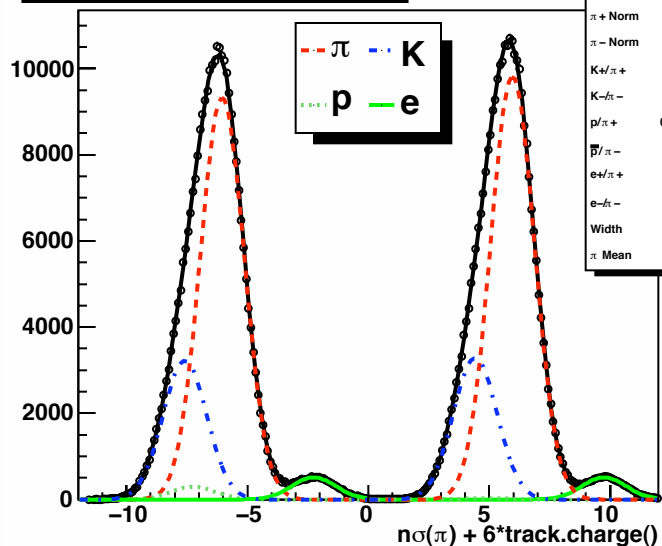


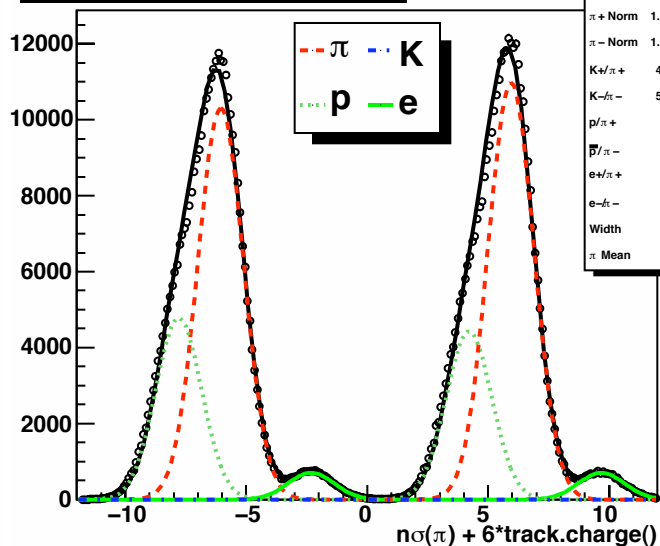
p_T 2.00 – 3.18, $|\eta|$ 2.00 – 2.50

χ^2 / ndf	200.9 / 225
Prob	0.8747
$\pi + \text{Norm}$	9810
$\pi - \text{Norm}$	9334
$K + \pi +$	0.3345
$K - \pi -$	0.3448
$p / \pi +$	0.003468
$\bar{p} / \pi -$	0.03138
$e + \pi +$	0.025
$e - \pi -$	0.05492
Width	0.9074
π Mean	-0.03848



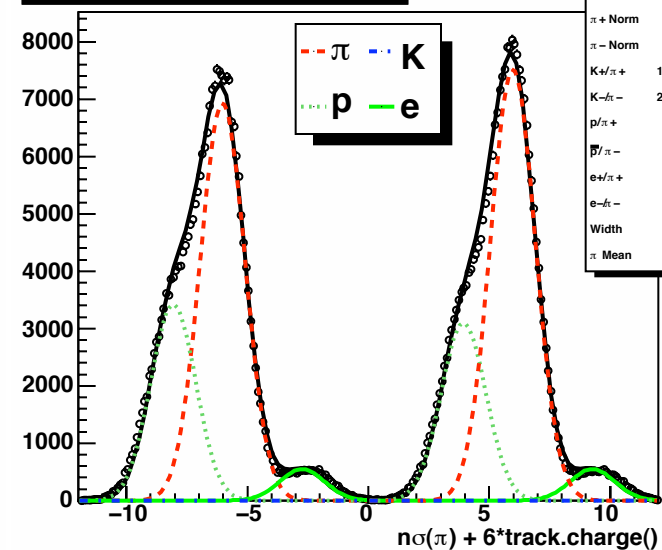
p_T 2.00 – 3.18, $|\eta|$ 2.50 – 3.00

χ^2 / ndf	1993 / 228
Prob	0
$\pi + \text{Norm}$	1.098e+04
$\pi - \text{Norm}$	1.031e+04
$K + \pi +$	4.242e-09
$K - \pi -$	5.491e-10
$p / \pi +$	0.4032
$\bar{p} / \pi -$	0.4638
$e + \pi +$	0.025
$e - \pi -$	0.06787
Width	0.945
π Mean	-0.05282



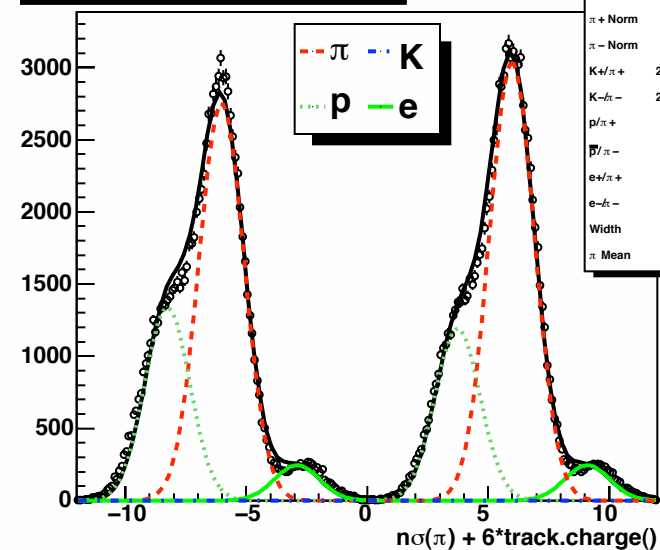
p_T 2.00 – 3.18, $|\eta|$ 3.00 – 3.50

χ^2 / ndf	2840 / 229
Prob	0
$\pi + \text{Norm}$	7520
$\pi - \text{Norm}$	6936
$K + \pi +$	1.433e-10
$K - \pi -$	2.489e-09
$p / \pi +$	0.4117
$\bar{p} / \pi -$	0.4936
$e + \pi +$	0.025
$e - \pi -$	0.07919
Width	0.9261
π Mean	-0.02333



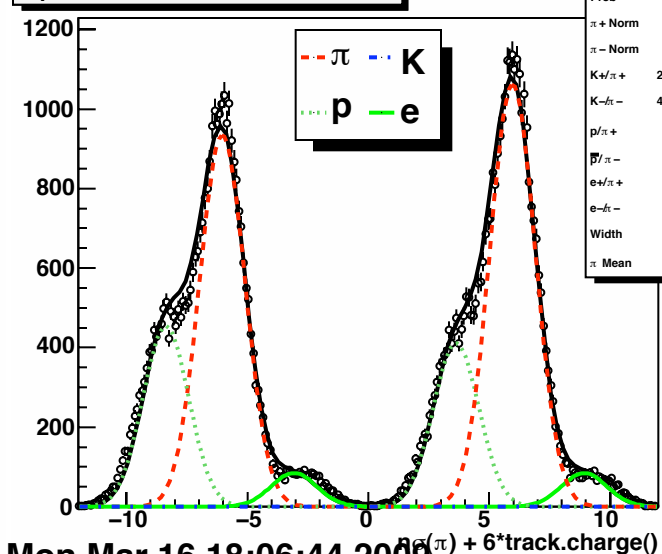
p_T 2.00 – 3.18, $|\eta|$ 3.50 – 4.00

χ^2 / ndf	1842 / 229
Prob	0
$\pi + \text{Norm}$	3035
$\pi - \text{Norm}$	2750
$K + \pi +$	2.229e-11
$K - \pi -$	2.497e-10
$p / \pi +$	0.3926
$\bar{p} / \pi -$	0.4863
$e + \pi +$	0.025
$e - \pi -$	0.08877
Width	0.9337
π Mean	-0.0172



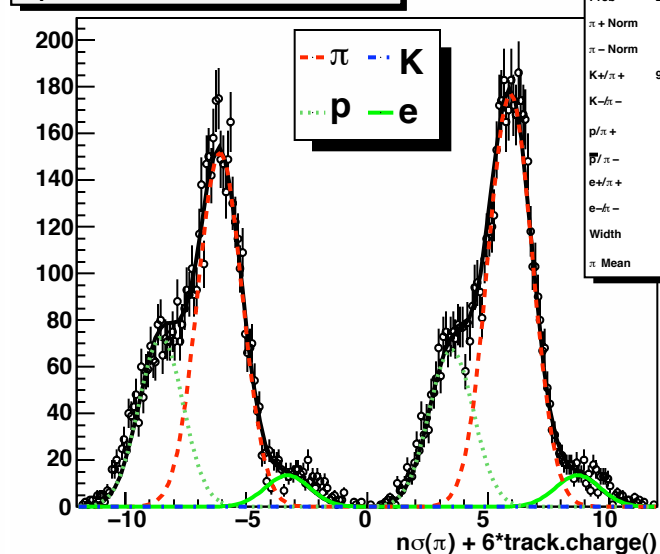
p_T 2.00 – 3.18, $|\eta|$ 4.00 – 4.50

χ^2 / ndf	902.5 / 229
Prob	0
$\pi + \text{Norm}$	1061
$\pi - \text{Norm}$	934.7
$K + \pi +$	2.606e-14
$K - \pi -$	4.123e-13
$p / \pi +$	0.3869
$\bar{p} / \pi -$	0.4856
$e + \pi +$	0.025
$e - \pi -$	0.09044
Width	0.9421
π Mean	-0.03606

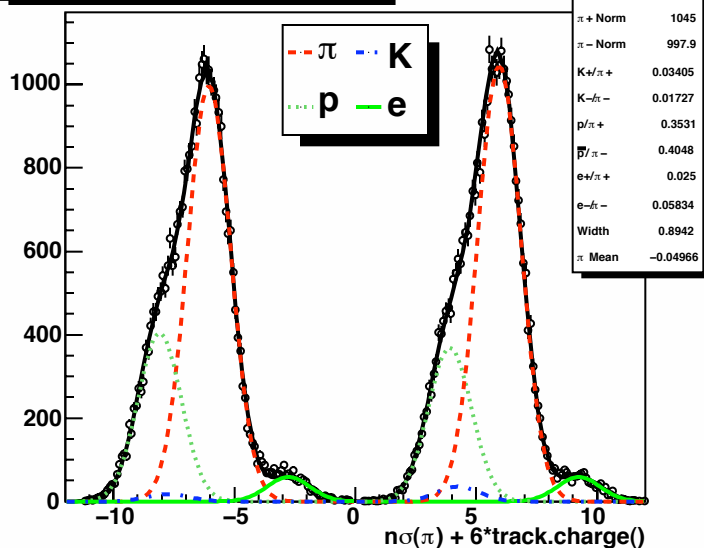


p_T 2.00 – 3.18, $|\eta|$ 4.50 – 4.90

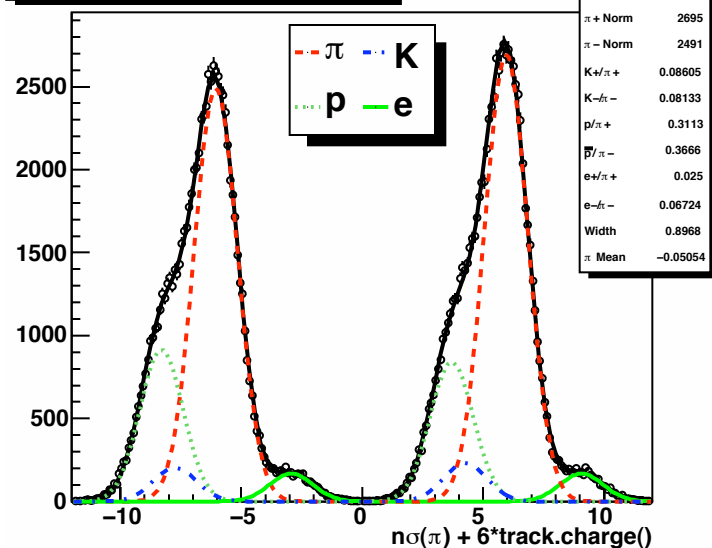
χ^2 / ndf	333.9 / 214
Prob	2.872e-07
$\pi + \text{Norm}$	177
$\pi - \text{Norm}$	151.7
$K + \pi +$	9.641e-13
$K - \pi -$	3.74e-12
$p / \pi +$	0.3805
$\bar{p} / \pi -$	0.4777
$e + \pi +$	0.025
$e - \pi -$	0.08873
Width	0.9168
π Mean	-0.08568



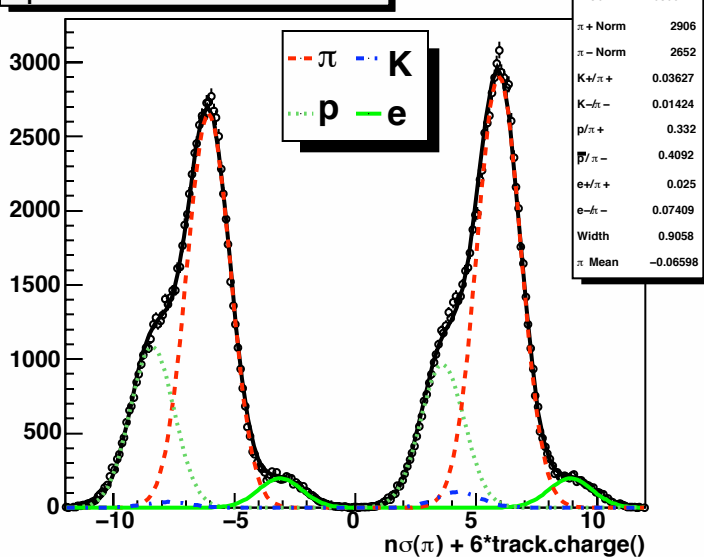
p_T 3.18 – 4.56, $|\eta|$ 3.18 – 3.50



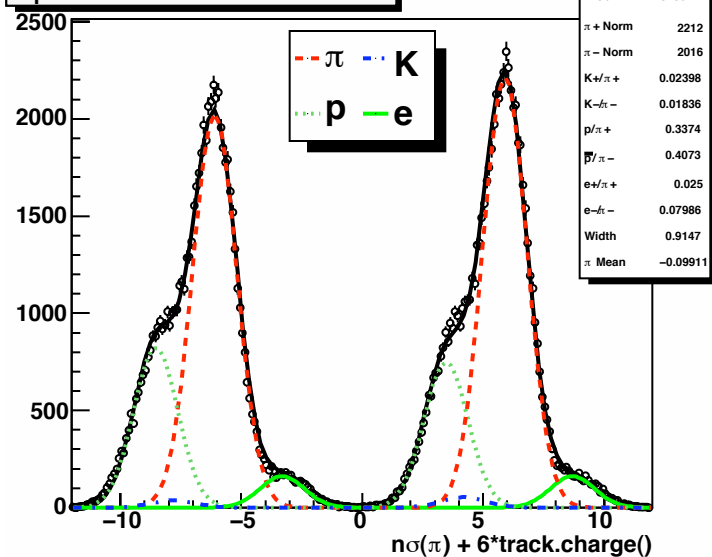
p_T 3.18 – 4.56, $|\eta|$ 3.50 – 4.00



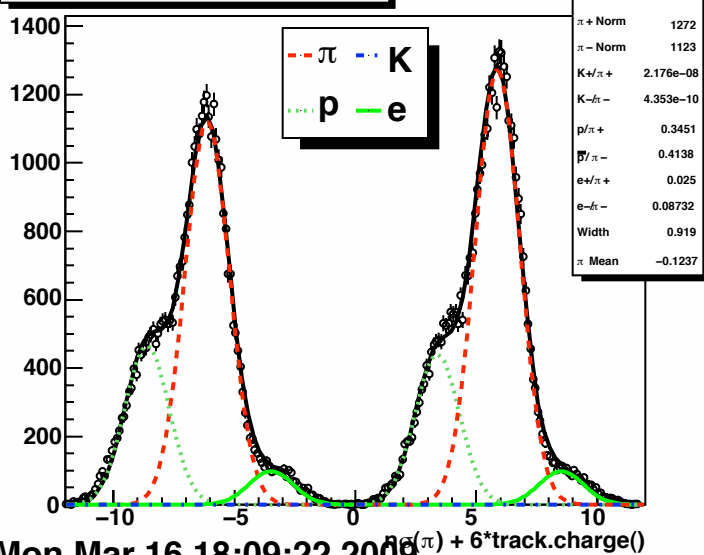
p_T 3.18 – 4.56, $|\eta|$ 4.00 – 4.50



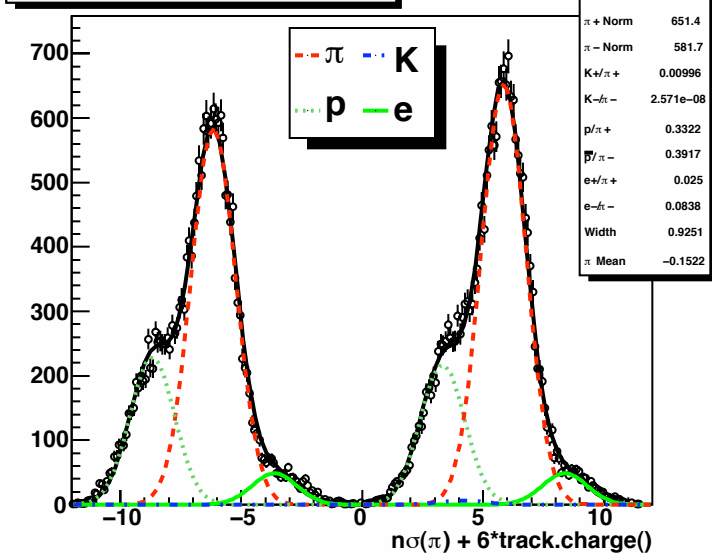
p_T 3.18 – 4.56, $|\eta|$ 4.50 – 5.00



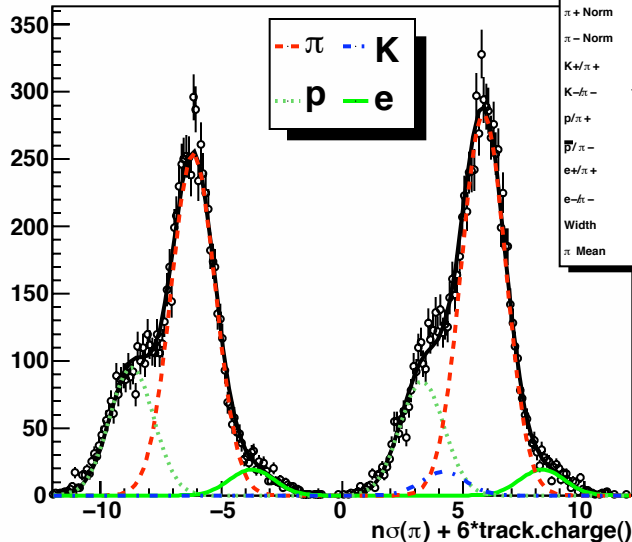
p_T 3.18 – 4.56, $|\eta|$ 5.00 – 5.50



p_T 3.18 – 4.56, $|\eta|$ 5.50 – 6.00

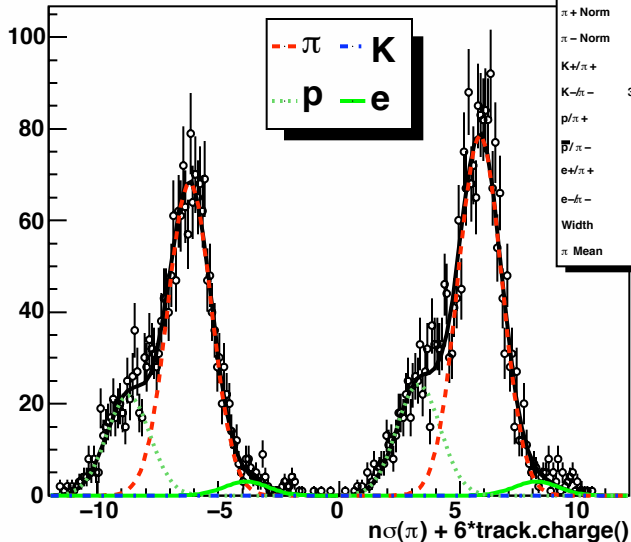


p_T 3.18 – 4.56, l_{pl} 6.00 – 6.50



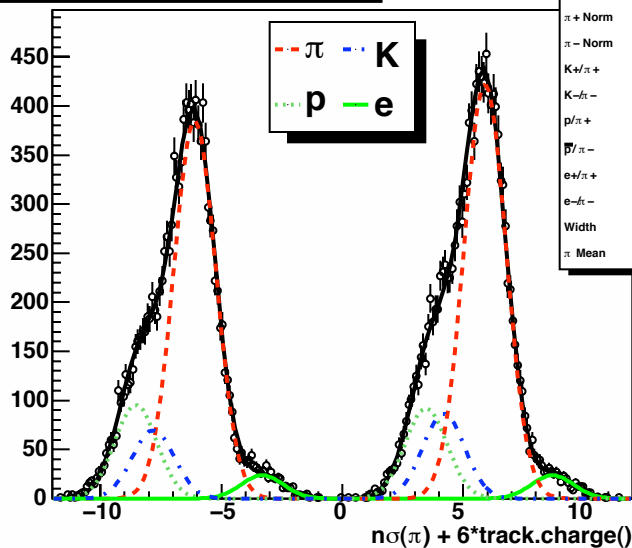
χ^2 / ndf	271.2 / 210
Prob	0.002802
$\pi + \text{Norm}$	283.6
$\pi - \text{Norm}$	253.2
$K + \pi +$	0.06219
$K - \pi -$	1.231e-10
$p / \pi +$	0.2982
$\overline{p} / \pi -$	0.3754
$e + \pi +$	0.025
$e - \pi -$	0.07612
Width	0.9149
π Mean	-0.1613

p_T 3.18 – 4.56, l_{pl} 6.50 – 7.02



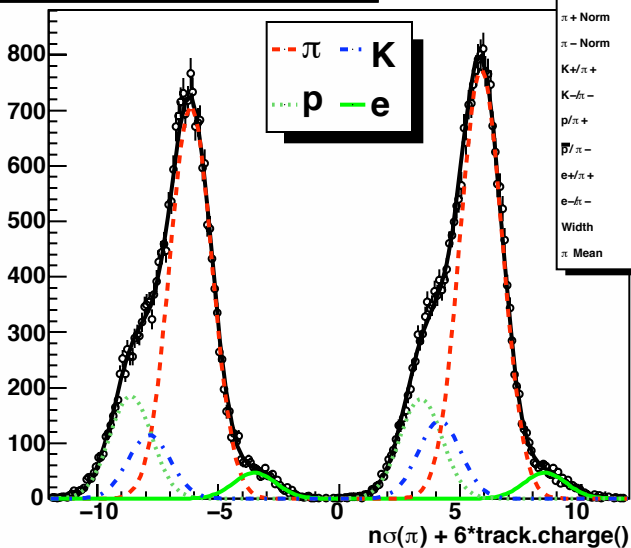
χ^2 / ndf	215.5 / 187
Prob	0.07477
$\pi + \text{Norm}$	78.48
$\pi - \text{Norm}$	68.21
$K + \pi +$	1.53e-10
$K - \pi -$	3.484e-11
$p / \pi +$	0.3085
$\overline{p} / \pi -$	0.3185
$e + \pi +$	0.025
$e - \pi -$	0.04482
Width	0.9019
π Mean	-0.1825

p_T 4.56 – 6.32, l_{pl} 4.56 – 5.00



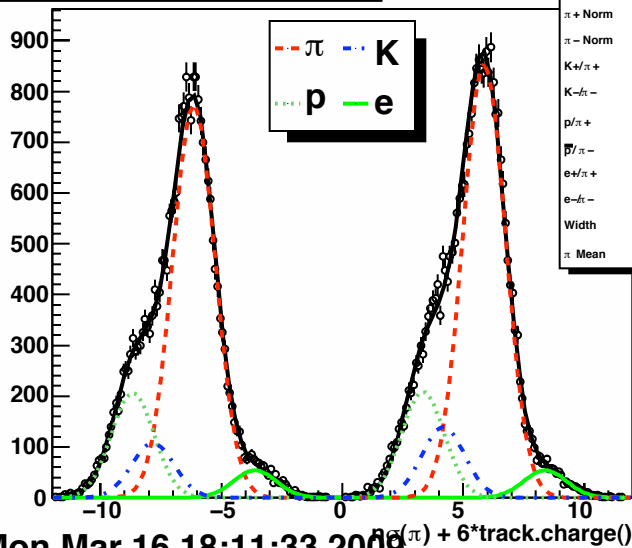
χ^2 / ndf	178.8 / 196
Prob	0.806
$\pi + \text{Norm}$	422.4
$\pi - \text{Norm}$	385
$K + \pi +$	0.2042
$K - \pi -$	0.1808
$p / \pi +$	0.2177
$\overline{p} / \pi -$	0.248
$e + \pi +$	0.025
$e - \pi -$	0.06143
Width	0.8692
π Mean	-0.1013

p_T 4.56 – 6.32, l_{pl} 5.00 – 5.50



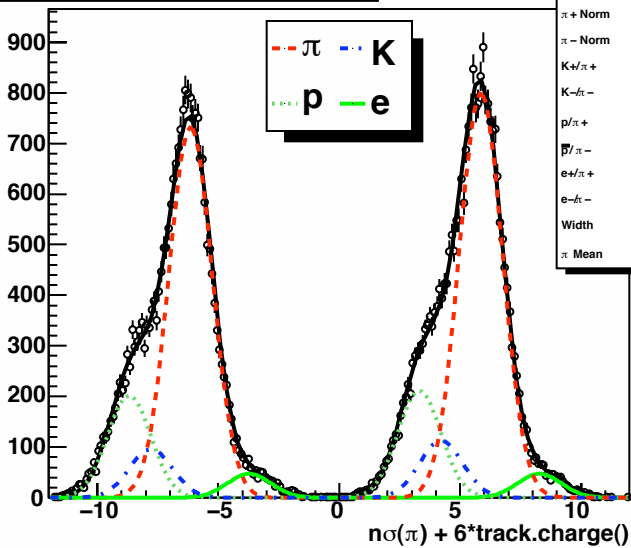
χ^2 / ndf	237.7 / 217
Prob	0.1598
$\pi + \text{Norm}$	774.5
$\pi - \text{Norm}$	705.7
$K + \pi +$	0.1812
$K - \pi -$	0.1624
$p / \pi +$	0.2323
$\overline{p} / \pi -$	0.2615
$e + \pi +$	0.025
$e - \pi -$	0.06604
Width	0.8735
π Mean	-0.1308

p_T 4.56 – 6.32, l_{pl} 5.50 – 6.00



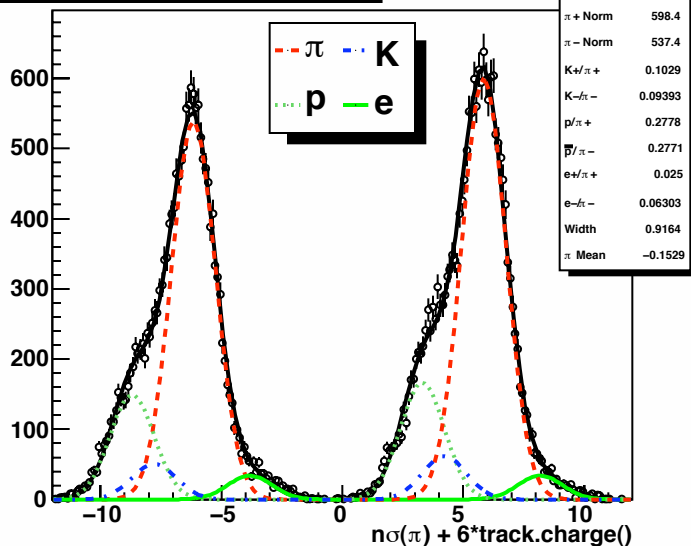
χ^2 / ndf	274.5 / 213
Prob	0.002839
$\pi + \text{Norm}$	851.8
$\pi - \text{Norm}$	771
$K + \pi +$	0.1631
$K - \pi -$	0.1389
$p / \pi +$	0.2445
$\overline{p} / \pi -$	0.267
$e + \pi +$	0.025
$e - \pi -$	0.06973
Width	0.8845
π Mean	-0.1377

p_T 4.56 – 6.32, l_{pl} 6.00 – 6.50

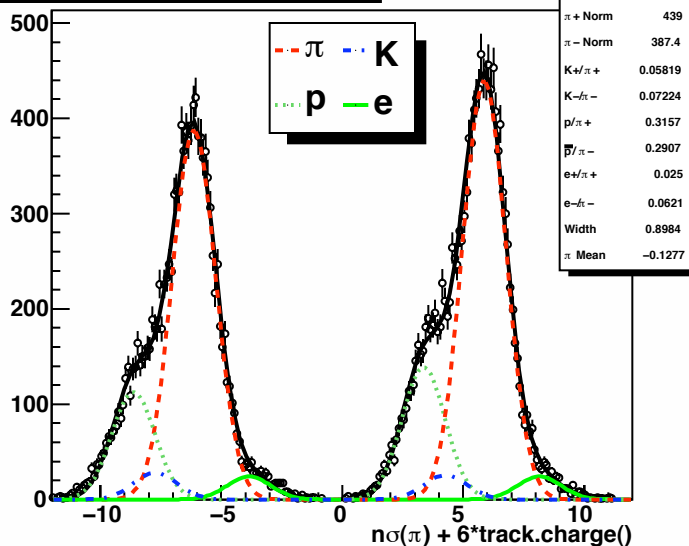


χ^2 / ndf	275.1 / 214
Prob	0.003055
$\pi + \text{Norm}$	799.5
$\pi - \text{Norm}$	732.3
$K + \pi +$	0.1404
$K - \pi -$	0.1306
$p / \pi +$	0.2637
$\overline{p} / \pi -$	0.2755
$e + \pi +$	0.025
$e - \pi -$	0.06451
Width	0.8957
π Mean	-0.1416

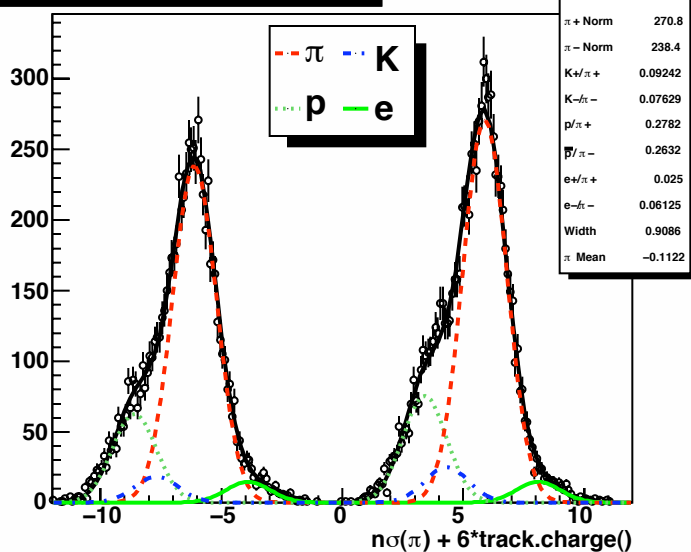
p_T 4.56 – 6.32, $|\eta|$ 6.50 – 7.00



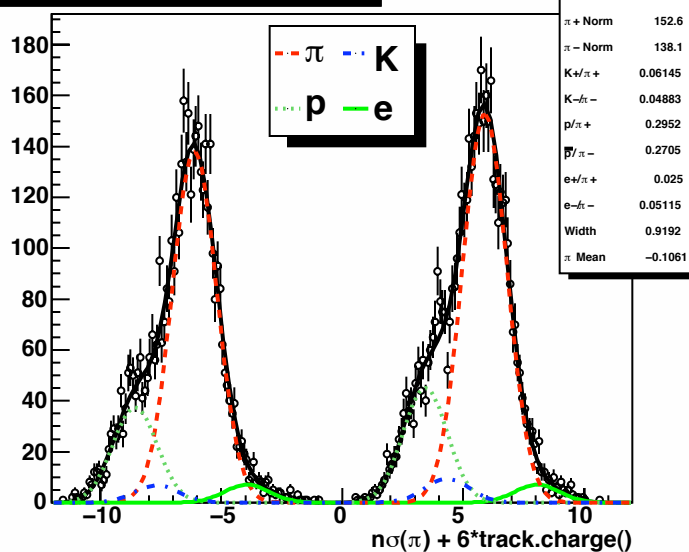
p_T 4.56 – 6.32, $|\eta|$ 7.00 – 7.50



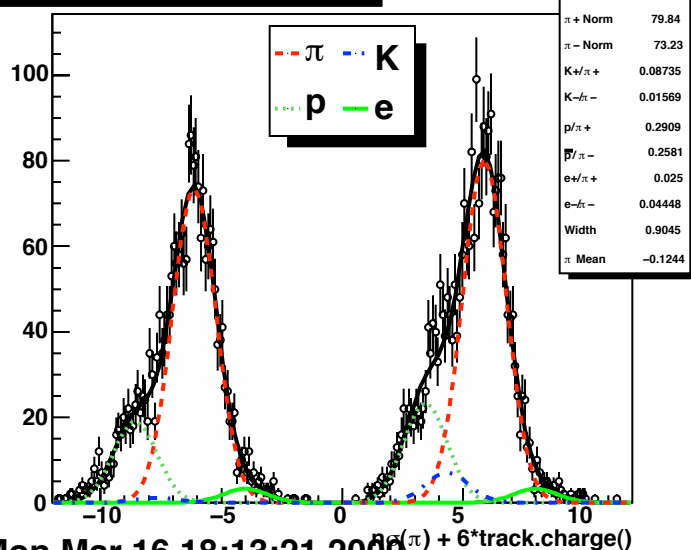
p_T 4.56 – 6.32, $|\eta|$ 7.50 – 8.00



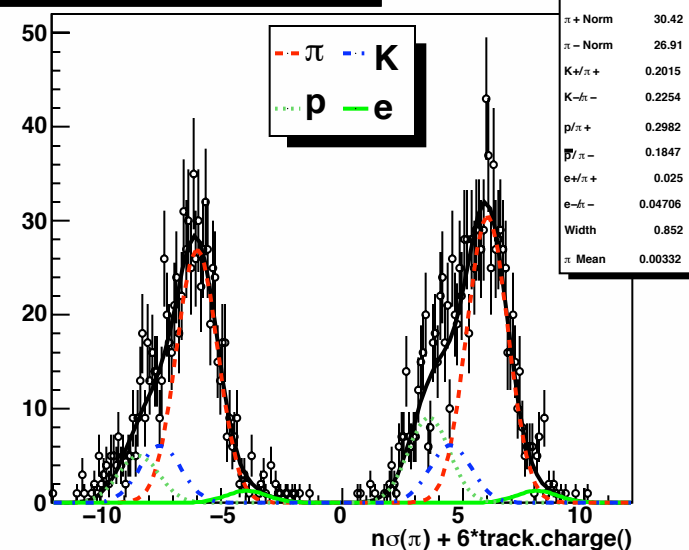
p_T 4.56 – 6.32, $|\eta|$ 8.00 – 8.50



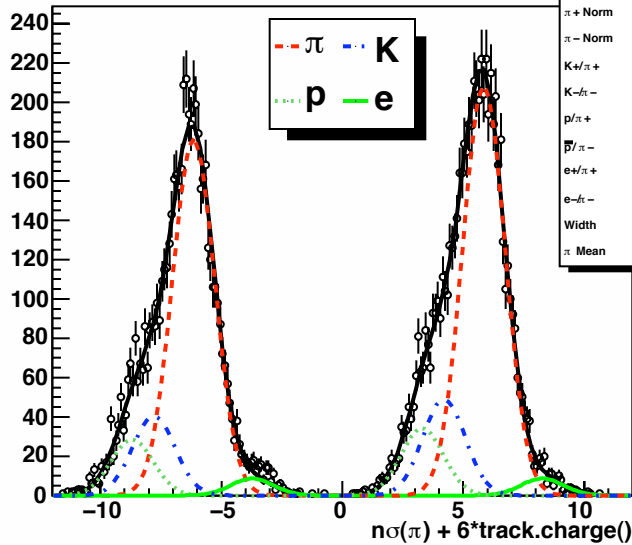
p_T 4.56 – 6.32, $|\eta|$ 8.50 – 9.00



p_T 4.56 – 6.32, $|\eta|$ 9.00 – 9.73

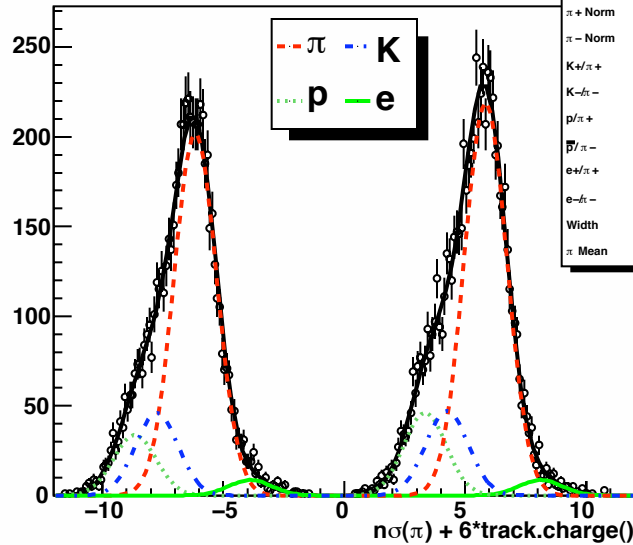


p_T 6.32 – 8.80, $|\eta|$ 6.32 – 7.00



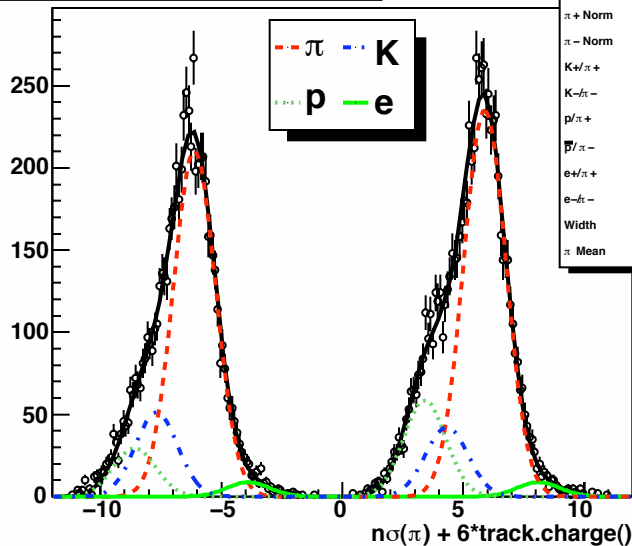
χ^2 / ndf	197.7 / 187
Prob	0.2824
$\pi + \text{Norm}$	207.8
$\pi - \text{Norm}$	180.7
$K + \pi +$	0.2348
$K - \pi -$	0.2236
$p / \pi +$	0.1642
$\overline{p} / \pi -$	0.1573
$e + \pi +$	0.025
$e - \pi -$	0.04773
Width	0.878
π Mean	-0.1497

p_T 6.32 – 8.80, $|\eta|$ 7.00 – 7.50



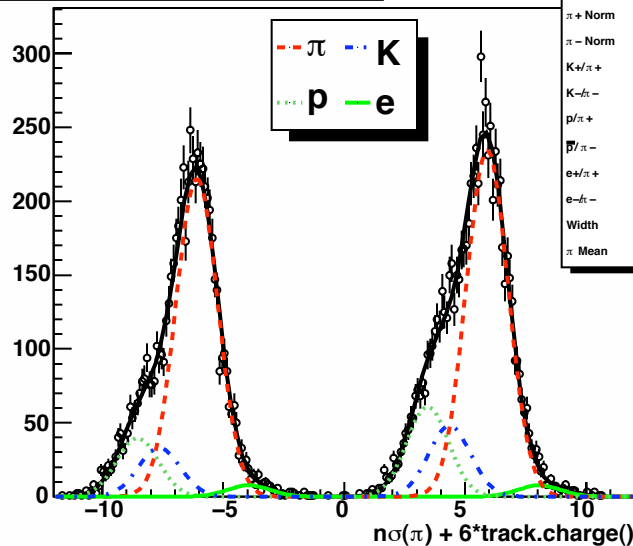
χ^2 / ndf	167.2 / 181
Prob	0.7603
$\pi + \text{Norm}$	218.7
$\pi - \text{Norm}$	201.7
$K + \pi +$	0.2156
$K - \pi -$	0.2283
$p / \pi +$	0.2106
$\overline{p} / \pi -$	0.1666
$e + \pi +$	0.025
$e - \pi -$	0.04283
Width	0.8792
π Mean	-0.1534

p_T 6.32 – 8.80, $|\eta|$ 7.50 – 8.00



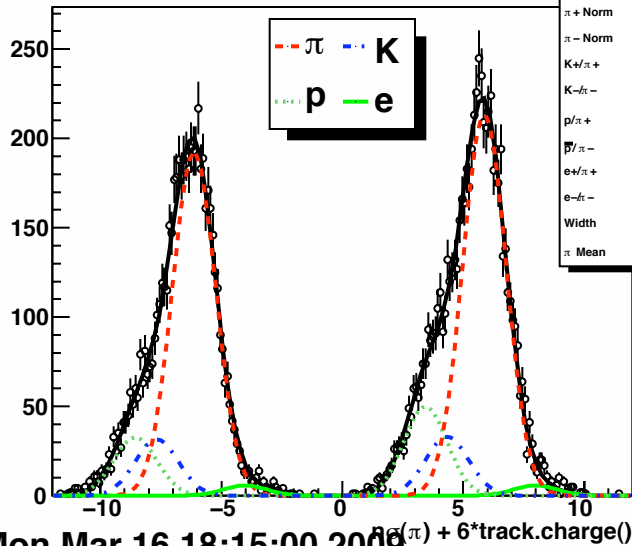
χ^2 / ndf	206.5 / 180
Prob	0.08588
$\pi + \text{Norm}$	235.3
$\pi - \text{Norm}$	210.4
$K + \pi +$	0.1795
$K - \pi -$	0.2429
$p / \pi +$	0.2488
$\overline{p} / \pi -$	0.1405
$e + \pi +$	0.025
$e - \pi -$	0.04144
Width	0.8759
π Mean	-0.1113

p_T 6.32 – 8.80, $|\eta|$ 8.00 – 8.50



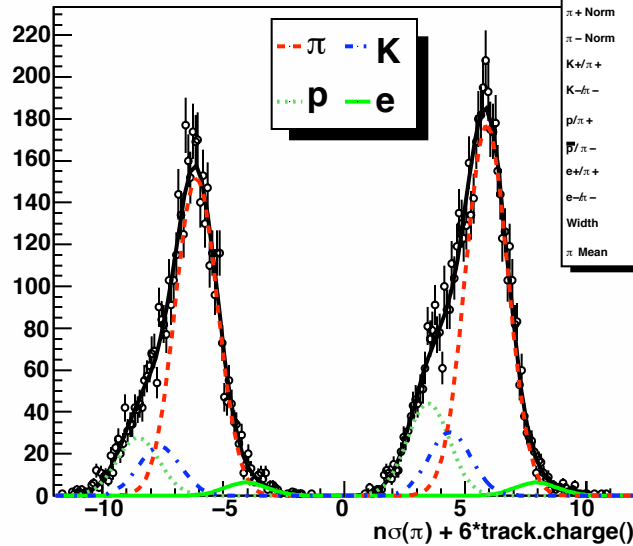
χ^2 / ndf	229.6 / 186
Prob	0.01627
$\pi + \text{Norm}$	234.6
$\pi - \text{Norm}$	215.5
$K + \pi +$	0.2049
$K - \pi -$	0.153
$p / \pi +$	0.2594
$\overline{p} / \pi -$	0.1833
$e + \pi +$	0.025
$e - \pi -$	0.03553
Width	0.8673
π Mean	-0.08806

p_T 6.32 – 8.80, $|\eta|$ 8.50 – 9.00



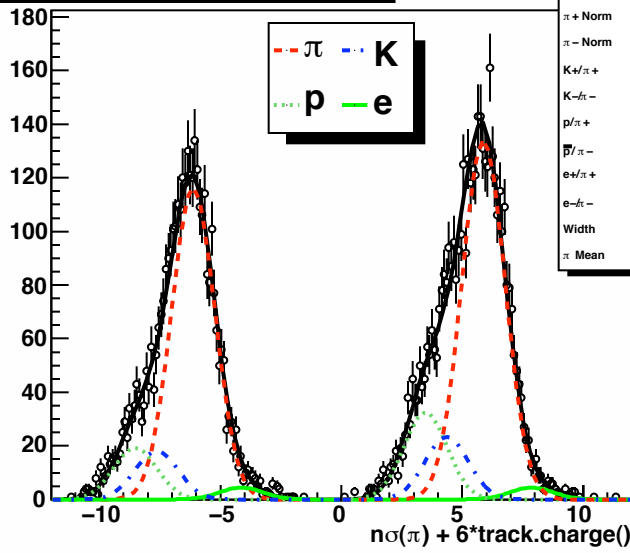
χ^2 / ndf	191.1 / 180
Prob	0.2707
$\pi + \text{Norm}$	213.4
$\pi - \text{Norm}$	192
$K + \pi +$	0.1542
$K - \pi -$	0.1638
$p / \pi +$	0.2332
$\overline{p} / \pi -$	0.1699
$e + \pi +$	0.025
$e - \pi -$	0.03008
Width	0.8976
π Mean	-0.1272

p_T 6.32 – 8.80, $|\eta|$ 9.00 – 9.50



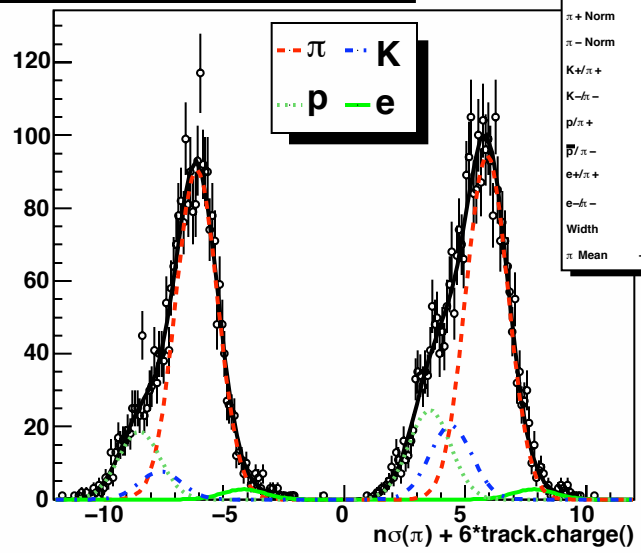
χ^2 / ndf	204.7 / 179
Prob	0.09109
$\pi + \text{Norm}$	176.9
$\pi - \text{Norm}$	151.5
$K + \pi +$	0.1713
$K - \pi -$	0.155
$p / \pi +$	0.2496
$\overline{p} / \pi -$	0.1824
$e + \pi +$	0.025
$e - \pi -$	0.04139
Width	0.8721
π Mean	-0.108

p_T 6.32 – 8.80, $|\eta|$ 9.50 – 10.00



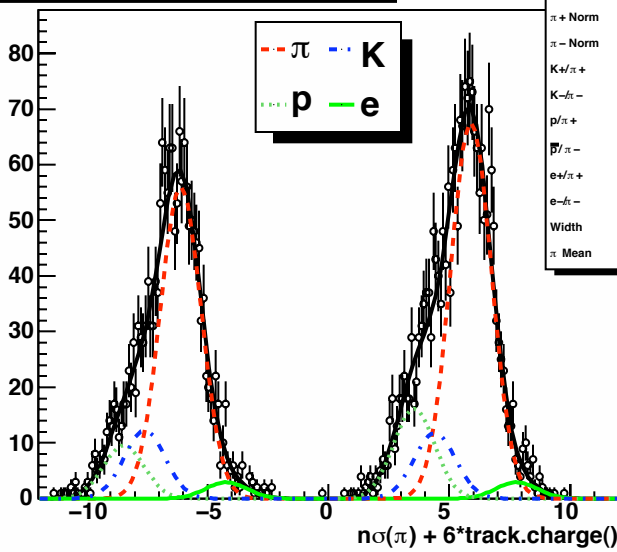
χ^2 / ndf	179.2 / 171
Prob	0.3177
$\pi + \text{Norm}$	133.2
$\pi - \text{Norm}$	115.7
$K + \pi +$	0.1746
$K - \pi -$	0.1551
$p / \pi +$	0.2423
$\overline{p} / \pi -$	0.166
$e + \pi +$	0.03513
$e - \pi -$	0.03818
Width	0.8988
π Mean	-0.1229

p_T 6.32 – 8.80, $|\eta|$ 10.00 – 10.50



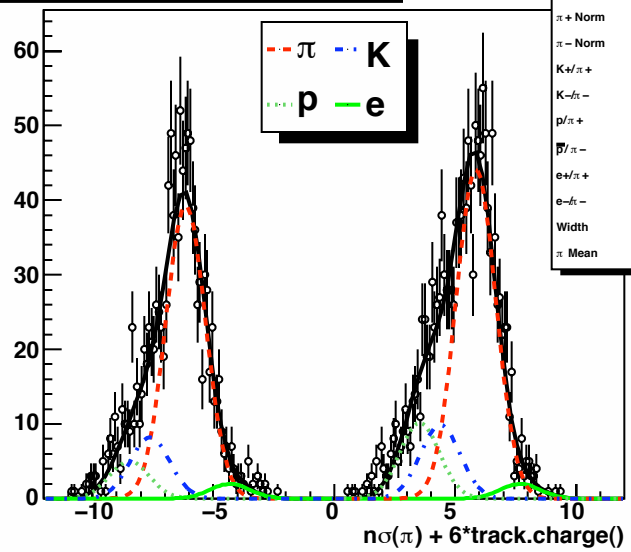
χ^2 / ndf	152.4 / 167
Prob	0.784
$\pi + \text{Norm}$	94.42
$\pi - \text{Norm}$	90.43
$K + \pi +$	0.2157
$K - \pi -$	0.08472
$p / \pi +$	0.2595
$\overline{p} / \pi -$	0.2052
$e + \pi +$	0.025
$e - \pi -$	0.03093
Width	0.8697
π Mean	-0.09452

p_T 6.32 – 8.80, $|\eta|$ 10.50 – 11.00



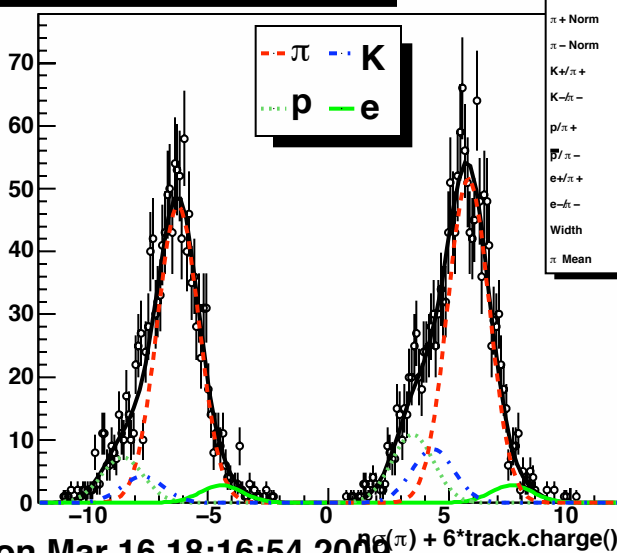
χ^2 / ndf	153.5 / 160
Prob	0.63
$\pi + \text{Norm}$	67.39
$\pi - \text{Norm}$	55.91
$K + \pi +$	0.175
$K - \pi -$	0.2192
$p / \pi +$	0.2392
$\overline{p} / \pi -$	0.1702
$e + \pi +$	0.025
$e - \pi -$	0.05248
Width	0.8484
π Mean	-0.1022

p_T 6.32 – 8.80, $|\eta|$ 11.00 – 11.50



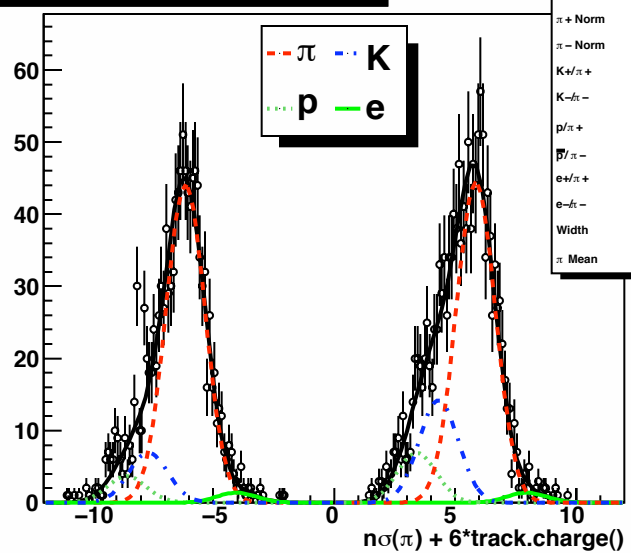
χ^2 / ndf	174.8 / 146
Prob	0.05224
$\pi + \text{Norm}$	44.14
$\pi - \text{Norm}$	39.24
$K + \pi +$	0.2238
$K - \pi -$	0.2098
$p / \pi +$	0.2298
$\overline{p} / \pi -$	0.1282
$e + \pi +$	0.025
$e - \pi -$	0.05008
Width	0.8209
π Mean	-0.1378

p_T 6.32 – 8.80, $|\eta|$ 11.50 – 13.55



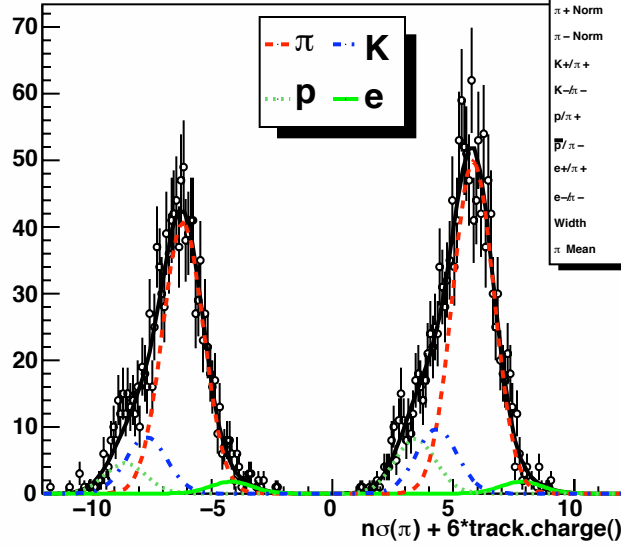
χ^2 / ndf	155.2 / 153
Prob	0.4362
$\pi + \text{Norm}$	51.55
$\pi - \text{Norm}$	47.25
$K + \pi +$	0.1654
$K - \pi -$	0.08887
$p / \pi +$	0.2106
$\overline{p} / \pi -$	0.1527
$e + \pi +$	0.025
$e - \pi -$	0.05839
Width	0.8653
π Mean	-0.2073

p_T 8.80 – 12.84, $|\eta|$ 8.80 – 9.50



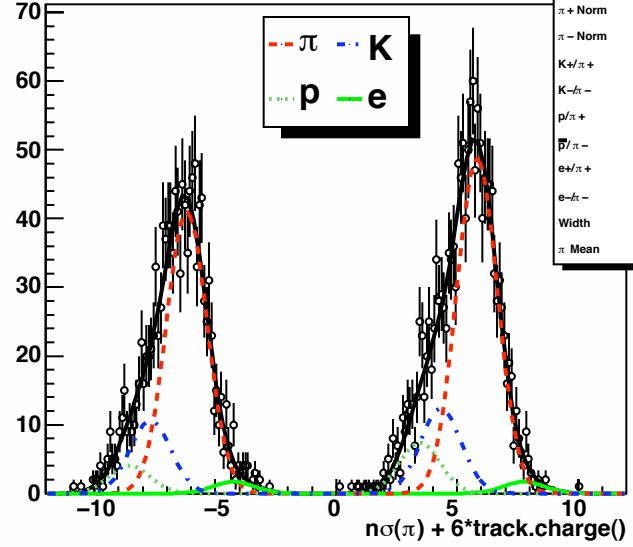
χ^2 / ndf	141.4 / 146
Prob	0.5926
$\pi + \text{Norm}$	44.34
$\pi - \text{Norm}$	43.99
$K + \pi +$	0.3209
$K - \pi -$	0.1577
$p / \pi +$	0.1554
$\overline{p} / \pi -$	0.0839
$e + \pi +$	0.025
$e - \pi -$	0.03173
Width	0.8099
π Mean	-0.1462

p_T 8.80 – 12.84, $|p_l|$ 9.50 – 10.00



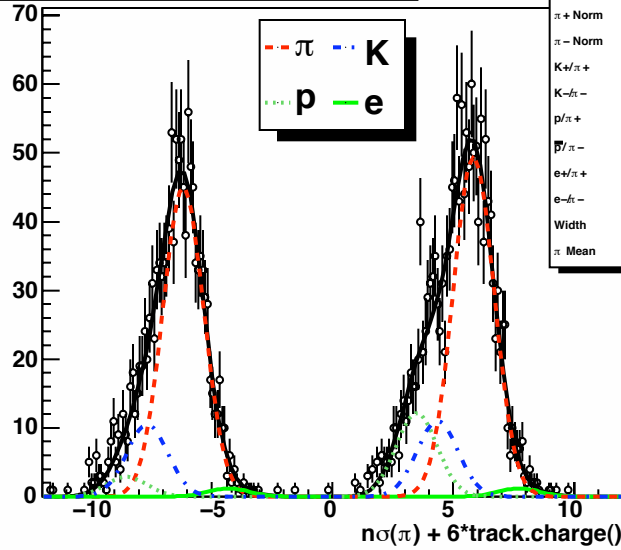
χ^2 / ndf	112.3 / 141
Prob	0.9642
$\pi + \text{Norm}$	49.81
$\pi - \text{Norm}$	40.59
$K + \pi +$	0.1937
$K - \pi -$	0.2081
$p / \pi +$	0.1634
$\overline{p} / \pi -$	0.112
$e + \pi +$	0.025
$e - \pi -$	0.04359
Width	0.8486
π Mean	-0.1695

p_T 8.80 – 12.84, $|p_l|$ 10.00 – 10.50



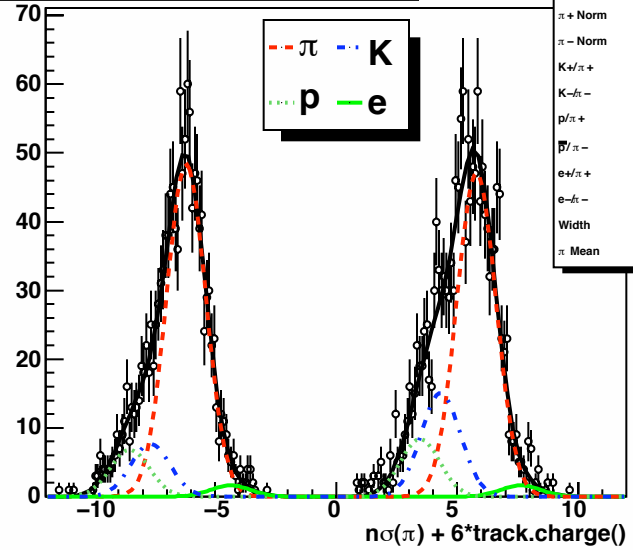
χ^2 / ndf	117.3 / 142
Prob	0.936
$\pi + \text{Norm}$	48.69
$\pi - \text{Norm}$	40.94
$K + \pi +$	0.2538
$K - \pi -$	0.2587
$p / \pi +$	0.1511
$\overline{p} / \pi -$	0.09995
$e + \pi +$	0.025
$e - \pi -$	0.0417
Width	0.8428
π Mean	-0.1747

p_T 8.80 – 12.84, $|p_l|$ 10.50 – 11.00



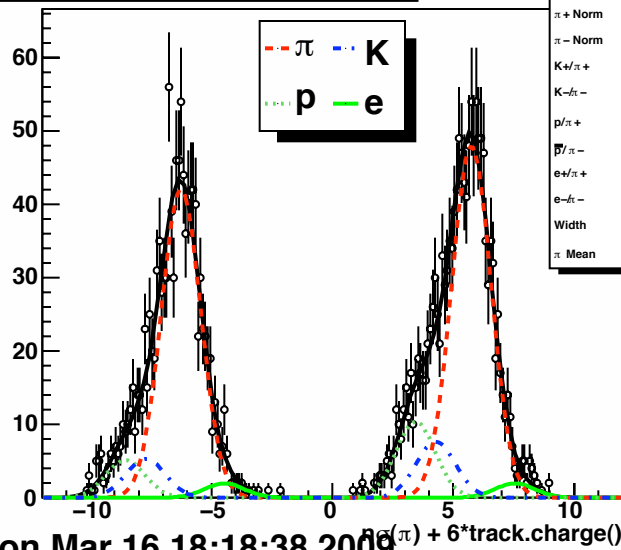
χ^2 / ndf	134.7 / 142
Prob	0.6565
$\pi + \text{Norm}$	49.26
$\pi - \text{Norm}$	44.88
$K + \pi +$	0.223
$K - \pi -$	0.2331
$p / \pi +$	0.2468
$\overline{p} / \pi -$	0.0638
$e + \pi +$	0.025
$e - \pi -$	0.02662
Width	0.8482
π Mean	-0.1595

p_T 8.80 – 12.84, $|p_l|$ 11.00 – 11.50



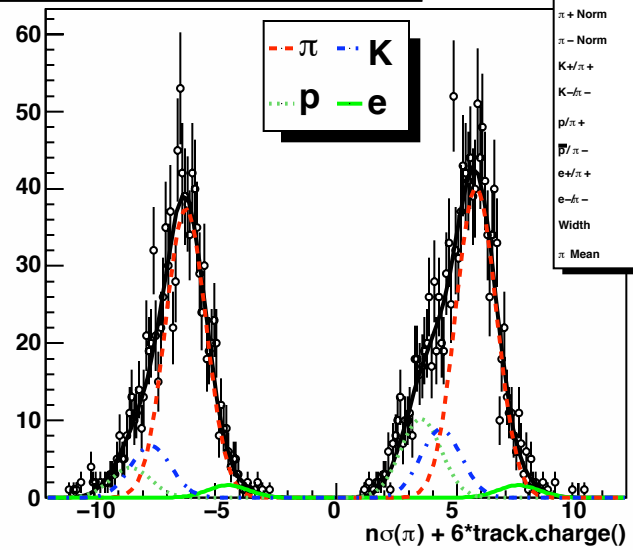
χ^2 / ndf	138.5 / 141
Prob	0.5427
$\pi + \text{Norm}$	47.12
$\pi - \text{Norm}$	48.29
$K + \pi +$	0.3202
$K - \pi -$	0.1587
$p / \pi +$	0.1778
$\overline{p} / \pi -$	0.1406
$e + \pi +$	0.025
$e - \pi -$	0.03417
Width	0.8097
π Mean	-0.2004

p_T 8.80 – 12.84, $|p_l|$ 11.50 – 12.00



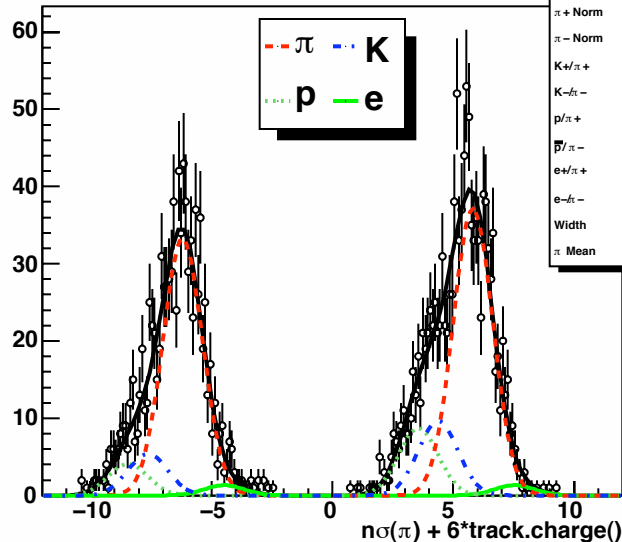
χ^2 / ndf	91.27 / 134
Prob	0.9982
$\pi + \text{Norm}$	47.91
$\pi - \text{Norm}$	42.11
$K + \pi +$	0.1588
$K - \pi -$	0.1254
$p / \pi +$	0.2158
$\overline{p} / \pi -$	0.1214
$e + \pi +$	0.025
$e - \pi -$	0.0465
Width	0.8159
π Mean	-0.2521

p_T 8.80 – 12.84, $|p_l|$ 12.00 – 12.50



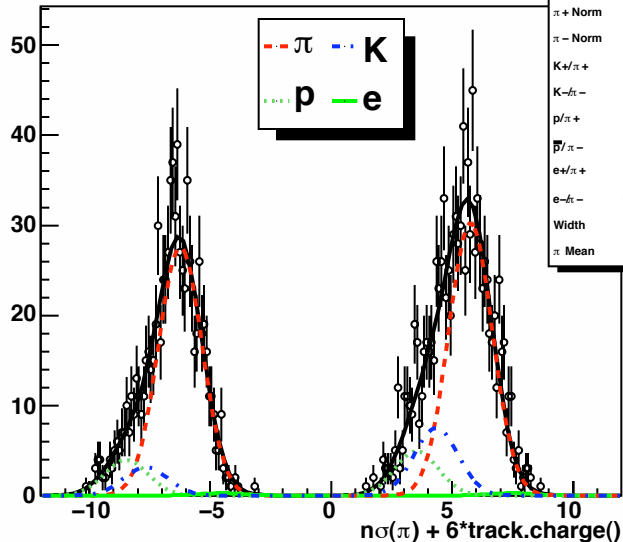
χ^2 / ndf	143.4 / 139
Prob	0.3827
$\pi + \text{Norm}$	40.14
$\pi - \text{Norm}$	37.33
$K + \pi +$	0.2216
$K - \pi -$	0.1798
$p / \pi +$	0.2542
$\overline{p} / \pi -$	0.1037
$e + \pi +$	0.025
$e - \pi -$	0.04316
Width	0.8364
π Mean	-0.2153

p_T 8.80 – 12.84, $|p_l|$ 12.50 – 13.00



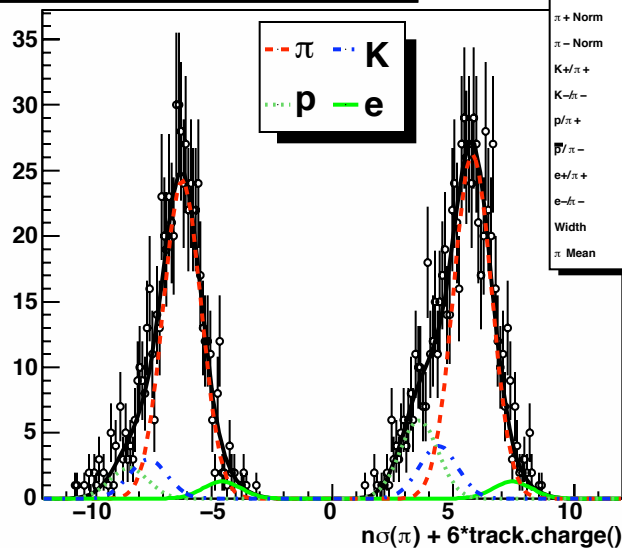
χ^2 / ndf	135.5 / 136
Prob	0.4958
$\pi + \text{Norm}$	37.1
$\pi - \text{Norm}$	33.23
$K + \pi +$	0.2595
$K - \pi -$	0.1627
$p / \pi +$	0.2343
$\bar{p} / \pi -$	0.1232
$e + \pi +$	0.025
$e - \pi -$	0.03991
Width	0.8194
π Mean	-0.1851

p_T 8.80 – 12.84, $|p_l|$ 13.00 – 13.50



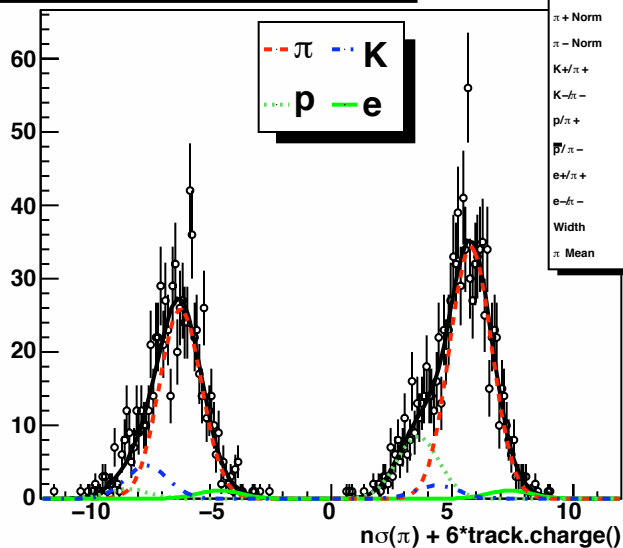
χ^2 / ndf	101.2 / 116
Prob	0.834
$\pi + \text{Norm}$	30.23
$\pi - \text{Norm}$	27.56
$K + \pi +$	0.2479
$K - \pi -$	0.1142
$p / \pi +$	0.1625
$\bar{p} / \pi -$	0.1422
$e + \pi +$	0.025
$e - \pi -$	0.009177
Width	0.9028
π Mean	-0.2364

p_T 8.80 – 12.84, $|p_l|$ 13.50 – 14.00



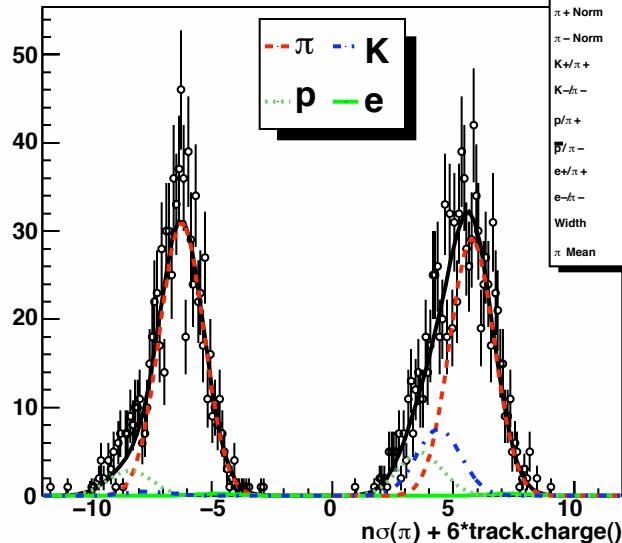
χ^2 / ndf	111 / 122
Prob	0.7534
$\pi + \text{Norm}$	26.23
$\pi - \text{Norm}$	24.18
$K + \pi +$	0.1528
$K - \pi -$	0.1229
$p / \pi +$	0.2267
$\bar{p} / \pi -$	0.09685
$e + \pi +$	0.025
$e - \pi -$	0.05397
Width	0.7867
π Mean	-0.203

p_T 8.80 – 12.84, $|p_l|$ 14.00 – 15.00



χ^2 / ndf	134.3 / 133
Prob	0.4513
$\pi + \text{Norm}$	34.29
$\pi - \text{Norm}$	25.79
$K + \pi +$	0.05281
$K - \pi -$	0.1747
$p / \pi +$	0.2462
$\bar{p} / \pi -$	0.05
$e + \pi +$	0.03867
$e - \pi -$	0.04237
Width	0.8711
π Mean	-0.2293

p_T 8.80 – 12.84, $|p_l|$ 15.00 – 19.77



χ^2 / ndf	157.1 / 125
Prob	0.02745
$\pi + \text{Norm}$	29.03
$\pi - \text{Norm}$	30.89
$K + \pi +$	0.2598
$K - \pi -$	0.01525
$p / \pi +$	0.1689
$\bar{p} / \pi -$	0.09125
$e + \pi +$	0.025
$e - \pi -$	0.007016
Width	0.91
π Mean	-0.2254