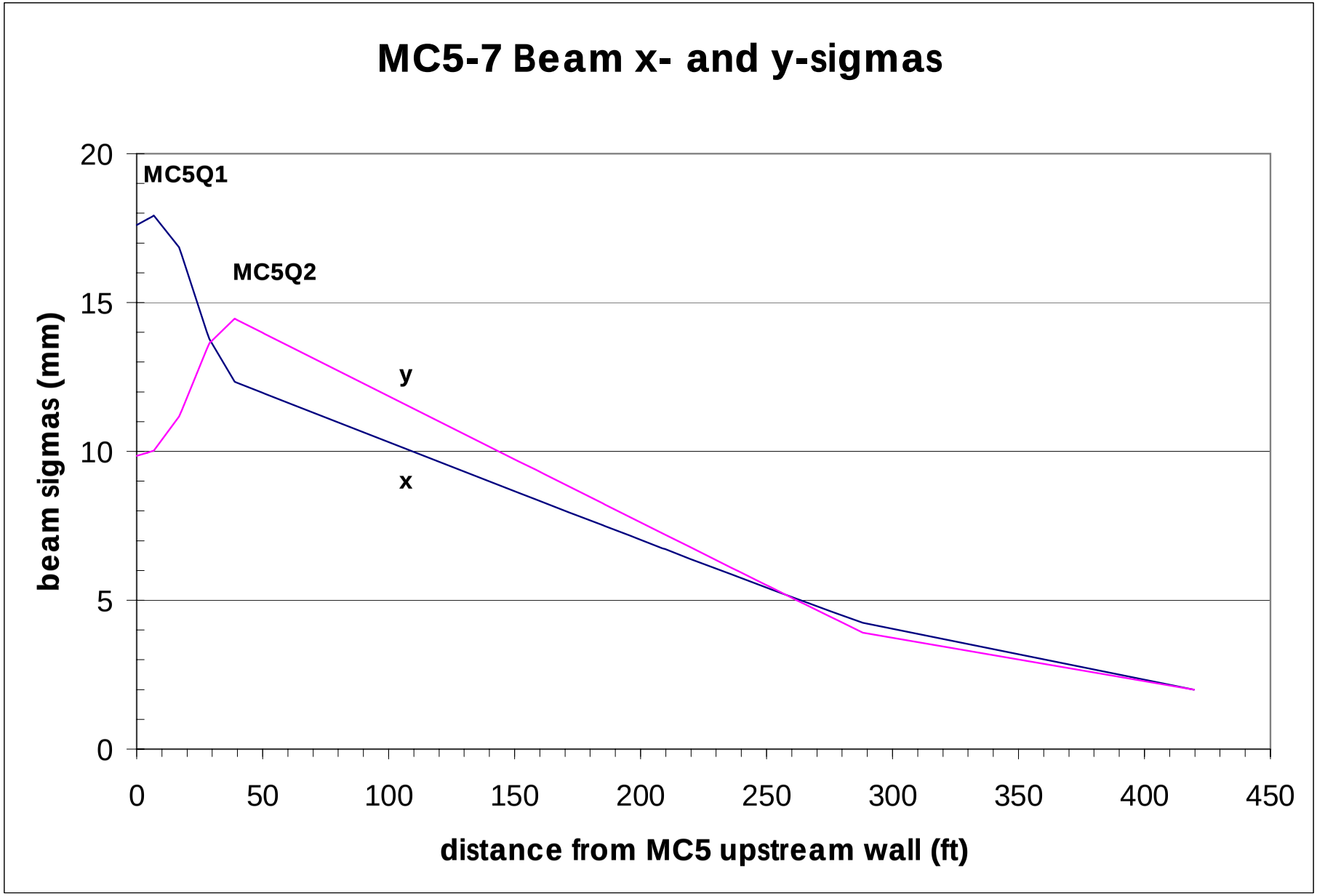
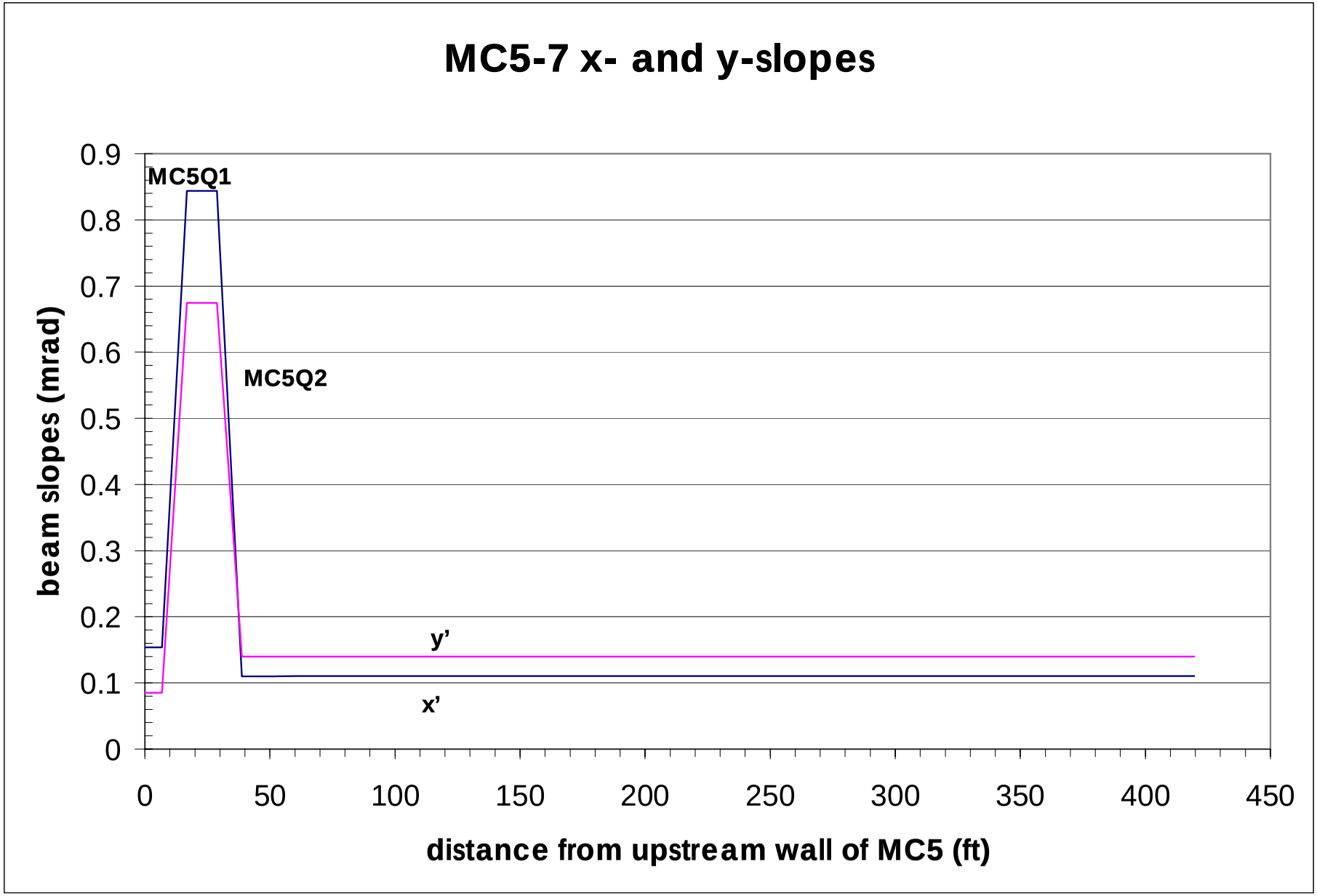
MCtune_1_120.dat

beam parameters from MC05 tune varying MC5Q1 and MC5Q2; referenced from the upstream wall of M

E.P.Hartouni 5/19/02

LENGTH	XBEAM	XPBEAM	YBEAM	YPBEAM
0	17.6	0.154	9.85	0.085
4.25	17.7989	0.154	9.95891	0.085
6.17	17.88876	0.154	10.00812	0.085
6.83	17.91965	0.154	10.02504	0.085
16.83	16.85271	0.84365	11.16495	0.67468
17.83	16.5956	0.84365	11.37057	0.67468
27.83	14.02448	0.84365	13.42675	0.67468
28.83	13.76738	0.84365	13.63238	0.67468
38.83	12.33715	0.10985	14.45987	0.13981
39.83	12.30407	0.10985	14.41733	0.13981
49.83003	11.97299	0.11012	13.99203	0.13981
50.83003	11.93985	0.11012	13.94951	0.13981
60.83006	11.6082	0.11039	13.52426	0.13981
151.50006	8.61311	0.11039	9.67213	0.13981
158.50006	8.38354	0.11039	9.37513	0.13981
161.70006	8.27871	0.11039	9.23939	0.13981
171.70009	7.95132	0.11057	8.81532	0.13981
174.90009	7.84663	0.11057	8.67966	0.13981
184.90009	7.52006	0.11057	8.25586	0.13981
185.90009	7.48745	0.11057	8.2135	0.13981
195.90009	7.16194	0.11057	7.78999	0.13981
198.70009	7.071	0.11057	7.67146	0.13981
208.70009	6.74694	0.11057	7.24834	0.13981
209.70009	6.71461	0.11057	7.20605	0.13981
219.70009	6.39204	0.11057	6.78335	0.13981
236.10009	5.86654	0.11057	6.09116	0.13981
238.90009	5.77732	0.11057	5.97314	0.13981
248.90012	5.45992	0.11069	5.55208	0.13981
251.70012	5.37143	0.11069	5.43433	0.13981
261.70012	5.05715	0.11069	5.01438	0.13981
264.98012	4.95472	0.11069	4.87687	0.13981
274.98012	4.64479	0.11069	4.45849	0.13981
278.26012	4.54399	0.11069	4.3216	0.13981
288.26012	4.23969	0.11069	3.90549	0.13981
419.60012	2.00002	0.11069	2	0.13981


MC5-7 Beam x- and y-sigmas
MC5Q1
MC5Q2
y
x
beam sigmas (mm)
distance from MC5 upstream wall (ft)
0
5
10
15
20
0
50
100
150
200
250
300
350
400
450


MC5-7 x- and y-slopes
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
beam slopes (mrad)
MC5Q1
MC5Q2
y'
x'
0
50
100
150
200
250
300
350
400
450
distance from upstream wall of MC5 (ft)

MC5,6,7 beamline magnet elements for E907

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positions are referenced to a 120 GeV/c beam

	length	z from MC5 usw	x-position	y-position	y-position	z-position	roll
MC5_USW		0.00 FT	0	49.00 IN	4.08	1220.00 FT	0
MC5Q1 us		6.83 FT	0	49.00 IN	4.08	1226.83 FT	0
MC5Q1 ds	10.00 FT	16.83 FT	0	49.00 IN	4.08	1236.83 FT	0
MC5Q1_2 us		17.83 FT	0	49.00 IN	4.08	1237.83 FT	0
MC5Q1_2 ds	10.00 FT	27.83 FT	0	49.00 IN	4.08	1247.83 FT	0
MC5Q2 us		28.83 FT	0	49.00 IN	4.08	1248.83 FT	0
MC5Q2 ds	10.00 FT	38.83 FT	0	49.00 IN	4.08	1258.83 FT	0
MC5D1 us		39.83 FT	0	49.00 IN	4.08	1259.83 FT	0
MC5D1 ds	10.00 FT	49.83 FT	0	49.50 IN	4.13	1269.83 FT	0
MC5D2 us		50.83 FT	0	49.60 IN	4.13	1270.83 FT	0
MC5D2 ds	10.00 FT	60.83 FT	0	51.12 IN	4.26	1280.83 FT	0
MC5_DSW		151.50 FT	0	69.50 IN	5.79	1371.49 FT	0
MC6_USW		151.50 FT	0	69.50 IN	5.79	1371.49 FT	0
MC_T1		158.50 FT	0	70.92 IN	5.91	1378.49 FT	0
MC6D1 us		161.70 FT	0	71.56 IN	5.96	1381.68 FT	0
MC6D1 ds	10.00 FT	171.70 FT	0	73.08 IN	6.09	1391.68 FT	0
M6Q1 us		174.90 FT	0	73.41 IN	6.12	1394.88 FT	0
M6Q1 ds	10.00 FT	184.90 FT	0	74.42 IN	6.20	1404.88 FT	0
M6Q2 us		185.90 FT	0	74.52 IN	6.21	1405.88 FT	0
M6Q2 ds	10.00 FT	195.90 FT	0	75.54 IN	6.29	1415.88 FT	0
M6Q3 us		198.70 FT	0	75.82 IN	6.32	1418.68 FT	0
M6Q3 ds	10.00 FT	208.70 FT	0	76.83 IN	6.40	1428.68 FT	0
M6Q4 us		209.70 FT	0	76.94 IN	6.41	1429.68 FT	0
M6Q4 ds	10.00 FT	219.70 FT	0	77.95 IN	6.50	1439.68 FT	0
MC6C		236.10 FT	0	79.61 IN	6.63	1456.08 FT	0
M6D2 us		238.90 FT	0	79.89 IN	6.66	1458.88 FT	0
M6D2 ds	10.00 FT	248.90 FT	0	80.40 IN	6.70	1468.88 FT	0
M6Q5 us		251.70 FT	0	80.40 IN	6.70	1471.68 FT	0
M6Q5 ds	10.00 FT	261.70 FT	0	80.40 IN	6.70	1481.68 FT	0
M6Q6 us		264.98 FT	0	80.40 IN	6.70	1484.96 FT	0
M6Q6 ds	10.00 FT	274.98 FT	0	80.40 IN	6.70	1494.96 FT	0
M6Q7 us		278.26 FT	0	80.40 IN	6.70	1498.24 FT	0
M6Q7 ds	10.00 FT	288.26 FT	0	80.40 IN	6.70	1508.24 FT	0
MCT2		419.60 FT	0	80.40 IN	6.70	1639.58 FT	0

pitch	pitch	yaw
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.968 DEG	16.888	0 MR
0.968 DEG	16.888	0 MR
0.968 DEG	16.888	0 MR
0.968 DEG	16.888	0 MR
0.968 DEG	16.888	0 MR
0.968 DEG	16.888	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.484 DEG	8.444	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR
0.000 DEG	0	0 MR