

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 A9	LinDirHist	Max	0	0	2.138E-11	0.000005117	0.000026	0
140	Tren A9	LinDirHist	Min	0	0	-0.000307	-0.000002638	-1.14E-12	0
229	Tren A9	LinDirHist	Max	0	0	3.858E-12	2.513E-08	1.622E-12	0
229	Tren A9	LinDirHist	Min	0	0	-0.00028	-0.000072	-0.00003	0
230	Tren A9	LinDirHist	Max	0	0	7.573E-12	3.497E-07	3.559E-07	0
230	Tren A9	LinDirHist	Min	0	0	-0.000292	-0.000035	-0.000015	0
231	Tren A9	LinDirHist	Max	0	0	2.25E-12	5.884E-13	0.000021	0
231	Tren A9	LinDirHist	Min	0	0	-0.000232	-0.000097	-0.000014	0
232	Tren A9	LinDirHist	Max	0	0	0.000003079	7.769E-13	0.000056	0
232	Tren A9	LinDirHist	Min	0	0	-0.000393	-0.000112	-0.000006044	0
233	Tren A9	LinDirHist	Max	0	0	0.000005447	1.599E-12	0.000024	0
233	Tren A9	LinDirHist	Min	0	0	-0.00052	-0.000147	-0.000012	0
234	Tren A9	LinDirHist	Max	0	0	0.000001624	3.952E-07	0.000055	0
234	Tren A9	LinDirHist	Min	0	0	-0.000585	-0.000193	-0.000015	0
235	Tren A9	LinDirHist	Max	0	0	0.00000115	2.482E-07	0.000074	0
235	Tren A9	LinDirHist	Min	0	0	-0.000817	-0.000197	-0.000011	0
236	Tren A9	LinDirHist	Max	0	0	0.000003065	9.799E-08	0.000057	0
236	Tren A9	LinDirHist	Min	0	0	-0.001001	-0.000224	-0.000016	0
237	Tren A9	LinDirHist	Max	0	0	0.000001656	3.826E-07	0.000082	0
237	Tren A9	LinDirHist	Min	0	0	-0.00117	-0.00025	-0.000019	0
238	Tren A9	LinDirHist	Max	0	0	0.000001112	3.052E-07	0.000084	0
238	Tren A9	LinDirHist	Min	0	0	-0.001428	-0.000247	-0.000019	0
239	Tren A9	LinDirHist	Max	0	0	0.000002683	2.354E-07	0.000078	0
239	Tren A9	LinDirHist	Min	0	0	-0.001635	-0.000264	-0.000027	0
240	Tren A9	LinDirHist	Max	0	0	0.000002488	4.563E-07	0.000094	0
240	Tren A9	LinDirHist	Min	0	0	-0.001858	-0.000274	-0.000033	0
241	Tren A9	LinDirHist	Max	0	0	0.000002386	4.305E-07	0.000091	0
241	Tren A9	LinDirHist	Min	0	0	-0.002122	-0.000268	-0.000035	0
242	Tren A9	LinDirHist	Max	0	0	0.000003711	3.795E-07	0.000093	0
242	Tren A9	LinDirHist	Min	0	0	-0.00235	-0.000272	-0.00004	0
244	Tren A9	LinDirHist	Max	0	0	0.000004785	4.963E-07	0.0001	0
244	Tren A9	LinDirHist	Min	0	0	-0.002837	-0.000256	-0.000048	0
245	Tren A9	LinDirHist	Max	0	0	0.000006014	4.629E-07	0.000099	0
245	Tren A9	LinDirHist	Min	0	0	-0.003056	-0.00025	-0.000059	0
246	Tren A9	LinDirHist	Max	0	0	0.000006477	5.245E-07	0.0001	0
246	Tren A9	LinDirHist	Min	0	0	-0.003274	-0.000235	-0.000062	0
247	Tren A9	LinDirHist	Max	0	0	0.000007375	0.000000492	0.000099	0
247	Tren A9	LinDirHist	Min	0	0	-0.003489	-0.000216	-0.000071	0
248	Tren A9	LinDirHist	Max	0	0	0.000008626	4.449E-07	0.000099	0
248	Tren A9	LinDirHist	Min	0	0	-0.003697	-0.000201	-0.000082	0
249	Tren A9	LinDirHist	Max	0	0	0.000009526	4.773E-07	0.000095	0
249	Tren A9	LinDirHist	Min	0	0	-0.003881	-0.000179	-0.000087	0
250	Tren A9	LinDirHist	Max	0	0	0.000011	4.512E-07	0.000093	0
250	Tren A9	LinDirHist	Min	0	0	-0.004041	-0.000156	-0.000092	0
251	Tren A9	LinDirHist	Max	0	0	0.000013	4.735E-07	0.000092	0
251	Tren A9	LinDirHist	Min	0	0	-0.004186	-0.000133	-0.000098	0
252	Tren A9	LinDirHist	Max	0	0	0.000015	4.809E-07	0.000086	0

252	Tren A9	LinDirHist	Min	0	0	-0.004302	-0.000106	-0.000108	0
253	Tren A9	LinDirHist	Max	0	0	0.000017	4.121E-07	0.000079	0
253	Tren A9	LinDirHist	Min	0	0	-0.004388	-0.000079	-0.000113	0
254	Tren A9	LinDirHist	Max	0	0	0.000018	3.503E-07	0.000075	0
254	Tren A9	LinDirHist	Min	0	0	-0.004448	-0.000052	-0.000117	0
255	Tren A9	LinDirHist	Max	0	0	0.000018	2.866E-07	0.000066	0
255	Tren A9	LinDirHist	Min	0	0	-0.00449	-0.000027	-0.000123	0
256	Tren A9	LinDirHist	Max	0	0	0.000018	0.000018	0.000058	0
256	Tren A9	LinDirHist	Min	0	0	-0.0045	-0.000011	-0.000126	0
257	Tren A9	LinDirHist	Max	0	0	0.000018	0.000046	0.000052	0
257	Tren A9	LinDirHist	Min	0	0	-0.004472	-0.00000606	-0.000127	0
258	Tren A9	LinDirHist	Max	0	0	0.000019	0.000075	0.000045	0
258	Tren A9	LinDirHist	Min	0	0	-0.004417	-0.000003707	-0.000129	0
259	Tren A9	LinDirHist	Max	0	0	0.00002	0.000103	0.000036	0
259	Tren A9	LinDirHist	Min	0	0	-0.004331	-0.000002284	-0.000135	0
260	Tren A9	LinDirHist	Max	0	0	0.000019	0.00013	0.000024	0
260	Tren A9	LinDirHist	Min	0	0	-0.004202	-0.000001671	-0.000136	0
261	Tren A9	LinDirHist	Max	0	0	0.000019	0.000156	0.000017	0
261	Tren A9	LinDirHist	Min	0	0	-0.004042	-0.000001293	-0.000133	0
262	Tren A9	LinDirHist	Max	0	0	0.000018	0.000182	0.000007332	0
262	Tren A9	LinDirHist	Min	0	0	-0.003858	-0.000001285	-0.000134	0
263	Tren A9	LinDirHist	Max	0	0	0.000017	0.000204	0.000002096	0
263	Tren A9	LinDirHist	Min	0	0	-0.003651	-0.000001302	-0.000131	0
264	Tren A9	LinDirHist	Max	0	0	0.000015	0.000223	0.000001926	0
264	Tren A9	LinDirHist	Min	0	0	-0.00341	-0.000001254	-0.000127	0
265	Tren A9	LinDirHist	Max	0	0	0.000013	0.000244	0.00000179	0
265	Tren A9	LinDirHist	Min	0	0	-0.003148	-0.000001293	-0.000126	0
266	Tren A9	LinDirHist	Max	0	0	0.000011	0.000254	0.000001583	0
266	Tren A9	LinDirHist	Min	0	0	-0.002881	-0.000001239	-0.00012	0
267	Tren A9	LinDirHist	Max	0	0	0.00001	0.000262	0.000001302	0
267	Tren A9	LinDirHist	Min	0	0	-0.002591	-0.000001097	-0.000123	0
268	Tren A9	LinDirHist	Max	0	0	0.000008975	0.000274	0.000001298	0
268	Tren A9	LinDirHist	Min	0	0	-0.002269	-0.000001175	-0.000119	0
269	Tren A9	LinDirHist	Max	0	0	0.000007593	0.000267	0.000001116	0
269	Tren A9	LinDirHist	Min	0	0	-0.001982	-0.000001165	-0.000106	0
270	Tren A9	LinDirHist	Max	0	0	0.000006927	0.00026	9.592E-07	0
270	Tren A9	LinDirHist	Min	0	0	-0.001679	-0.000001021	-0.000111	0
271	Tren A9	LinDirHist	Max	0	0	0.000005361	0.000259	9.576E-07	0
271	Tren A9	LinDirHist	Min	0	0	-0.001353	-0.000001127	-0.000096	0
272	Tren A9	LinDirHist	Max	0	0	0.000004714	0.000227	6.832E-07	0
272	Tren A9	LinDirHist	Min	0	0	-0.001116	-0.00000101	-0.000076	0
273	Tren A9	LinDirHist	Max	0	0	0.000004765	0.000206	6.883E-07	0
273	Tren A9	LinDirHist	Min	0	0	-0.000841	-8.843E-07	-0.000085	0
274	Tren A9	LinDirHist	Max	0	0	0.000002639	0.000183	7.358E-07	0
274	Tren A9	LinDirHist	Min	0	0	-0.000586	-0.000001022	-0.000053	0
275	Tren A9	LinDirHist	Max	0	0	0.000003337	0.000117	3.291E-07	0
275	Tren A9	LinDirHist	Min	0	0	-0.000486	-7.934E-07	-0.000038	0
276	Tren A9	LinDirHist	Max	0	0	0.00000318	0.000077	0.000000861	0
276	Tren A9	LinDirHist	Min	0	0	-0.000274	-5.933E-07	-0.000059	0
277	Tren A9	LinDirHist	Max	0	0	0.000005621	0.00003	0.000002537	0

277	Tren A9	LinDirHist	Min	0	0	-0.000073	-6.805E-07	-0.000009051	0
278	Tren A9	LinDirHist	Max	0	0	0.000001524	0.000037	0.000000588	0
278	Tren A9	LinDirHist	Min	0	0	-0.000095	-6.772E-07	-0.000049	0
279	Tren A9	LinDirHist	Max	0	0	1.237E-11	0.000003727	0.000083	0
279	Tren A9	LinDirHist	Min	0	0	-0.000165	-2.952E-12	-0.00000155	0
280	Tren A9	LinDirHist	Max	0	0	7.803E-08	4.911E-13	0.000055	0
280	Tren A9	LinDirHist	Min	0	0	-0.000315	-0.000108	-0.000005419	0
283	Tren A9	LinDirHist	Max	0	0	0.000005693	9.054E-13	0.000041	0
283	Tren A9	LinDirHist	Min	0	0	-0.000493	-0.000129	-0.000002316	0
347	Tren A9	LinDirHist	Max	0	0	0.000003667	1.379E-07	0.000026	0
347	Tren A9	LinDirHist	Min	0	0	-0.000556	-0.000178	-0.000012	0
378	Tren A9	LinDirHist	Max	0	0	5.061E-07	3.715E-07	0.000079	0
378	Tren A9	LinDirHist	Min	0	0	-0.000705	-0.000199	-0.000008386	0
379	Tren A9	LinDirHist	Max	0	0	0.000002089	1.686E-07	0.000061	0
379	Tren A9	LinDirHist	Min	0	0	-0.000933	-0.000212	-0.00001	0
380	Tren A9	LinDirHist	Max	0	0	0.000002616	1.862E-07	0.000062	0
380	Tren A9	LinDirHist	Min	0	0	-0.001088	-0.000246	-0.00002	0
381	Tren A9	LinDirHist	Max	0	0	0.000001115	0.000000371	0.00009	0
381	Tren A9	LinDirHist	Min	0	0	-0.001316	-0.000254	-0.000018	0
383	Tren A9	LinDirHist	Max	0	0	0.000002176	2.595E-07	0.000075	0
383	Tren A9	LinDirHist	Min	0	0	-0.001555	-0.000261	-0.000022	0
388	Tren A9	LinDirHist	Max	0	0	0.000003011	3.416E-07	0.000085	0
388	Tren A9	LinDirHist	Min	0	0	-0.001755	-0.000278	-0.000027	0
389	Tren A9	LinDirHist	Max	0	0	0.000002499	4.455E-07	0.000097	0
389	Tren A9	LinDirHist	Min	0	0	-0.002003	-0.000275	-0.000028	0
390	Tren A9	LinDirHist	Max	0	0	0.000003381	3.568E-07	0.00009	0
390	Tren A9	LinDirHist	Min	0	0	-0.002244	-0.000275	-0.000033	0
391	Tren A9	LinDirHist	Max	0	0	0.00000425	4.729E-07	0.000097	0
391	Tren A9	LinDirHist	Min	0	0	-0.002471	-0.000277	-0.000039	0
392	Tren A9	LinDirHist	Max	0	0	0.000004462	5.457E-07	0.0001	0
392	Tren A9	LinDirHist	Min	0	0	-0.002725	-0.000266	-0.000043	0
393	Tren A9	LinDirHist	Max	0	0	0.000005326	4.679E-07	0.000098	0
393	Tren A9	LinDirHist	Min	0	0	-0.002962	-0.000259	-0.000051	0
394	Tren A9	LinDirHist	Max	0	0	0.000006108	5.631E-07	0.0001	0
394	Tren A9	LinDirHist	Min	0	0	-0.003182	-0.00025	-0.000057	0
448	Tren A9	LinDirHist	Max	0	0	0.000006448	5.829E-07	0.000099	0
448	Tren A9	LinDirHist	Min	0	0	-0.003403	-0.000231	-0.000061	0
449	Tren A9	LinDirHist	Max	0	0	0.000007281	5.053E-07	0.000099	0
449	Tren A9	LinDirHist	Min	0	0	-0.003615	-0.000215	-0.000071	0
450	Tren A9	LinDirHist	Max	0	0	0.000008751	0.000000522	0.000097	0
450	Tren A9	LinDirHist	Min	0	0	-0.003802	-0.000193	-0.000082	0
451	Tren A9	LinDirHist	Max	0	0	0.00001	5.212E-07	0.000093	0
451	Tren A9	LinDirHist	Min	0	0	-0.003968	-0.000169	-0.000087	0
452	Tren A9	LinDirHist	Max	0	0	0.000013	4.793E-07	0.000092	0
452	Tren A9	LinDirHist	Min	0	0	-0.004116	-0.000146	-0.000093	0
455	Tren A9	LinDirHist	Max	0	0	0.000014	0.000000478	0.000085	0
455	Tren A9	LinDirHist	Min	0	0	-0.004256	-0.000121	-0.000102	0
516	Tren A9	LinDirHist	Max	0	0	0.000015	4.444E-07	0.000079	0
516	Tren A9	LinDirHist	Min	0	0	-0.004365	-0.000093	-0.000106	0
517	Tren A9	LinDirHist	Max	0	0	0.000016	3.734E-07	0.000076	0

517	Tren A9	LinDirHist	Min	0	0	-0.004441	-0.000065	-0.000109	0
518	Tren A9	LinDirHist	Max	0	0	0.000017	3.174E-07	0.00007	0
518	Tren A9	LinDirHist	Min	0	0	-0.004495	-0.00004	-0.000113	0
519	Tren A9	LinDirHist	Max	0	0	0.000019	0.000005423	0.000063	0
519	Tren A9	LinDirHist	Min	0	0	-0.004514	-0.000018	-0.000121	0
527	Tren A9	LinDirHist	Max	0	0	0.000019	0.000033	0.000053	0
527	Tren A9	LinDirHist	Min	0	0	-0.004497	-0.000007416	-0.000125	0
528	Tren A9	LinDirHist	Max	0	0	0.000019	0.000061	0.000046	0
528	Tren A9	LinDirHist	Min	0	0	-0.00445	-0.000004926	-0.000126	0
529	Tren A9	LinDirHist	Max	0	0	0.00002	0.00009	0.000039	0
529	Tren A9	LinDirHist	Min	0	0	-0.004383	-0.00000295	-0.000129	0
531	Tren A9	LinDirHist	Max	0	0	0.000019	0.000119	0.000027	0
531	Tren A9	LinDirHist	Min	0	0	-0.004285	-0.000002064	-0.00013	0
532	Tren A9	LinDirHist	Max	0	0	0.000018	0.000145	0.000019	0
532	Tren A9	LinDirHist	Min	0	0	-0.004143	-0.000001541	-0.000128	0
533	Tren A9	LinDirHist	Max	0	0	0.000018	0.000172	0.000012	0
533	Tren A9	LinDirHist	Min	0	0	-0.003975	-0.000001433	-0.000128	0
539	Tren A9	LinDirHist	Max	0	0	0.000017	0.000197	0.000002449	0
539	Tren A9	LinDirHist	Min	0	0	-0.003775	-0.000001418	-0.000129	0
540	Tren A9	LinDirHist	Max	0	0	0.000016	0.000218	0.000001853	0
540	Tren A9	LinDirHist	Min	0	0	-0.003542	-0.000001276	-0.000124	0
541	Tren A9	LinDirHist	Max	0	0	0.000015	0.00024	0.000001807	0
541	Tren A9	LinDirHist	Min	0	0	-0.003286	-0.000001309	-0.000126	0
542	Tren A9	LinDirHist	Max	0	0	0.000013	0.000256	0.00000175	0
542	Tren A9	LinDirHist	Min	0	0	-0.003018	-0.000001325	-0.000124	0
543	Tren A9	LinDirHist	Max	0	0	0.000011	0.000263	0.000001494	0
543	Tren A9	LinDirHist	Min	0	0	-0.002752	-0.000001128	-0.000122	0
544	Tren A9	LinDirHist	Max	0	0	0.000009448	0.000274	0.000001309	0
544	Tren A9	LinDirHist	Min	0	0	-0.002443	-0.000001149	-0.000121	0
545	Tren A9	LinDirHist	Max	0	0	0.00000762	0.000277	0.000001177	0
545	Tren A9	LinDirHist	Min	0	0	-0.002138	-0.000001282	-0.000108	0
546	Tren A9	LinDirHist	Max	0	0	0.000007471	0.000266	9.213E-07	0
546	Tren A9	LinDirHist	Min	0	0	-0.001855	-0.000001139	-0.000103	0
547	Tren A9	LinDirHist	Max	0	0	0.000006814	0.000265	0.000000999	0
547	Tren A9	LinDirHist	Min	0	0	-0.001521	-0.000001147	-0.000106	0
548	Tren A9	LinDirHist	Max	0	0	0.000004903	0.000249	8.876E-07	0
548	Tren A9	LinDirHist	Min	0	0	-0.001235	-0.000001219	-0.000077	0
549	Tren A9	LinDirHist	Max	0	0	0.000004888	0.000218	6.127E-07	0
549	Tren A9	LinDirHist	Min	0	0	-0.000994	-9.891E-07	-0.00008	0
550	Tren A9	LinDirHist	Max	0	0	0.000003821	0.000201	8.487E-07	0
550	Tren A9	LinDirHist	Min	0	0	-0.00071	-9.173E-07	-0.000076	0
551	Tren A9	LinDirHist	Max	0	0	0.000002187	0.000156	5.076E-07	0
551	Tren A9	LinDirHist	Min	0	0	-0.000552	-9.317E-07	-0.000028	0
552	Tren A9	LinDirHist	Max	0	0	0.000004379	0.000095	4.503E-07	0
552	Tren A9	LinDirHist	Min	0	0	-0.000412	-6.259E-07	-0.000063	0
553	Tren A9	LinDirHist	Max	0	0	0.000001507	0.000056	0.000000849	0
553	Tren A9	LinDirHist	Min	0	0	-0.0002	-0.000000717	-0.000044	0
556	Tren A9	LinDirHist	Max	0	0	1.404E-11	0.000005082	0.000091	0
556	Tren A9	LinDirHist	Min	0	0	-0.000186	-3.429E-12	-0.000001725	0
557	Tren A9	LinDirHist	Max	0	0	0.000003928	5.065E-07	0.000102	0

Apéndice A2				Flecha Dinámica Tren A9						V= 230 km/h
557	Tren A9	LinDirHist	Min	0	0	-0.00259	-0.000266	-0.000042	0	