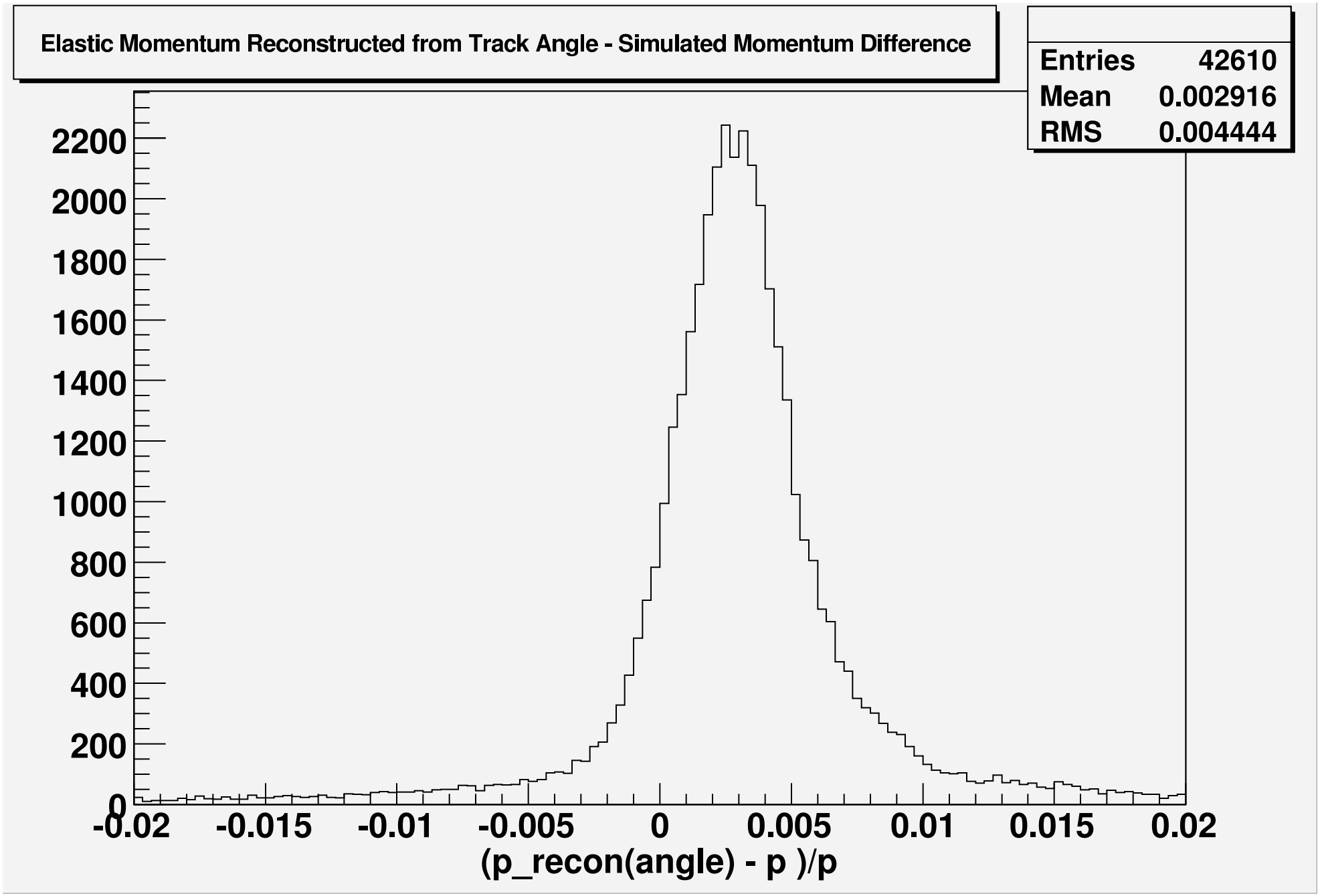
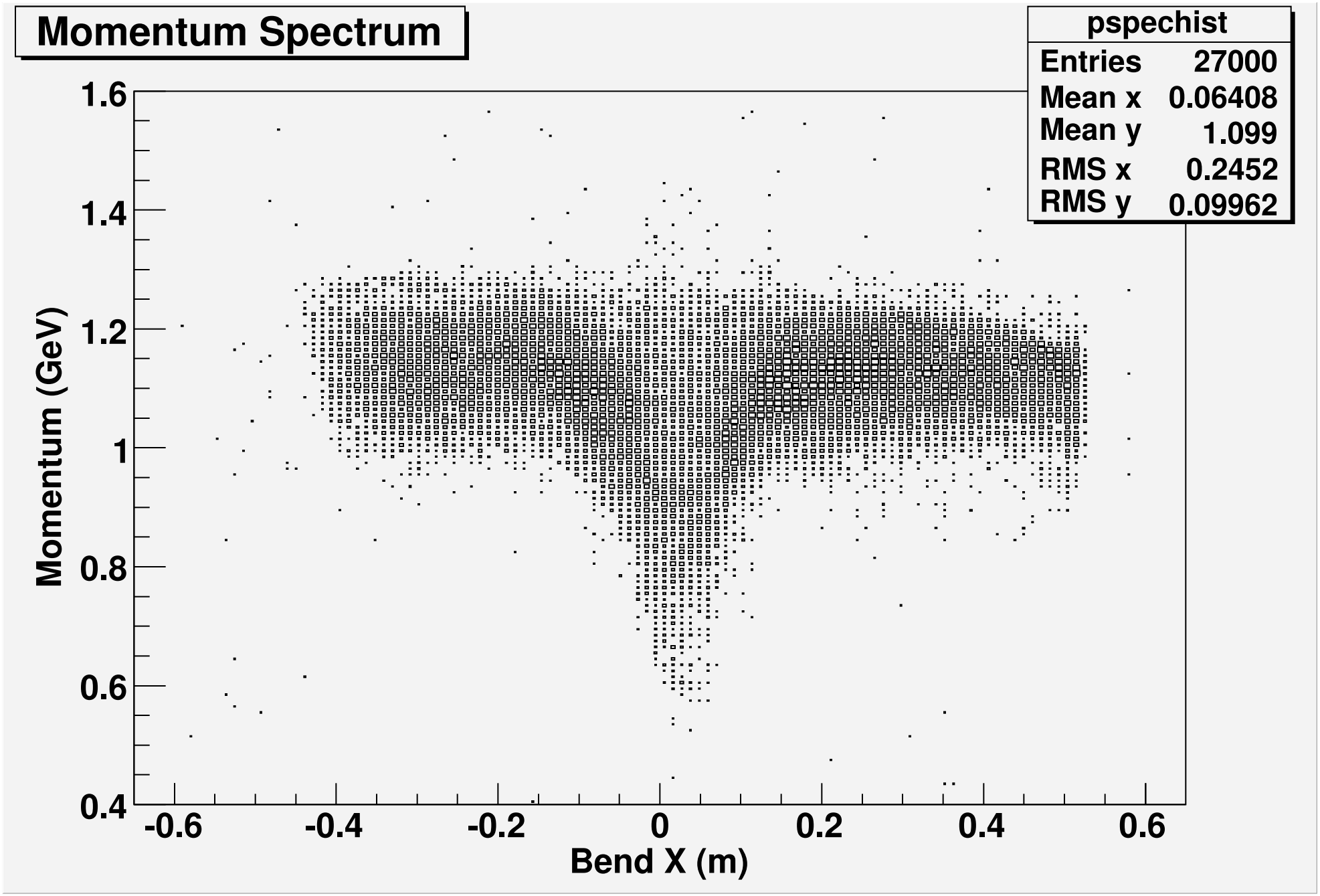
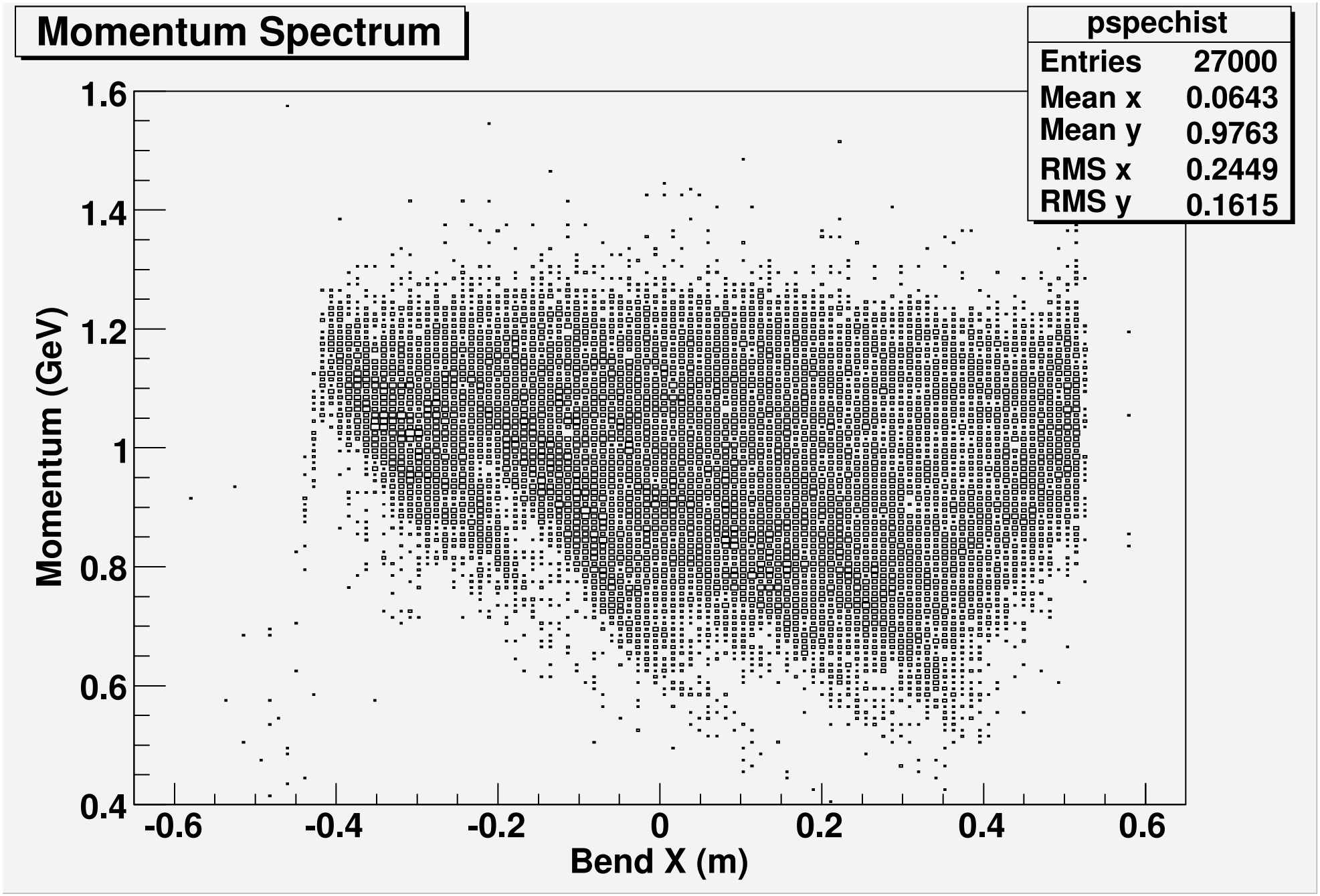
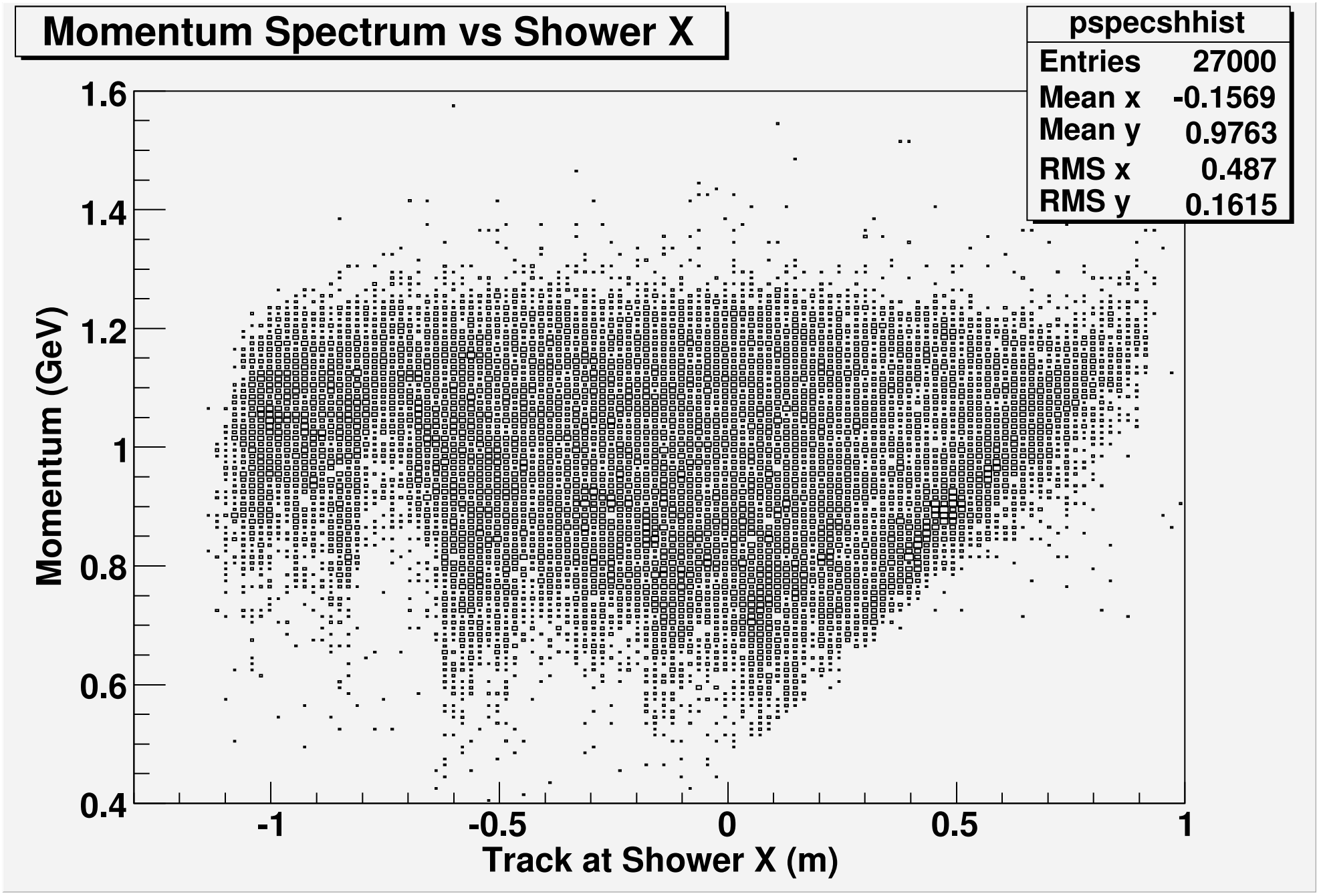
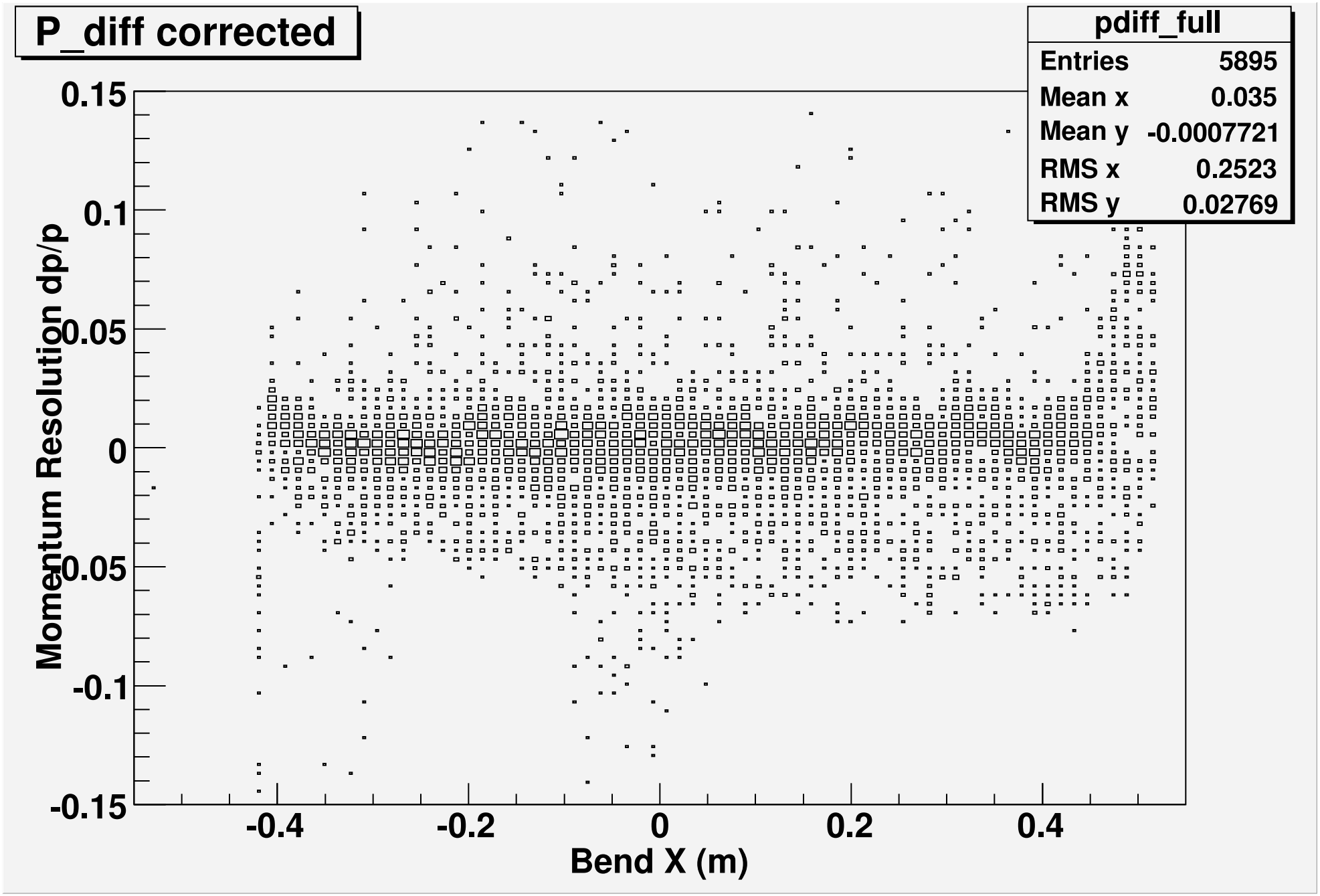
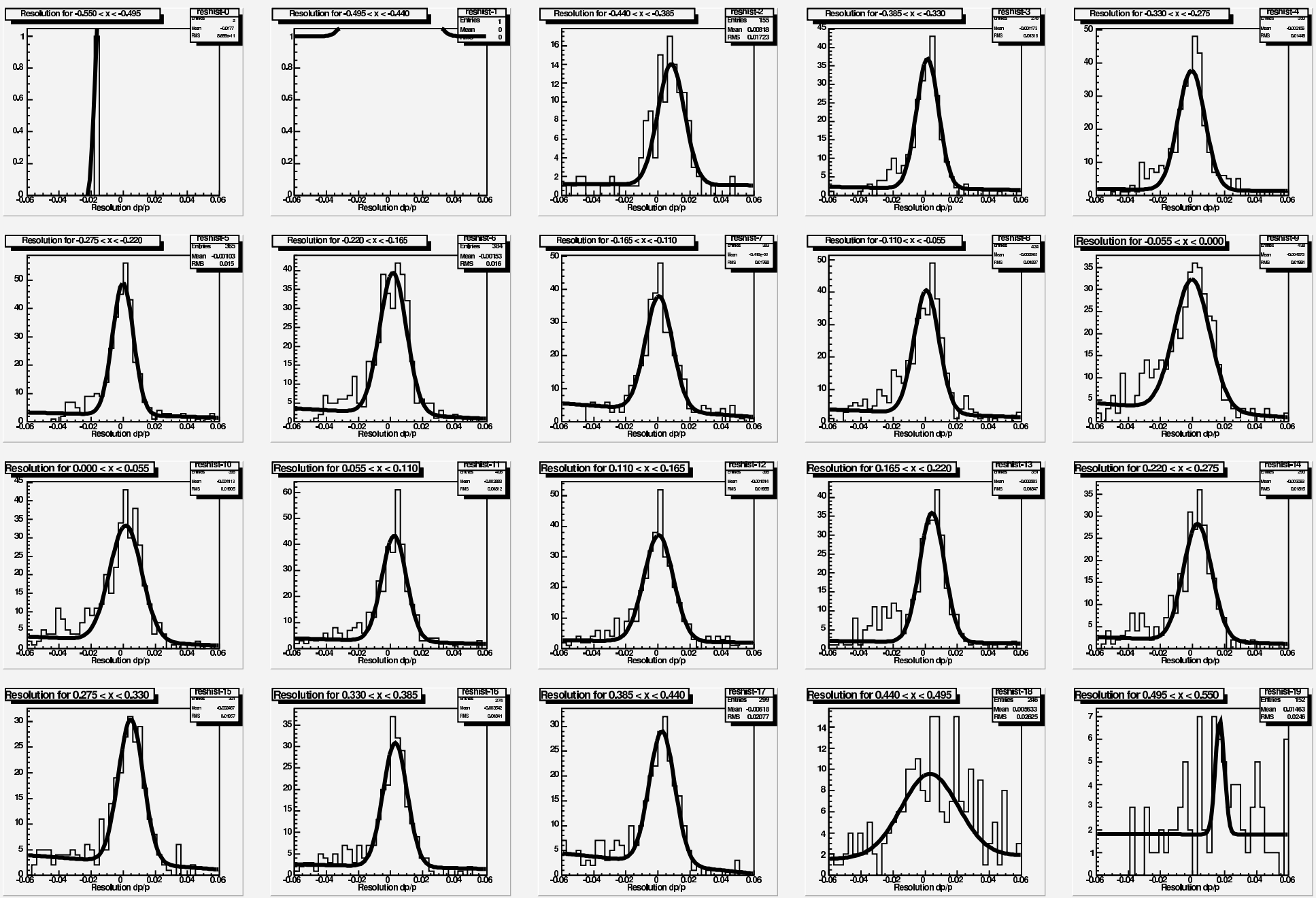

Elastic Momentum Reconstructed from Track Angle - Simulated Momentum Difference
Entries 42610
Mean 0.002916
RMS 0.004444
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
-0.02
-0.015
-0.01
-0.005
0
0.005
0.01
0.015
0.02
(p_recon(angle) - p)/p

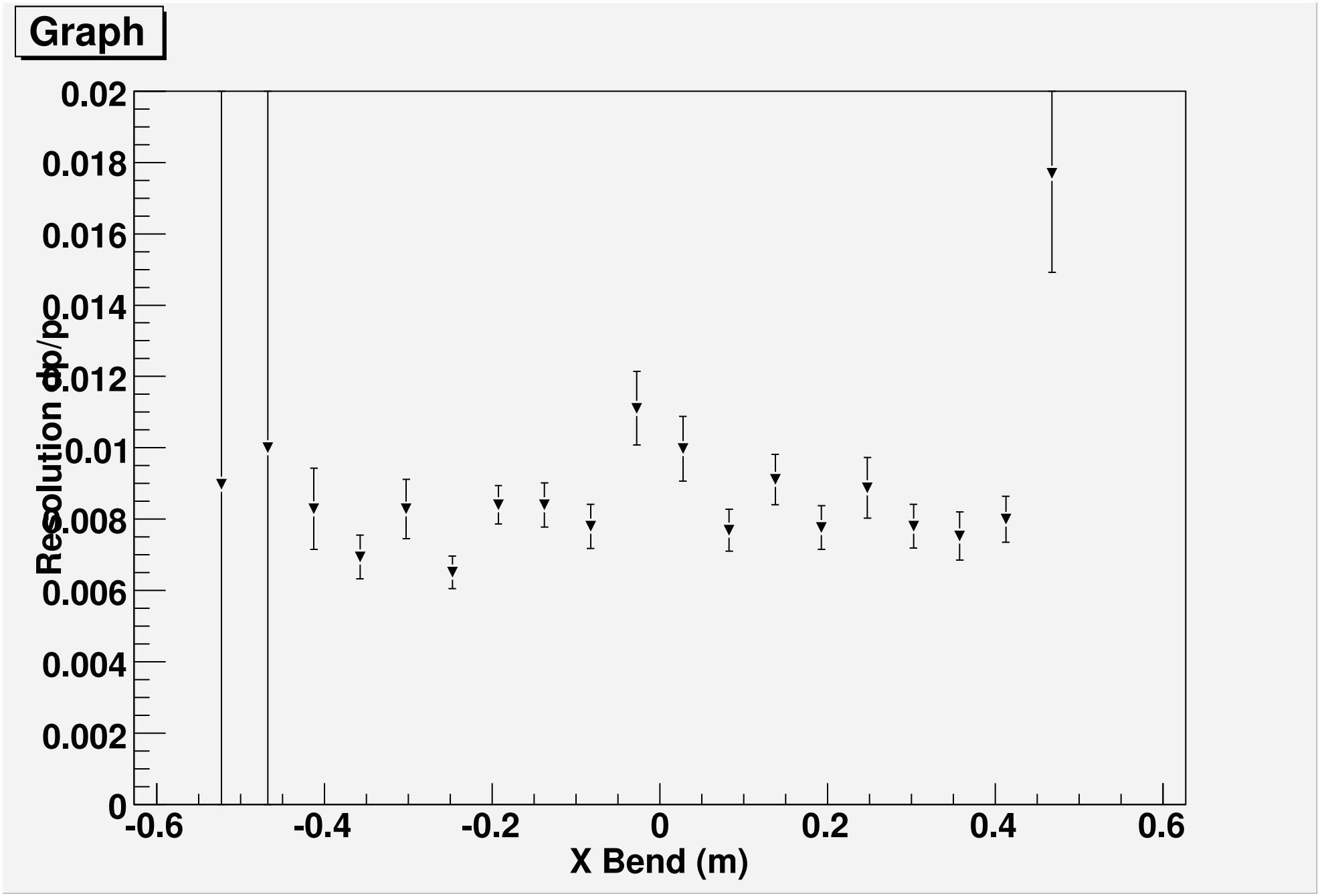

Momentum Spectrum
pspechist
Entries 27000
Mean x 0.06408
Mean y 1.099
RMS x 0.2452
RMS y 0.09962
Momentum (GeV)
1.6
1.4
1.2
1
0.8
0.6
0.4
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
Bend X (m)


Momentum Spectrum
pspechist
Entries 27000
Mean x 0.0643
Mean y 0.9763
RMS x 0.2449
RMS y 0.1615
Momentum (GeV)
1.6
1.4
1.2
1
0.8
0.6
0.4
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
Bend X (m)


Momentum Spectrum vs Shower X
pspecshhist
Entries 27000
Mean x -0.1569
Mean y 0.9763
RMS x 0.487
RMS y 0.1615
Momentum (GeV)
1.6
1.4
1.2
1
0.8
0.6
0.4
-1
-0.5
0
0.5
1
Track at Shower X (m)


P_diff corrected
pdiff_full
Entries 5895
Mean x 0.035
Mean y -0.0007721
RMS x 0.2523
RMS y 0.02769
Momentum Resolution dp/p
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.4
-0.2
0
0.2
0.4
Bend X (m)


Resolution for -0.550 < x < -0.495
reshist-0
Resolution for -0.495 < x < -0.440
reshist-1
Resolution for -0.440 < x < -0.385
reshist-2
Resolution for -0.385 < x < -0.330
reshist-3
Resolution for -0.330 < x < -0.275
reshist-4
Resolution for -0.275 < x < -0.220
reshist-5
Resolution for -0.220 < x < -0.165
reshist-6
Resolution for -0.165 < x < -0.110
reshist-7
Resolution for -0.110 < x < -0.055
reshist-8
Resolution for -0.055 < x < 0.000
reshist-9
Resolution for 0.000 < x < 0.055
reshist-10
Resolution for 0.055 < x < 0.110
reshist-11
Resolution for 0.110 < x < 0.165
reshist-12
Resolution for 0.165 < x < 0.220
reshist-13
Resolution for 0.220 < x < 0.275
reshist-14
Resolution for 0.275 < x < 0.330
reshist-15
Resolution for 0.330 < x < 0.385
reshist-16
Resolution for 0.385 < x < 0.440
reshist-17
Resolution for 0.440 < x < 0.495
reshist-18
Resolution for 0.495 < x < 0.550
reshist-19
Resolution dp/p


Graph
Resolution dp/p
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
X Bend (m)