

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 A7	LinDirHis	Max	0	0	7.846E-12	0.000004623	0.000025	0
140	Tren A7	LinDirHis	Min	0	0	-0.000283	-0.000002328	-5.205E-13	0
229	Tren A7	LinDirHis	Max	0	0	1.169E-12	2.194E-08	1.089E-12	0
229	Tren A7	LinDirHis	Min	0	0	-0.000255	-0.000069	-0.000023	0
230	Tren A7	LinDirHis	Max	0	0	3.907E-12	3.143E-07	0.000000313	0
230	Tren A7	LinDirHis	Min	0	0	-0.000263	-0.000034	-0.000013	0
231	Tren A7	LinDirHis	Max	0	0	1.013E-12	2.693E-13	0.000022	0
231	Tren A7	LinDirHis	Min	0	0	-0.000216	-0.000091	-0.000013	0
232	Tren A7	LinDirHis	Max	0	0	0.000002783	5.573E-13	0.00005	0
232	Tren A7	LinDirHis	Min	0	0	-0.00037	-0.000106	-0.000005466	0
233	Tren A7	LinDirHis	Max	0	0	0.000004928	7.774E-13	0.000023	0
233	Tren A7	LinDirHis	Min	0	0	-0.000491	-0.000138	-0.000011	0
234	Tren A7	LinDirHis	Max	0	0	0.000001469	3.575E-07	0.000053	0
234	Tren A7	LinDirHis	Min	0	0	-0.00055	-0.000182	-0.000014	0
235	Tren A7	LinDirHis	Max	0	0	0.00000104	2.247E-07	0.00007	0
235	Tren A7	LinDirHis	Min	0	0	-0.000769	-0.000186	-0.000009872	0
236	Tren A7	LinDirHis	Max	0	0	0.000002773	8.868E-08	0.000055	0
236	Tren A7	LinDirHis	Min	0	0	-0.000942	-0.000211	-0.000015	0
237	Tren A7	LinDirHis	Max	0	0	0.000001499	3.463E-07	0.000076	0
237	Tren A7	LinDirHis	Min	0	0	-0.001098	-0.000236	-0.000018	0
238	Tren A7	LinDirHis	Max	0	0	0.000001005	2.761E-07	0.000079	0
238	Tren A7	LinDirHis	Min	0	0	-0.001345	-0.000233	-0.000017	0
239	Tren A7	LinDirHis	Max	0	0	0.000002426	2.129E-07	0.000072	0
239	Tren A7	LinDirHis	Min	0	0	-0.001541	-0.000249	-0.000025	0
240	Tren A7	LinDirHis	Max	0	0	0.000002252	4.129E-07	0.000086	0
240	Tren A7	LinDirHis	Min	0	0	-0.00175	-0.000258	-0.00003	0
241	Tren A7	LinDirHis	Max	0	0	0.000002159	3.895E-07	0.000087	0
241	Tren A7	LinDirHis	Min	0	0	-0.001995	-0.000252	-0.000032	0
242	Tren A7	LinDirHis	Max	0	0	0.000003356	3.434E-07	0.000088	0
242	Tren A7	LinDirHis	Min	0	0	-0.002213	-0.000256	-0.000036	0
244	Tren A7	LinDirHis	Max	0	0	0.000004328	0.000000449	0.000093	0
244	Tren A7	LinDirHis	Min	0	0	-0.002668	-0.000241	-0.000043	0
245	Tren A7	LinDirHis	Max	0	0	0.000005441	4.189E-07	0.000093	0
245	Tren A7	LinDirHis	Min	0	0	-0.002876	-0.000235	-0.000053	0
246	Tren A7	LinDirHis	Max	0	0	0.00000586	4.747E-07	0.000095	0
246	Tren A7	LinDirHis	Min	0	0	-0.003082	-0.000221	-0.000056	0
247	Tren A7	LinDirHis	Max	0	0	0.000006672	4.453E-07	0.000091	0
247	Tren A7	LinDirHis	Min	0	0	-0.003288	-0.000204	-0.000064	0
248	Tren A7	LinDirHis	Max	0	0	0.000007804	4.026E-07	0.000094	0
248	Tren A7	LinDirHis	Min	0	0	-0.00348	-0.000189	-0.000074	0
249	Tren A7	LinDirHis	Max	0	0	0.00000862	4.317E-07	0.000091	0
249	Tren A7	LinDirHis	Min	0	0	-0.003653	-0.000168	-0.000079	0
250	Tren A7	LinDirHis	Max	0	0	0.000009673	4.081E-07	0.000089	0
250	Tren A7	LinDirHis	Min	0	0	-0.003807	-0.000147	-0.000083	0
251	Tren A7	LinDirHis	Max	0	0	0.000012	4.283E-07	0.000086	0
251	Tren A7	LinDirHis	Min	0	0	-0.003939	-0.000125	-0.000088	0
252	Tren A7	LinDirHis	Max	0	0	0.000014	4.351E-07	0.000079	0

252	Tren A7	LinDirHis	Min	0	0	-0.004048	-0.0001	-0.000097	0
253	Tren A7	LinDirHis	Max	0	0	0.000015	3.728E-07	0.000075	0
253	Tren A7	LinDirHis	Min	0	0	-0.004131	-0.000074	-0.000102	0
254	Tren A7	LinDirHis	Max	0	0	0.000016	3.169E-07	0.000068	0
254	Tren A7	LinDirHis	Min	0	0	-0.004189	-0.000049	-0.000106	0
255	Tren A7	LinDirHis	Max	0	0	0.000016	2.593E-07	0.000062	0
255	Tren A7	LinDirHis	Min	0	0	-0.004229	-0.000025	-0.000111	0
256	Tren A7	LinDirHis	Max	0	0	0.000017	0.000017	0.000057	0
256	Tren A7	LinDirHis	Min	0	0	-0.004235	-0.00001	-0.000114	0
257	Tren A7	LinDirHis	Max	0	0	0.000017	0.000043	0.00005	0
257	Tren A7	LinDirHis	Min	0	0	-0.004213	-0.000005483	-0.000114	0
258	Tren A7	LinDirHis	Max	0	0	0.000017	0.00007	0.000043	0
258	Tren A7	LinDirHis	Min	0	0	-0.004159	-0.000003355	-0.000116	0
259	Tren A7	LinDirHis	Max	0	0	0.000018	0.000097	0.000032	0
259	Tren A7	LinDirHis	Min	0	0	-0.004075	-0.000002067	-0.000121	0
260	Tren A7	LinDirHis	Max	0	0	0.000018	0.000122	0.000024	0
260	Tren A7	LinDirHis	Min	0	0	-0.003956	-0.000001512	-0.000123	0
261	Tren A7	LinDirHis	Max	0	0	0.000017	0.000147	0.000015	0
261	Tren A7	LinDirHis	Min	0	0	-0.003805	-0.00000117	-0.00012	0
262	Tren A7	LinDirHis	Max	0	0	0.000016	0.000171	0.00000525	0
262	Tren A7	LinDirHis	Min	0	0	-0.003636	-0.000001163	-0.000121	0
263	Tren A7	LinDirHis	Max	0	0	0.000015	0.000192	0.000001896	0
263	Tren A7	LinDirHis	Min	0	0	-0.003436	-0.000001178	-0.000116	0
264	Tren A7	LinDirHis	Max	0	0	0.000014	0.00021	0.000001743	0
264	Tren A7	LinDirHis	Min	0	0	-0.003212	-0.000001135	-0.000116	0
265	Tren A7	LinDirHis	Max	0	0	0.000012	0.00023	0.00000162	0
265	Tren A7	LinDirHis	Min	0	0	-0.002965	-0.000001171	-0.000114	0
266	Tren A7	LinDirHis	Max	0	0	0.00001	0.000239	0.000001433	0
266	Tren A7	LinDirHis	Min	0	0	-0.00271	-0.000001121	-0.00011	0
267	Tren A7	LinDirHis	Max	0	0	0.000009305	0.000247	0.000001178	0
267	Tren A7	LinDirHis	Min	0	0	-0.002438	-9.929E-07	-0.000115	0
268	Tren A7	LinDirHis	Max	0	0	0.000008121	0.000258	0.000001175	0
268	Tren A7	LinDirHis	Min	0	0	-0.002136	-0.000001063	-0.000112	0
269	Tren A7	LinDirHis	Max	0	0	0.000006871	0.000251	0.00000101	0
269	Tren A7	LinDirHis	Min	0	0	-0.001868	-0.000001054	-0.000099	0
270	Tren A7	LinDirHis	Max	0	0	0.00000627	0.000245	0.000000868	0
270	Tren A7	LinDirHis	Min	0	0	-0.001579	-9.241E-07	-0.000101	0
271	Tren A7	LinDirHis	Max	0	0	0.000004852	0.000244	8.663E-07	0
271	Tren A7	LinDirHis	Min	0	0	-0.001274	-0.00000102	-0.000089	0
272	Tren A7	LinDirHis	Max	0	0	0.000004265	0.000214	0.000000618	0
272	Tren A7	LinDirHis	Min	0	0	-0.001051	-9.134E-07	-0.00007	0
273	Tren A7	LinDirHis	Max	0	0	0.000004312	0.000193	6.228E-07	0
273	Tren A7	LinDirHis	Min	0	0	-0.00079	-8.001E-07	-0.000078	0
274	Tren A7	LinDirHis	Max	0	0	0.000002388	0.000172	0.000000666	0
274	Tren A7	LinDirHis	Min	0	0	-0.00055	-9.245E-07	-0.00005	0
275	Tren A7	LinDirHis	Max	0	0	0.00000302	0.000111	2.978E-07	0
275	Tren A7	LinDirHis	Min	0	0	-0.000457	-0.000000718	-0.000037	0
276	Tren A7	LinDirHis	Max	0	0	0.000002877	0.000073	7.788E-07	0
276	Tren A7	LinDirHis	Min	0	0	-0.000258	-5.369E-07	-0.00006	0
277	Tren A7	LinDirHis	Max	0	0	0.000005085	0.000027	0.000003083	0

277	Tren A7	LinDirHis	Min	0	0	-0.000081	-6.158E-07	-0.000011	0
278	Tren A7	LinDirHis	Max	0	0	0.000001378	0.000036	5.322E-07	0
278	Tren A7	LinDirHis	Min	0	0	-0.000095	-6.127E-07	-0.000045	0
279	Tren A7	LinDirHis	Max	0	0	5.758E-12	0.000002324	0.000081	0
279	Tren A7	LinDirHis	Min	0	0	-0.000139	-1.06E-12	-0.000001379	0
280	Tren A7	LinDirHis	Max	0	0	7.01E-08	3.584E-13	0.000053	0
280	Tren A7	LinDirHis	Min	0	0	-0.000298	-0.000101	-0.000004905	0
283	Tren A7	LinDirHis	Max	0	0	0.00000515	5.229E-13	0.000039	0
283	Tren A7	LinDirHis	Min	0	0	-0.000459	-0.000121	-0.000002098	0
347	Tren A7	LinDirHis	Max	0	0	0.000003318	1.246E-07	0.000023	0
347	Tren A7	LinDirHis	Min	0	0	-0.000521	-0.000167	-0.000011	0
378	Tren A7	LinDirHis	Max	0	0	4.576E-07	3.362E-07	0.000074	0
378	Tren A7	LinDirHis	Min	0	0	-0.000664	-0.000187	-0.000007587	0
379	Tren A7	LinDirHis	Max	0	0	0.000001888	1.524E-07	0.000056	0
379	Tren A7	LinDirHis	Min	0	0	-0.00088	-0.0002	-0.000009321	0
380	Tren A7	LinDirHis	Max	0	0	0.000002368	1.683E-07	0.000058	0
380	Tren A7	LinDirHis	Min	0	0	-0.001028	-0.000232	-0.000018	0
381	Tren A7	LinDirHis	Max	0	0	0.000001009	3.359E-07	0.000086	0
381	Tren A7	LinDirHis	Min	0	0	-0.001237	-0.00024	-0.000017	0
383	Tren A7	LinDirHis	Max	0	0	0.000001969	2.348E-07	0.000071	0
383	Tren A7	LinDirHis	Min	0	0	-0.001465	-0.000246	-0.00002	0
388	Tren A7	LinDirHis	Max	0	0	0.000002724	3.089E-07	0.000081	0
388	Tren A7	LinDirHis	Min	0	0	-0.001652	-0.000261	-0.000025	0
389	Tren A7	LinDirHis	Max	0	0	0.000002261	4.029E-07	0.00009	0
389	Tren A7	LinDirHis	Min	0	0	-0.00188	-0.000259	-0.000025	0
390	Tren A7	LinDirHis	Max	0	0	0.000003059	3.229E-07	0.000085	0
390	Tren A7	LinDirHis	Min	0	0	-0.002111	-0.000259	-0.00003	0
391	Tren A7	LinDirHis	Max	0	0	0.000003846	4.277E-07	0.000091	0
391	Tren A7	LinDirHis	Min	0	0	-0.002329	-0.000261	-0.000035	0
392	Tren A7	LinDirHis	Max	0	0	0.000004037	4.935E-07	0.000092	0
392	Tren A7	LinDirHis	Min	0	0	-0.002569	-0.000251	-0.000039	0
393	Tren A7	LinDirHis	Max	0	0	0.000004819	4.232E-07	0.000093	0
393	Tren A7	LinDirHis	Min	0	0	-0.002788	-0.000244	-0.000046	0
394	Tren A7	LinDirHis	Max	0	0	0.000005528	5.095E-07	0.000095	0
394	Tren A7	LinDirHis	Min	0	0	-0.002996	-0.000235	-0.000051	0
448	Tren A7	LinDirHis	Max	0	0	0.000005835	5.274E-07	0.000094	0
448	Tren A7	LinDirHis	Min	0	0	-0.003206	-0.000217	-0.000055	0
449	Tren A7	LinDirHis	Max	0	0	0.000006584	4.571E-07	0.000092	0
449	Tren A7	LinDirHis	Min	0	0	-0.003399	-0.000202	-0.000064	0
450	Tren A7	LinDirHis	Max	0	0	0.000007916	4.723E-07	0.00009	0
450	Tren A7	LinDirHis	Min	0	0	-0.003576	-0.000181	-0.000074	0
451	Tren A7	LinDirHis	Max	0	0	0.000009378	4.716E-07	0.000088	0
451	Tren A7	LinDirHis	Min	0	0	-0.003736	-0.000159	-0.000079	0
452	Tren A7	LinDirHis	Max	0	0	0.000011	4.337E-07	0.000084	0
452	Tren A7	LinDirHis	Min	0	0	-0.00388	-0.000137	-0.000084	0
455	Tren A7	LinDirHis	Max	0	0	0.000013	4.325E-07	0.00008	0
455	Tren A7	LinDirHis	Min	0	0	-0.004009	-0.000114	-0.000092	0
516	Tren A7	LinDirHis	Max	0	0	0.000014	4.022E-07	0.000076	0
516	Tren A7	LinDirHis	Min	0	0	-0.004108	-0.000087	-0.000095	0
517	Tren A7	LinDirHis	Max	0	0	0.000014	3.379E-07	0.000072	0

517	Tren A7	LinDirHis	Min	0	0	-0.004184	-0.000062	-0.000098	0
518	Tren A7	LinDirHis	Max	0	0	0.000015	2.872E-07	0.000066	0
518	Tren A7	LinDirHis	Min	0	0	-0.00423	-0.000037	-0.000102	0
519	Tren A7	LinDirHis	Max	0	0	0.000017	0.000005024	0.000058	0
519	Tren A7	LinDirHis	Min	0	0	-0.004246	-0.000016	-0.000109	0
527	Tren A7	LinDirHis	Max	0	0	0.000017	0.000031	0.000051	0
527	Tren A7	LinDirHis	Min	0	0	-0.004234	-0.000006712	-0.000113	0
528	Tren A7	LinDirHis	Max	0	0	0.000018	0.000057	0.000042	0
528	Tren A7	LinDirHis	Min	0	0	-0.00419	-0.000004457	-0.000114	0
529	Tren A7	LinDirHis	Max	0	0	0.000018	0.000085	0.000035	0
529	Tren A7	LinDirHis	Min	0	0	-0.004131	-0.00000267	-0.000116	0
531	Tren A7	LinDirHis	Max	0	0	0.000017	0.000112	0.000027	0
531	Tren A7	LinDirHis	Min	0	0	-0.004033	-0.000001867	-0.000117	0
532	Tren A7	LinDirHis	Max	0	0	0.000016	0.000137	0.000019	0
532	Tren A7	LinDirHis	Min	0	0	-0.003903	-0.000001395	-0.000115	0
533	Tren A7	LinDirHis	Max	0	0	0.000016	0.000162	0.000012	0
533	Tren A7	LinDirHis	Min	0	0	-0.003743	-0.000001297	-0.000115	0
539	Tren A7	LinDirHis	Max	0	0	0.000016	0.000186	0.000001786	0
539	Tren A7	LinDirHis	Min	0	0	-0.00355	-0.000001283	-0.000116	0
540	Tren A7	LinDirHis	Max	0	0	0.000015	0.000205	0.000001676	0
540	Tren A7	LinDirHis	Min	0	0	-0.003334	-0.000001155	-0.000114	0
541	Tren A7	LinDirHis	Max	0	0	0.000014	0.000226	0.000001635	0
541	Tren A7	LinDirHis	Min	0	0	-0.003094	-0.000001184	-0.000116	0
542	Tren A7	LinDirHis	Max	0	0	0.000012	0.000241	0.000001583	0
542	Tren A7	LinDirHis	Min	0	0	-0.002845	-0.000001199	-0.000114	0
543	Tren A7	LinDirHis	Max	0	0	0.000009833	0.000247	0.000001352	0
543	Tren A7	LinDirHis	Min	0	0	-0.00259	-0.00000102	-0.00011	0
544	Tren A7	LinDirHis	Max	0	0	0.000008552	0.000258	0.000001185	0
544	Tren A7	LinDirHis	Min	0	0	-0.002301	-0.00000104	-0.000111	0
545	Tren A7	LinDirHis	Max	0	0	0.000006897	0.000261	0.000001065	0
545	Tren A7	LinDirHis	Min	0	0	-0.002013	-0.00000116	-0.000099	0
546	Tren A7	LinDirHis	Max	0	0	0.000006759	0.00025	8.339E-07	0
546	Tren A7	LinDirHis	Min	0	0	-0.00174	-0.00000103	-0.000096	0
547	Tren A7	LinDirHis	Max	0	0	0.000006166	0.00025	9.039E-07	0
547	Tren A7	LinDirHis	Min	0	0	-0.001431	-0.000001038	-0.0001	0
548	Tren A7	LinDirHis	Max	0	0	0.000004437	0.000234	8.033E-07	0
548	Tren A7	LinDirHis	Min	0	0	-0.001163	-0.000001103	-0.000073	0
549	Tren A7	LinDirHis	Max	0	0	0.000004422	0.000205	5.545E-07	0
549	Tren A7	LinDirHis	Min	0	0	-0.000939	-0.000000895	-0.000076	0
550	Tren A7	LinDirHis	Max	0	0	0.000003457	0.000189	7.679E-07	0
550	Tren A7	LinDirHis	Min	0	0	-0.000668	-8.302E-07	-0.000071	0
551	Tren A7	LinDirHis	Max	0	0	0.000001979	0.000147	4.592E-07	0
551	Tren A7	LinDirHis	Min	0	0	-0.000517	-8.429E-07	-0.000026	0
552	Tren A7	LinDirHis	Max	0	0	0.000003962	0.00009	4.074E-07	0
552	Tren A7	LinDirHis	Min	0	0	-0.000389	-5.662E-07	-0.000057	0
553	Tren A7	LinDirHis	Max	0	0	0.000001364	0.000055	7.682E-07	0
553	Tren A7	LinDirHis	Min	0	0	-0.000183	-6.488E-07	-0.000041	0
556	Tren A7	LinDirHis	Max	0	0	6.143E-12	0.000003862	0.000091	0
556	Tren A7	LinDirHis	Min	0	0	-0.000161	-1.188E-12	-0.000001538	0
557	Tren A7	LinDirHis	Max	0	0	0.000003551	4.583E-07	0.000097	0

Apéndice O1				Flecha Dinámica Tren A7						V= 230 km/h
557	Tren A7	LinDirHis	Min	0	0	-0.00244	-0.000251	-0.000038	0	