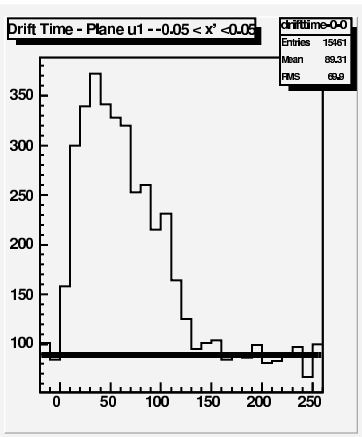
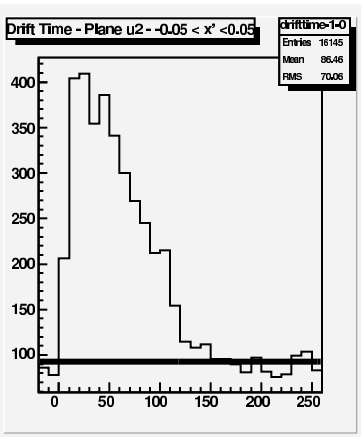
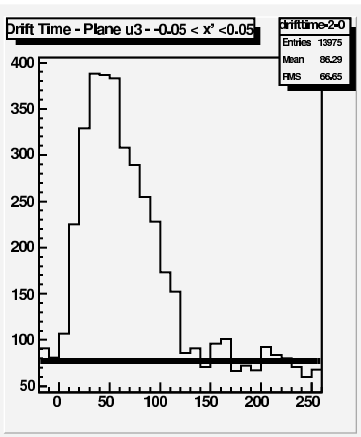
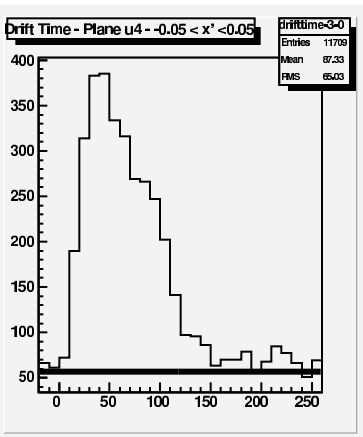
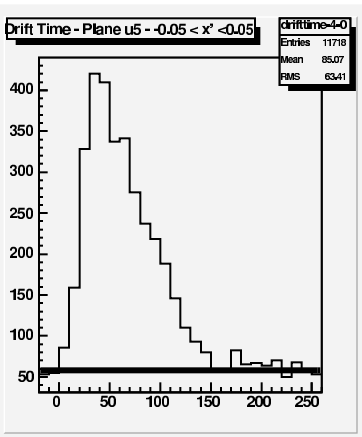
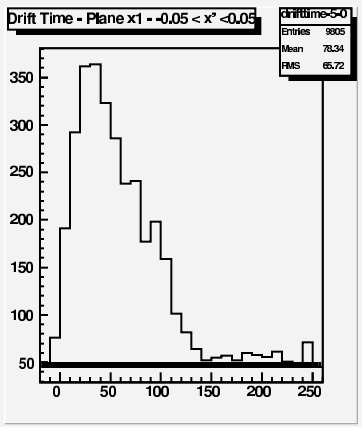

Drift Time - Plane u1 - -0.05 < x' <0.05
drifttime-0-0
Entries 15461
Mean 89.31
RMS 69.9

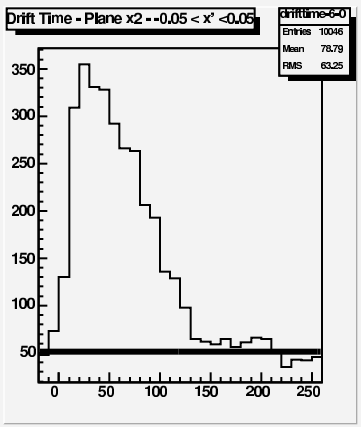

Drift Time - Plane u2 - -0.05 < x' <0.05
drifttime-1-0
Entries 16145
Mean 86.46
RMS 70.06

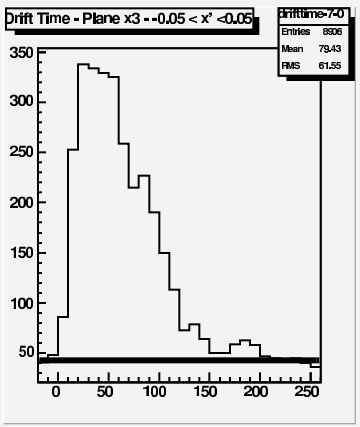

Drift Time - Plane u3 - -0.05 < x' <0.05
drifttime-2-0
Entries 13975
Mean 86.29
RMS 66.65

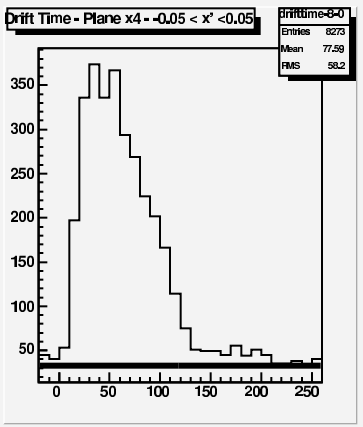

Drift Time - Plane u4 - -0.05 < x' <0.05
drifttime-3-0
Entries 11709
Mean 87.33
RMS 65.03

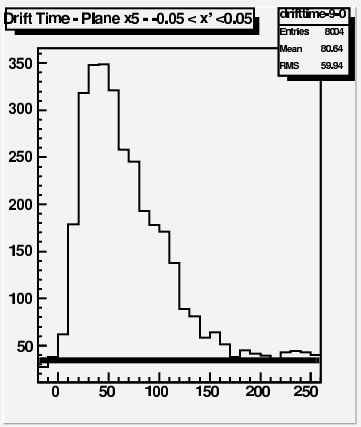

Drift Time - Plane u5 - -0.05 < x' <0.05
drifttime-4-0
Entries 11718
Mean 85.07
RMS 63.41

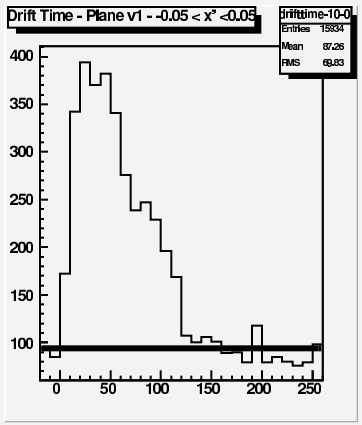

Drift Time - Plane x1 - -0.05 < x' <0.05
drifttime-5-0
Entries 9805
Mean 78.34
RMS 65.72

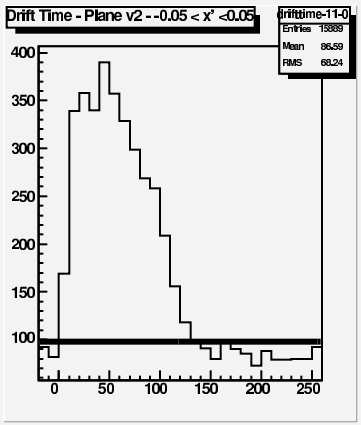

Drift Time - Plane x2 - -0.05 < x' <0.05
drifttime-6-0
Entries 10046
Mean 78.79
RMS 63.25

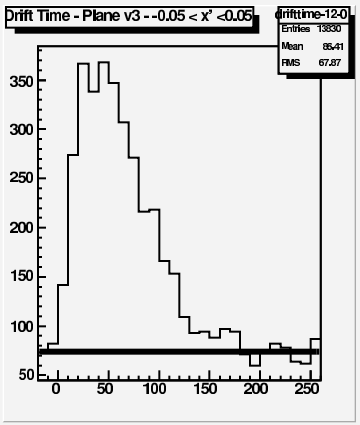

Drift Time - Plane x3 - -0.05 < x' <0.05
drifttime-7-0
Entries 8936
Mean 79.43
RMS 61.55

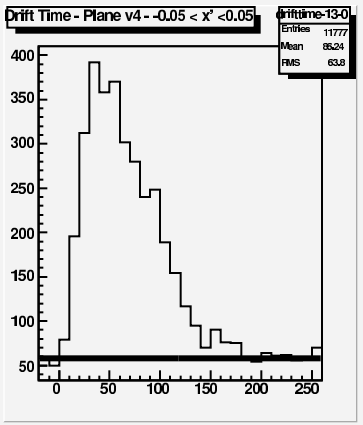

Drift Time - Plane x4 - -0.05 < x' <0.05
drifttime-8-0
Entries 8273
Mean 77.59
RMS 58.2

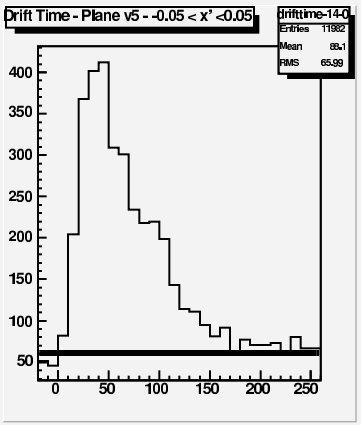

Drift Time - Plane x5 - -0.05 < x' <0.05
drifttime-9-0
Entries 8004
Mean 80.64
RMS 59.94

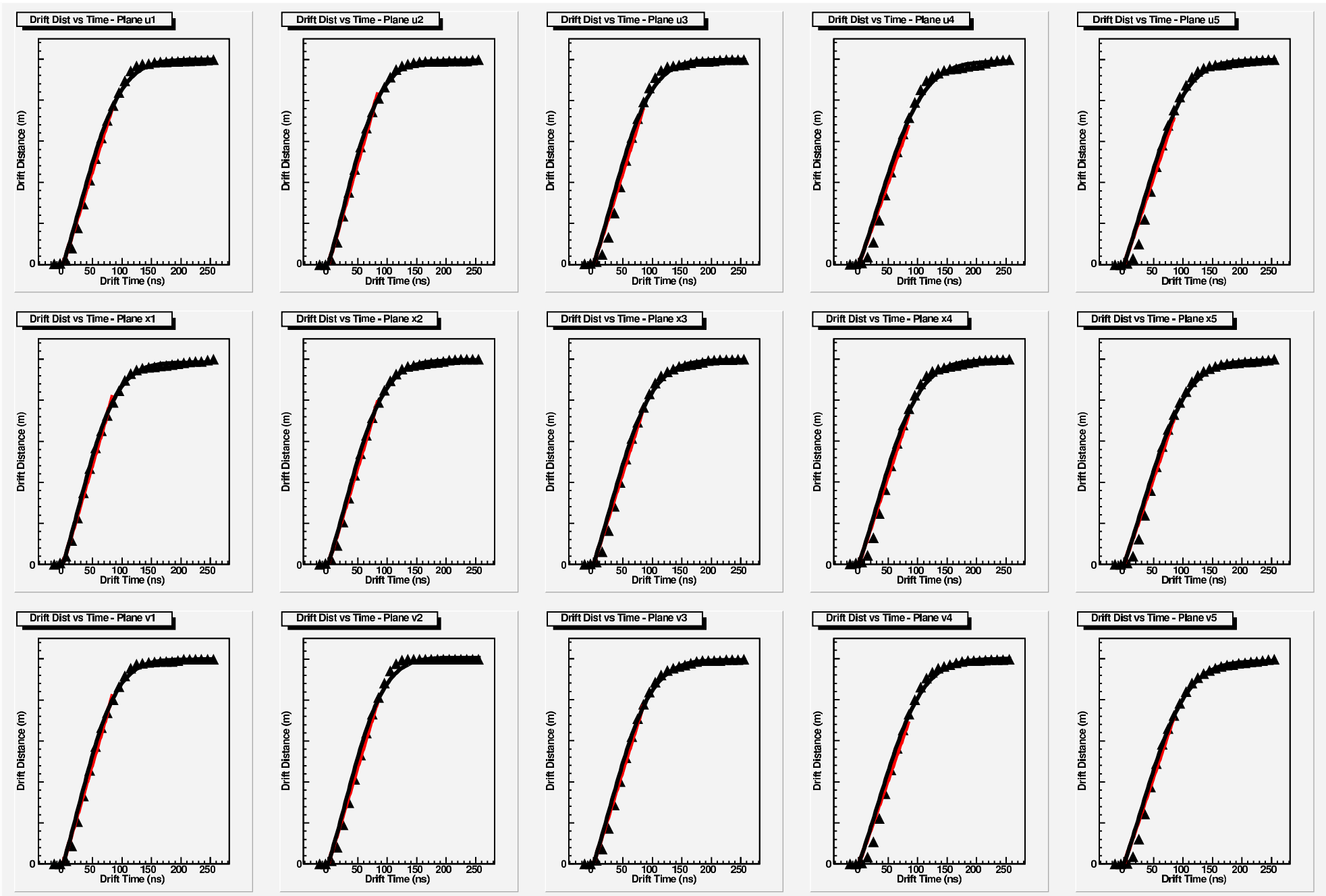

Drift Time - Plane v1 - -0.05 < x' <0.05
drifttime-10-0
Entries 15934
Mean 87.26
RMS 66.83

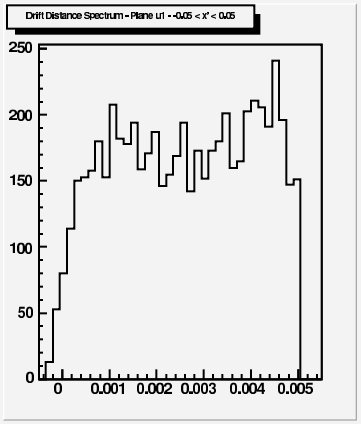

Drift Time - Plane v2 - -0.05 < x' <0.05
drifttime-11-0
Entries 15889
Mean 86.59
RMS 68.24

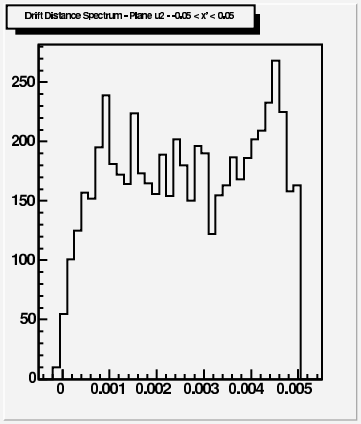

Drift Time - Plane v3 - -0.05 < x' <0.05
drifttime-12-0
Entries 13830
Mean 85.41
RMS 67.87

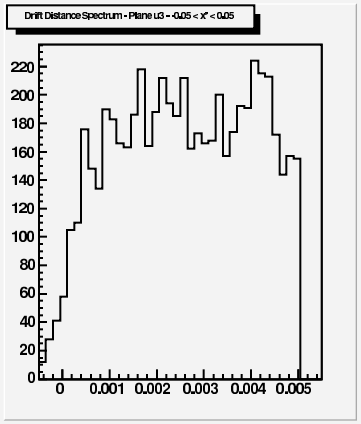

Drift Time - Plane v4 - -0.05 < x' <0.05
drifttime-13-0
Entries 11777
Mean 85.24
RMS 63.8

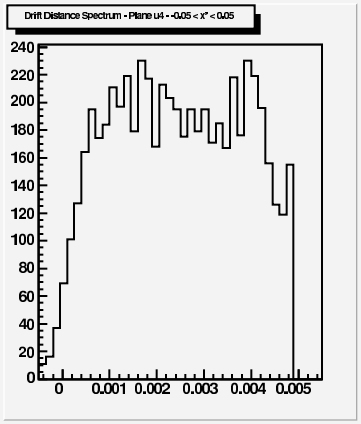

Drift Time - Plane v5 - -0.05 < x' <0.05
drifttime-14-0
Entries 11982
Mean 85.1
RMS 65.99

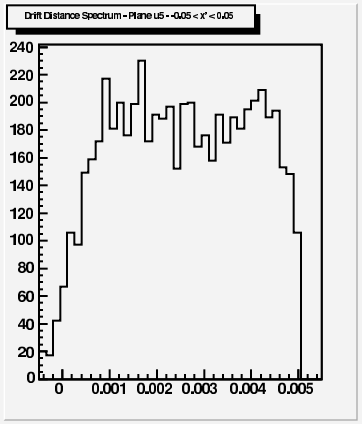

Drift Dist vs Time - Plane u1
Drift Dist vs Time - Plane u2
Drift Dist vs Time - Plane u3
Drift Dist vs Time - Plane u4
Drift Dist vs Time - Plane u5
Drift Dist vs Time - Plane x1
Drift Dist vs Time - Plane x2
Drift Dist vs Time - Plane x3
Drift Dist vs Time - Plane x4
Drift Dist vs Time - Plane x5
Drift Dist vs Time - Plane v1
Drift Dist vs Time - Plane v2
Drift Dist vs Time - Plane v3
Drift Dist vs Time - Plane v4
Drift Dist vs Time - Plane v5
Drift Distance (m)
Drift Time (ns)
0
50
100
150
200
250

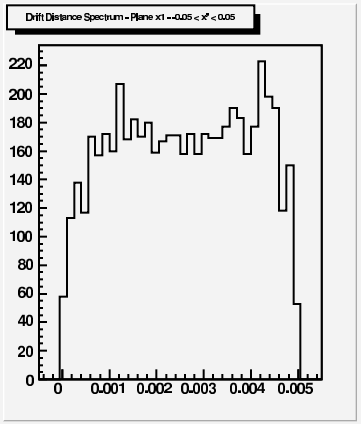

Drift Distance Spectrum - Plane u1 - -0.05 < x' < 0.05

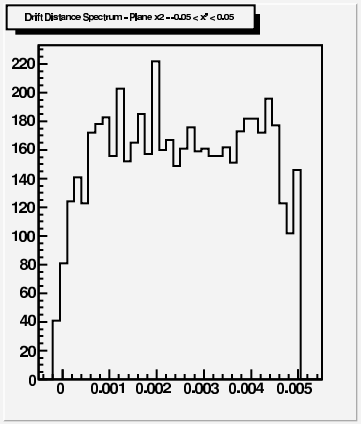

Drift Distance Spectrum - Plane u2 - -0.05 < x' < 0.05

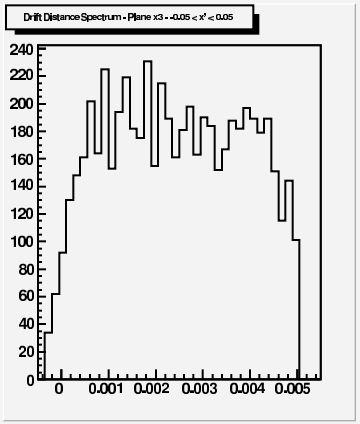

Drift Distance Spectrum - Plane u3 - -0.05 < x' < 0.05

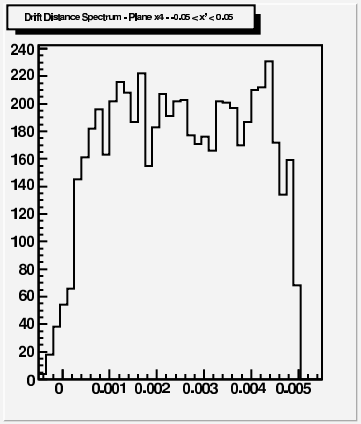

Drift Distance Spectrum - Plane u4 - -0.05 < x' < 0.05

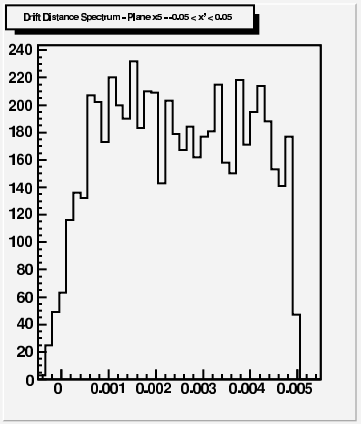

Drift Distance Spectrum - Plane u5 - -0.05 < x' < 0.05

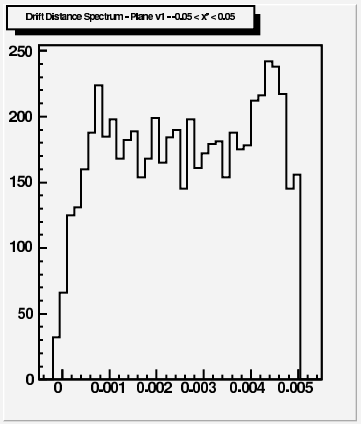

Drift Distance Spectrum - Plane x1 - -0.05 < x' < 0.05

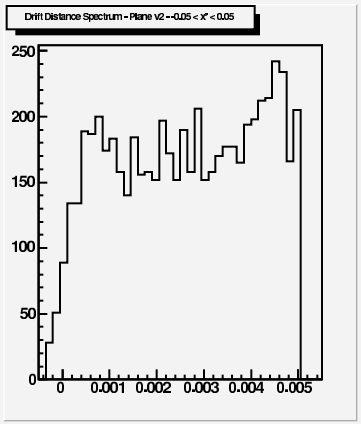

Drift Distance Spectrum - Plane x2 - -0.05 < x' < 0.05

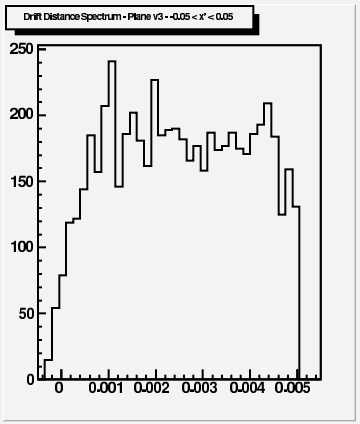

Drift Distance Spectrum - Plane x3 - -0.05 < x' < 0.05

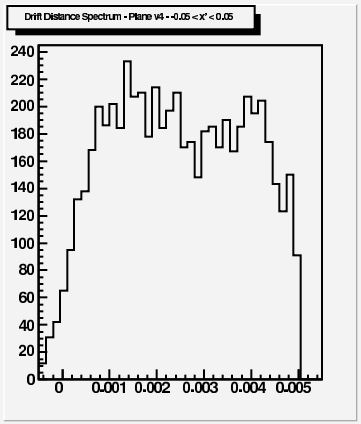

Drift Distance Spectrum - Plane x4 - -0.05 < x' < 0.05

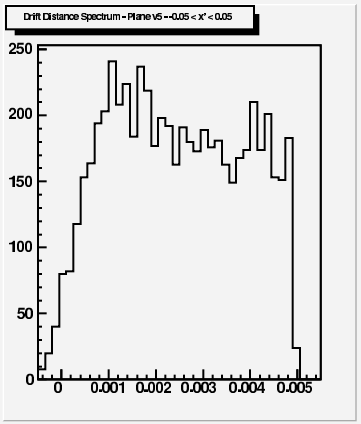

Drift Distance Spectrum - Plane x5 - -0.05 < x' < 0.05

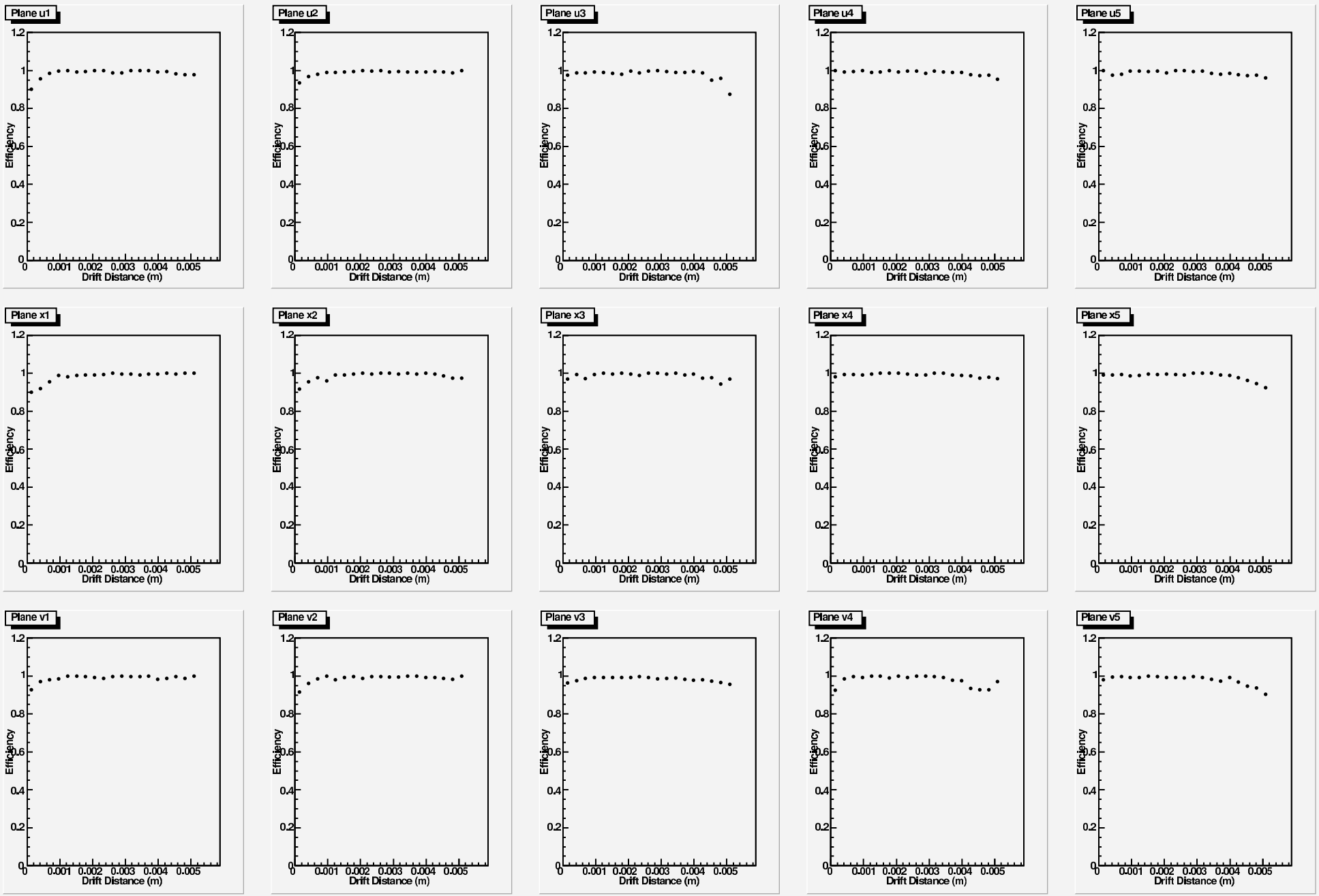

Drift Distance Spectrum - Plane v1 - -0.05 < x' < 0.05

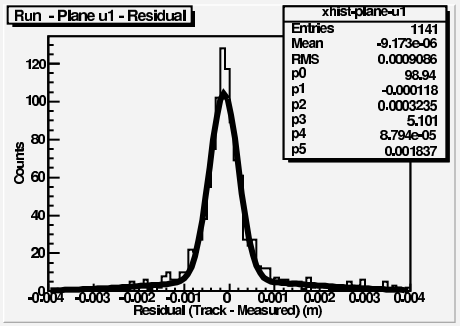

Drift Distance Spectrum - Plane v2 - -0.05 < x' < 0.05

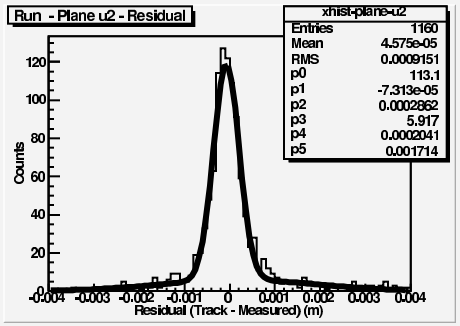

Drift Distance Spectrum - Plane v3 - -0.05 < x' < 0.05

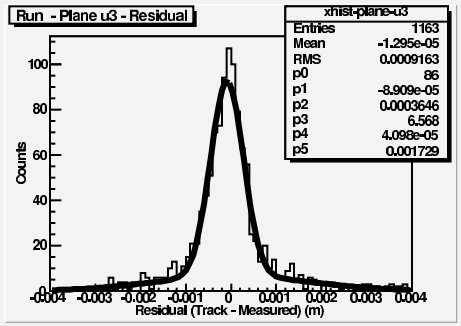

Drift Distance Spectrum - Plane v4 - -0.05 < x' < 0.05

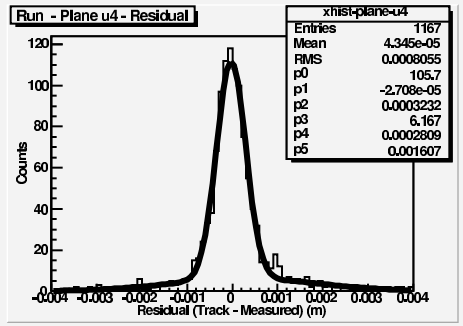

Drift Distance Spectrum - Plane v5 - -0.05 < x' < 0.05

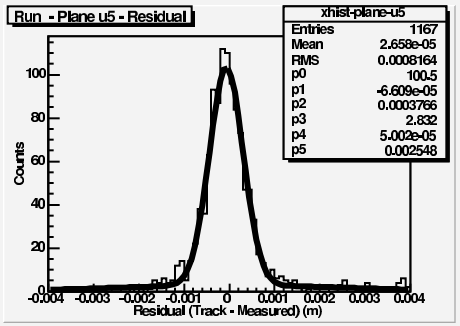

Plane u1
Plane u2
Plane u3
Plane u4
Plane u5
Plane x1
Plane x2
Plane x3
Plane x4
Plane x5
Plane v1
Plane v2
Plane v3
Plane v4
Plane v5
Efficiency
Drift Distance (m)
0
0.2
0.4
0.6
0.8
1
1.2
0.001
0.002
0.003
0.004
0.005

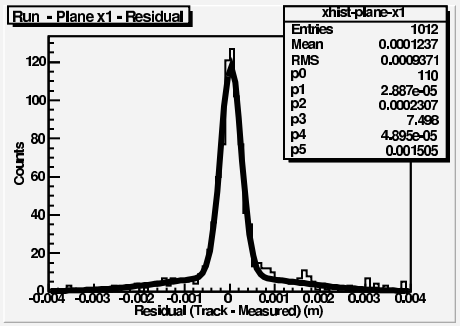

Run - Plane u1 - Residual
xhist-plane-u1
Entries 1141
Mean -9.173e-06
RMS 0.0009086
p0 98.94
p1 -0.000118
p2 0.0003235
p3 5.101
p4 8.794e-05
p5 0.001837
Counts
Residual (Track - Measured) (m)

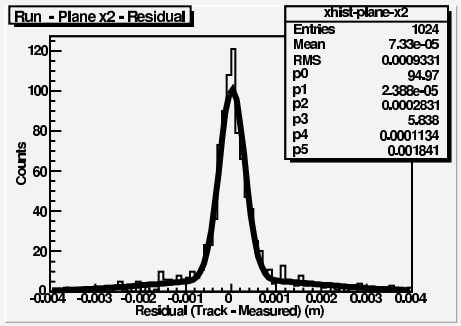

Run - Plane u2 - Residual
xhist-plane-u2
Entries 1160
Mean 4.575e-05
RMS 0.0009151
p0 113.1
p1 -7.313e-05
p2 0.0002862
p3 5.917
p4 0.0002041
p5 0.001714
Counts
Residual (Track - Measured) (m)

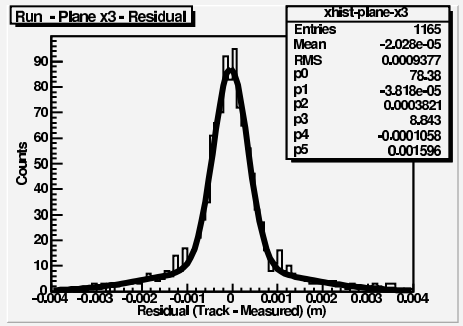

Run - Plane u3 - Residual
xhist-plane-u3
Entries 1163
Mean -1.295e-05
RMS 0.0009163
p0 86
p1 -8.909e-05
p2 0.0003646
p3 6.568
p4 4.098e-05
p5 0.001729
Counts
Residual (Track - Measured) (m)

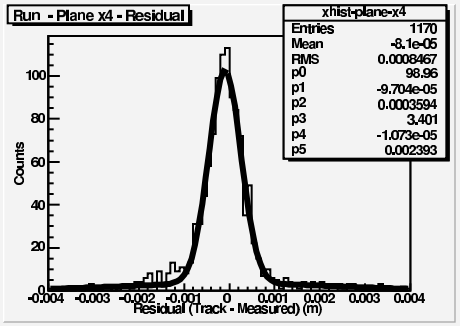

Run - Plane u4 - Residual
xhist-plane-u4
Entries 1167
Mean 4.345e-05
RMS 0.0008055
p0 105.7
p1 -2.708e-05
p2 0.0003232
p3 6.167
p4 0.0002809
p5 0.001607
Counts
Residual (Track - Measured) (m)

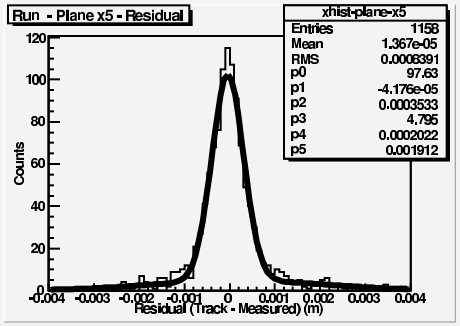

Run - Plane u5 - Residual
xhist-plane-u5
Entries 1167
Mean 2.658e-05
RMS 0.0008164
p0 100.5
p1 -6.609e-05
p2 0.0003766
p3 2.832
p4 5.002e-05
p5 0.002548
Counts
Residual (Track - Measured) (m)

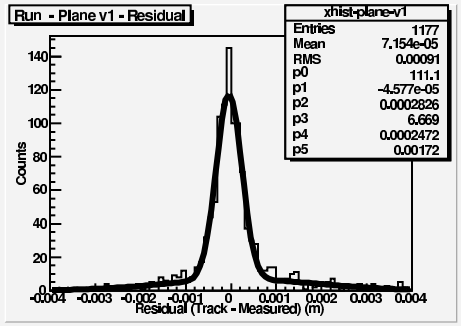

Run - Plane x1 - Residual
xhist-plane-x1
Entries 1012
Mean 0.0001237
RMS 0.0009371
p0 110
p1 2.887e-05
p2 0.0002307
p3 7.498
p4 4.895e-05
p5 0.001505
Counts
Residual (Track - Measured) (m)

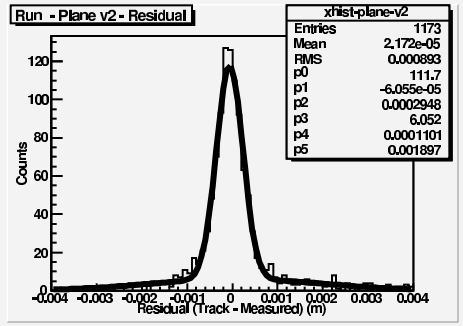

Run - Plane x2 - Residual
xhist-plane-x2
Entries 1024
Mean 7.33e-05
RMS 0.0009331
p0 94.97
p1 2.388e-05
p2 0.0002831
p3 5.838
p4 0.0001134
p5 0.001841
Counts
Residual (Track - Measured) (m)

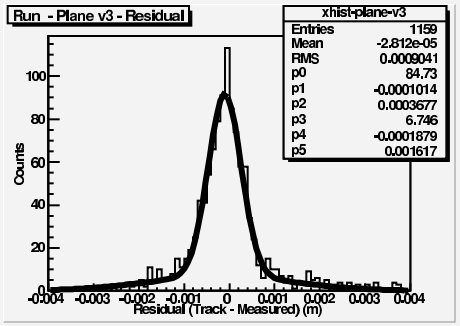

Run - Plane x3 - Residual
xhist-plane-x3
Entries 1165
Mean -2.028e-05
RMS 0.0009377
p0 78.38
p1 -3.818e-05
p2 0.0003821
p3 8.843
p4 -0.0001058
p5 0.001596
Counts
Residual (Track - Measured) (m)

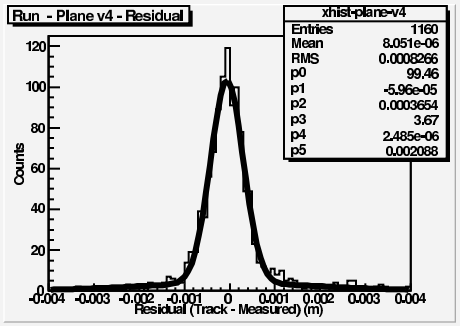

Run - Plane x4 - Residual
xhist-plane-x4
Entries 1170
Mean -8.1e-05
RMS 0.0008467
p0 98.96
p1 -9.704e-05
p2 0.0003594
p3 3.401
p4 -1.073e-05
p5 0.002393
Counts
Residual (Track - Measured) (m)

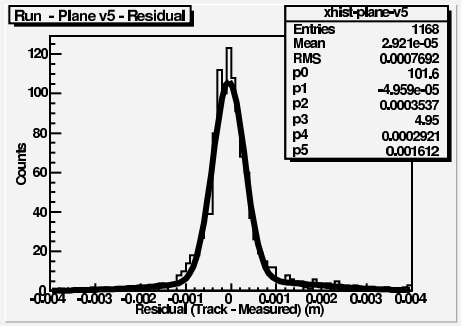

Run - Plane x5 - Residual
xhist-plane-x5
Entries 1158
Mean 1.367e-05
RMS 0.0008391
p0 97.63
p1 -4.176e-05
p2 0.0003533
p3 4.795
p4 0.0002022
p5 0.001912
Counts
Residual (Track - Measured) (m)

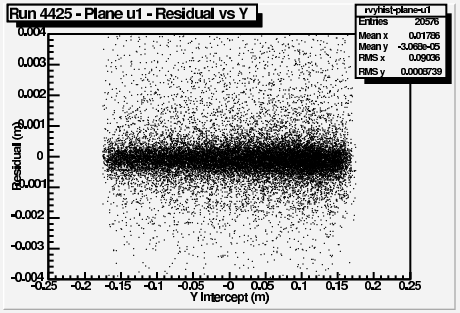

Run - Plane v1 - Residual
xhist-plane-v1
Entries 1177
Mean 7.154e-05
RMS 0.00091
p0 111.1
p1 -4.577e-05
p2 0.0002826
p3 6.669
p4 0.0002472
p5 0.00172
Counts
Residual (Track - Measured) (m)

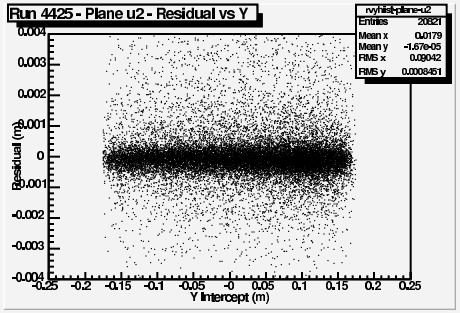

Run - Plane v2 - Residual
xhist-plane-v2
Entries 1173
Mean 2.172e-05
RMS 0.000893
p0 111.7
p1 -6.055e-05
p2 0.0002948
p3 6.052
p4 0.0001101
p5 0.001897
Counts
Residual (Track - Measured) (m)

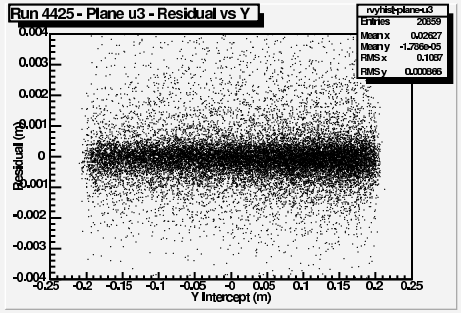

Run - Plane v3 - Residual
xhist-plane-v3
Entries 1159
Mean -2.812e-05
RMS 0.0009041
p0 84.73
p1 -0.0001014
p2 0.0003677
p3 6.746
p4 -0.0001879
p5 0.001617
Counts
Residual (Track - Measured) (m)

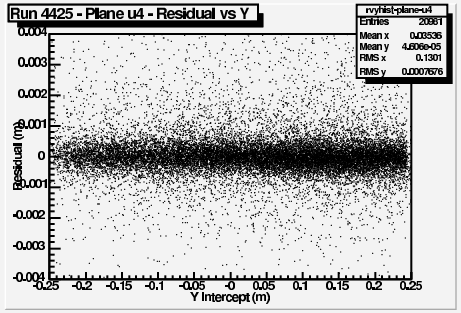

Run - Plane v4 - Residual
xhist-plane-v4
Entries 1160
Mean 8.051e-06
RMS 0.0008266
p0 99.46
p1 -5.96e-05
p2 0.0003654
p3 3.67
p4 2.485e-06
p5 0.002088
Counts
Residual (Track - Measured) (m)

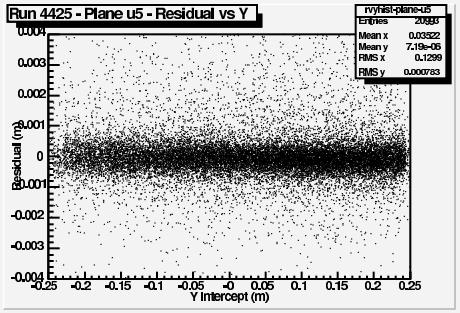

Run - Plane v5 - Residual
xhist-plane-v5
Entries 1168
Mean 2.921e-05
RMS 0.0007692
p0 101.6
p1 -4.959e-05
p2 0.0003537
p3 4.95
p4 0.0002921
p5 0.001612
Counts
Residual (Track - Measured) (m)

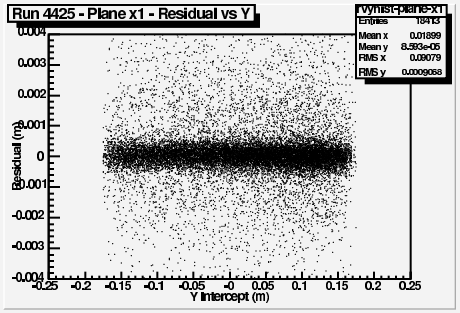

Run 4425 - Plane u1 - Residual vs Y
rvyhist-plane-u1
Entries 20576
Mean x 0.01786
Mean y -3.068e-05
RMS x 0.09036
RMS y 0.0008739
Residual (m)
Y Intercept (m)

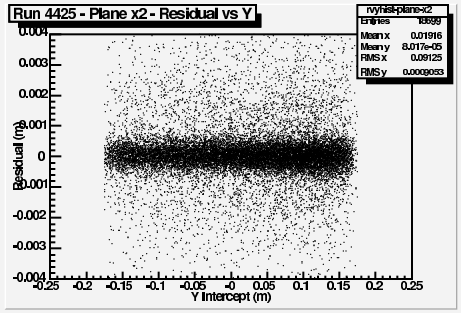

Run 4425 - Plane u2 - Residual vs Y
rvyhist-plane-u2
Entries 20821
Mean x 0.0179
Mean y -1.67e-05
RMS x 0.09042
RMS y 0.0008451
Residual (m)
Y Intercept (m)

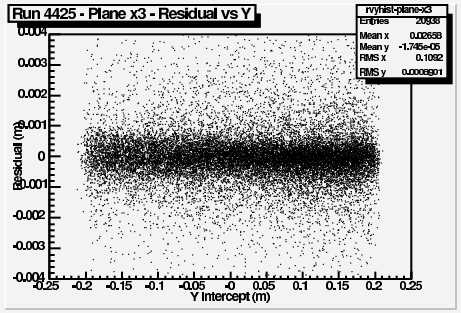

Run 4425 - Plane u3 - Residual vs Y
rvyhist-plane-u3
Entries 20859
Mean x 0.02627
Mean y -1.786e-05
RMS x 0.1037
RMS y 0.000888
Residual (m)
Y Intercept (m)

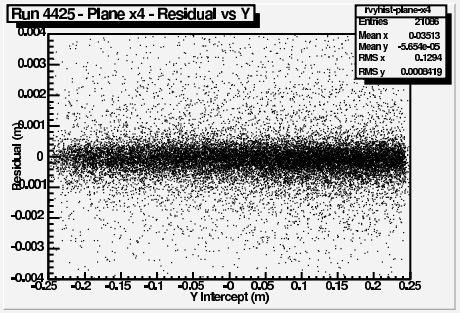

Run 4425 - Plane u4 - Residual vs Y
rvyhist-plane-u4
Entries 20981
Mean x 0.03536
Mean y 4.606e-05
RMS x 0.1301
RMS y 0.0007676
Residual (m)
Y Intercept (m)

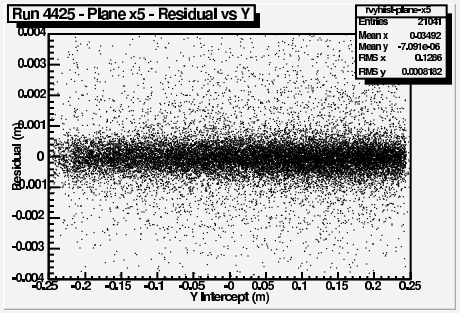

Run 4425 - Plane u5 - Residual vs Y
rvyhist-plane-u5
Entries 20933
Mean x 0.03522
Mean y 7.19e-05
RMS x 0.1299
RMS y 0.000783
Residual (m)
Y Intercept (m)

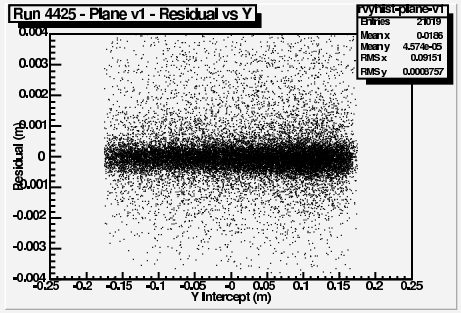

Run 4425 - Plane x1 - Residual vs Y
rvyhist-plane-x1
Entries 18413
Mean x 0.01899
Mean y 8.393e-05
RMS x 0.09079
RMS y 0.0009058
Residual (m)
Y Intercept (m)

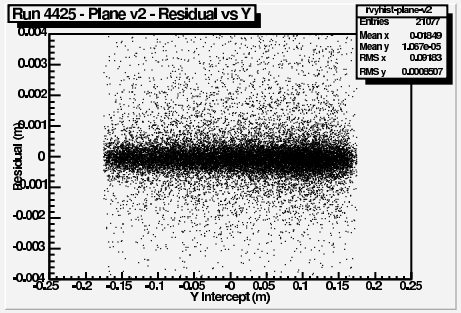

Run 4425 - Plane x2 - Residual vs Y
rvyhist-plane-x2
Entries 18699
Mean x 0.01916
Mean y 8.017e-05
RMS x 0.09125
RMS y 0.0009053
Residual (m)
Y Intercept (m)

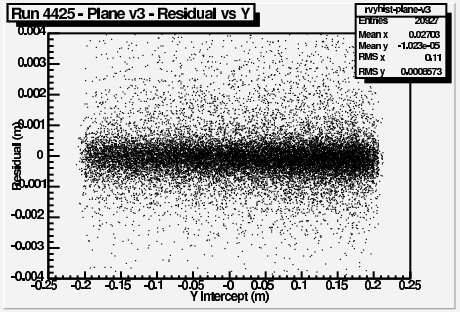

Run 4425 - Plane x3 - Residual vs Y
rvyhist-plane-x3
Entries 20938
Mean x 0.02658
Mean y -1.745e-05
RMS x 0.1092
RMS y 0.0008901
Residual (m)
Y Intercept (m)

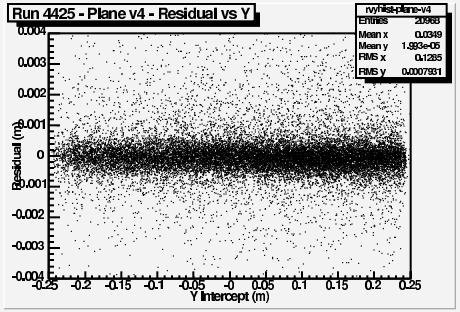

Run 4425 - Plane x4 - Residual vs Y
rvyhist-plane-x4
Entries 21038
Mean x 0.03513
Mean y -5.654e-05
RMS x 0.1294
RMS y 0.0008419
Residual (m)
Y Intercept (m)

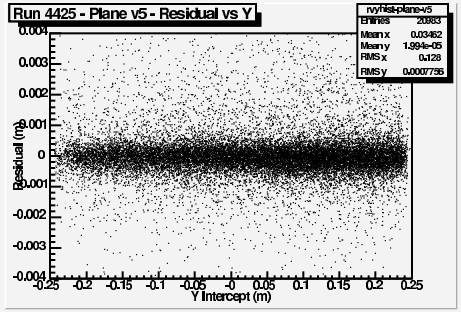

Run 4425 - Plane x5 - Residual vs Y
rvyhist-plane-x5
Entries 21041
Mean x 0.03492
Mean y -7.091e-06
RMS x 0.1286
RMS y 0.0008182
Residual (m)
Y Intercept (m)

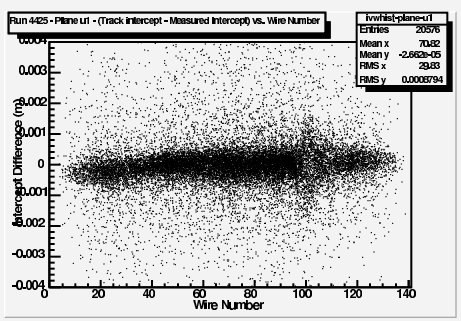

Run 4425 - Plane v1 - Residual vs Y
rvyhist-plane-v1
Entries 21016
Mean x 0.0195
Mean y 4.574e-05
RMS x 0.09151
RMS y 0.0008757
Residual (m)
Y Intercept (m)

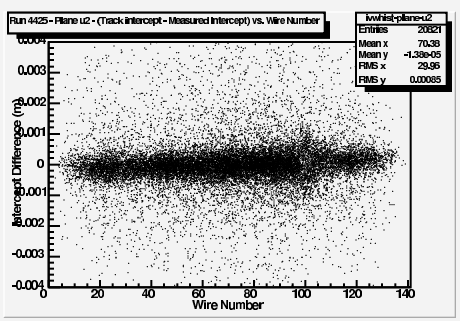

Run 4425 - Plane v2 - Residual vs Y
rvyhist-plane-v2
Entries 21077
Mean x 0.01849
Mean y 1.067e-05
RMS x 0.09183
RMS y 0.0008507
Residual (m)
Y Intercept (m)

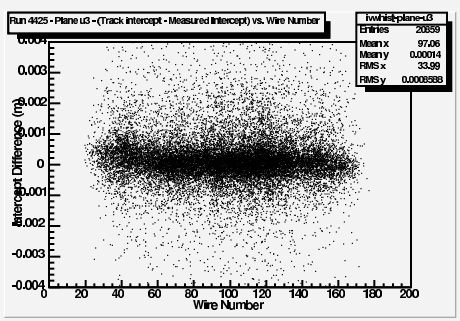

Run 4425 - Plane v3 - Residual vs Y
rvyhist-plane-v3
Entries 20827
Mean x 0.02703
Mean y -1.023e-05
RMS x 0.11
RMS y 0.0008573
Residual (m)
Y Intercept (m)

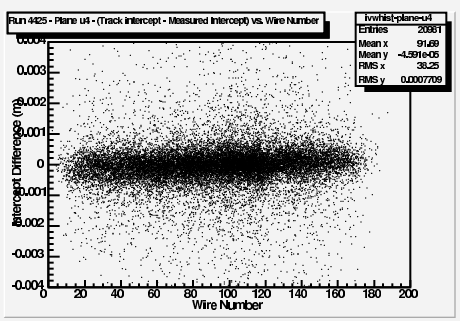

Run 4425 - Plane v4 - Residual vs Y
rvyhist-plane-v4
Entries 20988
Mean x 0.0349
Mean y 1.993e-05
RMS x 0.1235
RMS y 0.0007931
Residual (m)
Y Intercept (m)

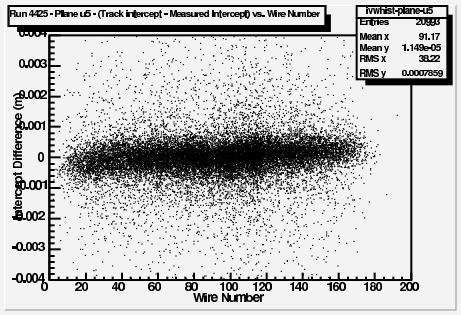

Run 4425 - Plane v5 - Residual vs Y
rvyhist-plane-v5
Entries 20883
Mean x 0.03462
Mean y 1.994e-05
RMS x 0.128
RMS y 0.0007756
Residual (m)
Y Intercept (m)

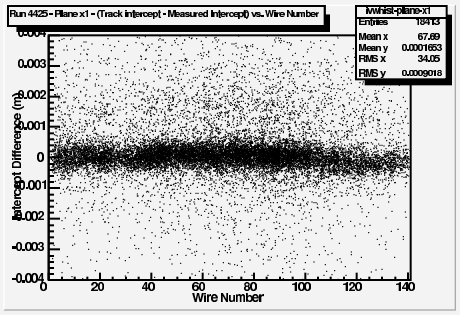

Run 4425 - Plane u1 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-u1
Entries 20576
Mean x 70.82
Mean y -2.662e-05
RMS x 29.89
RMS y 0.0008794
Intercept Difference (m)
Wire Number

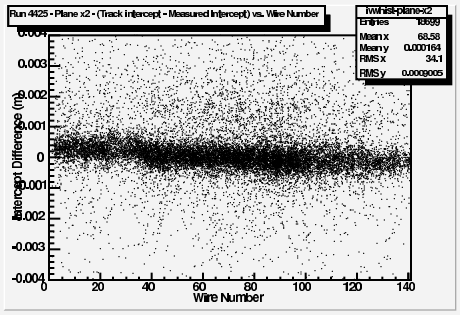

Run 4425 - Plane u2 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-u2
Entries 20821
Mean x 70.38
Mean y -1.38e-05
RMS x 29.96
RMS y 0.00085
Intercept Difference (m)
Wire Number

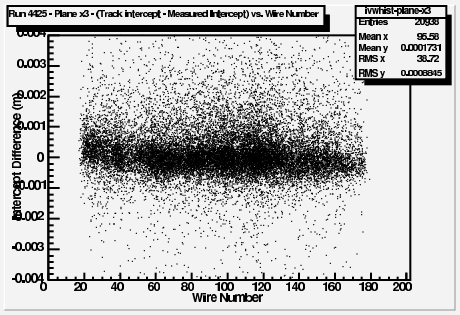

Run 4425 - Plane u3 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-u3
Entries 20859
Mean x 97.06
Mean y 0.00014
RMS x 33.99
RMS y 0.0008388
Intercept Difference (m)
Wire Number

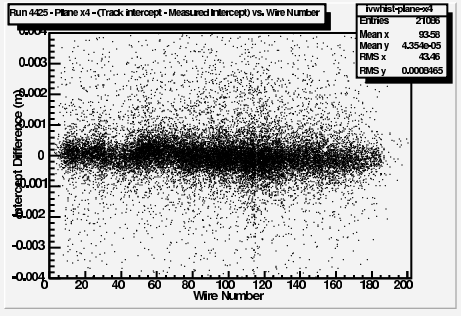

Run 4425 - Plane u4 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-u4
Entries 20981
Mean x 91.69
Mean y -4.991e-05
RMS x 38.25
RMS y 0.0007709
Intercept Difference (m)
Wire Number

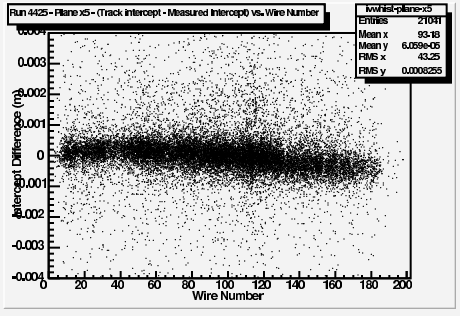

Run 4425 - Plane u5 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-u5
Entries 20933
Mean x 91.17
Mean y 1.149e-05
RMS x 38.22
RMS y 0.0007859
Intercept Difference (m)
Wire Number

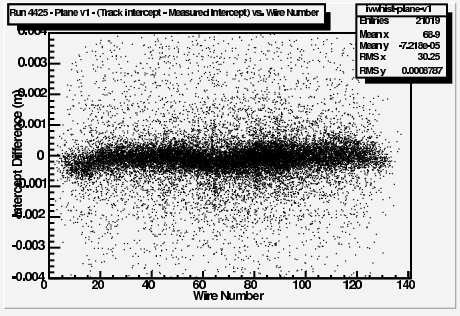

Run 4425 - Plane x1 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-x1
Entries 18413
Mean x 67.69
Mean y 0.0001653
RMS x 34.05
RMS y 0.0009018
Intercept Difference (m)
Wire Number

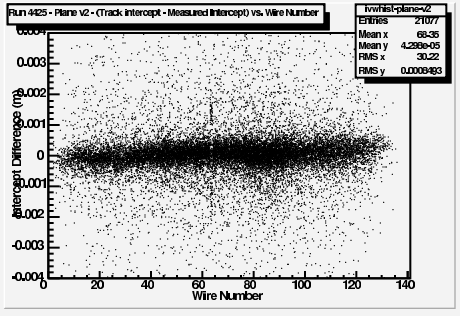

Run 4425 - Plane x2 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-x2
Entries 18699
Mean x 68.58
Mean y 0.000164
RMS x 34.1
RMS y 0.0009005
Intercept Difference (m)
Wire Number

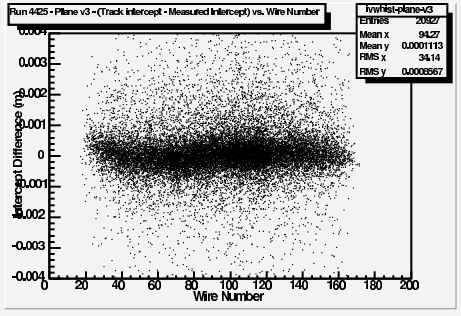

Run 4425 - Plane x3 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-x3
Entries 20938
Mean x 95.58
Mean y 0.0001721
RMS x 38.72
RMS y 0.0008845
Intercept Difference (m)
Wire Number

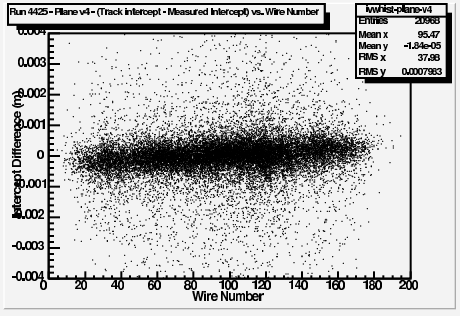

Run 4425 - Plane x4 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-x4
Entries 21033
Mean x 93.58
Mean y 4.354e-05
RMS x 43.46
RMS y 0.0008465
Intercept Difference (m)
Wire Number

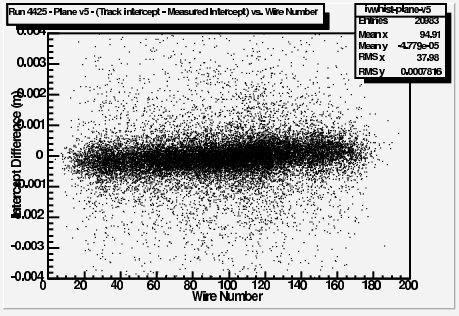

Run 4425 - Plane x5 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-x5
Entries 21041
Mean x 93.18
Mean y 6.059e-05
RMS x 43.25
RMS y 0.0008255
Intercept Difference (m)
Wire Number

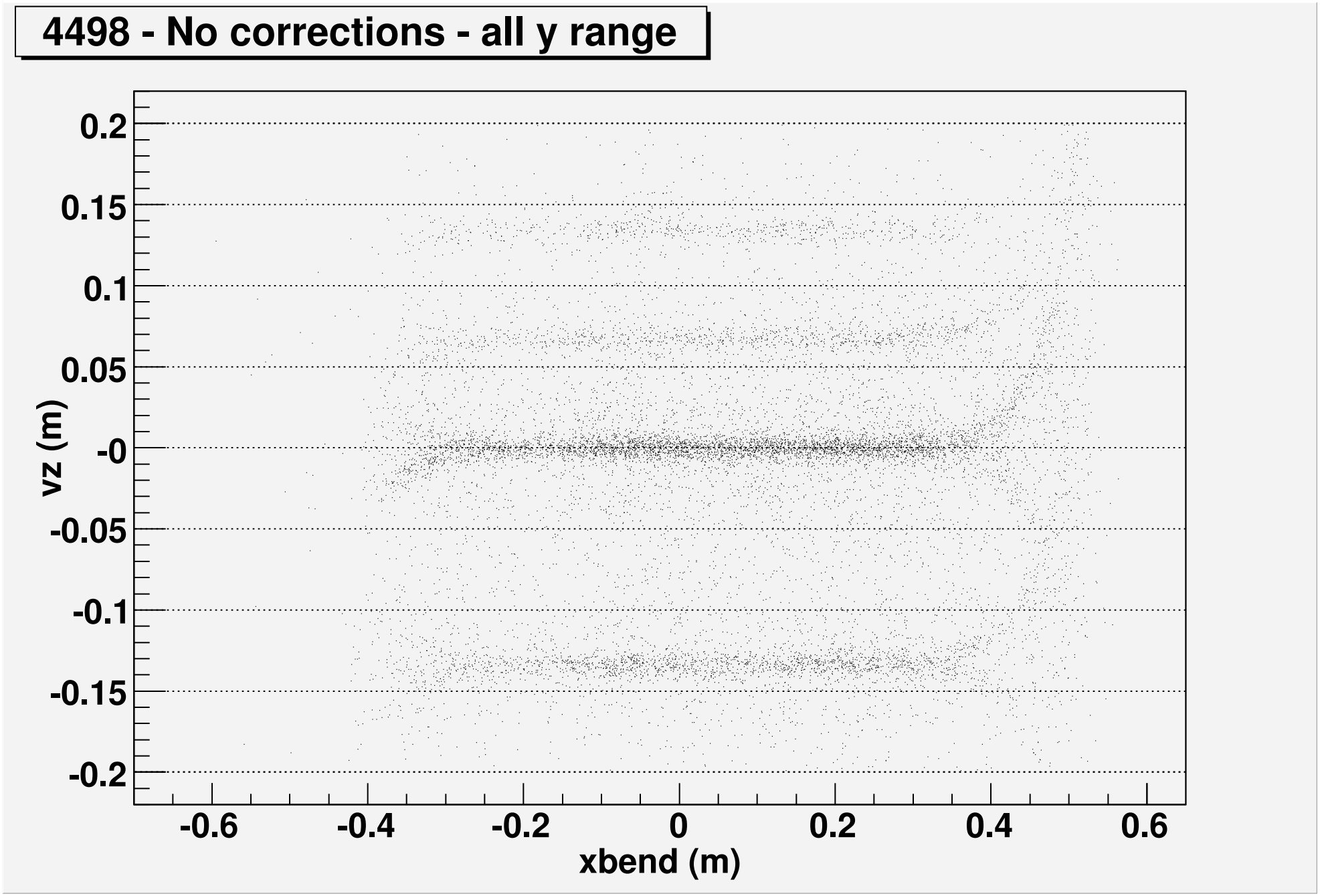

Run 4425 - Plane v1 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-v1
Entries 21018
Mean x 69.9
Mean y -7.218e-05
RMS x 30.25
RMS y 0.0008787
Intercept Difference (m)
Wire Number

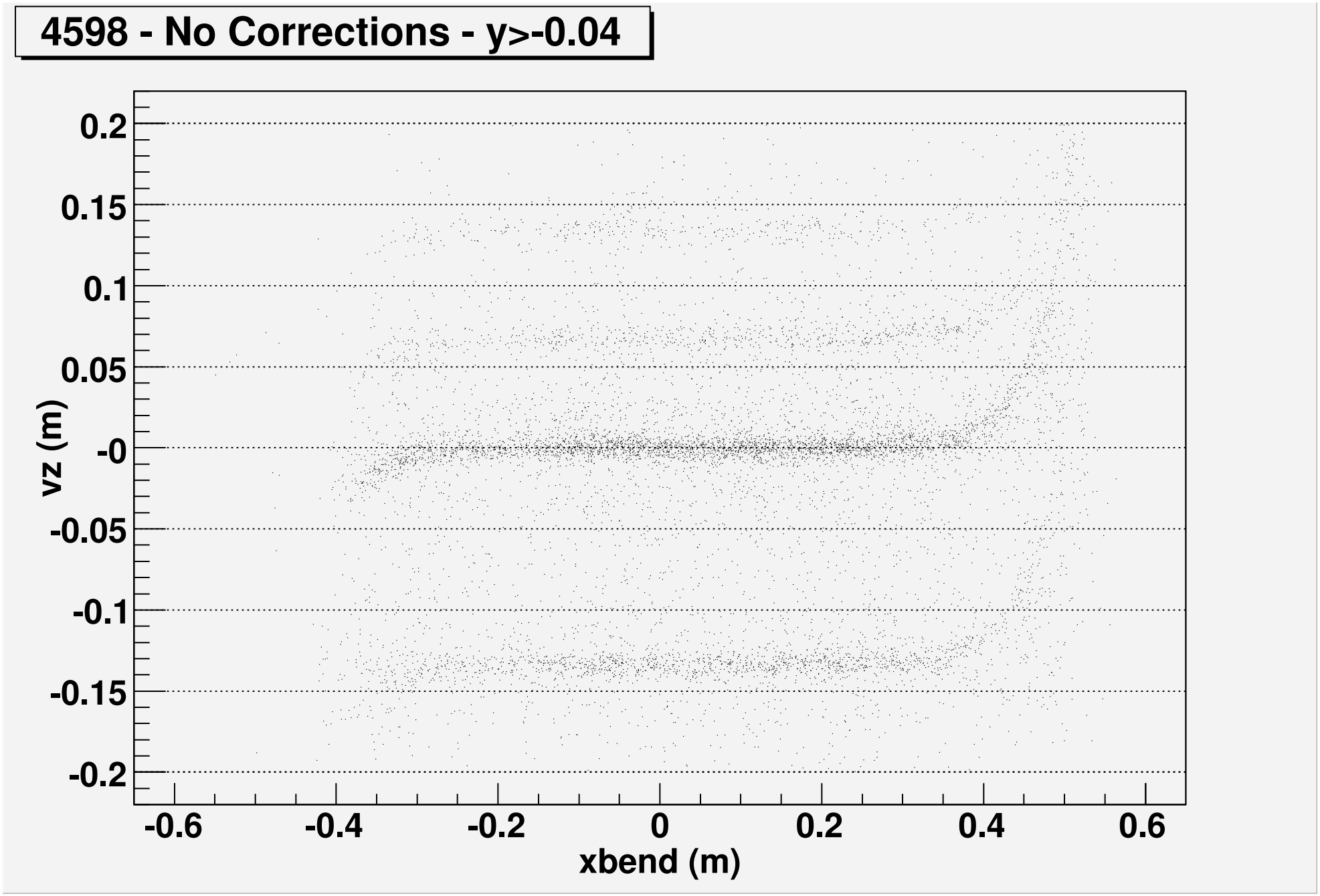

Run 4425 - Plane v2 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-v2
Entries 21077
Mean x 68.35
Mean y 4.238e-05
RMS x 30.22
RMS y 0.0008493
Intercept Difference (m)
Wire Number

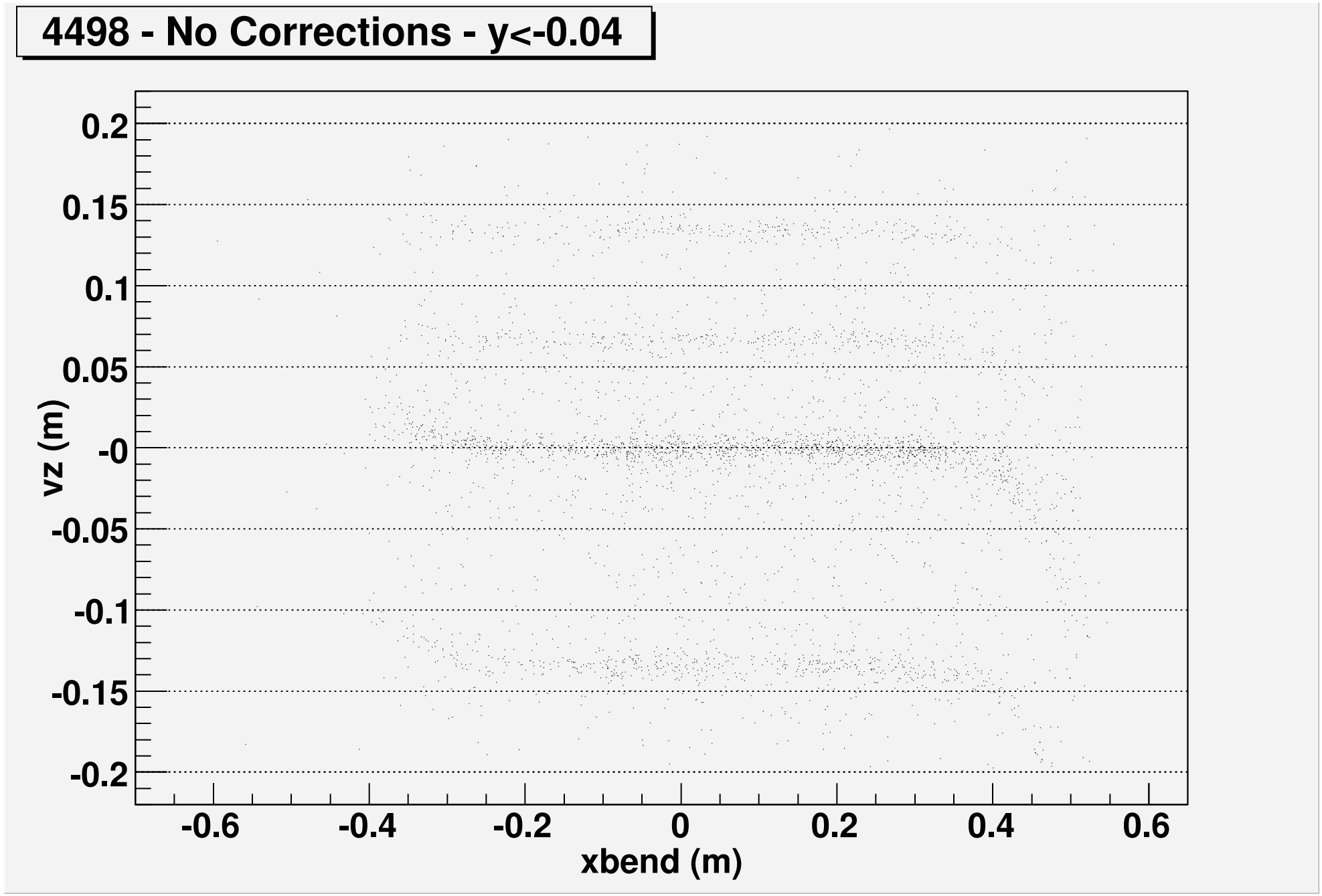

Run 4425 - Plane v3 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-v3
Entries 20827
Mean x 94.27
Mean y 0.0001113
RMS x 34.14
RMS y 0.0008567
Intercept Difference (m)
Wire Number

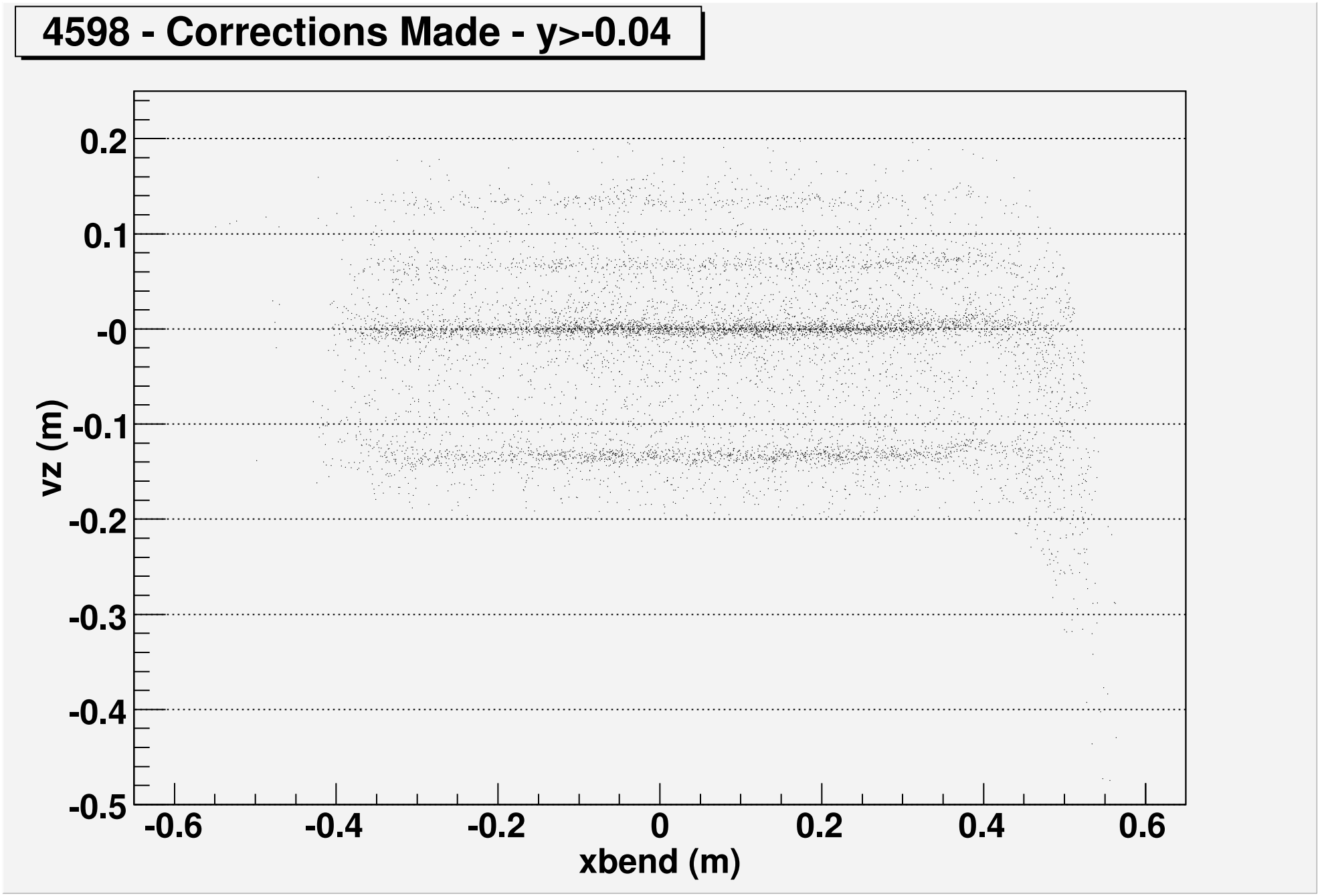

Run 4425 - Plane v4 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-v4
Entries 20988
Mean x 95.47
Mean y -1.84e-05
RMS x 37.98
RMS y 0.0007983
Intercept Difference (m)
Wire Number

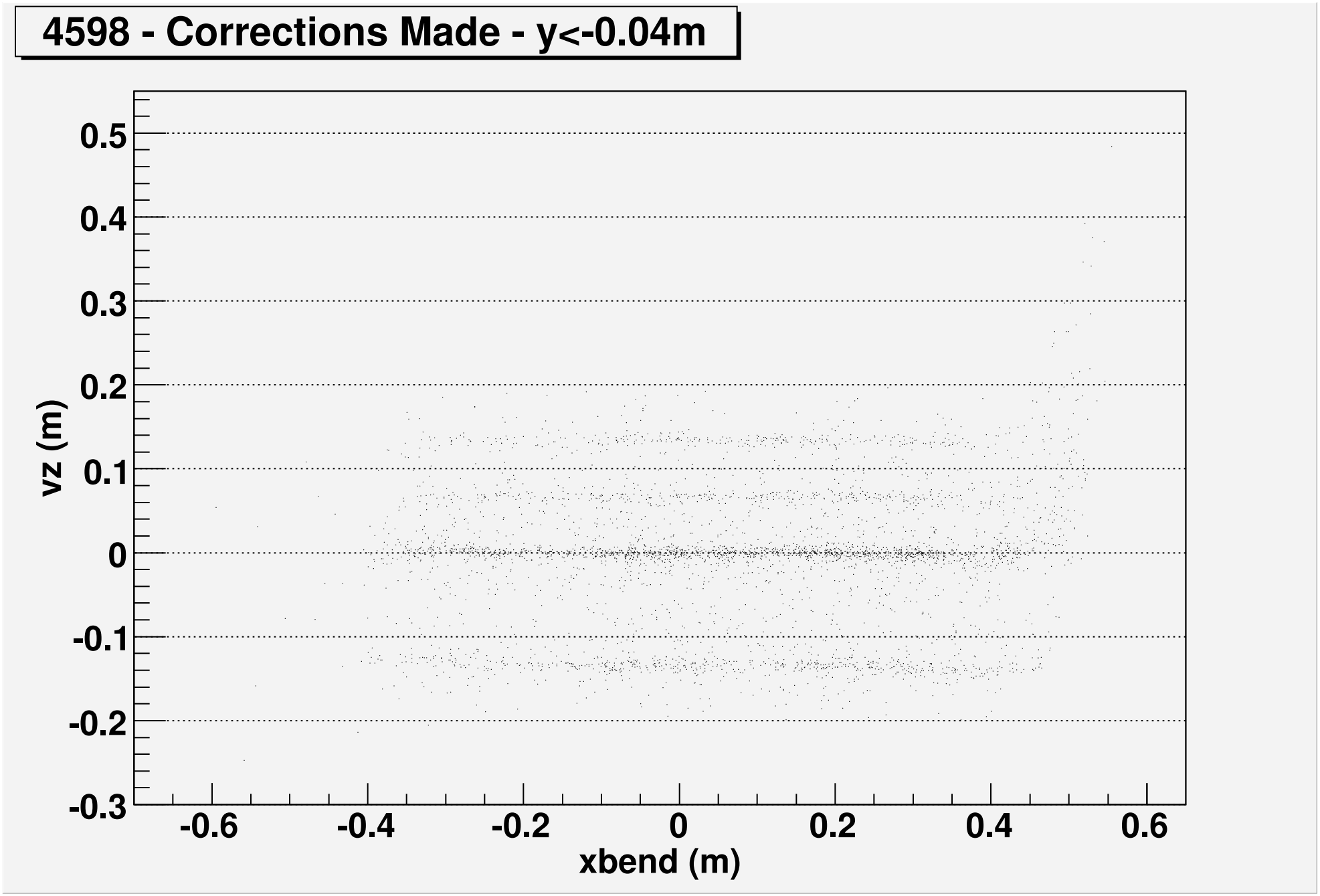

Run 4425 - Plane v5 - (Track intercept - Measured Intercept) vs. Wire Number
lvwhist-plane-v5
Entries 20883
Mean x 94.91
Mean y -4.779e-05
RMS x 37.98
RMS y 0.0007816
Intercept Difference (m)
Wire Number

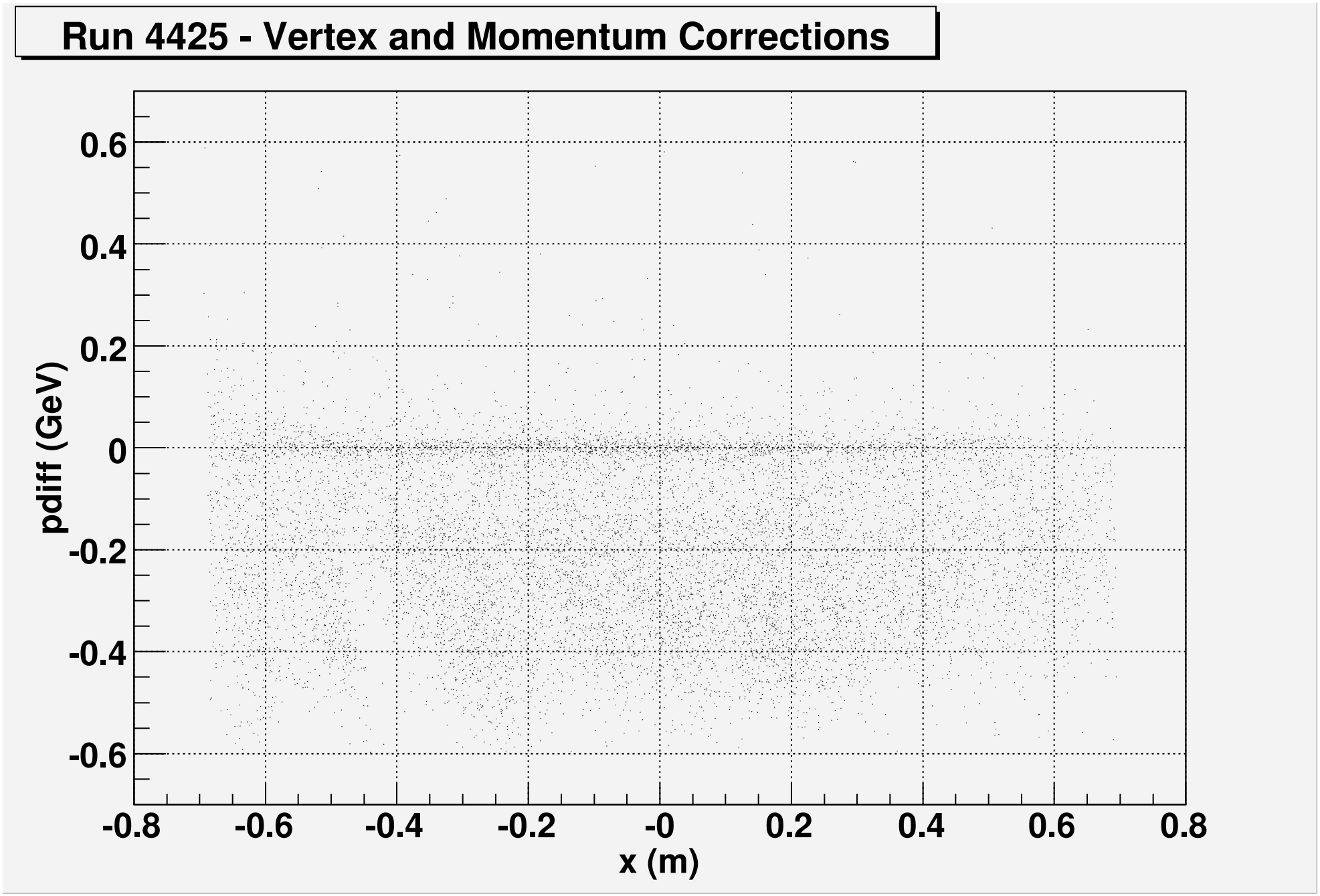

4498 - No corrections - all y range
vz (m)
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
xbend (m)

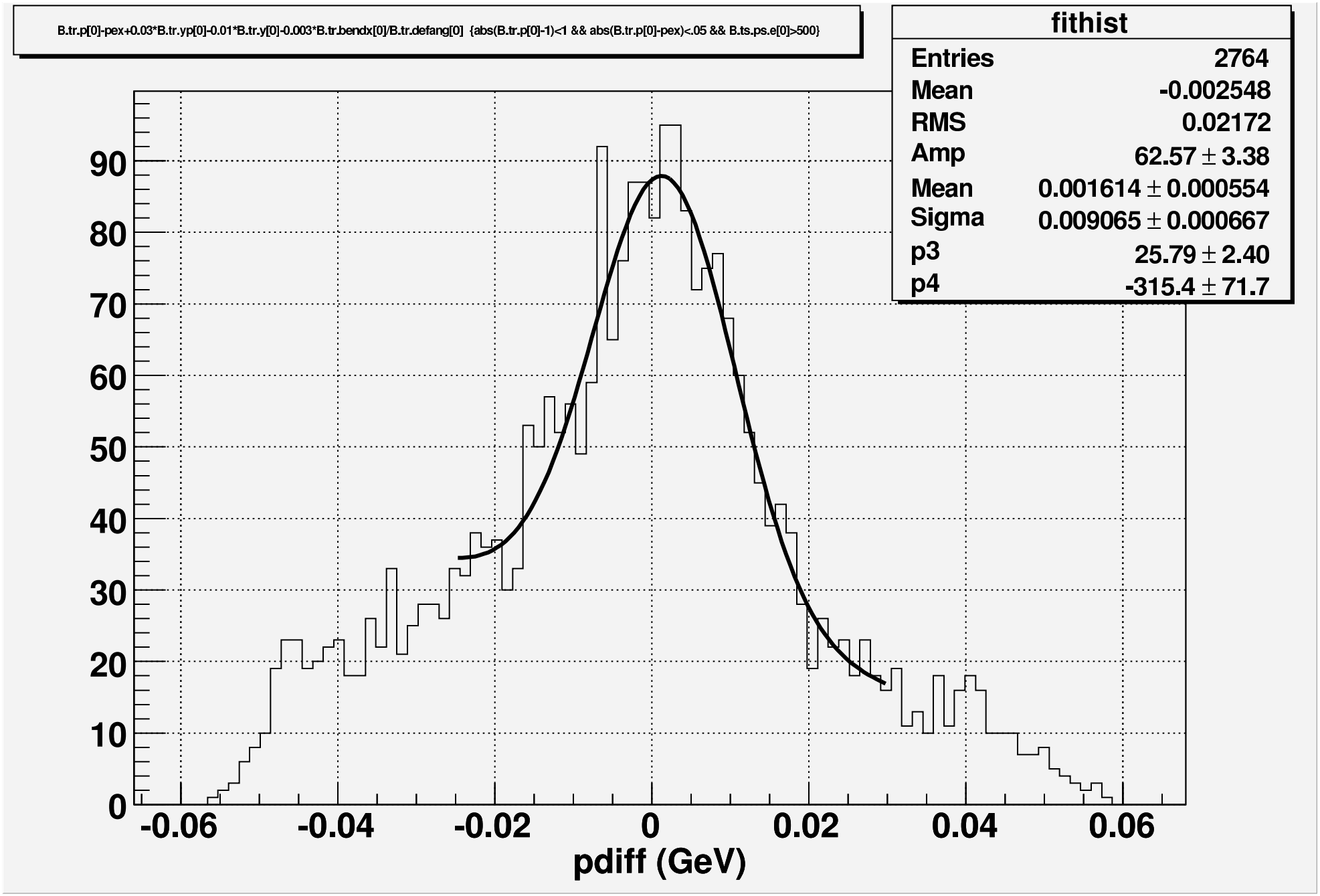

4598 - No Corrections - y>-0.04
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
vz (m)
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
xbend (m)

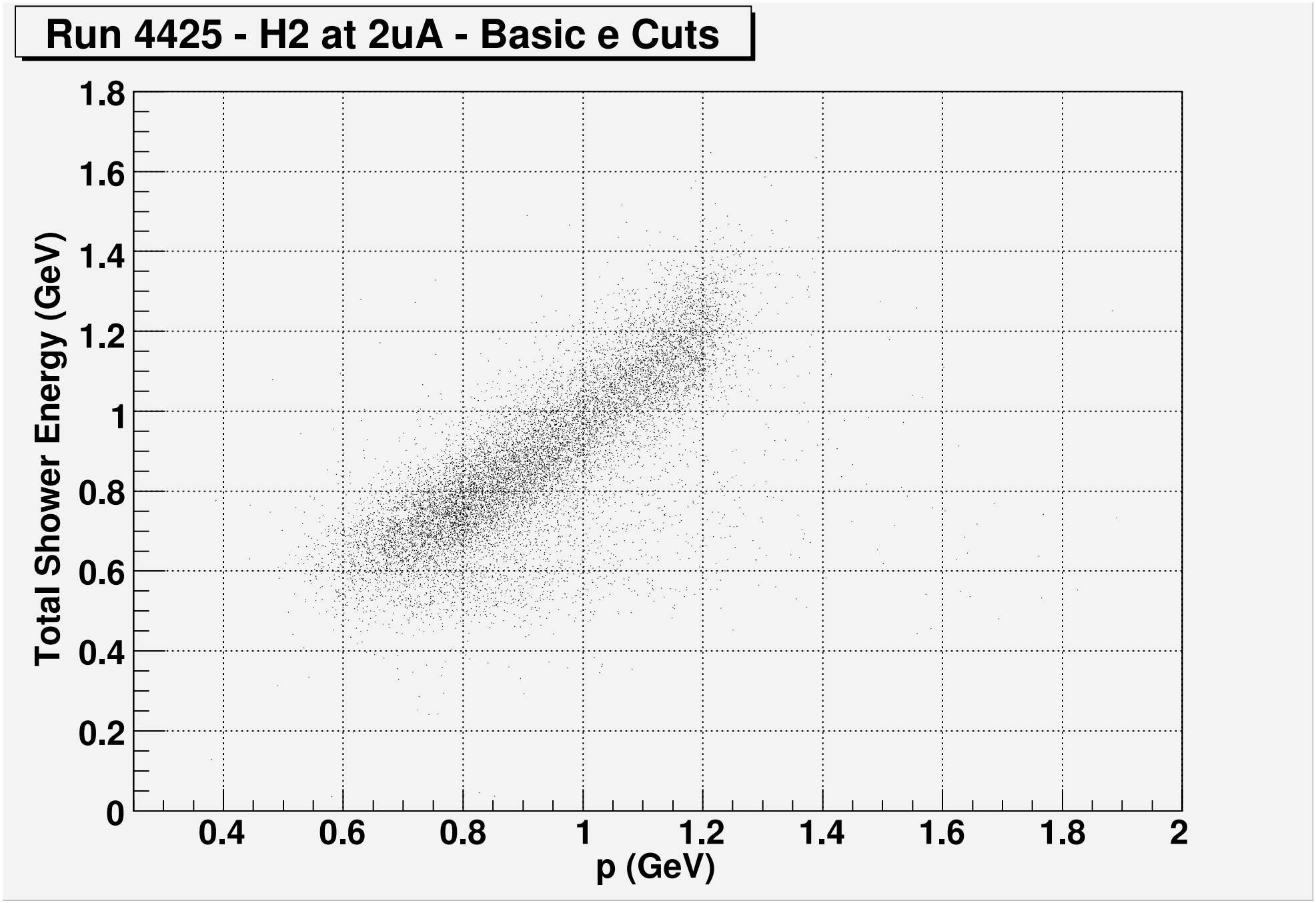

4498 - No Corrections - y<-0.04
0.2
0.15
0.1
0.05
-0
-0.05
-0.1
-0.15
-0.2
vz (m)
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
xbend (m)

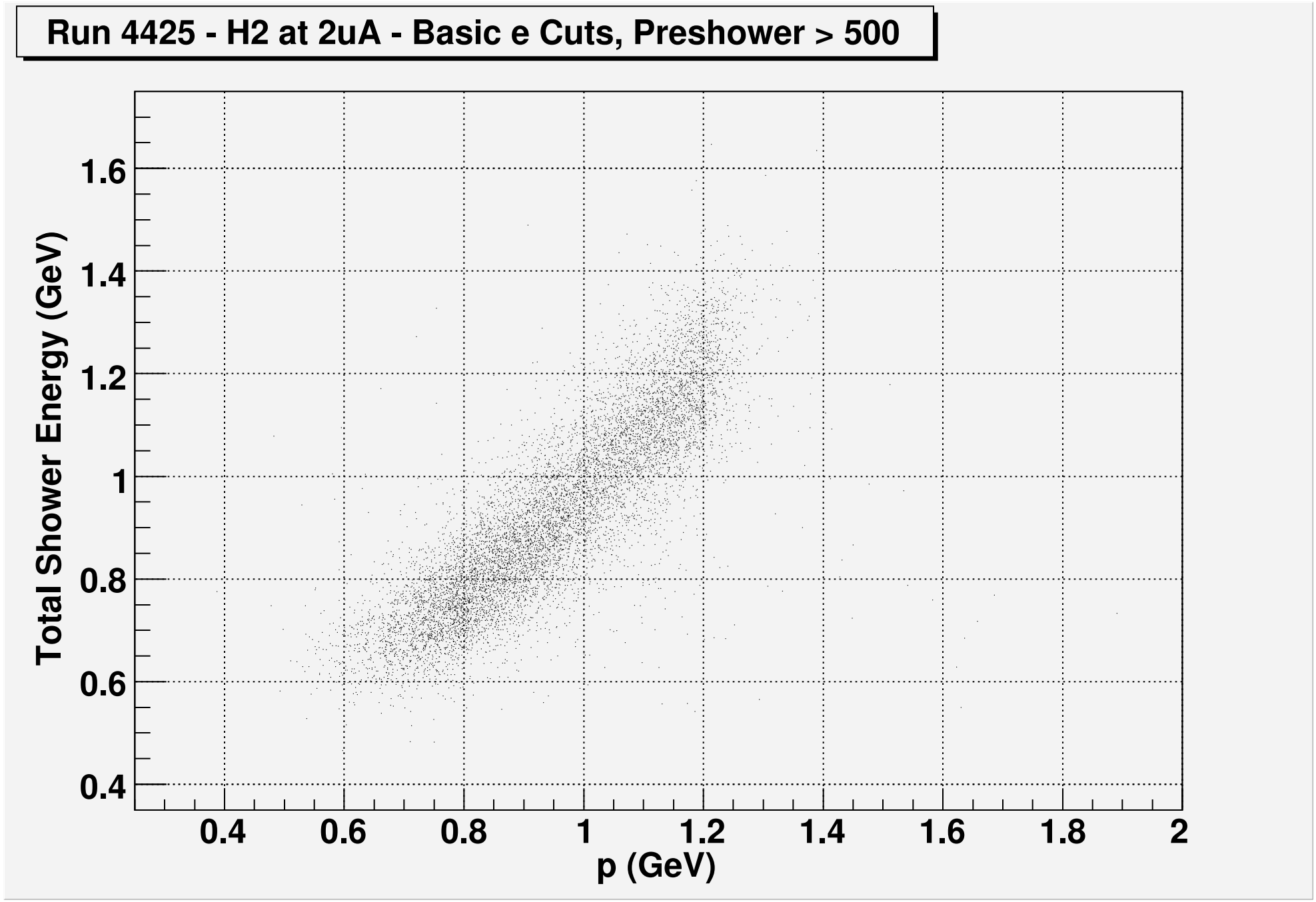

4598 - Corrections Made - y>-0.04
0.2
0.1
-0
-0.1
-0.2
-0.3
-0.4
-0.5
vz (m)
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
xbend (m)

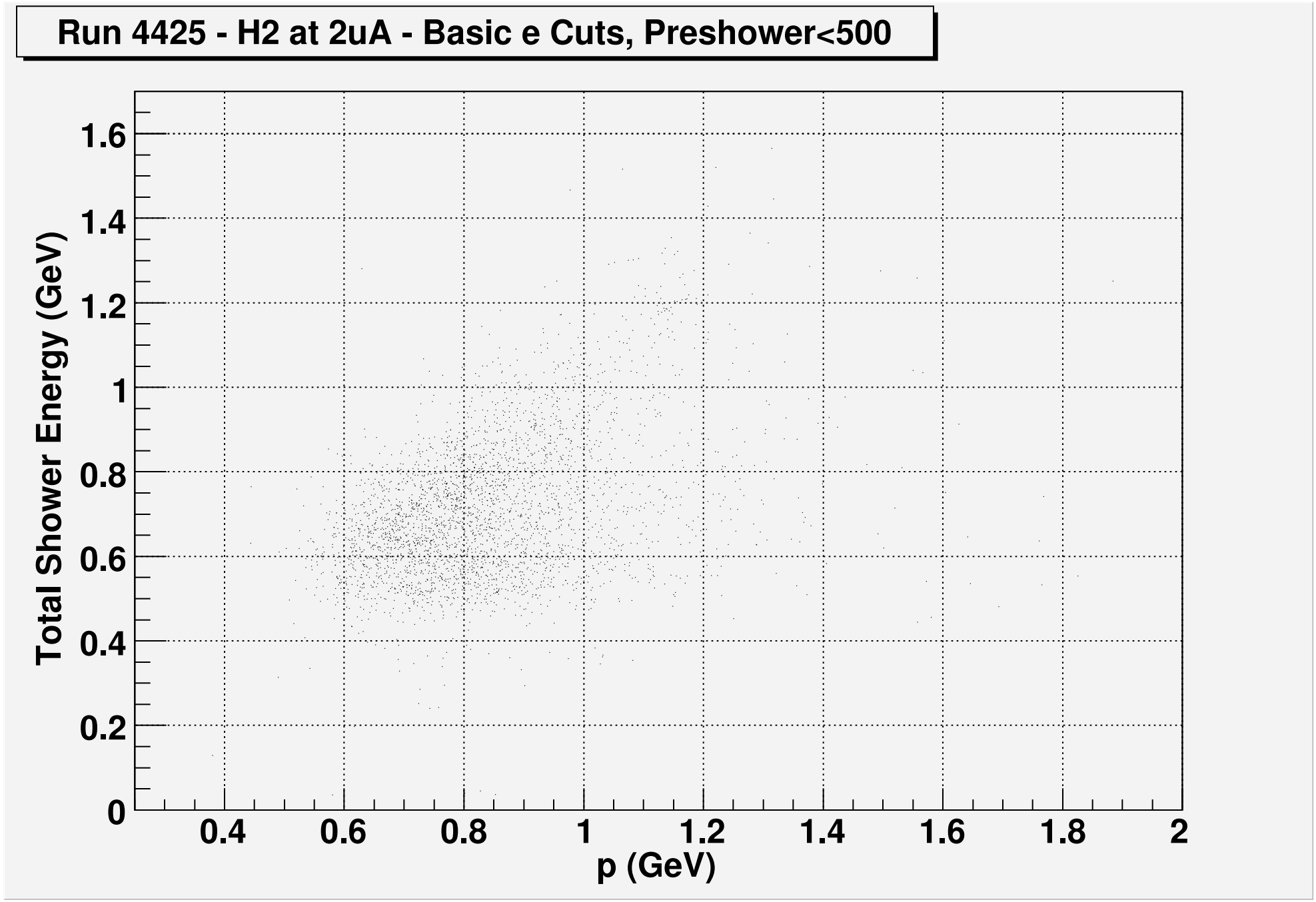

4598 - Corrections Made - y<-0.04m
vz (m)
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
xbend (m)

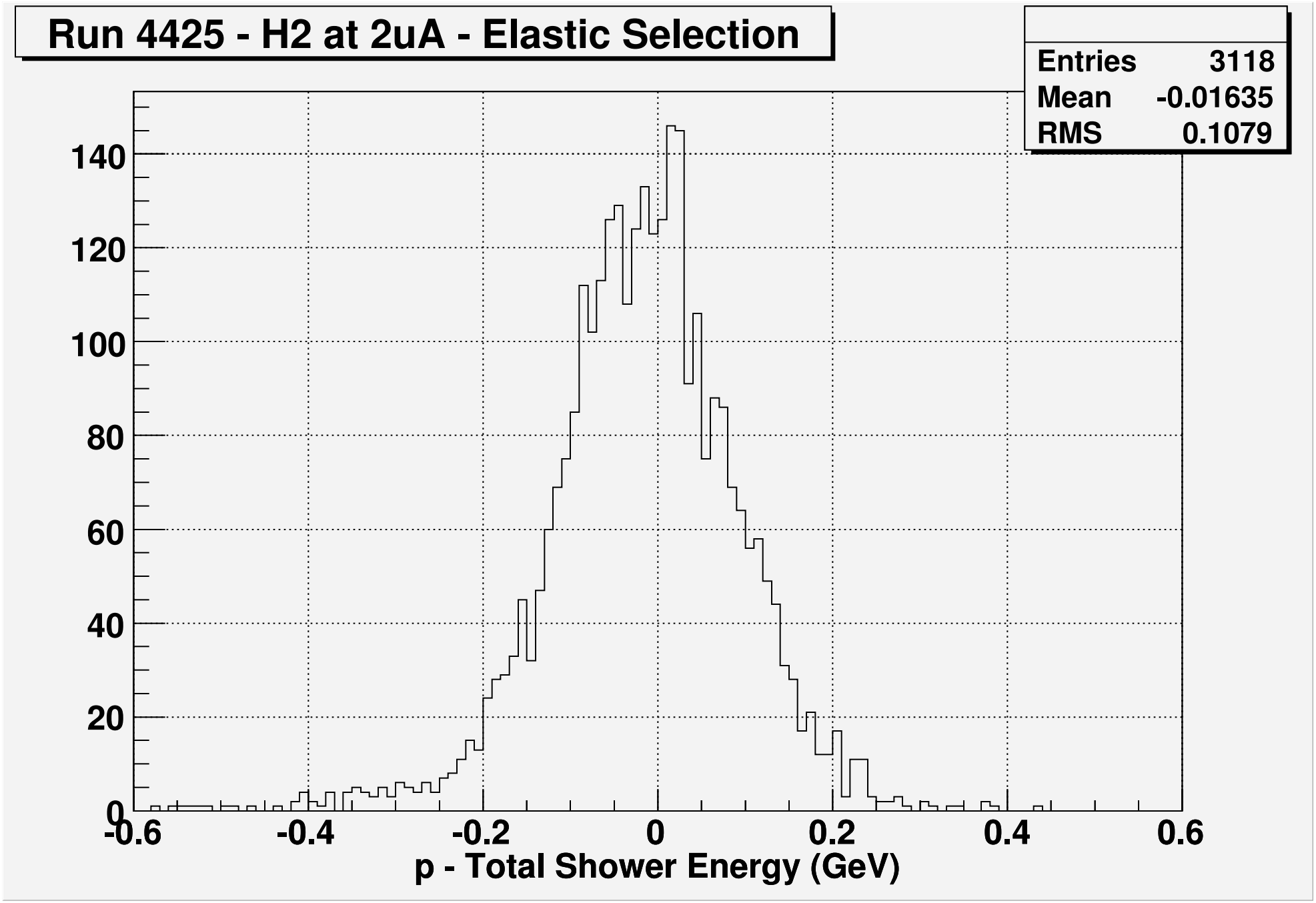

Run 4425 - Vertex and Momentum Corrections
pdiff (GeV)
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
x (m)

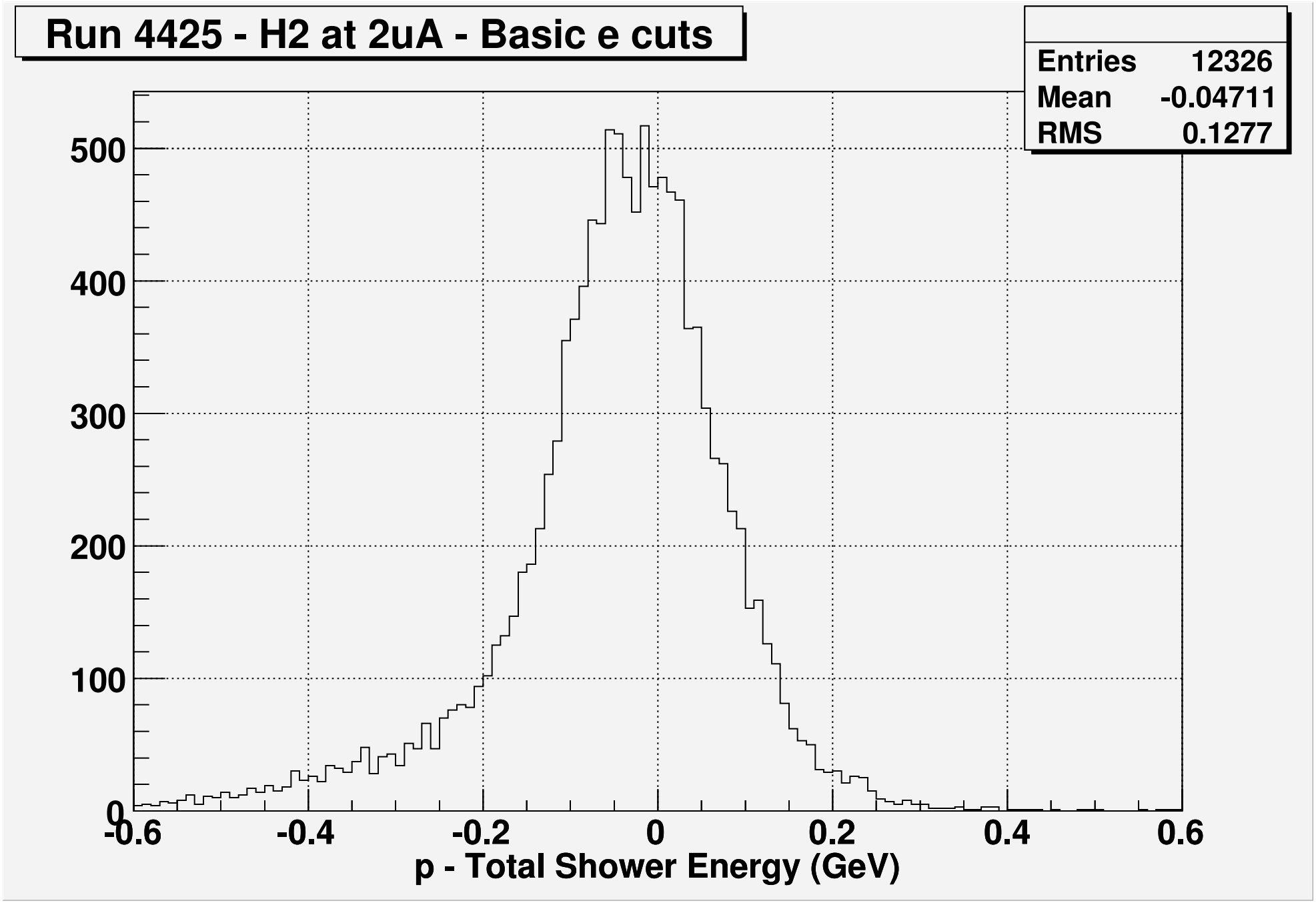

B.tr.p[0]-pex+0.03*B.tr.yp[0]-0.01*B.tr.y[0]-0.003*B.tr.bendx[0]/B.tr.defang[0] {abs(B.tr.p[0]-1)<1 && abs(B.tr.p[0]-pex)<.05 && B.ts.ps.e[0]>500}
fithist
Entries 2764
Mean -0.002548
RMS 0.02172
Amp 62.57 ± 3.38
Mean 0.001614 ± 0.000554
Sigma 0.009065 ± 0.000667
p3 25.79 ± 2.40
p4 -315.4 ± 71.7
90
80
70
60
50
40
30
20
10
0
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
pdiff (GeV)

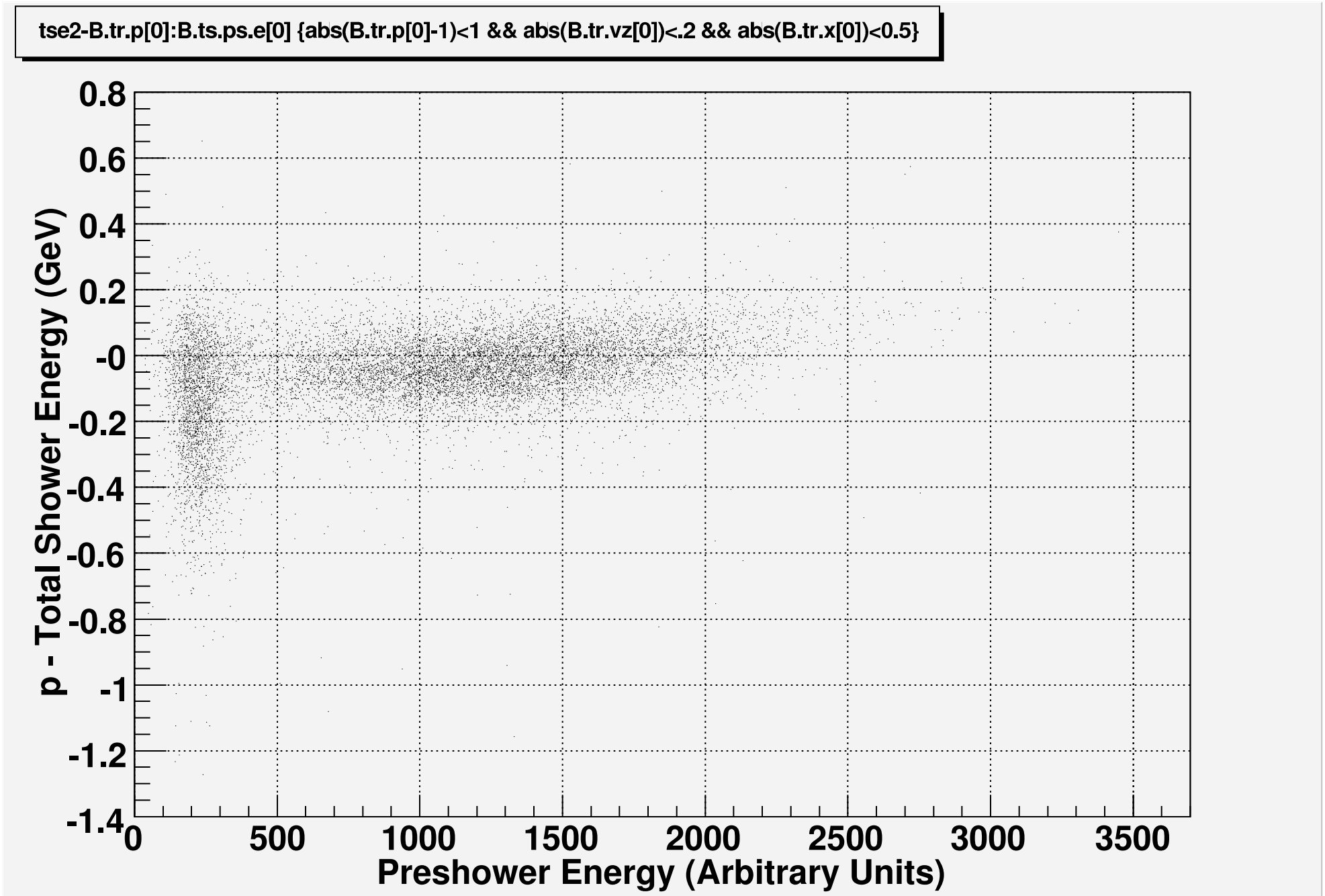

Run 4425 - H2 at 2uA - Basic e Cuts
Total Shower Energy (GeV)
p (GeV)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2


Run 4425 - H2 at 2uA - Basic e Cuts, Preshower > 500
Total Shower Energy (GeV)
0.4
0.6
0.8
1
1.2
1.4
1.6
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
p (GeV)


Run 4425 - H2 at 2uA - Basic e Cuts, Preshower<500
Total Shower Energy (GeV)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
p (GeV)


Run 4425 - H2 at 2uA - Elastic Selection
Entries 3118
Mean -0.01635
RMS 0.1079
140
120
100
80
60
40
20
0
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
p - Total Shower Energy (GeV)


Run 4425 - H2 at 2uA - Basic e cuts
Entries 12326
Mean -0.04711
RMS 0.1277
500
400
300
200
100
0
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
p - Total Shower Energy (GeV)


tse2-B.tr.p[0]:B.ts.ps.e[0] {abs(B.tr.p[0]-1)<1 && abs(B.tr.vz[0])<.2 && abs(B.tr.x[0])<0.5}
p - Total Shower Energy (GeV)
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
0
500
1000
1500
2000
2500
3000
3500
Preshower Energy (Arbitrary Units)