906	0	0.414802643	0	-0.91755542	0
18	6687	14.73342518	14.32085322	0	-205.458875	0	-0.300771973	0	-1.01957428	0
19	6695	14.73342518	14.067793	0	-233.9822969	0	-0.43345224	0	-0.940509644	0
20	6697	14.73342518	13.81473277	0	-262.9692187	0	-0.385008514	0	-0.827868896	0
21	6684	14.73342518	13.56167254	0	-292.312875	0	-0.320720337	0	-0.727487366	0
22	6699	14.73342518	13.30861232	0	-321.8549688	0	-0.226545486	0	-0.643374573	0
23	6690	14.73342518	13.05555209	0	-351.55525	0	-0.05758461	0	-0.58309375	0
24	6671	14.73342518	12.80249187	0	-381.2456563	0	0.335167114	0	-0.565570129	0
25	6682	14.73342518	12.54943164	0	-409.97575	0	0.493346985	0	-0.647436401	0
26	6683	14.73342518	12.29637142	0	-436.491625	0	0.157611145	0	-0.769331665	0
27	6702	14.73342518	12.04331119	0	-461.2940938	0	-0.027865854	0	-0.806265625	0
28	6670	14.73342518	11.79025097	0	-484.621625	0	-0.067828499	0	-0.796262634	0
29	6706	14.73342518	11.53719074	0	-506.6056875	0	-0.057255409	0	-0.776146729	0
30	6688	14.73342518	11.28413051	0	-527.2786875	0	-0.03372403	0	-0.758706482	0
31	6703	14.73342518	11.03107029	0	-546.6355	0	-0.009673347	0	-0.747221069	0
32	6672	14.73342518	10.77801006	0	-564.633	0	0.013269172	0	-0.741821899	0
33	6700	14.73342518	10.52494984	0	-581.215125	0	0.039466137	0	-0.742228577	0
34	6701	14.73342518	10.27188961	0	-596.2861875	0	0.076153374	0	-0.749264648	0
35	6685	14.73342518	10.01882939	0	-609.735875	0	0.122831284	0	-0.765584839	0
36	6679	14.73342518	9.765769161	0	-621.413875	0	0.188214157	0	-0.793717346	0
37	6677	14.73342518	9.512708936	0	-631.1204375	0	0.279480011	0	-0.838395691	0
38	6704	14.73342518	9.25964871	0	-638.58625	0	0.404147003	0	-0.906169739	0

39	6686	14.73342518	9.006588485	0	-643.4230625	0	0.563406555	0	-1.005492065	0
40	6681	14.73342518	8.753528259	0	-645.0899375	0	0.755327454	0	-1.145116577	0
41	6692	14.73342518	8.500468033	0	-642.7815625	0	0.974121643	0	-1.333308716	0
42	6673	14.73342518	8.247407808	0	-635.29775	0	1.218794922	0	-1.576869019	0
43	6698	14.73342518	7.994347582	0	-620.824125	0	1.503370239	0	-1.882346313	0
44	6691	14.73342518	7.741287357	0	-596.488	0	1.915589233	0	-2.259838379	0
45	6696	14.73342518	7.488227131	0	-557.82075	0	2.203310059	0	-2.741646484	0
46	6689	14.73342518	7.235166905	0	-497.56775	0	-1.07153064	0	-3.296265381	0
47	6705	14.73342518	6.98210668	0	-412.370875	0	-7.567191406	0	-3.022152344	0
48	6674	14.73342518	6.729046454	0	-296.625875	0	-4.351908203	0	-1.104245972	0

6.3 Combinazione ECCEZIONALE

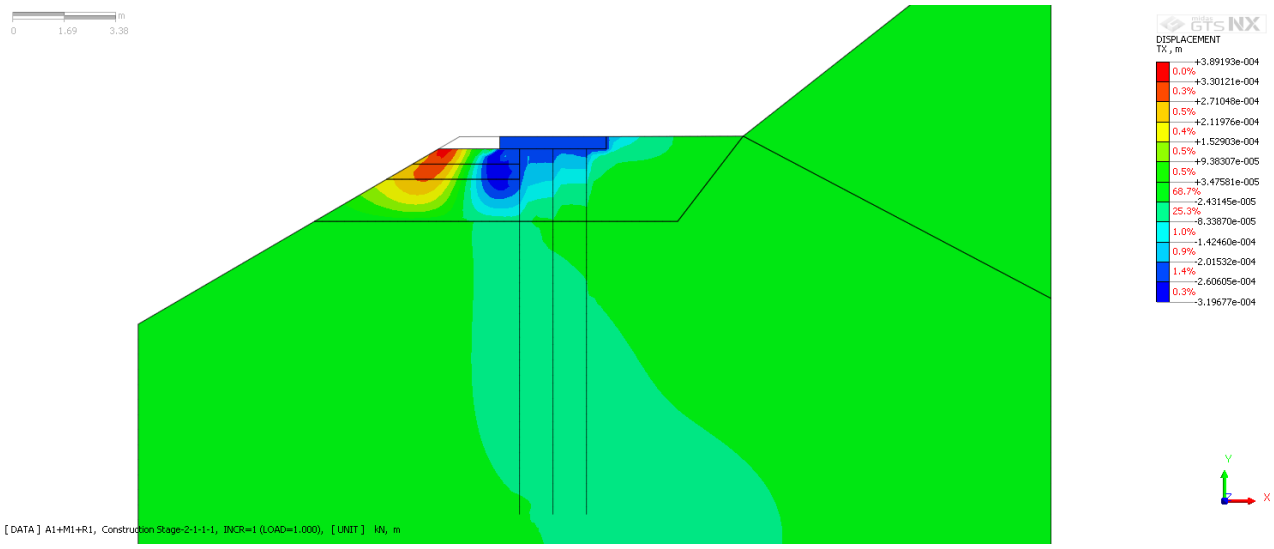


Figura 17 Deformazione orizzontale fase 1. H terreno non collaborante 0.5 m.

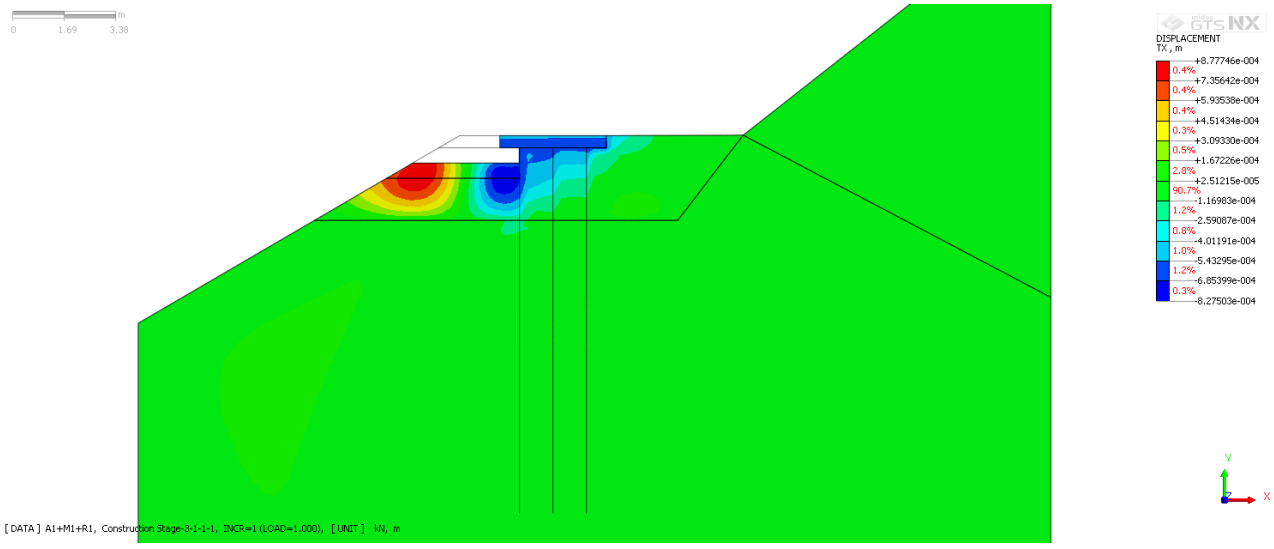


Figura 18 Deformazione orizzontale fase 2. H terreno non collaborante 1.0 m.

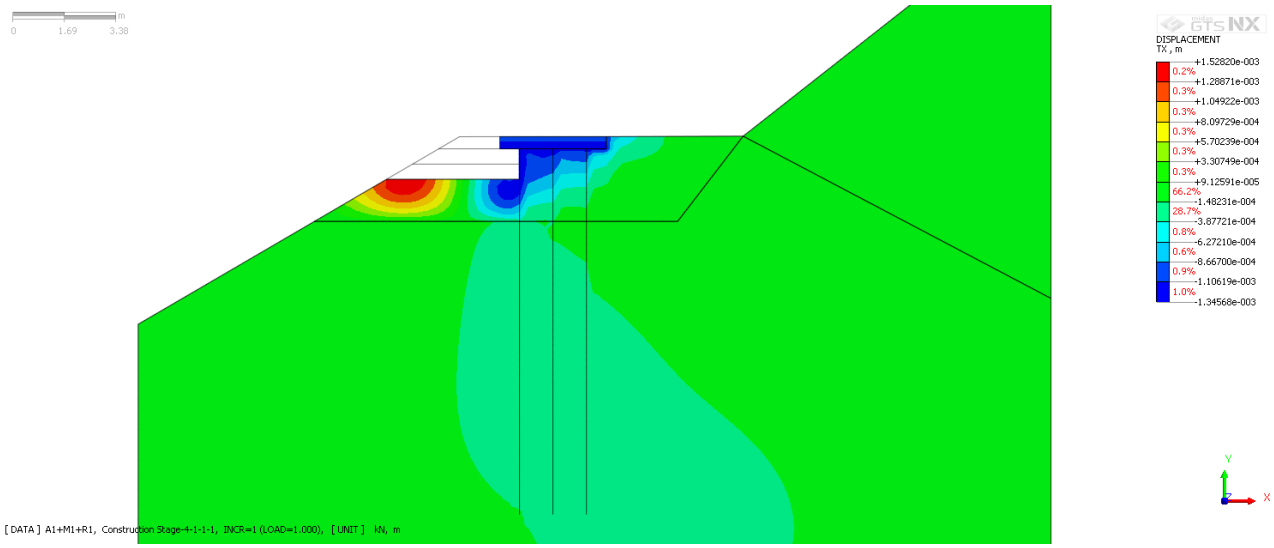


Figura 19 Deformazione orizzontale fase 3. H terreno non collaborante 1.5 m.

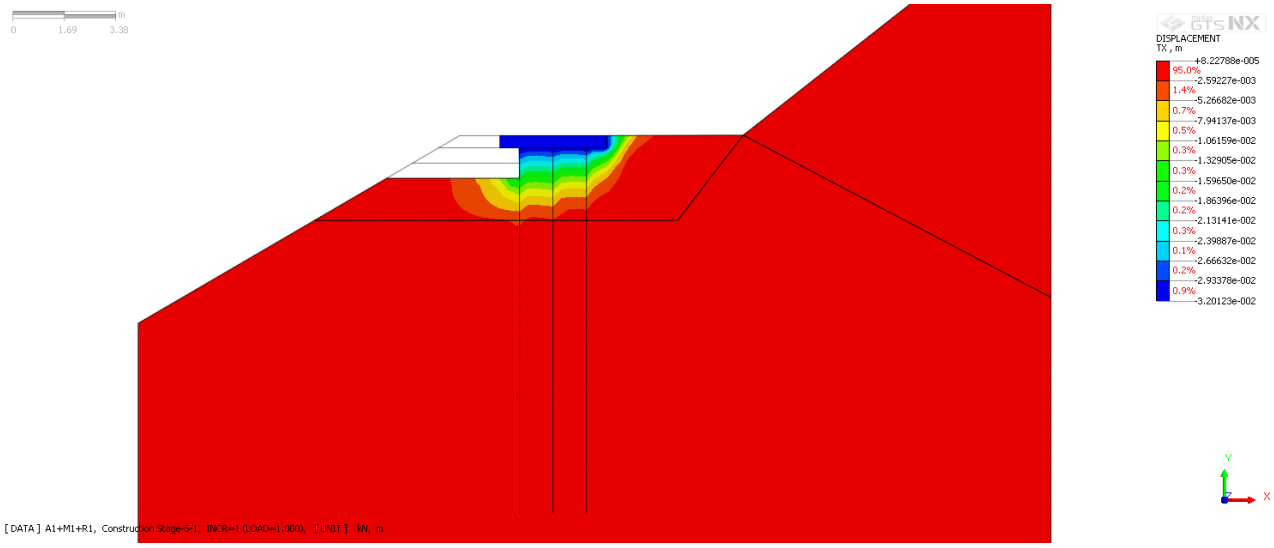


Figura 20 Deformazione orizzontale fase 4. H terreno non collaborante 1.5 m. APPLICAZIONE DELL'AZIONE DEL SICURVIA.

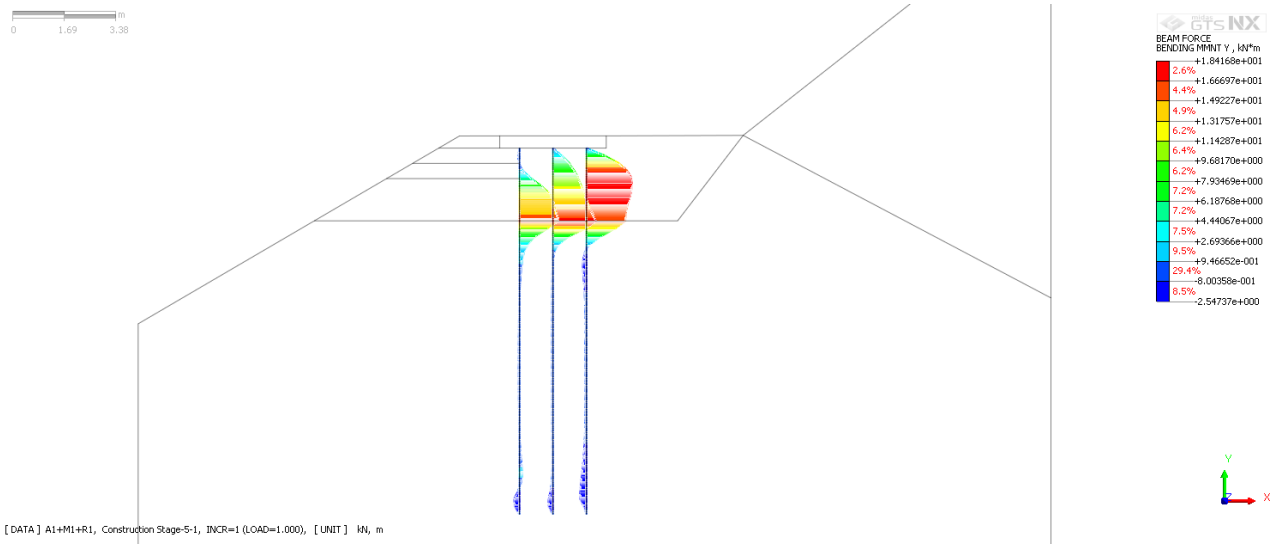


Figura 21 Diagramma del momento flettente dei micropali FASE 4.

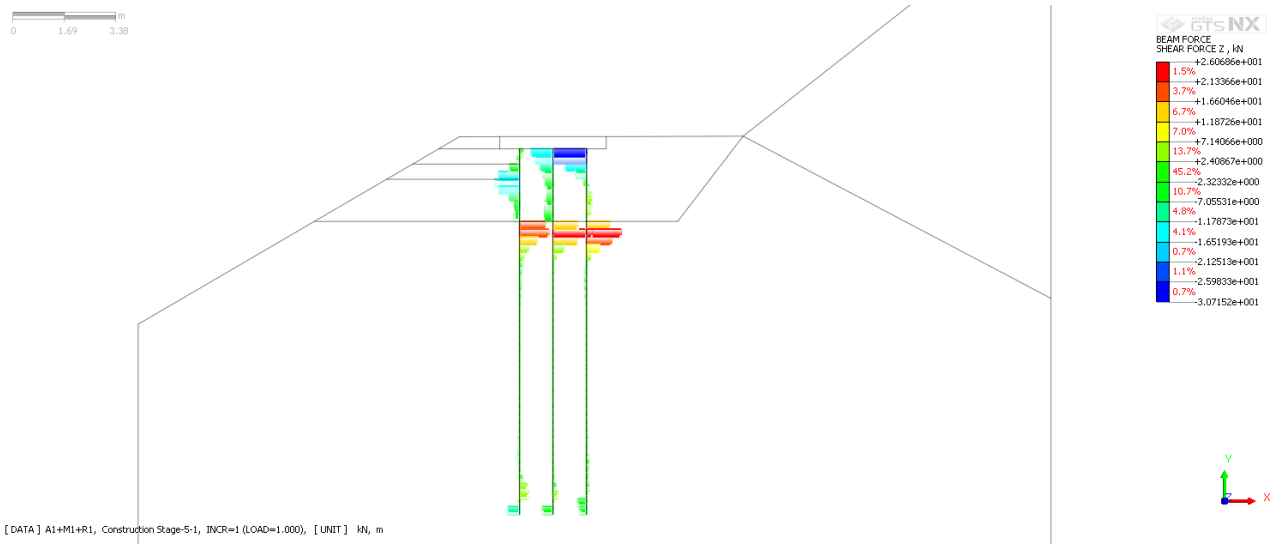


Figura 22 Diagramma del taglio dei micropali FASE 4.

Tabella 9 TABULATO DI CALCOLO MICROPALO ANTERIORE FASE 4

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6564	12.53342518	18.47751634	0	12.83425391	0	2.277536133	0	-1.41E-13	0
2	6565	12.53342518	18.22751634	0	9.882623047	0	-1.343530273	0	-0.569384033	0
3	6566	12.53342518	17.97751634	0	6.709144531	0	-6.652325195	0	-0.233501465	0
4	6567	12.53342518	17.72751634	0	2.373985352	0	-14.15328125	0	1.429579834	0
5	6570	12.53342518	17.48720706	0	2.935813721	0	-16.38408789	0	4.967900391	0
6	6569	12.53342518	17.25658848	0	2.449008057	0	-13.54074512	0	8.746375	0
7	6571	12.53342518	17.02596991	0	0.609483459	0	-6.59047998	0	11.86912207	0
8	6568	12.53342518	16.79535134	0	-2.7930354	0	-3.165674805	0	13.38900977	0
9	6572	12.53342518	16.56473277	0	-6.96646582	0	-3.348356445	0	14.11907324	0
10	6573	12.53342518	16.3341142	0	-11.48087695	0	-3.681849609	0	14.89126563	0
11	**6605**	**12.53342518**	**16.0922748**	**0**	**-27.89439063**	**0**	**17.47083984**	**0**	**15.74036914**	**0**
12	6601	12.53342518	15.83921458	0	-54.57582422	0	19.60840234	0	11.31919434	0
13	6579	12.53342518	15.58615435	0	-90.88560156	0	11.8840166	0	6.357087402	0
14	6599	12.53342518	15.33309412	0	-124.290125	0	5.807974609	0	3.349715576	0
15	6598	12.53342518	15.0800339	0	-153.588	0	2.784750732	0	1.879948242	0
16	6580	12.53342518	14.82697367	0	-179.9149375	0	1.614910522	0	1.175238525	0
17	6582	12.53342518	14.57391345	0	-204.4343125	0	1.136153687	0	0.766568909	0
18	6592	12.53342518	14.32085322	0	-227.8302344	0	0.874470093	0	0.479053619	0
19	6577	12.53342518	14.067793	0	-250.5195781	0	0.674760803	0	0.25776001	0
20	6609	12.53342518	13.81473277	0	-272.7190938	0	0.508447052	0	0.08700489	0
21	6597	12.53342518	13.56167254	0	-294.5305937	0	0.373907898	0	-0.041662834	0
22	6608	12.53342518	13.30861232	0	-315.9884063	0	0.270055939	0	-0.136284058	0

23	6588	12.53342518	13.05555209	0	-337.0900625	0	0.192332642	0	-0.204624466	0
24	6590	12.53342518	12.80249187	0	-357.812625	0	0.134837143	0	-0.253296204	0
25	6585	12.53342518	12.54943164	0	-378.1221562	0	0.092211388	0	-0.287418121	0
26	6603	12.53342518	12.29637142	0	-397.9779062	0	0.059682888	0	-0.310753174	0
27	6606	12.53342518	12.04331119	0	-417.3318125	0	0.034222324	0	-0.325856537	0
28	6593	12.53342518	11.79025097	0	-436.1334375	0	0.01257031	0	-0.334516846	0
29	6589	12.53342518	11.53719074	0	-454.319625	0	-0.005573902	0	-0.337697876	0
30	6596	12.53342518	11.28413051	0	-471.8334063	0	-0.023069914	0	-0.336287354	0
31	6574	12.53342518	11.03107029	0	-488.5929688	0	-0.041474316	0	-0.33044928	0
32	6583	12.53342518	10.77801006	0	-504.5263438	0	-0.056359772	0	-0.319953766	0
33	6575	12.53342518	10.52494984	0	-519.5481563	0	-0.077306442	0	-0.305691345	0
34	6578	12.53342518	10.27188961	0	-533.5263125	0	-0.11755088	0	-0.286128174	0
35	6600	12.53342518	10.01882939	0	-546.3424375	0	-0.167234695	0	-0.256380707	0
36	6586	12.53342518	9.765769161	0	-557.8279375	0	-0.2373069	0	-0.214060272	0
37	6576	12.53342518	9.512708936	0	-567.783875	0	-0.333050507	0	-0.154007324	0
38	6591	12.53342518	9.25964871	0	-575.929125	0	-0.476375488	0	-0.069725494	0
39	6610	12.53342518	9.006588485	0	-581.87425	0	-0.665056396	0	0.050826199	0
40	6602	12.53342518	8.753528259	0	-585.0913125	0	-0.882168213	0	0.219125519	0
41	6594	12.53342518	8.500468033	0	-584.8025	0	-1.06242334	0	0.442367218	0
42	6595	12.53342518	8.247407808	0	-579.852125	0	-1.008446228	0	0.711224304	0
43	6584	12.53342518	7.994347582	0	-568.497625	0	-0.315897491	0	0.966421936	0
44	6604	12.53342518	7.741287357	0	-547.983125	0	1.709743774	0	1.046363037	0
45	6581	12.53342518	7.488227131	0	-513.9529062	0	5.08657959	0	0.613694885	0
46	6587	12.53342518	7.235166905	0	-460.3554062	0	5.705097168	0	-0.673516174	0
47	6611	12.53342518	6.98210668	0	-384.1959063	0	-0.543058533	0	-2.117249268	0
48	6607	12.53342518	6.729046454	0	-281.546	0	-7.823524414	0	-1.979822876	0

Tabella 10 TABULATO DI CALCOLO MICROPALO CENTRALE FASE 4

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6612	13.63342518	18.48333077	0	-101.508625	0	-14.92268262	0	7.80E-14	0
2	6613	13.63342518	18.24495963	0	-102.5723359	0	-12.06003711	0	3.557136963	0
3	6614	13.63342518	18.00658848	0	-102.8610937	0	-8.632474609	0	6.431901855	0
4	6615	13.63342518	17.76821734	0	-103.9745	0	-6.529679687	0	8.489634766	0
5	6616	13.63342518	17.5298462	0	-106.8934609	0	-5.174800293	0	10.04612207	0
6	6617	13.63342518	17.29147506	0	-111.1001328	0	-4.440894043	0	11.27964453	0
7	6618	13.63342518	17.05310391	0	-116.0905625	0	-4.47377002	0	12.33822559	0
8	6619	13.63342518	16.81473277	0	-121.3449297	0	-4.85425	0	13.40464355	0
9	6620	13.63342518	16.57636163	0	-126.8482188	0	-5.416370117	0	14.56175684	0
10	6621	13.63342518	16.33799048	0	-132.5533125	0	-6.103614258	0	15.85286328	0

11	**6630**	**13.63342518**	**16.0922748**	**0**	**-145.3918281**	**0**	**16.49966992**	**0**	**17.30778906**	**0**
12	6648	13.63342518	15.83921458	0	-164.6109844	0	26.06860156	0	13.13237793	0
13	6652	13.63342518	15.58615435	0	-183.8870156	0	16.282875	0	6.535452148	0
14	6647	13.63342518	15.33309412	0	-199.0181719	0	7.053521973	0	2.414904297	0
15	6650	13.63342518	15.0800339	0	-210.2993125	0	2.520743164	0	0.629938416	0
16	6643	13.63342518	14.82697367	0	-219.7618281	0	0.831701294	0	-0.007961417	0
17	6622	13.63342518	14.57391345	0	-228.7599063	0	0.306018219	0	-0.218431931	0
18	6644	13.63342518	14.32085322	0	-238.0882344	0	0.153380981	0	-0.295872955	0
19	6645	13.63342518	14.067793	0	-248.0728125	0	0.092492676	0	-0.334687592	0
20	6655	13.63342518	13.81473277	0	-258.7780469	0	0.059357533	0	-0.358093811	0
21	6659	13.63342518	13.56167254	0	-270.1297813	0	0.042982174	0	-0.373114838	0
22	6623	13.63342518	13.30861232	0	-282.0002187	0	0.037337868	0	-0.383991913	0
23	6640	13.63342518	13.05555209	0	-294.2540313	0	0.034261127	0	-0.393440643	0
24	6649	13.63342518	12.80249187	0	-306.768375	0	0.027535732	0	-0.402110779	0
25	6641	13.63342518	12.54943164	0	-319.436625	0	0.015606369	0	-0.409078979	0
26	6654	13.63342518	12.29637142	0	-332.165125	0	0.000889116	0	-0.41302832	0
27	6631	13.63342518	12.04331119	0	-344.8700313	0	-0.012958328	0	-0.413253326	0
28	6651	13.63342518	11.79025097	0	-357.4764063	0	-0.023387999	0	-0.409974091	0
29	6635	13.63342518	11.53719074	0	-369.9195	0	-0.029774387	0	-0.404055511	0
30	6646	13.63342518	11.28413051	0	-382.146375	0	-0.032899334	0	-0.396520813	0
31	6636	13.63342518	11.03107029	0	-394.116625	0	-0.034062195	0	-0.388195282	0
32	6626	13.63342518	10.77801006	0	-405.8024688	0	-0.034507355	0	-0.3795755	0
33	6639	13.63342518	10.52494984	0	-417.1880938	0	-0.035223019	0	-0.370843079	0
34	6627	13.63342518	10.27188961	0	-428.2686562	0	-0.036934189	0	-0.361929535	0
35	6658	13.63342518	10.01882939	0	-439.0475625	0	-0.040128407	0	-0.352582947	0
36	6637	13.63342518	9.765769161	0	-449.5312187	0	-0.045016525	0	-0.34242804	0
37	6628	13.63342518	9.512708936	0	-459.7180937	0	-0.051392349	0	-0.331036163	0
38	6624	13.63342518	9.25964871	0	-469.5774063	0	-0.058358566	0	-0.318030792	0
39	6633	13.63342518	9.006588485	0	-479.009625	0	-0.063630367	0	-0.303262573	0
40	6625	13.63342518	8.753528259	0	-487.7748125	0	-0.061276936	0	-0.287160248	0
41	6629	13.63342518	8.500468033	0	-495.3703438	0	-0.034256428	0	-0.271653503	0
42	6642	13.63342518	8.247407808	0	-500.82125	0	0.062109917	0	-0.262984558	0
43	6653	13.63342518	7.994347582	0	-502.3731563	0	0.327802734	0	-0.278702118	0
44	6638	13.63342518	7.741287357	0	-496.961375	0	0.892563721	0	-0.361655945	0
45	6632	13.63342518	7.488227131	0	-479.8466875	0	1.748068237	0	-0.58752832	0
46	6656	13.63342518	7.235166905	0	-443.7094062	0	2.9305625	0	-1.029894897	0
47	6657	13.63342518	6.98210668	0	-378.9135	0	0.011035531	0	-1.771503662	0
48	6634	13.63342518	6.729046454	0	-275.8884688	0	-7.011359863	0	-1.774296265	0

Tabella 11 TABULATO DI CALCOLO MICROPALO POSTERIORE FASE 4

No	Element	X (m)	Y (m)	Z (m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) AXIAL FORCE Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) SHEAR FORCE Y Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) SHEAR FORCE Z Node 1 (kN)	Construction Stage-5-1:INCR=1 (LOAD=1.000) TORQUE Node 1 (kN*m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) BENDING MOMENT Y Node 1 (kN*m)	Construction Stage-5-1:INCR=1 (LOAD=1.000) BENDING MOMENT Z Node 1 (kN*m)
1	6664	14.73342518	18.48333077	0	29.56570508	0	-30.71524023	0	2.44E-13	0
2	6665	14.73342518	18.24495963	0	29.5769043	0	-23.01331055	0	7.321626953	0
3	6666	14.73342518	18.00658848	0	31.66177344	0	-14.36455469	0	12.80733594	0
4	6660	14.73342518	17.76821734	0	31.60996875	0	-7.35810791	0	16.23143164	0
5	6667	14.73342518	17.5298462	0	31.04363086	0	-1.809619751	0	17.98539258	0
6	**6663**	**14.73342518**	**17.29147506**	**0**	**28.27619336**	**0**	**1.595084473**	**0**	**18.41675391**	**0**
7	6668	14.73342518	17.05310391	0	24.51394531	0	3.218631104	0	18.03653125	0
8	6661	14.73342518	16.81473277	0	20.14732031	0	3.614749756	0	17.26930273	0
9	6662	14.73342518	16.57636163	0	14.8095	0	2.706459473	0	16.40765039	0
10	6669	14.73342518	16.33799048	0	7.697961426	0	0.16583728	0	15.76250879	0
11	6680	14.73342518	16.0922748	0	-11.16600195	0	15.83750488	0	15.72297754	0
12	6675	14.73342518	15.83921458	0	-27.76960547	0	23.10838281	0	11.71513477	0
13	6707	14.73342518	15.58615435	0	-53.66405078	0	16.77664844	0	5.867322754	0
14	6676	14.73342518	15.33309412	0	-84.55975	0	8.686724609	0	1.621820557	0
15	6694	14.73342518	15.0800339	0	-116.5404922	0	3.093105469	0	-0.576443909	0
16	6693	14.73342518	14.82697367	0	-148.4464844	0	0.331023621	0	-1.359185791	0
17	6678	14.73342518	14.57391345	0	-180.229	0	-0.691218201	0	-1.442954712	0
18	6687	14.73342518	14.32085322	0	-212.0239219	0	-0.900331909	0	-1.268034912	0
19	6695	14.73342518	14.067793	0	-243.9438125	0	-0.825381653	0	-1.040196655	0
20	6697	14.73342518	13.81473277	0	-276.0230937	0	-0.684843811	0	-0.831325439	0
21	6684	14.73342518	13.56167254	0	-308.2131563	0	-0.482836609	0	-0.658018738	0
22	6699	14.73342518	13.30861232	0	-340.4509063	0	-0.070366776	0	-0.53583197	0
23	6690	14.73342518	13.05555209	0	-372.1041563	0	0.233032318	0	-0.518024963	0
24	6671	14.73342518	12.80249187	0	-401.8749375	0	0.013954879	0	-0.576996155	0
25	6682	14.73342518	12.54943164	0	-430.1434063	0	-0.11939489	0	-0.580527588	0
26	6683	14.73342518	12.29637142	0	-457.06575	0	-0.138112671	0	-0.550313477	0
27	6702	14.73342518	12.04331119	0	-482.7278437	0	-0.119181274	0	-0.515362671	0
28	6670	14.73342518	11.79025097	0	-507.1366875	0	-0.091329948	0	-0.485202637	0
29	6706	14.73342518	11.53719074	0	-530.272375	0	-0.065975647	0	-0.462090637	0
30	6688	14.73342518	11.28413051	0	-552.09525	0	-0.045161247	0	-0.445394836	0
31	6703	14.73342518	11.03107029	0	-572.5541875	0	-0.025631474	0	-0.433966339	0
32	6672	14.73342518	10.77801006	0	-591.5775625	0	-0.005274042	0	-0.427480011	0
33	6700	14.73342518	10.52494984	0	-609.092875	0	0.019922995	0	-0.426145355	0
34	6701	14.73342518	10.27188961	0	-624.9901875	0	0.057096775	0	-0.431187073	0
35	6685	14.73342518	10.01882939	0	-639.151125	0	0.10496003	0	-0.445636017	0
36	6679	14.73342518	9.765769161	0	-651.4196875	0	0.172216721	0	-0.472197205	0
37	6677	14.73342518	9.512708936	0	-661.5926875	0	0.266436279	0	-0.515778442	0
38	6704	14.73342518	9.25964871	0	-669.4003125	0	0.396364899	0	-0.58320282	0

39	6686	14.73342518	9.006588485	0	-674.454875	0	0.564234619	0	-0.683507019	0
40	6681	14.73342518	8.753528259	0	-676.221875	0	0.765478577	0	-0.826292358	0
41	6692	14.73342518	8.500468033	0	-673.906125	0	0.982046509	0	-1.020004578	0
42	6673	14.73342518	8.247407808	0	-666.3318125	0	1.173411377	0	-1.268521484	0
43	6698	14.73342518	7.994347582	0	-651.7130625	0	1.287882568	0	-1.56546521	0
44	6691	14.73342518	7.741287357	0	-627.3445625	0	1.259304443	0	-1.891377075	0
45	6696	14.73342518	7.488227131	0	-588.7720625	0	1.232870483	0	-2.210056885	0
46	6689	14.73342518	7.235166905	0	-529.092625	0	0.100059395	0	-2.522047363	0
47	6705	14.73342518	6.98210668	0	-438.7627187	0	-5.821075195	0	-2.547368408	0
48	6674	14.73342518	6.729046454	0	-313.1080938	0	-4.245178711	0	-1.074285889	0

7 Verifica della sezione del micropalo

Tabella 12Azioni massime agenti sul micropalo anteriore

MICROPALO ANTERIORE			
ID	Momento flettente kNm	Taglio kN	Sforzo normale kN
A1+M1+R1	4.50	7.70	-64.00
A1+M1+SISMA	18.90	17.50	-33.00
ECCEZIONALE	15.75	17.50	-28.00

Tabella 13Azioni massime agenti sul micropalo centrale

MICROPALO CENTRALE			
ID	Momento flettente kNm	Taglio kN	Sforzo normale kN
A1+M1+R1	7.70	10.10	-243
A1+M1+SISMA	20.00	16.40	-144.00
ECCEZIONALE	17.30	16.50	-145

Tabella 14Azioni massime agenti sul micropalo posteriore

MICROPALO POSTERIORE			
ID	Momento flettente kNm	Taglio kN	Sforzo normale kN
A1+M1+R1	10.25	2.60	-129.00
A1+M1+SISMA	**20.50**	**11.50**	**-52.50**
ECCEZIONALE	18.40	1.60	28.30

Per le verifiche della sezione del micropalo, a favore di sicurezza, si è presa come resistente la sola sezione del profilo tubolare in acciaio. In particolare, di seguito si riporta il calcolo del modulo di resistenza della sezione tubolare 139.7/10:

$$W = \frac{\pi \cdot (D^4 - d^4)}{32 \cdot D}$$

Dove D è il diametro esterno del profilo in acciaio, d è il diametro interno del profilo in acciaio e W il modulo di resistenza della sezione in mm^2.

Pertanto si ottiene:

$$W = \frac{\pi \cdot (139.7^4 - 129.7^4)}{32 \cdot 139.7} = 68'796\ mm^2$$

Definizione del momento resistente della sezione:

$$M = f_y \cdot \mathrm{W}$$

Dove f_y è la tensione di snervamento dell'acciaio S355.

Pertanto, si ottiene che il momento resistente ultimo sarà pari a:

$$M = \frac{f_y \cdot \mathrm{W}}{1.15} = \frac{355 \cdot 68'796}{1.15} = 21.23\ kNm$$

Essendo il momento sollecitante nella sezione maggiormente caricata pari a Md = 20,50 kNm, si ottiene:

$$FS = \frac{M}{Md} = \frac{21.23}{20.50} = 1.04\ (Verifica\ soddisfatta)$$