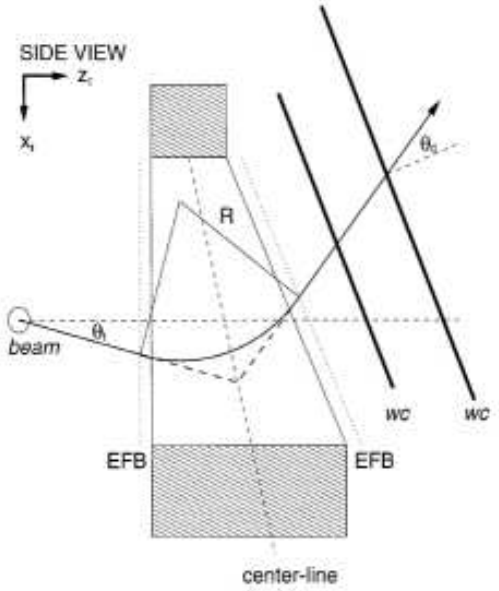
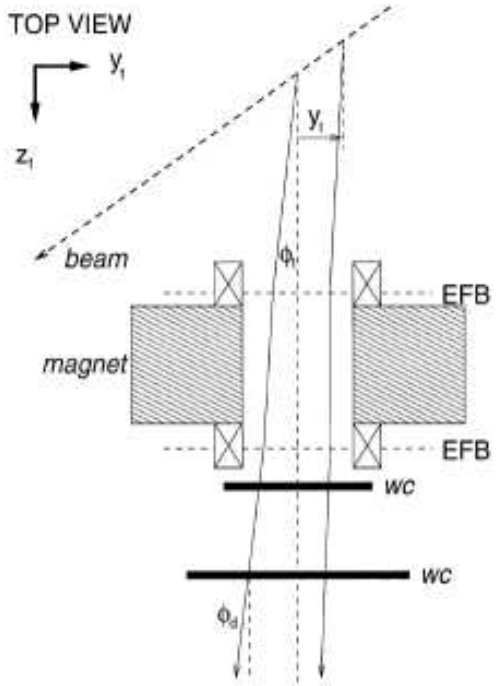
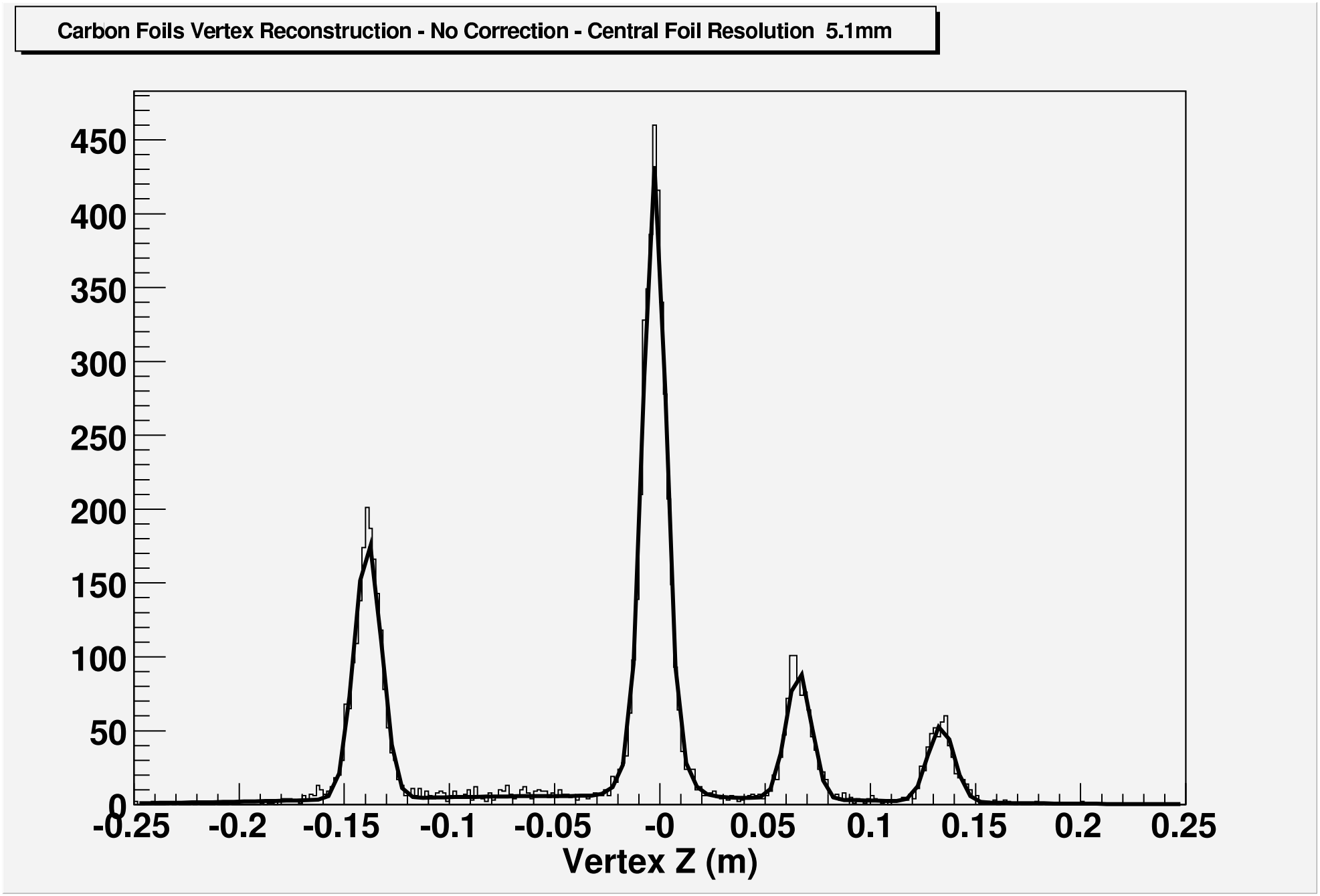
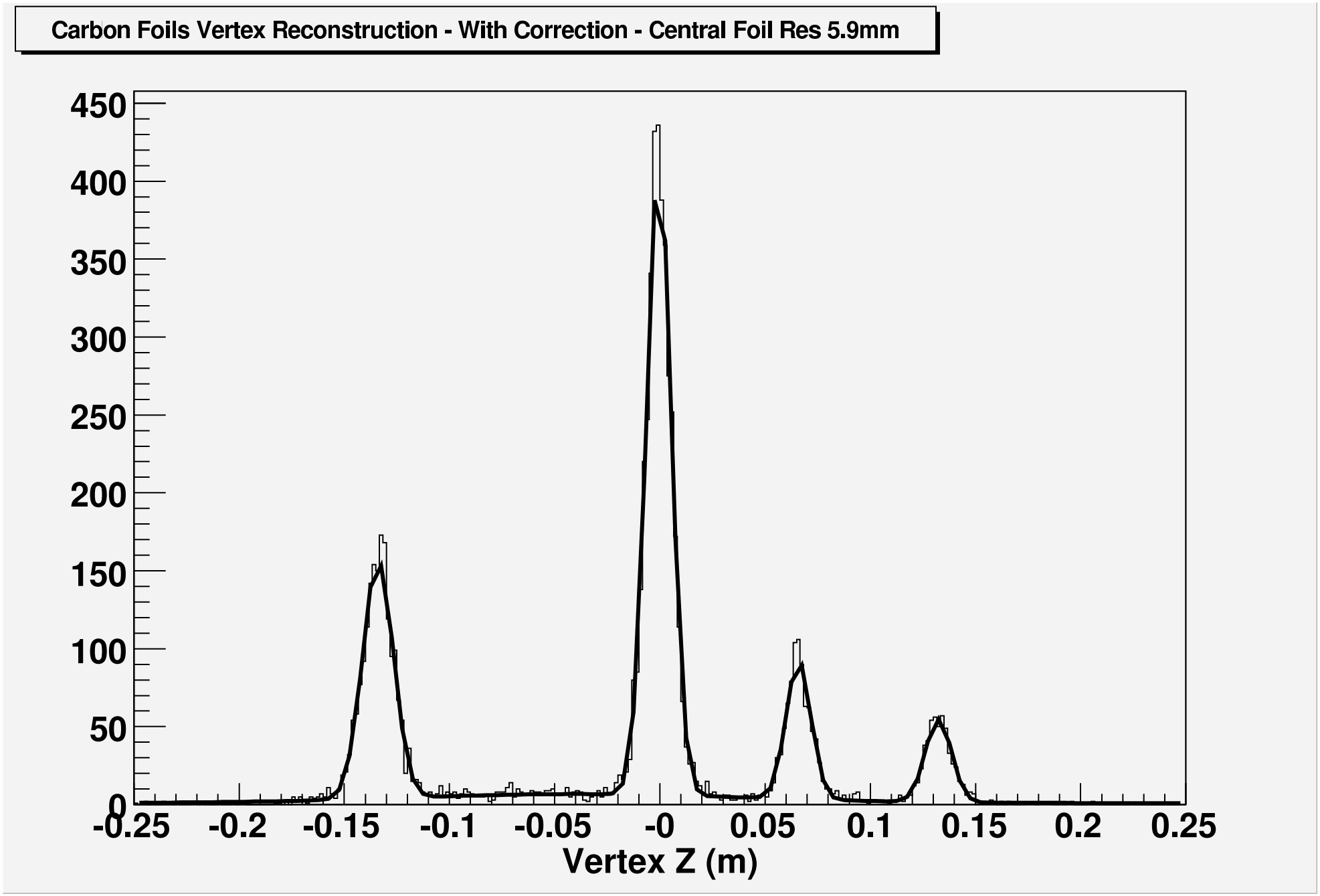
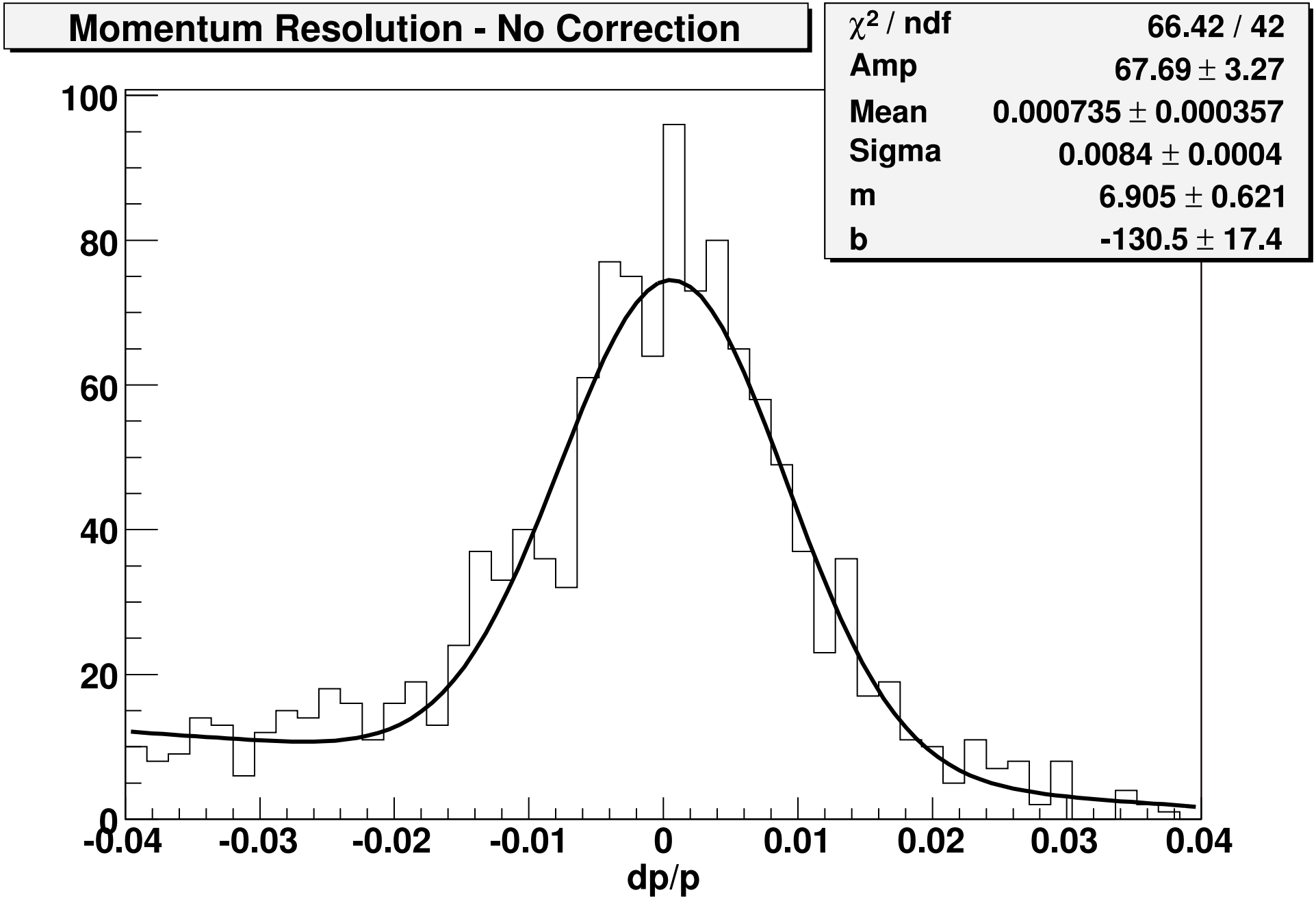


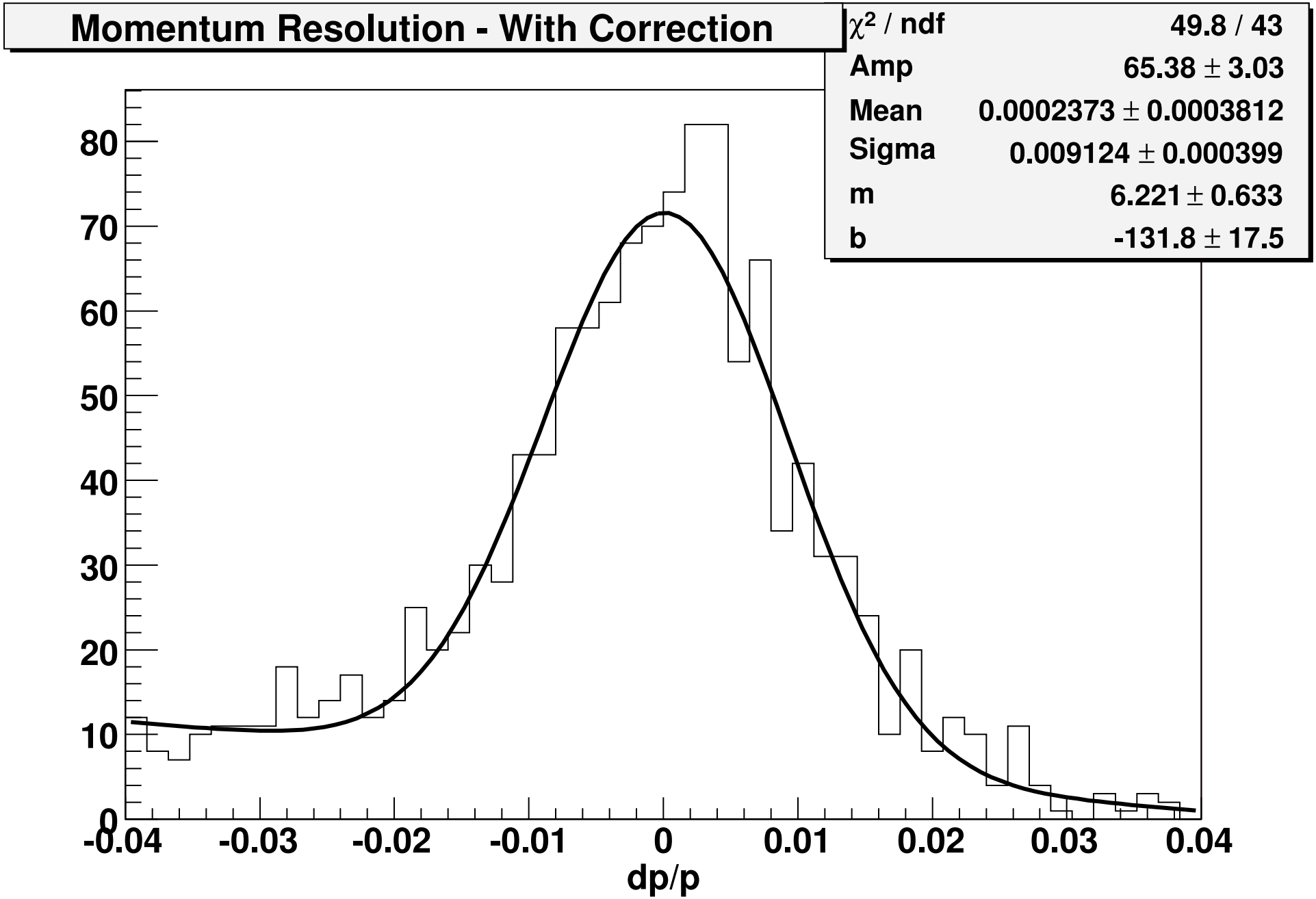


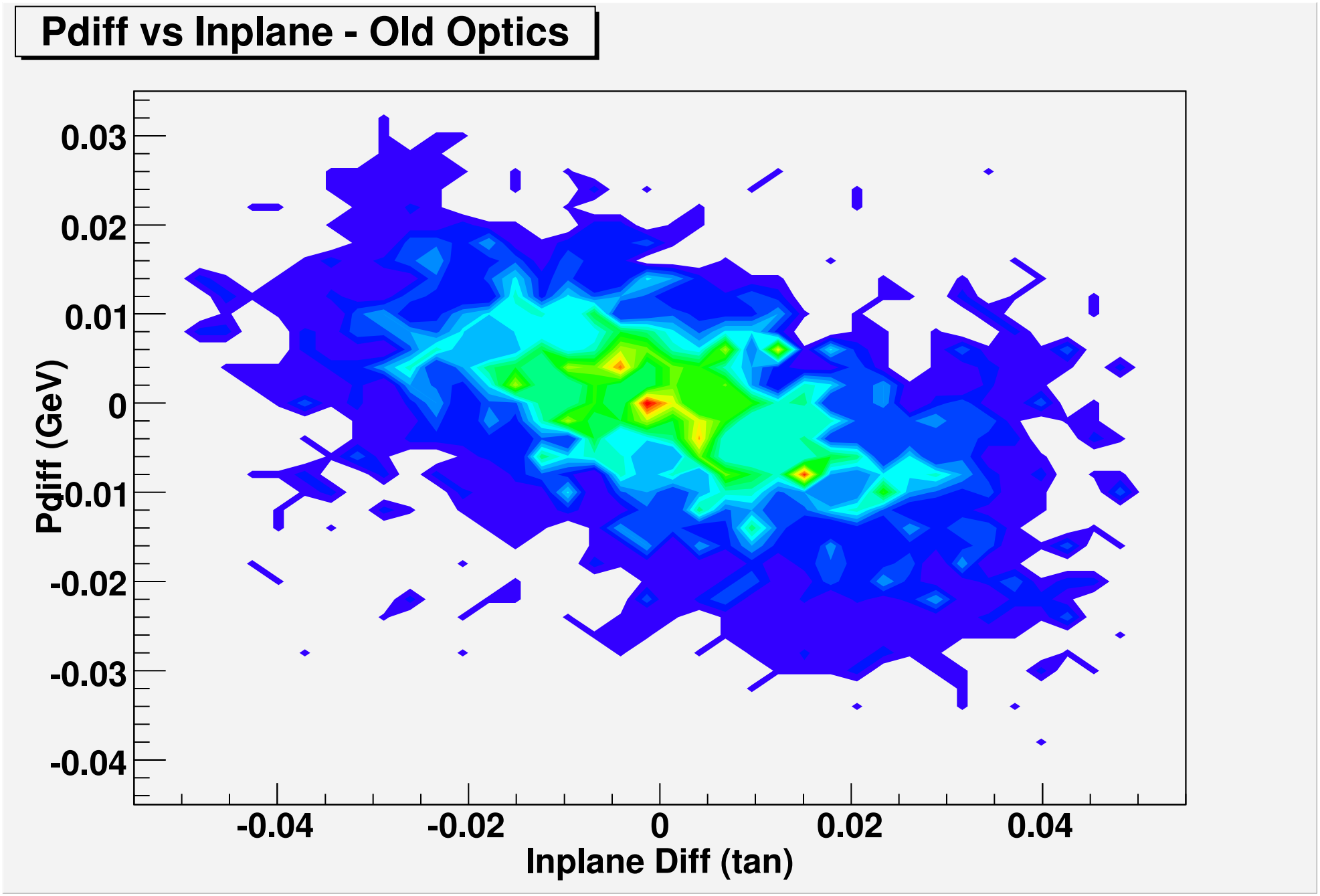
$$\Delta\phi = -(y/R)\tan\beta$$

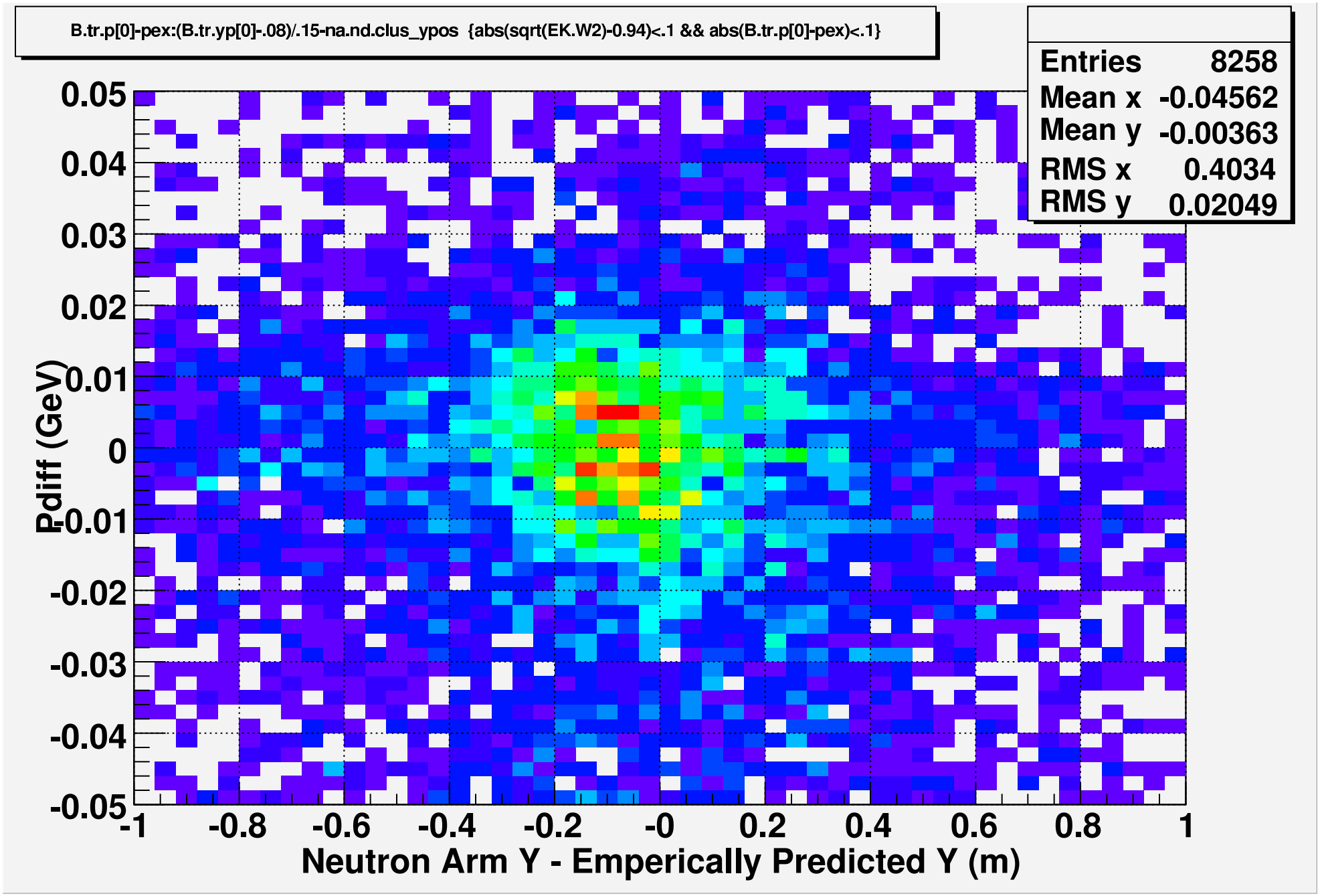

Carbon Foils Vertex Reconstruction - No Correction - Central Foil Resolution 5.1mm
450
400
350
300
250
200
150
100
50
0
-0.25
-0.2
-0.15
-0.1
-0.05
-0
0.05
0.1
0.15
0.2
0.25
Vertex Z (m)


Carbon Foils Vertex Reconstruction - With Correction - Central Foil Res 5.9mm
450
400
350
300
250
200
150
100
50
0
-0.25
-0.2
-0.15
-0.1
-0.05
-0
0.05
0.1
0.15
0.2
0.25
Vertex Z (m)


Momentum Resolution - No Correction
χ² / ndf 66.42 / 42
Amp 67.69 ± 3.27
Mean 0.000735 ± 0.000357
Sigma 0.0084 ± 0.0004
m 6.905 ± 0.621
b -130.5 ± 17.4
100
80
60
40
20
0
-0.04
-0.03
-0.02
-0.01
0
0.01
0.02
0.03
0.04
dp/p


Momentum Resolution - With Correction
χ² / ndf 49.8 / 43
Amp 65.38 ± 3.03
Mean 0.0002373 ± 0.0003812
Sigma 0.009124 ± 0.000399
m 6.221 ± 0.633
b -131.8 ± 17.5
80
70
60
50
40
30
20
10
0
-0.04
-0.03
-0.02
-0.01
0
0.01
0.02
0.03
0.04
dp/p


Pdiff vs Inplane - Old Optics
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
-0.04
Pdiff (GeV)
-0.04
-0.02
0
0.02
0.04
Inplane Diff (tan)


B.tr.p[0]-pex:(B.tr.yp[0]-.08)/.15-na.nd.clus_ypos {abs(sqrt(EK.W2)-0.94)<.1 && abs(B.tr.p[0]-pex)<.1}
Entries 8258
Mean x -0.04562
Mean y -0.00363
RMS x 0.4034
RMS y 0.02049
Pdiff (GeV)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
-0.04
-0.05
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
Neutron Arm Y - Emperically Predicted Y (m)