

TABLE: Joint Displacements									
Joint	OutputCase	CaseType	StepType	U1	U2	U3	R1	R2	R3
Text	Text	Text	Text	m	m	m	Radians	Radians	Radians
140	Tren A4	LinDirHis	Max	0	0	5.328E-12	0.000005749	0.000027	0
140	Tren A4	LinDirHis	Min	0	0	-0.000308	-0.000003154	-9.037E-14	0
229	Tren A4	LinDirHis	Max	0	0	1.183E-12	2.194E-08	1.246E-12	0
229	Tren A4	LinDirHis	Min	0	0	-0.000277	-0.000073	-0.000028	0
230	Tren A4	LinDirHis	Max	0	0	3.82E-12	3.143E-07	0.000000313	0
230	Tren A4	LinDirHis	Min	0	0	-0.00029	-0.000035	-0.000015	0
231	Tren A4	LinDirHis	Max	0	0	3.817E-13	3.506E-13	0.000023	0
231	Tren A4	LinDirHis	Min	0	0	-0.000233	-0.000097	-0.000013	0
232	Tren A4	LinDirHis	Max	0	0	0.000002783	1.305E-13	0.000056	0
232	Tren A4	LinDirHis	Min	0	0	-0.000396	-0.000113	-0.000005466	0
233	Tren A4	LinDirHis	Max	0	0	0.000004928	1.437E-14	0.000024	0
233	Tren A4	LinDirHis	Min	0	0	-0.000524	-0.000148	-0.000011	0
234	Tren A4	LinDirHis	Max	0	0	0.000001469	3.575E-07	0.000056	0
234	Tren A4	LinDirHis	Min	0	0	-0.000587	-0.000194	-0.000014	0
235	Tren A4	LinDirHis	Max	0	0	0.00000104	2.247E-07	0.000074	0
235	Tren A4	LinDirHis	Min	0	0	-0.000823	-0.000198	-0.000009872	0
236	Tren A4	LinDirHis	Max	0	0	0.000002773	8.868E-08	0.000059	0
236	Tren A4	LinDirHis	Min	0	0	-0.001011	-0.000226	-0.000015	0
237	Tren A4	LinDirHis	Max	0	0	0.000001499	3.463E-07	0.000081	0
237	Tren A4	LinDirHis	Min	0	0	-0.001178	-0.000252	-0.000018	0
238	Tren A4	LinDirHis	Max	0	0	0.000001005	2.761E-07	0.000085	0
238	Tren A4	LinDirHis	Min	0	0	-0.001437	-0.000249	-0.000017	0
239	Tren A4	LinDirHis	Max	0	0	0.000002426	2.129E-07	0.000079	0
239	Tren A4	LinDirHis	Min	0	0	-0.001649	-0.000267	-0.000025	0
240	Tren A4	LinDirHis	Max	0	0	0.000002252	4.129E-07	0.000093	0
240	Tren A4	LinDirHis	Min	0	0	-0.001872	-0.000277	-0.00003	0
241	Tren A4	LinDirHis	Max	0	0	0.00000216	3.898E-07	0.000091	0
241	Tren A4	LinDirHis	Min	0	0	-0.002135	-0.00027	-0.000032	0
242	Tren A4	LinDirHis	Max	0	0	0.000003356	3.437E-07	0.000093	0
242	Tren A4	LinDirHis	Min	0	0	-0.002367	-0.000274	-0.000036	0
244	Tren A4	LinDirHis	Max	0	0	0.000004331	4.491E-07	0.0001	0
244	Tren A4	LinDirHis	Min	0	0	-0.002862	-0.000258	-0.000041	0
245	Tren A4	LinDirHis	Max	0	0	0.000005444	4.191E-07	0.000099	0
245	Tren A4	LinDirHis	Min	0	0	-0.003083	-0.000251	-0.00005	0
246	Tren A4	LinDirHis	Max	0	0	0.000005864	4.749E-07	0.000102	0
246	Tren A4	LinDirHis	Min	0	0	-0.003306	-0.000236	-0.000053	0
247	Tren A4	LinDirHis	Max	0	0	0.000006678	4.455E-07	0.000099	0
247	Tren A4	LinDirHis	Min	0	0	-0.003524	-0.000218	-0.000061	0
248	Tren A4	LinDirHis	Max	0	0	0.00000781	4.029E-07	0.000098	0
248	Tren A4	LinDirHis	Min	0	0	-0.003724	-0.000203	-0.00007	0
249	Tren A4	LinDirHis	Max	0	0	0.000008628	0.000000432	0.000096	0
249	Tren A4	LinDirHis	Min	0	0	-0.003907	-0.00018	-0.000075	0
250	Tren A4	LinDirHis	Max	0	0	0.000009683	4.086E-07	0.000095	0
250	Tren A4	LinDirHis	Min	0	0	-0.004075	-0.000157	-0.000079	0
251	Tren A4	LinDirHis	Max	0	0	0.000012	4.288E-07	0.000092	0
251	Tren A4	LinDirHis	Min	0	0	-0.004223	-0.000134	-0.000084	0
252	Tren A4	LinDirHis	Max	0	0	0.000014	4.354E-07	0.000084	0

252	Tren A4	LinDirHis	Min	0	0	-0.00434	-0.000107	-0.000093	0
253	Tren A4	LinDirHis	Max	0	0	0.000015	3.732E-07	0.000081	0
253	Tren A4	LinDirHis	Min	0	0	-0.004429	-0.000078	-0.000097	0
254	Tren A4	LinDirHis	Max	0	0	0.000016	3.172E-07	0.000075	0
254	Tren A4	LinDirHis	Min	0	0	-0.004496	-0.000052	-0.000101	0
255	Tren A4	LinDirHis	Max	0	0	0.000016	2.595E-07	0.000065	0
255	Tren A4	LinDirHis	Min	0	0	-0.004531	-0.000026	-0.000107	0
256	Tren A4	LinDirHis	Max	0	0	0.000017	0.000018	0.000059	0
256	Tren A4	LinDirHis	Min	0	0	-0.00453	-0.000009518	-0.000109	0
257	Tren A4	LinDirHis	Max	0	0	0.000017	0.000046	0.000053	0
257	Tren A4	LinDirHis	Min	0	0	-0.004507	-0.000005486	-0.00011	0
258	Tren A4	LinDirHis	Max	0	0	0.000017	0.000075	0.000046	0
258	Tren A4	LinDirHis	Min	0	0	-0.004458	-0.00000336	-0.000111	0
259	Tren A4	LinDirHis	Max	0	0	0.000018	0.000103	0.000034	0
259	Tren A4	LinDirHis	Min	0	0	-0.004369	-0.000002068	-0.000116	0
260	Tren A4	LinDirHis	Max	0	0	0.000018	0.000131	0.000025	0
260	Tren A4	LinDirHis	Min	0	0	-0.00424	-0.000001514	-0.000118	0
261	Tren A4	LinDirHis	Max	0	0	0.000017	0.000158	0.000018	0
261	Tren A4	LinDirHis	Min	0	0	-0.004084	-0.00000117	-0.000116	0
262	Tren A4	LinDirHis	Max	0	0	0.000016	0.000184	0.000005617	0
262	Tren A4	LinDirHis	Min	0	0	-0.003899	-0.000001165	-0.000116	0
263	Tren A4	LinDirHis	Max	0	0	0.000015	0.000206	0.000001899	0
263	Tren A4	LinDirHis	Min	0	0	-0.003675	-0.00000118	-0.000115	0
264	Tren A4	LinDirHis	Max	0	0	0.000014	0.000226	0.000001746	0
264	Tren A4	LinDirHis	Min	0	0	-0.003436	-0.000001137	-0.000113	0
265	Tren A4	LinDirHis	Max	0	0	0.000012	0.000246	0.000001623	0
265	Tren A4	LinDirHis	Min	0	0	-0.003177	-0.000001173	-0.000112	0
266	Tren A4	LinDirHis	Max	0	0	0.00001	0.000257	0.000001436	0
266	Tren A4	LinDirHis	Min	0	0	-0.002905	-0.000001123	-0.00011	0
267	Tren A4	LinDirHis	Max	0	0	0.000009317	0.000264	0.000001179	0
267	Tren A4	LinDirHis	Min	0	0	-0.002612	-9.947E-07	-0.000115	0
268	Tren A4	LinDirHis	Max	0	0	0.000008135	0.000276	0.000001176	0
268	Tren A4	LinDirHis	Min	0	0	-0.00229	-0.000001065	-0.00011	0
269	Tren A4	LinDirHis	Max	0	0	0.000006883	0.000269	0.000001012	0
269	Tren A4	LinDirHis	Min	0	0	-0.002	-0.000001056	-0.0001	0
270	Tren A4	LinDirHis	Max	0	0	0.000006281	0.000262	8.696E-07	0
270	Tren A4	LinDirHis	Min	0	0	-0.001688	-0.000000926	-0.000107	0
271	Tren A4	LinDirHis	Max	0	0	0.000004861	0.000261	8.668E-07	0
271	Tren A4	LinDirHis	Min	0	0	-0.001361	-0.000001021	-0.000092	0
272	Tren A4	LinDirHis	Max	0	0	0.000004269	0.000229	6.187E-07	0
272	Tren A4	LinDirHis	Min	0	0	-0.001125	-9.147E-07	-0.000073	0
273	Tren A4	LinDirHis	Max	0	0	0.000004317	0.000207	6.235E-07	0
273	Tren A4	LinDirHis	Min	0	0	-0.000846	-8.013E-07	-0.000084	0
274	Tren A4	LinDirHis	Max	0	0	0.000002392	0.000184	6.668E-07	0
274	Tren A4	LinDirHis	Min	0	0	-0.000589	-0.000000926	-0.00005	0
275	Tren A4	LinDirHis	Max	0	0	0.000003021	0.000118	2.983E-07	0
275	Tren A4	LinDirHis	Min	0	0	-0.000488	-7.195E-07	-0.000037	0
276	Tren A4	LinDirHis	Max	0	0	0.00000288	0.000078	7.791E-07	0
276	Tren A4	LinDirHis	Min	0	0	-0.000276	-5.381E-07	-0.000062	0
277	Tren A4	LinDirHis	Max	0	0	0.000005093	0.00003	0.000003988	0

277	Tren A4	LinDirHis	Min	0	0	-0.000082	-6.172E-07	-0.000011	0
278	Tren A4	LinDirHis	Max	0	0	0.000001378	0.000038	5.327E-07	0
278	Tren A4	LinDirHis	Min	0	0	-0.000098	-6.139E-07	-0.000051	0
279	Tren A4	LinDirHis	Max	0	0	5.125E-12	0.000003005	0.000083	0
279	Tren A4	LinDirHis	Min	0	0	-0.000165	-1.093E-12	-0.000001379	0
280	Tren A4	LinDirHis	Max	0	0	7.01E-08	5.758E-14	0.000056	0
280	Tren A4	LinDirHis	Min	0	0	-0.000319	-0.000108	-0.000004905	0
283	Tren A4	LinDirHis	Max	0	0	0.00000515	1.089E-13	0.000042	0
283	Tren A4	LinDirHis	Min	0	0	-0.000496	-0.00013	-0.000002098	0
347	Tren A4	LinDirHis	Max	0	0	0.000003318	1.246E-07	0.000025	0
347	Tren A4	LinDirHis	Min	0	0	-0.000559	-0.000179	-0.00001	0
378	Tren A4	LinDirHis	Max	0	0	4.576E-07	3.362E-07	0.00008	0
378	Tren A4	LinDirHis	Min	0	0	-0.000708	-0.0002	-0.000007587	0
379	Tren A4	LinDirHis	Max	0	0	0.000001888	1.524E-07	0.000061	0
379	Tren A4	LinDirHis	Min	0	0	-0.000938	-0.000214	-0.000009322	0
380	Tren A4	LinDirHis	Max	0	0	0.000002368	1.683E-07	0.000061	0
380	Tren A4	LinDirHis	Min	0	0	-0.001098	-0.000248	-0.000018	0
381	Tren A4	LinDirHis	Max	0	0	0.000001009	3.359E-07	0.000091	0
381	Tren A4	LinDirHis	Min	0	0	-0.001322	-0.000256	-0.000017	0
383	Tren A4	LinDirHis	Max	0	0	0.000001969	2.348E-07	0.000076	0
383	Tren A4	LinDirHis	Min	0	0	-0.001566	-0.000263	-0.00002	0
388	Tren A4	LinDirHis	Max	0	0	0.000002724	3.089E-07	0.000086	0
388	Tren A4	LinDirHis	Min	0	0	-0.001772	-0.00028	-0.000025	0
389	Tren A4	LinDirHis	Max	0	0	0.000002262	4.032E-07	0.000096	0
389	Tren A4	LinDirHis	Min	0	0	-0.002018	-0.000277	-0.000025	0
390	Tren A4	LinDirHis	Max	0	0	0.000003059	3.231E-07	0.000091	0
390	Tren A4	LinDirHis	Min	0	0	-0.002263	-0.000277	-0.00003	0
391	Tren A4	LinDirHis	Max	0	0	0.000003845	4.279E-07	0.000099	0
391	Tren A4	LinDirHis	Min	0	0	-0.002495	-0.00028	-0.000035	0
392	Tren A4	LinDirHis	Max	0	0	0.000004038	4.937E-07	0.000099	0
392	Tren A4	LinDirHis	Min	0	0	-0.002747	-0.000269	-0.000039	0
393	Tren A4	LinDirHis	Max	0	0	0.000004822	4.236E-07	0.000098	0
393	Tren A4	LinDirHis	Min	0	0	-0.002982	-0.000261	-0.000043	0
394	Tren A4	LinDirHis	Max	0	0	0.00000553	5.099E-07	0.000101	0
394	Tren A4	LinDirHis	Min	0	0	-0.003204	-0.000252	-0.000048	0
448	Tren A4	LinDirHis	Max	0	0	0.000005839	5.277E-07	0.0001	0
448	Tren A4	LinDirHis	Min	0	0	-0.003433	-0.000233	-0.000052	0
449	Tren A4	LinDirHis	Max	0	0	0.00000659	4.575E-07	0.000099	0
449	Tren A4	LinDirHis	Min	0	0	-0.003646	-0.000217	-0.000061	0
450	Tren A4	LinDirHis	Max	0	0	0.000007923	4.726E-07	0.000096	0
450	Tren A4	LinDirHis	Min	0	0	-0.003834	-0.000195	-0.00007	0
451	Tren A4	LinDirHis	Max	0	0	0.000009387	0.000000472	0.000094	0
451	Tren A4	LinDirHis	Min	0	0	-0.004005	-0.00017	-0.000075	0
452	Tren A4	LinDirHis	Max	0	0	0.000011	4.342E-07	0.000092	0
452	Tren A4	LinDirHis	Min	0	0	-0.00416	-0.000147	-0.00008	0
455	Tren A4	LinDirHis	Max	0	0	0.000013	4.329E-07	0.000084	0
455	Tren A4	LinDirHis	Min	0	0	-0.004291	-0.000122	-0.000087	0
516	Tren A4	LinDirHis	Max	0	0	0.000014	4.025E-07	0.00008	0
516	Tren A4	LinDirHis	Min	0	0	-0.004394	-0.000093	-0.000091	0
517	Tren A4	LinDirHis	Max	0	0	0.000014	3.383E-07	0.000077	0

517	Tren A4	LinDirHis	Min	0	0	-0.004477	-0.000066	-0.000094	0
518	Tren A4	LinDirHis	Max	0	0	0.000015	2.875E-07	0.00007	0
518	Tren A4	LinDirHis	Min	0	0	-0.004536	-0.000039	-0.000098	0
519	Tren A4	LinDirHis	Max	0	0	0.000017	0.000005276	0.000061	0
519	Tren A4	LinDirHis	Min	0	0	-0.004553	-0.000015	-0.000104	0
527	Tren A4	LinDirHis	Max	0	0	0.000018	0.000033	0.000054	0
527	Tren A4	LinDirHis	Min	0	0	-0.004538	-0.000006721	-0.000108	0
528	Tren A4	LinDirHis	Max	0	0	0.000018	0.000061	0.000047	0
528	Tren A4	LinDirHis	Min	0	0	-0.004497	-0.000004462	-0.000109	0
529	Tren A4	LinDirHis	Max	0	0	0.000018	0.000091	0.000037	0
529	Tren A4	LinDirHis	Min	0	0	-0.004427	-0.000002674	-0.000112	0
531	Tren A4	LinDirHis	Max	0	0	0.000017	0.000119	0.000027	0
531	Tren A4	LinDirHis	Min	0	0	-0.004313	-0.000001869	-0.000113	0
532	Tren A4	LinDirHis	Max	0	0	0.000016	0.000146	0.00002	0
532	Tren A4	LinDirHis	Min	0	0	-0.004175	-0.000001397	-0.000111	0
533	Tren A4	LinDirHis	Max	0	0	0.000016	0.000173	0.000013	0
533	Tren A4	LinDirHis	Min	0	0	-0.004013	-0.000001299	-0.000111	0
539	Tren A4	LinDirHis	Max	0	0	0.000016	0.000199	0.000001789	0
539	Tren A4	LinDirHis	Min	0	0	-0.003808	-0.000001285	-0.000112	0
540	Tren A4	LinDirHis	Max	0	0	0.000015	0.00022	0.000001677	0
540	Tren A4	LinDirHis	Min	0	0	-0.003574	-0.000001156	-0.000111	0
541	Tren A4	LinDirHis	Max	0	0	0.000014	0.000242	0.000001637	0
541	Tren A4	LinDirHis	Min	0	0	-0.003319	-0.000001185	-0.000112	0
542	Tren A4	LinDirHis	Max	0	0	0.000012	0.000258	0.000001586	0
542	Tren A4	LinDirHis	Min	0	0	-0.003051	-0.0000012	-0.000113	0
543	Tren A4	LinDirHis	Max	0	0	0.000009851	0.000265	0.000001354	0
543	Tren A4	LinDirHis	Min	0	0	-0.002769	-0.000001021	-0.000112	0
544	Tren A4	LinDirHis	Max	0	0	0.000008569	0.000276	0.000001187	0
544	Tren A4	LinDirHis	Min	0	0	-0.002459	-0.000001041	-0.000113	0
545	Tren A4	LinDirHis	Max	0	0	0.000006912	0.00028	0.000001067	0
545	Tren A4	LinDirHis	Min	0	0	-0.002157	-0.000001162	-0.0001	0
546	Tren A4	LinDirHis	Max	0	0	0.000006767	0.000268	8.357E-07	0
546	Tren A4	LinDirHis	Min	0	0	-0.001867	-0.000001032	-0.0001	0
547	Tren A4	LinDirHis	Max	0	0	0.000006175	0.000268	9.051E-07	0
547	Tren A4	LinDirHis	Min	0	0	-0.001532	-0.000001039	-0.000103	0
548	Tren A4	LinDirHis	Max	0	0	0.000004444	0.000252	8.044E-07	0
548	Tren A4	LinDirHis	Min	0	0	-0.001245	-0.000001105	-0.000074	0
549	Tren A4	LinDirHis	Max	0	0	0.000004424	0.00022	5.554E-07	0
549	Tren A4	LinDirHis	Min	0	0	-0.001004	-8.968E-07	-0.00008	0
550	Tren A4	LinDirHis	Max	0	0	0.000003461	0.000203	7.684E-07	0
550	Tren A4	LinDirHis	Min	0	0	-0.000714	-8.318E-07	-0.000076	0
551	Tren A4	LinDirHis	Max	0	0	0.000001982	0.000157	4.598E-07	0
551	Tren A4	LinDirHis	Min	0	0	-0.000552	-8.445E-07	-0.000026	0
552	Tren A4	LinDirHis	Max	0	0	0.000003965	0.000096	4.074E-07	0
552	Tren A4	LinDirHis	Min	0	0	-0.000416	-5.675E-07	-0.000062	0
553	Tren A4	LinDirHis	Max	0	0	0.000001365	0.000058	7.688E-07	0
553	Tren A4	LinDirHis	Min	0	0	-0.000198	-6.499E-07	-0.000044	0
556	Tren A4	LinDirHis	Max	0	0	5.044E-12	0.00000441	0.000091	0
556	Tren A4	LinDirHis	Min	0	0	-0.000184	-1.09E-12	-0.000001538	0
557	Tren A4	LinDirHis	Max	0	0	0.000003553	4.582E-07	0.000103	0

Apéndice W				Flecha Dinámica Tren A4						V= 230 km/h
557	Tren A4	LinDirHis	Min	0	0	-0.002615	-0.000269	-0.000038	0	