Lattice functions in the Booster with and without quadrupole correctors.

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dP/P	β_x	β_y	Dispersion	ν_x	ν_y	ξ_x	ξ_x
	m	m	m				
-0.004	42.34	26.23	7.31	6.8396	6.7821	-25.86	10.03
-0.003	41.62	26.15	6.11	6.8135	6.7918	-25.83	9.26
-0.002	41.10	25.97	5.35	6.7874	6.8008	-25.85	8.82
-0.001	40.74	25.72	4.93	6.7613	6.8096	-25.92	8.56
0.000	40.51	25.42	4.65	6.7351	6.8181	-26.01	8.40
0.001	40.43	25.45	4.46	6.7088	6.8265	-26.12	8.29
0.002	40.80	25.52	4.33	6.6824	6.8347	-26.26	8.20
0.003	42.14	25.59	4.24	6.6559	6.8429	-26.44	8.11
0.004	44.03	25.66	4.19	6.6292	6.8509	-26.70	8.00

Table 1: Booster lattice functions. $I_{sexts} = -10\ A$, $I_{sextl} = -10\ A$. Quadrupole correctors are off.

dP/P	β_x	β_y	Dispersion	ν_x	ν_y	ξ_x	ξ_x
	m	m	m				
-0.004	41.04	25.76	6.37	6.8235	6.7782	-21.67	9.75
-0.003	40.72	25.64	5.63	6.8015	6.7880	-21.77	9.82
-0.002	40.54	25.53	5.16	6.7794	6.7980	-21.86	9.90
-0.001	40.47	25.46	4.86	6.7573	6.8080	-21.95	10.00
0.000	40.51	25.41	4.64	6.7350	6.8180	-22.04	10.09
0.001	40.67	25.38	4.49	6.7127	6.8282	-22.12	10.15
0.002	40.98	25.37	4.38	6.6904	6.8384	-22.21	10.19
0.003	41.46	25.37	4.30	6.6679	6.8486	-22.31	10.20
0.004	42.20	25.36	4.24	6.6454	6.8588	-22.42	10.16

Table 2: Booster lattice functions. $I_{sexts} = 0\ A$, $I_{sextl} = 0\ A$. Quadrupole correctors are off.

dP/P	β_x	β_y	Dispersion	ν_x	ν_y	ξ_x	ξ_x
	m	m	m				
-0.004	41.28	26.23	5.67	6.8075	6.7727	-17.64	10.68
-0.003	40.66	25.92	5.29	6.7895	6.7836	-17.76	11.02
-0.002	40.11	25.60	5.01	6.7715	6.7948	-17.87	11.31
-0.001	40.20	25.48	4.80	6.7533	6.8063	-17.97	11.56
0.000	40.51	25.41	4.64	6.7350	6.8180	-18.07	11.78
0.001	40.92	25.69	4.52	6.7167	6.8299	-18.16	11.96
0.002	41.45	26.04	4.43	6.6983	6.8420	-18.25	12.10
0.003	42.13	26.49	4.36	6.6798	6.8542	-18.34	12.21
0.004	42.98	27.04	4.31	6.6613	6.8664	-18.42	12.29

Table 3: Booster lattice functions. $I_{sexts} = +10\ A$, $I_{sextl} = +10\ A$. Quadrupole correctors are off.

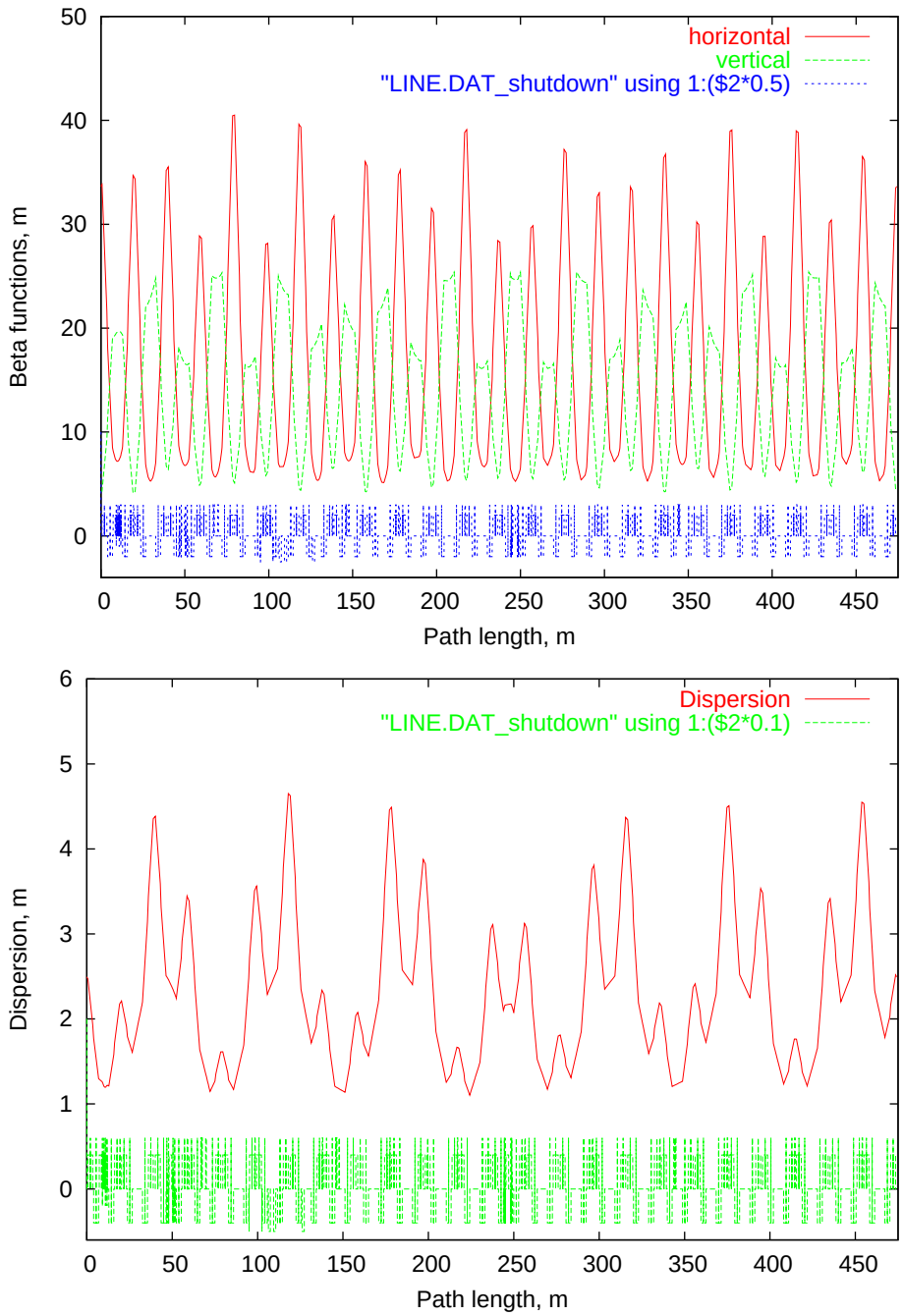

Figure 1: Booster β-functions and dispersion. Quadrupole correctors are off.

dP/P	β_x	β_y	Dispersion	ν_x	ν_y	ξ_x	ξ_x
	m	m	m				
-0.004	49.32	28.59	3.87	6.8168	6.8161	-26.22	7.15
-0.003	48.17	28.03	3.85	6.7903	6.8234	-26.20	7.31
-0.002	47.34	27.48	3.84	6.7638	6.8308	-26.23	7.48
-0.001	46.74	26.94	3.85	6.7373	6.8384	-26.28	7.61
0.000	46.31	26.64	3.86	6.7108	6.8461	-26.34	7.71
0.001	46.02	26.86	3.88	6.6842	6.8539	-26.42	7.75
0.002	45.85	27.13	3.90	6.6575	6.8617	-26.51	7.74
0.003	45.81	27.43	3.95	6.6308	6.8694	-26.64	7.69
0.004	45.95	27.79	4.01	6.6039	6.8771	-26.85	7.58

Table 4: Booster lattice functions. $I_{sexts} = -10\ A$, $I_{sextl} = -10\ A$. Quadrupole correctors are on.

dP/P	β_x	β_y	Dispersion	ν_x	ν_y	ξ_x	ξ_x
	m	m	m				
-0.004	49.06	27.42	3.76	6.8013	6.8063	-22.27	9.41
-0.003	48.11	27.14	3.78	6.7787	6.8160	-22.32	9.70
-0.002	47.36	26.95	3.80	6.7561	6.8259	-22.37	9.93
-0.001	46.77	26.78	3.83	6.7334	6.8359	-22.42	10.10
0.000	46.31	26.64	3.86	6.7108	6.8461	-22.46	10.21
0.001	45.98	26.51	3.89	6.6881	6.8564	-22.49	10.26
0.002	45.77	26.38	3.93	6.6654	6.8667	-22.52	10.24
0.003	45.70	26.25	3.96	6.6427	6.8769	-22.56	10.16
0.004	45.83	26.16	4.00	6.6199	6.8870	-22.62	10.01

Table 5: Booster lattice functions. $I_{sexts} = 0\ A$, $I_{sextl} = 0\ A$. Quadrupole correctors are on.

dP/P	β_x	β_y	Dispersion	ν_x	ν_y	ξ_x	ξ_x
	m	m	m				
-0.004	48.87	28.70	3.81	6.7856	6.7962	-18.29	11.96
-0.003	48.07	28.10	3.79	6.7670	6.8084	-18.39	12.22
-0.002	47.38	27.59	3.78	6.7483	6.8208	-18.47	12.44
-0.001	46.80	27.11	3.82	6.7295	6.8334	-18.53	12.60
0.000	46.31	26.64	3.86	6.7108	6.8461	-18.58	12.71
0.001	45.93	26.85	3.91	6.6919	6.8589	-18.62	12.78
0.002	45.66	27.42	3.95	6.6731	6.8717	-18.65	12.80
0.003	45.53	28.13	3.99	6.6543	6.8845	-18.68	12.79
0.004	45.70	29.03	4.04	6.6354	6.8973	-18.72	12.73

Table 6: Booster lattice functions. $I_{sexts} = +10\ A$, $I_{sextl} = +10\ A$. Quadrupole correctors are on.

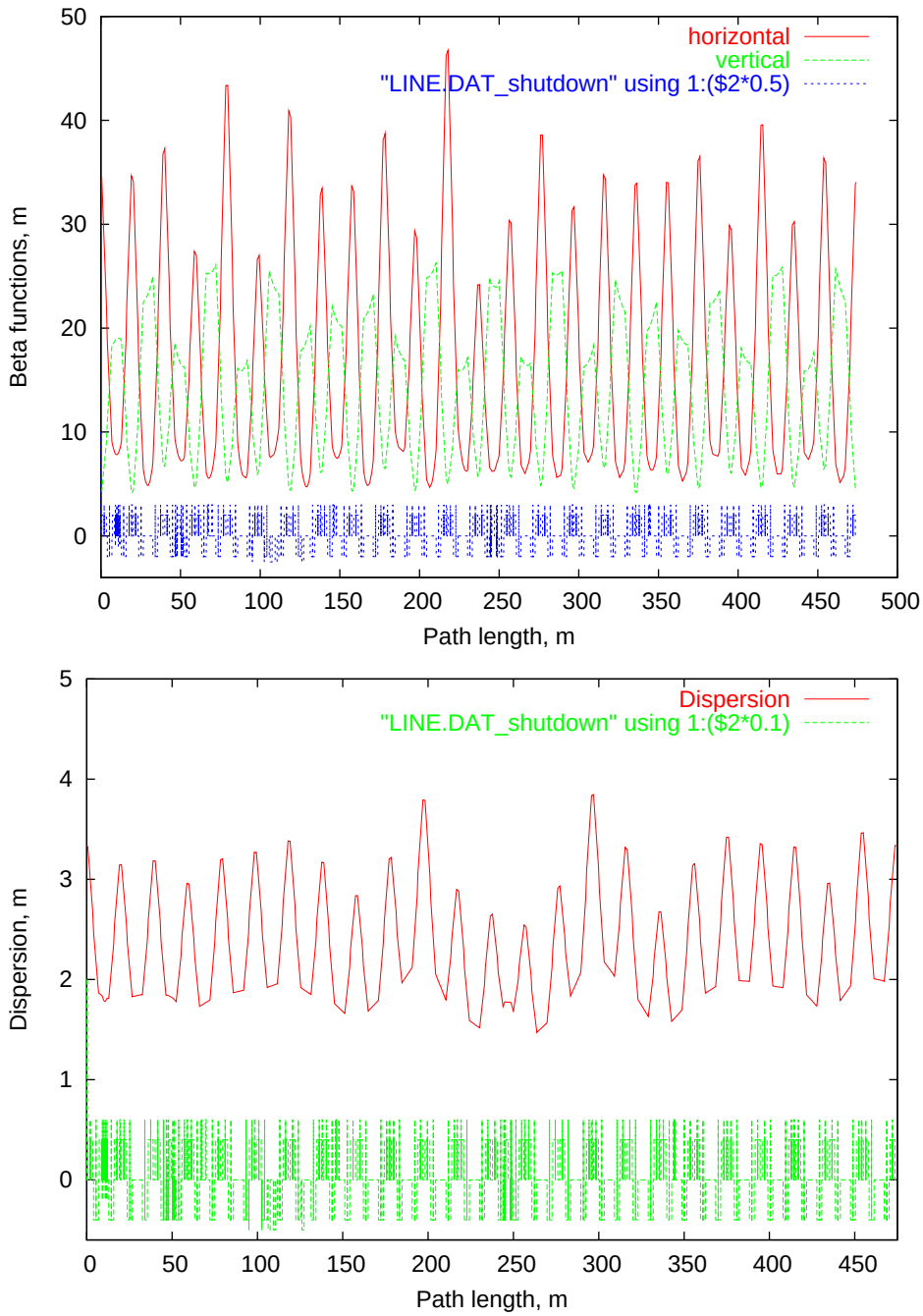

Figure 2: Booster β-functions and dispersion. Quadrupole correctors are on.

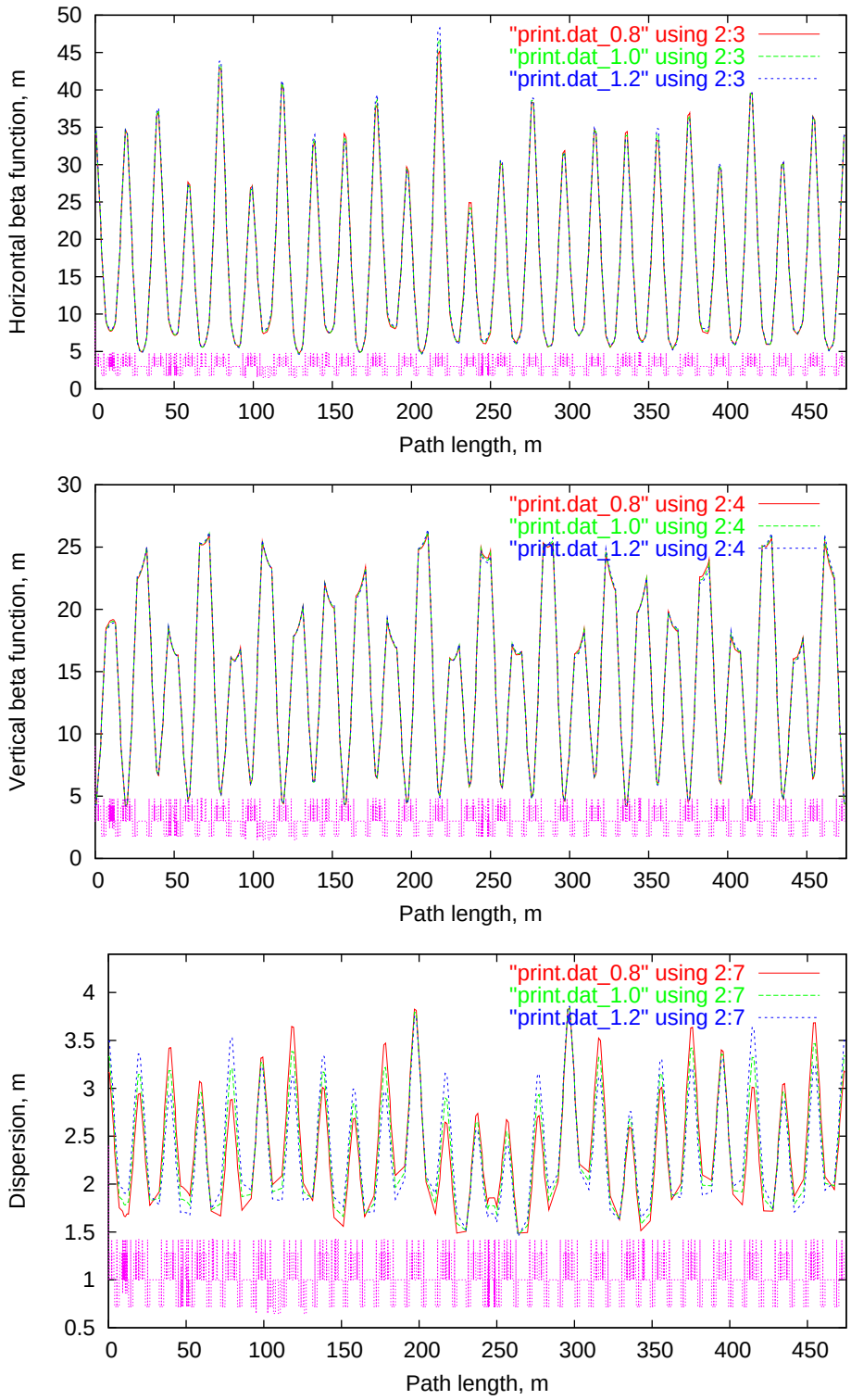

Figure 3: Booster β-functions and dispersion. Quadrupole correctors are on with $80\%,\ 100\%,\ 120\%$ of the strength.