

Quadrupole Strength Requirement for RHIC88 Lattice

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Table 1. Quadrupole strength(m^{-1}) requirement for the beta* variation
 QF=.09951 QD= .09965

BETA(m)	3	4	5	6	7	8	9	10
G1I(F)	.10166	.10037	.09387	.09222	.08842	.07864	.07801	.07742
G2I(D)	.16115	.15894	.15426	.15036	.14579	.13916	.13739	.13594
G3I(F)	.07411	.07373	.07475	.07373	.07347	.07490	.07448	.07408
G4I(D)	.08038	.09615	.10310	.10521	.10651	.10749	.10876	.10929
G5I(F)	.08577	.09636	.10221	.10815	.11166	.11278	.11502	.11648
G6I(D)	.09631	.10783	.11607	.12773	.13587	.13952	.14103	.14176
G7I(F)	.12253	.11644	.11422	.11427	.11415	.11530	.11379	.11295
G8I(D)	.10705	.10507	.10413	.10354	.10314	.10404	.10299	.10294
G9I(F)	.08437	.08438	.08396	.08351	.08323	.08346	.08288	.08288
G10(D)	.10161	.10042	.09389	.09220	.08833	.07863	.07729	.07646
G20(F)	.16110	.15906	.15437	.15037	.14588	.13916	.13778	.13678
G30(D)	.07409	.07374	.07478	.07379	.07355	.07494	.07461	.07395
G40(F)	.08030	.09602	.10313	.10522	.10655	.10749	.10900	.10988
G50(D)	.08564	.09635	.10230	.10831	.11175	.11295	.11410	.11440
G60(F)	.09607	.10715	.11552	.12770	.13536	.13956	.13787	.13597
G70(D)	.12248	.11653	.11433	.11415	.11437	.11522	.11446	.11427
G80(F)	.10708	.10514	.10421	.10351	.10325	.10401	.10358	.10387
G90(D)	.08458	.08456	.08404	.08338	.08333	.08333	.08455	.08689

Table 2. Quadrupole strength(m^{-1}) requirement for TUNE variation

Q=	29.1217	28.826	28.3162	27.8457
mux=	.2565	.25445	.2505	.2465
GF	.10015	.09951	.09831	.09707
GD	.10028	.09965	.09844	.09720
G1I(F)	.09219	.09222	.09210	.09225
G2I(D)	.15023	.15036	.15080	.15106
G3I(F)	.07404	.07373	.07341	.07292
G4I(D)	.10517	.10521	.10566	.10618
G5I(F)	.11056	.10815	.10524	.10401
G6I(D)	.12952	.12773	.12371	.12107
G7I(F)	.11778	.11427	.10826	.10308
G8I(D)	.10480	.10354	.10128	.09904
G9I(F)	.08348	.08351	.08333	.08291
G10(D)	.09215	.09220	.09214	.09223
G20(F)	.15016	.15037	.15078	.15106
G30(D)	.07399	.07379	.07338	.07292
G40(F)	.10507	.10522	.10552	.10605
G50(D)	.11055	.10831	.10527	.10400
G60(F)	.12938	.12770	.12363	.12072
G70(D)	.11783	.11415	.10823	.10317
G80(F)	.10487	.10351	.10133	.09916
G90(D)	.08358	.08338	.08327	.08303