

Element name	Type	L (m)	S (m)	W (MeV)	Horizontal				Vertical			
					Beta (m)	Alpha	Eta (m)	Eta'	Beta (m)	Alpha	Eta (m)	Eta'
Start		0	0		0.2377	0	0	0	1.3453	0	0	0
Q01	*QUAD*	0.25	0.25		0.2515	-0.5613	0	0	1.2846	2.3917	0	0
LA4	*DRIFT*	3.5	3.75		1.2849	-2.3912	0	0	0.2512	0.5607	0	0
Q02	*QUAD*	0.5	4.25		1.2848	2.3932	0	0	0.2513	-0.5611	0	0
LA4	*DRIFT*	3.5	7.75		0.251	0.5605	0	0	1.2851	-2.3927	0	0
Q03	*QUAD*	0.5	8.25		0.251	-0.5605	0	0	1.2851	2.3927	0	0
LA4	*DRIFT*	3.5	11.75		1.2848	-2.3932	0	0	0.2513	0.5611	0	0
Q04	*QUAD*	0.5	12.25		1.2849	2.3912	0	0	0.2512	-0.5607	0	0
LA4	*DRIFT*	3.5	15.75		0.2515	0.5613	0	0	1.2846	-2.3917	0	0
Q05	*QUAD*	0.5	16.25		0.2515	-0.5613	0	0	1.2846	2.3917	0	0
LA4	*DRIFT*	3.5	19.75		1.2849	-2.3912	0	0	0.2512	0.5607	0	0
Q06	*QUAD*	0.5	20.25		1.2848	2.3932	0	0	0.2513	-0.5611	0	0
LA5	*DRIFT*	3.5	23.75		0.251	0.5605	0	0	1.2851	-2.3927	0	0
Q07	*QUAD*	0.5	24.25		0.251	-0.5605	0	0	1.2851	2.3927	0	0
LA6	*DRIFT*	3.5	27.75		1.2848	-2.3932	0	0	0.2513	0.5611	0	0
Q08	*QUAD*	0.5	28.25		1.3192	1.7414	0	0	0.2447	-0.4238	0	0
LA3	*DRIFT*	3.5	31.75		0.4747	0.6715	0	0	1.1319	-2.1109	0	0
Q09	*QUAD*	0.5	32.25		0.4792	-0.765	0	0	1.183	1.1365	0	0
LA4	*DRIFT*	3.5	35.75		1.4199	-1.9228	0	0	0.6248	0.4585	0	0
Q10	*QUAD*	0.5	36.25		1.4251	1.8229	0	0	0.6656	-1.3109	0	0
LA5	*DRIFT*	4	40.25		0.4521	0.6095	0	0	2.3678	-2.9446	0	0
Q11	*QUAD*	0.25	40.5		0.4371	0	0	0	2.4422	0.0009	0	0
Q11	*QUAD*	0.25	40.75		0.4493	-0.4948	0	0	2.3829	2.3523	0	0
LL3	*DRIFT*	0.5	41.25		0.5057	-0.6334	0	0	2.1545	2.2152	0	0
DD1	*BEND	5.334	46.584		1.9551	-2.1016	0.5219	1.9698	0.5346	0.7632	0	0
LL4	*DRIFT*	1	47.584		2.4031	-2.3786	0.7189	1.9698	0.4116	0.4672	0	0
Q12	*QUAD*	0.5	48.084		2.4024	2.3915	0.7806	0.475	0.4114	-0.4639	0	0
LL3	*DRIFT*	0.5	48.584		2.1703	2.2517	0.8043	0.475	0.4652	-0.6115	0	0
DD2	*BEND	5.333	53.917		0.5692	0.7695	1.578	2.4448	1.9273	-2.0767	0	0
LL4	*DRIFT*	1	54.917		0.4433	0.4898	1.8224	2.4448	2.3702	-2.3524	0	0
Q13	*QUAD*	0.25	55.167		0.4312	0.0001	1.9063	4.2737	2.4298	-0.0137	0	0
Q13	*QUAD*	0.25	55.417		0.4433	-0.4897	2.037	6.2078	2.3715	2.3264	0	0
LL3	*DRIFT*	0.5	55.917		0.4993	-0.6295	2.3474	6.2078	2.1456	2.1912	0	0

DD3	*BEND	5.334	61.251	1.9518	-2.1115	6.1591	8.1776	0.5404	0.7603	0	0
LL4	*DRIFT*	1	62.251	2.4021	-2.3912	6.9768	8.1776	0.4176	0.4683	0	0
Q14	*QUAD*	0.5	62.751	2.4028	2.3783	7.0369	-5.7927	0.4178	-0.4731	0	0
LL3	*DRIFT*	0.5	63.251	2.1719	2.2398	6.7473	-5.7927	0.4724	-0.6195	0	0
DD4	*BEND	5.333	68.584	0.576	0.7717	4.1995	-3.8229	1.9356	-2.0708	0	0
LL4	*DRIFT*	1.5	70.084	0.4493	-0.4949	3.812	3.6155	2.3769	2.347	0	0
LL3	*DRIFT*	0.5	70.584	0.5057	-0.6335	3.9928	3.6155	2.1491	2.2101	0	0
DD5	*BEND	5.333801	75.9178	1.9553	-2.1018	6.4308	5.5854	0.5337	0.76	0	0
LL4	*DRIFT*	1.000199	76.918	2.4033	-2.3789	6.9893	5.5854	0.4113	0.4644	0	0
Q16	*QUAD*	0.5	77.418	2.4027	2.3918	6.9213	-8.2821	0.4114	-0.4664	0	0
LL3	*DRIFT*	0.5	77.918	2.1705	2.2519	6.5072	-8.2821	0.4654	-0.6143	0	0
DD6	*BEND	5.333	83.251	0.5693	0.7696	2.6402	-6.3123	1.9321	-2.0824	0	0
LL4	*DRIFT*	1	84.251	0.4433	0.4899	2.0089	-6.3123	2.3762	-2.3586	0	0
Q17	*QUAD*	0.25	84.501	0.4312	0.0002	1.8752	-4.4072	2.436	-0.0139	0	0
Q17	*QUAD*	0.25	84.751	0.4433	-0.4896	1.7877	-2.6107	2.3776	2.3322	0	0
LL3	*DRIFT*	0.5	85.251	0.4992	-0.6294	1.6571	-2.6107	2.1512	2.1968	0	0
DD7	*BEND	5.334	90.585	1.9517	-2.1113	0.7956	-0.6408	0.5412	0.7635	0	0
LL4	*DRIFT*	1	91.585	2.4019	-2.391	0.7315	-0.6408	0.4177	0.471	0	0
Q18	*QUAD*	0.5	92.085	2.4026	2.3781	0.6641	-2.0321	0.4177	-0.4704	0	0
LL3	*DRIFT*	0.5	92.585	2.1717	2.2396	0.5625	-2.0321	0.472	-0.6166	0	0
DD8	*BEND	5.333	97.918	0.5759	0.7716	0.0076	-0.0623	1.9307	-2.0654	0	0
LL4	*DRIFT*	1	98.918	0.4493	0.4946	0.0013	-0.0623	2.371	-2.3381	0	0
Q19	*QUAD*	0.25	99.168	0.437	-0.0002	-0.0002	-0.0618	2.4299	0.0014	0	0
Q19	*QUAD*	0.25	99.418	0.4493	-0.495	-0.0018	-0.0627	2.3709	2.3408	0	0
LLQ	*DRIFT*	5	104.418	1.6371	-1.8805	-0.0332	-0.0627	0.7133	0.9744	0	0
Q20	*QUAD*	0.5	104.918	1.6378	1.8674	-0.0344	0.0151	0.7	-0.6987	0	0
LLQ	*DRIFT*	4.5	109.418	0.5119	0.6345	-0.0275	0.0151	1.7594	-1.6554	0	0
Q21	*QUAD*	0.5	109.918	0.5145	-0.6885	-0.0284	-0.0516	1.7136	2.533	0	0
LLQ	*DRIFT*	4	113.918	1.5237	-1.8344	-0.0491	-0.0516	0.3797	0.8019	0	0
Q22	*QUAD*	0.5	114.418	1.4957	2.3678	-0.0482	0.085	0.3583	-0.3555	0	0
LLR	*DRIFT*	4	118.418	0.3082	0.601	-0.0142	0.085	1.1456	-1.6129	0	0
Q23	*QUAD*	0.5	118.918	0.2963	-0.3538	-0.0108	0.0525	1.1573	1.3899	0	0
LLS	*DRIFT*	4	122.918	1.1869	-1.8727	0.0102	0.0525	0.4507	0.3766	0	0
Q24	*QUAD*	0.5	123.418	1.1829	1.9493	0.0119	0.0165	0.492	-1.2466	0	0
LBR	*DRIFT*	3.5	126.918	0.3154	0.5291	0.0177	0.0165	2.0005	-3.0634	0	0
Q25	*QUAD*	0.5	127.418	0.3176	-0.5747	0.0199	0.0724	2.0032	3.013	0	0

LLU	*DRIFT*	1	128.418	0.4744	-0.9936	0.0271	0.0724	1.4509	2.5099	0	0
DD7	*BEND	4.144	132.562	1.9878	-2.63	-0.2593	-1.4521	0.2347	0.425	0	0
LLV	*DRIFT*	0.5	133.062	2.2608	-2.8292	-0.3319	-1.4521	0.2047	0.1735	0	0
Q26	*QUAD*	0.5	133.562	2.1942	4.0914	-0.3774	-0.3451	0.232	-0.7461	0	0
LLX	*DRIFT*	3.5	137.062	0.3206	1.2618	-0.4982	-0.3451	1.5762	-3.0946	0	0
Q27	*QUAD*	0.5	137.562	0.2534	0.1503	-0.5538	-1.9085	1.646	1.7696	0	0
LLY	*DRIFT*	3.5	141.062	0.6425	-1.2623	-1.2218	-1.9085	0.7148	0.8911	0	0
Q28	*QUAD*	0.5	141.562	0.6718	0.708	-1.2219	1.9052	0.7387	-1.3942	0	0
LLZ	*DRIFT*	3.5	145.062	0.45	-0.0742	-0.5551	1.9052	2.2028	-2.789	0	0
Q29	*QUAD*	0.5	145.562	0.5352	-1.7149	-0.4997	0.3378	2.1489	3.8128	0	0
LAA	*DRIFT*	3	148.562	2.2269	-3.9241	-0.3984	0.3378	0.512	1.6437	0	0
Q30	*QUAD*	0.5	149.062	2.2148	4.151	-0.3467	1.6961	0.4439	-0.203	0	0
LAB	*DRIFT*	3.5	152.562	0.3174	1.27	0.2469	1.6961	0.8733	-1.0238	0	0
Q31	*QUAD*	0.5	153.062	0.2491	0.1637	0.3527	2.5871	0.8464	1.5355	0	0
LAC	*DRIFT*	3.5	156.562	0.6394	-1.2788	1.2581	2.5871	0.2575	0.147	0	0
Q32	*QUAD*	0.5	157.062	0.6708	0.6838	1.2885	-1.3873	0.2934	-0.9022	0	0
LAD	*DRIFT*	6.115	163.177	0.6526	-0.654	0.4402	-1.3873	3.7083	-4.6822	0	0
Q33	*QUAD*	0.5	163.677	0.9189	-5.1209	0.4258	0.7971	3.2382	13.2624	0	0
LAF	*DRIFT*	0.36	164.037	1.326	-6.1875	0.4545	0.7971	2.3541	11.2958	0	0
Q34	*QUAD*	0.5	164.537	1.6183	0.826	0.4383	-1.4313	1.8033	0.6036	0	0
LAF	*DRIFT*	1.25	165.787	1.428	0.6961	0.2594	-1.4313	1.6642	0.509	0	0
DDF	*BEND	3.064	168.851	1.0847	0.42	-0.0102	-0.3267	1.4233	0.2772	0	0
LAG	*DRIFT*	2.384	171.235	0.9461	0.1614	-0.0881	-0.3267	1.3341	0.0969	0	0
DDG	*BEND	0.795	172.03	0.9256	0.0957	-0.0973	0.095	1.3235	0.0368	0	0
L5H	*DRIFT*	0	172.03	0.9256	0.0957	-0.0973	0.095	1.3235	0.0368	0	0