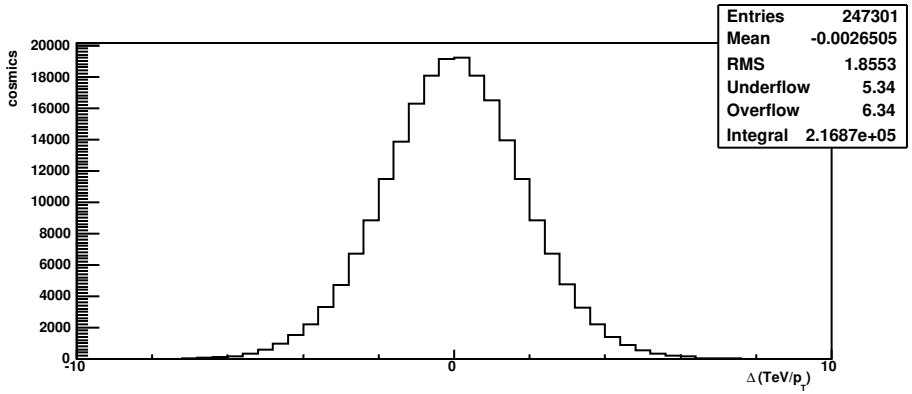
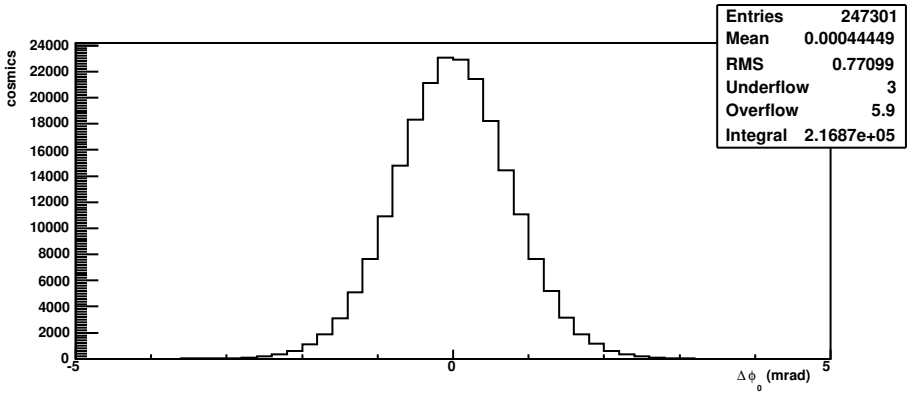
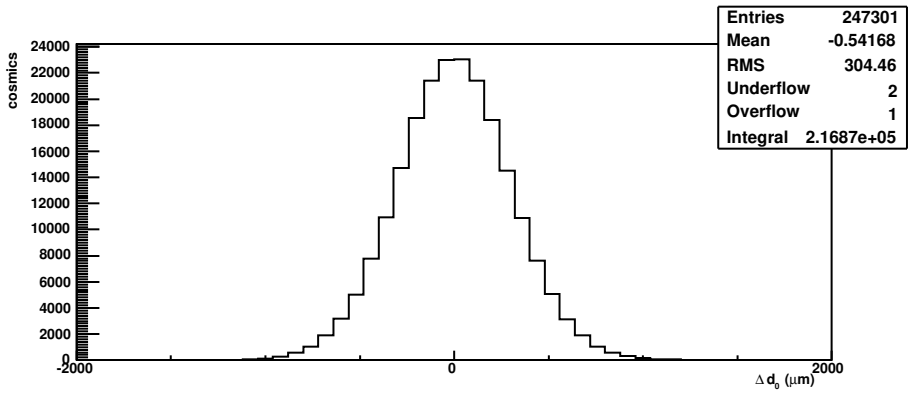
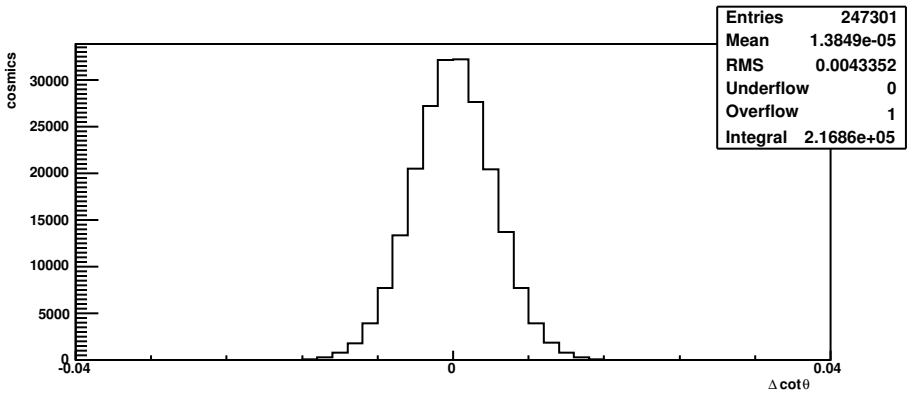
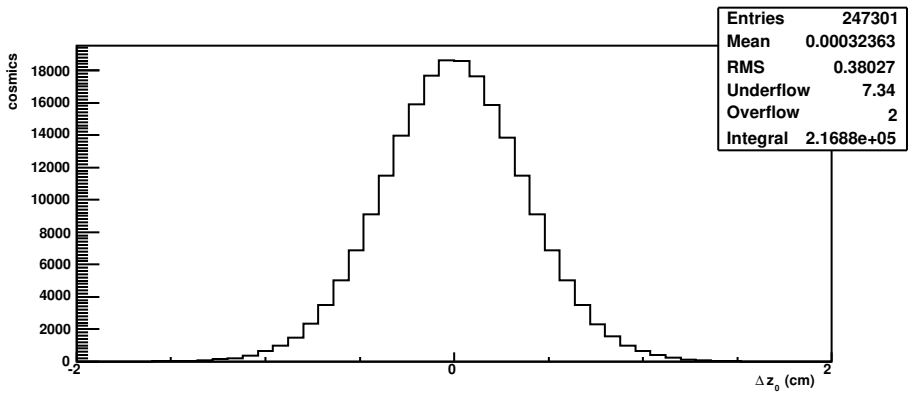
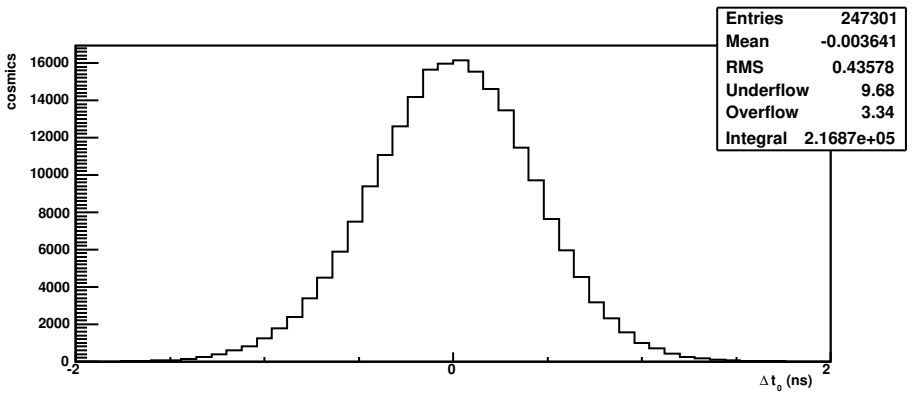

Entries 247301
Mean -0.0026505
RMS 1.8553
Underflow 5.34
Overflow 6.34
Integral 2.1687e+05
cosmics
Δ(TeV/p_T)

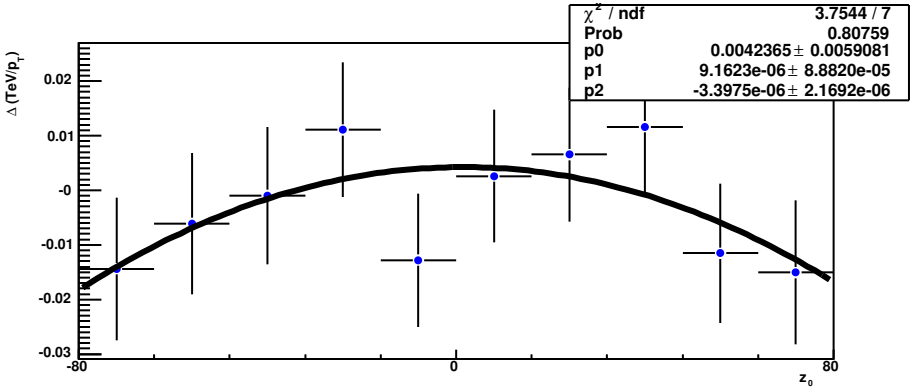

Entries 247301
Mean 0.00044449
RMS 0.77099
Underflow 3
Overflow 5.9
Integral 2.1687e+05
cosmics
Δφ_0 (mrad)

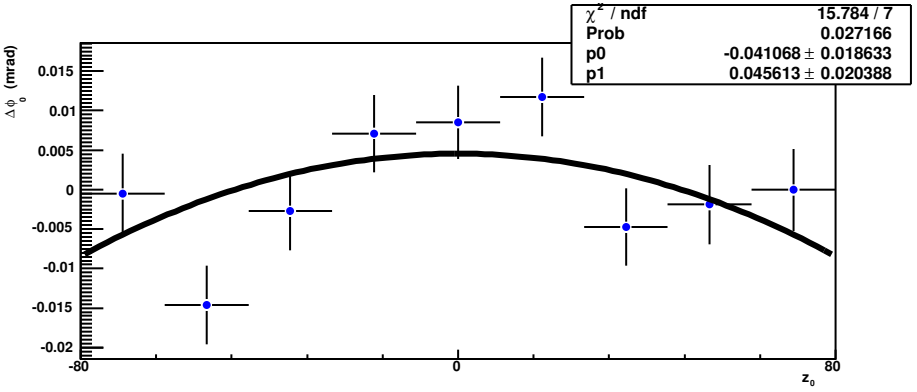

Entries 247301
Mean -0.54168
RMS 304.46
Underflow 2
Overflow 1
Integral 2.1687e+05
cosmics
Δd_0 (μm)

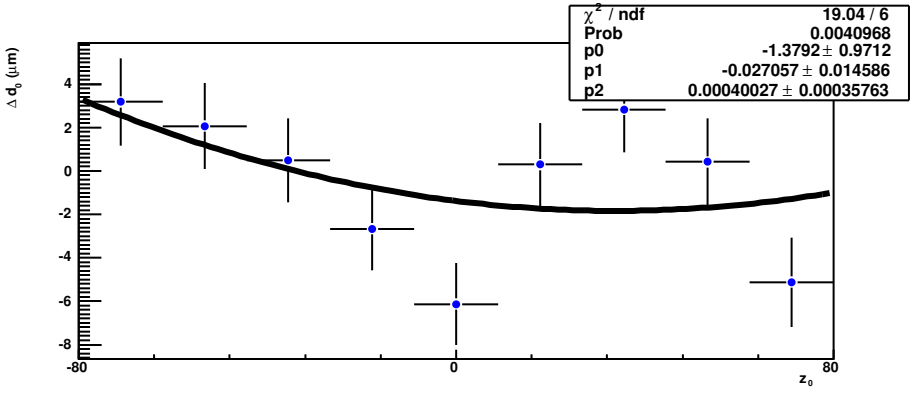

Entries 247301
Mean 1.3849e-05
RMS 0.0043352
Underflow 0
Overflow 1
Integral 2.1686e+05
cosmics
Δcotθ

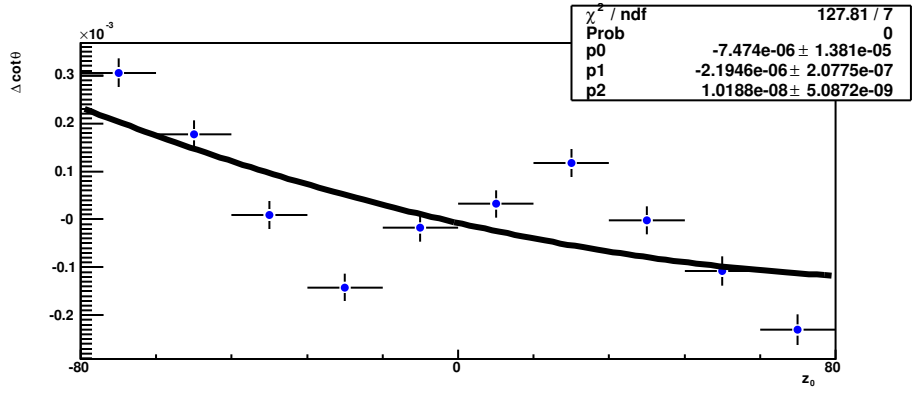

Entries 247301
Mean 0.00032363
RMS 0.38027
Underflow 7.34
Overflow 2
Integral 2.1688e+05
cosmics
Δz_0 (cm)

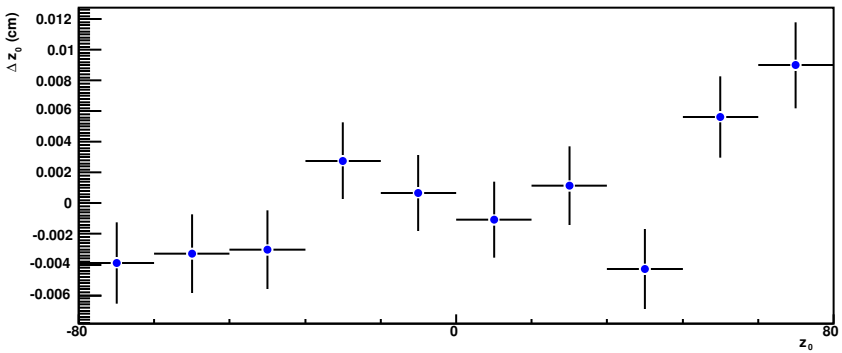

Entries 247301
Mean -0.003641
RMS 0.43578
Underflow 9.68
Overflow 3.34
Integral 2.1687e+05
cosmics
Δt_0 (ns)

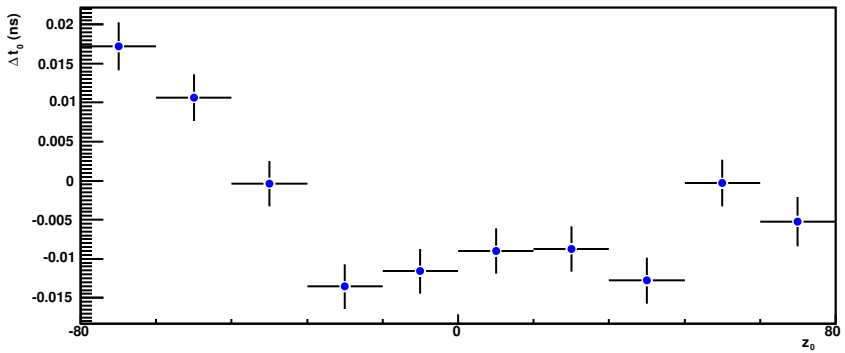

χ^2 / ndf 3.7544 / 7
Prob 0.80759
p0 0.0042365 ± 0.0059081
p1 9.1623e-06 ± 8.8820e-05
p2 -3.3975e-06 ± 2.1692e-06
Δ (TeV/p_T)
z_0

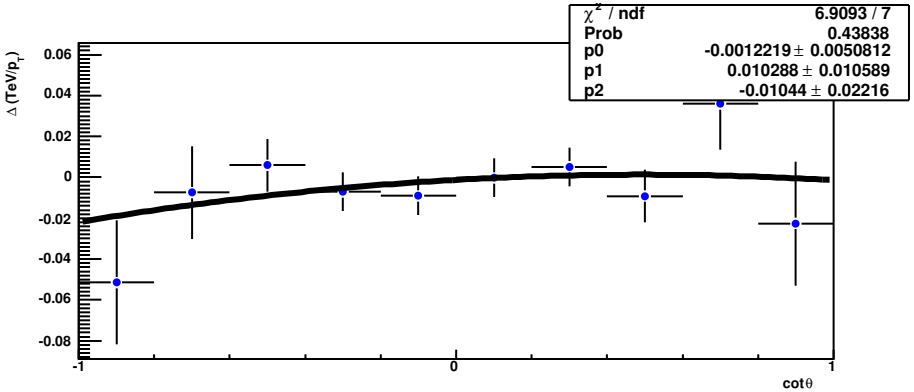

χ^2 / ndf 15.784 / 7
Prob 0.027166
p0 -0.041068 ± 0.018633
p1 0.045613 ± 0.020388
$\Delta\phi_0$ (mrad)
z_0

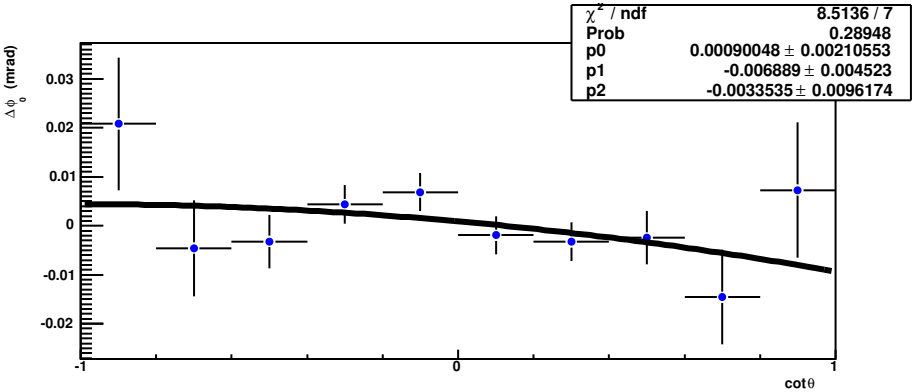

χ^2 / ndf 19.04 / 6
Prob 0.0040968
p0 -1.3792 ± 0.9712
p1 -0.027057 ± 0.014586
p2 0.00040027 ± 0.00035763
Δd_0 (μm)
z_0

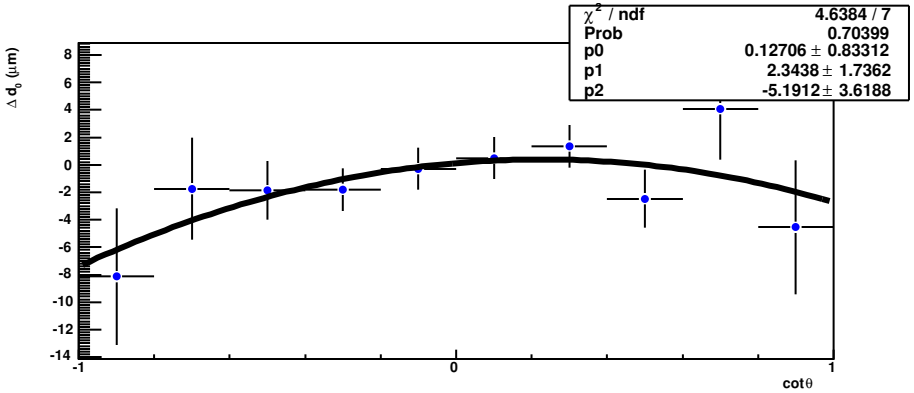

χ^2 / ndf 127.81 / 7
Prob 0
p0 -7.474e-06 ± 1.381e-05
p1 -2.1946e-06 ± 2.0775e-07
p2 1.0188e-08 ± 5.0872e-09
$\times 10^{-3}$
$\Delta\cot\theta$
z_0

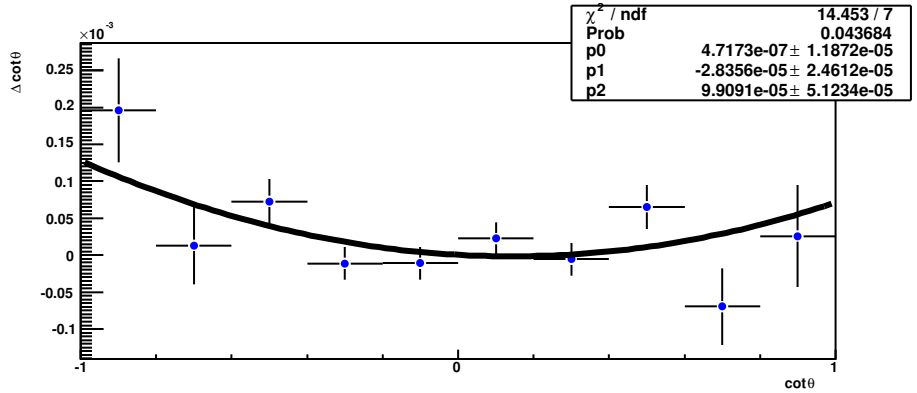

Δz_0 (cm)
z_0

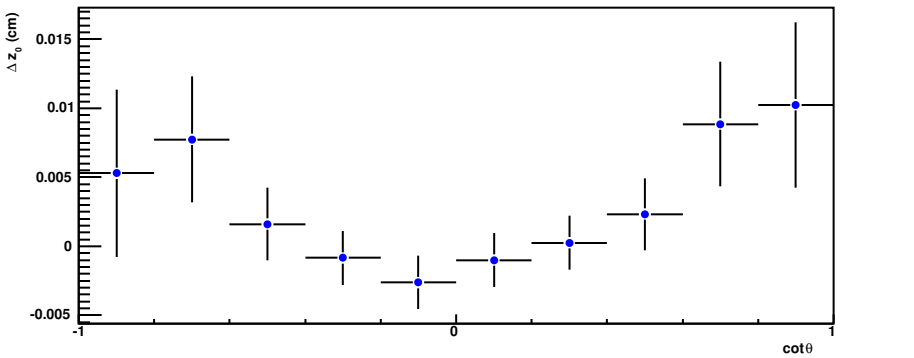

Δt_0 (ns)
z_0

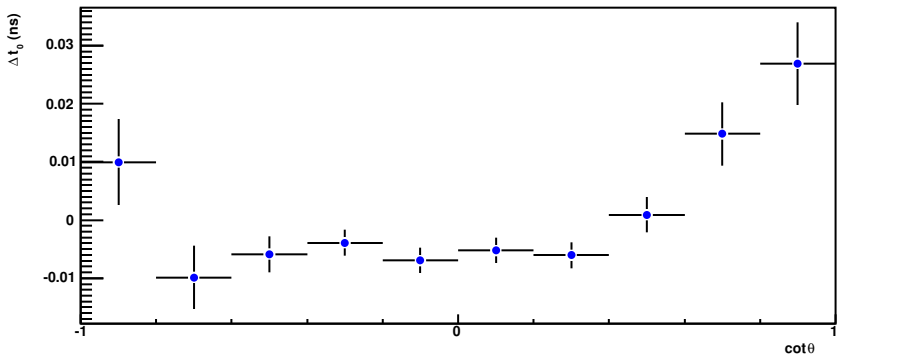

χ² / ndf 6.9093 / 7
Prob 0.43838
p0 -0.0012219 ± 0.0050812
p1 0.010288 ± 0.010589
p2 -0.01044 ± 0.02216
Δ (TeV/p_T)
cotθ

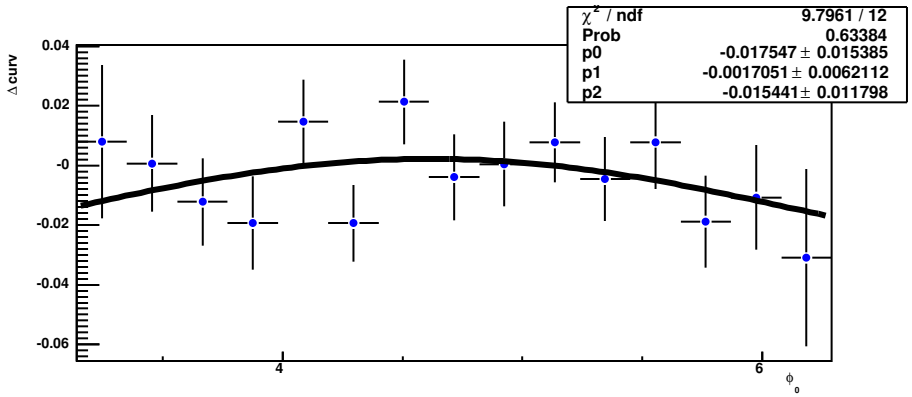

χ² / ndf 8.5136 / 7
Prob 0.28948
p0 0.00090048 ± 0.00210553
p1 -0.006889 ± 0.004523
p2 -0.0033535 ± 0.0096174
Δφ0 (mrad)
cotθ

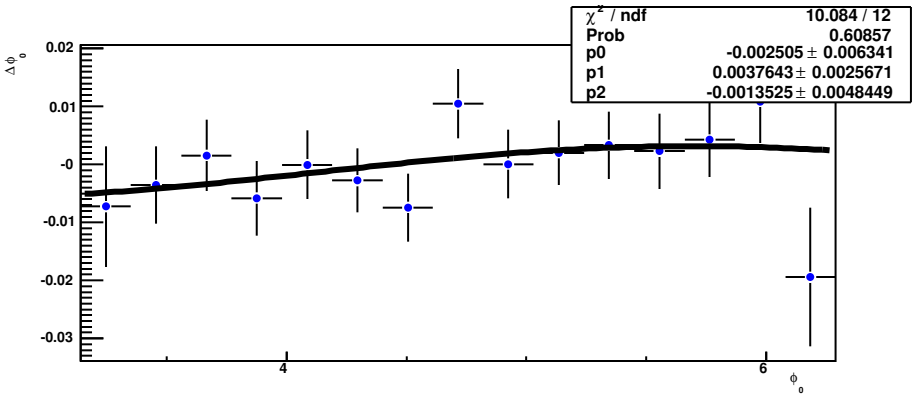

χ² / ndf 4.6384 / 7
Prob 0.70399
p0 0.12706 ± 0.83312
p1 2.3438 ± 1.7362
p2 -5.1912 ± 3.6188
Δ d0 (μm)
cotθ

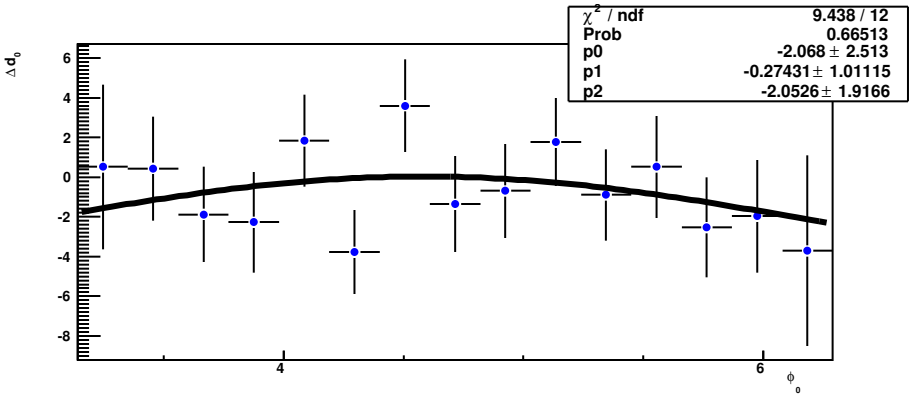

χ² / ndf 14.453 / 7
Prob 0.043684
p0 4.7173e-07 ± 1.1872e-05
p1 -2.8356e-05 ± 2.4612e-05
p2 9.9091e-05 ± 5.1234e-05
×10⁻³
Δ cotθ
cotθ

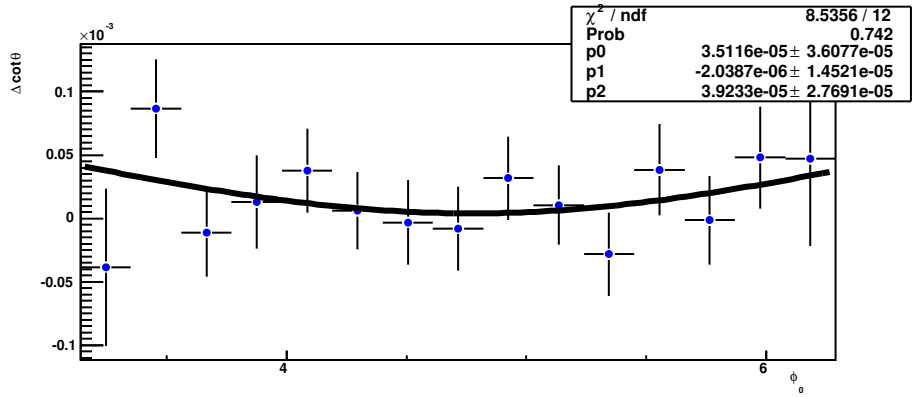

Δ z0 (cm)
cotθ

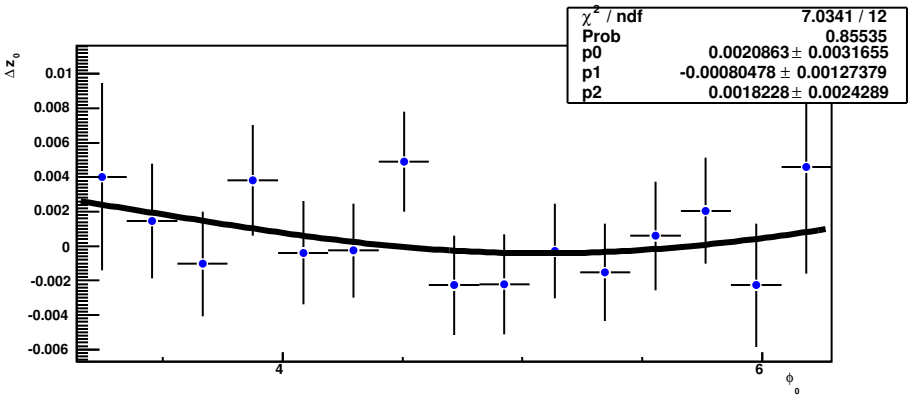

Δ t0 (ns)
cotθ

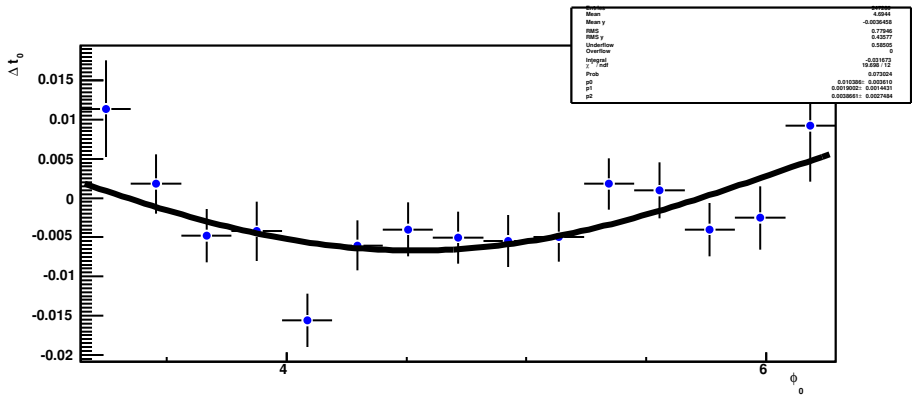

χ^2 / ndf 9.7961 / 12
Prob 0.63384
p0 -0.017547 ± 0.015385
p1 -0.0017051 ± 0.0062112
p2 -0.015441 ± 0.011798
Δ curv
ϕ_0

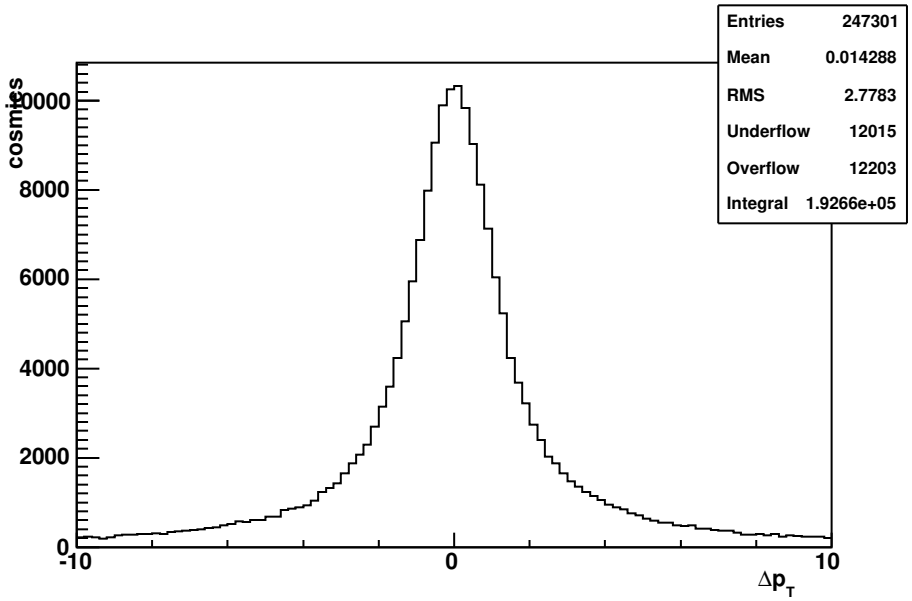

χ^2 / ndf 10.084 / 12
Prob 0.60857
p0 -0.002505 ± 0.006341
p1 0.0037643 ± 0.0025671
p2 -0.0013525 ± 0.0048449
$\Delta\phi_0$
ϕ_0

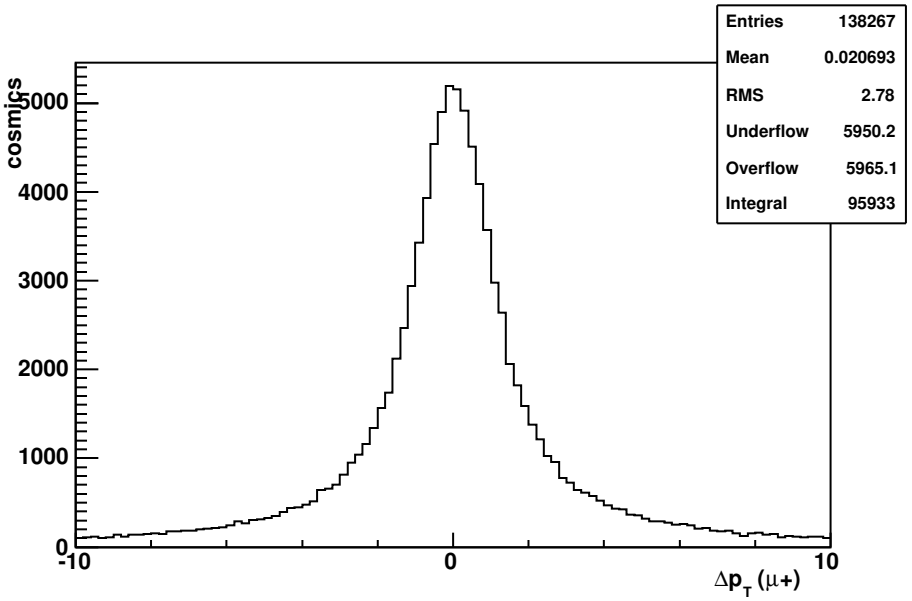

χ^2 / ndf 9.438 / 12
Prob 0.66513
p0 -2.068 ± 2.513
p1 -0.27431 ± 1.01115
p2 -2.0526 ± 1.9166
Δd_0
ϕ_0

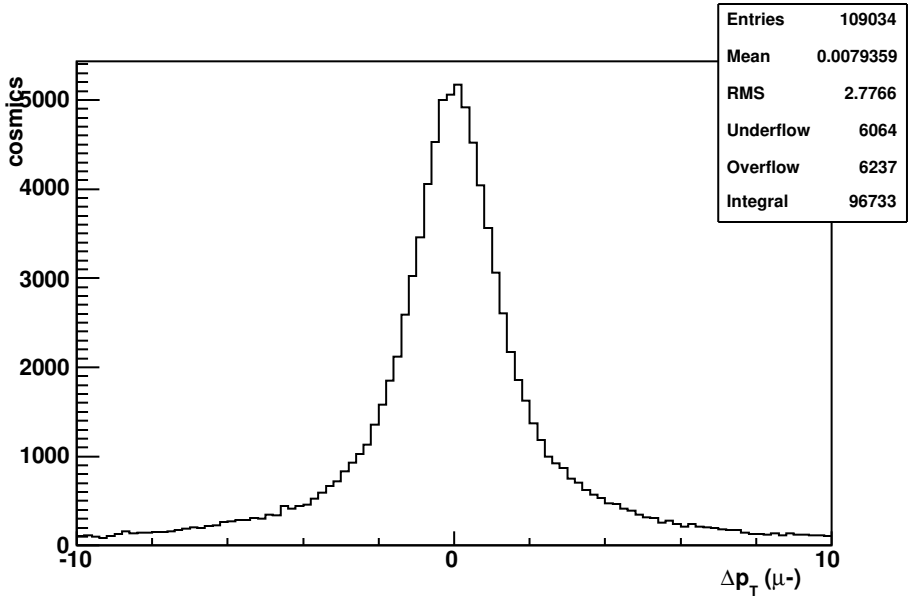

χ^2 / ndf 8.5356 / 12
Prob 0.742
p0 3.5116e-05 ± 3.6077e-05
p1 -2.0387e-06 ± 1.4521e-05
p2 3.9233e-05 ± 2.7691e-05
$\times 10^{-3}$
$\Delta\cot\theta$
ϕ_0

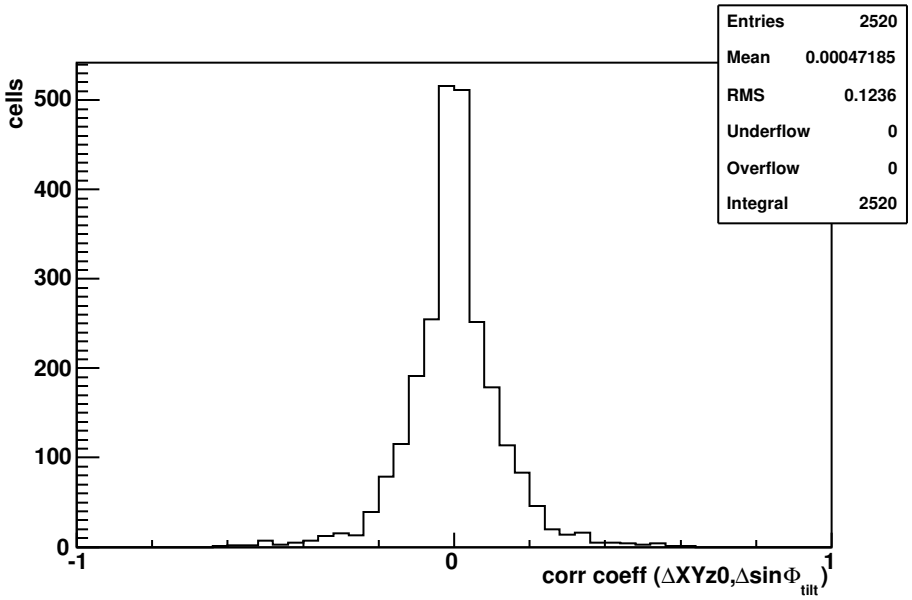

χ^2 / ndf 7.0341 / 12
Prob 0.85535
p0 0.0020863 ± 0.0031655
p1 -0.00080478 ± 0.00127379
p2 0.0018228 ± 0.0024289
Δz_0
ϕ_0

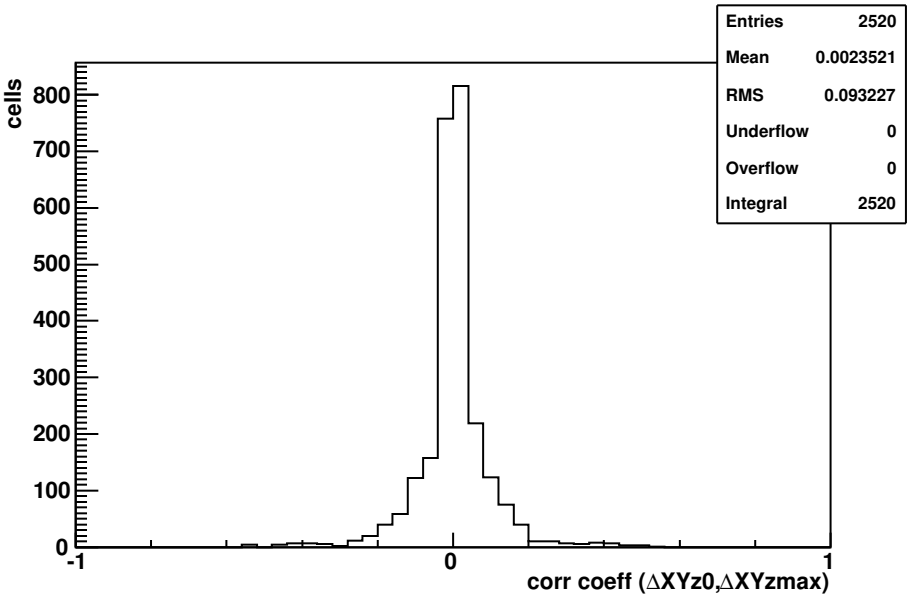

Δt_0
ϕ_0

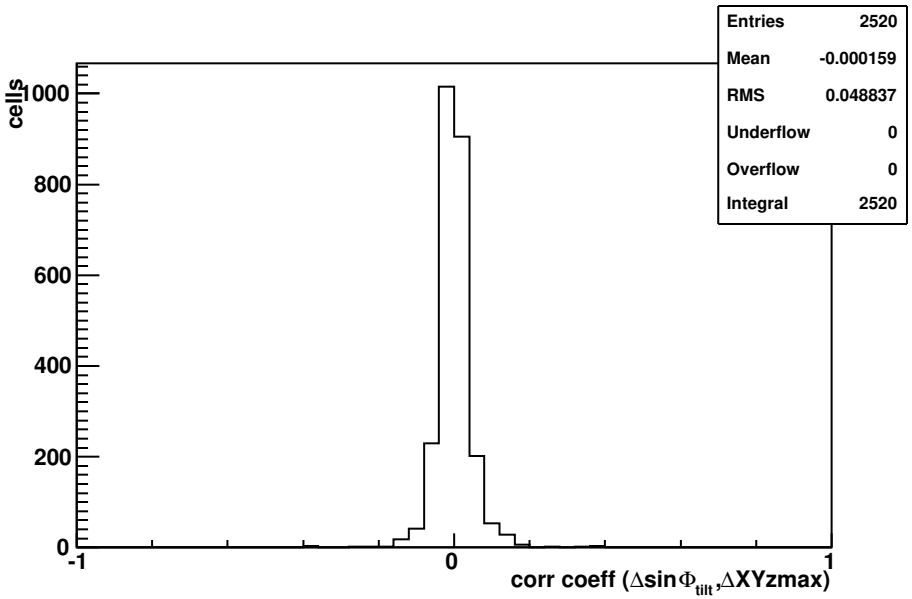

Entries 247301
Mean 0.014288
RMS 2.7783
Underflow 12015
Overflow 12203
Integral 1.9266e+05
cosmics
10000
8000
6000
4000
2000
0
-10
0
10
Δp_T

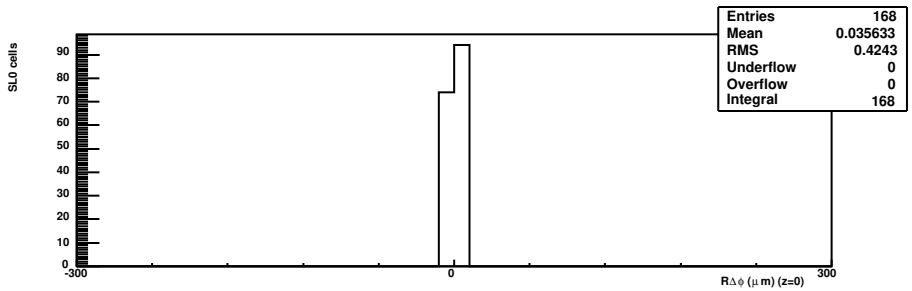

Entries 138267
Mean 0.020693
RMS 2.78
Underflow 5950.2
Overflow 5965.1
Integral 95933
cosmics
5000
4000
3000
2000
1000
0
-10
0
10
Δp_T (μ+)

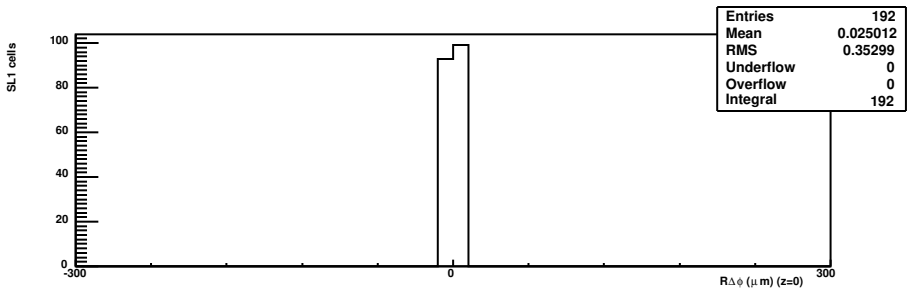

Entries 109034
Mean 0.0079359
RMS 2.7766
Underflow 6064
Overflow 6237
Integral 96733
cosmics
5000
4000
3000
2000
1000
0
-10
0
10
Δp_T (μ-)

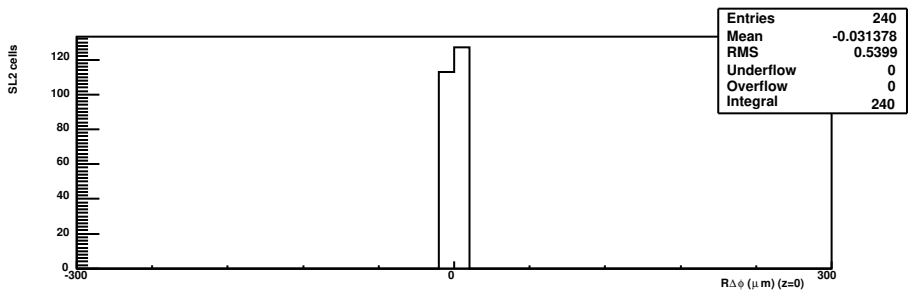

Entries 2520
Mean 0.00047185
RMS 0.1236
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔsinΦ_{tilt})

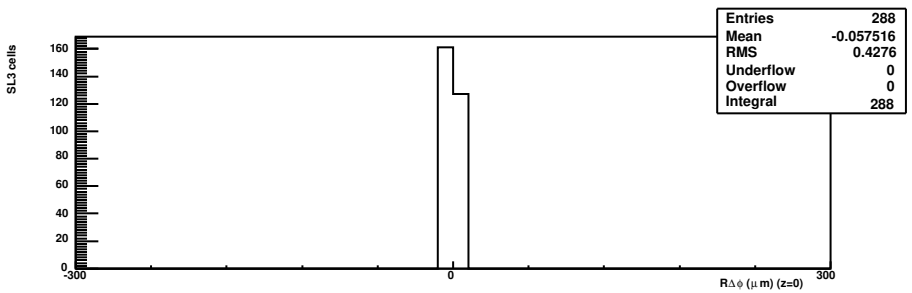

Entries 2520
Mean 0.0023521
RMS 0.093227
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔXYzmax)

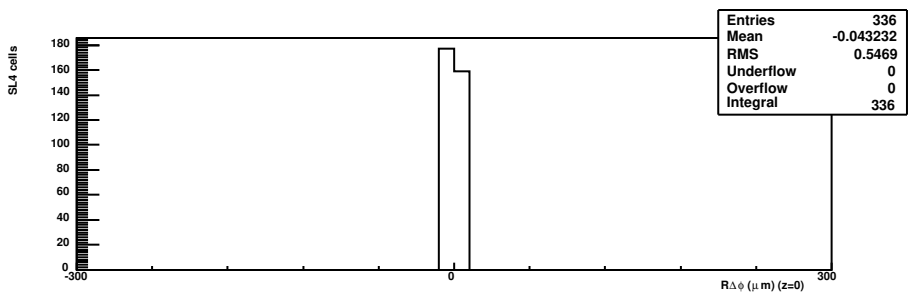

Entries 2520
Mean -0.000159
RMS 0.048837
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔsinΦ_{tilt},ΔXYzmax)

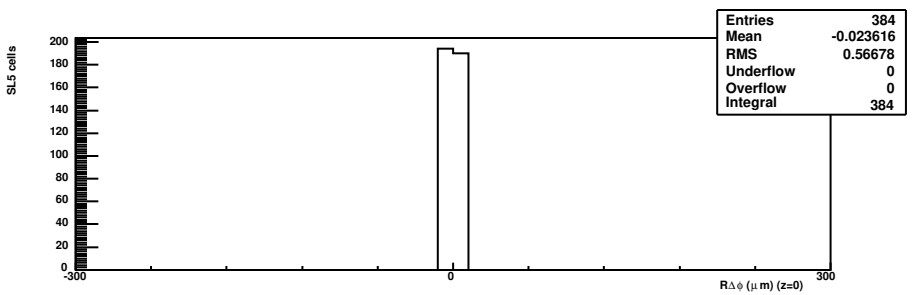

Entries 168
Mean 0.035633
RMS 0.4243
Underflow 0
Overflow 0
Integral 168
SL0 cells
RΔφ (μm) (z=0)

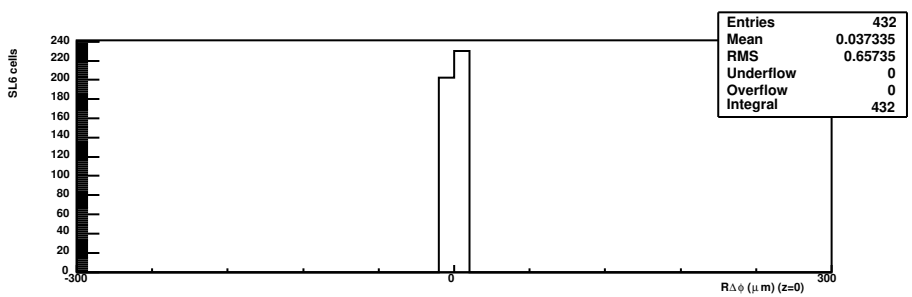

Entries 192
Mean 0.025012
RMS 0.35299
Underflow 0
Overflow 0
Integral 192
SL1 cells
RΔφ (μm) (z=0)

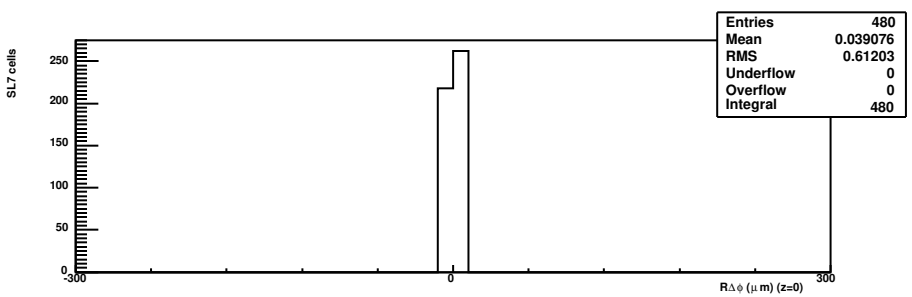

Entries 240
Mean -0.031378
RMS 0.5399
Underflow 0
Overflow 0
Integral 240
SL2 cells
RΔφ (μm) (z=0)

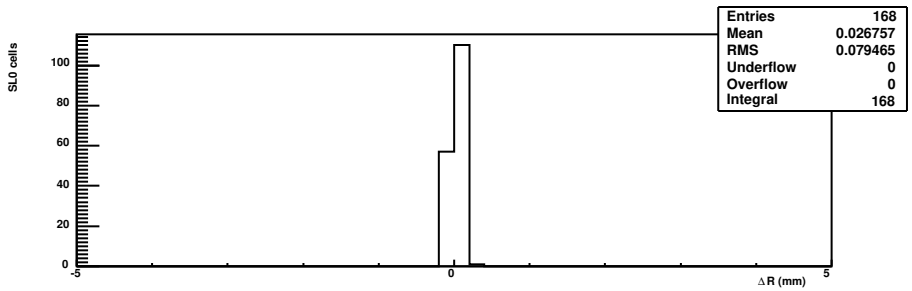

Entries 288
Mean -0.057516
RMS 0.4276
Underflow 0
Overflow 0
Integral 288
SL3 cells
RΔφ (μm) (z=0)

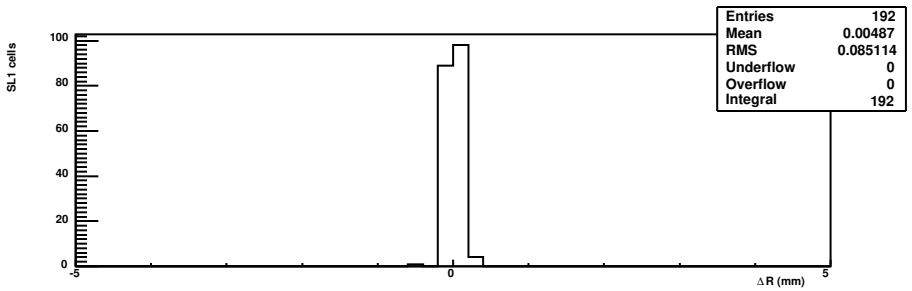

Entries 336
Mean -0.043232
RMS 0.5469
Underflow 0
Overflow 0
Integral 336
SL4 cells
RΔφ (μm) (z=0)

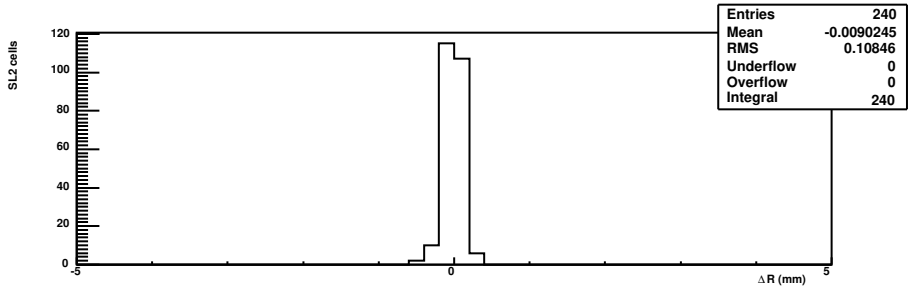

Entries 384
Mean -0.023616
RMS 0.56678
Underflow 0
Overflow 0
Integral 384
SL5 cells
RΔφ (μm) (z=0)

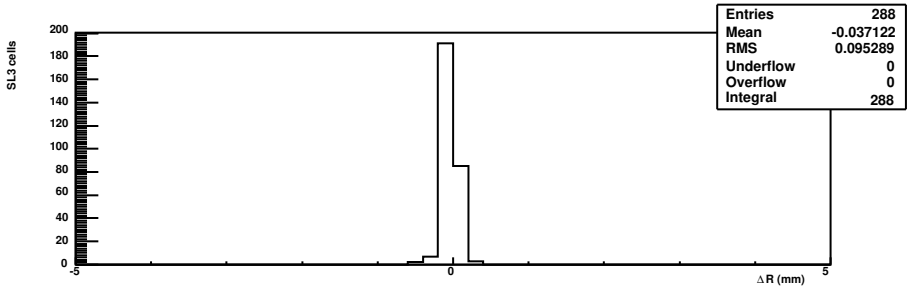

Entries 432
Mean 0.037335
RMS 0.65735
Underflow 0
Overflow 0
Integral 432
SL6 cells
RΔφ (μm) (z=0)

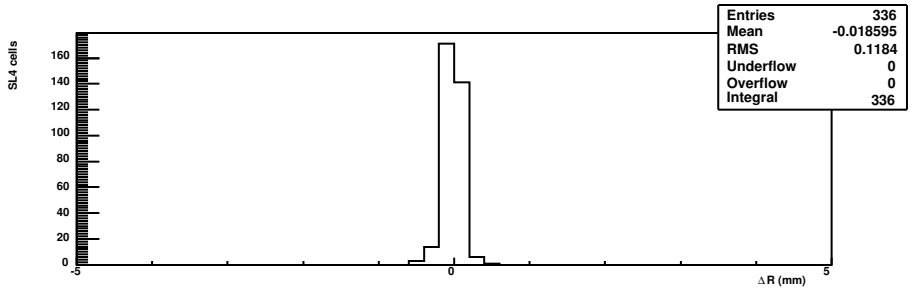

Entries 480
Mean 0.039076
RMS 0.61203
Underflow 0
Overflow 0
Integral 480
SL7 cells
RΔφ (μm) (z=0)

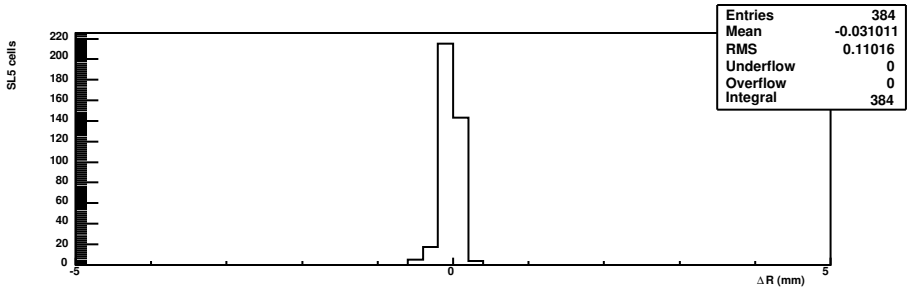

Entries 168
Mean 0.026757
RMS 0.079465
Underflow 0
Overflow 0
Integral 168
SL0 cells
ΔR (mm)

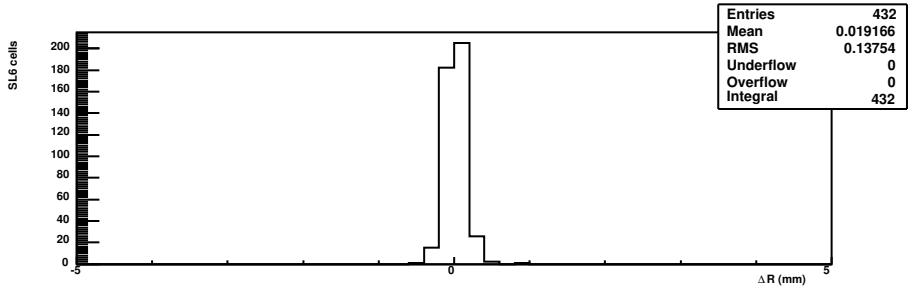

Entries 192
Mean 0.00487
RMS 0.085114
Underflow 0
Overflow 0
Integral 192
SL1 cells
ΔR (mm)

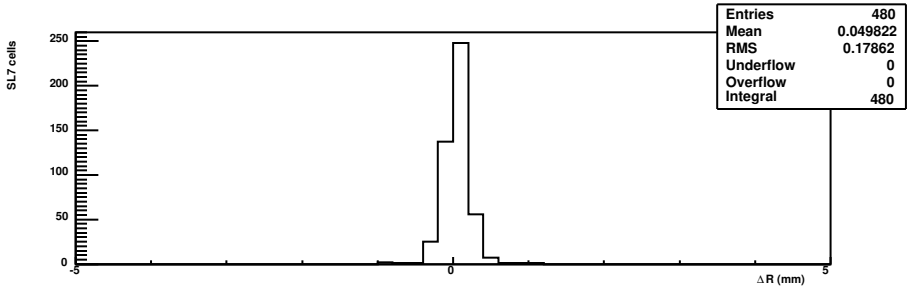

Entries 240
Mean -0.0090245
RMS 0.10846
Underflow 0
Overflow 0
Integral 240
SL2 cells
ΔR (mm)

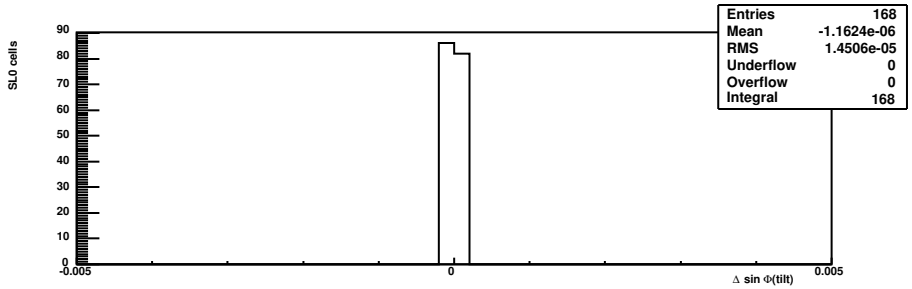

Entries 288
Mean -0.037122
RMS 0.095289
Underflow 0
Overflow 0
Integral 288
SL3 cells
ΔR (mm)

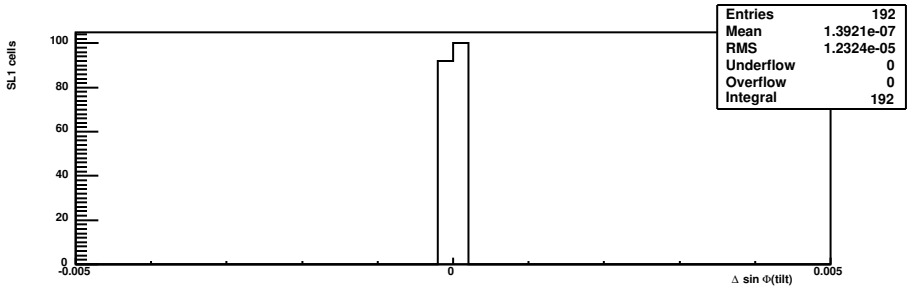

Entries 336
Mean -0.018595
RMS 0.1184
Underflow 0
Overflow 0
Integral 336
SL4 cells
ΔR (mm)

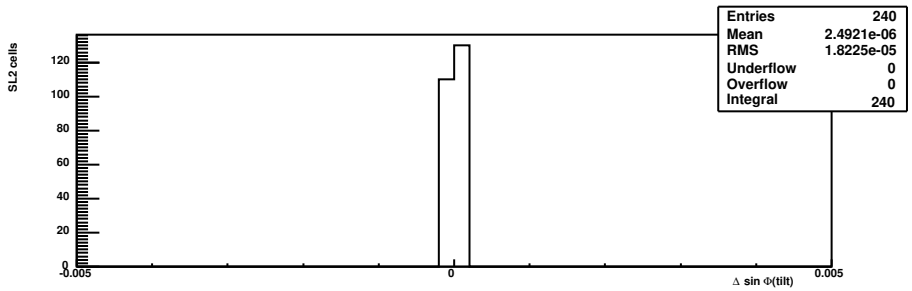

Entries 384
Mean -0.031011
RMS 0.11016
Underflow 0
Overflow 0
Integral 384
SL5 cells
ΔR (mm)

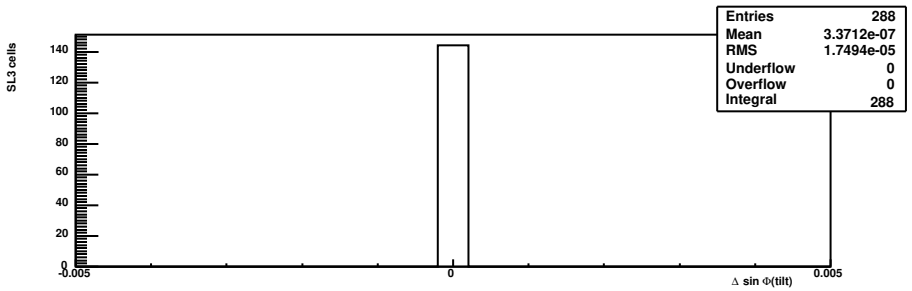

Entries 432
Mean 0.019166
RMS 0.13754
Underflow 0
Overflow 0
Integral 432
SL6 cells
ΔR (mm)

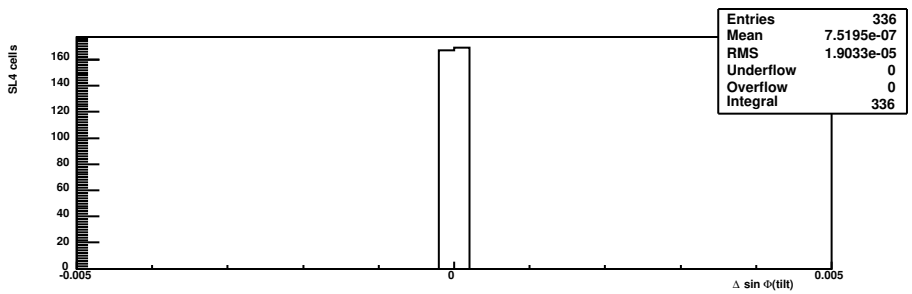

Entries 480
Mean 0.049822
RMS 0.17862
Underflow 0
Overflow 0
Integral 480
SL7 cells
ΔR (mm)

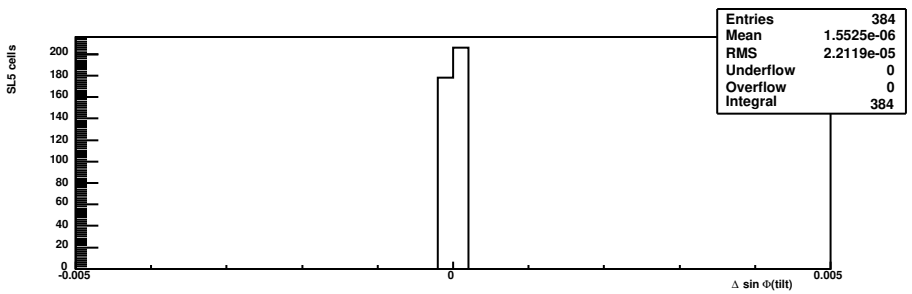

Entries 168
Mean -1.1624e-06
RMS 1.4506e-05
Underflow 0
Overflow 0
Integral 168
SL0 cells
Δ sin Φ(tilt)

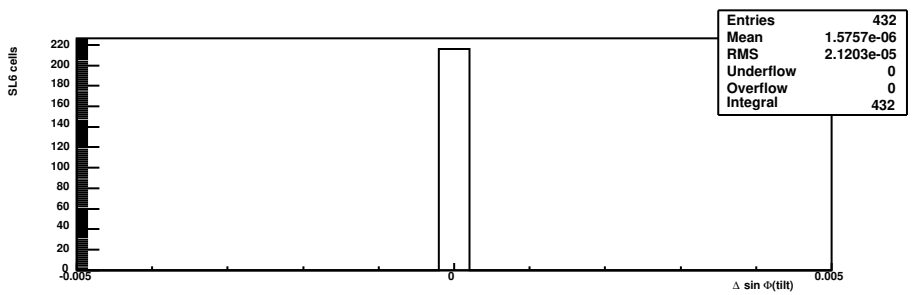

Entries 192
Mean 1.3921e-07
RMS 1.2324e-05
Underflow 0
Overflow 0
Integral 192
SL1 cells
Δ sin Φ(tilt)

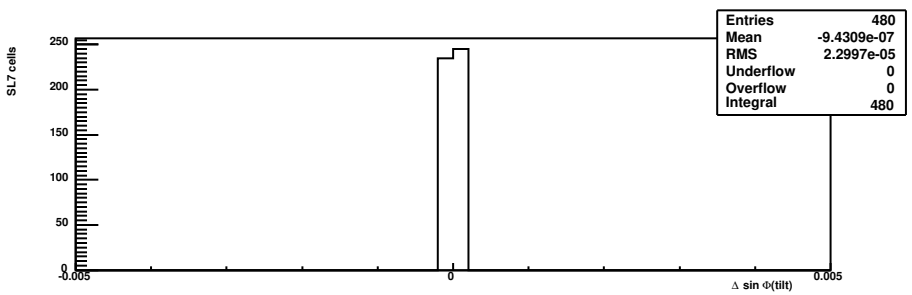

Entries 240
Mean 2.4921e-06
RMS 1.8225e-05
Underflow 0
Overflow 0
Integral 240
SL2 cells
Δ sin Φ(tilt)

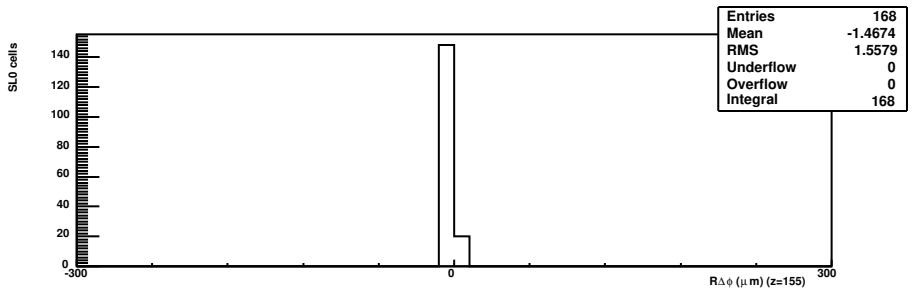

Entries 288
Mean 3.3712e-07
RMS 1.7494e-05
Underflow 0
Overflow 0
Integral 288
SL3 cells
Δ sin Φ(tilt)

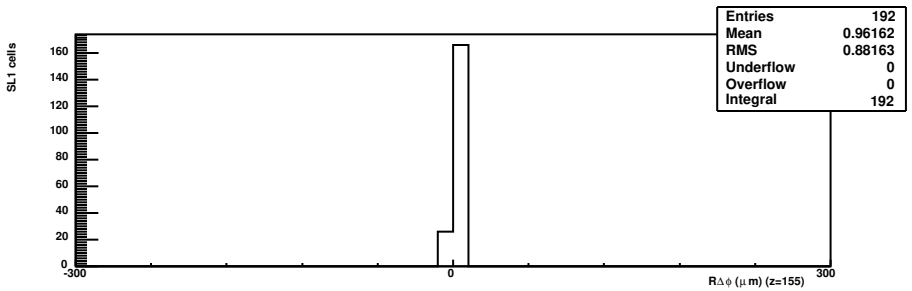

Entries 336
Mean 7.5195e-07
RMS 1.9033e-05
Underflow 0
Overflow 0
Integral 336
SL4 cells
Δ sin Φ(tilt)

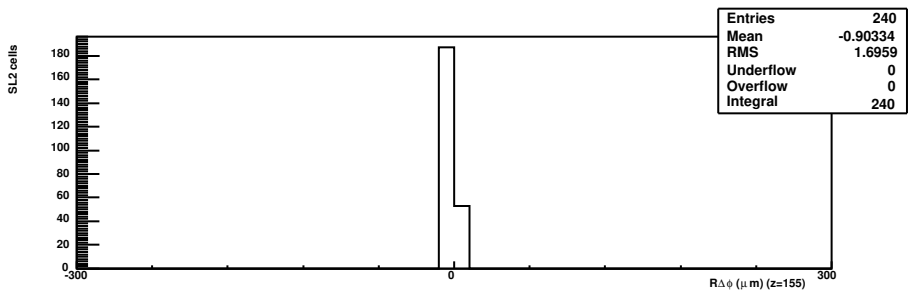

Entries 384
Mean 1.5525e-06
RMS 2.2119e-05
Underflow 0
Overflow 0
Integral 384
SL5 cells
Δ sin Φ(tilt)

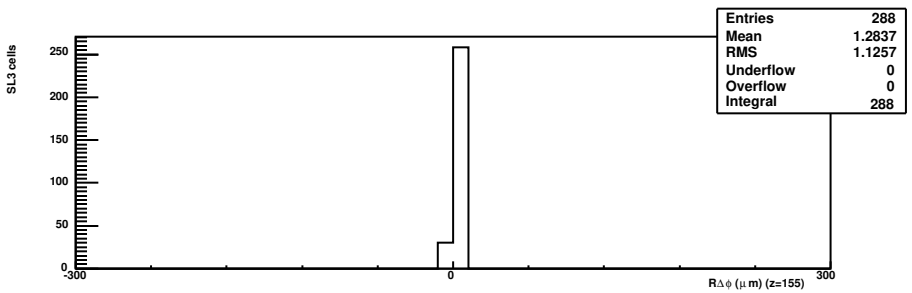

Entries 432
Mean 1.5757e-06
RMS 2.1203e-05
Underflow 0
Overflow 0
Integral 432
SL6 cells
Δ sin Φ(tilt)

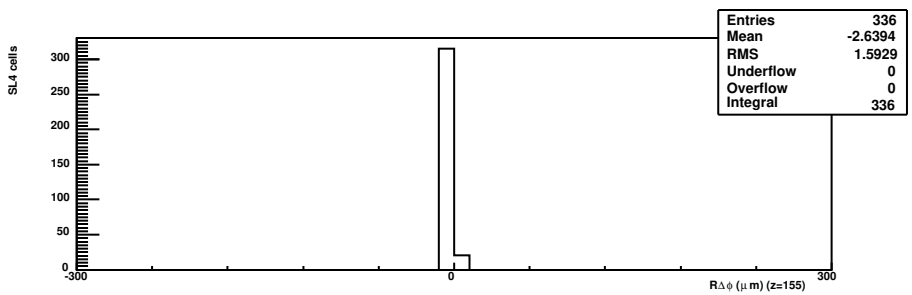

Entries 480
Mean -9.4309e-07
RMS 2.2997e-05
Underflow 0
Overflow 0
Integral 480
SL7 cells
Δ sin Φ(tilt)

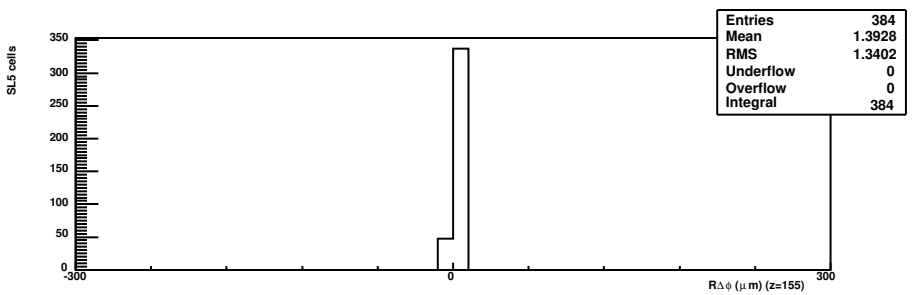

Entries 168
Mean -1.4674
RMS 1.5579
Underflow 0
Overflow 0
Integral 168
SL0 cells
RΔφ (μm) (z=155)

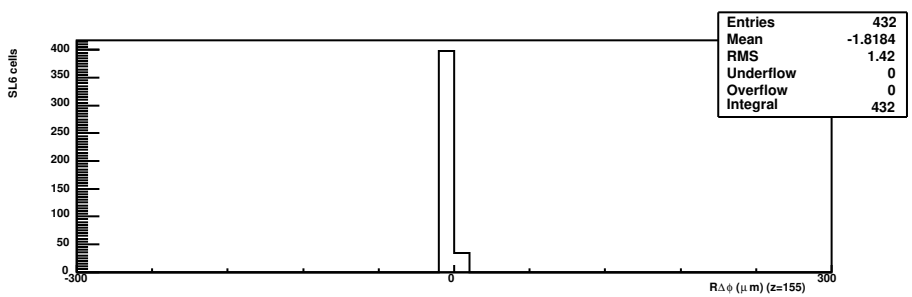

Entries 192
Mean 0.96162
RMS 0.88163
Underflow 0
Overflow 0
Integral 192
SL1 cells
RΔφ (μm) (z=155)

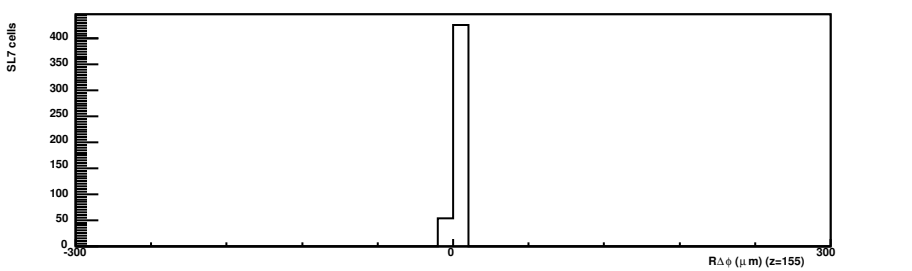

Entries 240
Mean -0.90334
RMS 1.6959
Underflow 0
Overflow 0
Integral 240
SL2 cells
RΔφ (μm) (z=155)

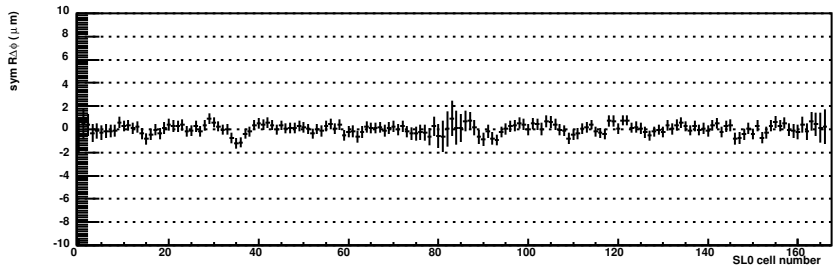

Entries 288
Mean 1.2837
RMS 1.1257
Underflow 0
Overflow 0
Integral 288
SL3 cells
RΔφ (μm) (z=155)

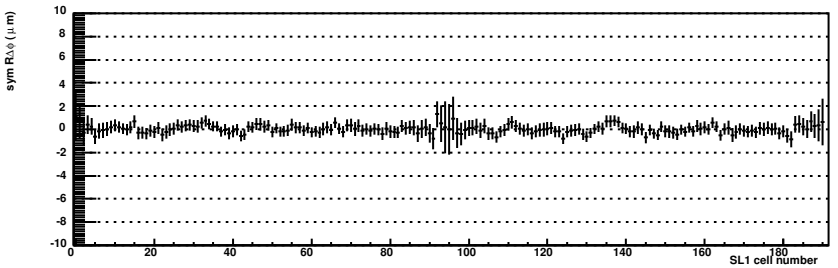

Entries 336
Mean -2.6394
RMS 1.5929
Underflow 0
Overflow 0
Integral 336
SL4 cells
RΔφ (μm) (z=155)

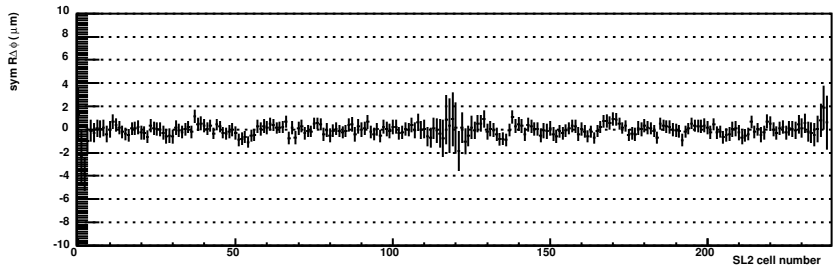

Entries 384
Mean 1.3928
RMS 1.3402
Underflow 0
Overflow 0
Integral 384
SL5 cells
RΔφ (μm) (z=155)

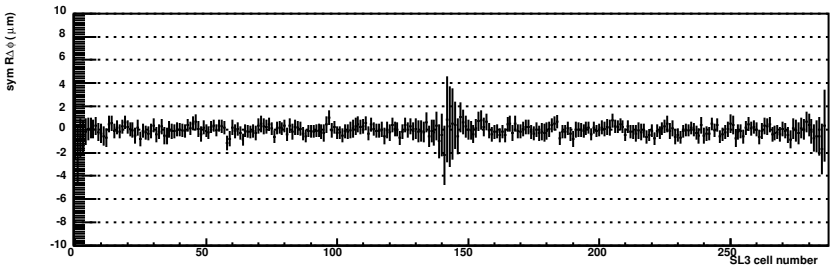

Entries 432
Mean -1.8184
RMS 1.42
Underflow 0
Overflow 0
Integral 432
SL6 cells
RΔφ (μm) (z=155)

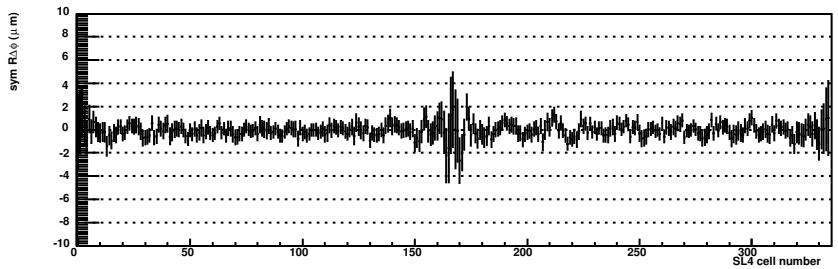

SL7 cells
RΔφ (μm) (z=155)

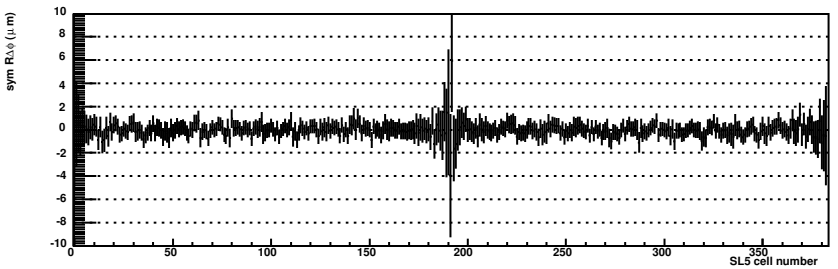

sym R$\Delta\phi$ (μm)
SL0 cell number

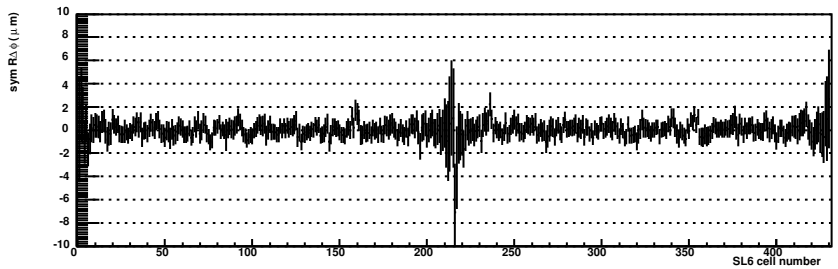

sym R$\Delta\phi$ (μm)
SL1 cell number

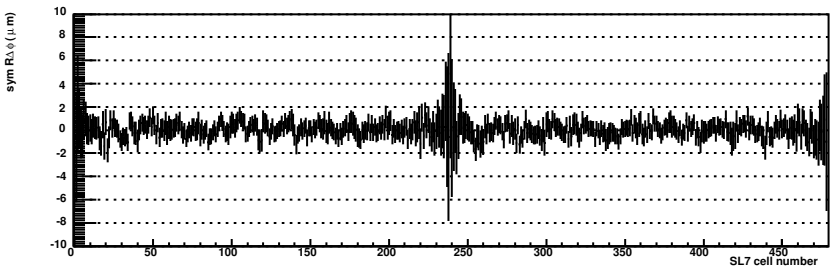

sym R$\Delta\phi$ (μm)
SL2 cell number

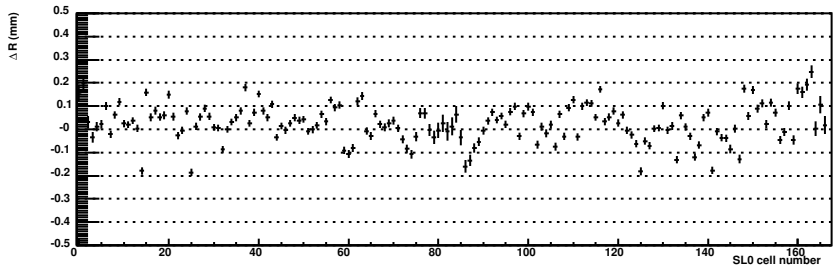

sym R$\Delta\phi$ (μm)
SL3 cell number

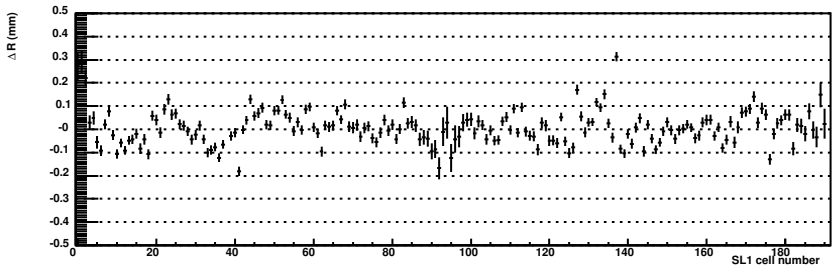

sym R$\Delta\phi$ (μm)
SL4 cell number

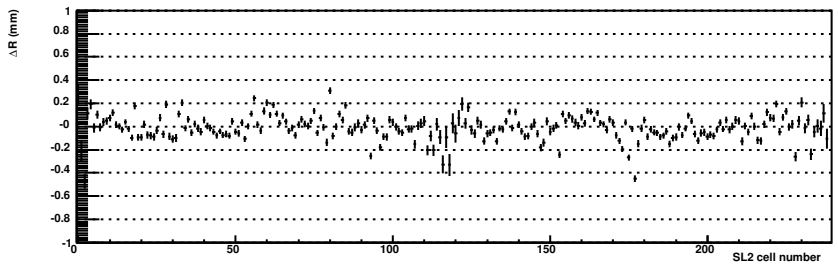

sym R$\Delta\phi$ (μm)
SL5 cell number

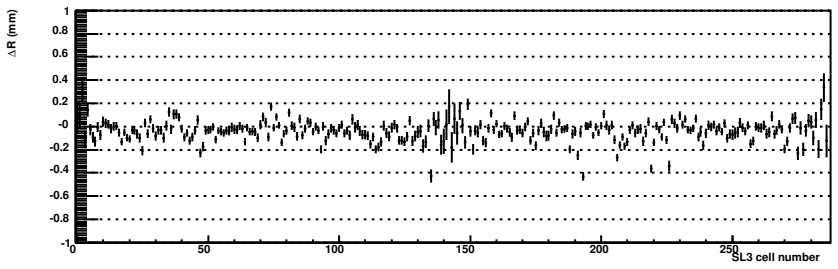

sym R$\Delta\phi$ (μm)
SL6 cell number

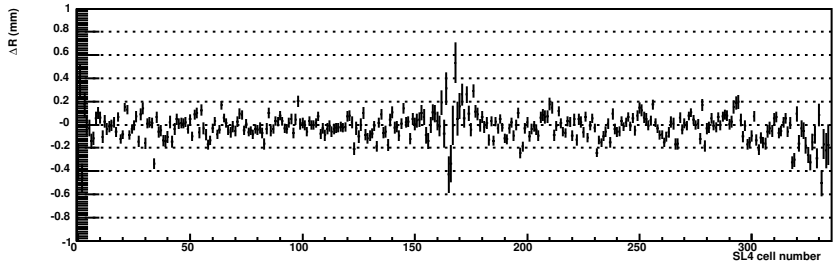

sym R$\Delta\phi$ (μm)
SL7 cell number

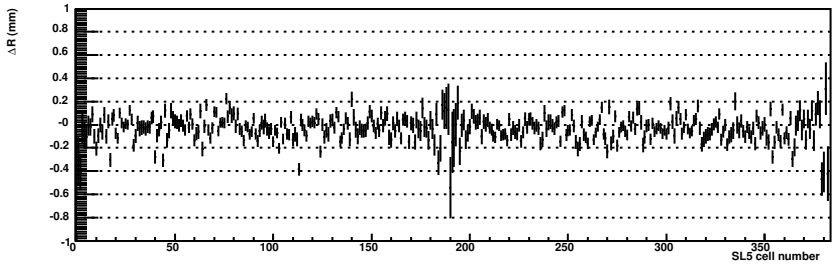

ΔR (mm)
SL0 cell number

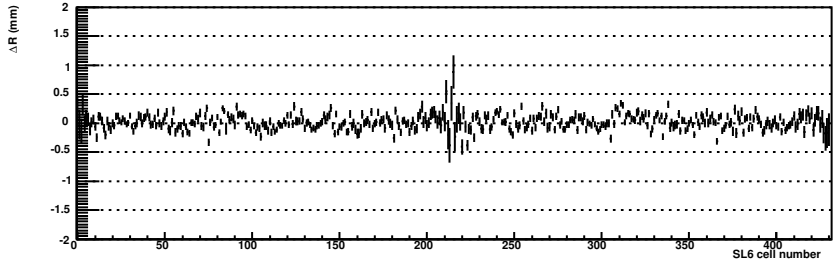

ΔR (mm)
SL1 cell number

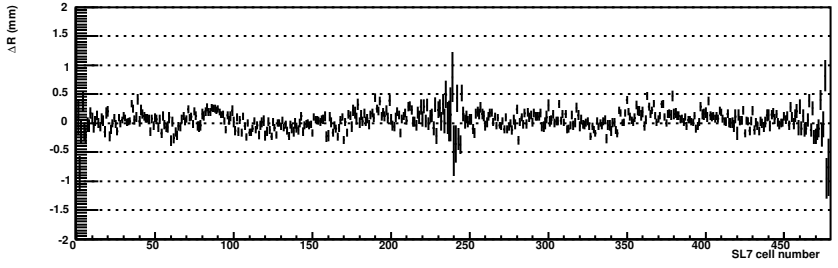

ΔR (mm)
SL2 cell number

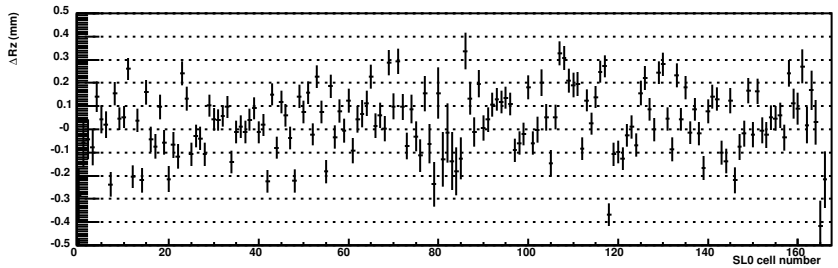

ΔR (mm)
SL3 cell number

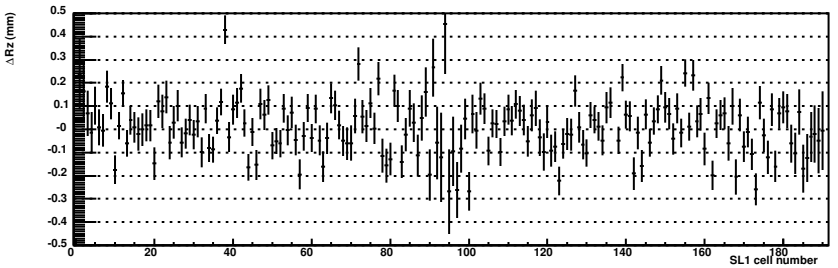

ΔR (mm)
SL4 cell number

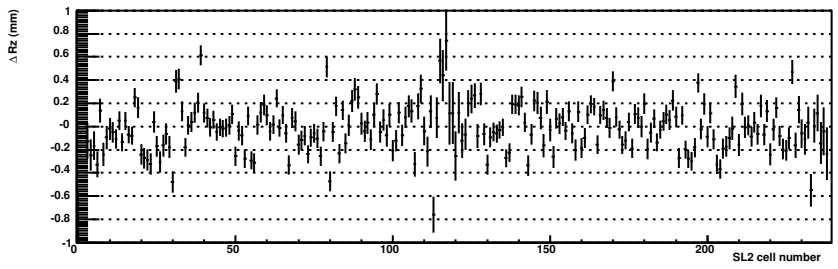

ΔR (mm)
SL5 cell number

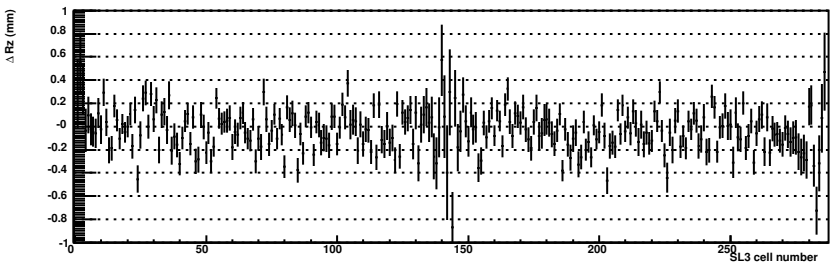

ΔR (mm)
SL6 cell number

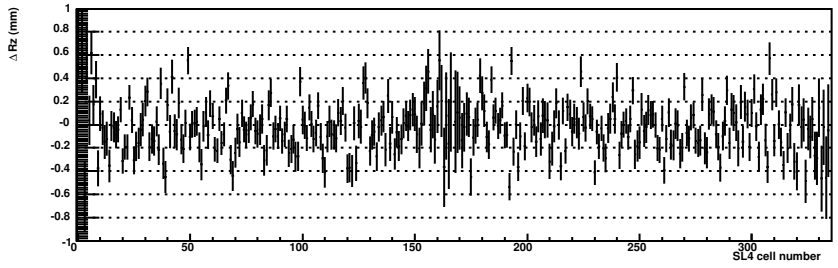

ΔR (mm)
SL7 cell number

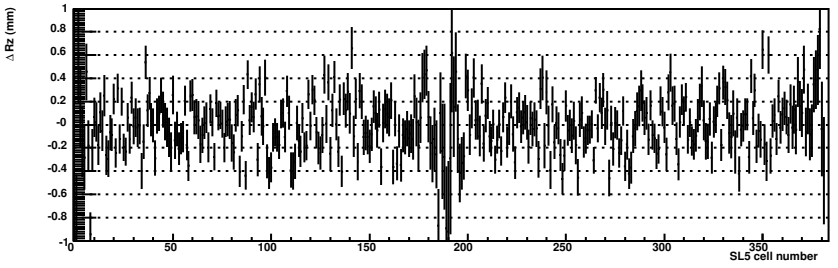

ΔRz (mm)
SL0 cell number

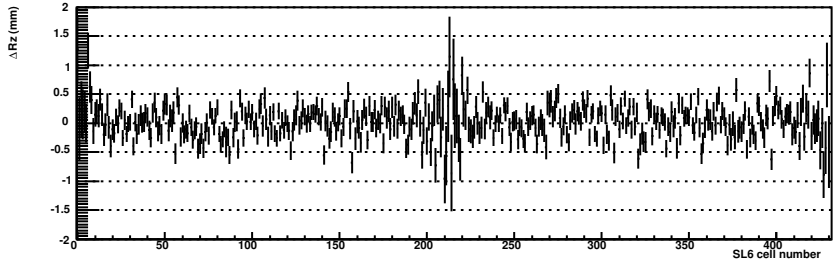

ΔRz (mm)
SL1 cell number

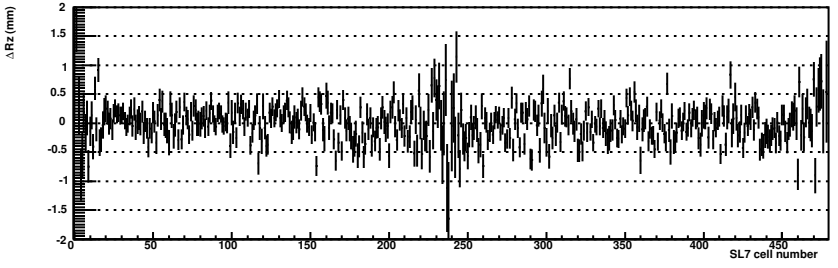

ΔRz (mm)
SL2 cell number

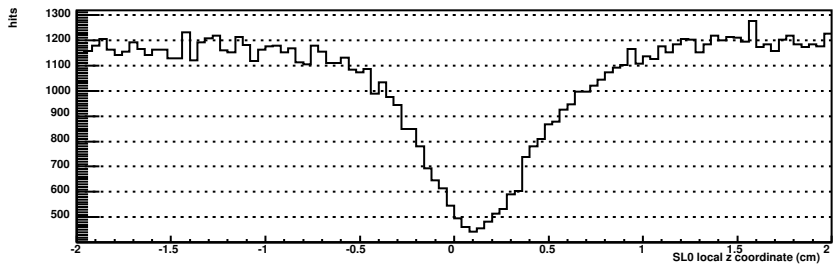

ΔRz (mm)
SL3 cell number

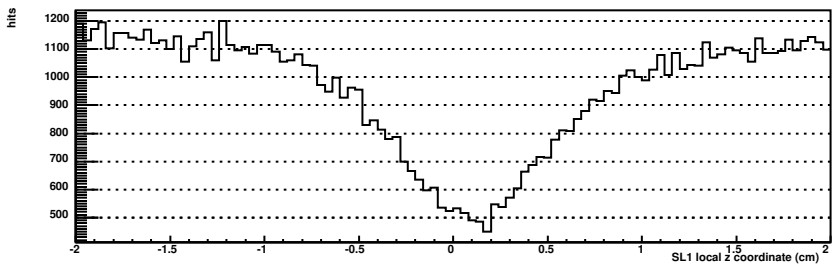

ΔRz (mm)
SL4 cell number

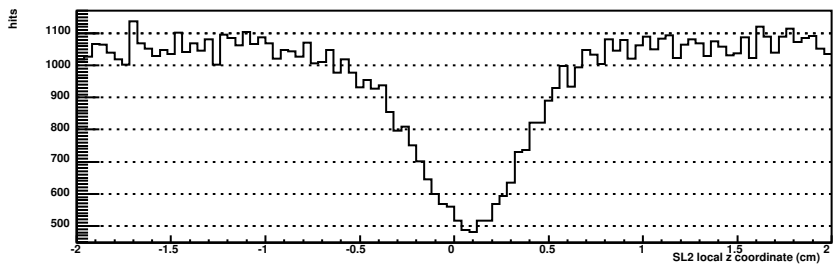

ΔRz (mm)
SL5 cell number

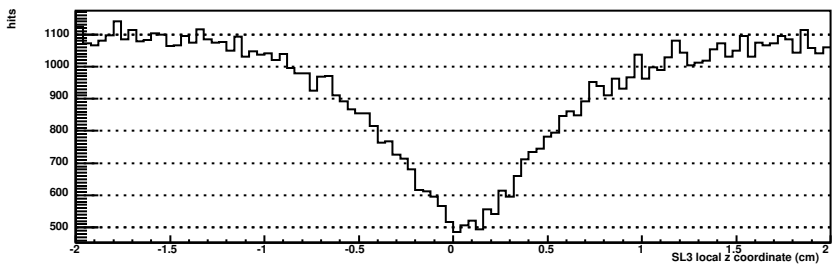

ΔRz (mm)
SL6 cell number

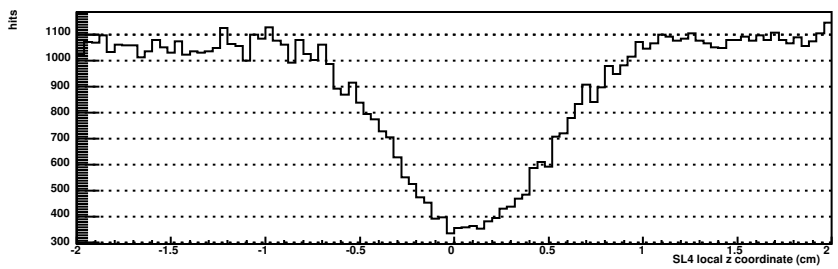

ΔRz (mm)
SL7 cell number

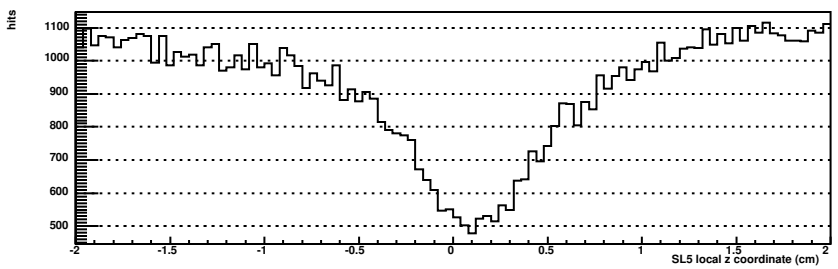

hits
SL0 local z coordinate (cm)

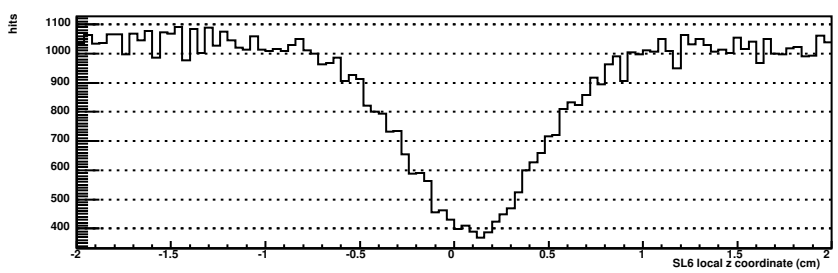

hits
SL1 local z coordinate (cm)

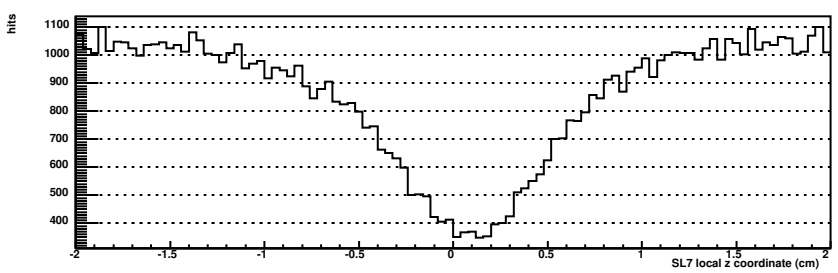

hits
SL2 local z coordinate (cm)

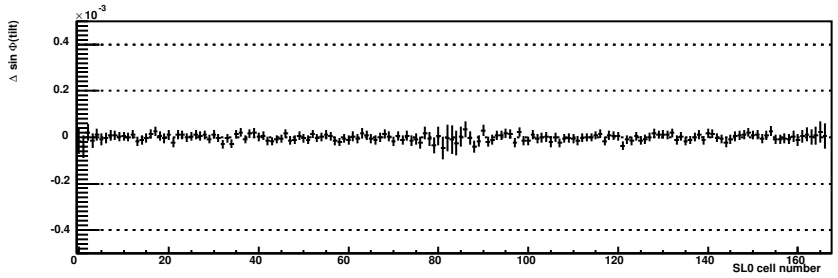

hits
SL3 local z coordinate (cm)

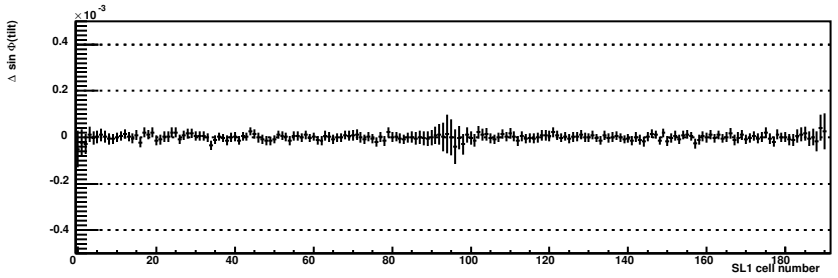

hits
SL4 local z coordinate (cm)

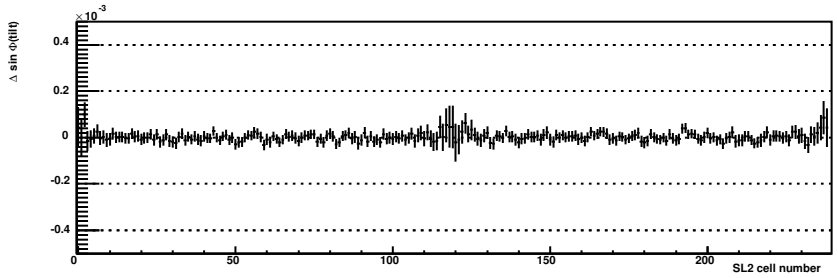

hits
SL5 local z coordinate (cm)

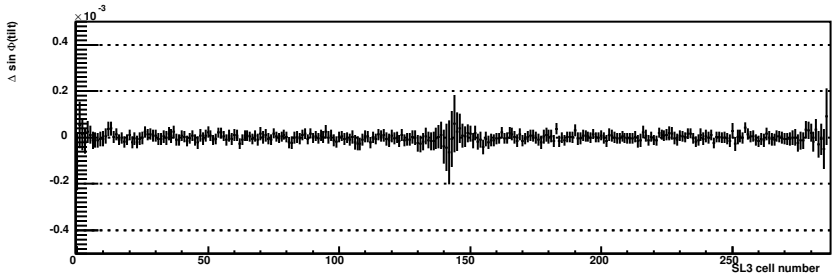

hits
SL6 local z coordinate (cm)

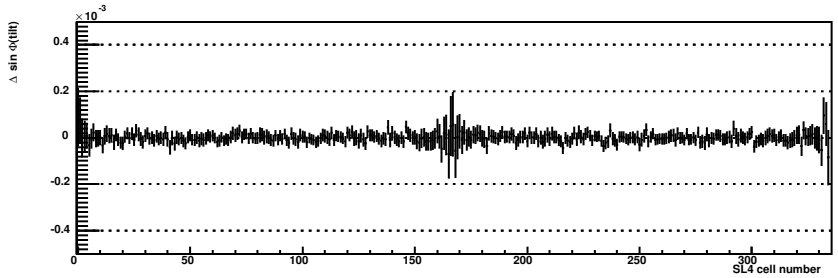

hits
SL7 local z coordinate (cm)

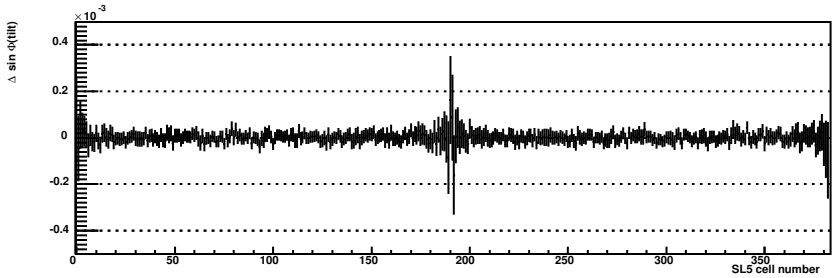

×10^-3
Δ sin Φ(tilt)
0.4
0.2
0
-0.2
-0.4
0
20
40
60
80
100
120
140
160
SL0 cell number

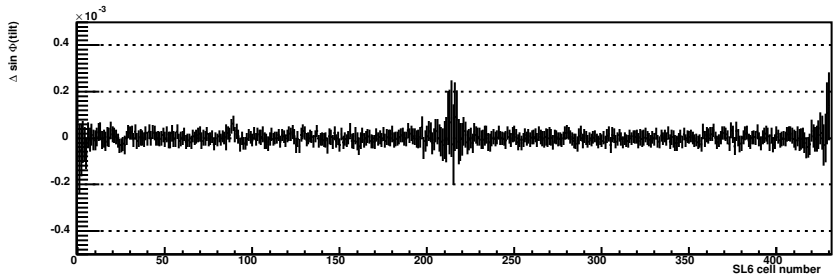

×10^-3
Δ sin Φ(tilt)
0.4
0.2
0
-0.2
-0.4
0
20
40
60
80
100
120
140
160
180
SL1 cell number

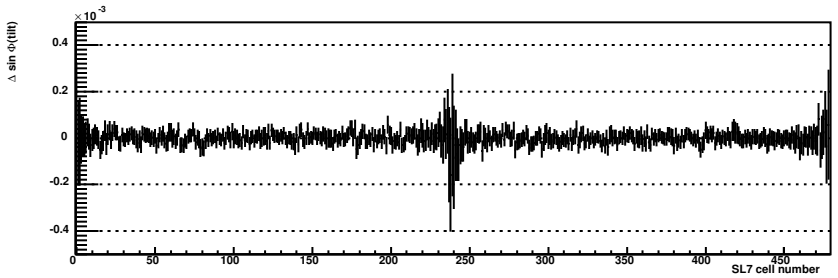

×10^-3
Δ sin Φ(tilt)
0.4
0.2
0
-0.2
-0.4
0
50
100
150
200
SL2 cell number


×10^-3
Δ sin Φ(tilt)
0.4
0.2
0
-0.2
-0.4
0
50
100
150
200
250
SL3 cell number


×10^-3
Δ sin Φ(tilt)
0.4
0.2
0
-0.2
-0.4
0
50
100
150
200
250
300
SL4 cell number


×10^-3
Δ sin Φ(tilt)
0.4
0.2
0
-0.2
-0.4
0
50
100
150
200
250
300
350
SL5 cell number


×10^-3
Δ sin Φ(tilt)
0.4
0.2
0
-0.2
-0.4
0
50
100
150
200
250
300
350
400
SL6 cell number


×10^-3
Δ sin Φ(tilt)
0.4
0.2
0
-0.2
-0.4
0
50
100
150
200
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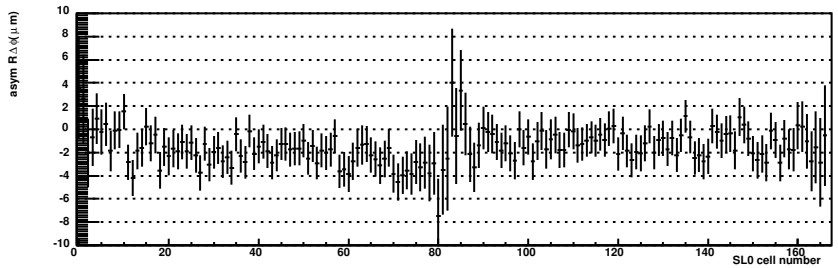
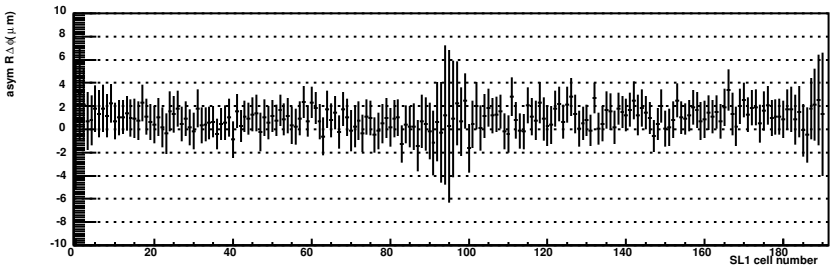
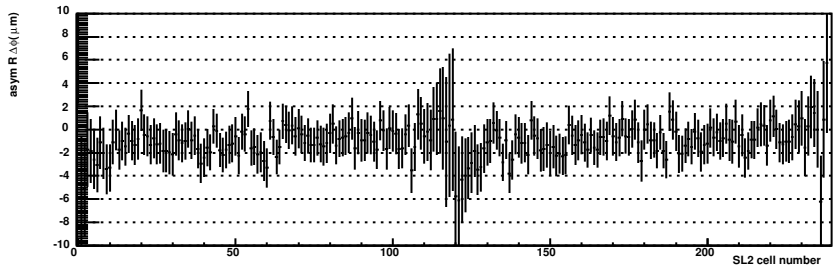
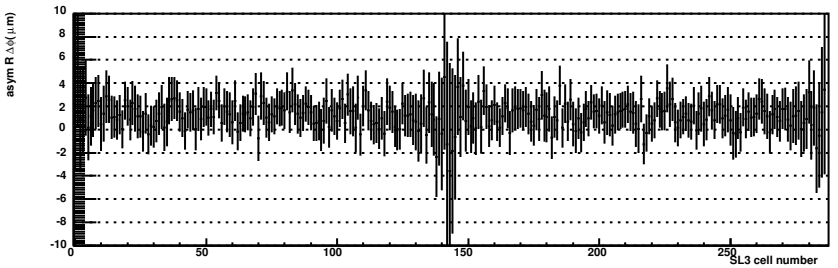
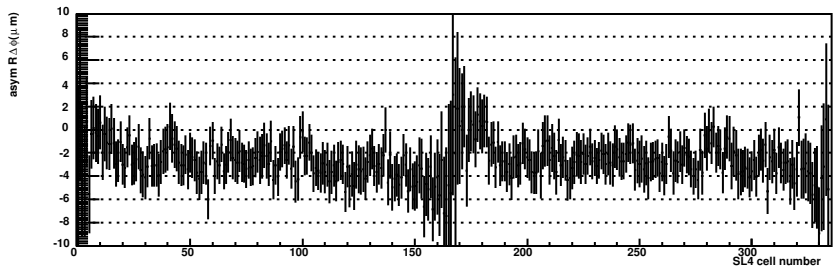
300
350
400
450
SL7 cell number

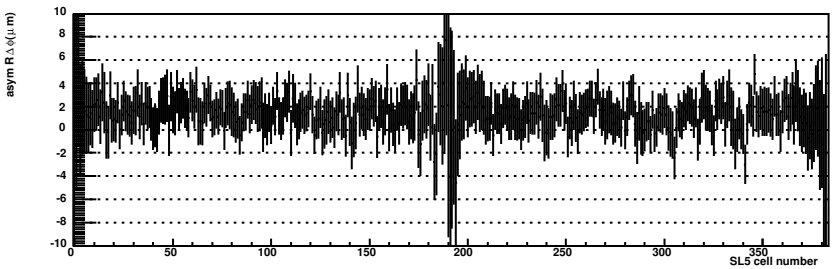

asym R Δφ(μm)
SL0 cell number

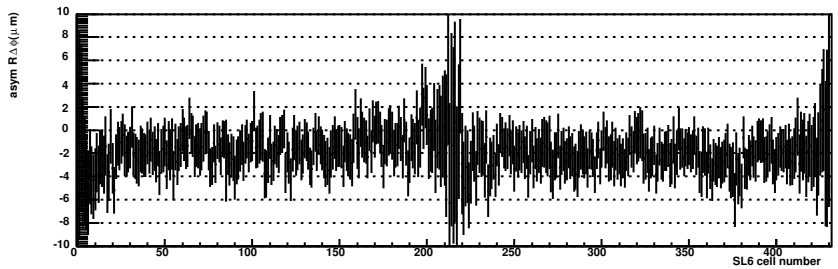

asym R Δφ(μm)
SL1 cell number

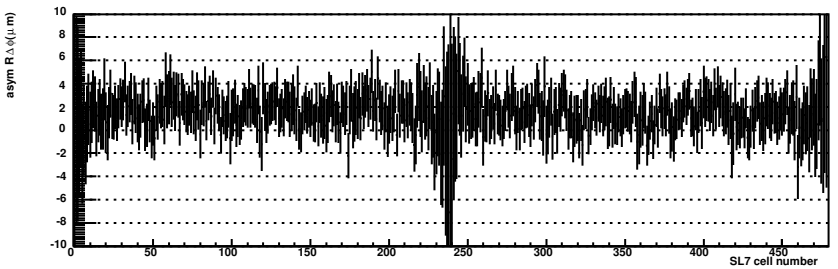

asym R Δφ(μm)
SL2 cell number

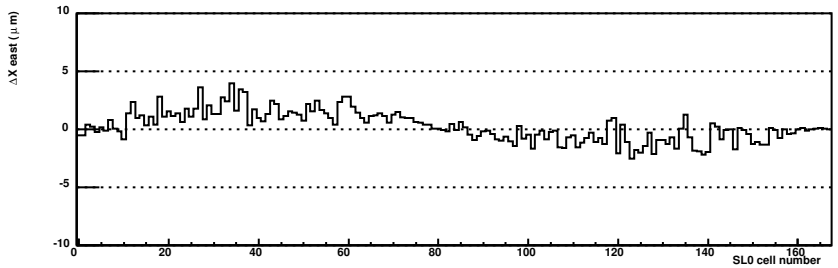

asym R Δφ(μm)
SL3 cell number

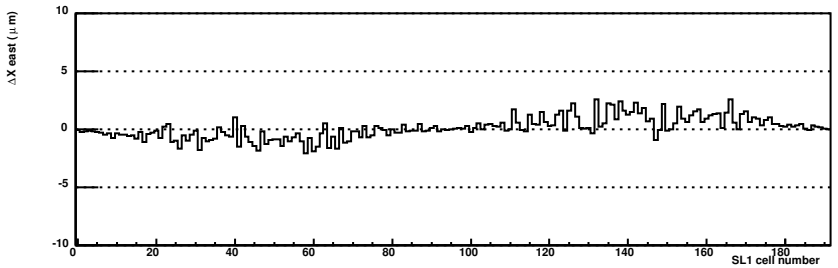

asym R Δφ(μm)
SL4 cell number

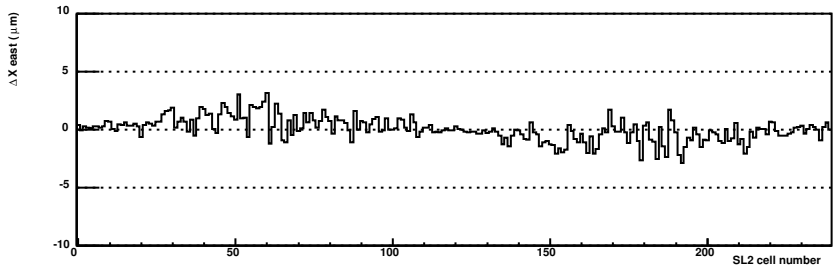

asym R Δφ(μm)
SL5 cell number

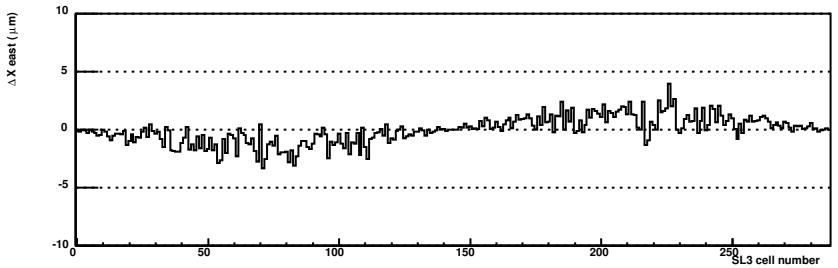

asym R Δφ(μm)
SL6 cell number

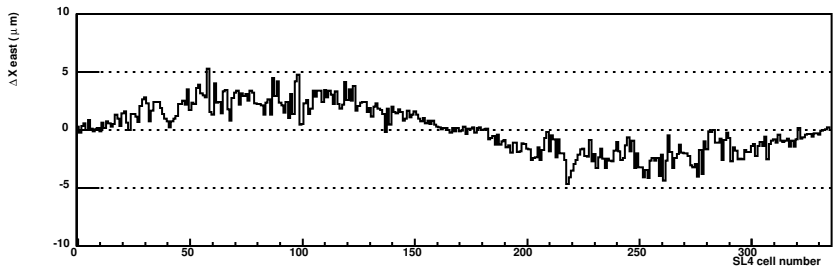

asym R Δφ(μm)
SL7 cell number

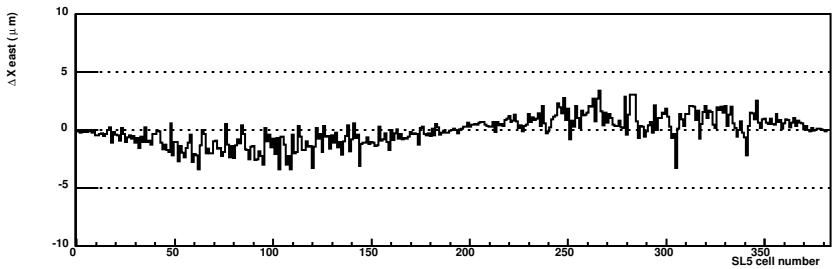

ΔX east (μm)
SL0 cell number

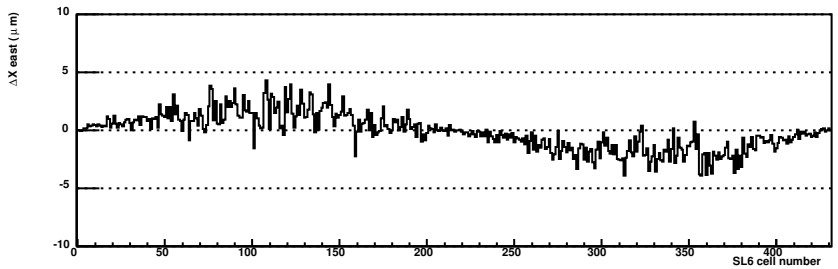

ΔX east (μm)
SL1 cell number

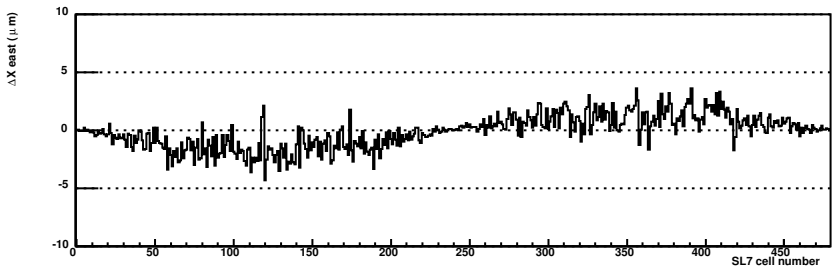

ΔX east (μm)
SL2 cell number

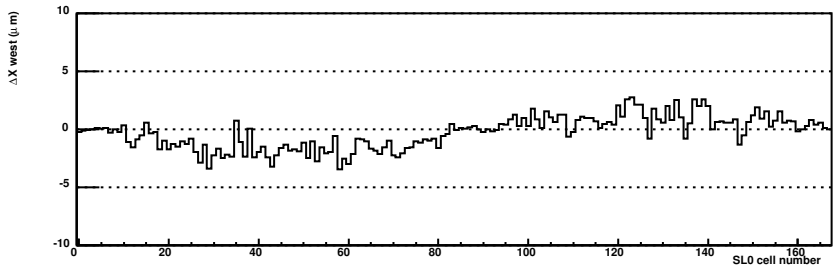

ΔX east (μm)
SL3 cell number

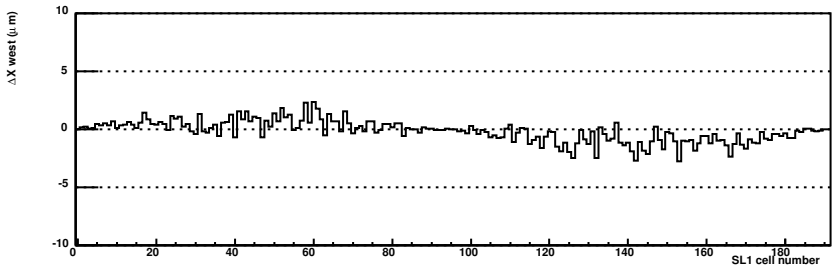

ΔX east (μm)
SL4 cell number

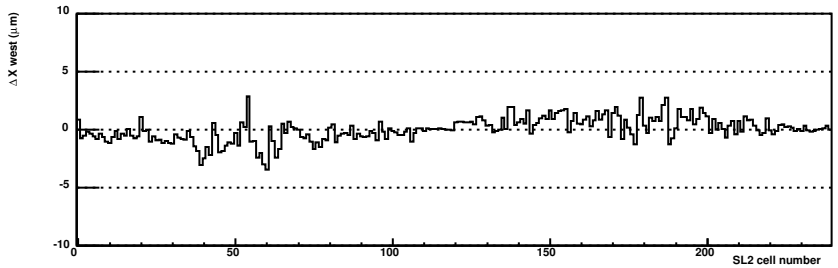

ΔX east (μm)
SL5 cell number

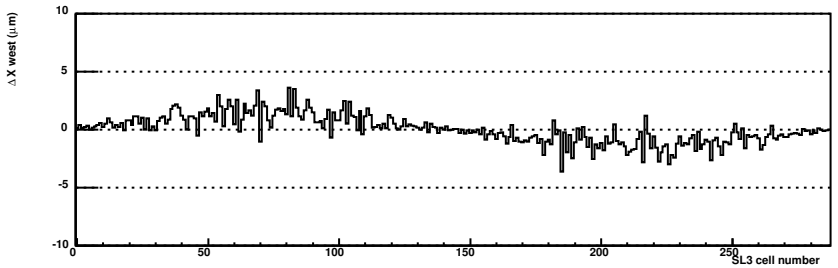

ΔX east (μm)
SL6 cell number

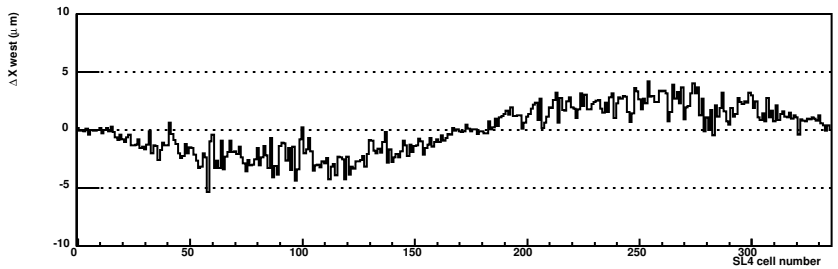

ΔX east (μm)
SL7 cell number

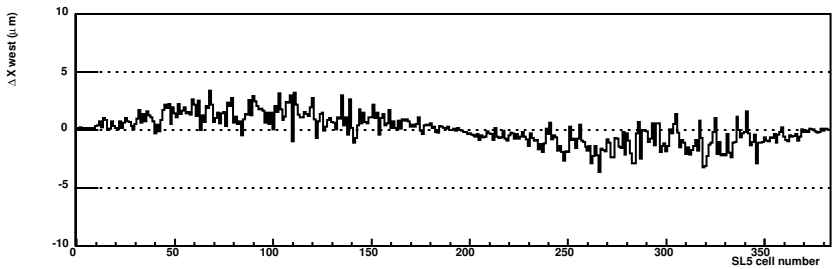

ΔX west (μm)
SL0 cell number

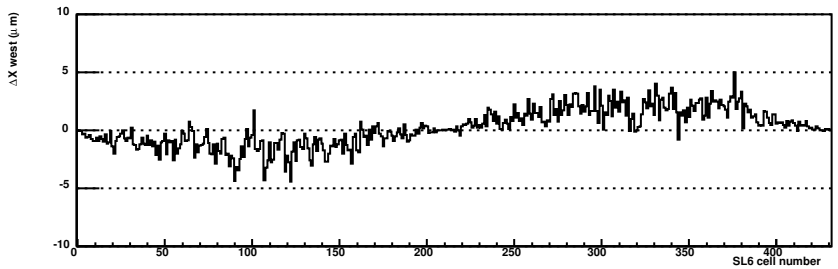

ΔX west (μm)
SL1 cell number

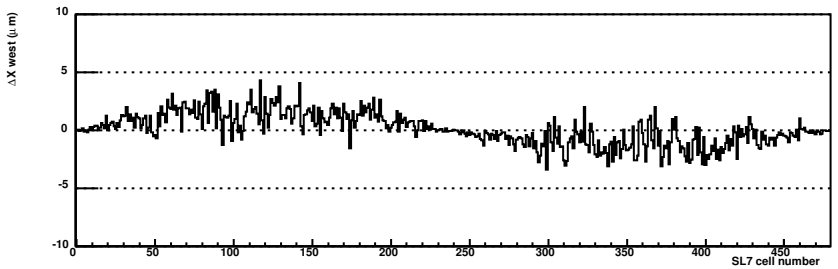

ΔX west (μm)
SL2 cell number

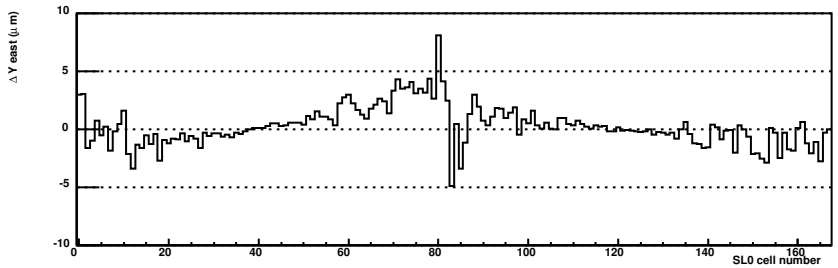

ΔX west (μm)
SL3 cell number

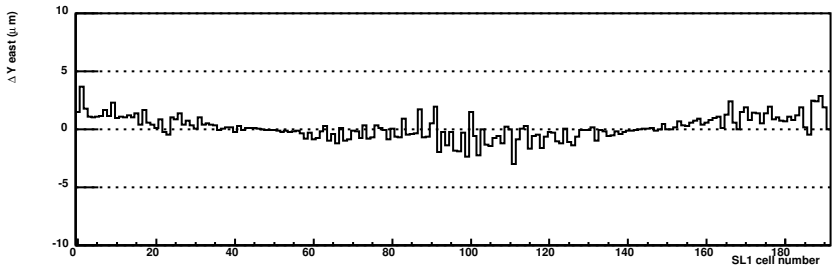

ΔX west (μm)
SL4 cell number

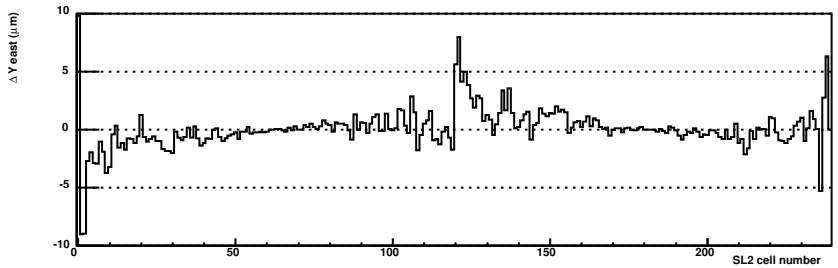

ΔX west (μm)
SL5 cell number

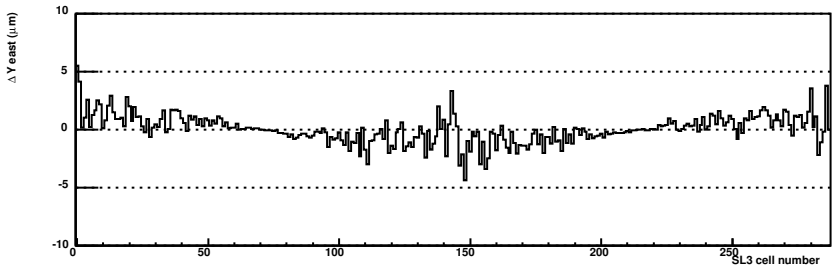

ΔX west (μm)
SL6 cell number

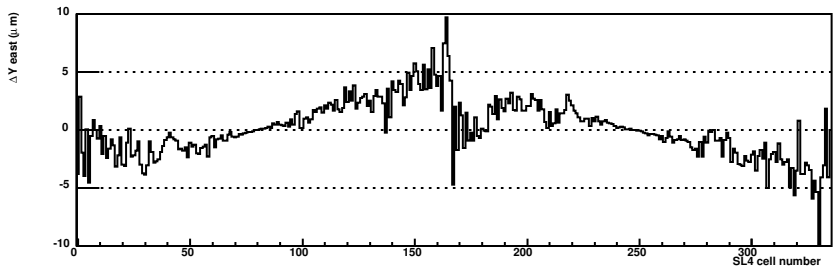

ΔX west (μm)
SL7 cell number

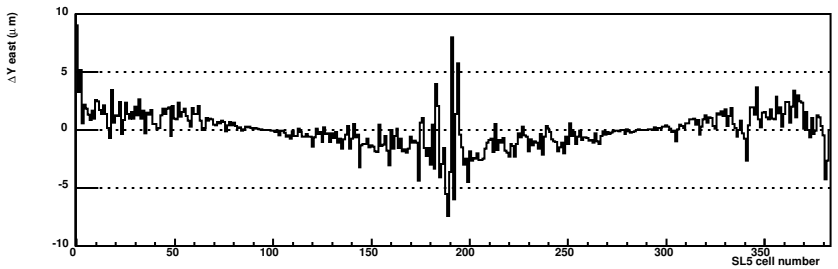

Δ Y east (μ m)
SL0 cell number

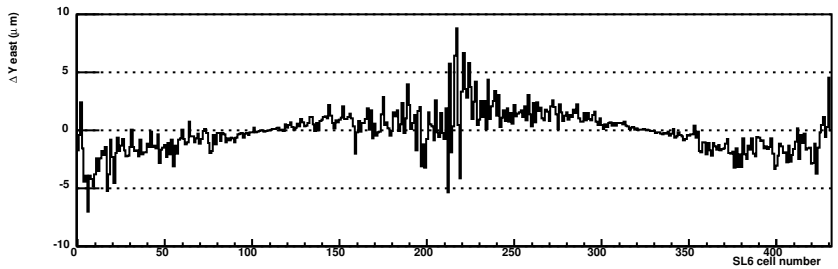

Δ Y east (μ m)
SL1 cell number

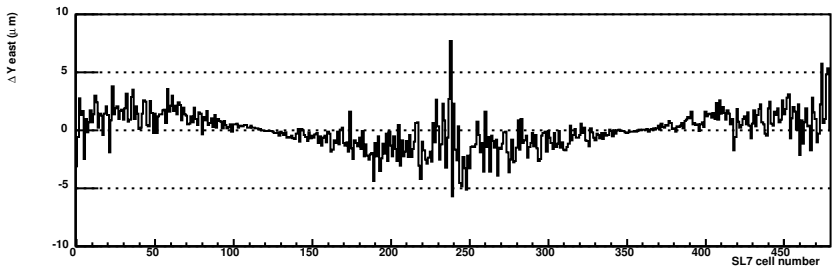

Δ Y east (μ m)
SL2 cell number

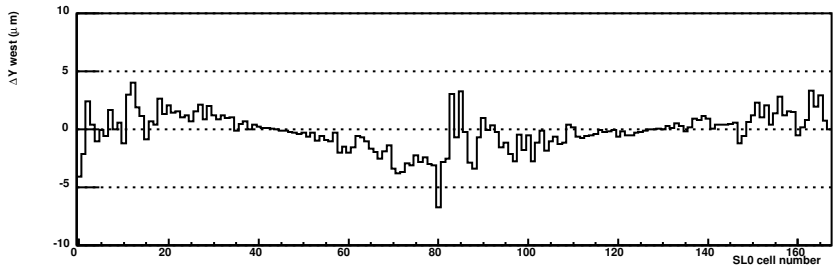

Δ Y east (μ m)
SL3 cell number

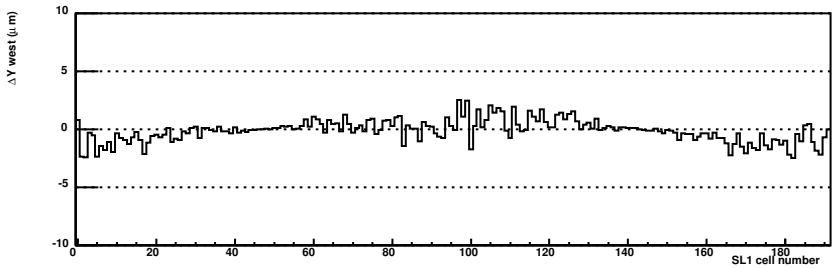

Δ Y east (μ m)
SL4 cell number

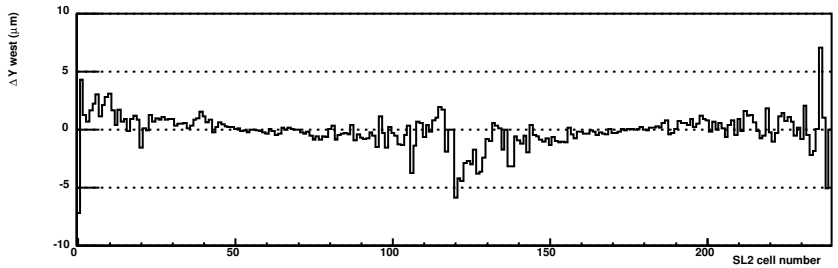

Δ Y east (μ m)
SL5 cell number

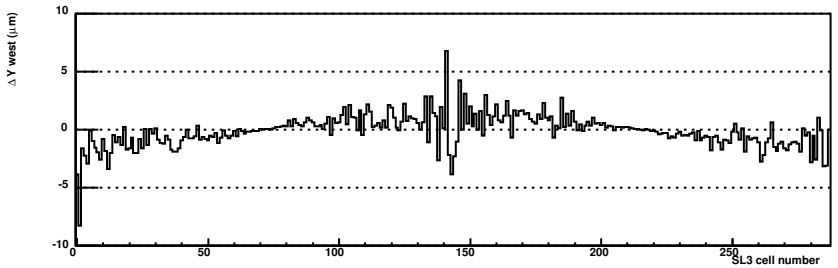

Δ Y east (μ m)
SL6 cell number

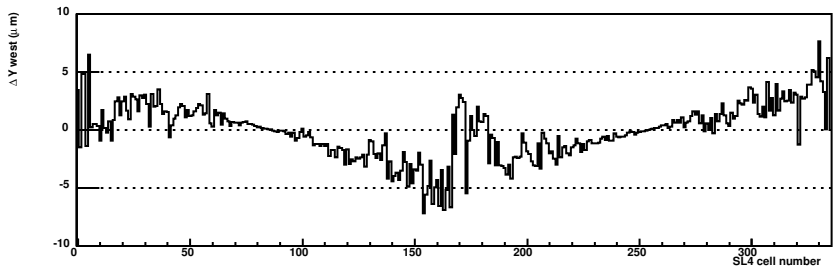

Δ Y east (μ m)
SL7 cell number

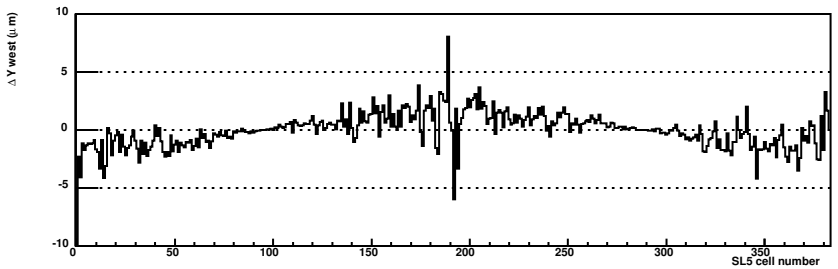

ΔY west (μm)
SL0 cell number

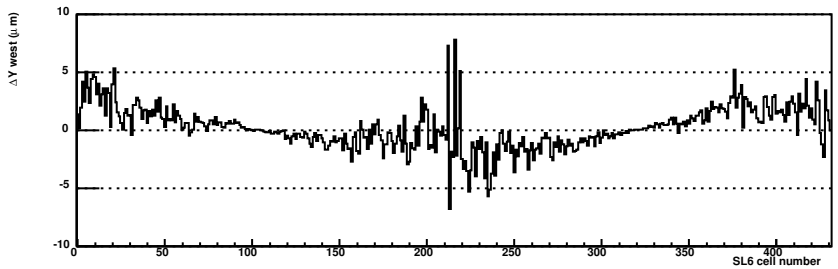

ΔY west (μm)
SL1 cell number

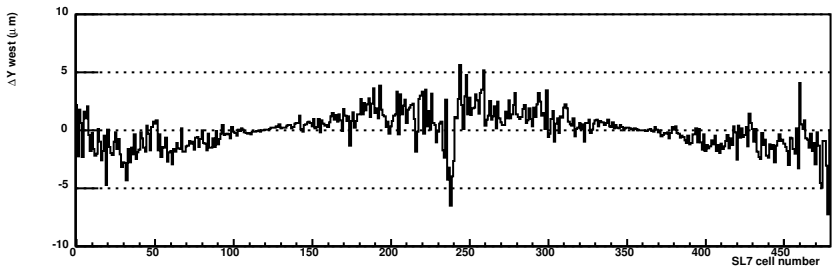

ΔY west (μm)
SL2 cell number

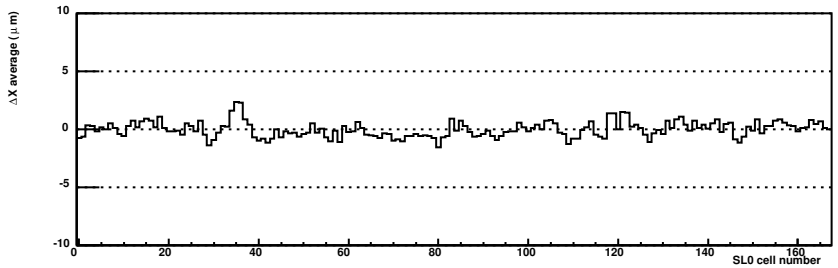

ΔY west (μm)
SL3 cell number

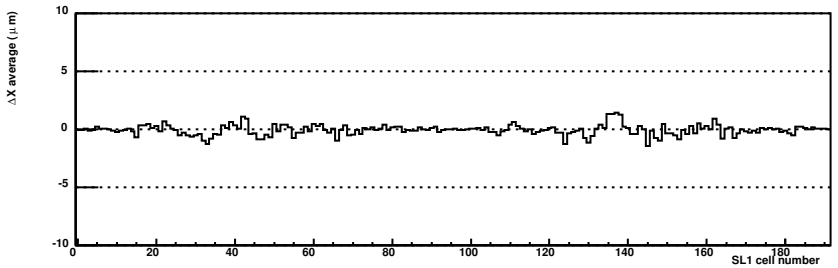

ΔY west (μm)
SL4 cell number

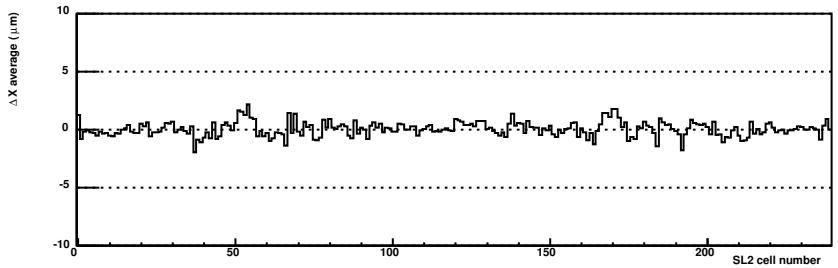

ΔY west (μm)
SL5 cell number

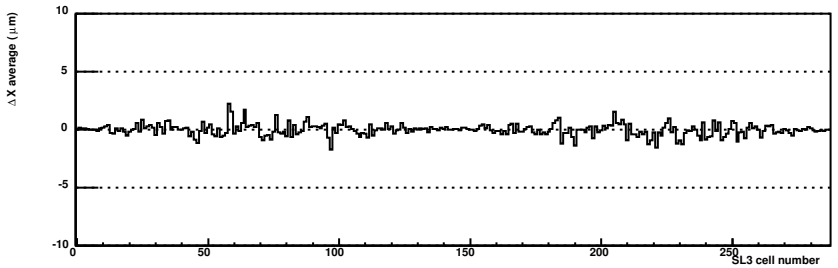

ΔY west (μm)
SL6 cell number

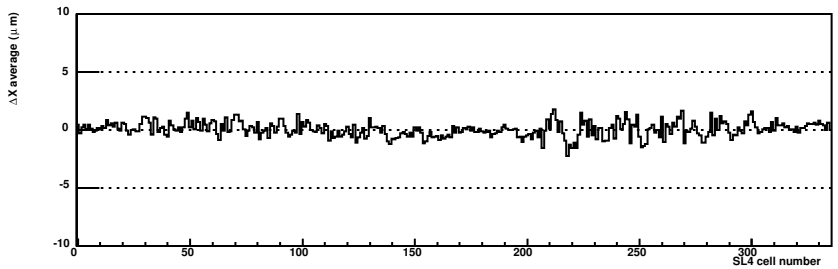

ΔY west (μm)
SL7 cell number

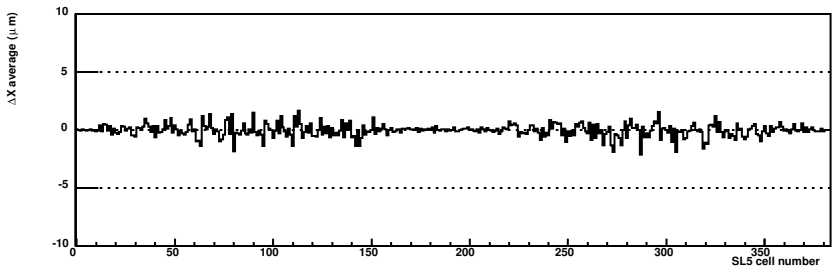

ΔX average (μm)
SL0 cell number

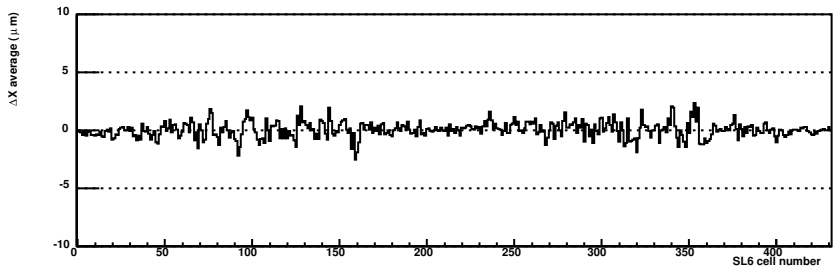

ΔX average (μm)
SL1 cell number

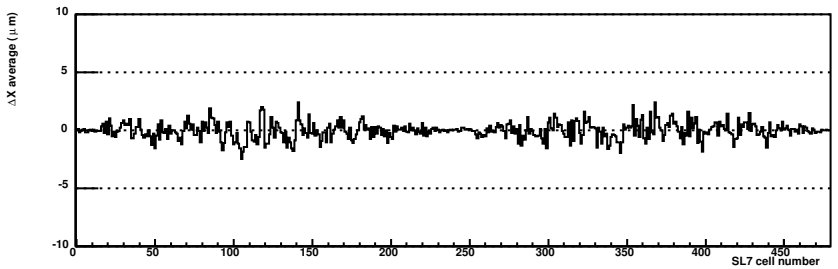

ΔX average (μm)
SL2 cell number

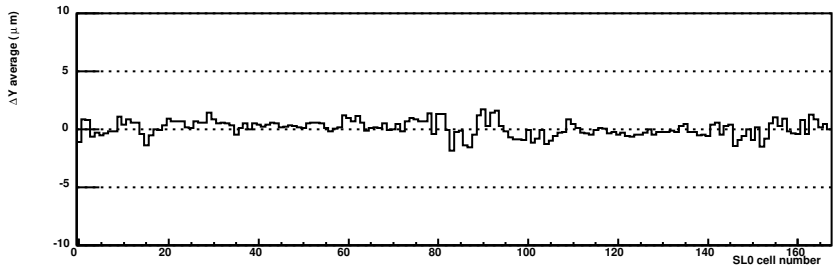

ΔX average (μm)
SL3 cell number

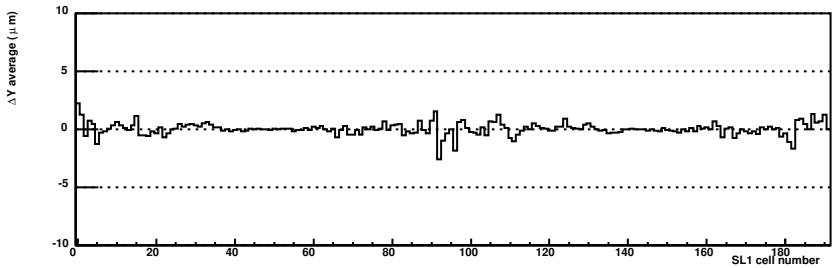

ΔX average (μm)
SL4 cell number

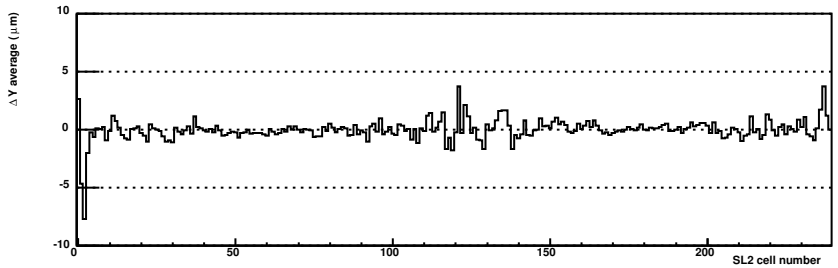

ΔX average (μm)
SL5 cell number

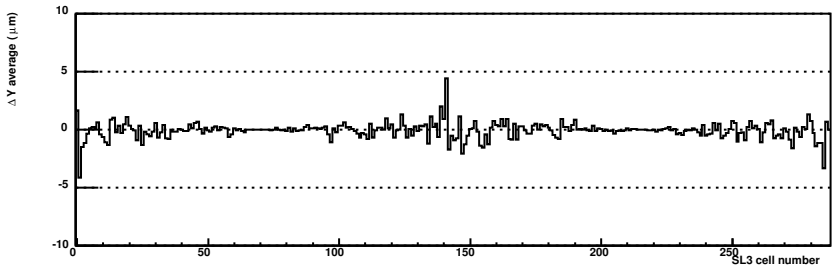

ΔX average (μm)
SL6 cell number

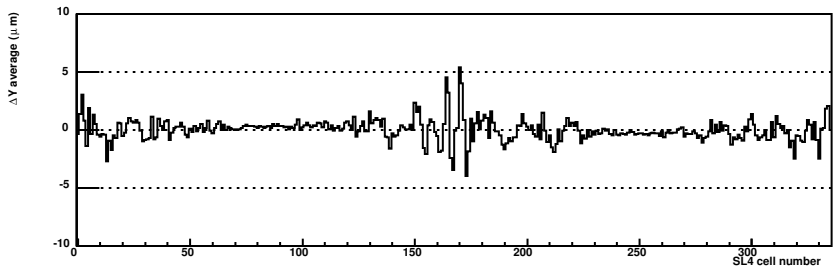

ΔX average (μm)
SL7 cell number

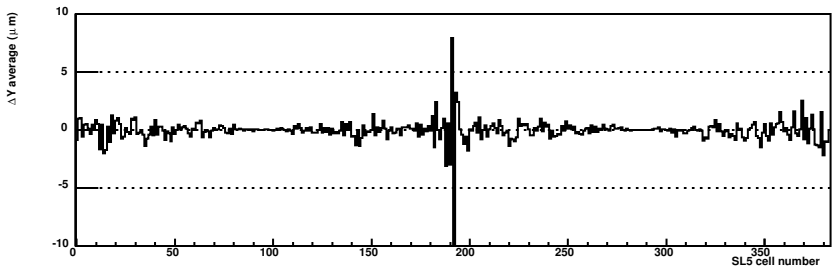

ΔY average (μm)
SL0 cell number

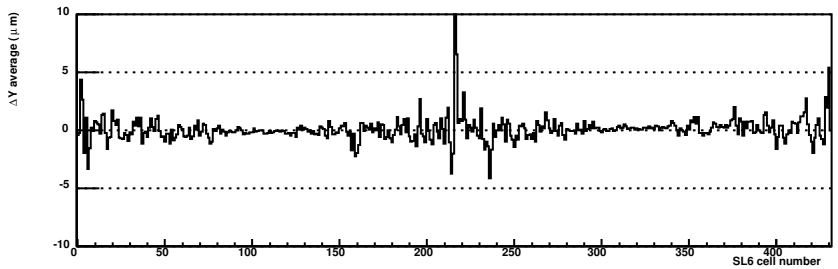

ΔY average (μm)
SL1 cell number

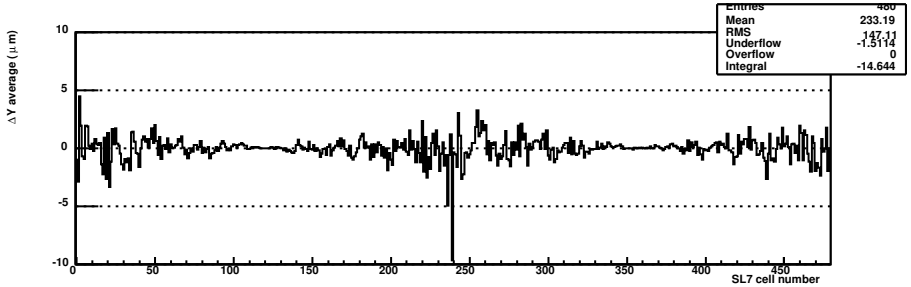

ΔY average (μm)
SL2 cell number

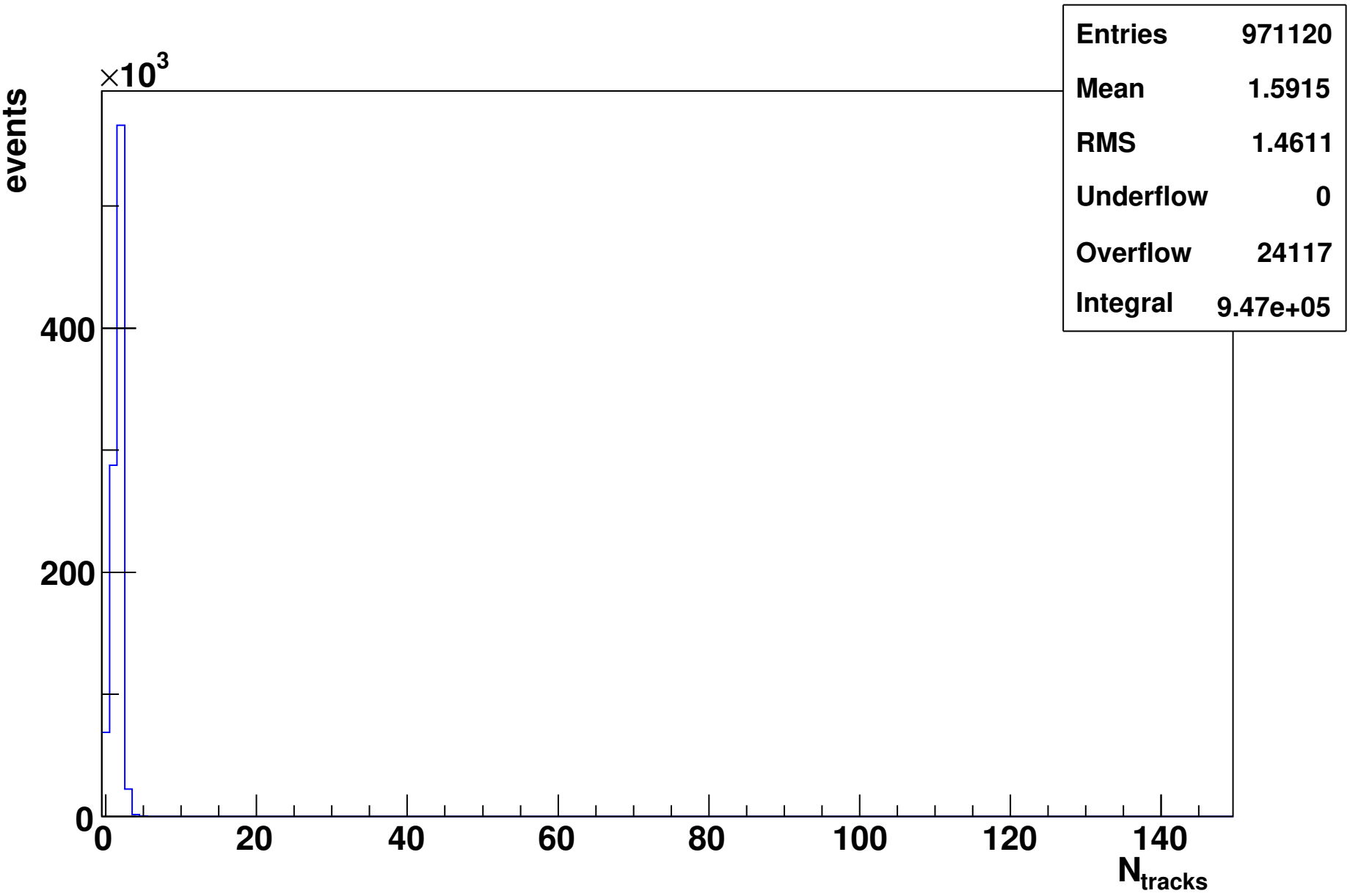

ΔY average (μm)
SL3 cell number

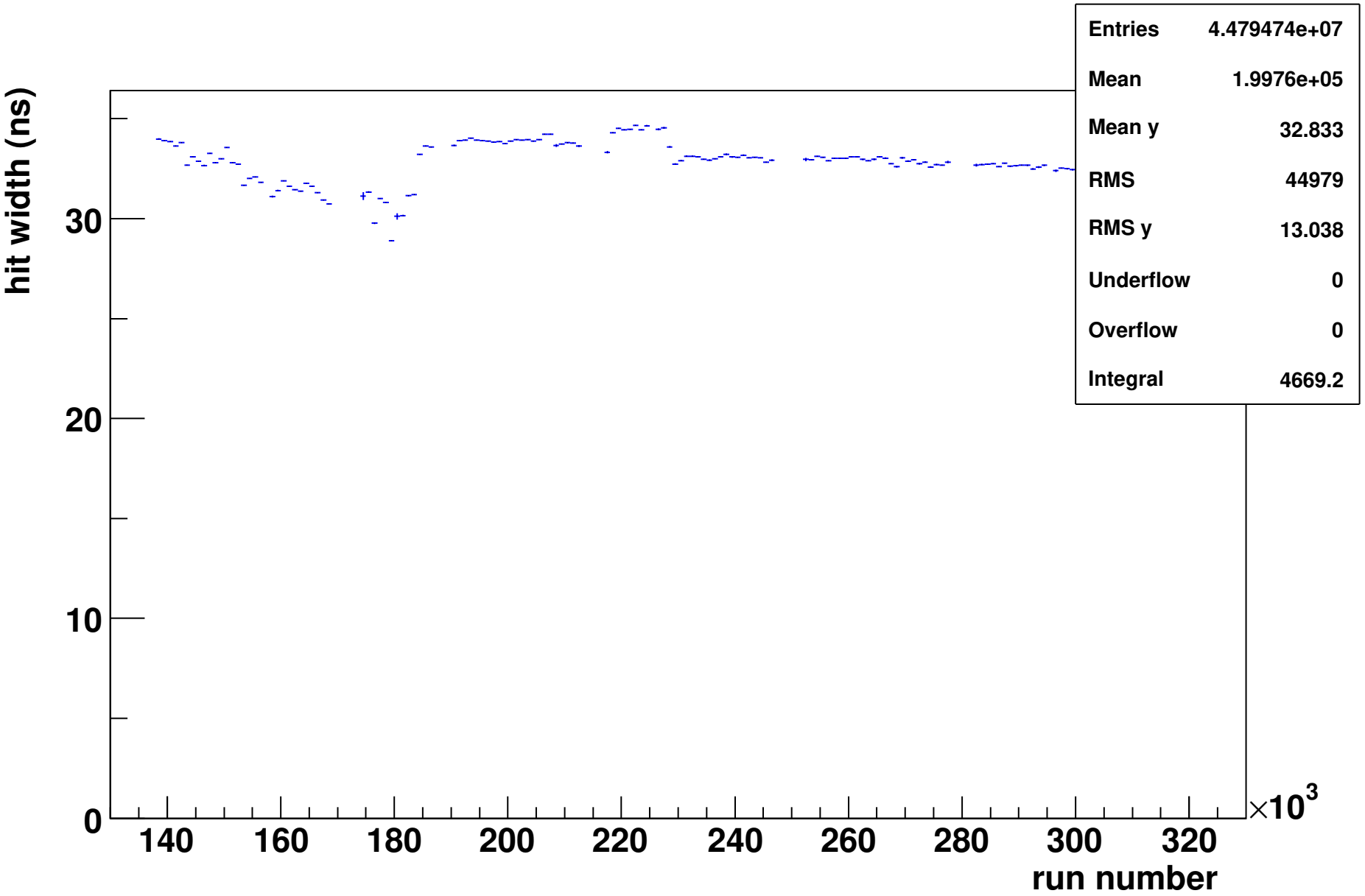

ΔY average (μm)
SL4 cell number

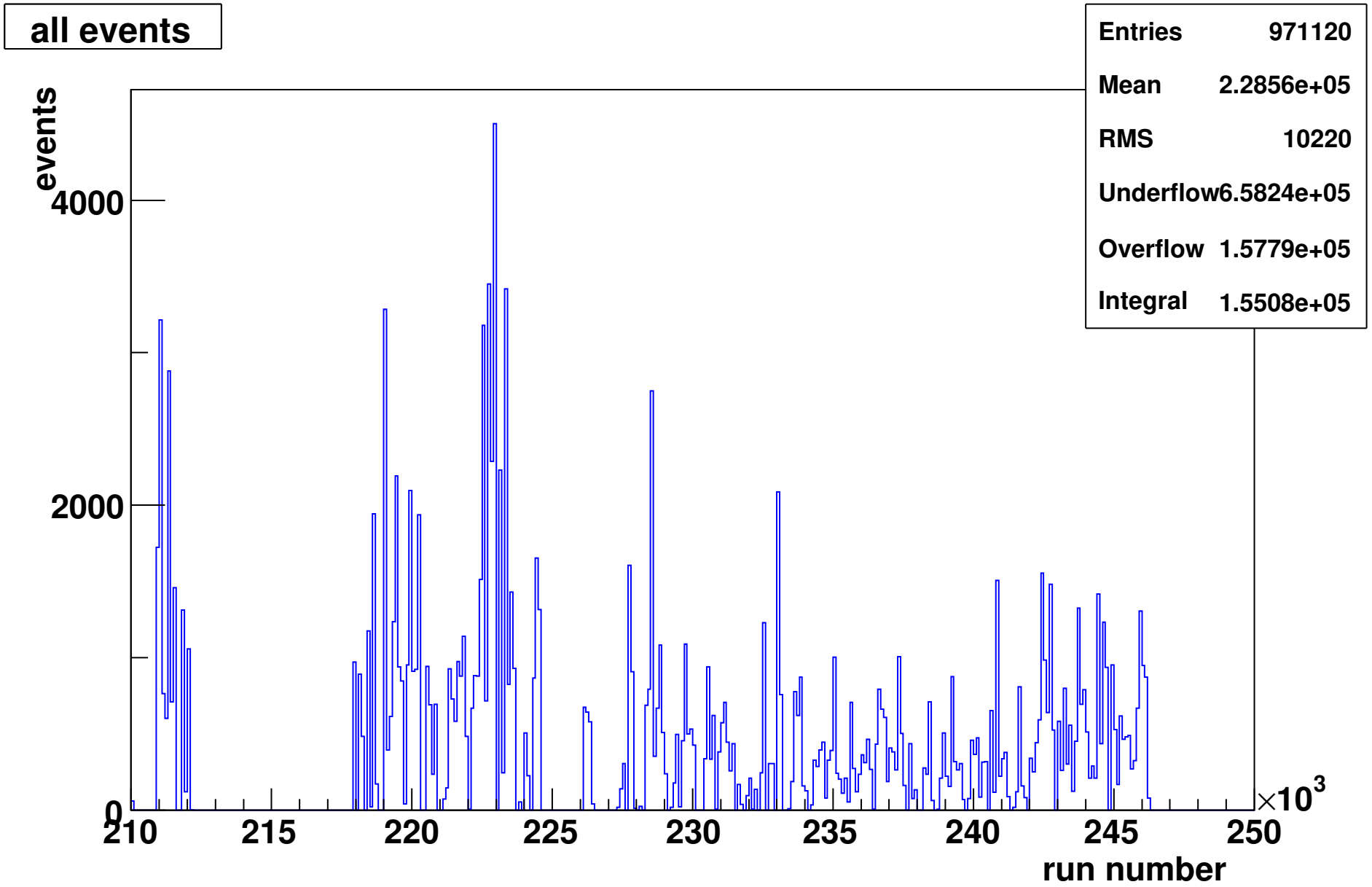

ΔY average (μm)
SL5 cell number

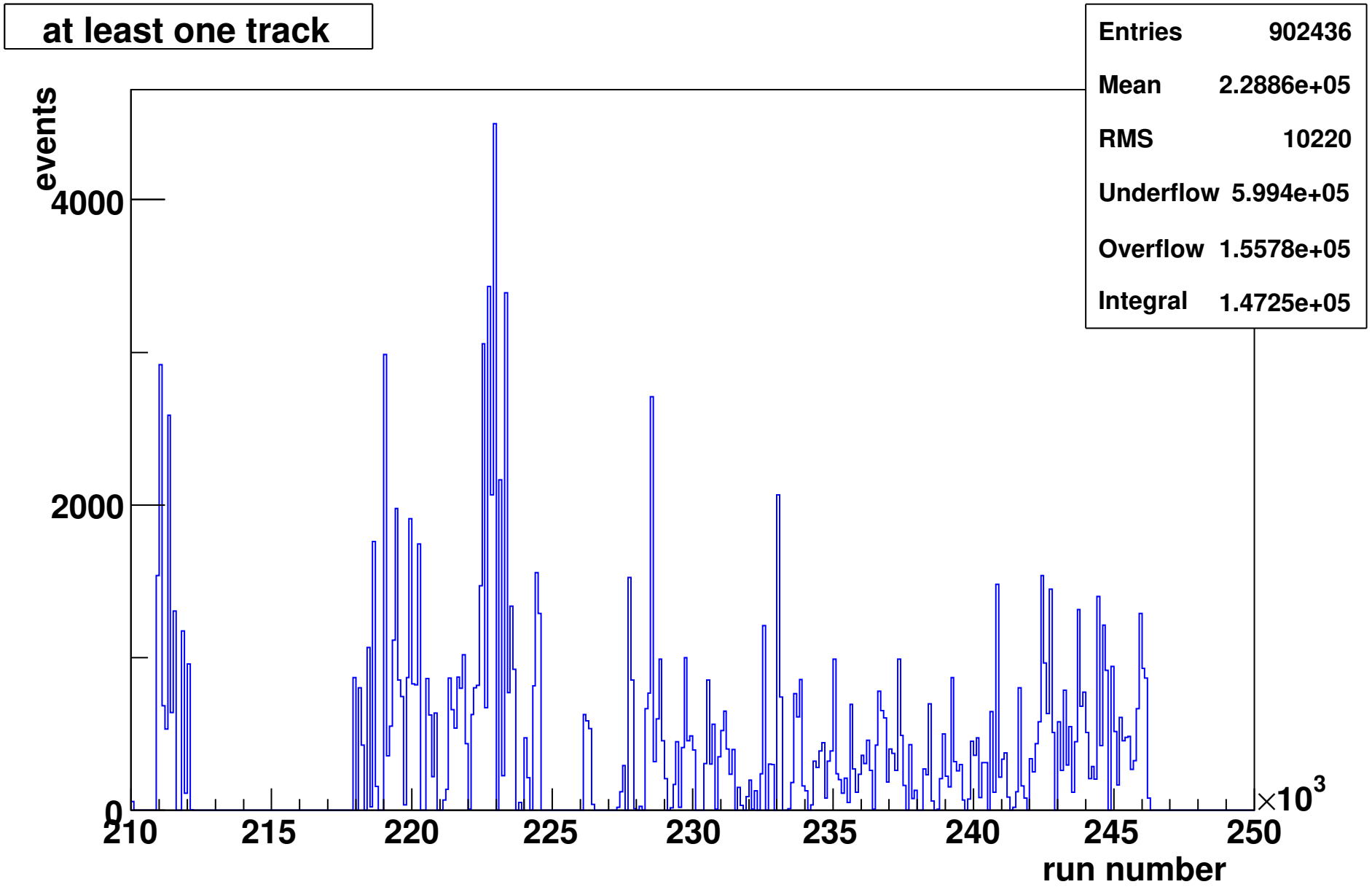

ΔY average (μm)
SL6 cell number

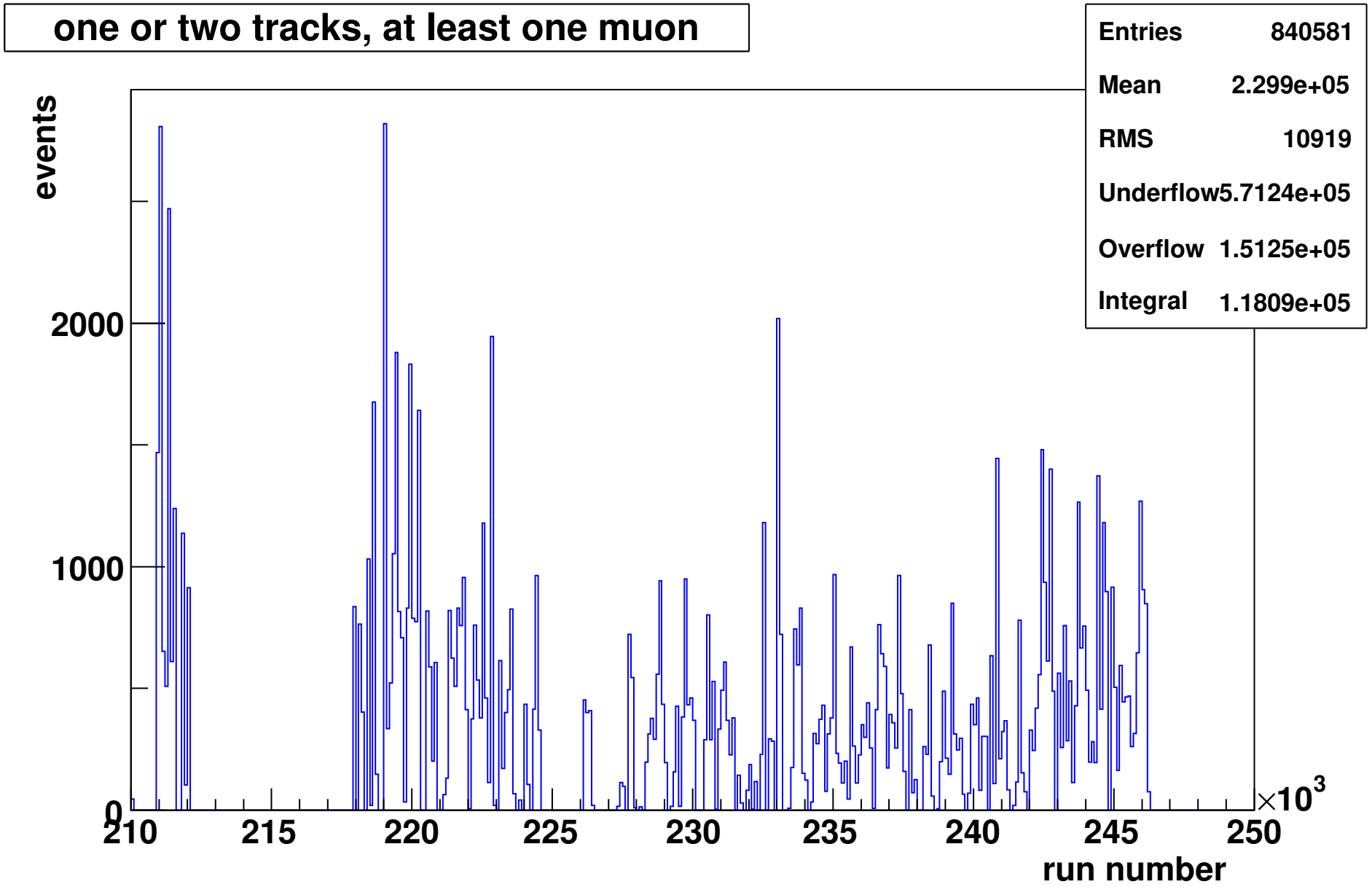

Entries 480
Mean 233.19
RMS 147.11
Underflow -1.5114
Overflow 0
Integral -14.644
ΔY average (μm)
SL7 cell number

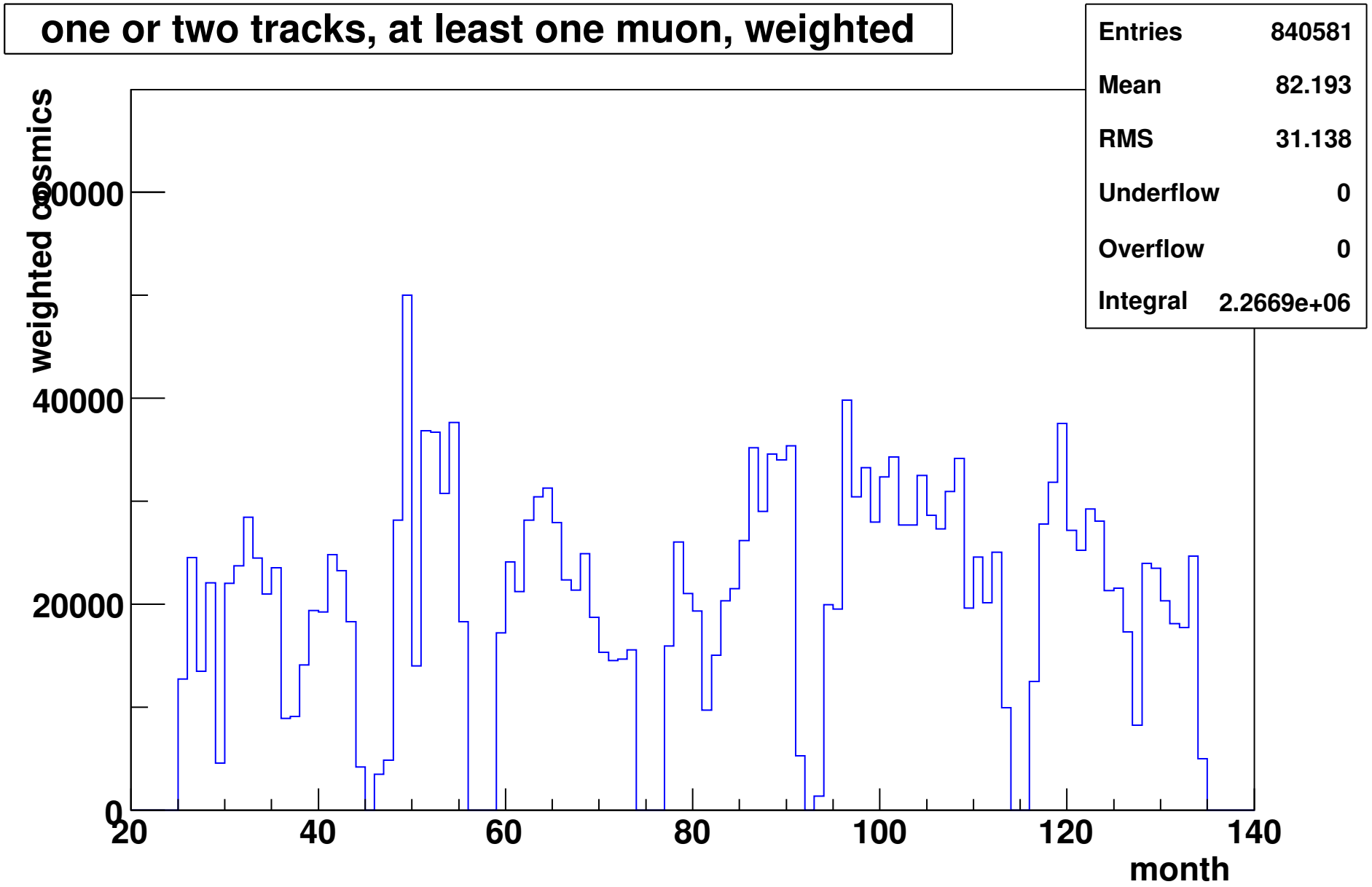

Entries 971120
Mean 1.5915
RMS 1.4611
Underflow 0
Overflow 24117
Integral 9.47e+05
×10^3
events
400
200
0
0
20
40
60
80
100
120
140
N_tracks

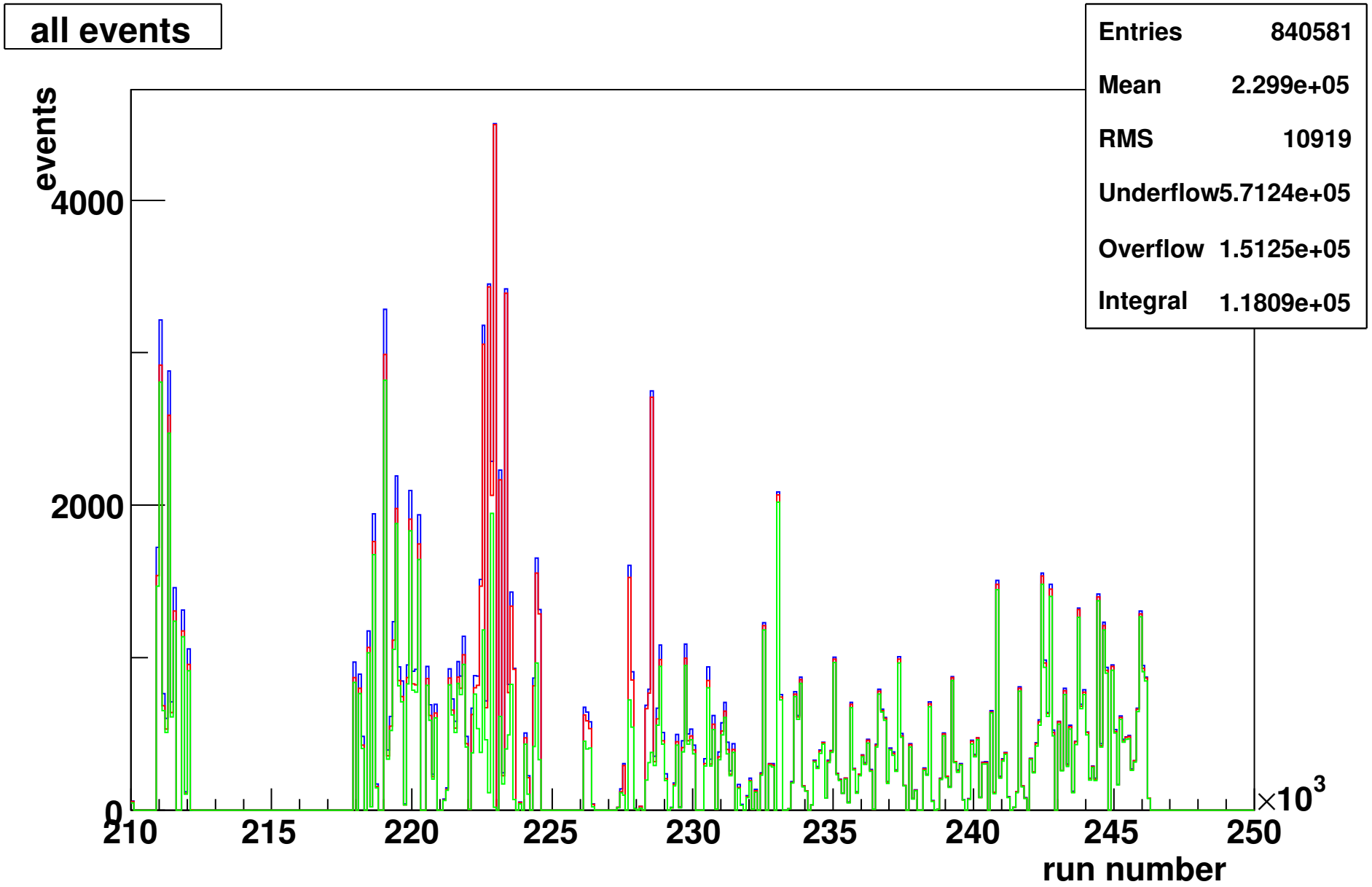

hit width (ns)
0
10
20
30
140
160
180
200
220
240
260
280
300
320
×10^3
run number
Entries 4.479474e+07
Mean 1.9976e+05
Mean y 32.833
RMS 44979
RMS y 13.038
Underflow 0
Overflow 0
Integral 4669.2

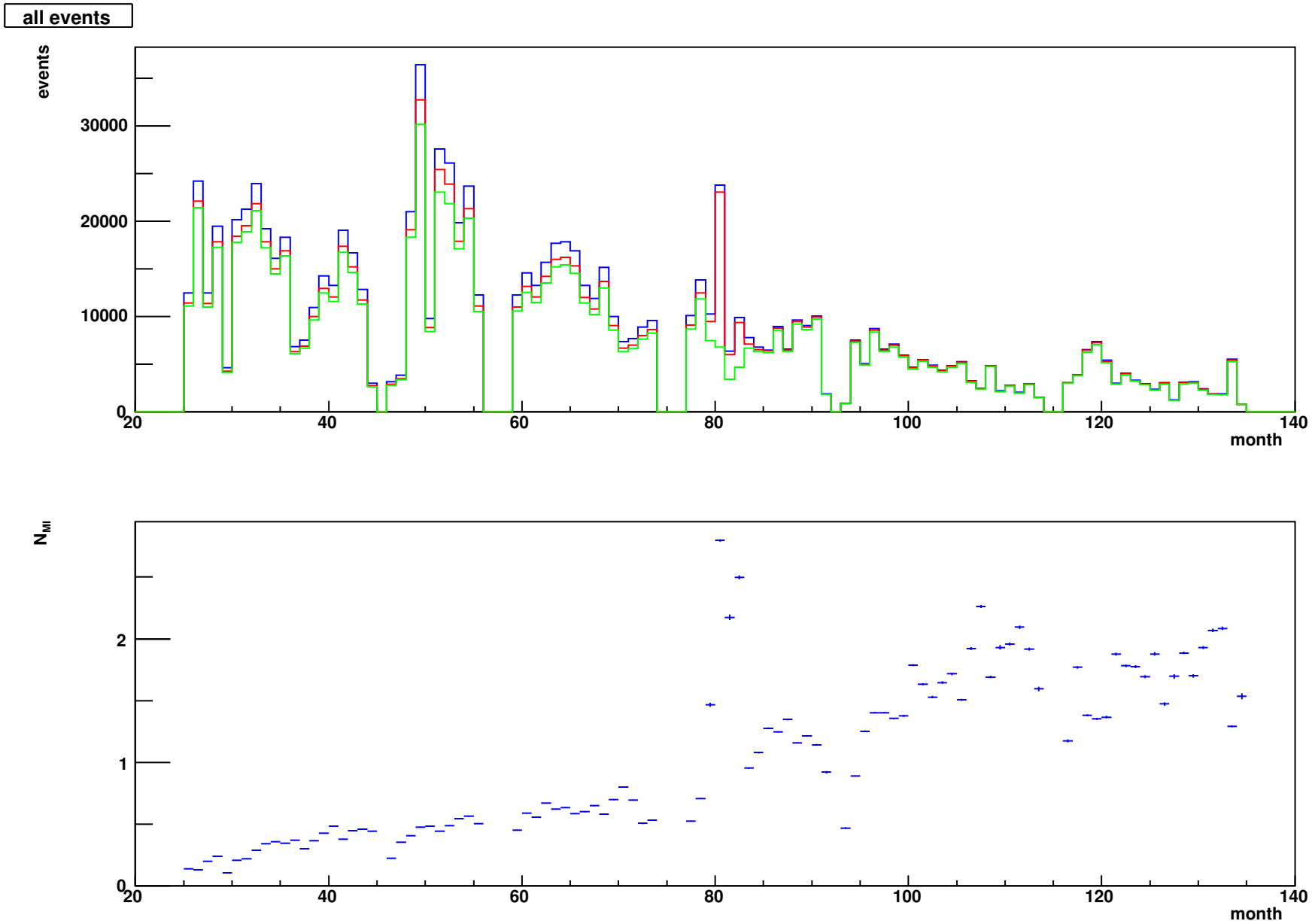

all events
Entries 971120
Mean 2.2856e+05
RMS 10220
Underflow 6.5824e+05
Overflow 1.5779e+05
Integral 1.5508e+05
events
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

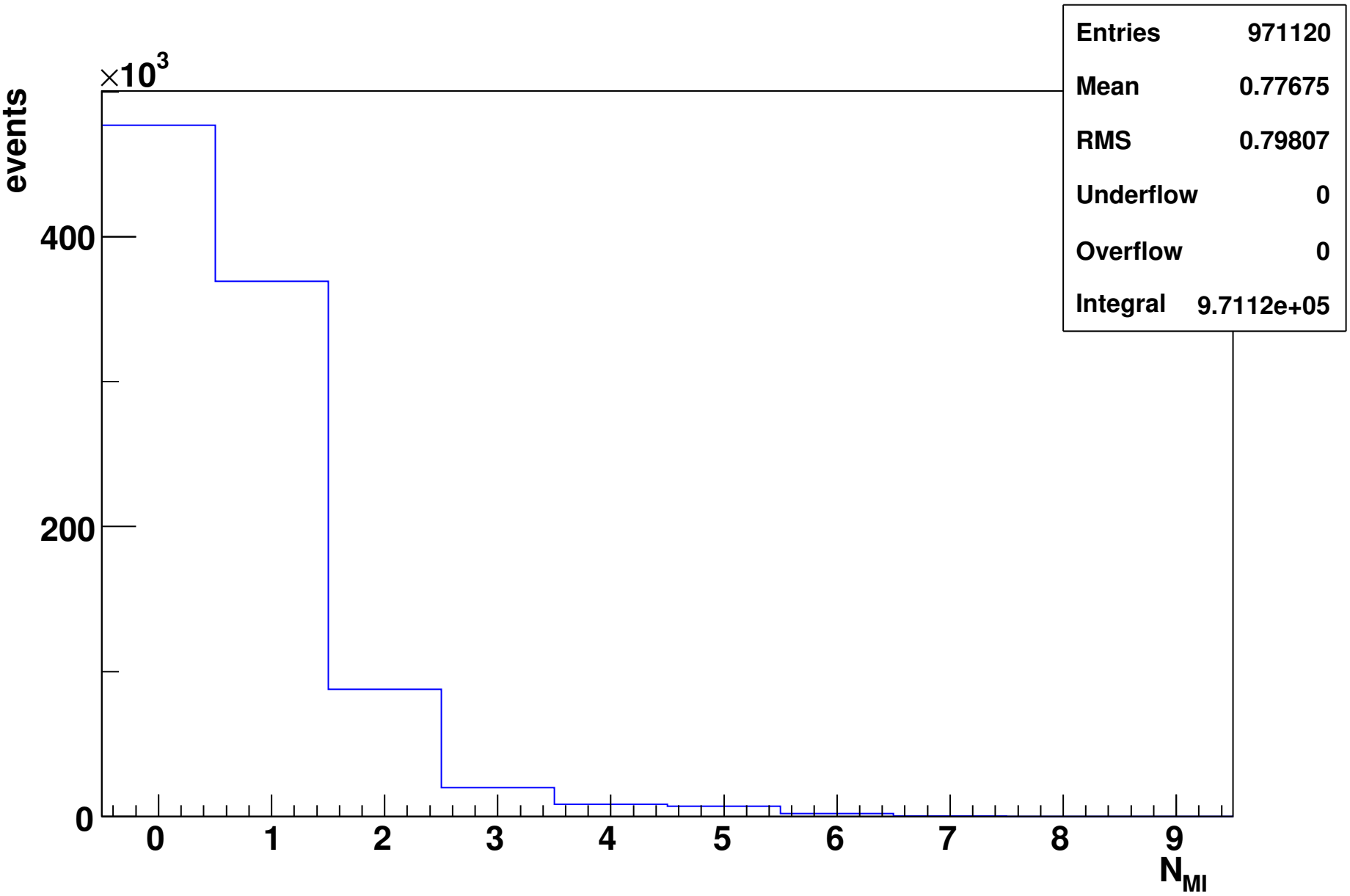

at least one track
Entries 902436
Mean 2.2886e+05
RMS 10220
Underflow 5.994e+05
Overflow 1.5578e+05
Integral 1.4725e+05
events
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

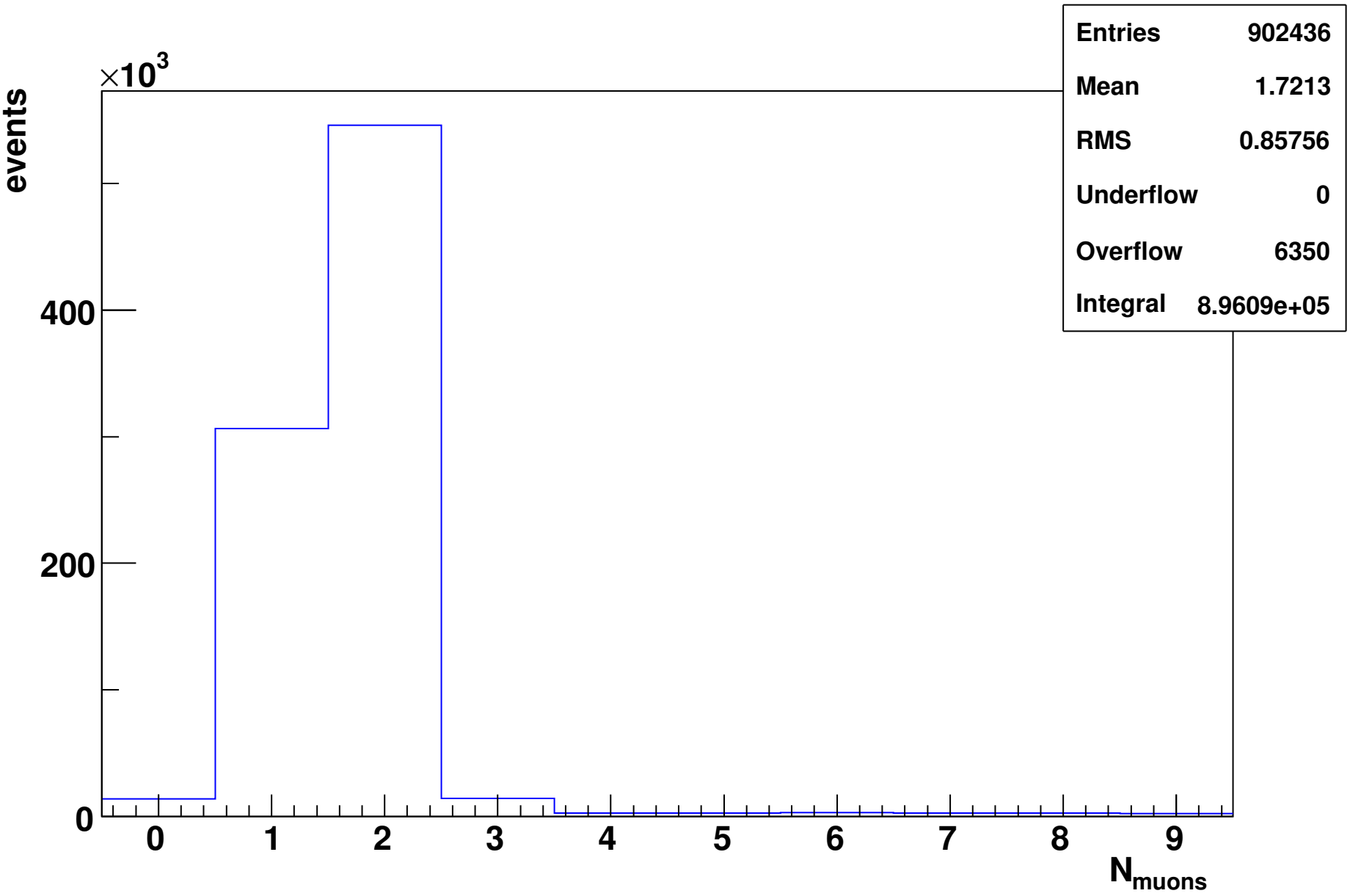

one or two tracks, at least one muon
Entries 840581
Mean 2.299e+05
RMS 10919
Underflow 5.7124e+05
Overflow 1.5125e+05
Integral 1.1809e+05
events
2000
1000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

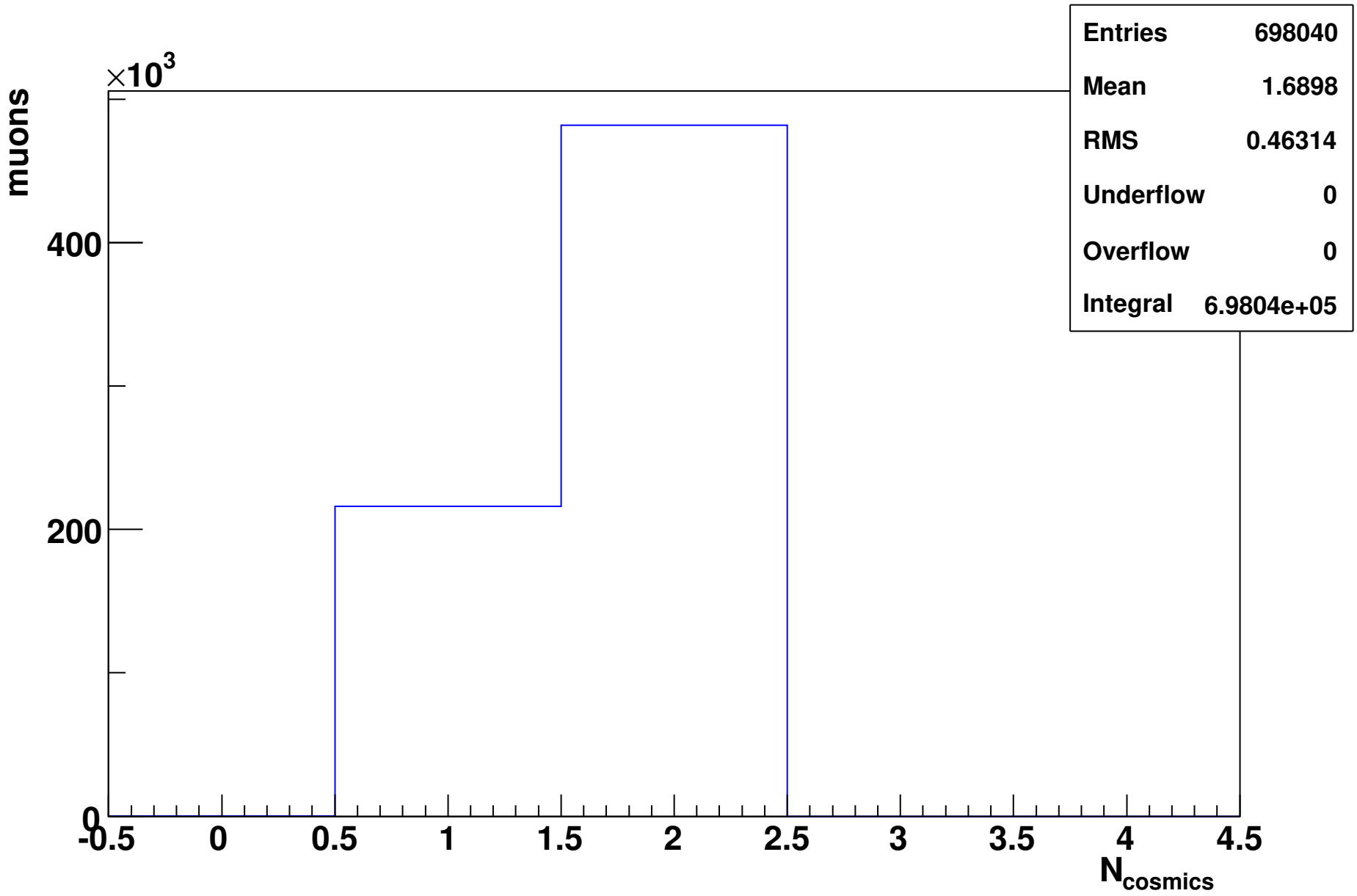

one or two tracks, at least one muon, weighted
Entries 840581
Mean 82.193
RMS 31.138
Underflow 0
Overflow 0
Integral 2.2669e+06
weighted cosmics
60000
40000
20000
0
20
40
60
80
100
120
140
month

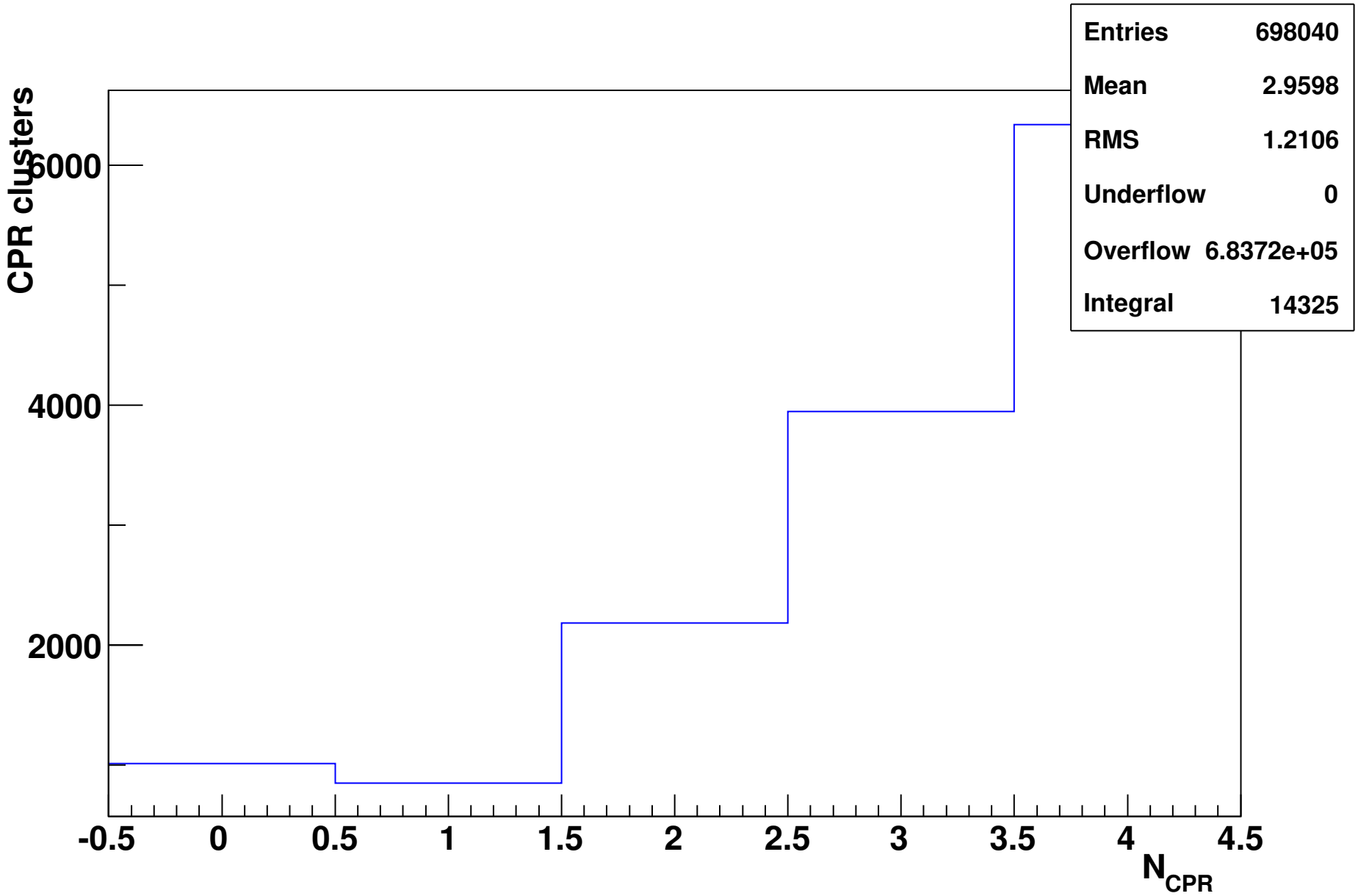

all events
Entries 840581
Mean 2.299e+05
RMS 10919
Underflow 5.7124e+05
Overflow 1.5125e+05
Integral 1.1809e+05
events
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

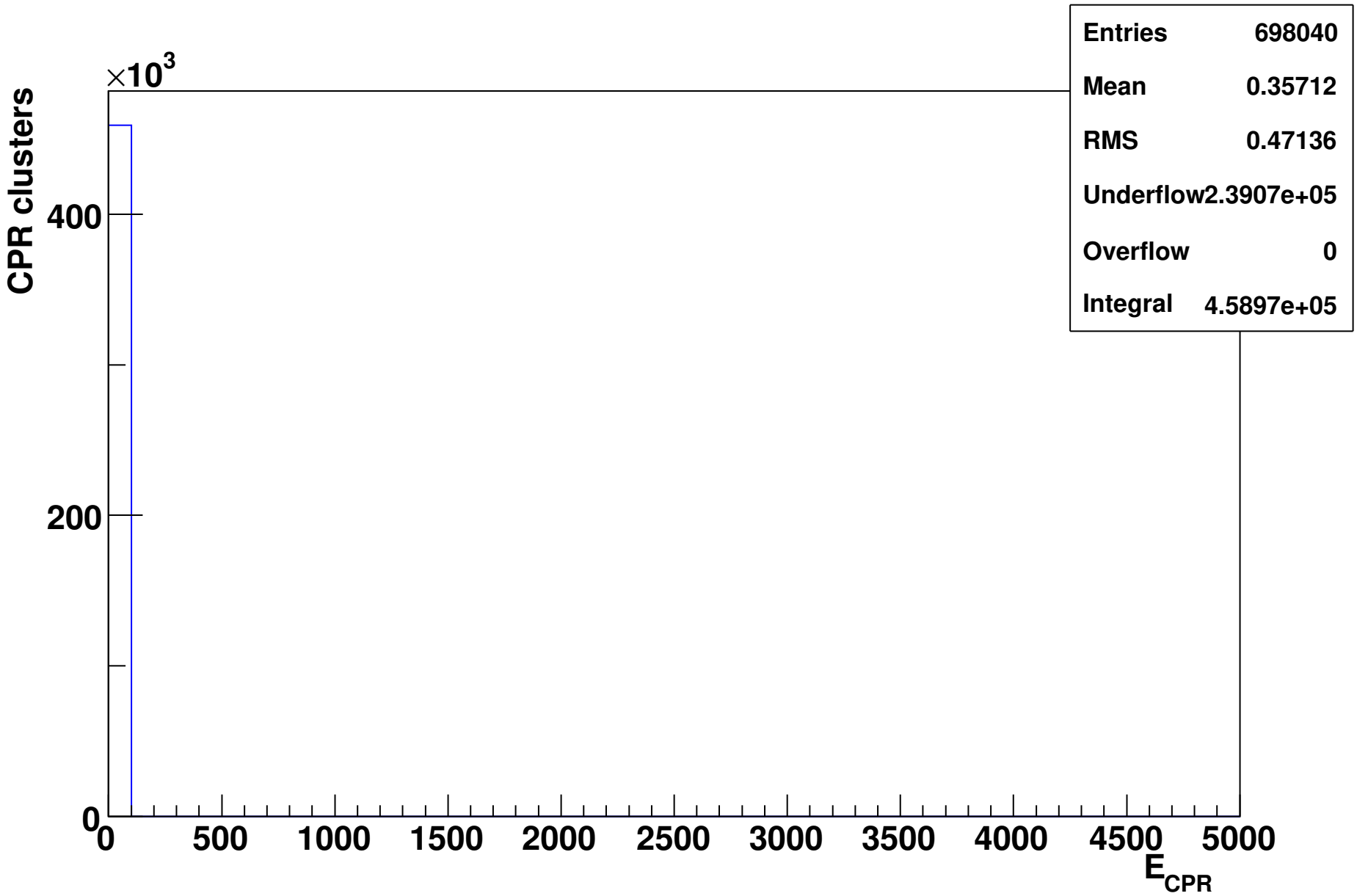

all events
events
30000
20000
10000
0
20
40
60
80
100
120
140
month
N_{MI}
2
1
0
20
40
60
80
100
120
140
month

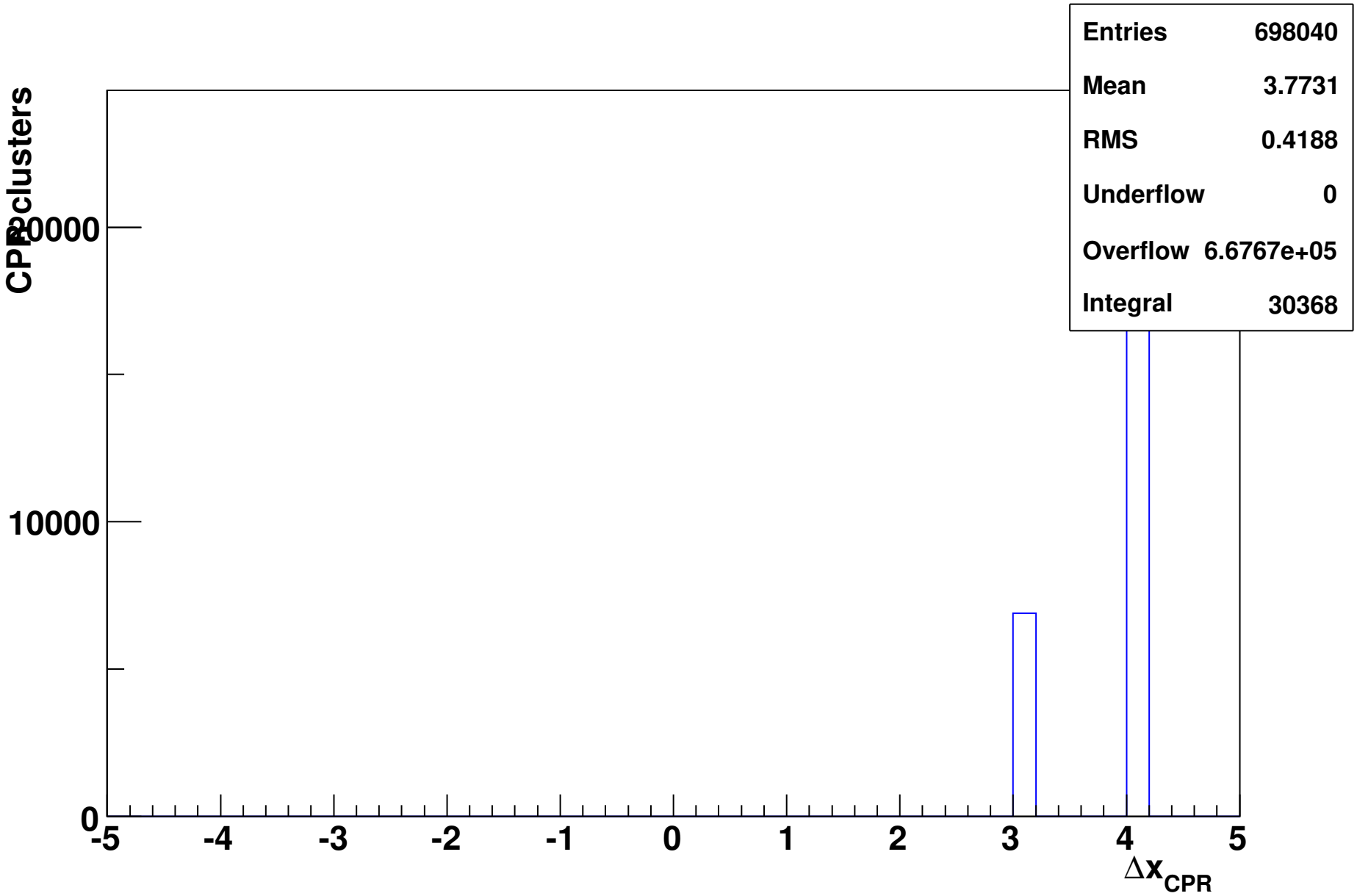

Entries 971120
Mean 0.77675
RMS 0.79807
Underflow 0
Overflow 0
Integral 9.7112e+05
events
×10^3
400
200
0
0 1 2 3 4 5 6 7 8 9
N_MI

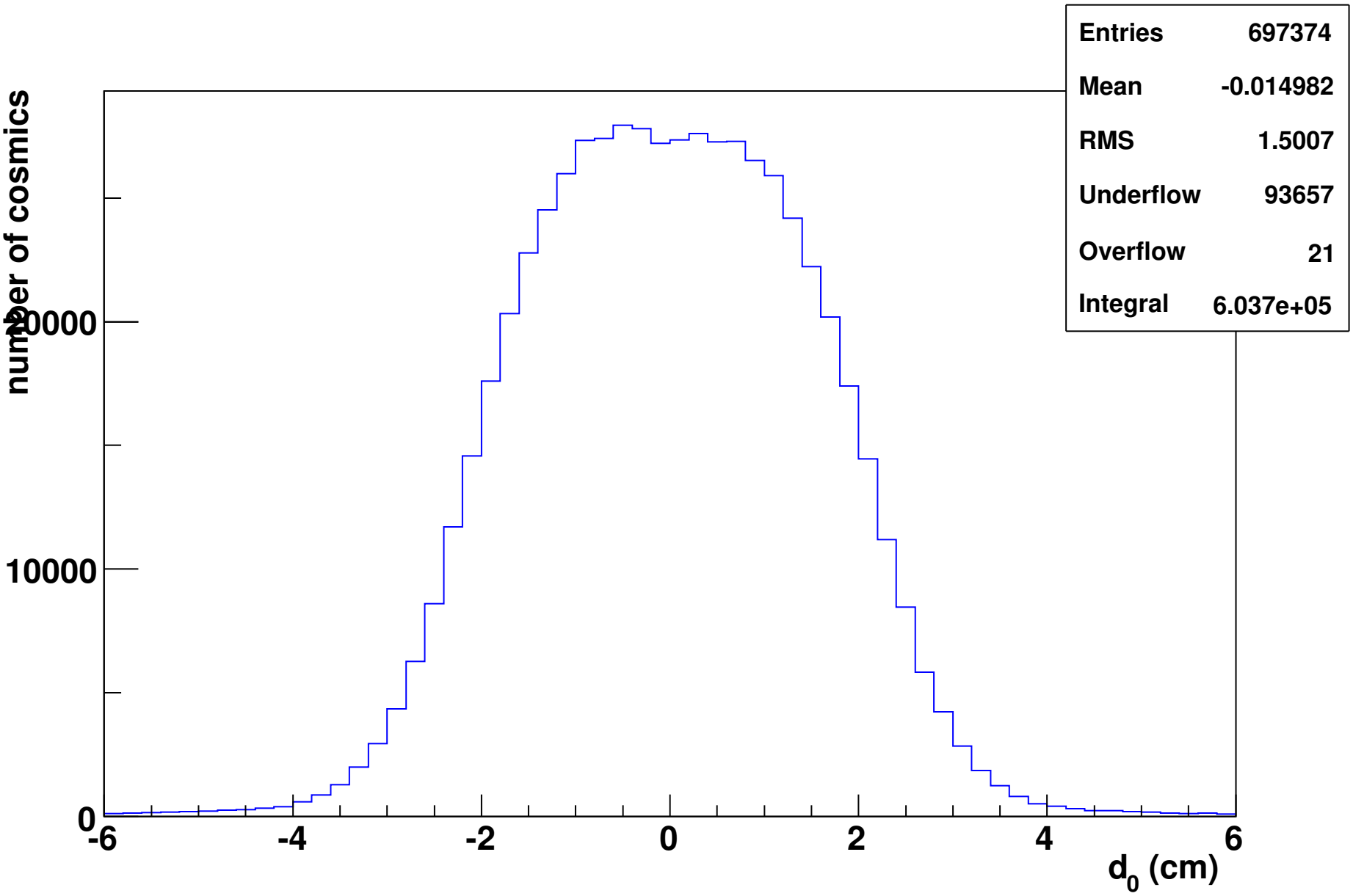

Entries 902436
Mean 1.7213
RMS 0.85756
Underflow 0
Overflow 6350
Integral 8.9609e+05
×10^3
events
400
200
0
0
1
2
3
4
5
6
7
8
9
N_muons

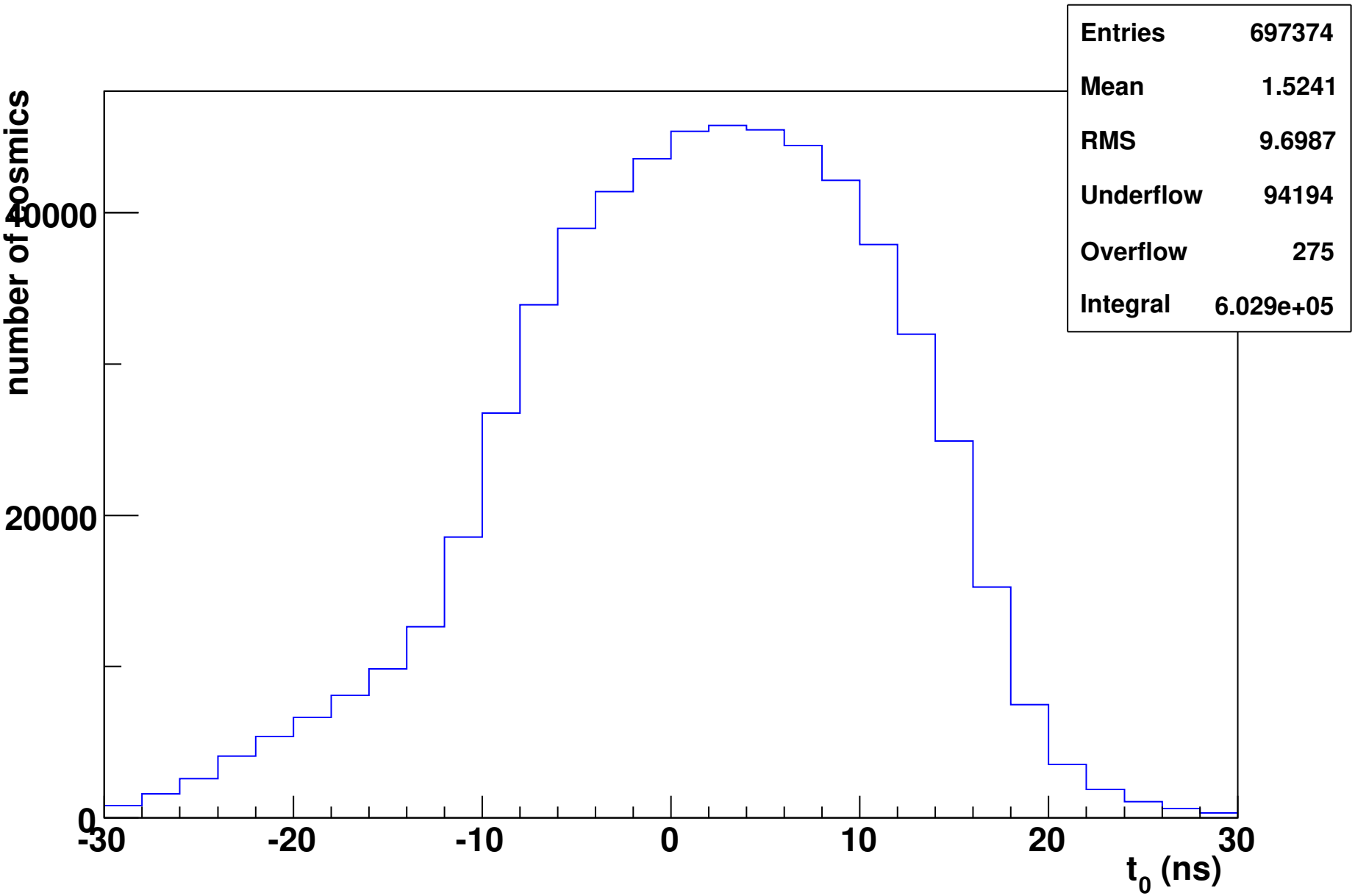

Entries 698040
Mean 1.6898
RMS 0.46314
Underflow 0
Overflow 0
Integral 6.9804e+05
muons
×10^3
400
200
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_cosmics

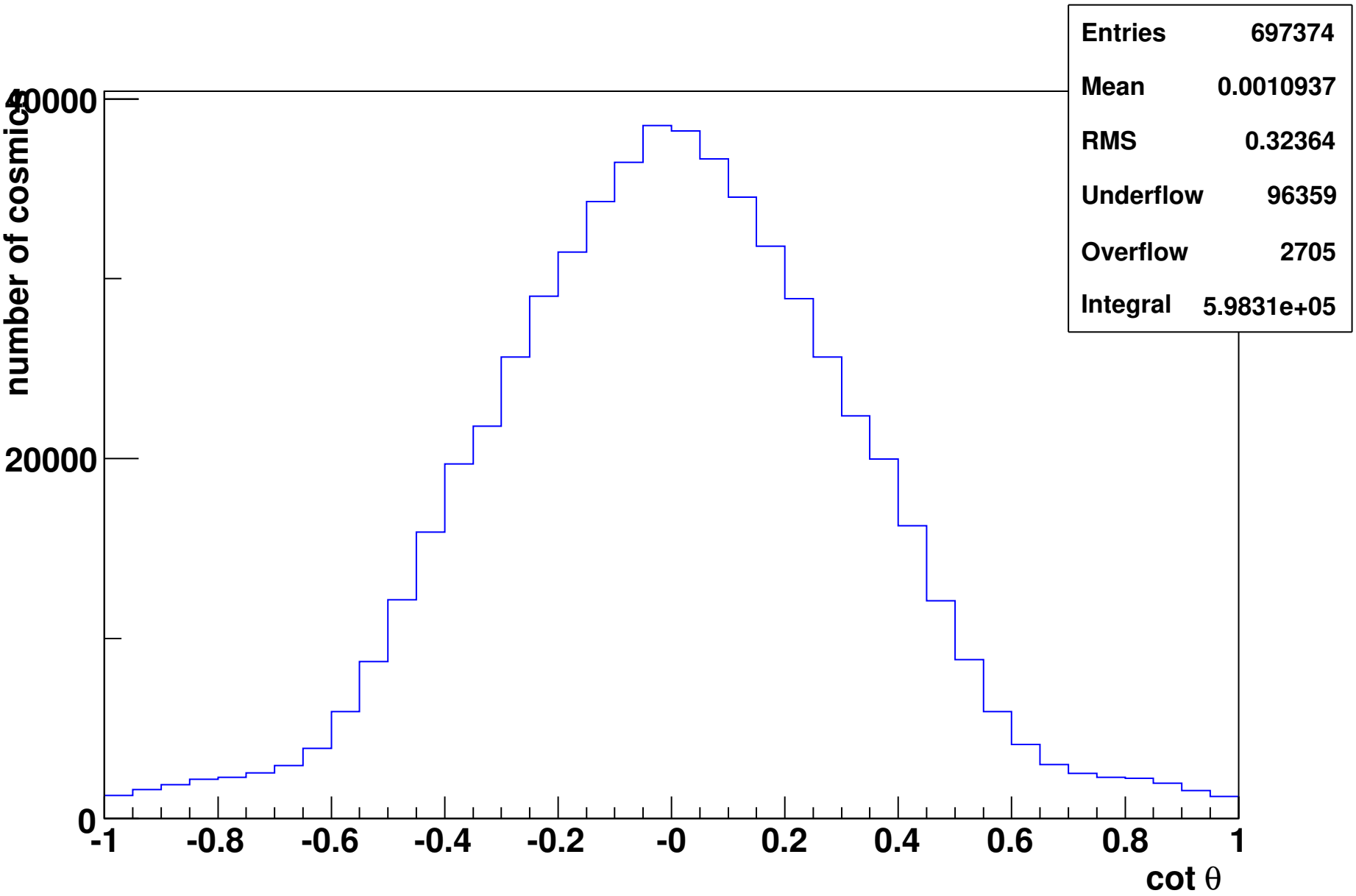

Entries 698040
Mean 2.9598
RMS 1.2106
Underflow 0
Overflow 6.8372e+05
Integral 14325
CPR clusters
6000
4000
2000
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_CPR

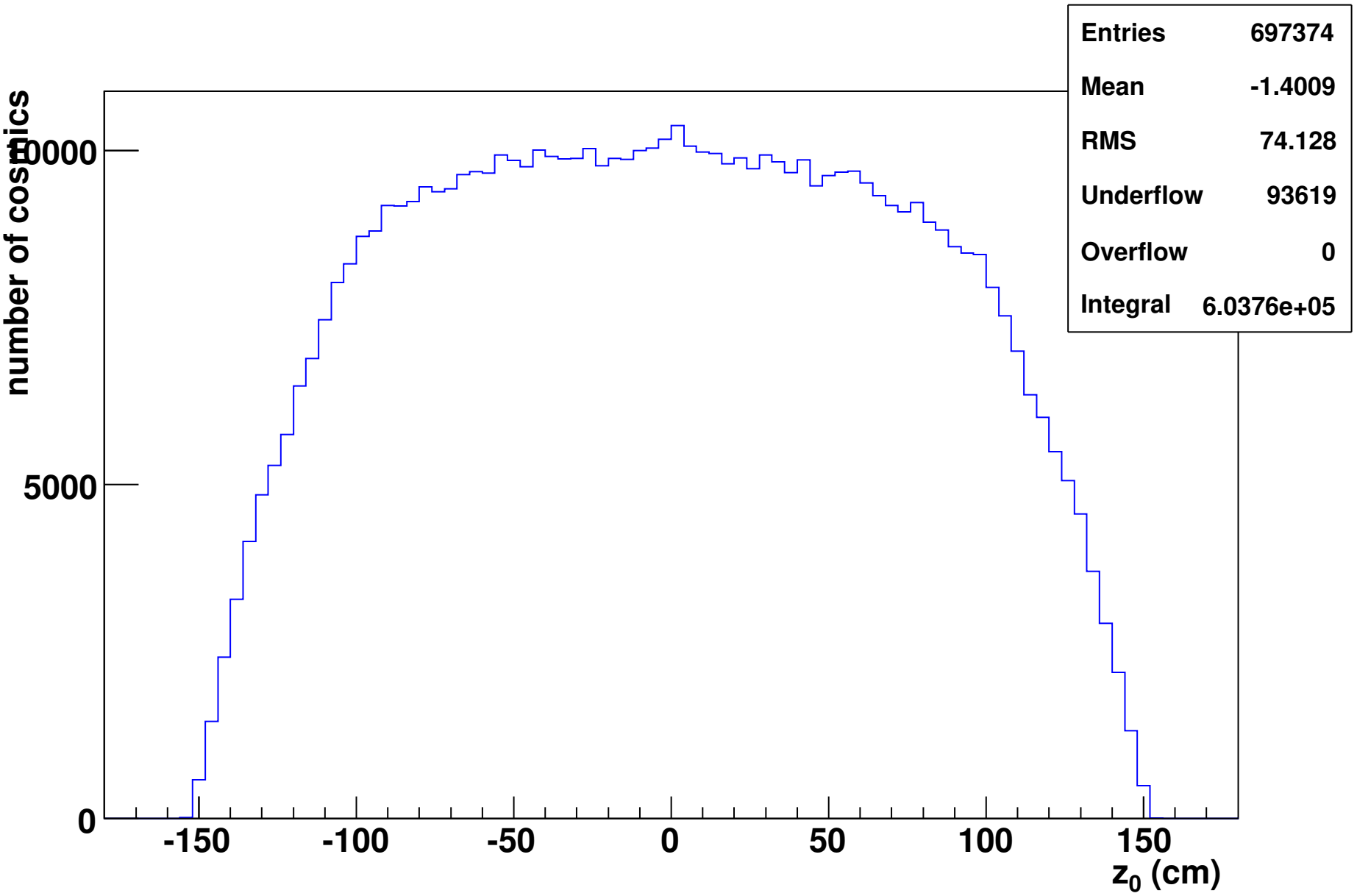

Entries 698040
Mean 0.35712
RMS 0.47136
Underflow 2.3907e+05
Overflow 0
Integral 4.5897e+05
×10^3
CPR clusters
400
200
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
E_CPR

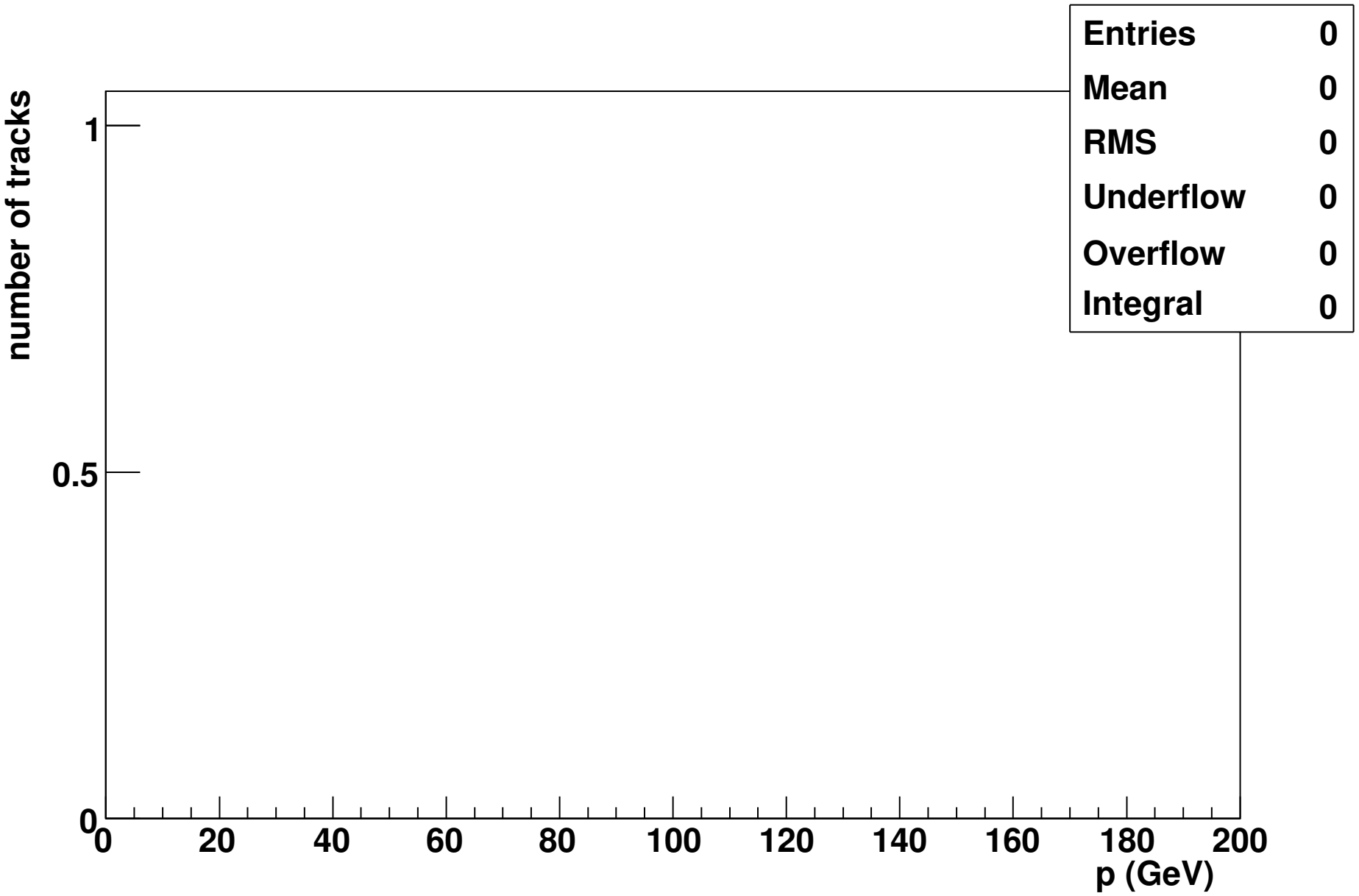

Entries 698040
Mean 3.7731
RMS 0.4188
Underflow 0
Overflow 6.6767e+05
Integral 30368
CPR clusters
20000
10000
0
-5
-4
-3
-2
-1
0
1
2
3
4
5
Δx_CPR

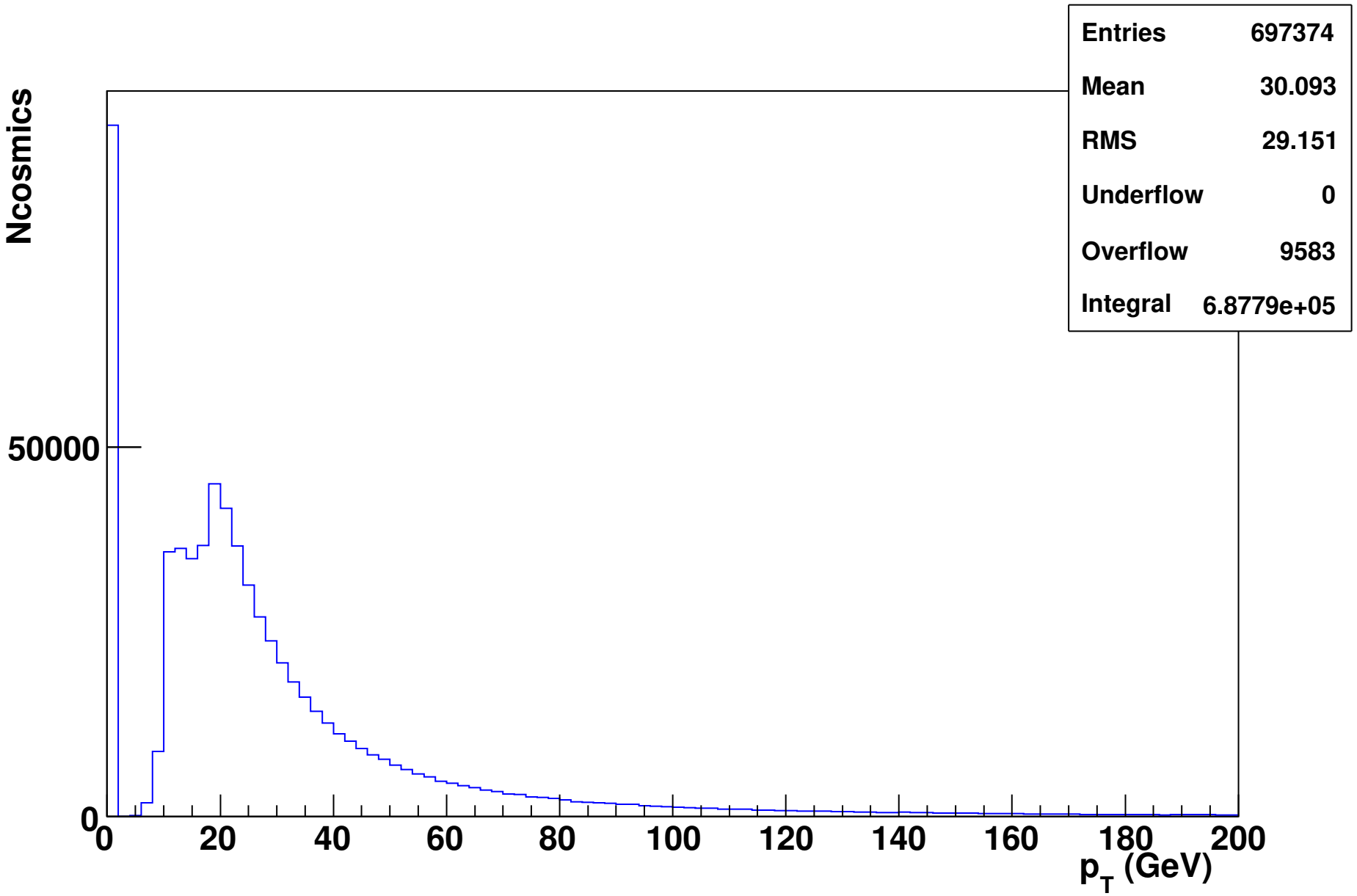

Entries 697374
Mean -0.014982
RMS 1.5007
Underflow 93657
Overflow 21
Integral 6.037e+05
number of cosmics
20000
10000
0
-6
-4
-2
0
2
4
6
d0 (cm)

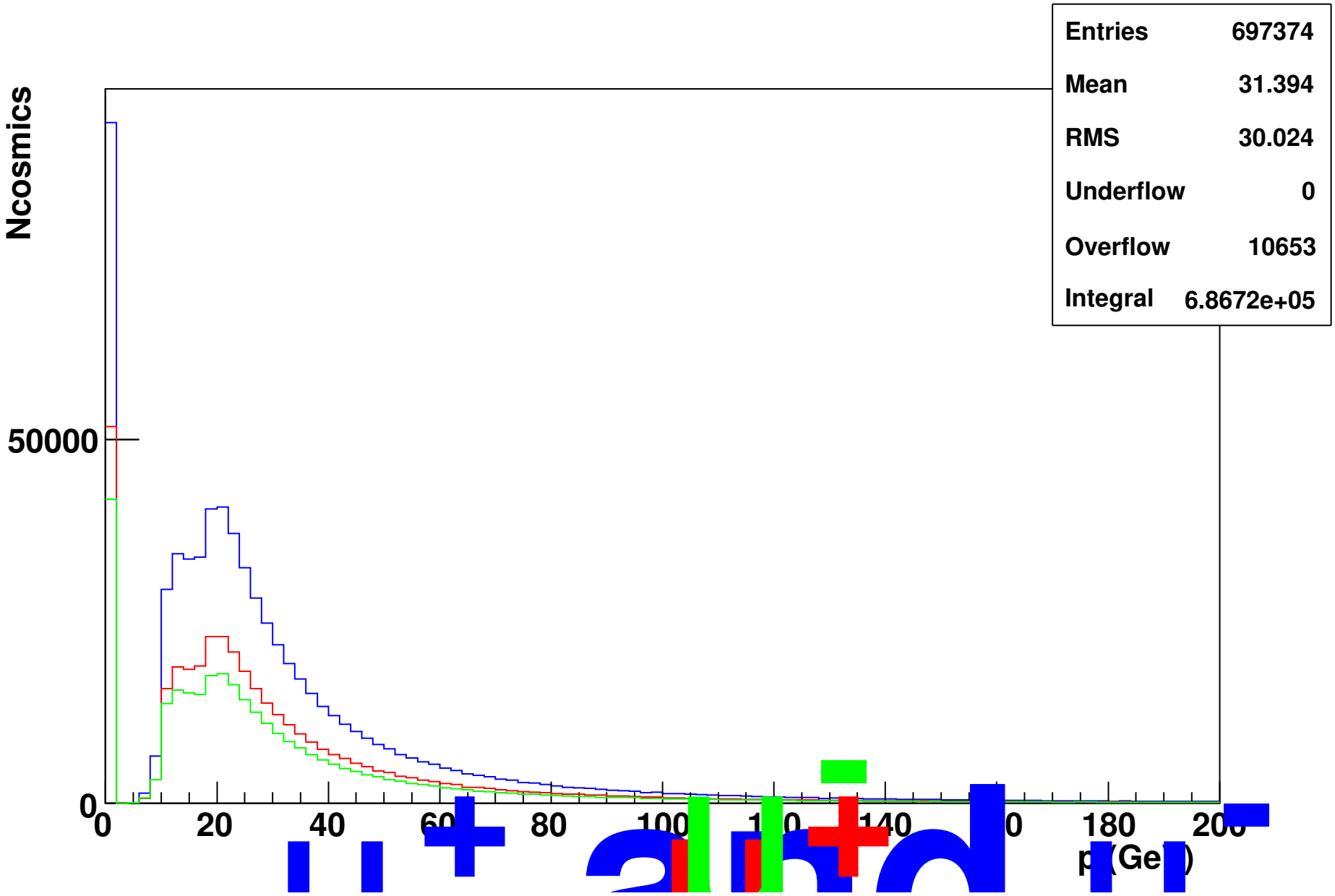

Entries 697374
Mean 1.5241
RMS 9.6987
Underflow 94194
Overflow 275
Integral 6.029e+05
number of cosmics
40000
20000
0
-30
-20
-10
0
10
20
30
t0 (ns)

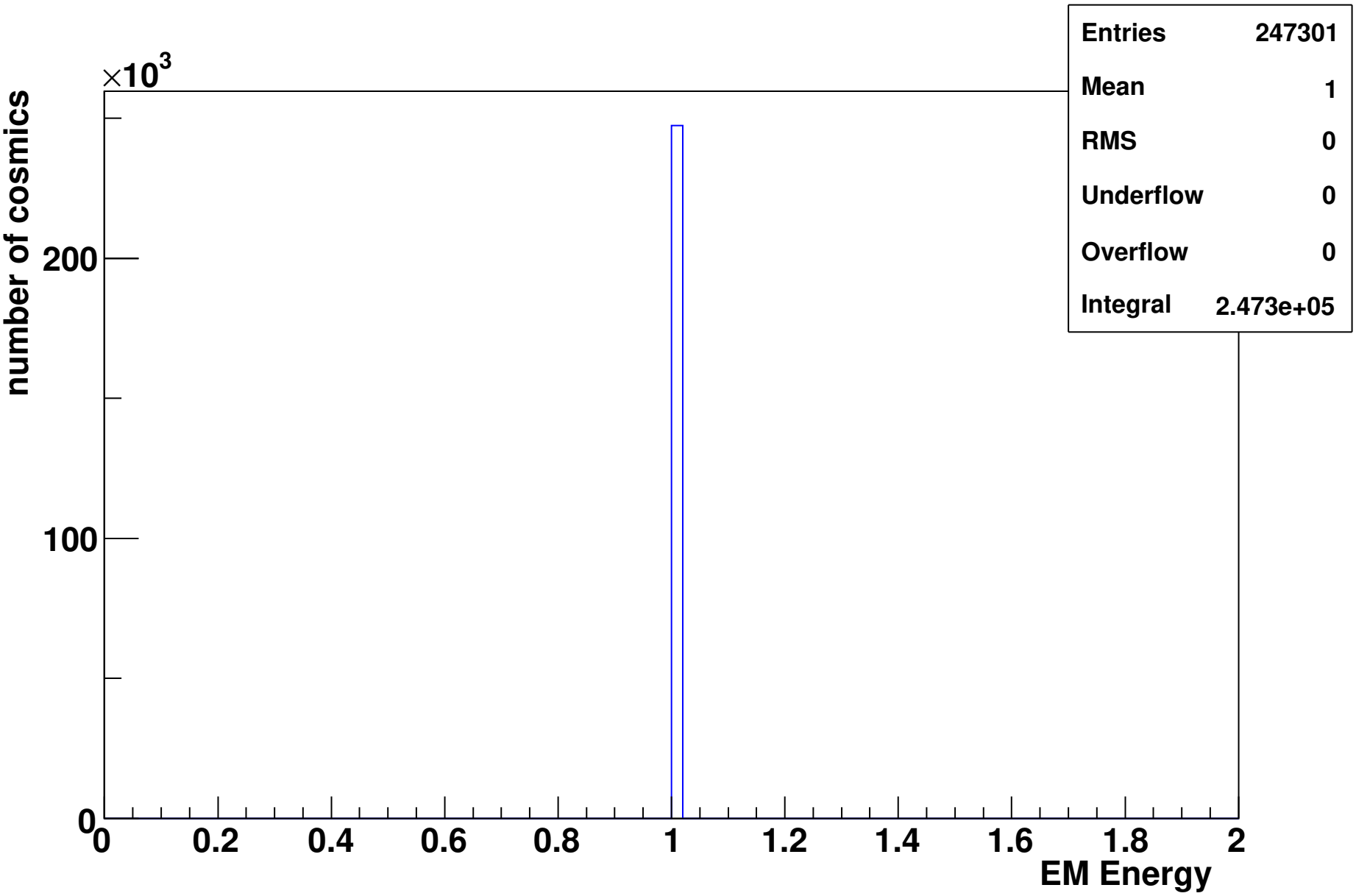

Entries 697374
Mean 0.0010937
RMS 0.32364
Underflow 96359
Overflow 2705
Integral 5.9831e+05
number of cosmics
40000
20000
0
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
cot θ

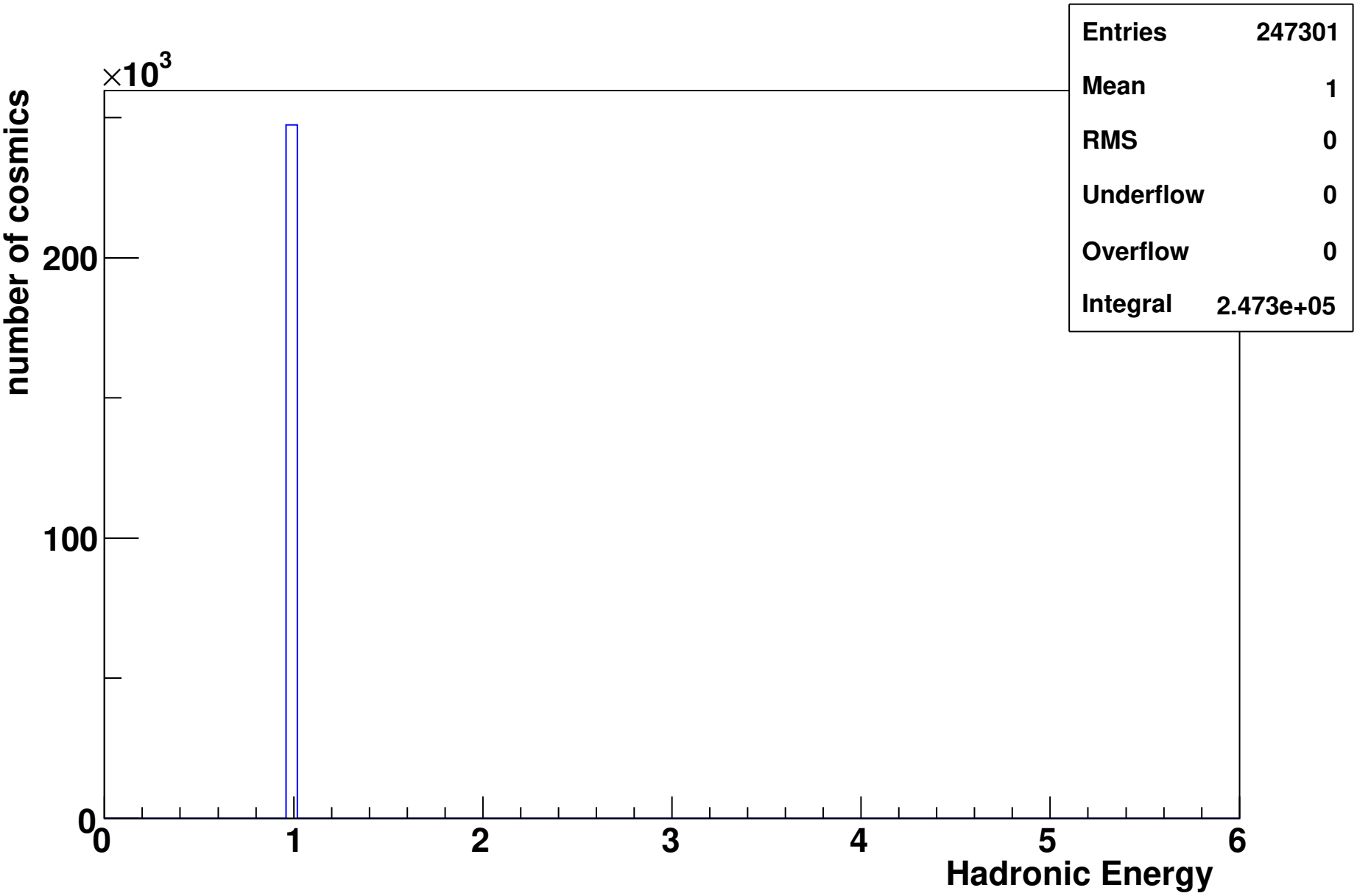

Entries 697374
Mean -1.4009
RMS 74.128
Underflow 93619
Overflow 0
Integral 6.0376e+05
number of cosmics
10000
5000
0
-150
-100
-50
0
50
100
150
z_0 (cm)

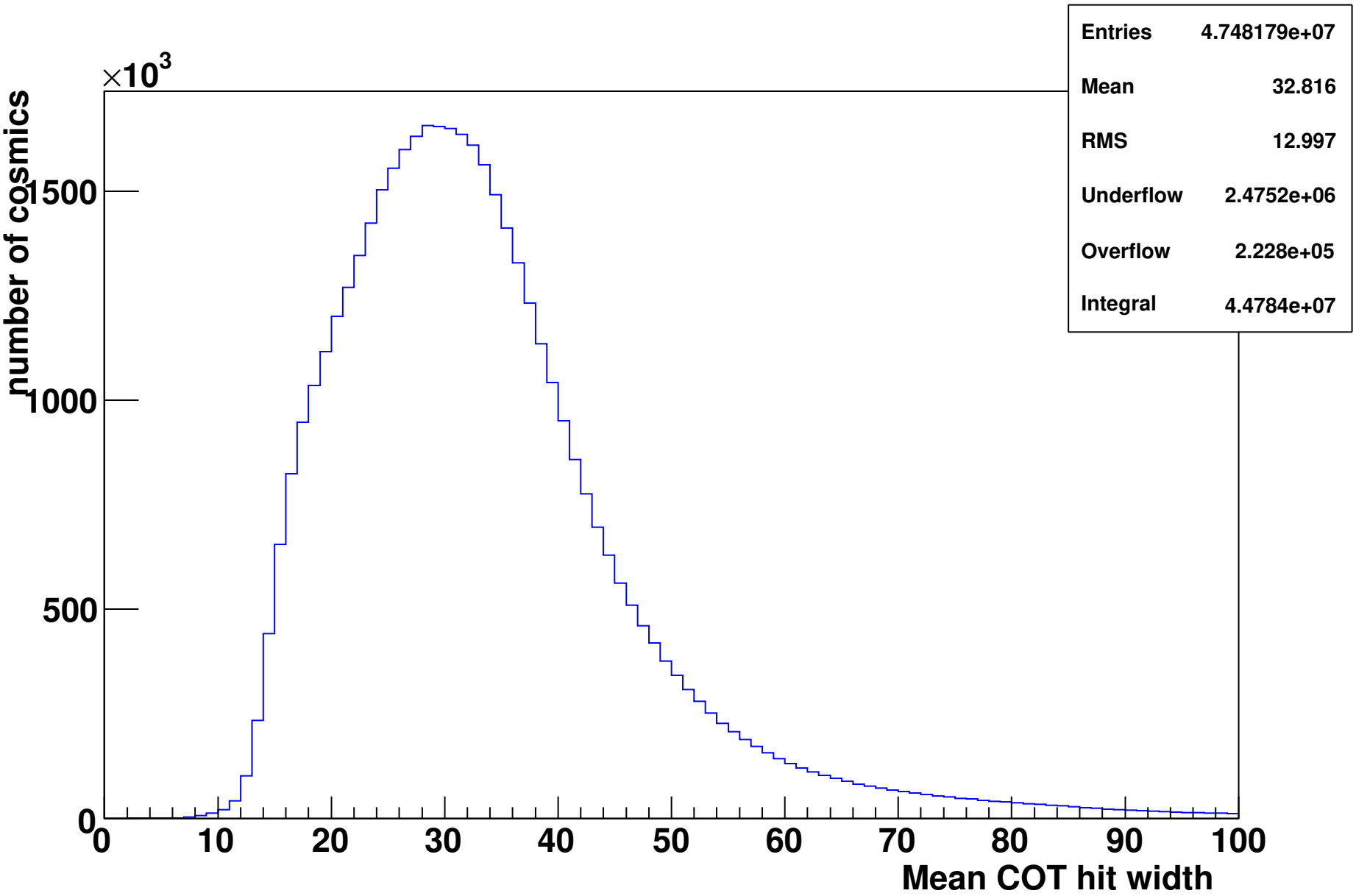

Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
Integral 0
number of tracks
1
0.5
0
0
20
40
60
80
100
120
140
160
180
200
p (GeV)

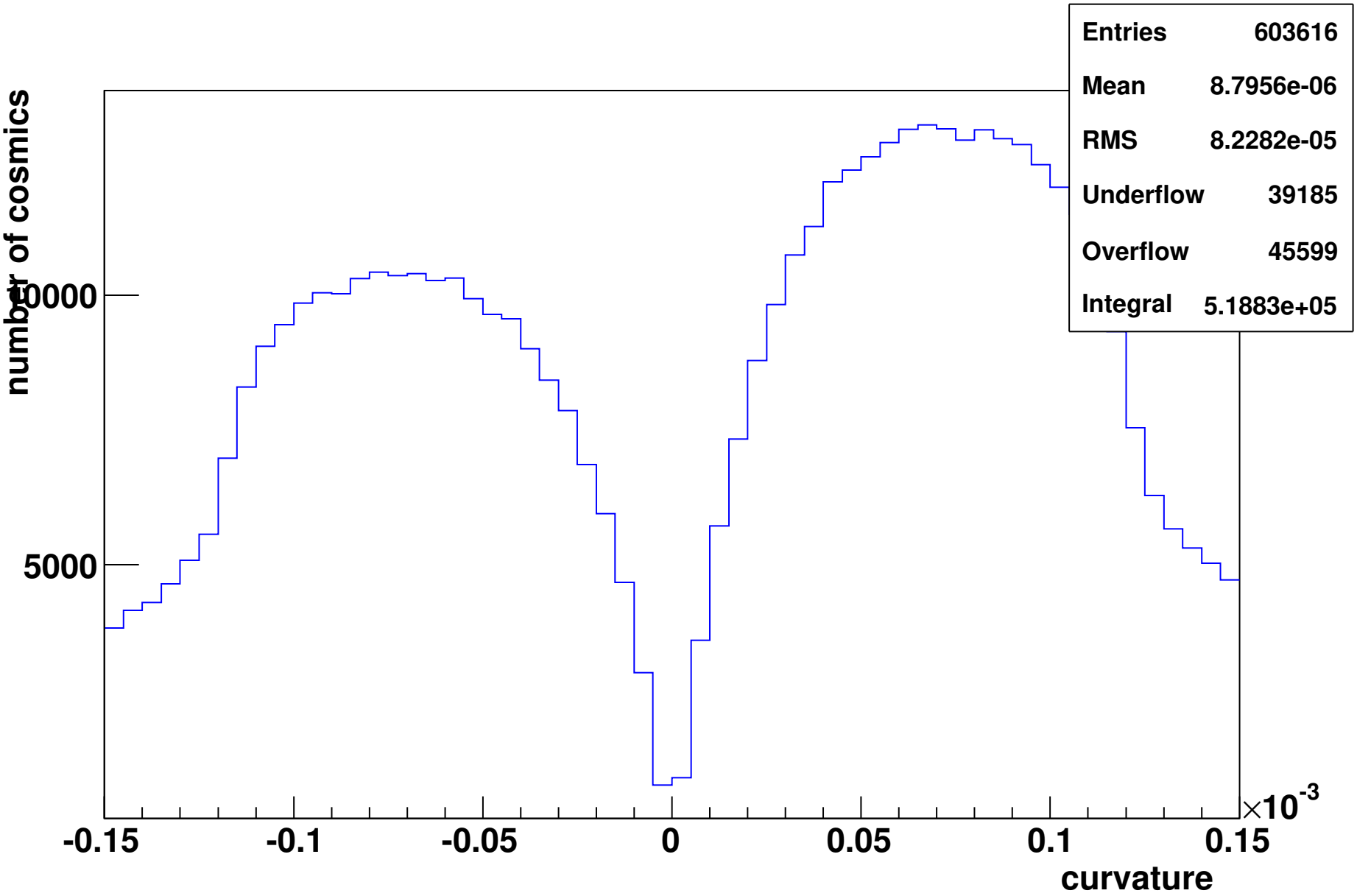

Entries 697374
Mean 30.093
RMS 29.151
Underflow 0
Overflow 9583
Integral 6.8779e+05
Ncosmics
50000
0
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV)

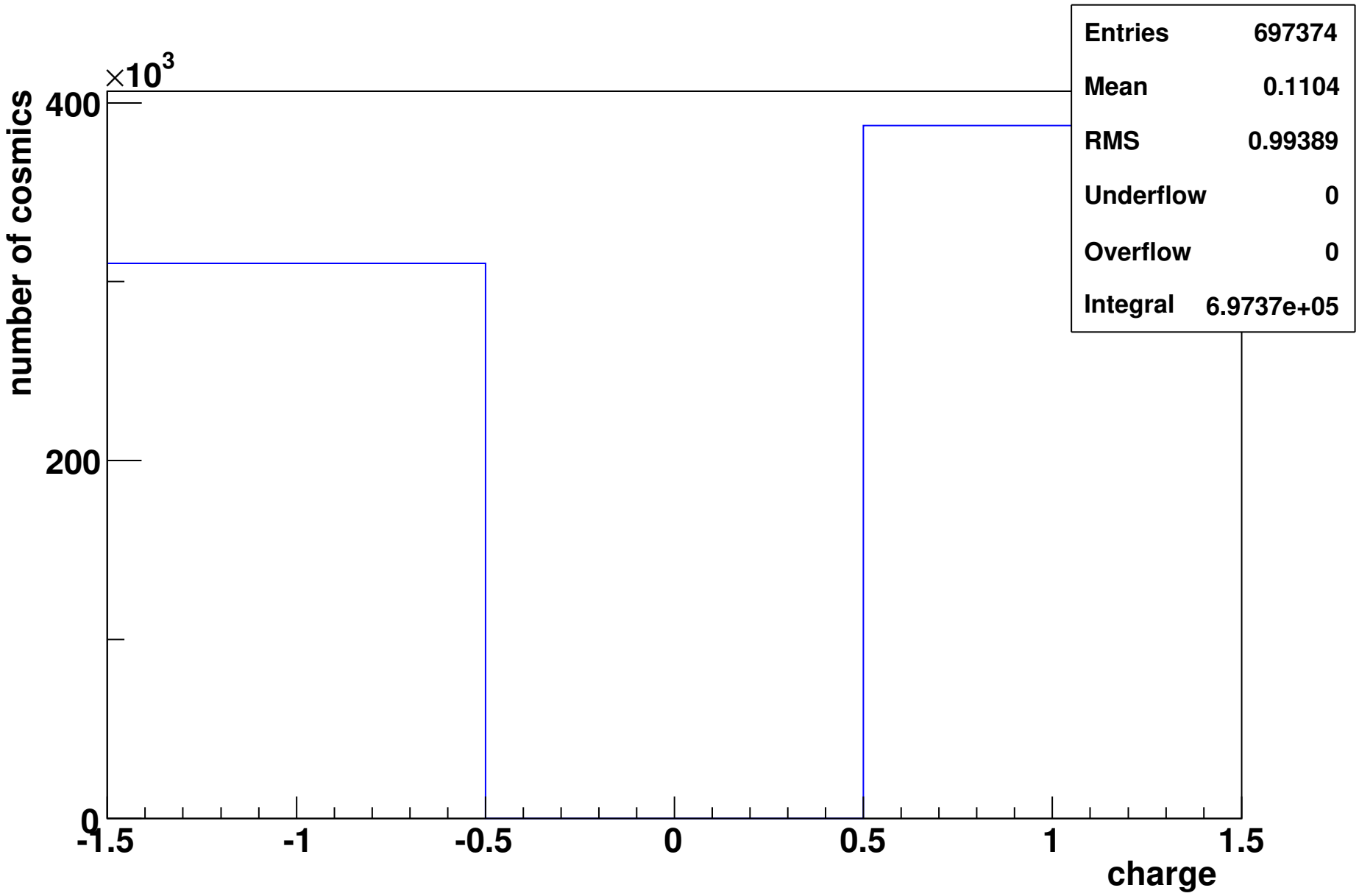

Entries 697374
Mean 31.394
RMS 30.024
Underflow 0
Overflow 10653
Integral 6.8672e+05
Ncosmics
50000
0
0
20
40
80
180
p (GeV)

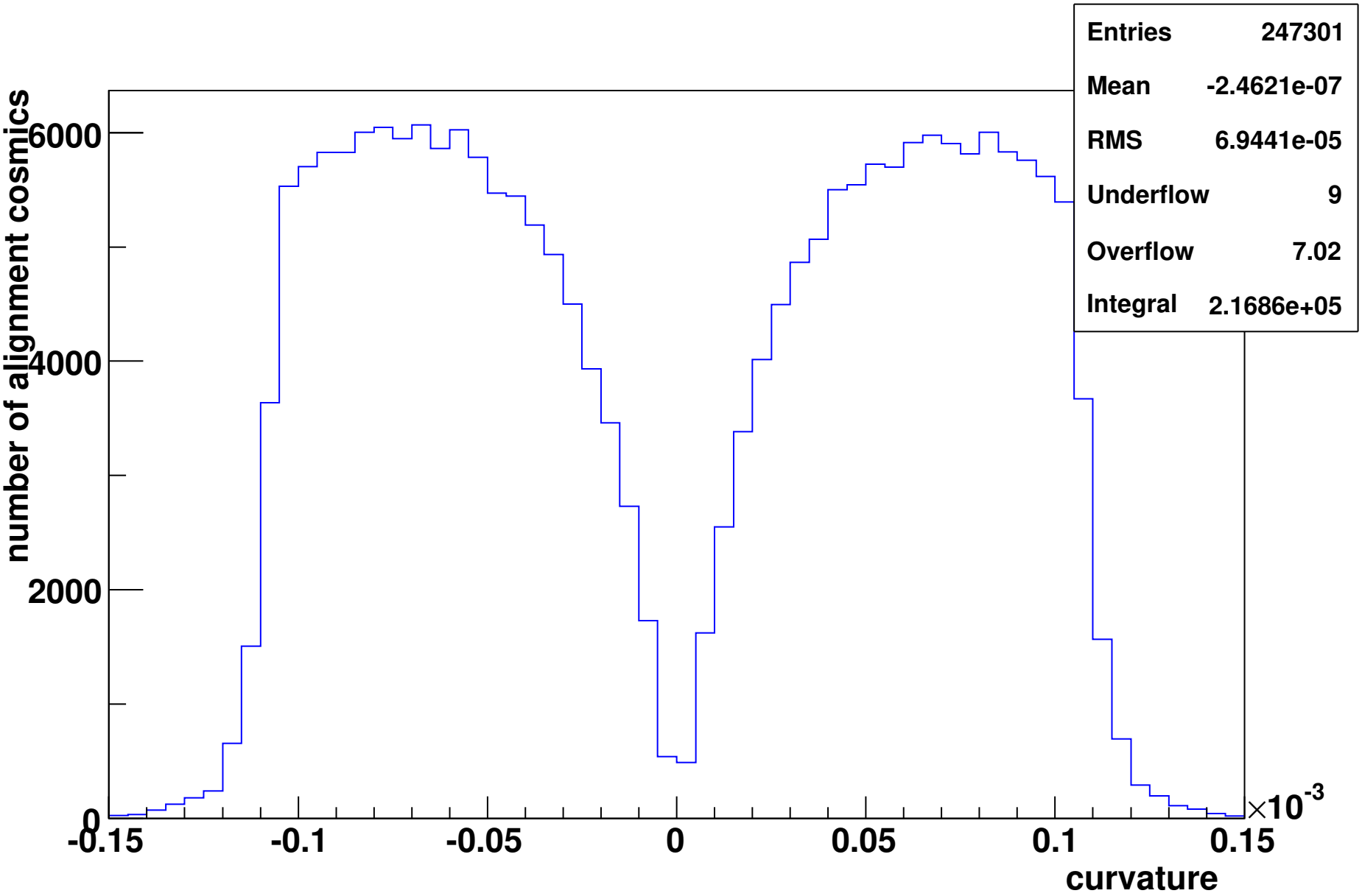

Entries 247301
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.473e+05
×10^3
number of cosmics
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
EM Energy

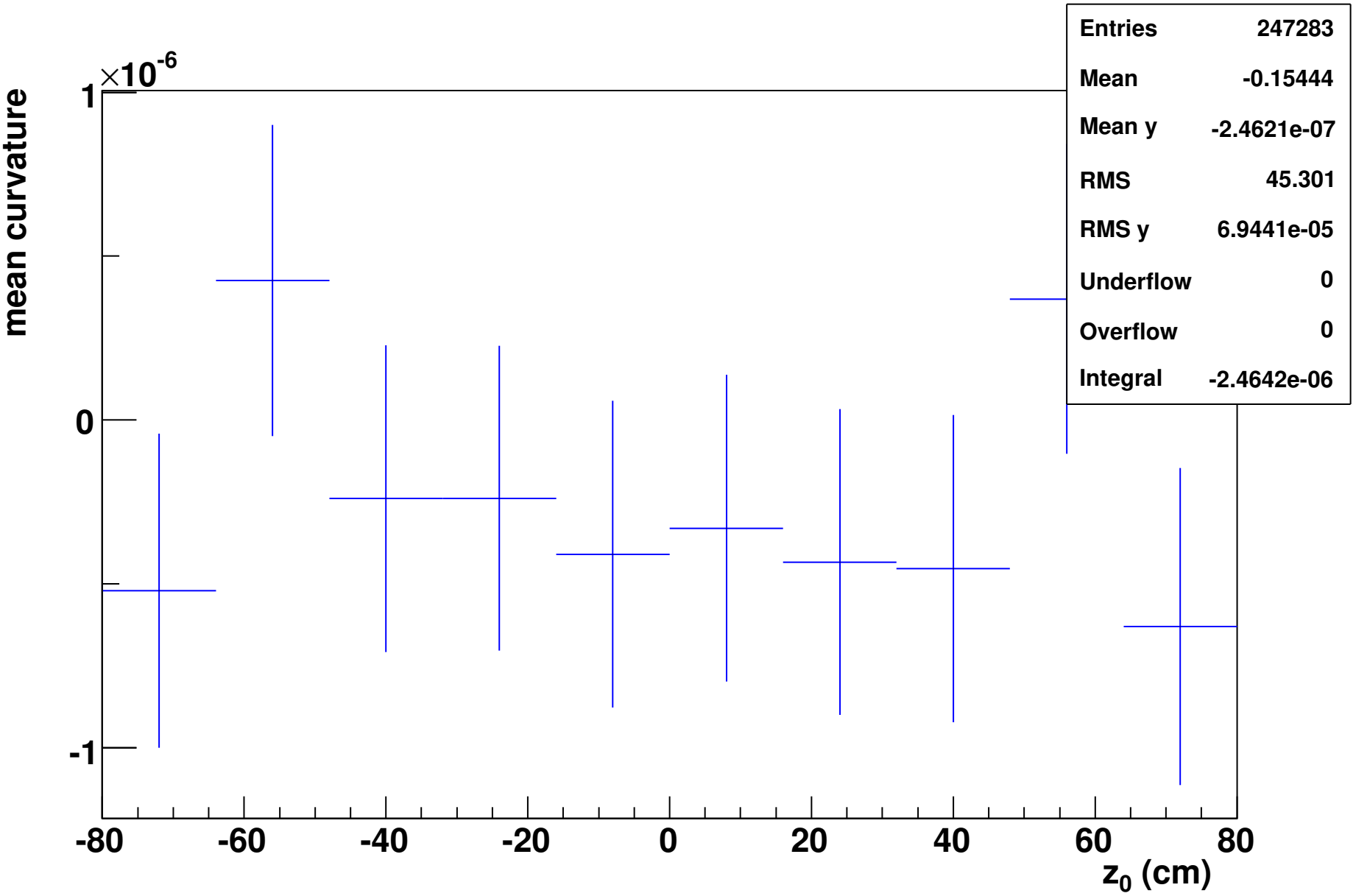

Entries 247301
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.473e+05
×10^3
number of cosmics
200
100
0
0
1
2
3
4
5
6
Hadronic Energy

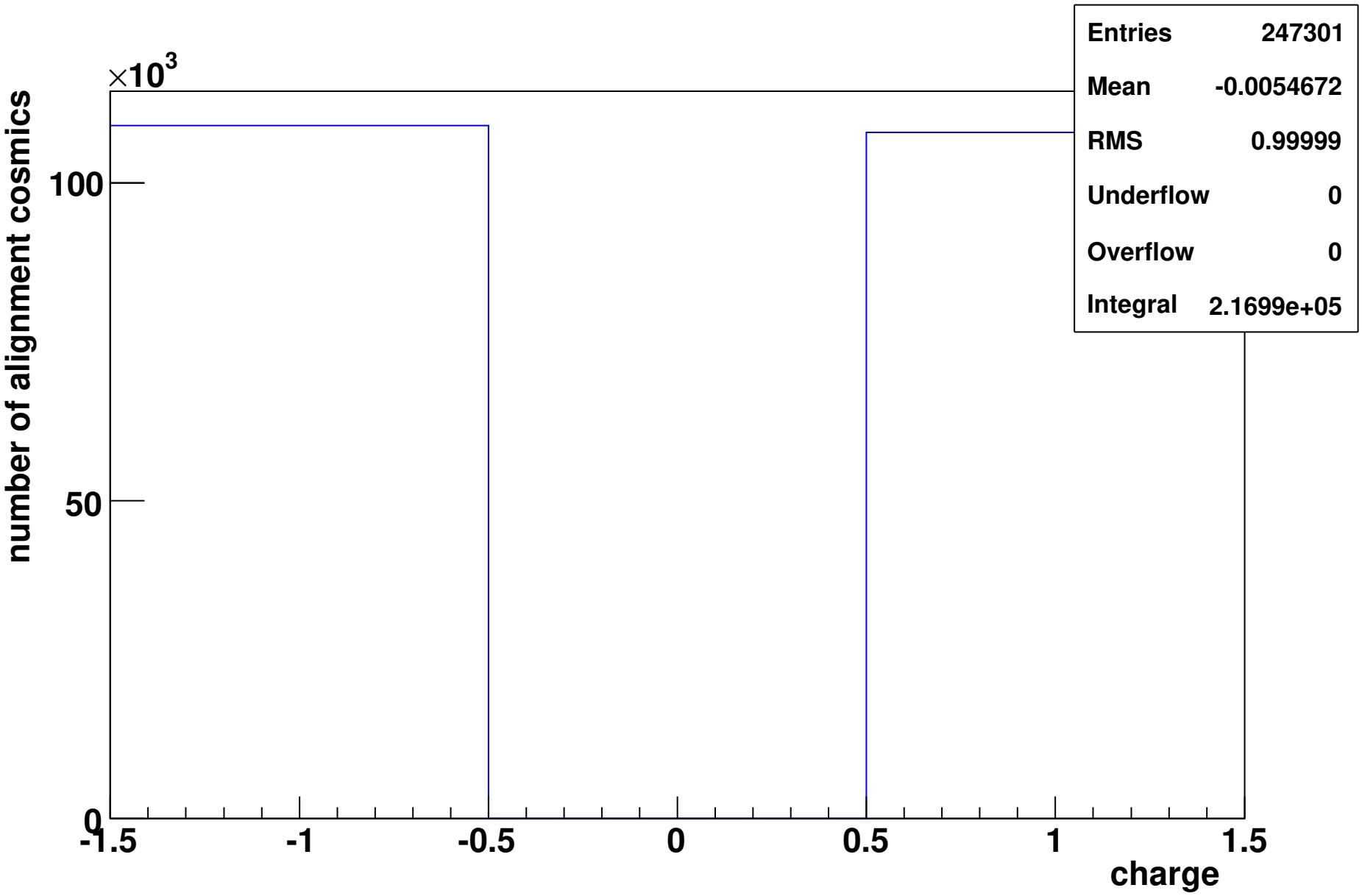

Entries 4.748179e+07
Mean 32.816
RMS 12.997
Underflow 2.4752e+06
Overflow 2.228e+05
Integral 4.4784e+07
×10^3
number of cosmics
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
Mean COT hit width

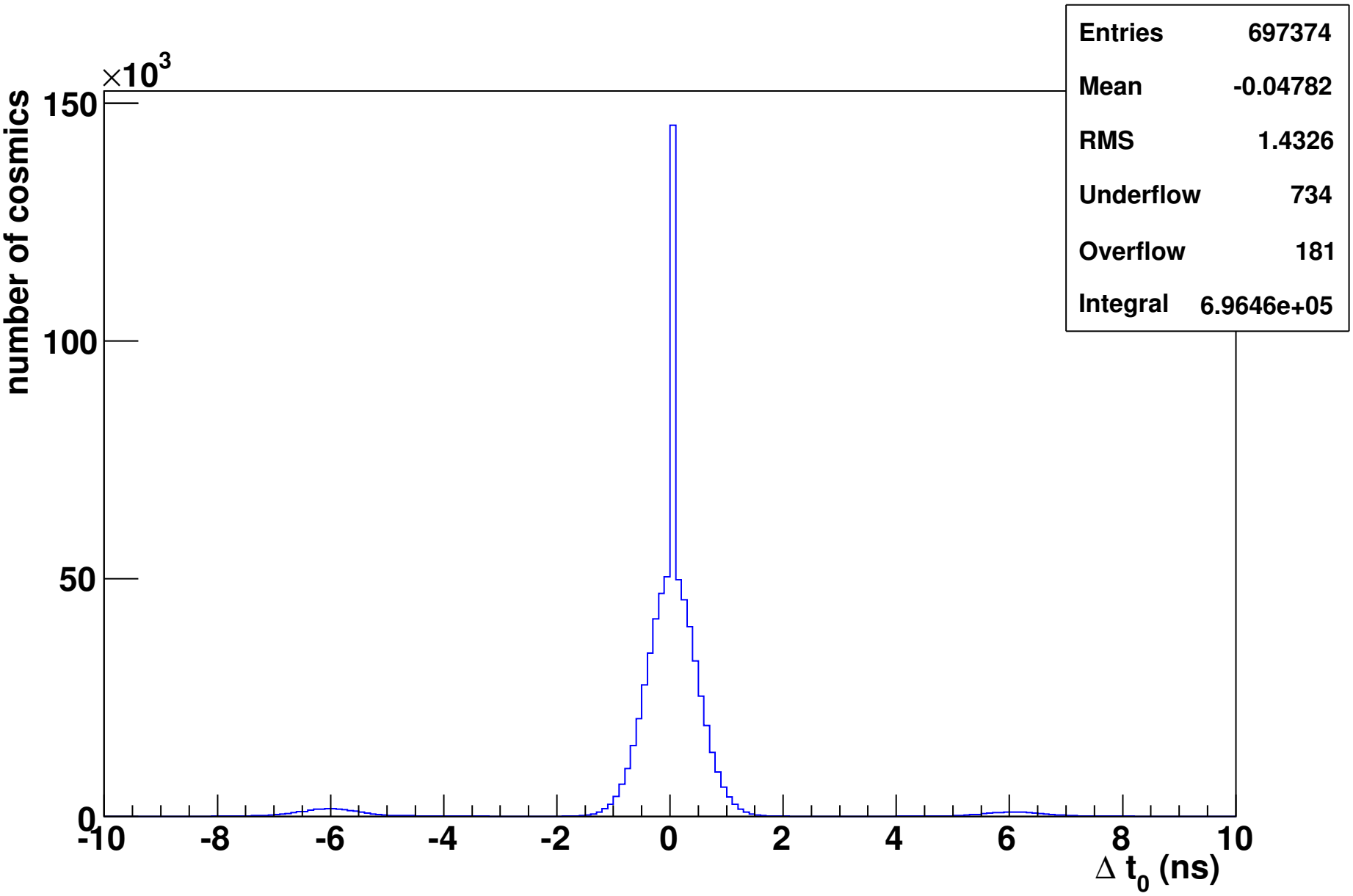

Entries 603616
Mean 8.7956e-06
RMS 8.2282e-05
Underflow 39185
Overflow 45599
Integral 5.1883e+05
number of cosmics
10000
5000
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature

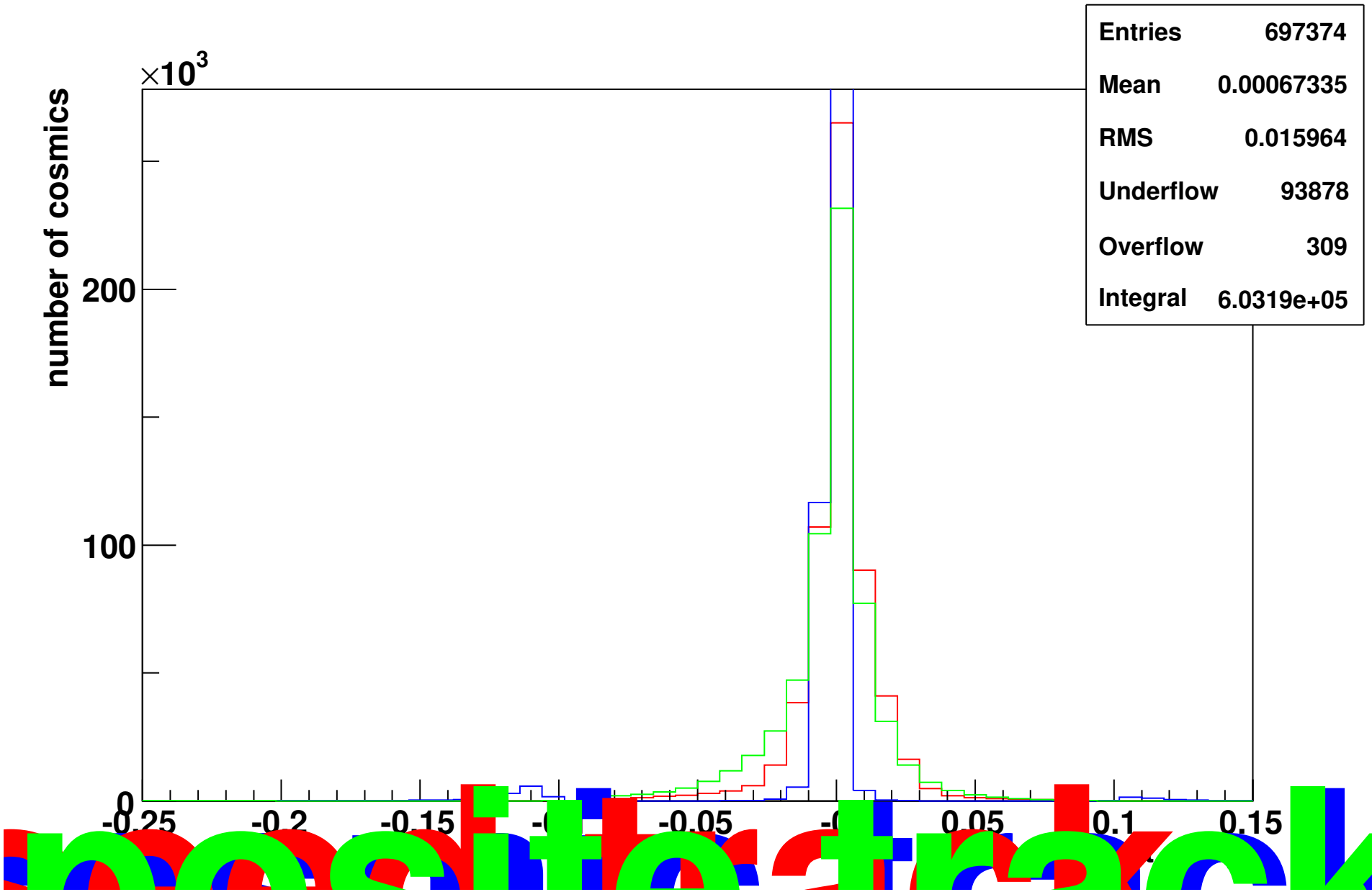

Entries 697374
Mean 0.1104
RMS 0.99389
Underflow 0
Overflow 0
Integral 6.9737e+05
×10^3
number of cosmics
400
200
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

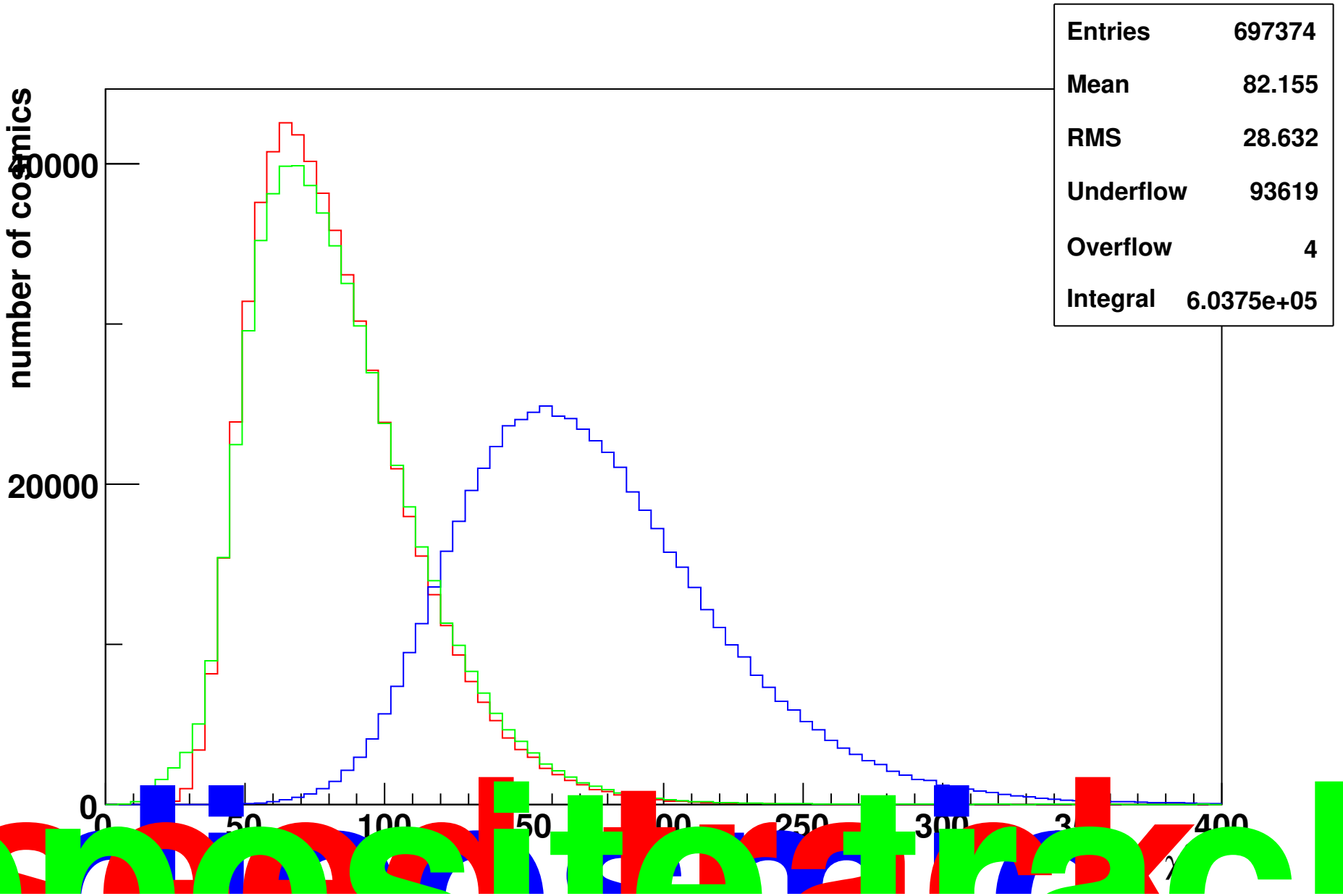

Entries 247301
Mean -2.4621e-07
RMS 6.9441e-05
Underflow 9
Overflow 7.02
Integral 2.1686e+05
number of alignment cosmics
6000
4000
2000
0
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature

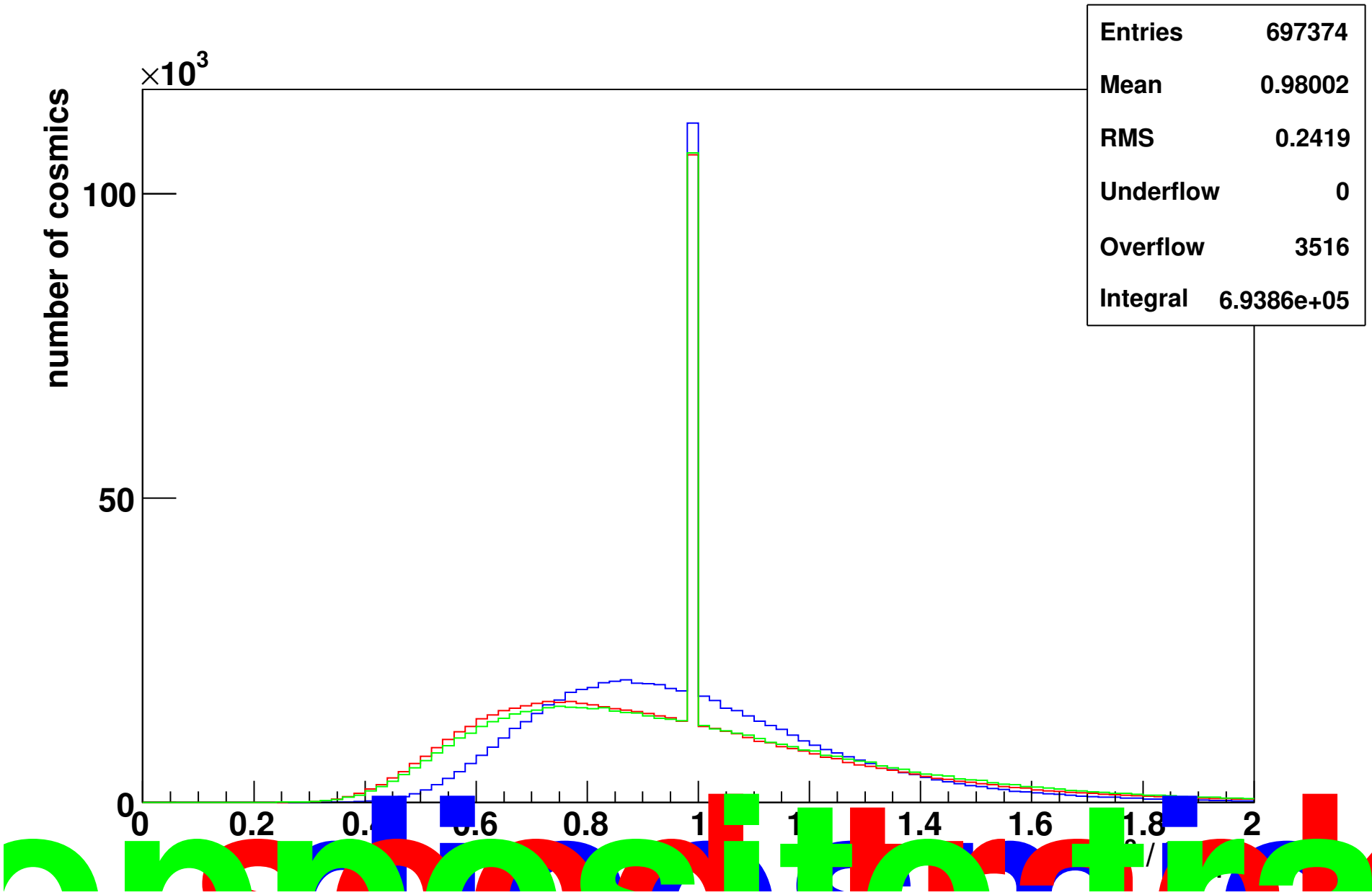

mean curvature
×10-6
1
0
-1
-80
-60
-40
-20
0
20
40
60
80
z0 (cm)
Entries 247283
Mean -0.15444
Mean y -2.4621e-07
RMS 45.301
RMS y 6.9441e-05
Underflow 0
Overflow 0
Integral -2.4642e-06

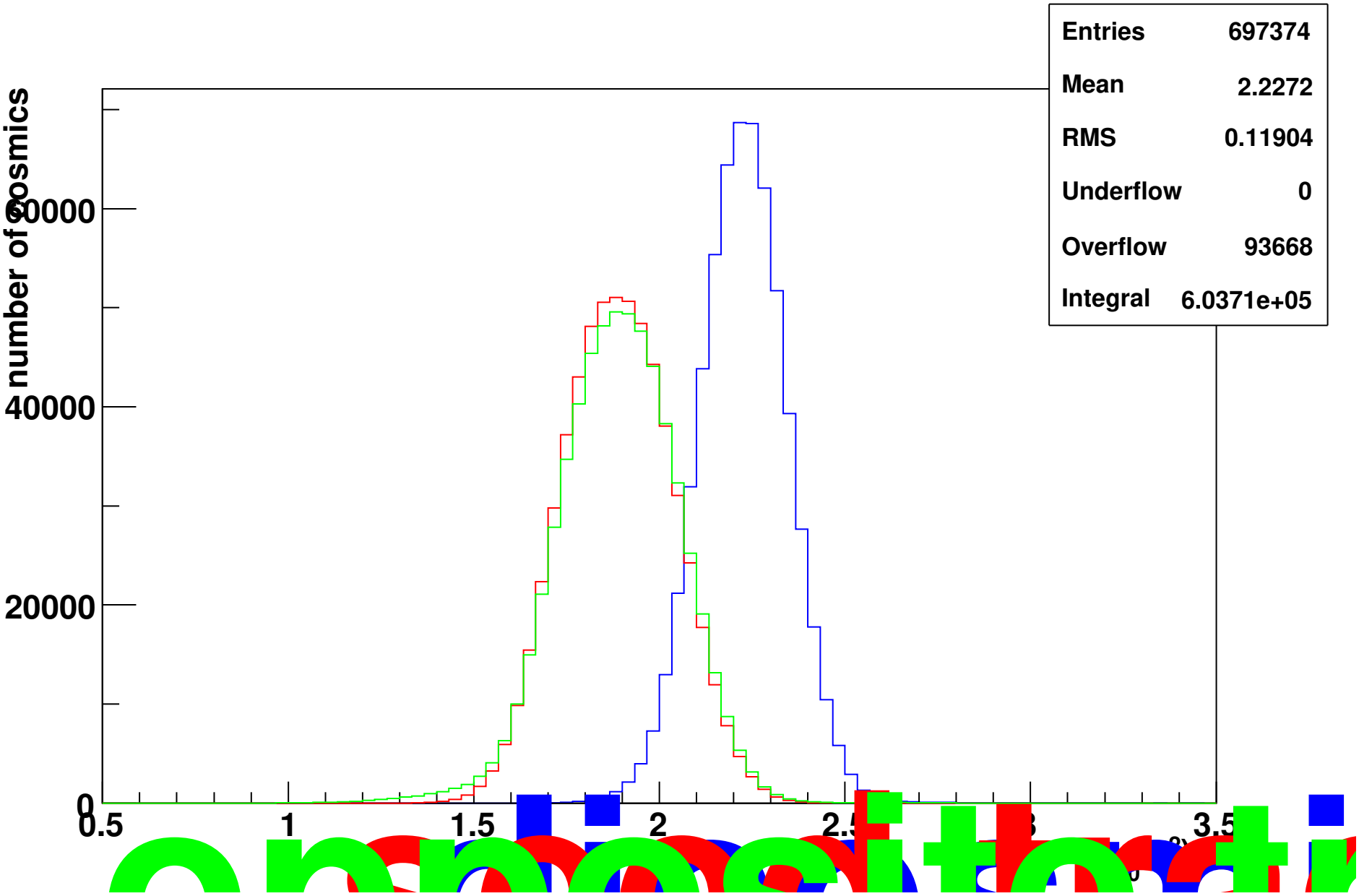

Entries 247301
Mean -0.0054672
RMS 0.99999
Underflow 0
Overflow 0
Integral 2.1699e+05
×10^3
number of alignment cosmics
100
50
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge


Entries 697374
Mean -0.04782
RMS 1.4326
Underflow 734
Overflow 181
Integral 6.9646e+05
×10^3
number of cosmics
150
100
50
0
-10
-8
-6
-4
-2
0
2
4
6
8
10
Δ t0 (ns)


Entries 697374
Mean 0.00067335
RMS 0.015964
Underflow 93878
Overflow 309
Integral 6.0319e+05
number of cosmics
×10^3
200
100
0
-0.25
-0.2
-0.15
-0.05
0.05
0.1
0.15


Entries 697374
Mean 82.155
RMS 28.632
Underflow 93619
Overflow 4
Integral 6.0375e+05
number of cosmics
40000
20000
0
0
50
100
250
300
400


Entries 697374
Mean 0.98002
RMS 0.2419
Underflow 0
Overflow 3516
Integral 6.9386e+05
number of cosmics
×10^3
100
50
0
0
0.2
0.6
0.8
1.4
1.6
1.8
2


Entries 697374
Mean 2.2272
RMS 0.11904
Underflow 0
Overflow 93668
Integral 6.0371e+05
number of cosmics
60000
40000
20000
0
0.5
1
1.5
2
2.5
3.5

cosmic

cosmic

1g pair

1g pair

Entries 697374

number of ditracks

10^5

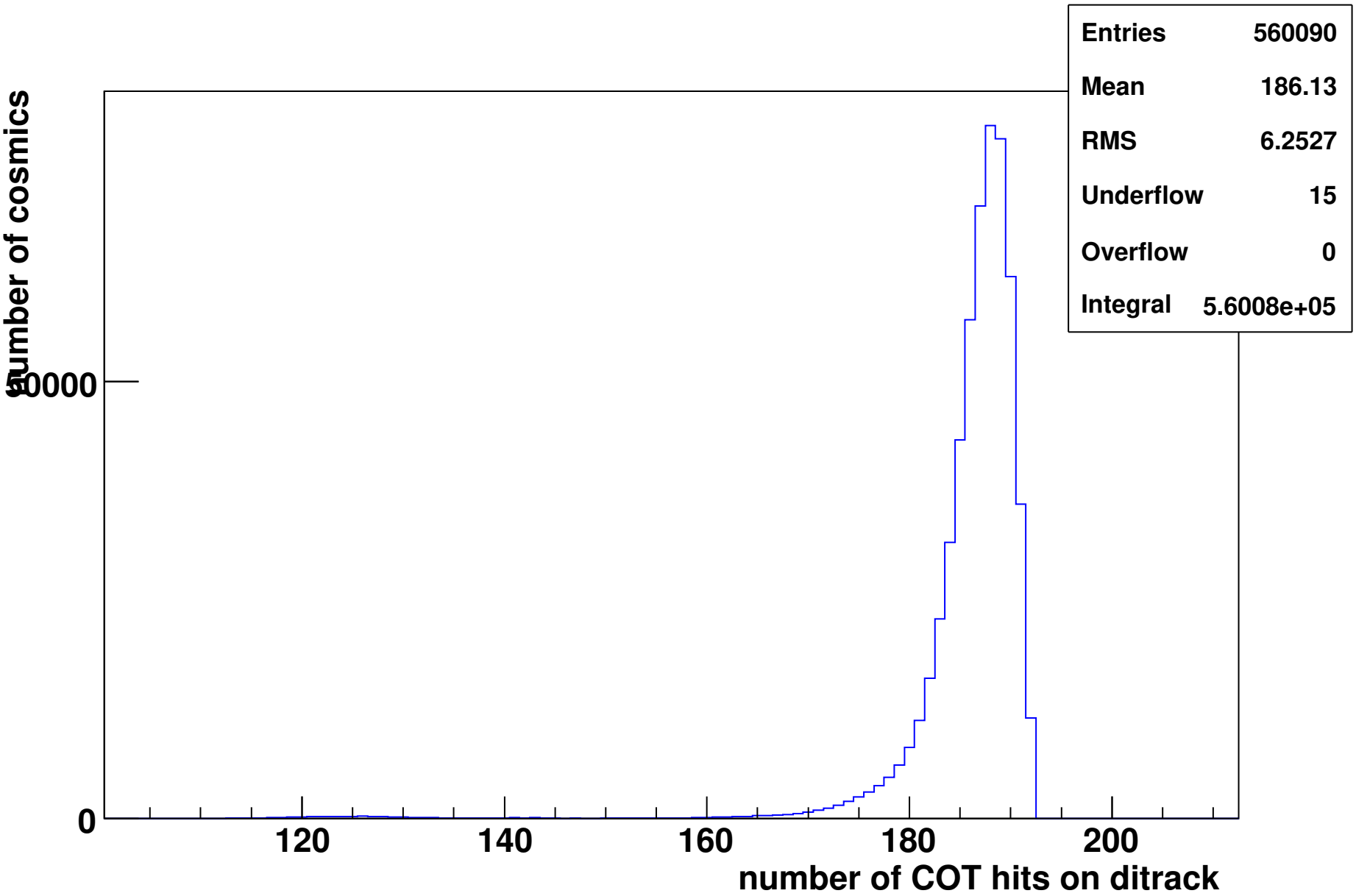
10^4

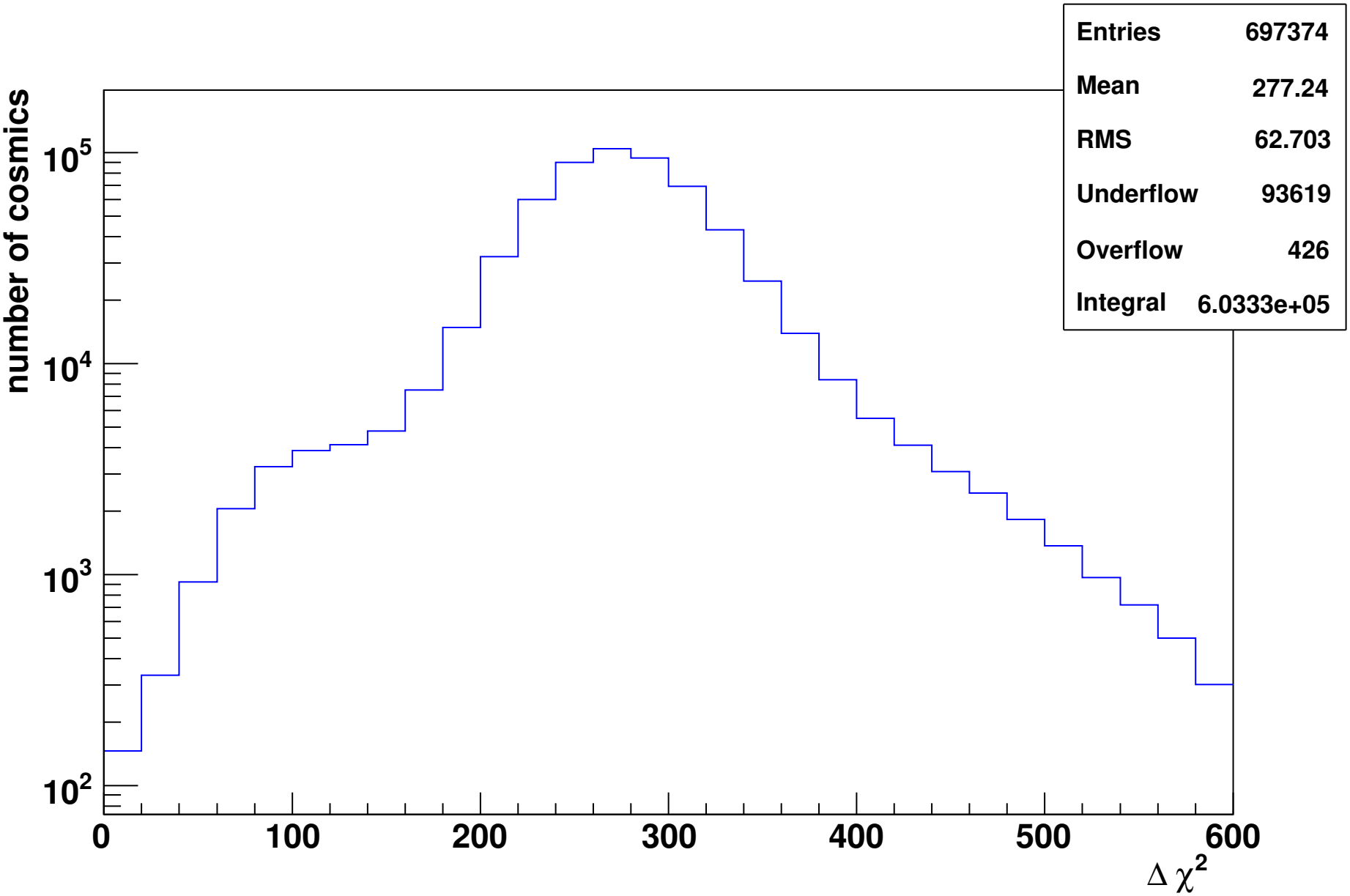
10^3

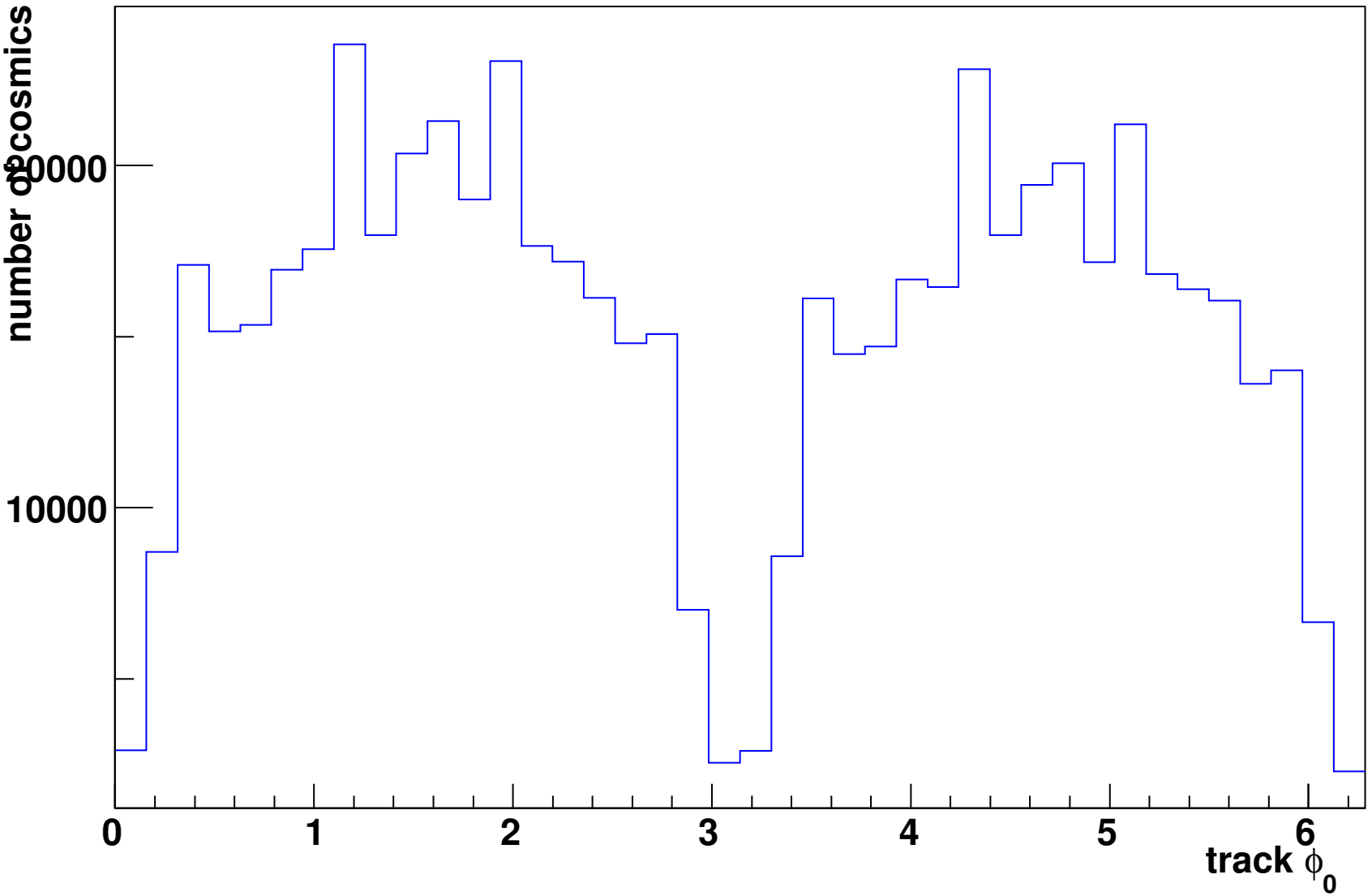
10^2

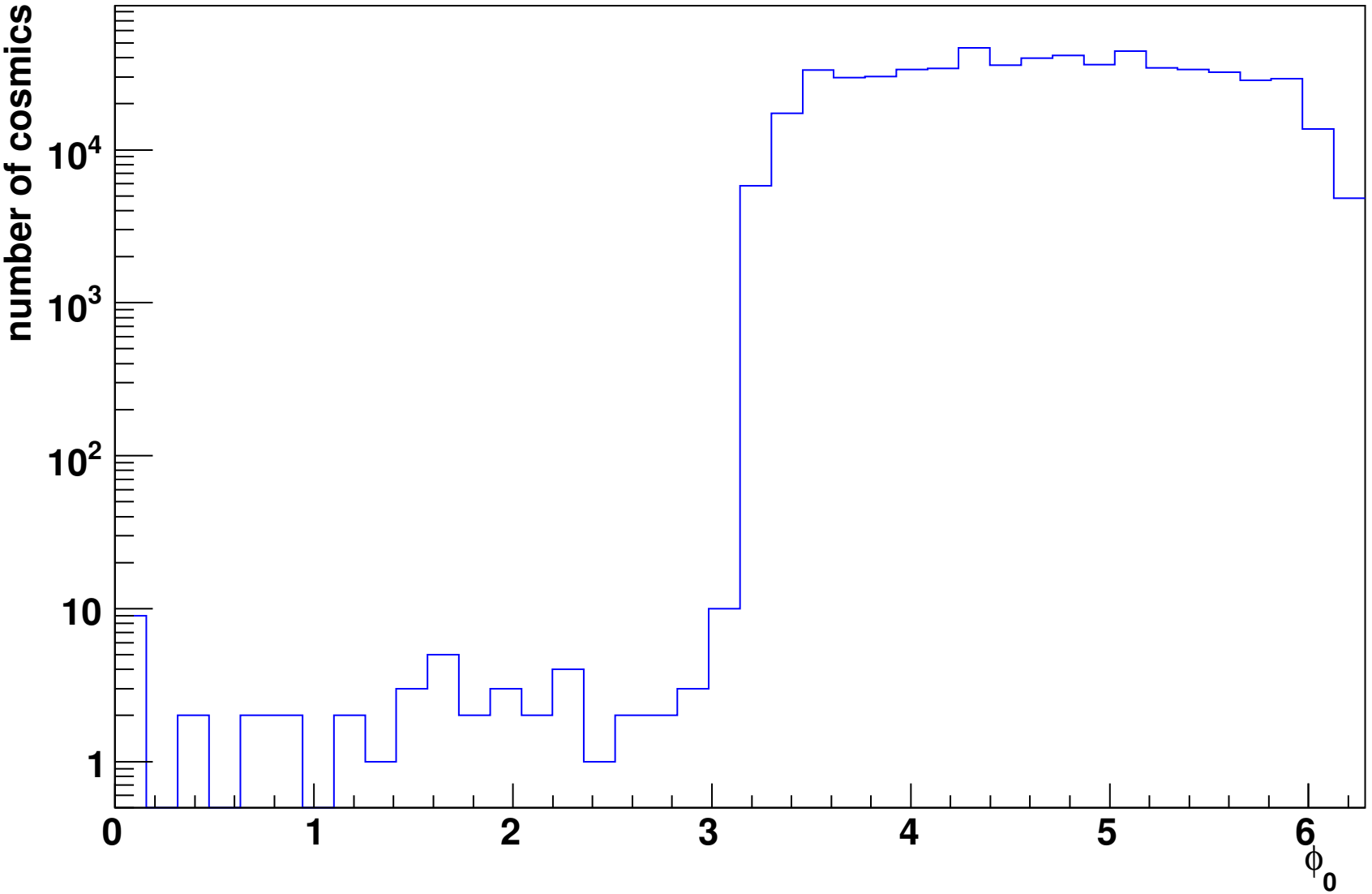
-0.5 0 0.5 1 1.5 2 3 4 4.5

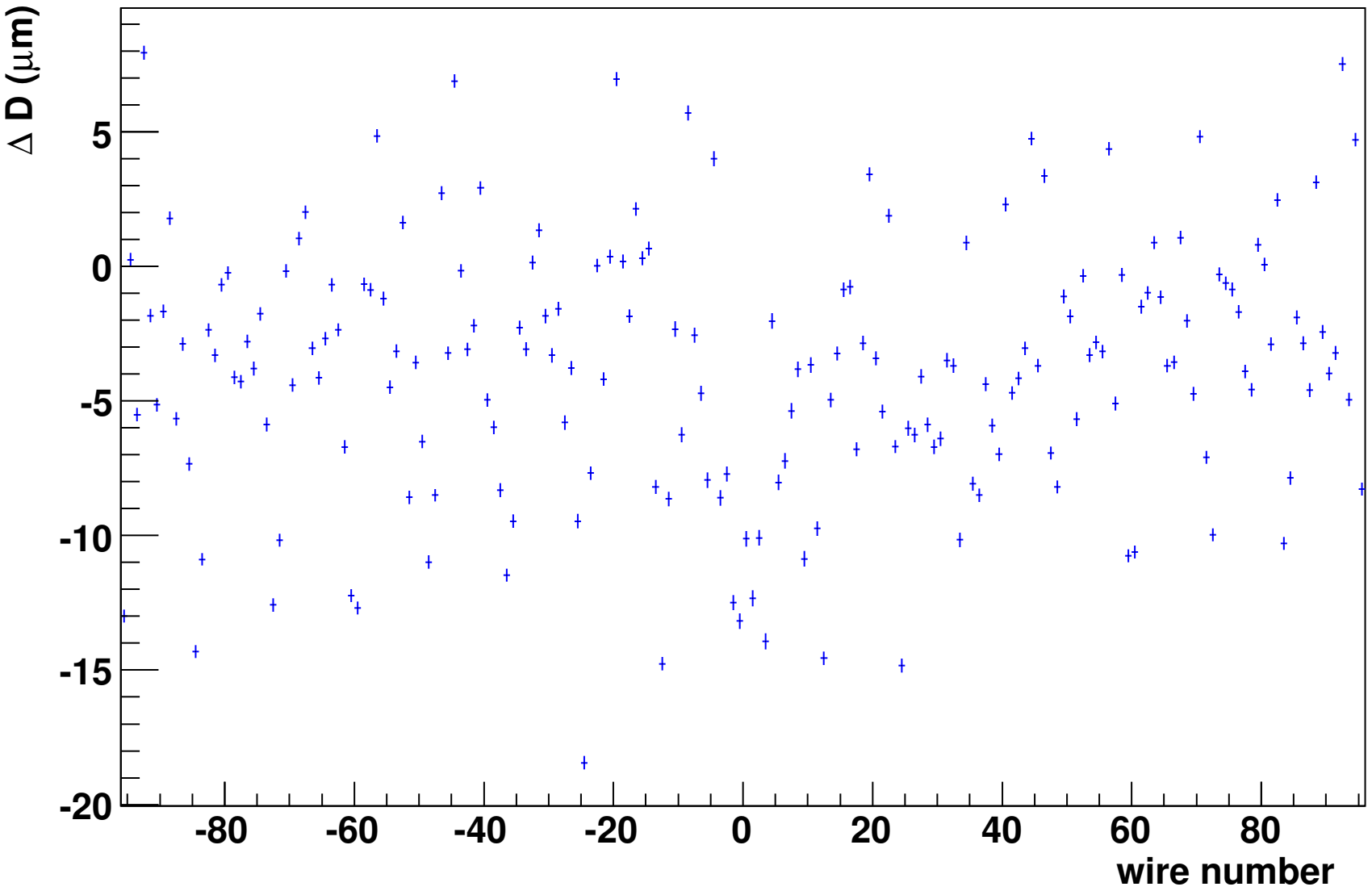
ditrack type

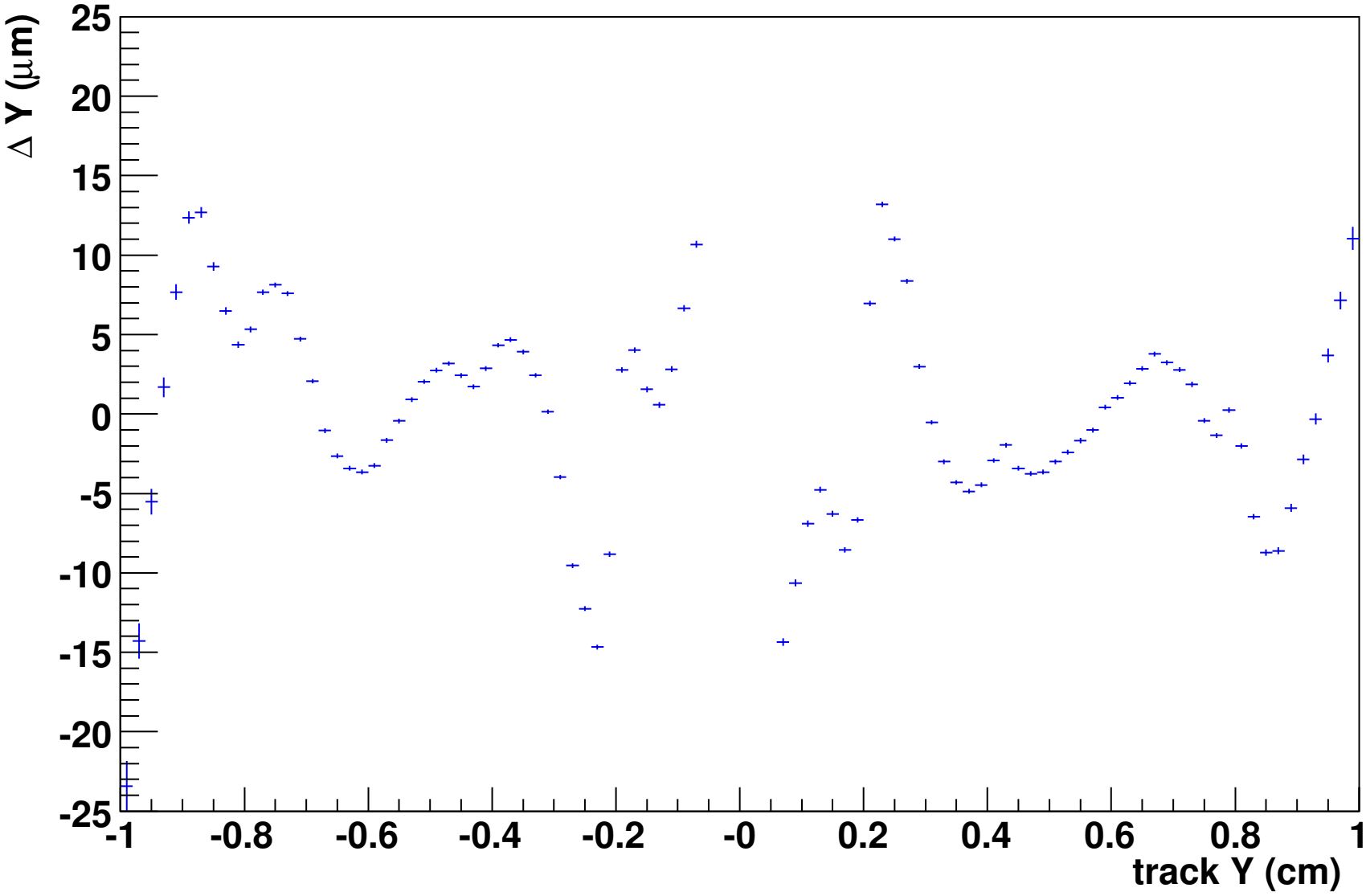

Entries 560090
Mean 186.13
RMS 6.2527
Underflow 15
Overflow 0
Integral 5.6008e+05
number of cosmics
0
10000
120
140
160
180
200
number of COT hits on ditrack

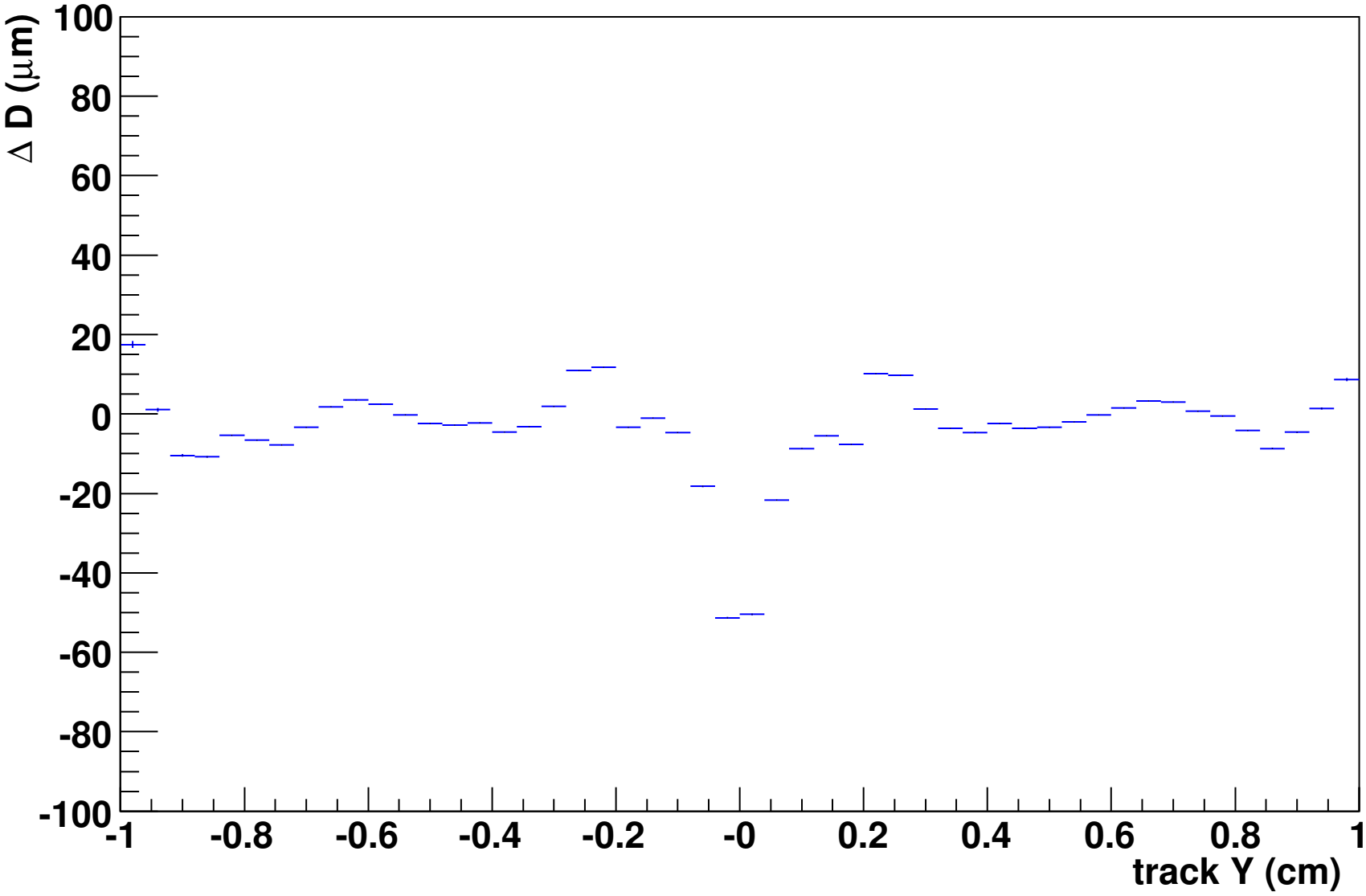

Entries 697374
Mean 277.24
RMS 62.703
Underflow 93619
Overflow 426
Integral 6.0333e+05
number of cosmics
10^5
10^4
10^3
10^2
0
100
200
300
400
500
600
$\Delta\ \chi^2$

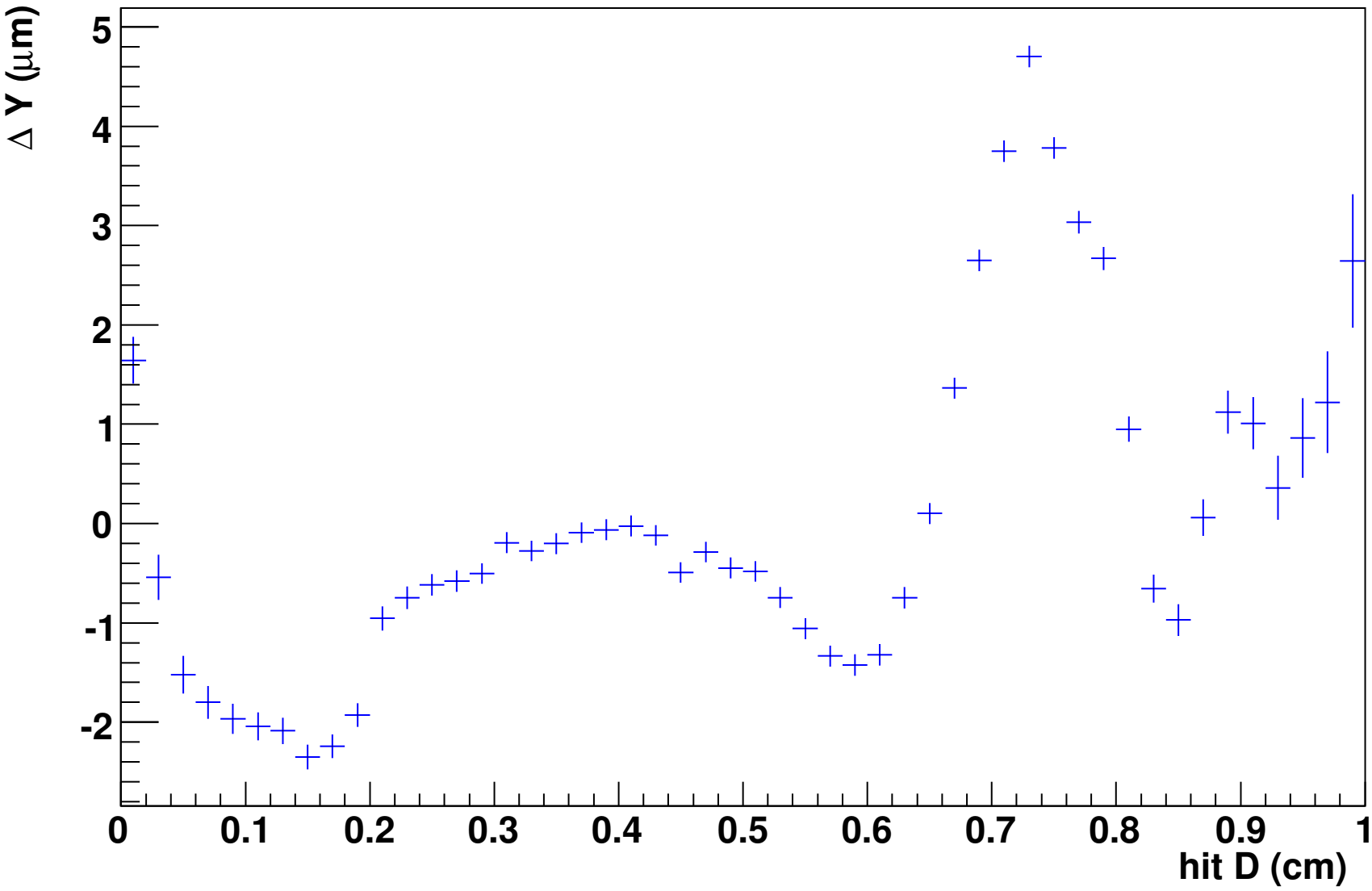

number of cosmics
20000
10000
0
1
2
3
4
5
6
track ϕ_0

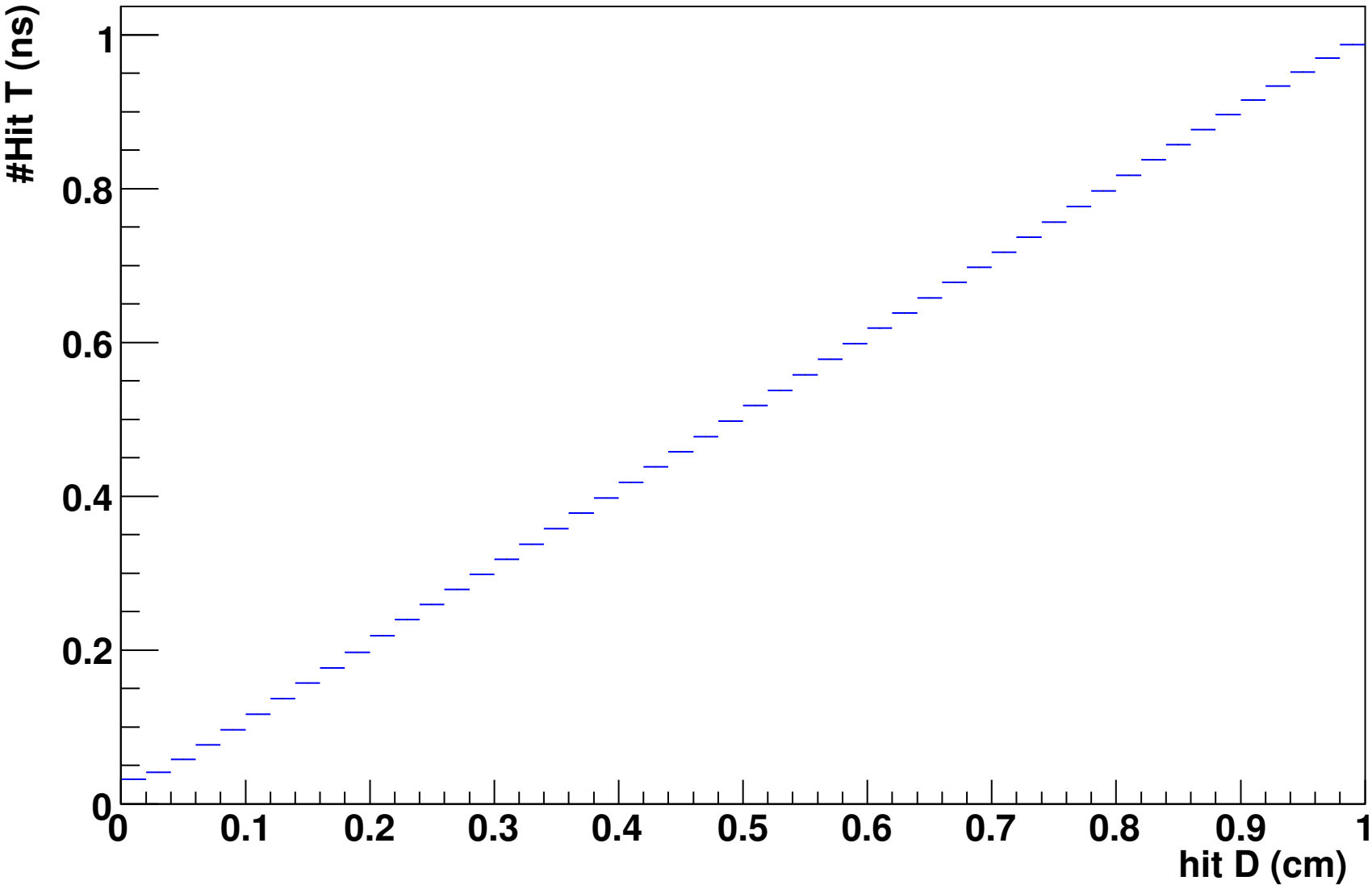

number of cosmics
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
ϕ_0

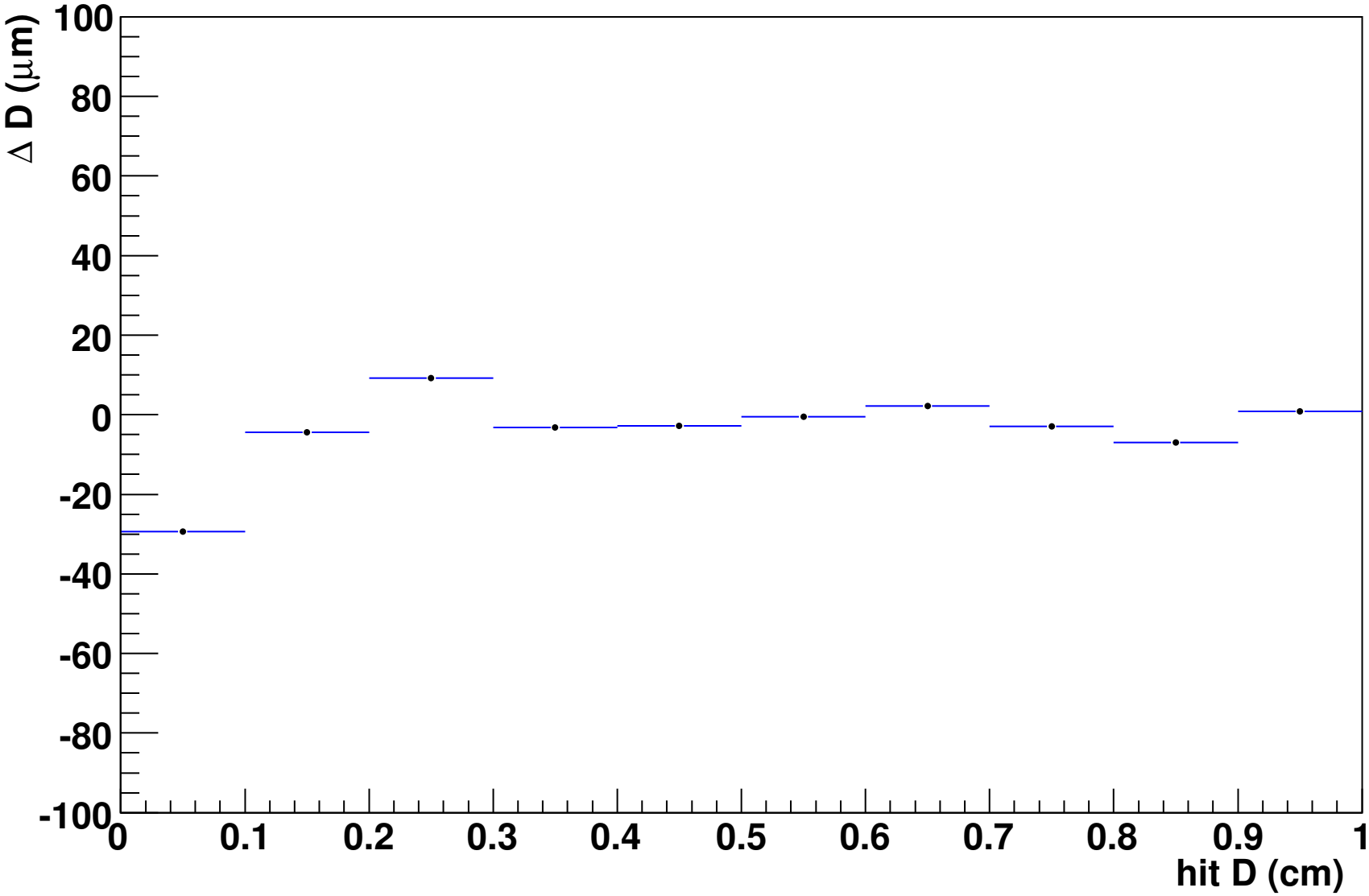

Δ D (μm)
5
0
-5
-10
-15
-20
-80
-60
-40
-20
0
20
40
60
80
wire number

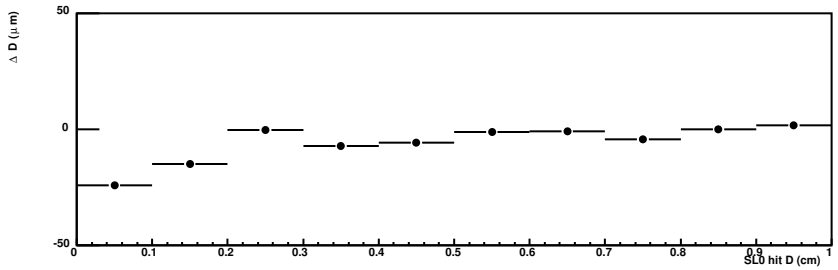

Δ Y (μm)
25
20
15
10
5
0
-5
-10
-15
-20
-25
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)

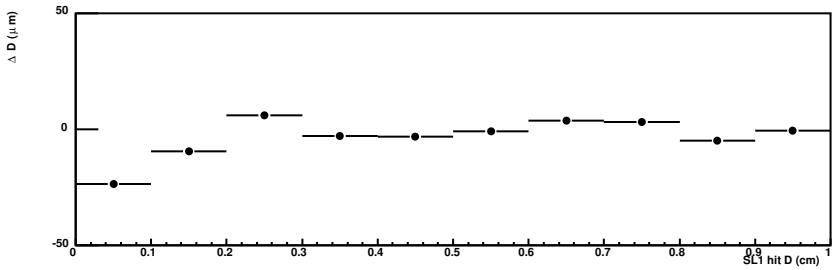

Δ D (μm)
100
80
60
40
20
0
-20
-40
-60
-80
-100
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)

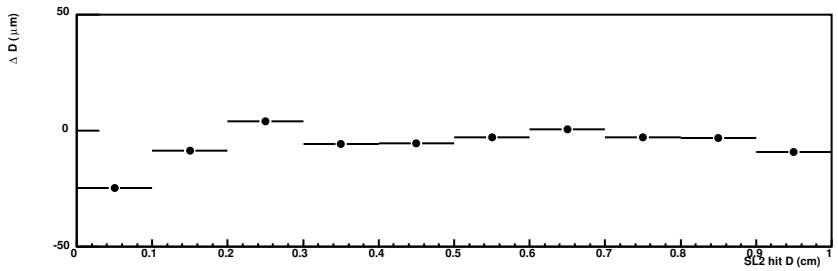

Δ Y (μm)
5
4
3
2
1
0
-1
-2
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

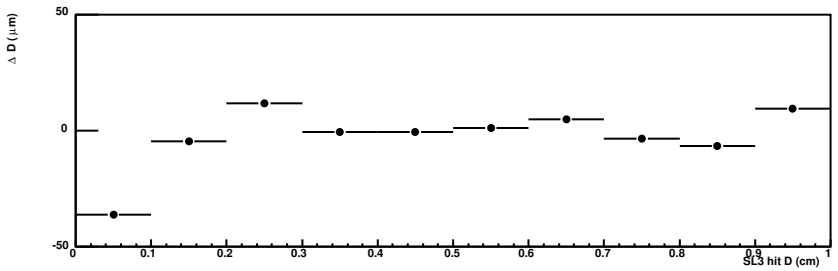

#Hit T (ns)
1
0.8
0.6
0.4
0.2
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

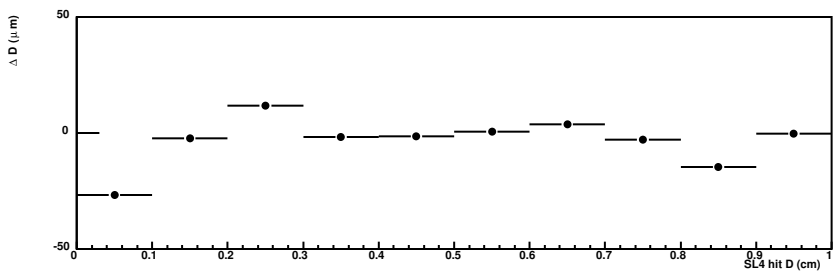

Δ D (μm)
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

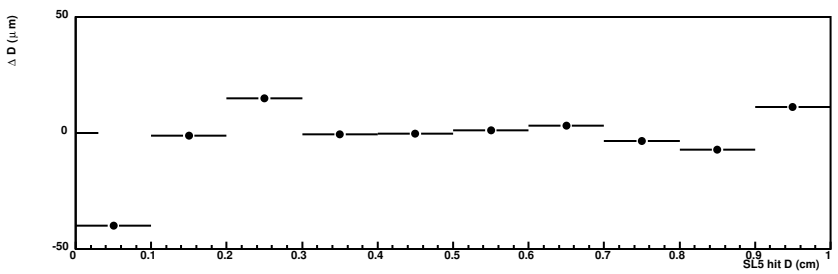

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL0 hit D (cm)

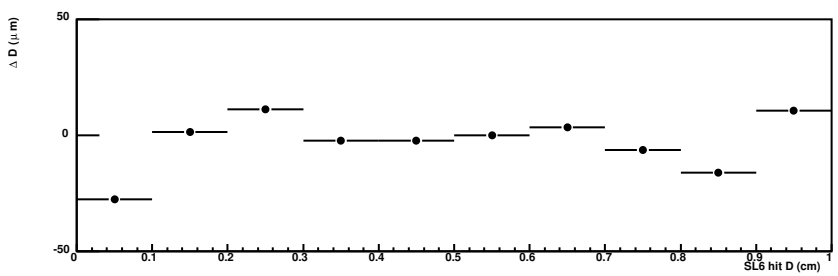

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL1 hit D (cm)

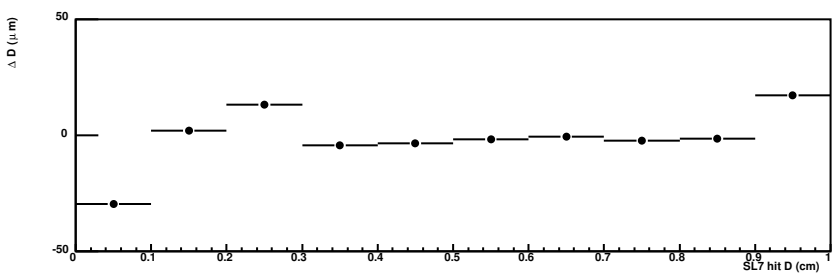

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL2 hit D (cm)

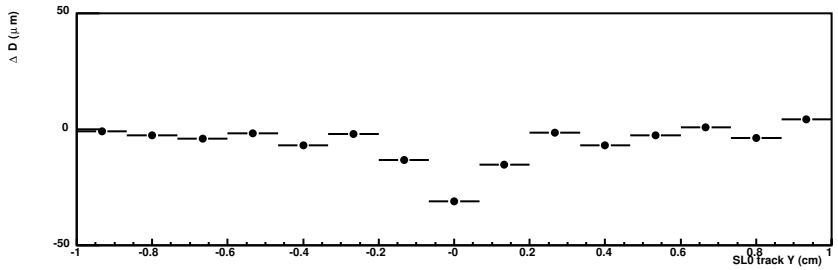

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL3 hit D (cm)

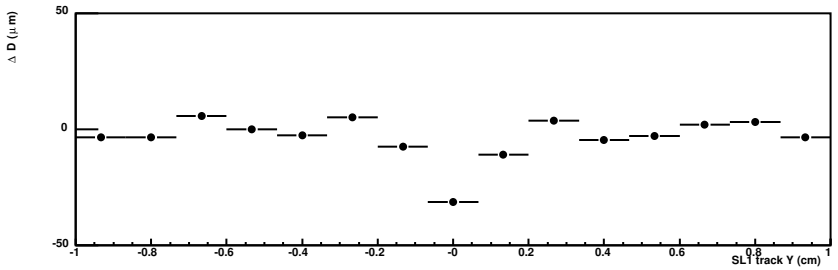

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL4 hit D (cm)

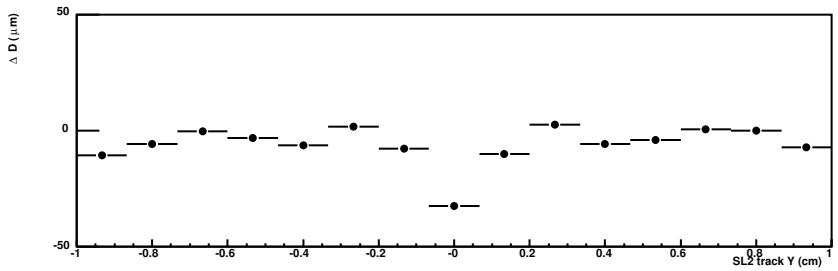

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL5 hit D (cm)

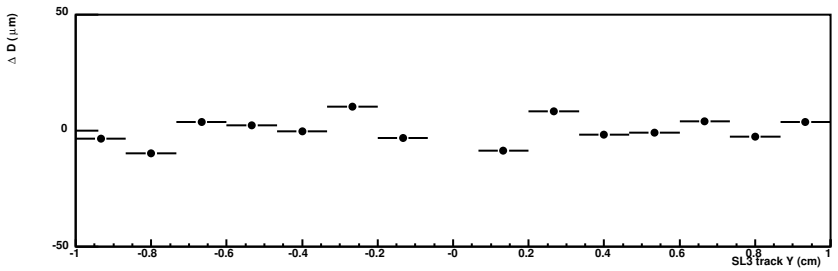

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL6 hit D (cm)

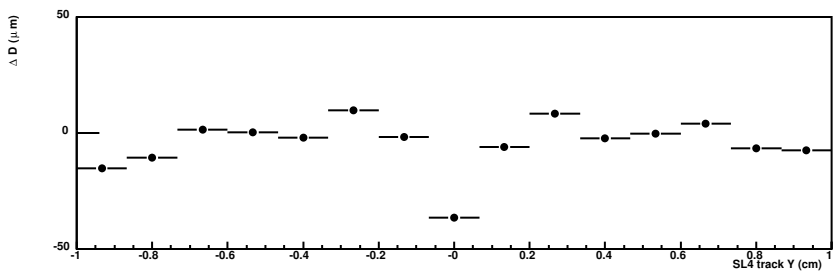

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL7 hit D (cm)

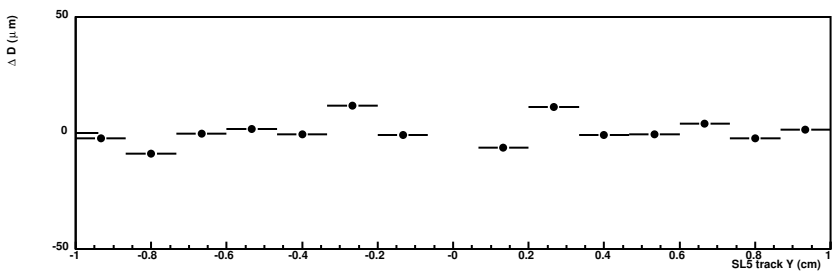

Δ D (μm)
50
0
-50
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
SL0 track Y (cm)

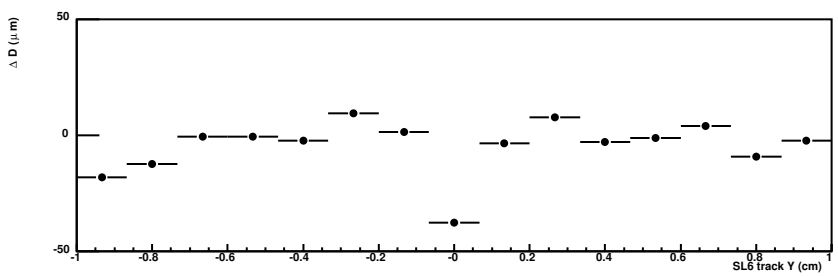

Δ D (μm)
50
0
-50
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
SL1 track Y (cm)

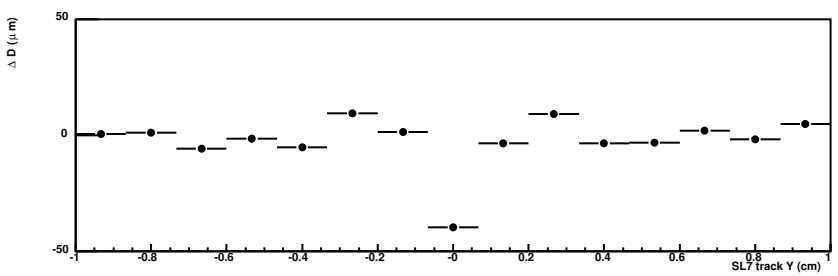

Δ D (μm)
50
0
-50
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
SL2 track Y (cm)

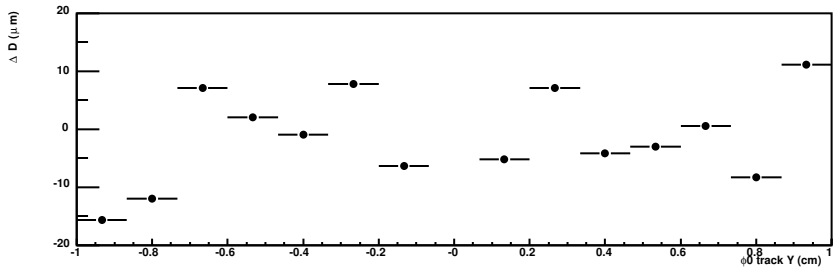

Δ D (μm)
50
0
-50
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
SL3 track Y (cm)

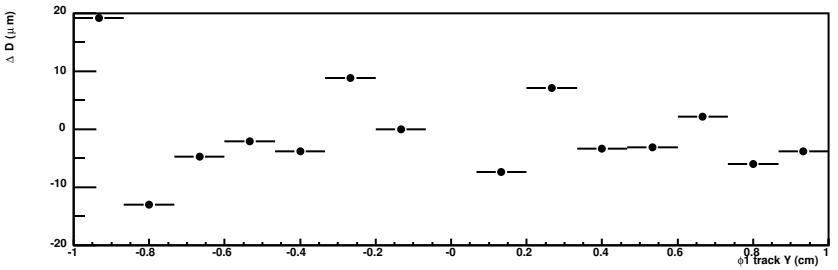

Δ D (μm)
50
0
-50
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
SL4 track Y (cm)

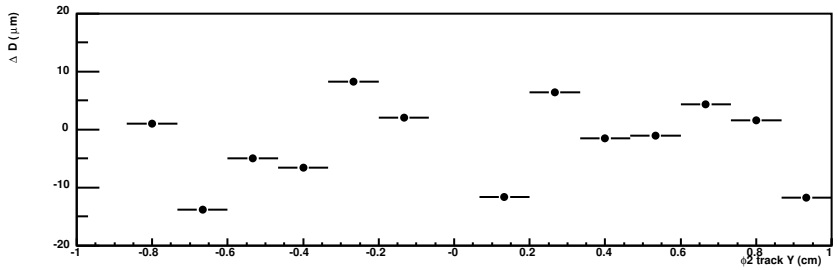

Δ D (μm)
50
0
-50
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
SL5 track Y (cm)

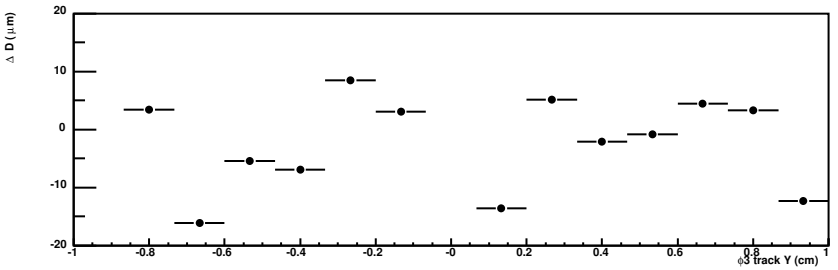

Δ D (μm)
50
0
-50
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
SL6 track Y (cm)

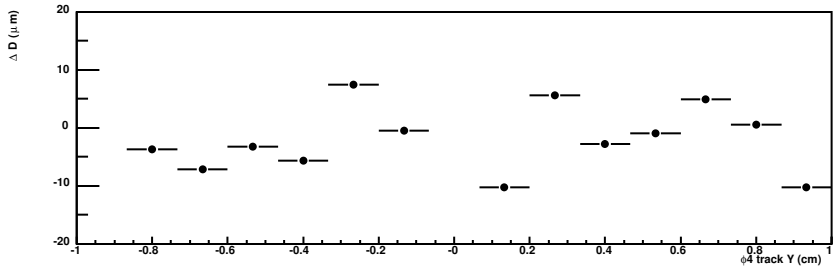

Δ D (μm)
50
0
-50
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
SL7 track Y (cm)

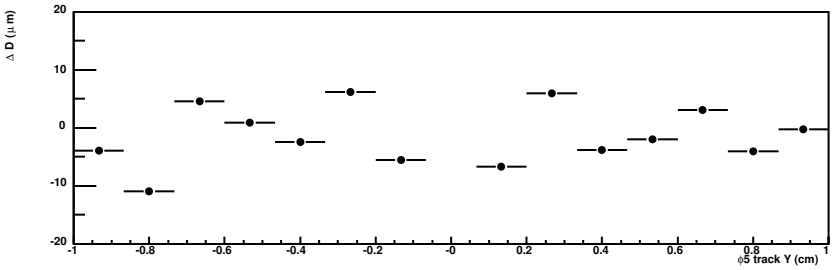

Δ D (μm)
20
10
0
-10
-20
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
ϕ0 track Y (cm)

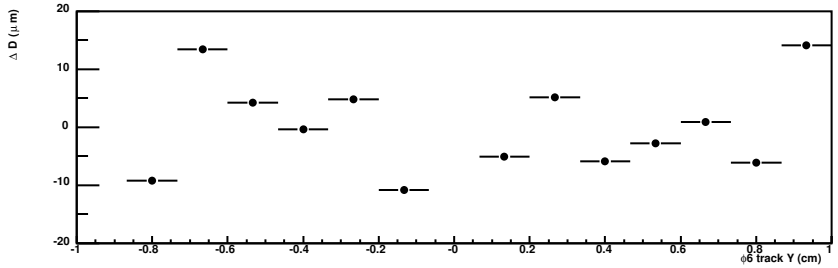

Δ D (μm)
20
10
0
-10
-20
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
ϕ1 track Y (cm)

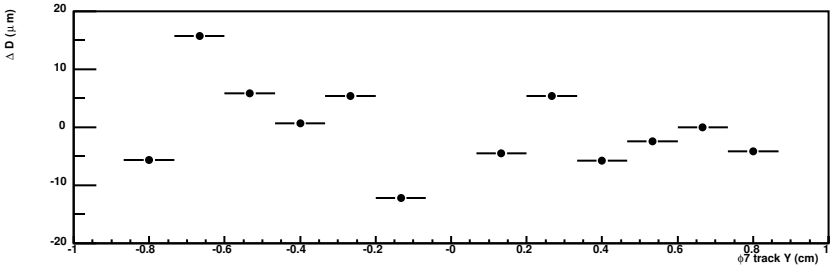

Δ D (μm)
20
10
0
-10
-20
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
ϕ2 track Y (cm)

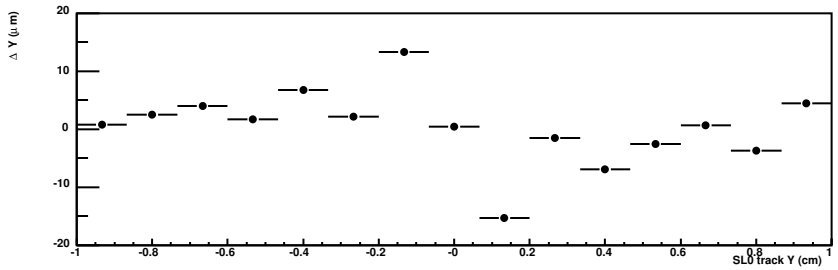

Δ D (μm)
20
10
0
-10
-20
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
ϕ3 track Y (cm)

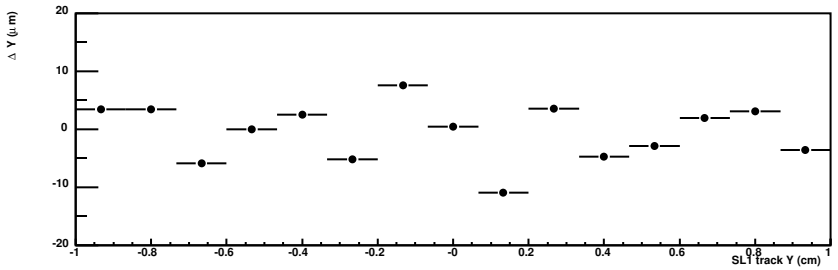

Δ D (μm)
20
10
0
-10
-20
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
ϕ4 track Y (cm)

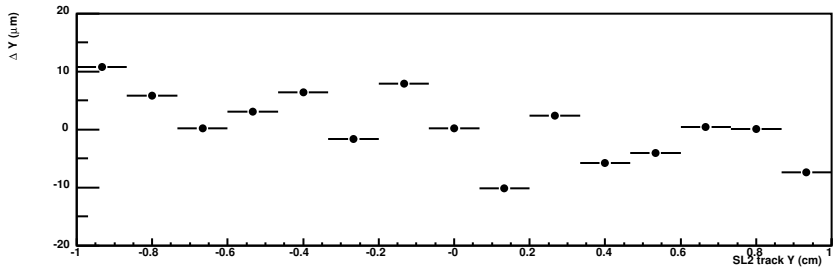

Δ D (μm)
20
10
0
-10
-20
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
ϕ5 track Y (cm)

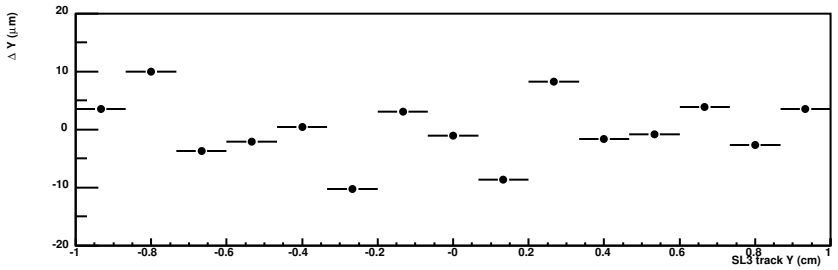

Δ D (μm)
20
10
0
-10
-20
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
ϕ6 track Y (cm)

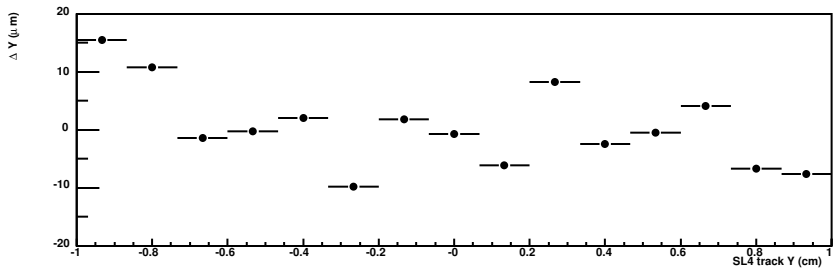

Δ D (μm)
20
10
0
-10
-20
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
ϕ7 track Y (cm)

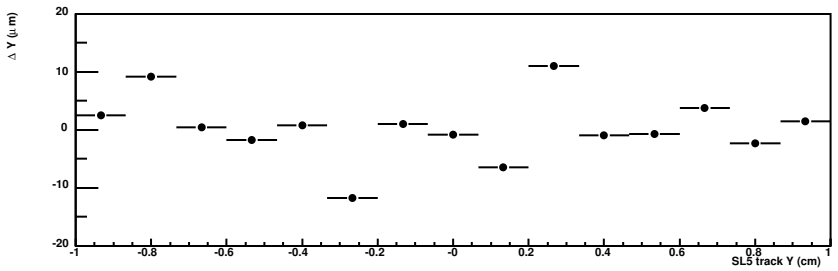

Δ Y (μm)
SL0 track Y (cm)

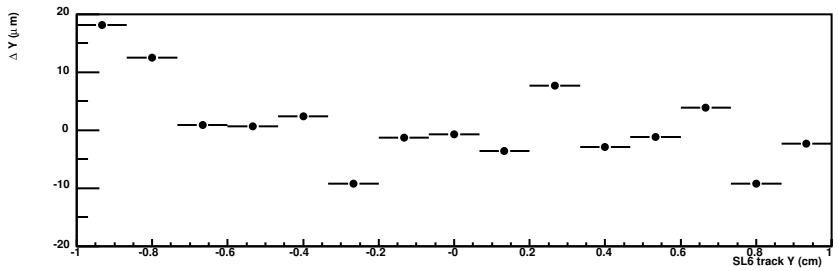

Δ Y (μm)
SL1 track Y (cm)

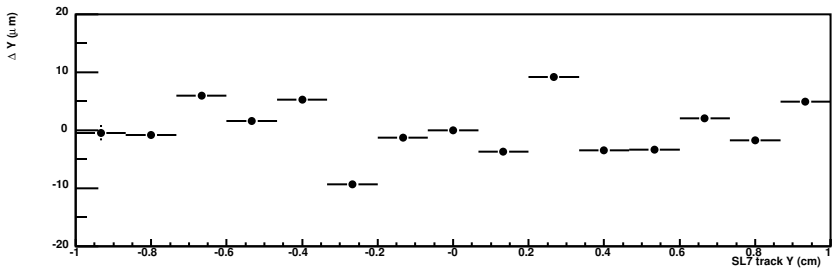

Δ Y (μm)
SL2 track Y (cm)

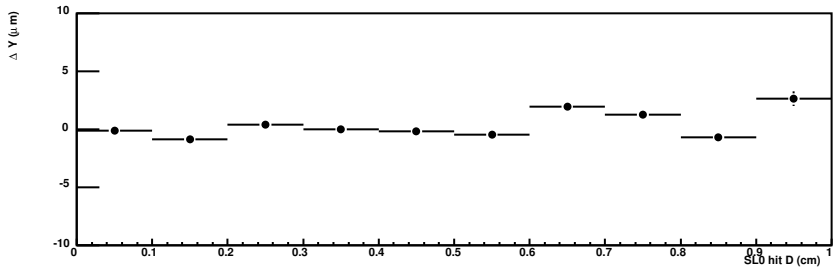

Δ Y (μm)
SL3 track Y (cm)

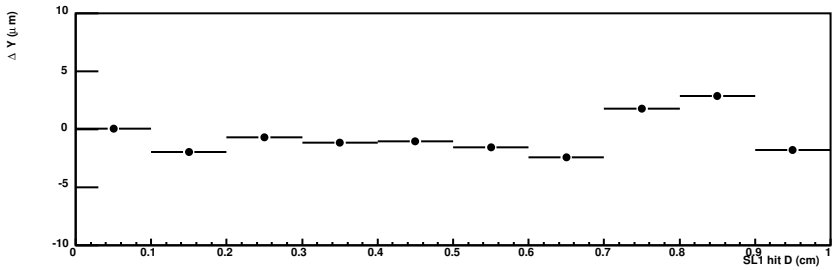

Δ Y (μm)
SL4 track Y (cm)

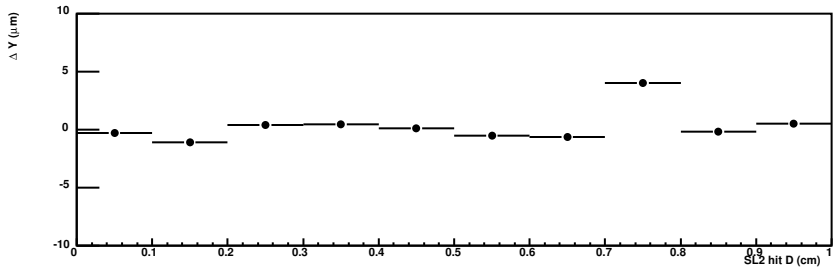

Δ Y (μm)
SL5 track Y (cm)

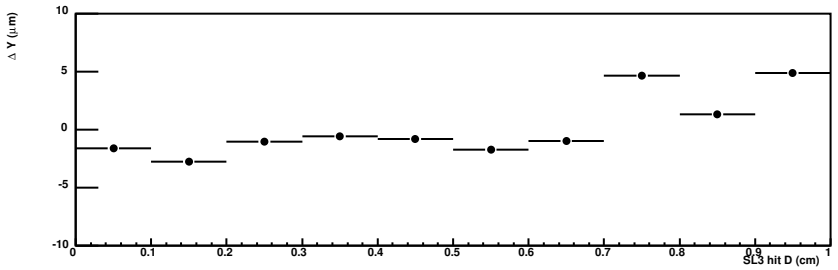

Δ Y (μm)
SL6 track Y (cm)

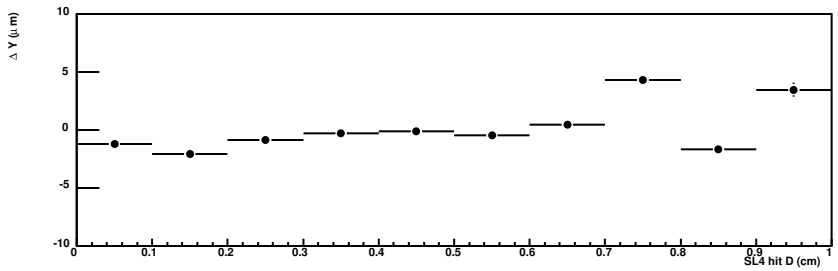

Δ Y (μm)
SL7 track Y (cm)

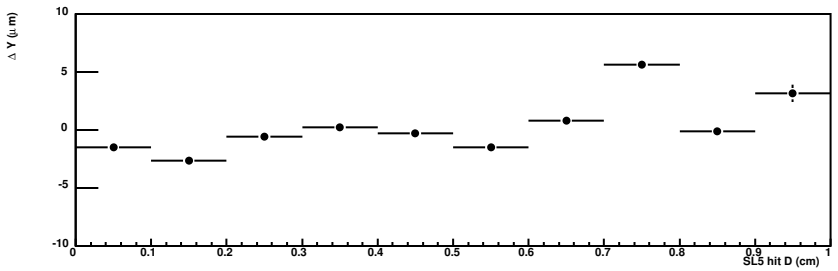

Δ Y (μm)
SL0 hit D (cm)

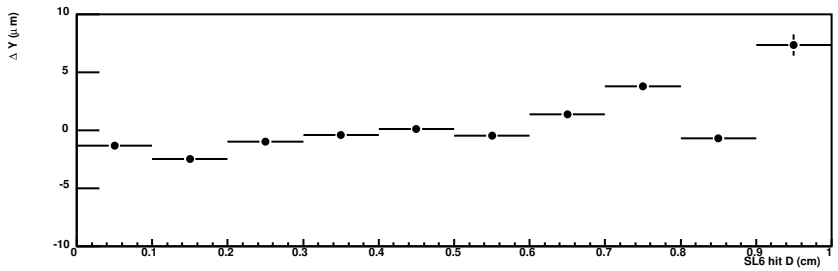

Δ Y (μm)
SL1 hit D (cm)

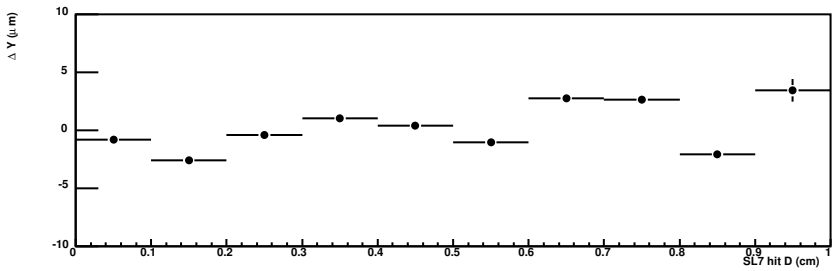

Δ Y (μm)
SL2 hit D (cm)

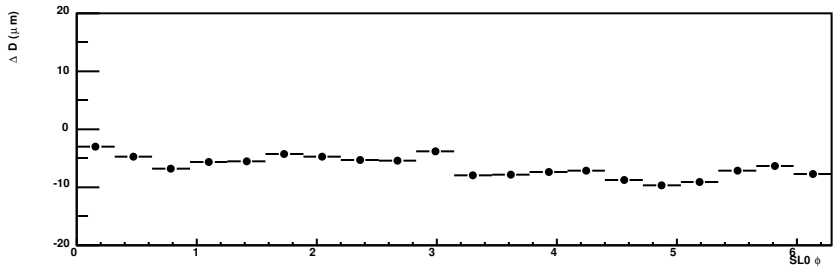

Δ Y (μm)
SL3 hit D (cm)

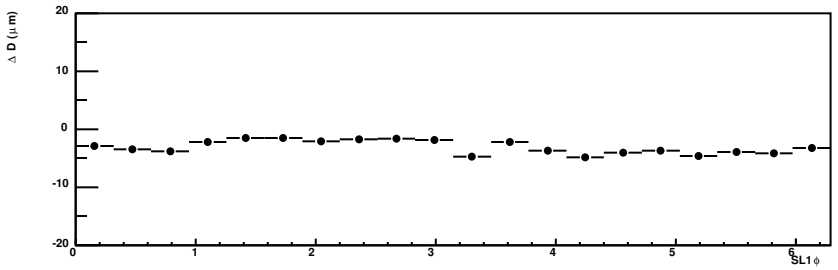

Δ Y (μm)
SL4 hit D (cm)

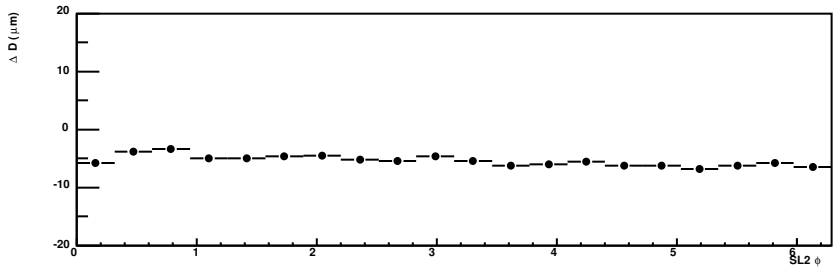

Δ Y (μm)
SL5 hit D (cm)

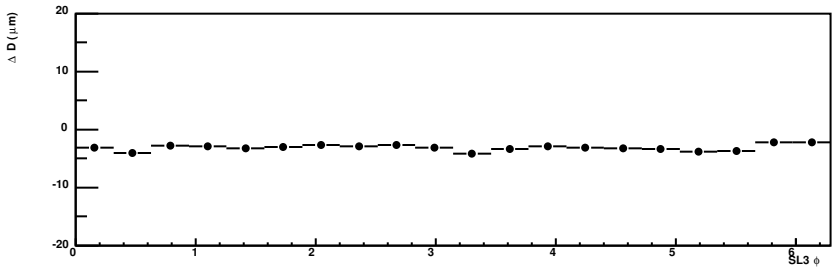

Δ Y (μm)
SL6 hit D (cm)

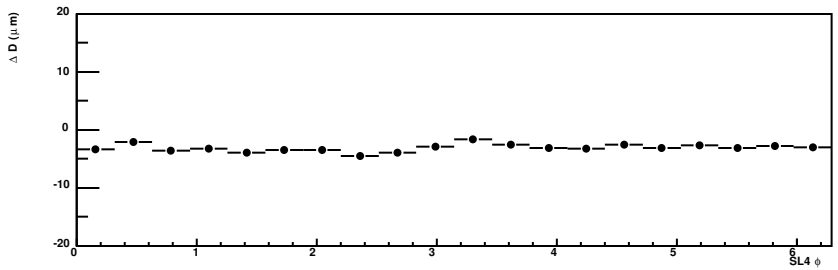

Δ Y (μm)
SL7 hit D (cm)

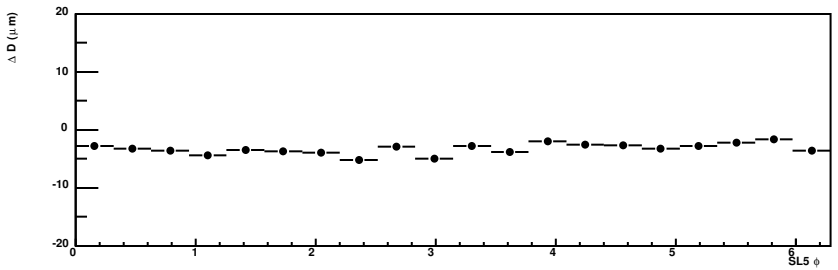

Δ D (μm)
SL0 ϕ

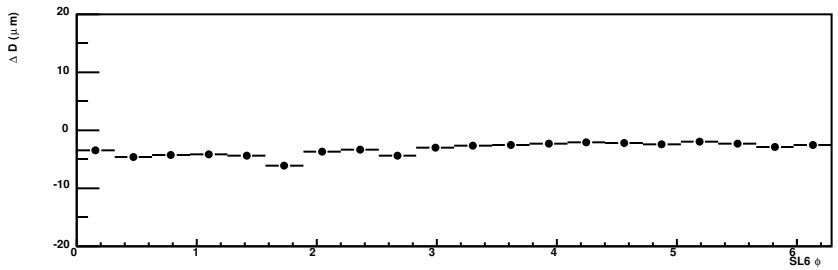

Δ D (μm)
SL1 ϕ

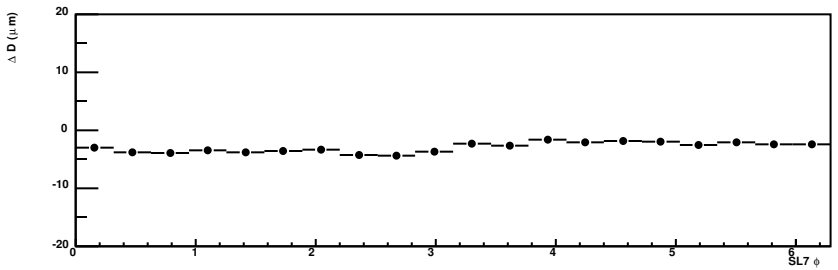

Δ D (μm)
SL2 ϕ

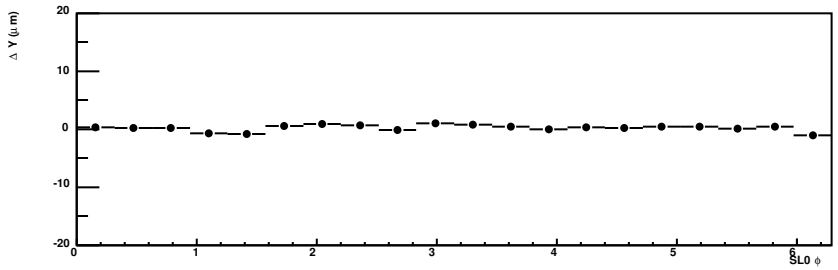

Δ D (μm)
SL3 ϕ

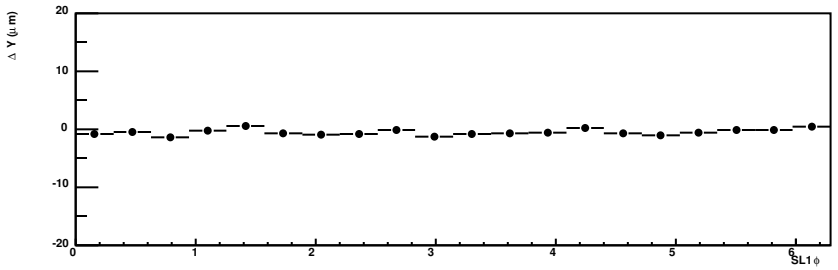

Δ D (μm)
SL4 ϕ

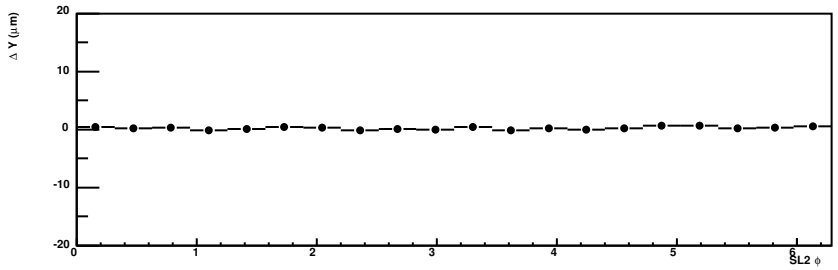

Δ D (μm)
SL5 ϕ

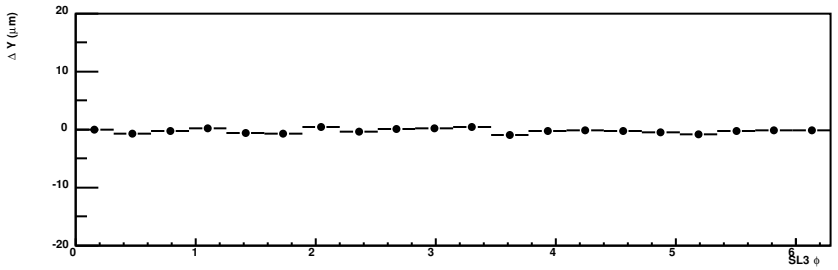

Δ D (μm)
SL6 ϕ

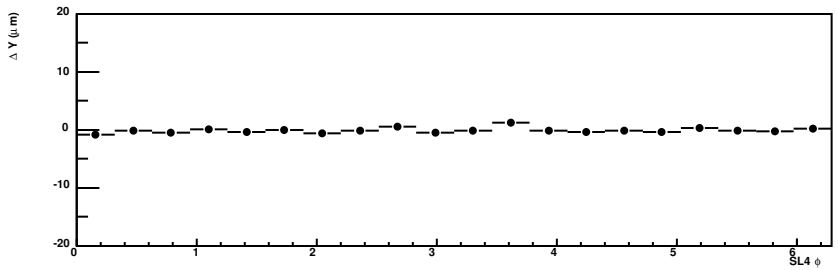

Δ D (μm)
SL7 ϕ

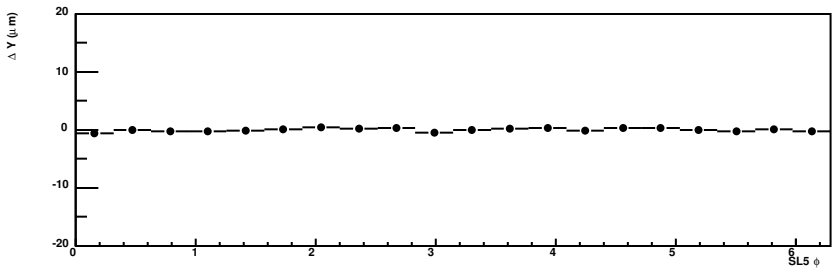

Δ Y (μ m)
20
10
0
-10
-20
0
1
2
3
4
5
6
SL0 ϕ

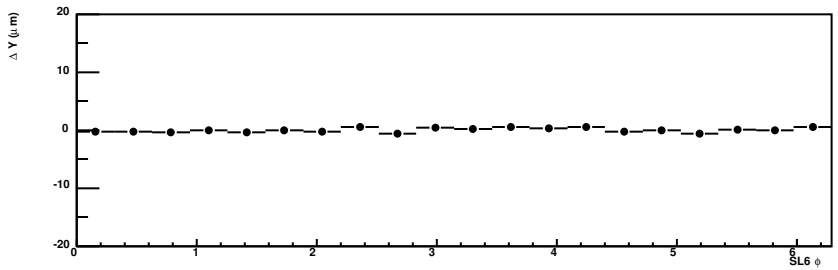

Δ Y (μ m)
20
10
0
-10
-20
0
1
2
3
4
5
6
SL1 ϕ

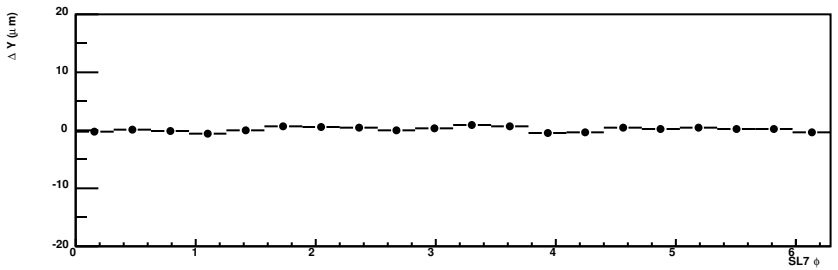

Δ Y (μ m)
20
10
0
-10
-20
0
1
2
3
4
5
6
SL2 ϕ

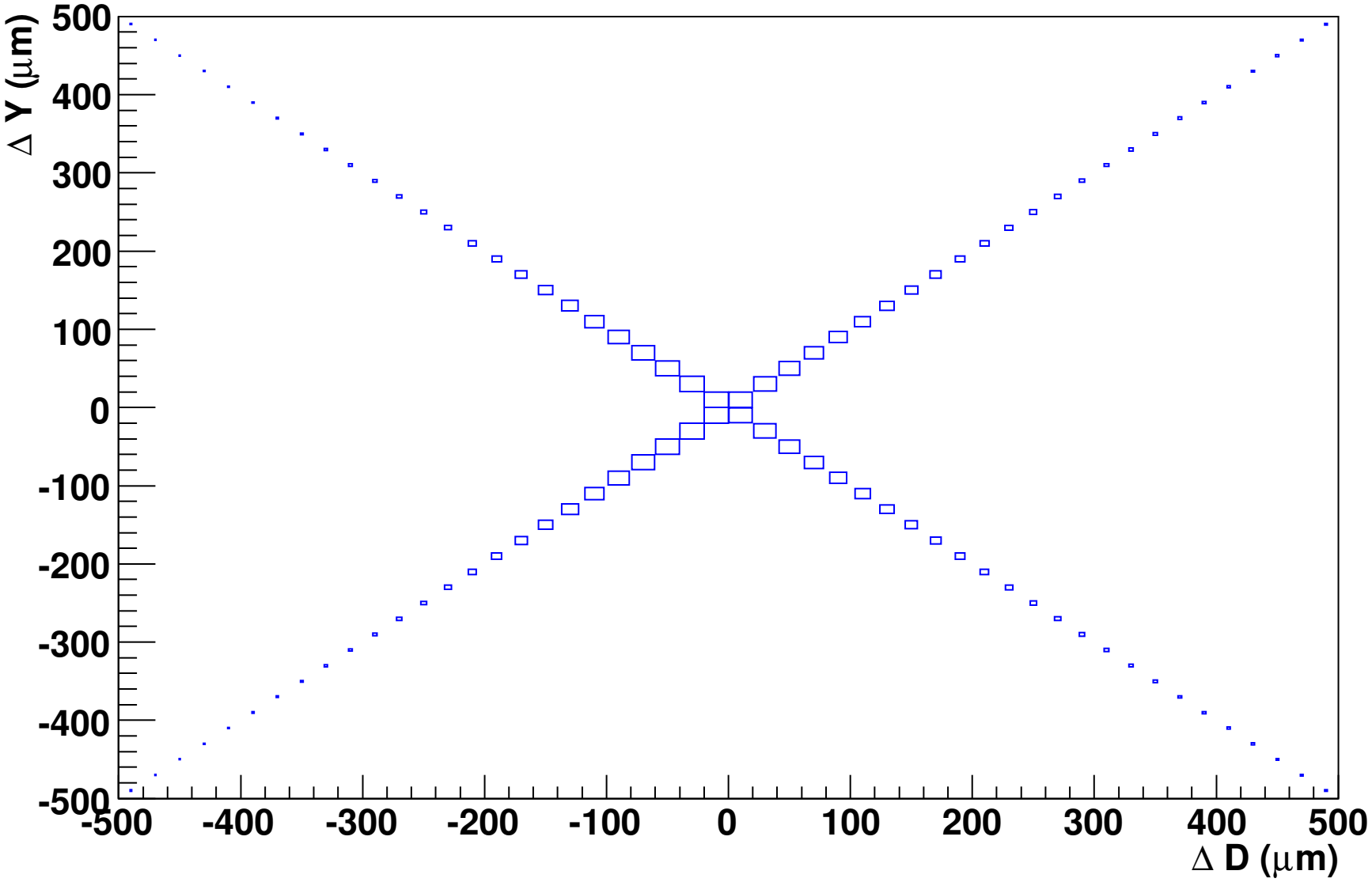

Δ Y (μ m)
20
10
0
-10
-20
0
1
2
3
4
5
6
SL3 ϕ

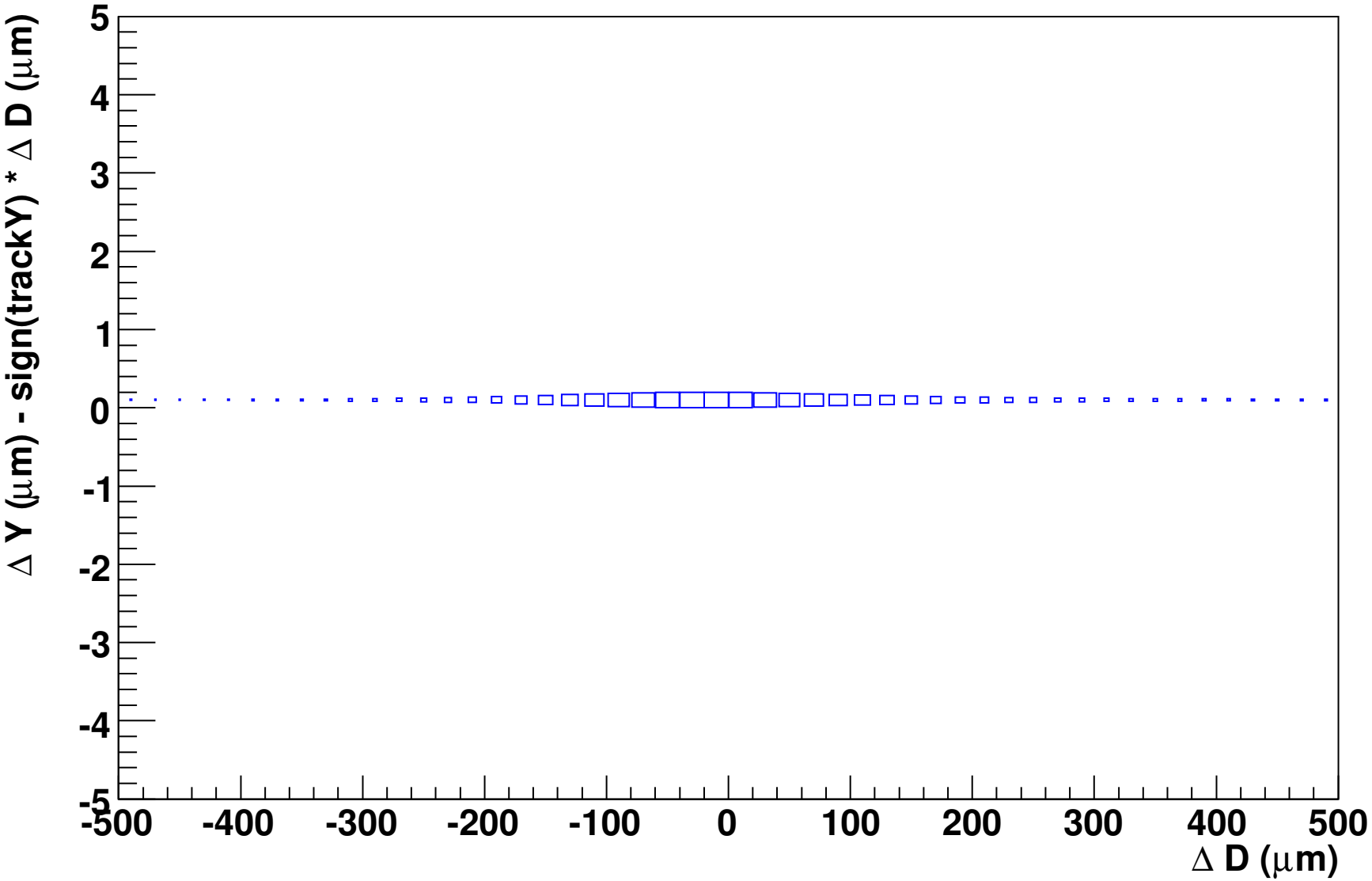

Δ Y (μ m)
20
10
0
-10
-20
0
1
2
3
4
5
6
SL4 ϕ

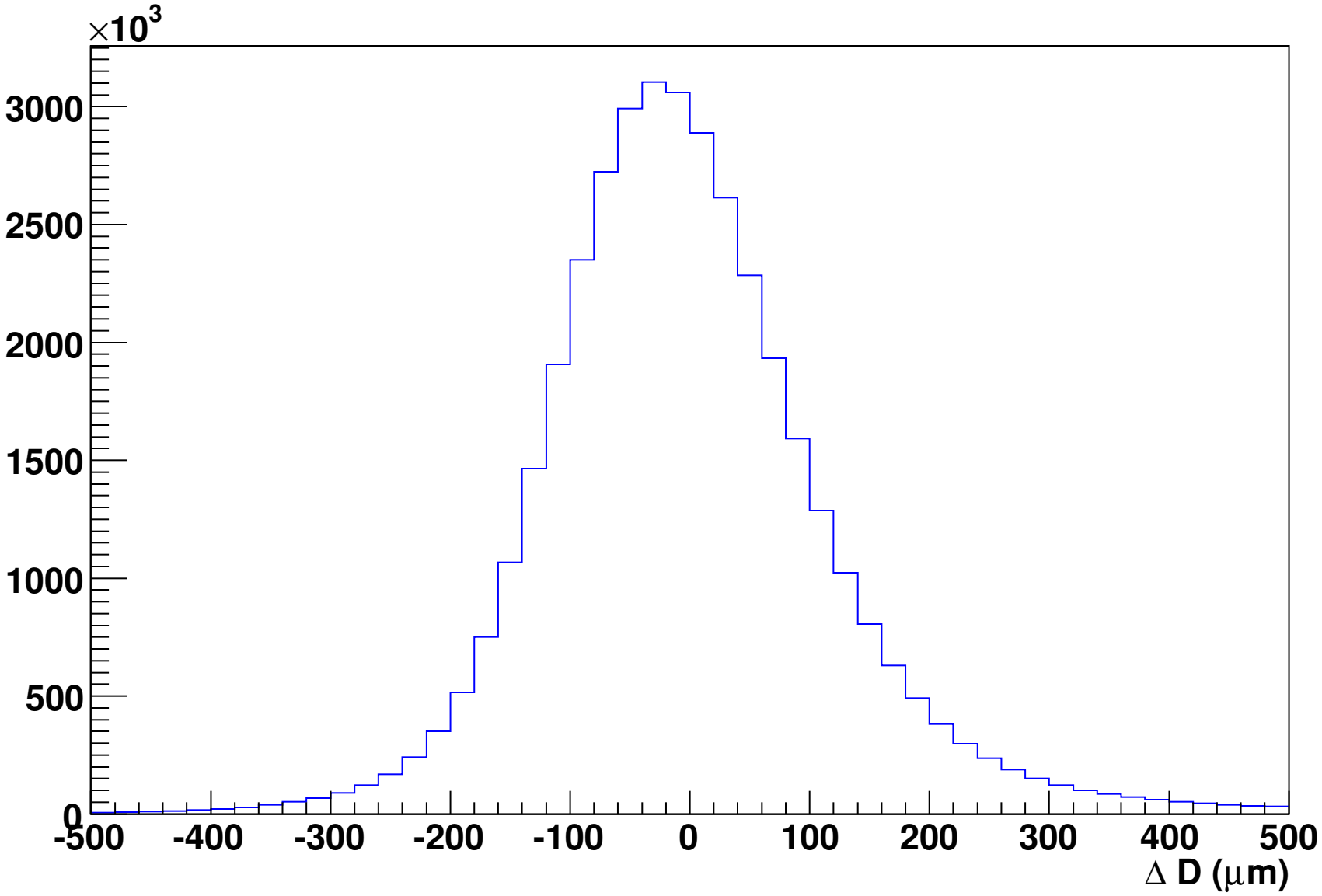

Δ Y (μ m)
20
10
0
-10
-20
0
1
2
3
4
5
6
SL5 ϕ

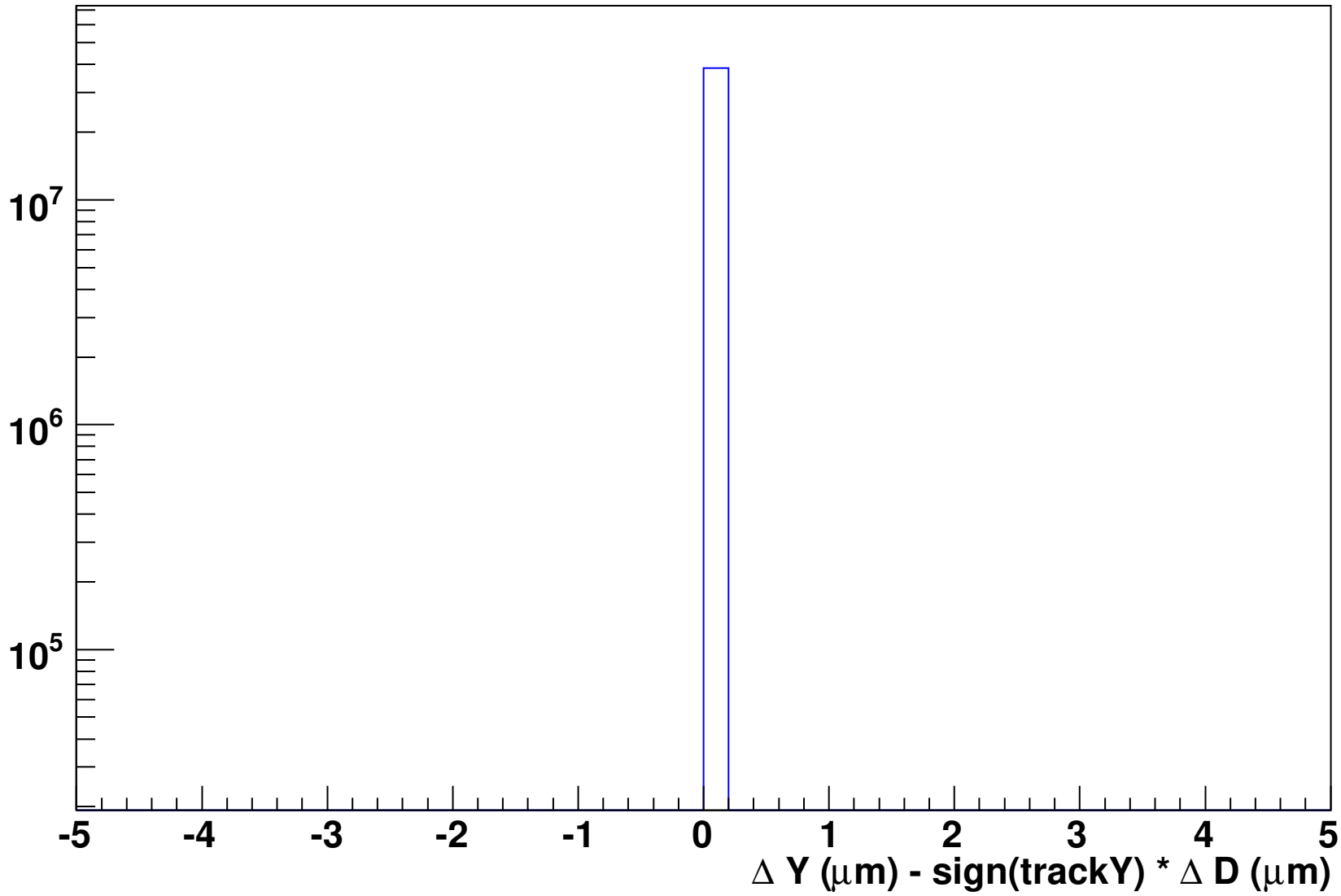

Δ Y (μ m)
20
10
0
-10
-20
0
1
2
3
4
5
6
SL6 ϕ

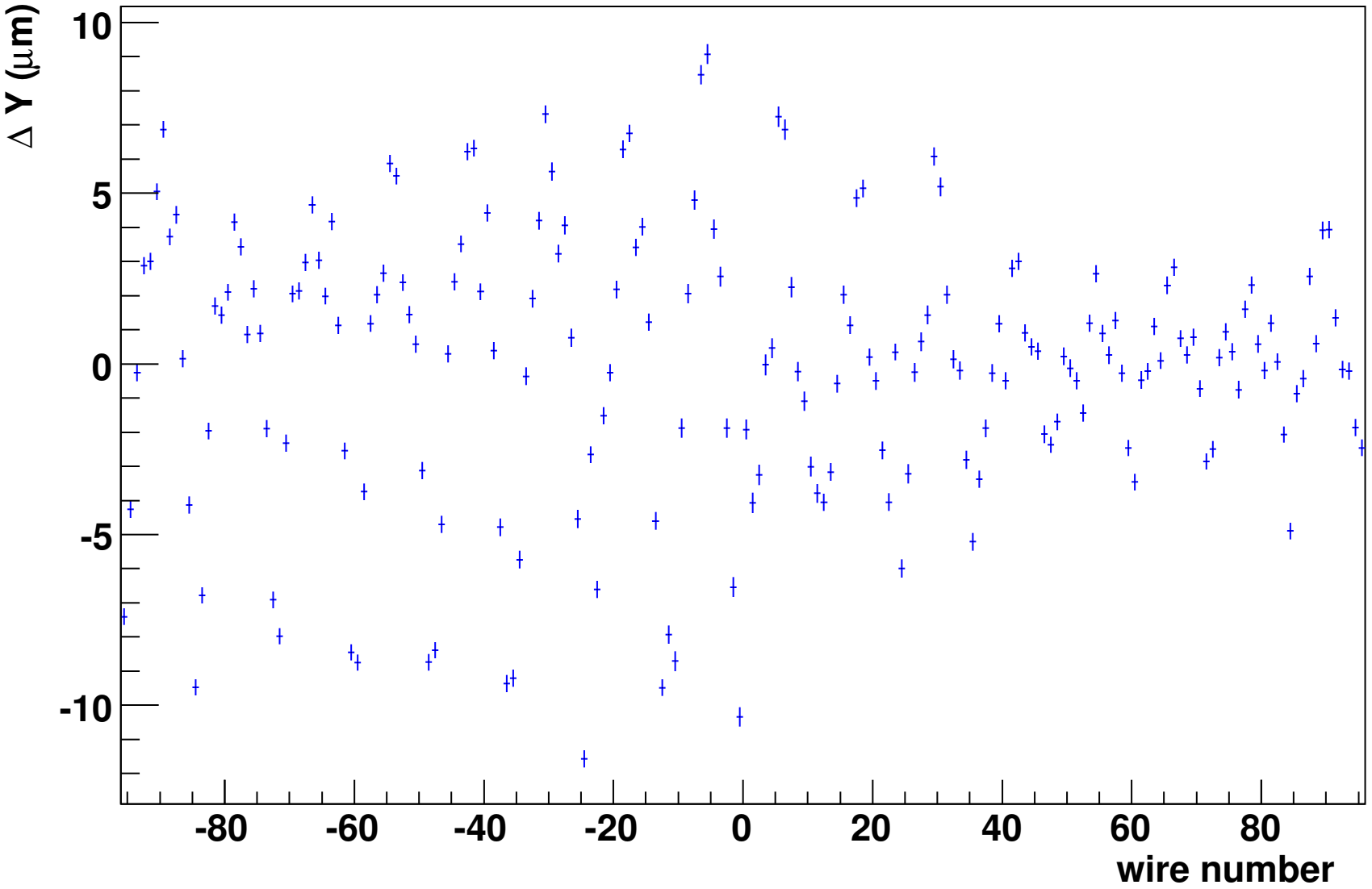

Δ Y (μ m)
20
10
0
-10
-20
0
1
2
3
4
5
6
SL7 ϕ

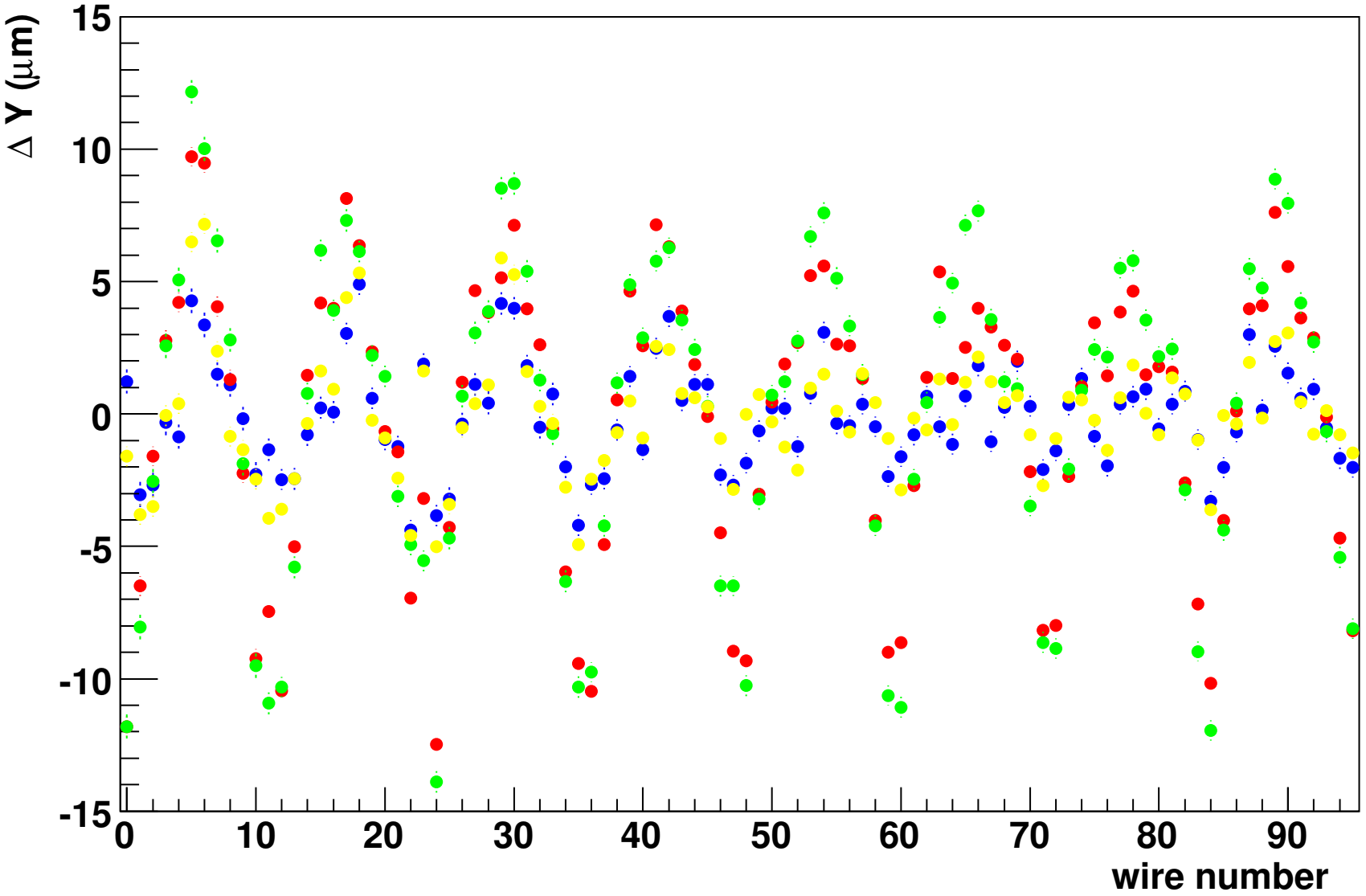

Δ Y (μm)
500
400
300
200
100
0
-100
-200
-300
-400
-500
-500
-400
-300
-200
-100
0
100
200
300
400
500
Δ D (μm)

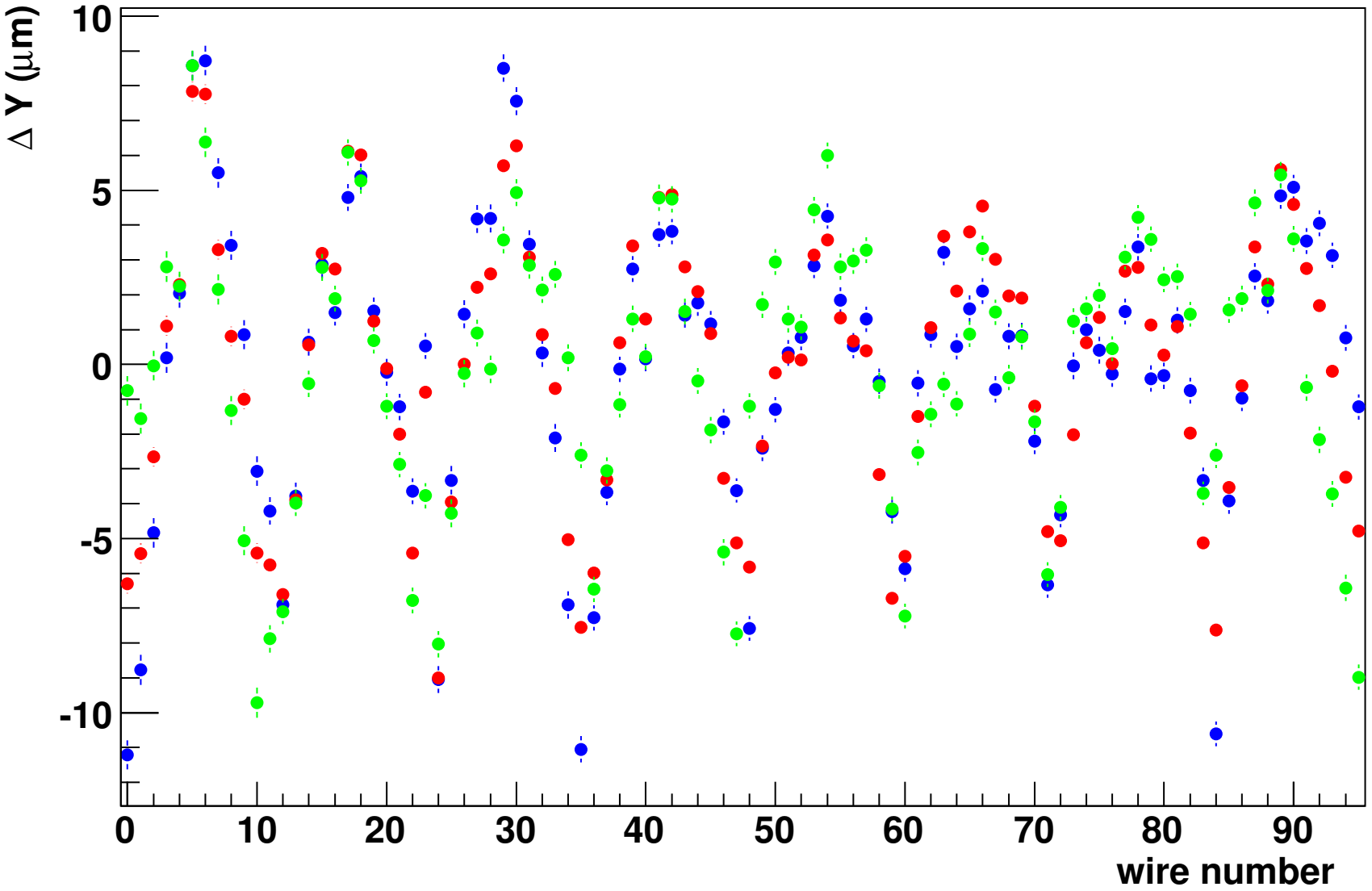

Δ Y (μm) - sign(trackY) * Δ D (μm)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-500
-400
-300
-200
-100
0
100
200
300
400
500
Δ D (μm)

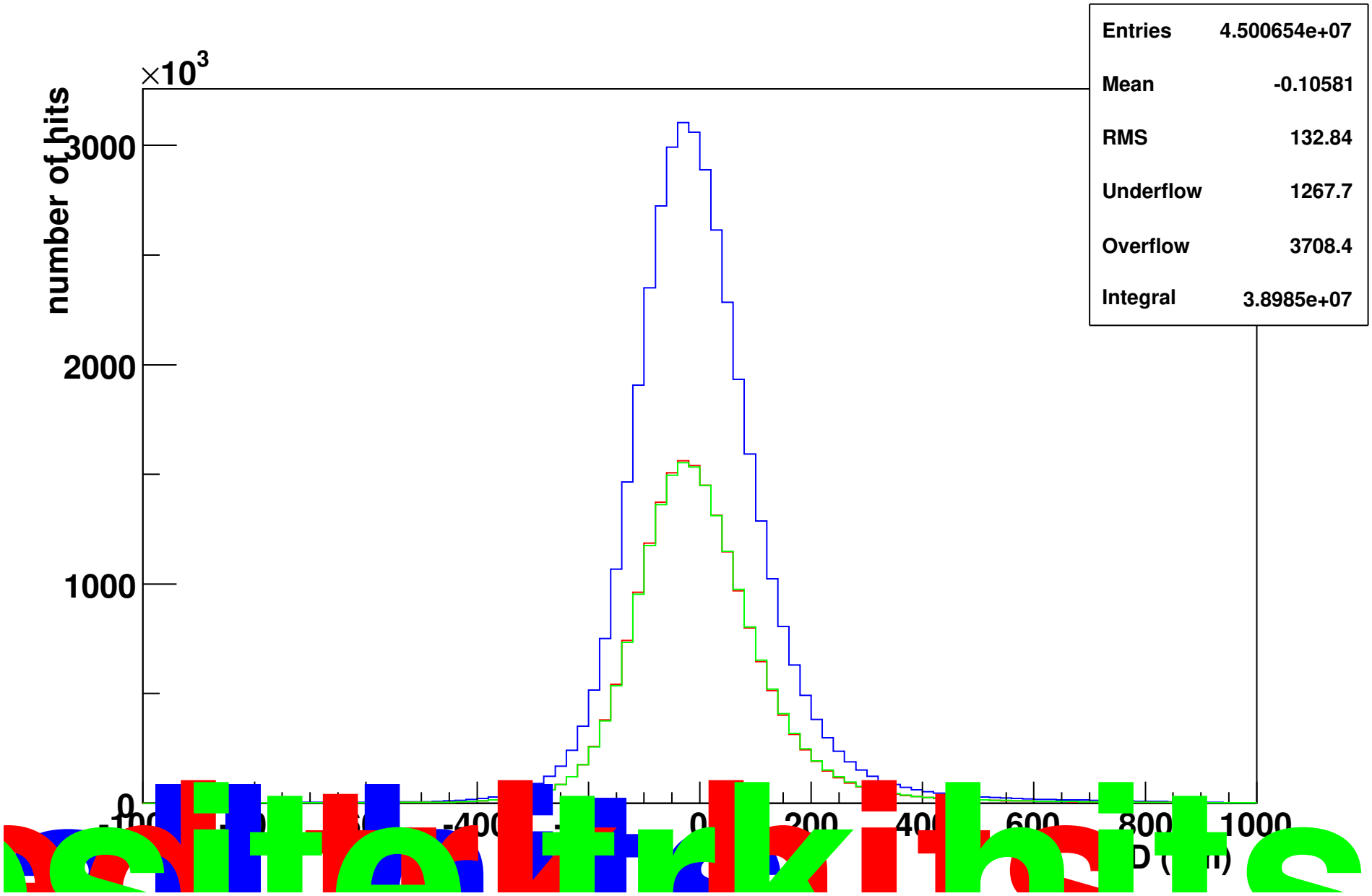

×10^3
3000
2500
2000
1500
1000
500
0
-500
-400
-300
-200
-100
0
100
200
300
400
500
Δ D (μm)

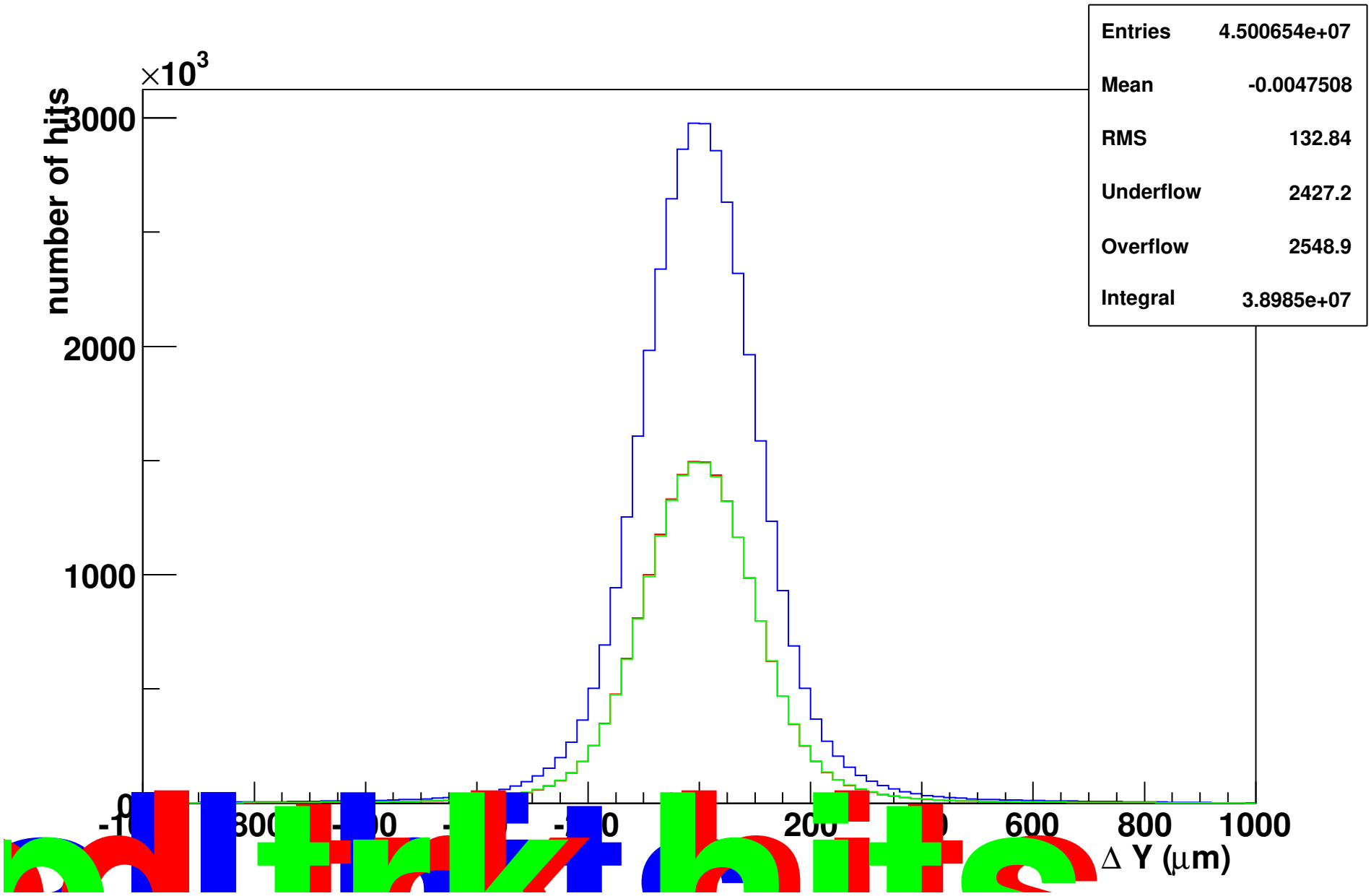

10^7
10^6
10^5
-5
-4
-3
-2
-1
0
1
2
3
4
5
Δ Y (μm) - sign(trackY) * Δ D (μm)

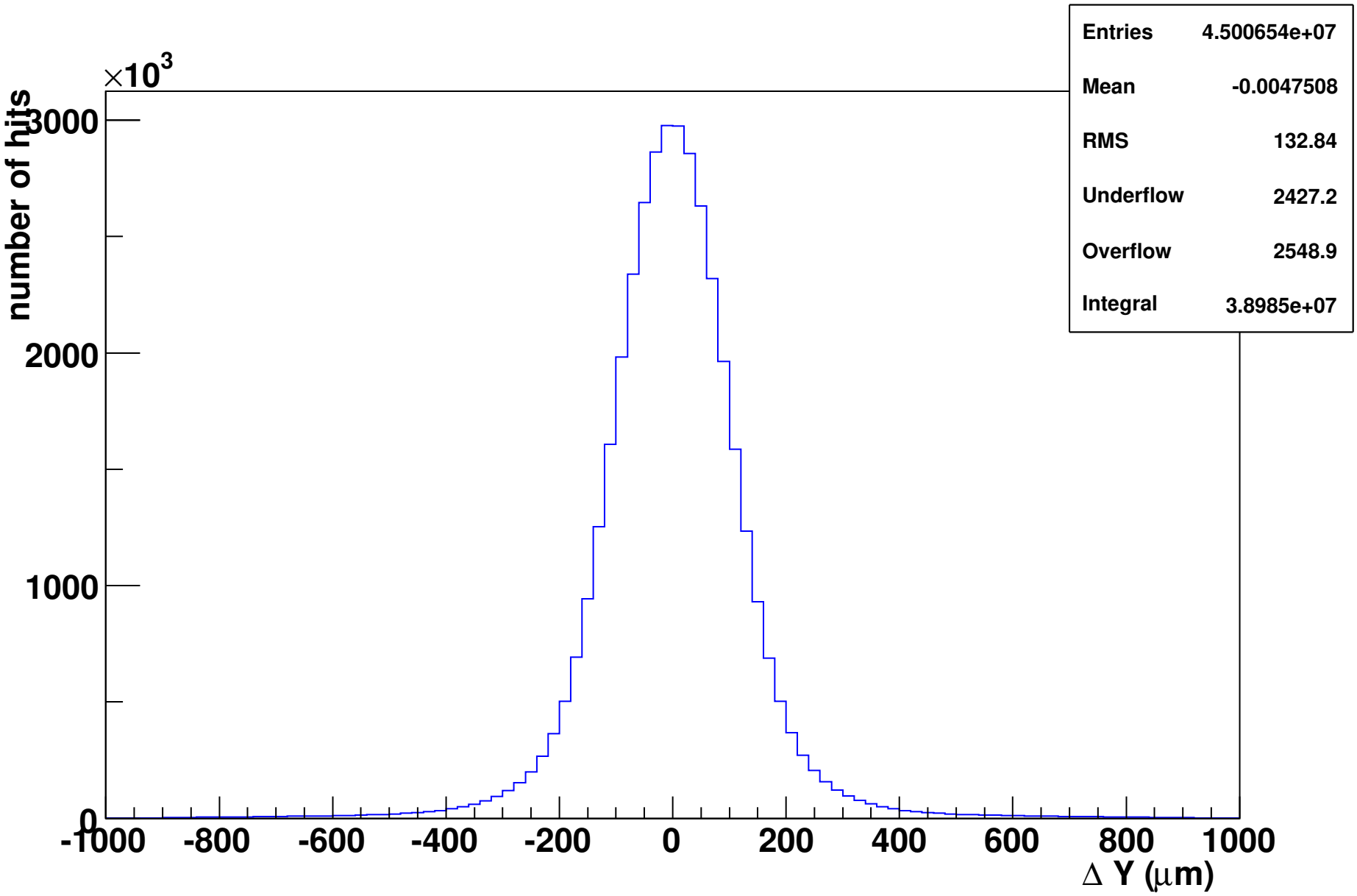

Δ Y (μm)
10
5
0
-5
-10
-80
-60
-40
-20
0
20
40
60
80
wire number


Δ Y (μm)
15
10
5
0
-5
-10
-15
0
10
20
30
40
50
60
70
80
90
wire number


Δ Y (μm)
10
5
0
-5
-10
0
10
20
30
40
50
60
70
80
90
wire number


Entries 4.500654e+07
Mean -0.10581
RMS 132.84
Underflow 1267.7
Overflow 3708.4
Integral 3.8985e+07
number of hits
×10^3
3000
2000
1000
0
-400
200
400
600
800
1000


Entries 4.500654e+07
Mean -0.0047508
RMS 132.84
Underflow 2427.2
Overflow 2548.9
Integral 3.8985e+07
×10^3
number of hits
3000
2000
1000
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000
Δ Y (μm)
additional hits


Entries 4.500654e+07
Mean -0.0047508
RMS 132.84
Underflow 2427.2
Overflow 2548.9
Integral 3.8985e+07
×10^3
number of hits
3000
2000
1000
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000
Δ Y (μm)