

### Currents for T9 test beam optics (focus 2 m downstream of XDWC)

Momentum	QDE1	QFO2	BHZ1	QFO3 ( $\pm?$ )	BHZ2	QFO4	BHZ3	QDE5	BVT1	QDE6	QFO7
0.30	12.1997	11.9903	26.7834	8.7042	7.3635	4.6079	7.3635	7.9247	10.7484	11.8408	11.4296
0.50	20.3329	19.8743	44.6390	14.5070	12.2724	7.6799	12.2724	13.2079	17.9140	19.7352	19.0499
0.60	24.3992	23.6537	53.5668	17.4084	14.7269	9.2159	14.7269	15.8495	21.4968	23.6825	22.8601
0.80	32.5319	30.9787	71.4224	23.2112	19.6359	12.2878	19.6359	21.1327	28.6624	31.5777	30.4811
1.00	40.6645	38.0741	89.2780	29.0140	24.5449	15.3598	24.5449	26.4158	35.8326	39.4738	38.1029
1.50	60.9943	55.2230	133.9169	43.5210	36.8173	23.0396	36.8173	39.6237	53.7573	59.2194	57.1622
2.00	81.3214	72.0033	178.5644	58.0280	49.0898	30.7195	49.0898	52.8317	71.6923	78.9759	76.2312
2.50	101.6450	88.7659	223.2114	72.5350	61.3622	38.3994	61.3622	66.0396	89.6410	98.7473	95.3136
3.00	121.9645	105.7098	267.8624	87.0420	73.6347	46.0793	73.6347	79.2475	107.6067	118.5385	114.4133
3.50	142.2793	122.9414	312.5182	101.5490	85.9071	53.7591	85.9071	92.4554	125.5929	138.3544	133.5356
4.00	162.5892	140.4961	357.1794	116.0559	98.1796	61.4390	98.1796	105.6633	143.6030	158.2011	152.6848
4.50	182.8944	158.3518	401.8471	130.5629	110.4520	69.1189	110.4520	118.8712	161.6405	178.0854	171.8672
5.00	203.1952	176.4420	446.5219	145.0699	122.7244	76.7988	122.7244	132.0791	179.7090	198.0152	191.0896
6.00	243.7878	212.9473	535.8959	174.0839	147.2693	92.1585	147.2693	158.4949	215.9616	238.0487	229.6864
7.00	284.3798	249.2946	625.3080	203.0979	171.8142	107.5183	171.8142	184.9108	252.3817	278.3930	268.5529
8.00	324.9971	285.1042	714.7646	232.1119	196.3591	122.8780	196.3591	211.3266	289.0048	319.1699	307.7912
9.00	365.6804	320.4332	804.2720	261.1259	220.9040	138.2378	220.9040	237.7424	325.8642	360.5444	347.5386
10.00	406.4941	355.6641	893.8365	290.1399	245.4489	153.5975	245.4489	264.1583	362.9955	402.7434	387.9804
11.00	447.5341	391.3894	983.4688	319.4118	269.9938	168.9573	269.9938	290.5741	400.4425	446.0857	429.3710
12.00	488.9418	428.3690	1073.1692	350.8842	294.5387	184.3170	294.5387	317.1945	438.2386	491.0378	472.0738
13.00	530.9243	467.5558	1162.9468	385.6329	319.0836	199.6768	319.0836	345.4978	476.4316	538.3231	516.6287
14.00	573.7927	510.1595	1252.8085	424.9618	343.6285	215.0365	343.6285	376.1945	515.0705	589.1680	563.8976
15.00	618.0289	557.7490	1342.7610	471.3700	373.3065	230.3963	373.3065	410.0194	554.2129	645.9753	615.4128

### Focussing options for T9 test beam

Momentum (GeV/c)	Focus at XDWC		Focus Nominal + 2.5 m		Focus Nominal + 5 m		Focus Nominal + 7.5 m		Focus Nominal + 10 m	
	QDE6	QFO7	QDE6	QFO7	QDE6	QFO7	QDE6	QFO7	QDE6	QFO7
0.30	12.3188	12.5651	11.3746	10.4561	11.0388	9.8156	10.7864	9.3656	10.5894	9.0317
0.50	20.5320	20.9425	18.9582	17.4272	18.3985	16.3597	17.9777	15.6094	17.6494	15.0528
0.60	24.6388	25.1314	22.7501	20.9129	22.0784	19.6319	21.5735	18.7317	21.1796	18.0638
0.80	32.8529	33.5097	30.3344	27.8845	29.4387	26.1764	28.7654	24.9761	28.2401	24.0855
1.00	41.0680	41.8891	37.9195	34.8568	36.7998	32.7214	35.9580	31.2210	35.3014	30.1076
1.50	61.6118	62.8442	56.8870	52.2912	55.2067	49.0871	53.9436	46.8358	52.9583	45.1652
2.00	82.1679	83.8122	75.8640	69.7330	73.6224	65.4589	71.9373	62.4559	70.6228	60.2275
2.50	102.7410	104.7983	94.8542	87.1848	92.0501	81.8389	89.9421	78.0831	88.2979	75.2963
3.00	123.3365	125.8085	113.8615	104.6498	110.4933	98.2296	107.9614	93.7195	105.9866	90.3732
3.50	143.9603	146.8488	132.8910	122.1314	128.9565	114.6337	125.9992	109.3674	123.6927	105.4604
4.00	164.6194	167.9270	151.9470	139.6330	147.4436	131.0544	144.0592	125.0295	141.4197	120.5601
4.50	185.3218	189.0516	171.0356	157.1590	165.9602	147.4944	162.1462	140.7081	159.1721	135.6745
5.00	206.0769	210.2330	190.1634	174.7139	184.5119	163.9577	180.2657	156.4064	176.9548	150.8063
6.00	247.7896	252.8149	228.5685	209.9328	221.7489	196.9707	216.6269	187.8761	212.6344	181.1340
7.00	289.8678	295.7926	267.2381	245.3415	259.2207	230.1327	253.2027	219.4707	248.5134	211.5708
8.00	332.4593	339.3307	306.2721	281.0076	297.0138	263.4941	290.0703	251.2306	284.6636	242.1510
9.00	375.7691	383.6575	345.8041	317.0172	335.2427	297.1181	327.3316	283.2071	321.1766	272.9181
10.00	420.0834	429.0954	386.0147	353.4843	374.0600	331.0864	365.1209	315.4637	358.1744	303.9248
11.00	465.8165	476.1194	427.1508	390.5591	413.6717	365.5045	403.6177	348.0824	395.8188	335.2389
12.00	513.5973	525.4648	469.5637	428.4429	454.3642	400.5094	443.0682	381.1682	434.3274	366.9460

### Currents for T9 parallel beam optics

Momentum	QDE1	QFO2	BHZ1	QFO3	BHZ2	QFO4	BHZ3	QDE5	BVT1	QDE6	QFO7
0.50	20.3329	19.8743	44.6390	14.5070	12.2724	7.6799	12.2724	13.2079	17.9140	15.9477	13.1850
1.0	40.6645	38.0741	89.2780	29.0140	24.5449	15.3598	24.5449	26.4158	35.8326	31.8972	26.3714
1.5	60.9943	55.2230	133.9169	43.5210	36.8173	23.0396	36.8173	39.6237	53.7573	47.8504	39.5596
2.0	81.3214	72.0033	178.5644	58.0280	49.0898	30.7195	49.0898	52.8317	71.6923	63.8092	52.7510
2.5	101.6450	88.7659	223.2114	72.5350	61.3622	38.3994	61.3622	66.0396	89.6410	79.7757	65.9467
3.0	121.9645	105.7098	267.8624	87.0420	73.6347	46.0793	73.6347	79.2475	107.6067	95.7520	79.1478
3.5	142.2793	122.9414	312.5182	101.5490	85.9071	53.7591	85.9071	92.4554	125.5929	111.7406	92.3555
4.0	162.5892	140.4961	357.1794	116.0559	98.1796	61.4390	98.1796	105.6633	143.6030	127.7445	105.5713
4.5	182.8944	158.3518	401.8471	130.5629	110.4520	69.1189	110.4520	118.8712	161.6405	143.7661	118.7968
5.0	203.1952	176.4420	446.5219	145.0699	122.7244	76.7988	122.7244	132.0791	179.7090	159.8090	132.0333
6.0	243.7878	212.9473	535.8959	174.0839	147.2693	92.1585	147.2693	158.4949	215.9616	191.9736	158.5466
7.0	284.3798	249.2946	625.3080	203.0979	171.8142	107.5183	171.8142	184.9108	252.3817	224.2736	185.1274
8.0	324.9971	285.1042	714.7646	232.1119	196.3591	122.8780	196.3591	211.3266	289.0048	256.7536	211.7950
9.0	365.6804	320.4332	804.2720	261.1259	220.9040	138.2378	220.9040	237.7424	325.8642	289.4698	238.5727
10.0	406.4941	355.6641	893.8365	290.1399	245.4489	153.5975	245.4489	264.1583	362.9955	322.4938	265.4893
11.0	447.5341	391.3894	983.4688	319.4118	269.9938	168.9573	269.9938	290.5741	400.4425	355.9170	292.5788
12.0	488.9418	428.3690	1073.1692	350.8842	294.5387	184.3170	294.5387	317.1945	438.2386	389.8585	319.8838