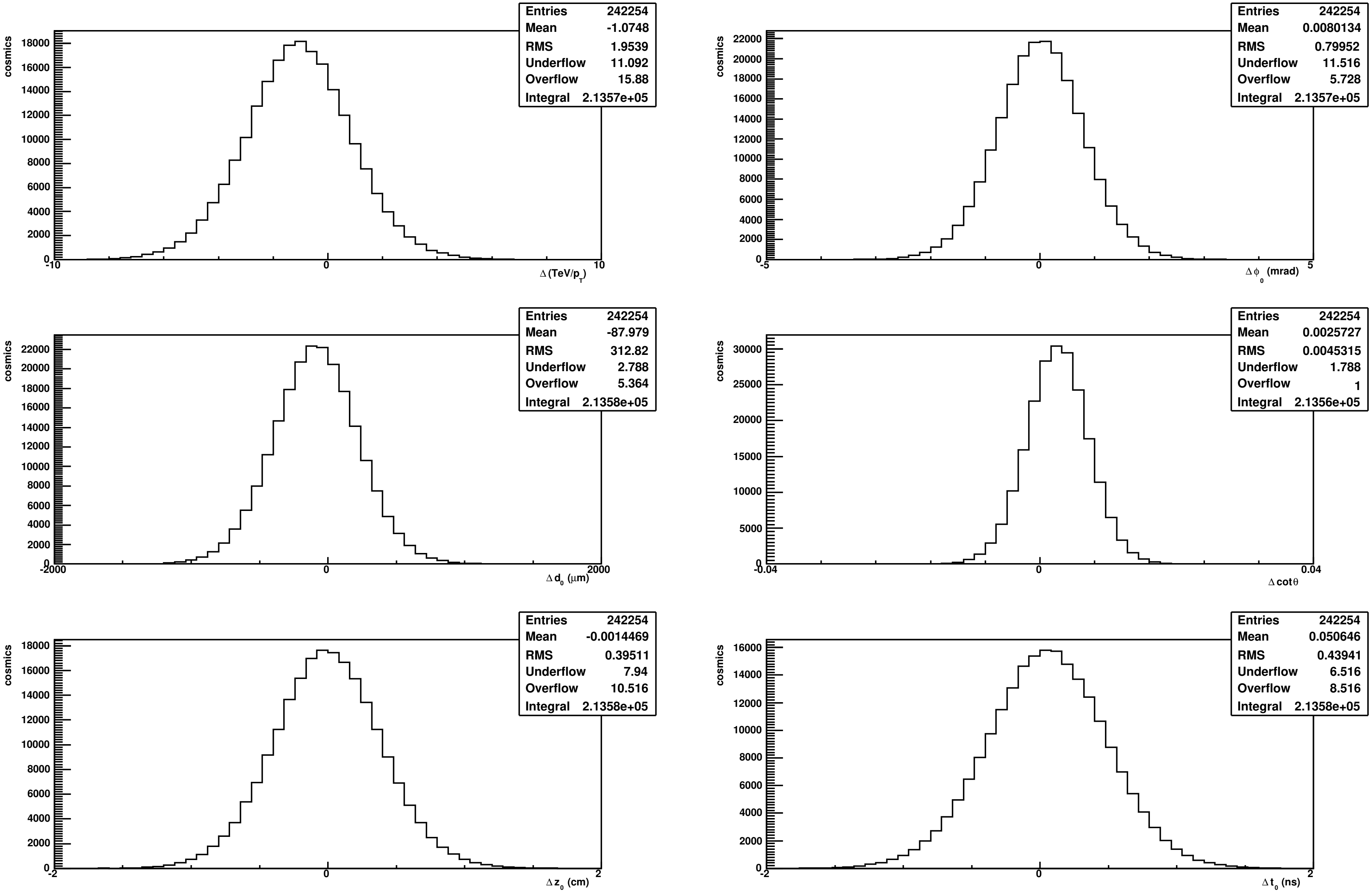
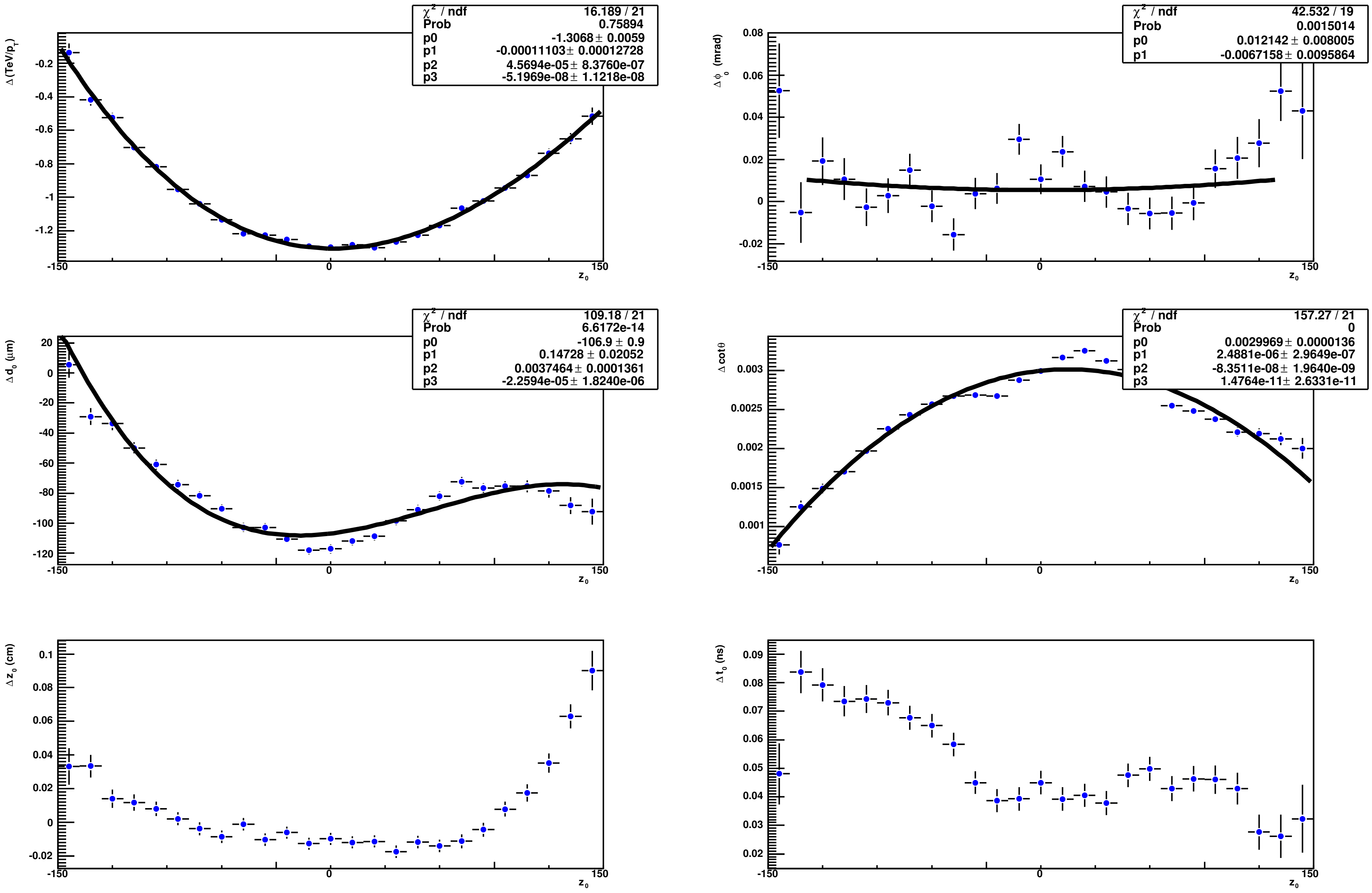
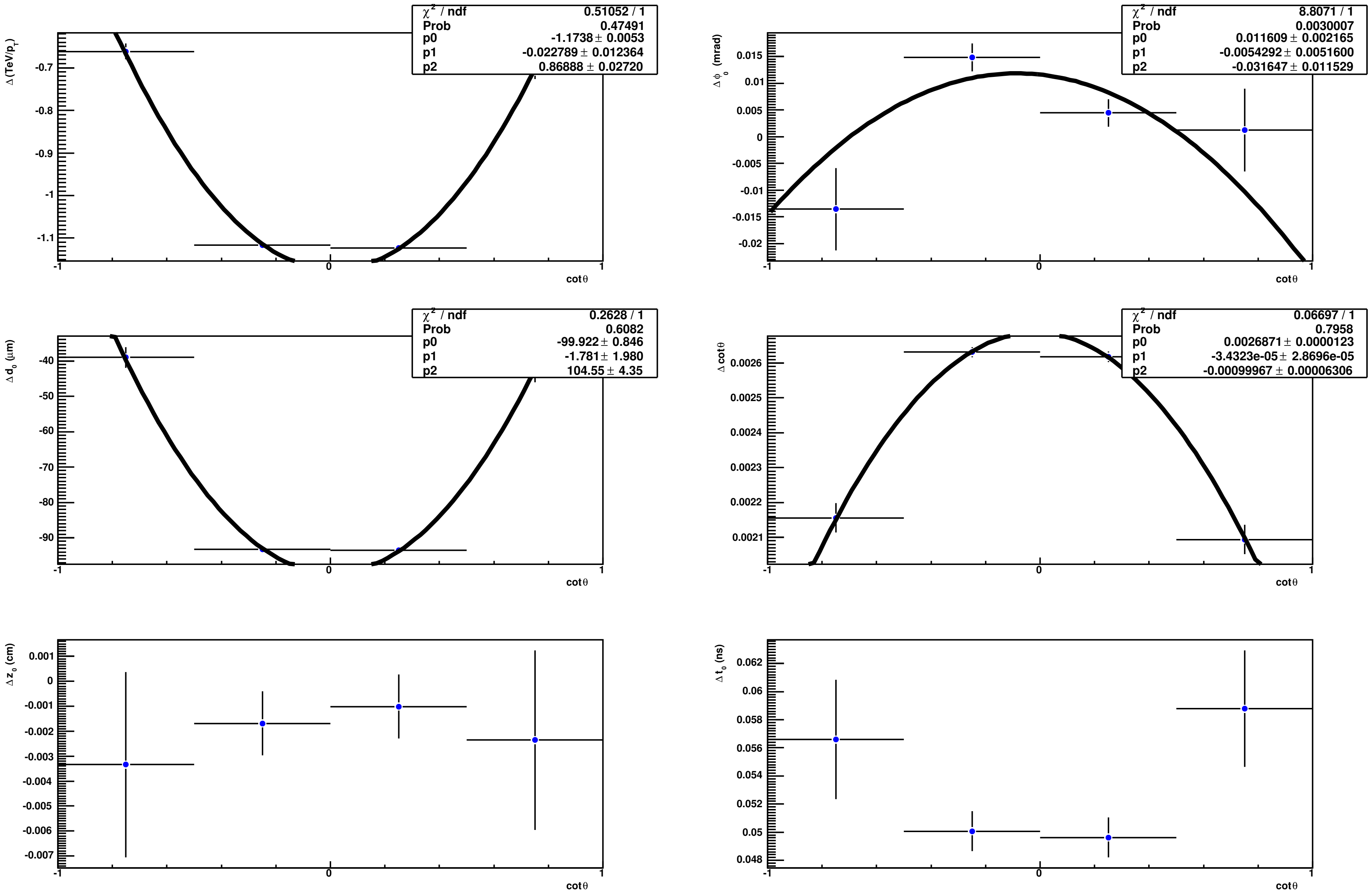
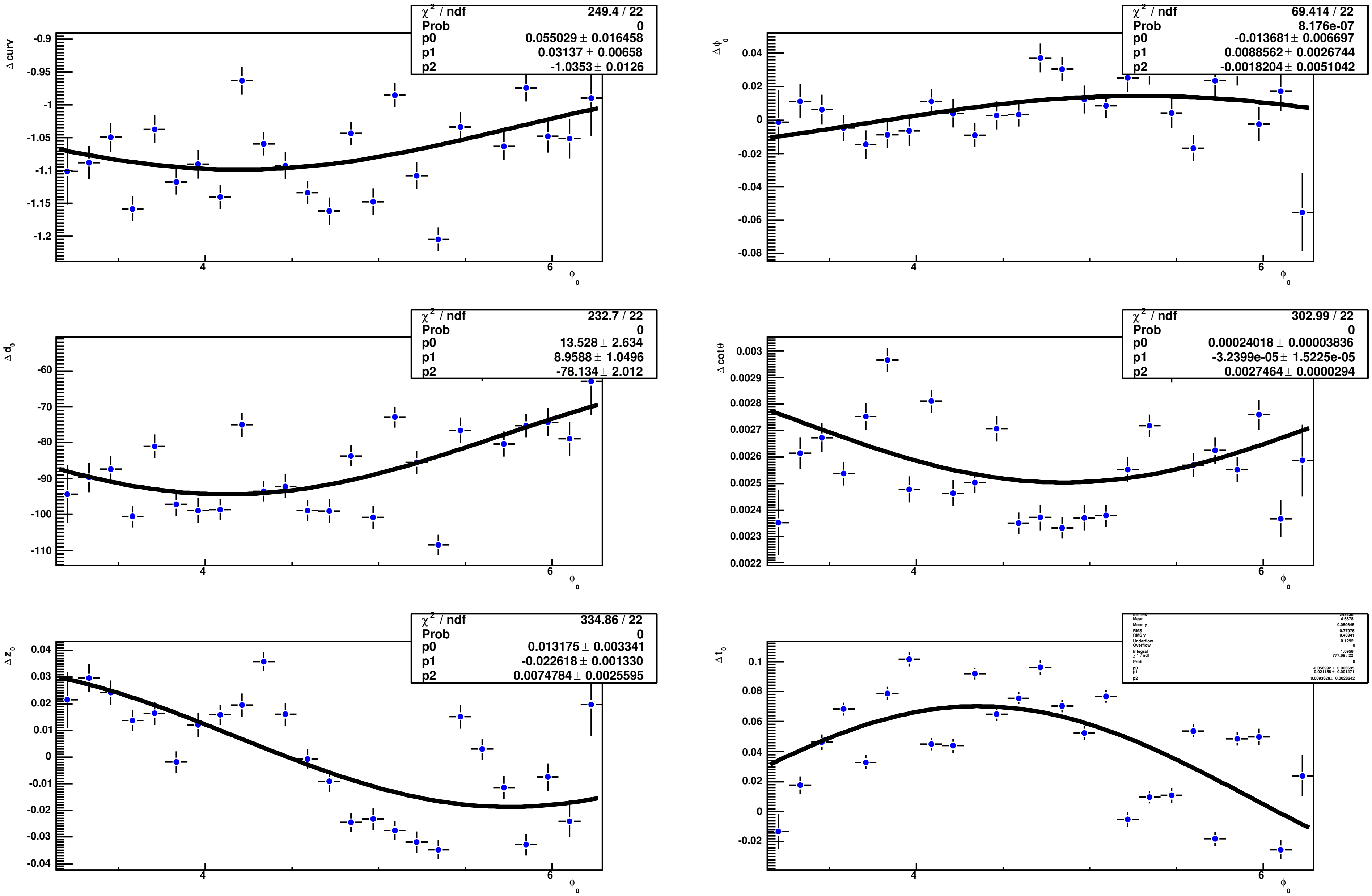
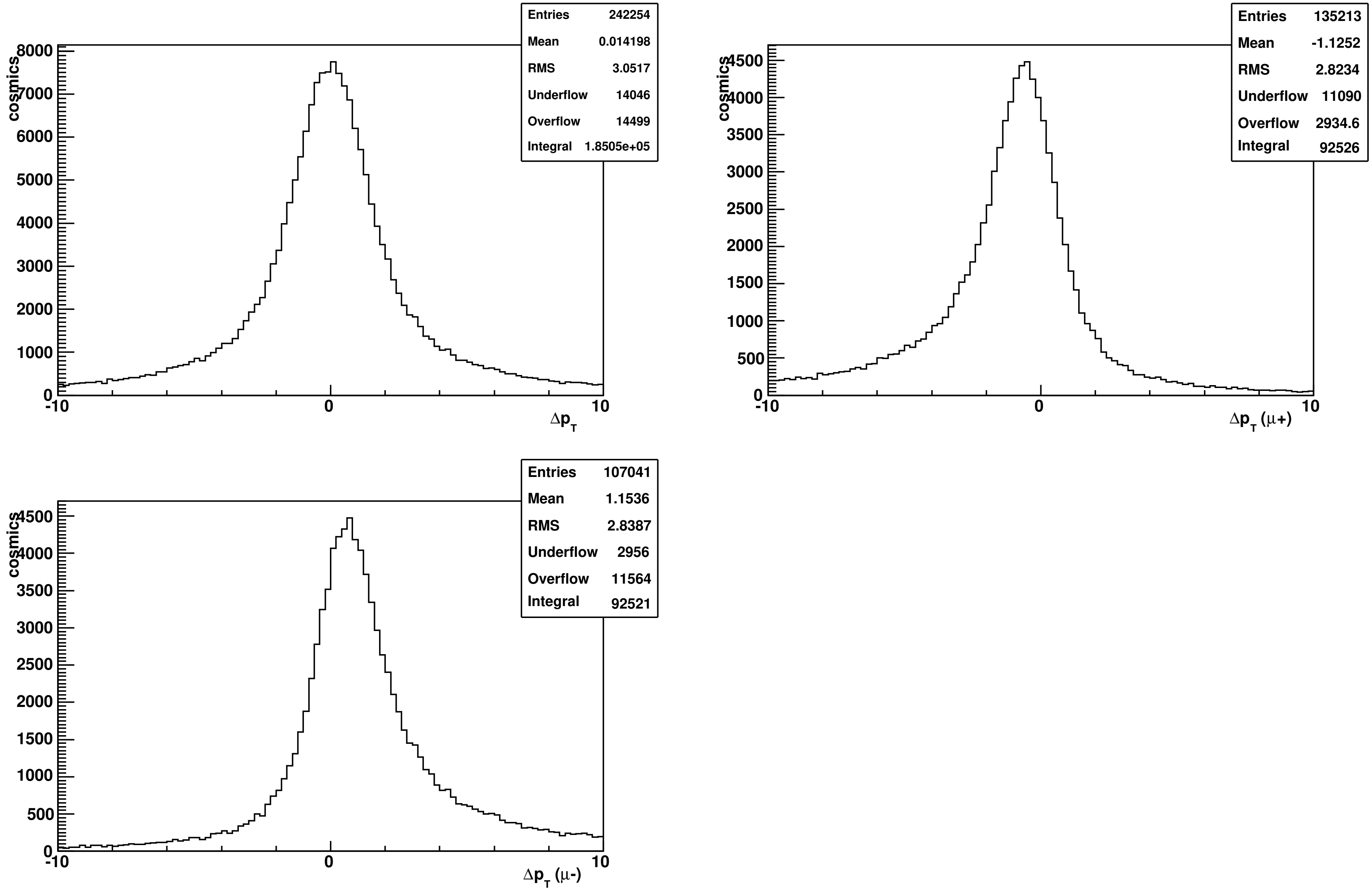

Entries 242254
Mean -1.0748
RMS 1.9539
Underflow 11.092
Overflow 15.88
Integral 2.1357e+05
cosmics
Δ(TeV/p_T)
Entries 242254
Mean 0.0080134
RMS 0.79952
Underflow 11.516
Overflow 5.728
Integral 2.1357e+05
cosmics
$\Delta\phi_0$ (mrad)
Entries 242254
Mean -87.979
RMS 312.82
Underflow 2.788
Overflow 5.364
Integral 2.1358e+05
cosmics
Δd_0 (μm)
Entries 242254
Mean 0.0025727
RMS 0.0045315
Underflow 1.788
Overflow 1
Integral 2.1356e+05
cosmics
$\Delta\cot\theta$
Entries 242254
Mean -0.0014469
RMS 0.39511
Underflow 7.94
Overflow 10.516
Integral 2.1358e+05
cosmics
Δz_0 (cm)
Entries 242254
Mean 0.050646
RMS 0.43941
Underflow 6.516
Overflow 8.516
Integral 2.1358e+05
cosmics
Δt_0 (ns)

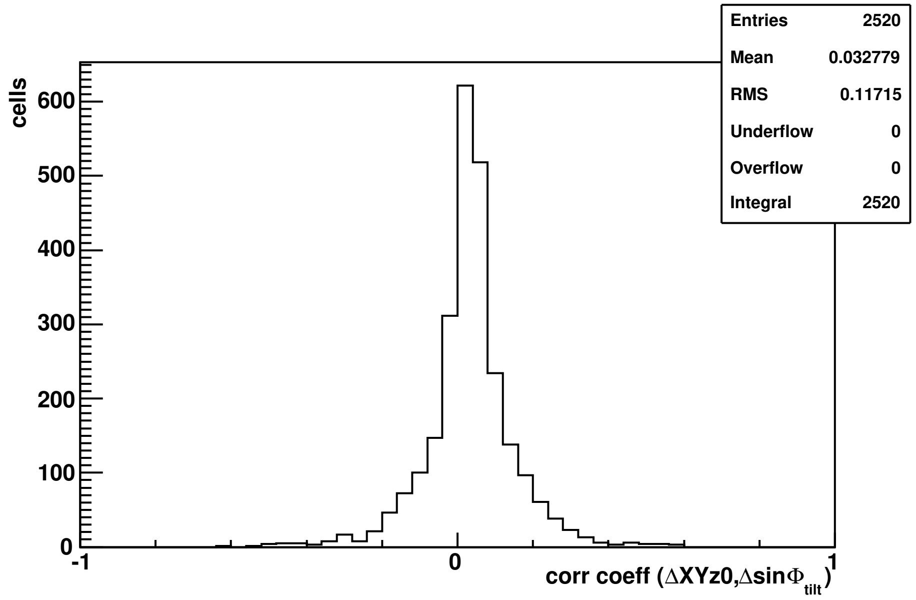

χ² / ndf 16.189 / 21
Prob 0.75894
p0 -1.3068 ± 0.0059
p1 -0.00011103 ± 0.00012728
p2 4.5694e-05 ± 8.3760e-07
p3 -5.1969e-08 ± 1.1218e-08
Δ(TeV/p_T)
z_0
χ² / ndf 42.532 / 19
Prob 0.0015014
p0 0.012142 ± 0.008005
p1 -0.0067158 ± 0.0095864
Δ φ_0 (mrad)
z_0
χ² / ndf 109.18 / 21
Prob 6.6172e-14
p0 -106.9 ± 0.9
p1 0.14728 ± 0.02052
p2 0.0037464 ± 0.0001361
p3 -2.2594e-05 ± 1.8240e-06
Δ d_0 (μm)
z_0
χ² / ndf 157.27 / 21
Prob 0
p0 0.0029969 ± 0.0000136
p1 2.4881e-06 ± 2.9649e-07
p2 -8.3511e-08 ± 1.9640e-09
p3 1.4764e-11 ± 2.6331e-11
Δ cotθ
z_0
Δ z_0 (cm)
z_0
Δ t_0 (ns)
z_0


χ² / ndf 0.51052 / 1
Prob 0.47491
p0 -1.1738 ± 0.0053
p1 -0.022789 ± 0.012364
p2 0.86888 ± 0.02720
Δ(TeV/p_T)
cotθ
χ² / ndf 8.8071 / 1
Prob 0.0030007
p0 0.011609 ± 0.002165
p1 -0.0054292 ± 0.0051600
p2 -0.031647 ± 0.011529
Δφ_0 (mrad)
cotθ
χ² / ndf 0.2628 / 1
Prob 0.6082
p0 -99.922 ± 0.846
p1 -1.781 ± 1.980
p2 104.55 ± 4.35
Δd_0 (μm)
cotθ
χ² / ndf 0.06697 / 1
Prob 0.7958
p0 0.0026871 ± 0.0000123
p1 -3.4323e-05 ± 2.8696e-05
p2 -0.00099967 ± 0.00006306
Δcotθ
cotθ
Δz_0 (cm)
cotθ
Δt_0 (ns)
cotθ

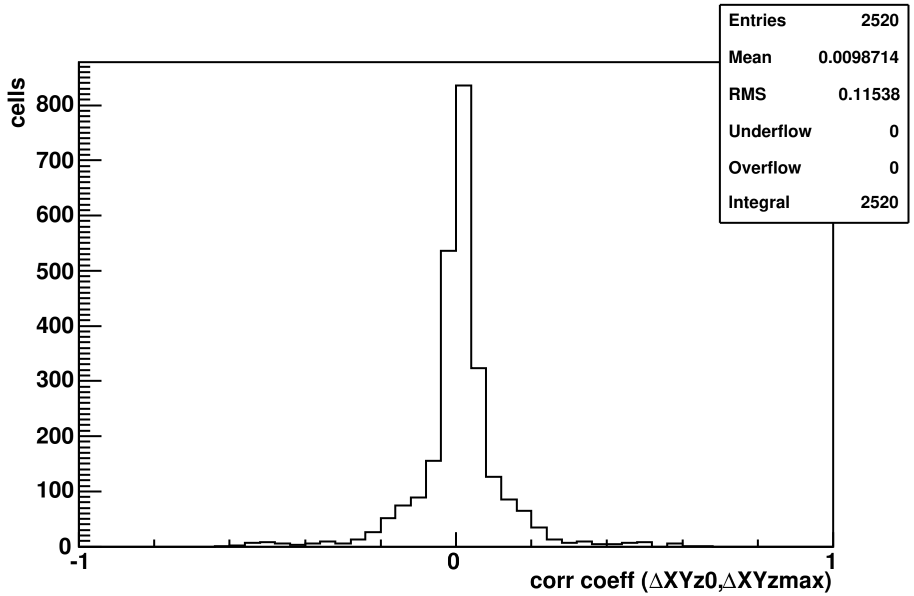

χ² / ndf 249.4 / 22
Prob 0
p0 0.055029 ± 0.016458
p1 0.03137 ± 0.00658
p2 -1.0353 ± 0.0126
Δ curv
φ0
χ² / ndf 69.414 / 22
Prob 8.176e-07
p0 -0.013681 ± 0.006697
p1 0.0088562 ± 0.0026744
p2 -0.0018204 ± 0.0051042
Δ φ0
χ² / ndf 232.7 / 22
Prob 0
p0 13.528 ± 2.634
p1 8.9588 ± 1.0496
p2 -78.134 ± 2.012
Δ d0
χ² / ndf 302.99 / 22
Prob 0
p0 0.00024018 ± 0.00003836
p1 -3.2399e-05 ± 1.5225e-05
p2 0.0027464 ± 0.0000294
Δ cotθ
χ² / ndf 334.86 / 22
Prob 0
p0 0.013175 ± 0.003341
p1 -0.022618 ± 0.001330
p2 0.0074784 ± 0.0025595
Δ z0
Δ t0



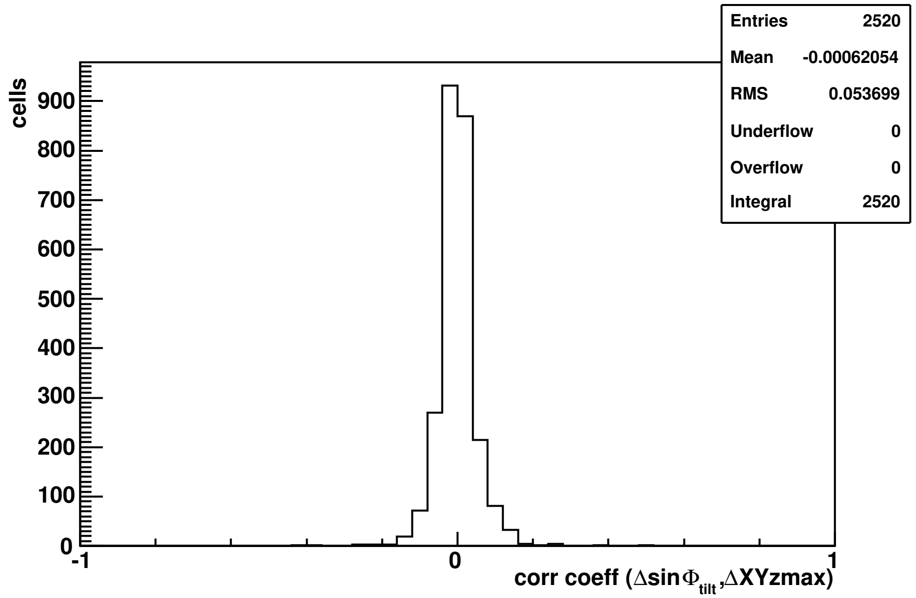
Entries 242254
Mean 0.014198
RMS 3.0517
Underflow 14046
Overflow 14499
Integral 1.8505e+05
cosmics
Δp_T
Entries 135213
Mean -1.1252
RMS 2.8234
Underflow 11090
Overflow 2934.6
Integral 92526
cosmics
Δp_T (μ+)
Entries 107041
Mean 1.1536
RMS 2.8387
Underflow 2956
Overflow 11564
Integral 92521
cosmics
Δp_T (μ-)



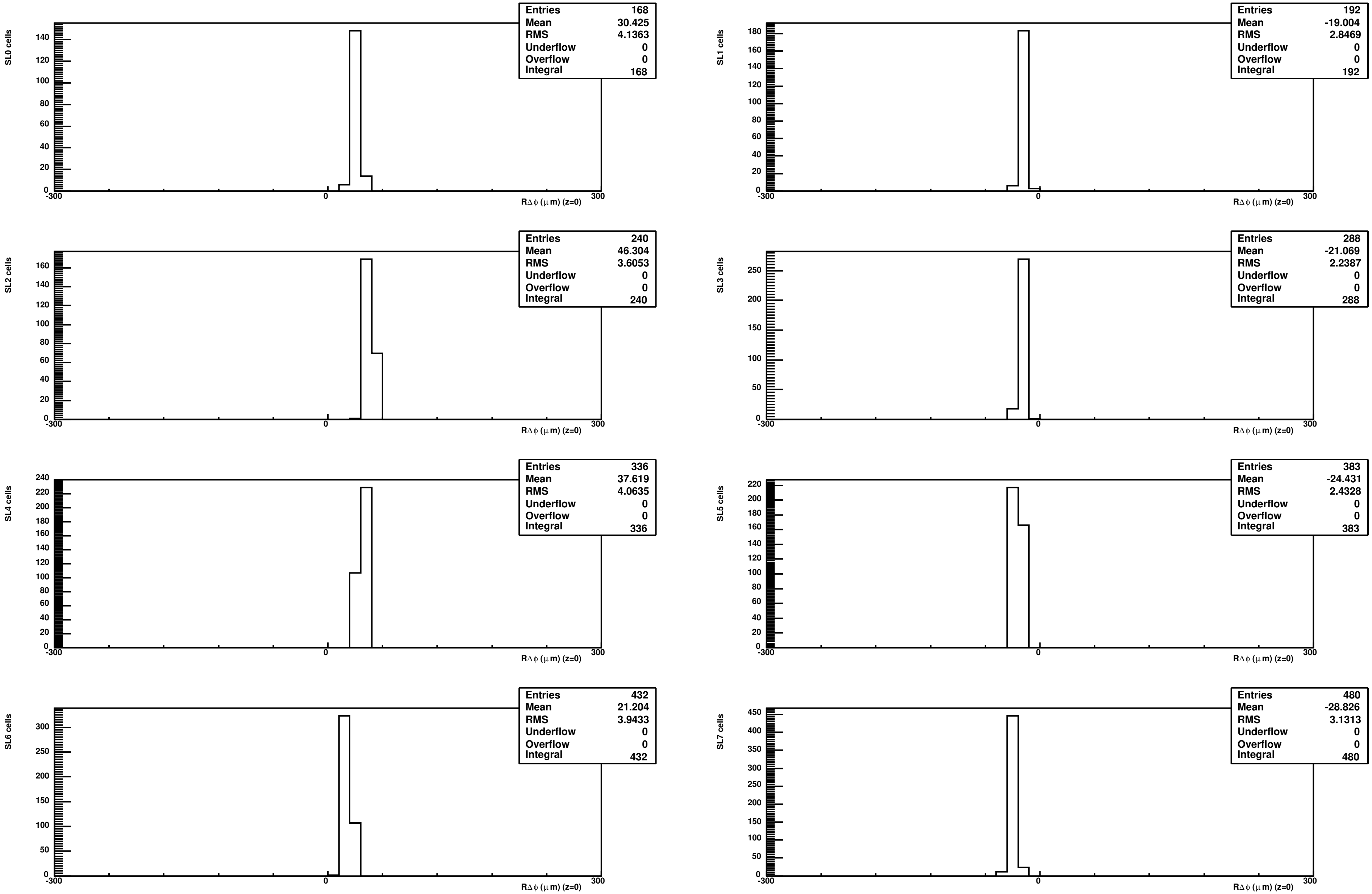
Entries 2520
Mean 0.032779
RMS 0.11715
Underflow 0
Overflow 0
Integral 2520
cells
600
500
400
300
200
100
0
-1
0
1
corr coeff (ΔXYz0,$\Delta\sin\Phi_{tilt}$)

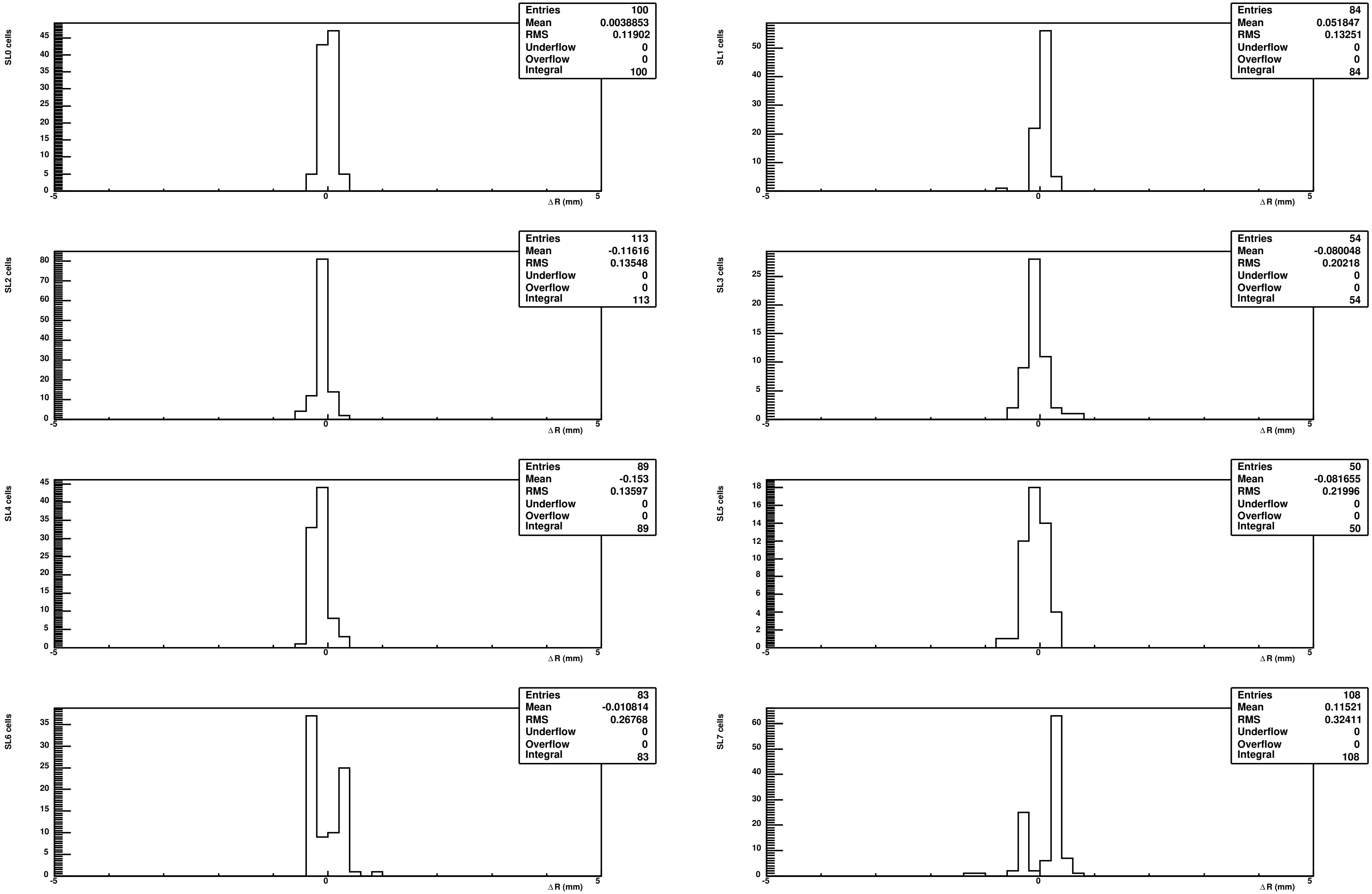


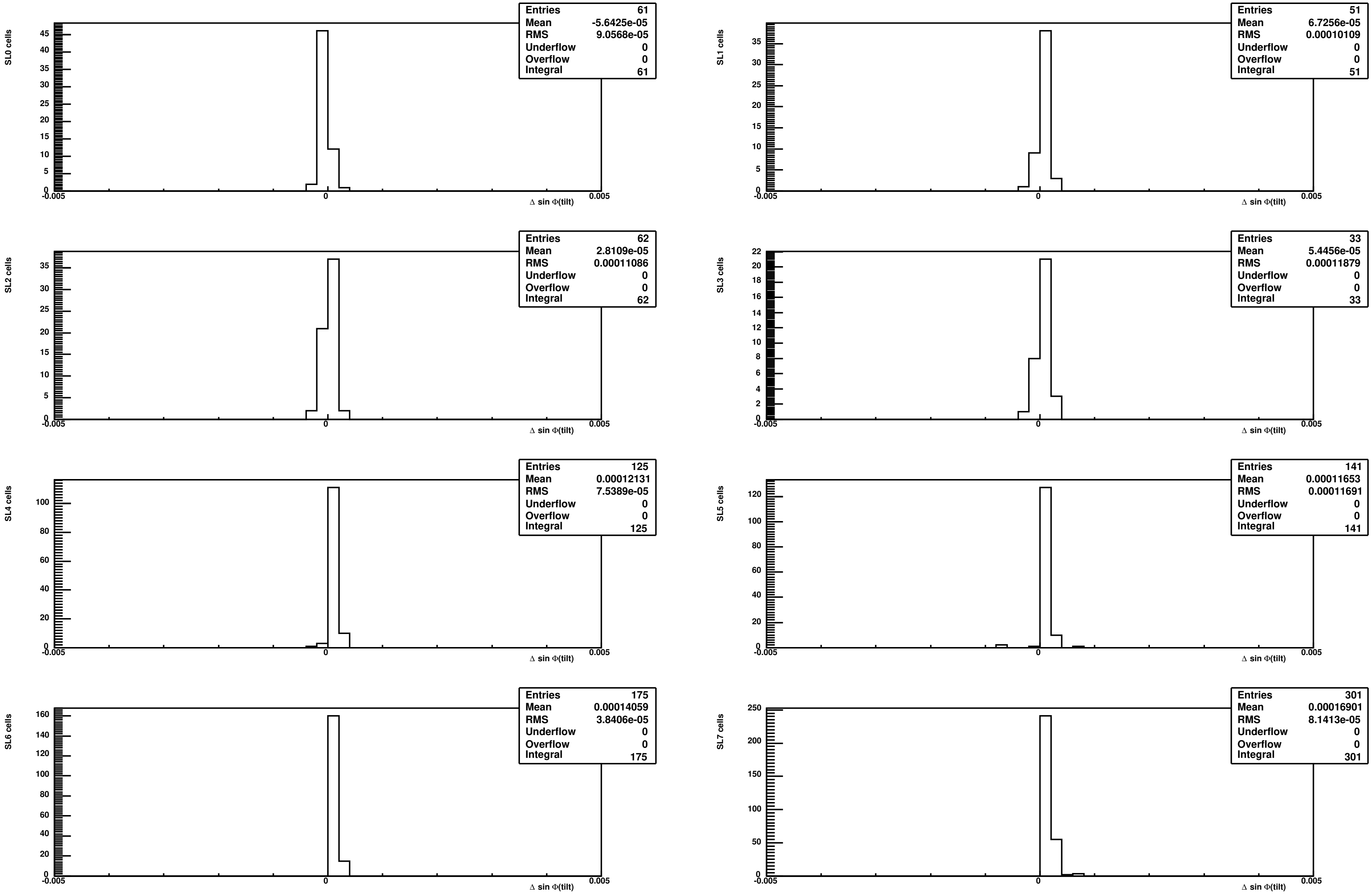
Entries 2520
Mean 0.0098714
RMS 0.11538
Underflow 0
Overflow 0
Integral 2520
cells
800
700
600
500
400
300
200
100
0
-1
0
1
corr coeff (ΔXYz0,ΔXYzmax)

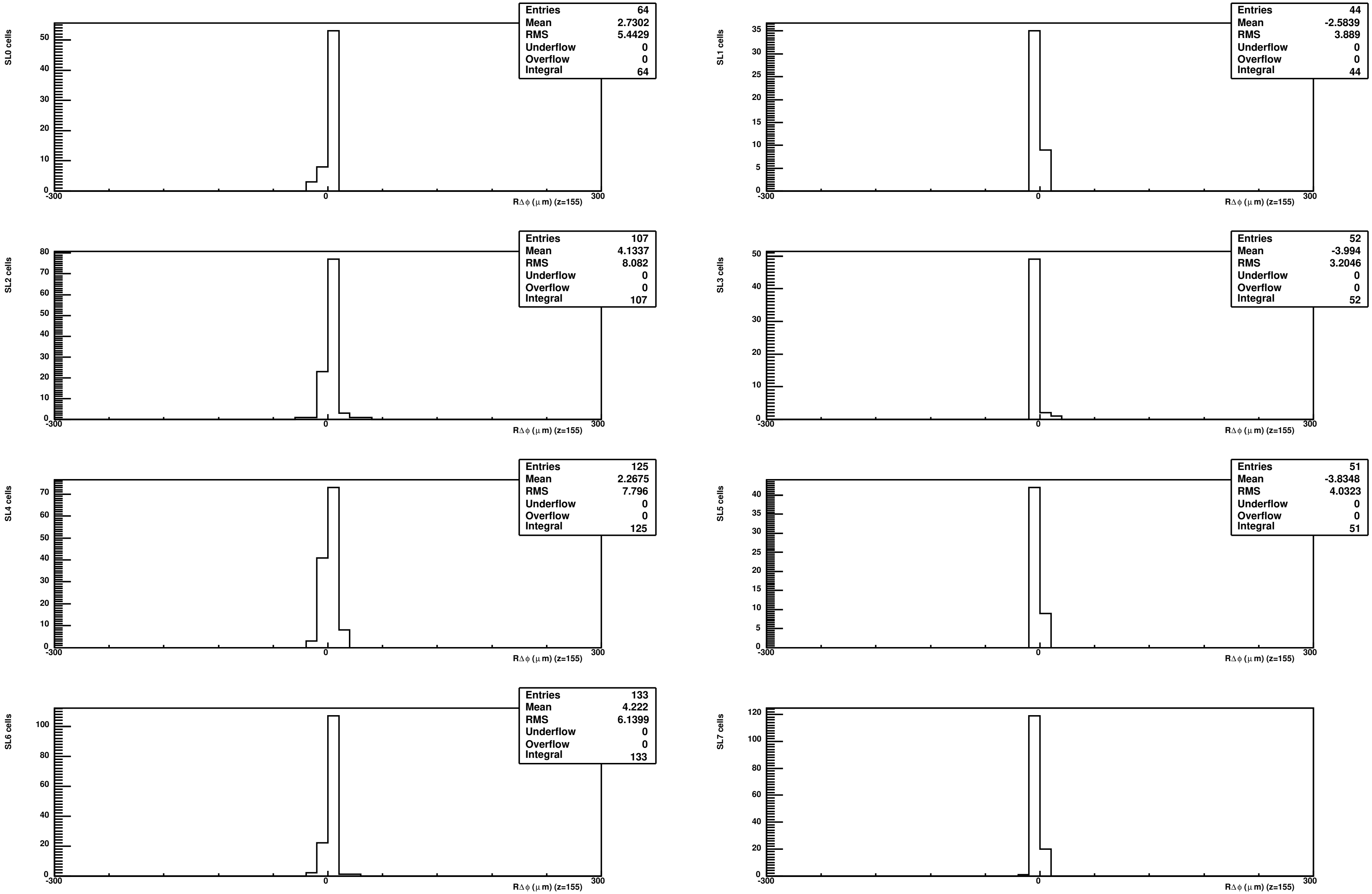


Entries 2520
Mean -0.00062054
RMS 0.053699
Underflow 0
Overflow 0
Integral 2520
cells
900
800
700
600
500
400
300
200
100
0
-1
0
1
corr coeff ($\Delta\sin\Phi_{tilt}$,ΔXYzmax)

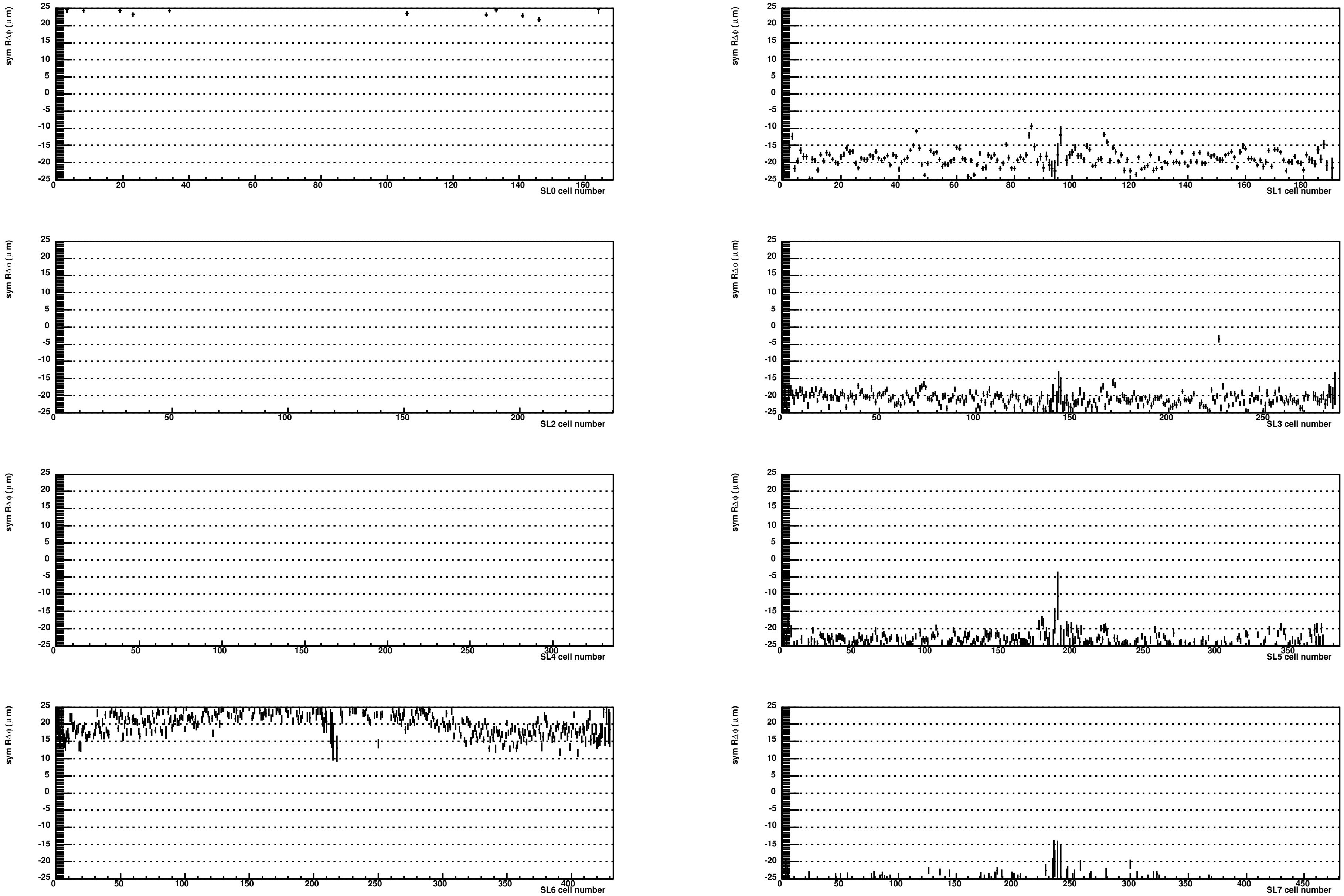

SL0 cells
Entries 168
Mean 30.425
RMS 4.1363
Underflow 0
Overflow 0
Integral 168
RΔφ (μm) (z=0)
SL1 cells
Entries 192
Mean -19.004
RMS 2.8469
Underflow 0
Overflow 0
Integral 192
RΔφ (μm) (z=0)
SL2 cells
Entries 240
Mean 46.304
RMS 3.6053
Underflow 0
Overflow 0
Integral 240
RΔφ (μm) (z=0)
SL3 cells
Entries 288
Mean -21.069
RMS 2.2387
Underflow 0
Overflow 0
Integral 288
RΔφ (μm) (z=0)
SL4 cells
Entries 336
Mean 37.619
RMS 4.0635
Underflow 0
Overflow 0
Integral 336
RΔφ (μm) (z=0)
SL5 cells
Entries 383
Mean -24.431
RMS 2.4328
Underflow 0
Overflow 0
Integral 383
RΔφ (μm) (z=0)
SL6 cells
Entries 432
Mean 21.204
RMS 3.9433
Underflow 0
Overflow 0
Integral 432
RΔφ (μm) (z=0)
SL7 cells
Entries 480
Mean -28.826
RMS 3.1313
Underflow 0
Overflow 0
Integral 480
RΔφ (μm) (z=0)


SL0 cells
Entries 100
Mean 0.0038853
RMS 0.11902
Underflow 0
Overflow 0
Integral 100
ΔR (mm)
SL1 cells
Entries 84
Mean 0.051847
RMS 0.13251
Underflow 0
Overflow 0
Integral 84
ΔR (mm)
SL2 cells
Entries 113
Mean -0.11616
RMS 0.13548
Underflow 0
Overflow 0
Integral 113
ΔR (mm)
SL3 cells
Entries 54
Mean -0.080048
RMS 0.20218
Underflow 0
Overflow 0
Integral 54
ΔR (mm)
SL4 cells
Entries 89
Mean -0.153
RMS 0.13597
Underflow 0
Overflow 0
Integral 89
ΔR (mm)
SL5 cells
Entries 50
Mean -0.081655
RMS 0.21996
Underflow 0
Overflow 0
Integral 50
ΔR (mm)
SL6 cells
Entries 83
Mean -0.010814
RMS 0.26768
Underflow 0
Overflow 0
Integral 83
ΔR (mm)
SL7 cells
Entries 108
Mean 0.11521
RMS 0.32411
Underflow 0
Overflow 0
Integral 108
ΔR (mm)

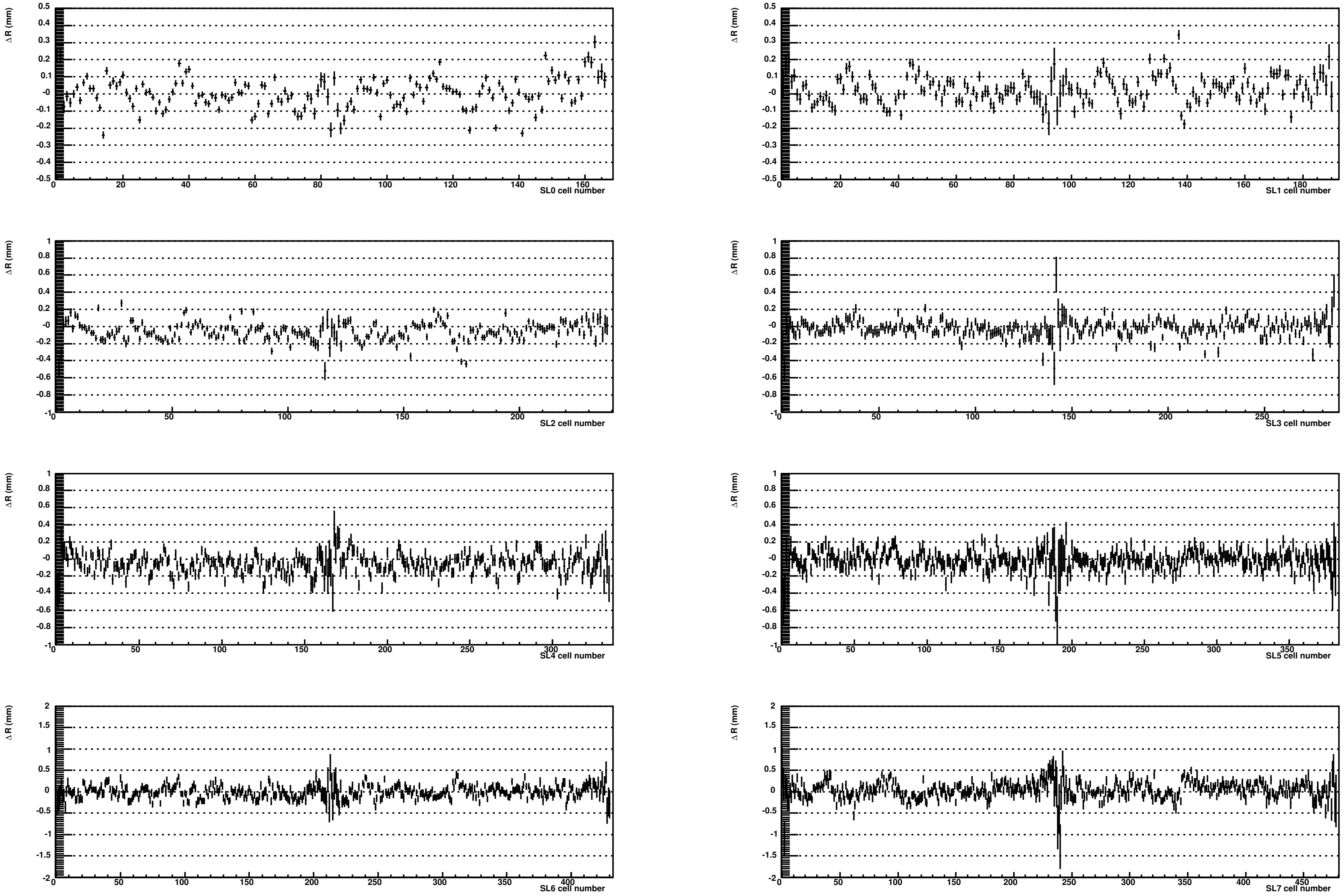

SL0 cells
Entries 61
Mean -5.6425e-05
RMS 9.0568e-05
Underflow 0
Overflow 0
Integral 61
SL1 cells
Entries 51
Mean 6.7256e-05
RMS 0.00010109
Underflow 0
Overflow 0
Integral 51
SL2 cells
Entries 62
Mean 2.8109e-05
RMS 0.00011086
Underflow 0
Overflow 0
Integral 62
SL3 cells
Entries 33
Mean 5.4456e-05
RMS 0.00011879
Underflow 0
Overflow 0
Integral 33
SL4 cells
Entries 125
Mean 0.00012131
RMS 7.5389e-05
Underflow 0
Overflow 0
Integral 125
SL5 cells
Entries 141
Mean 0.00011653
RMS 0.00011691
Underflow 0
Overflow 0
Integral 141
SL6 cells
Entries 175
Mean 0.00014059
RMS 3.8406e-05
Underflow 0
Overflow 0
Integral 175
SL7 cells
Entries 301
Mean 0.00016901
RMS 8.1413e-05
Underflow 0
Overflow 0
Integral 301
Δ sin Φ(tilt)
-0.005
0
0.005



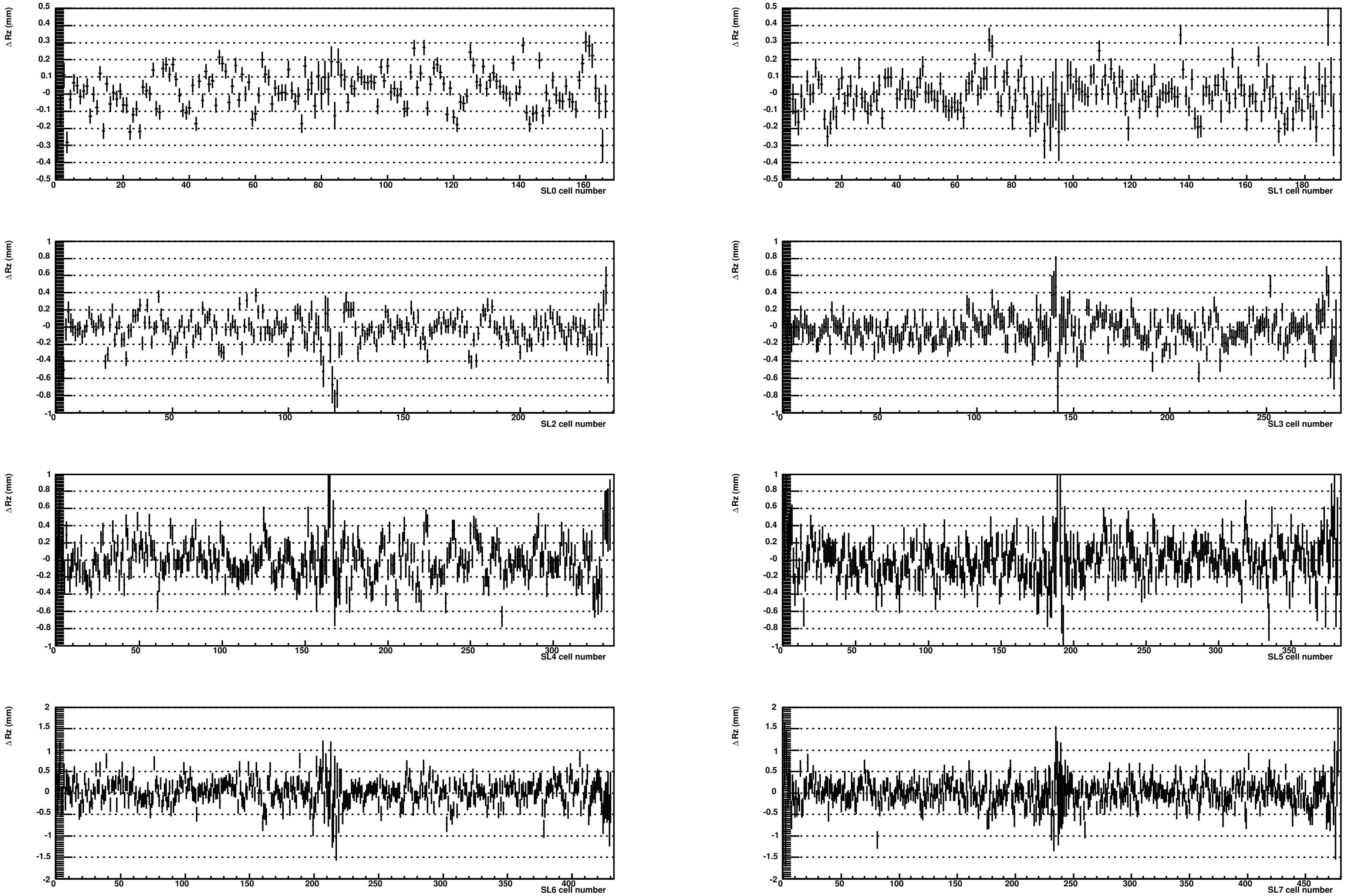
Entries 64
Mean 2.7302
RMS 5.4429
Underflow 0
Overflow 0
Integral 64
SL0 cells
RΔφ (μm) (z=155)
Entries 44
Mean -2.5839
RMS 3.889
Underflow 0
Overflow 0
Integral 44
SL1 cells
RΔφ (μm) (z=155)
Entries 107
Mean 4.1337
RMS 8.082
Underflow 0
Overflow 0
Integral 107
SL2 cells
RΔφ (μm) (z=155)
Entries 52
Mean -3.994
RMS 3.2046
Underflow 0
Overflow 0
Integral 52
SL3 cells
RΔφ (μm) (z=155)
Entries 125
Mean 2.2675
RMS 7.796
Underflow 0
Overflow 0
Integral 125
SL4 cells
RΔφ (μm) (z=155)
Entries 51
Mean -3.8348
RMS 4.0323
Underflow 0
Overflow 0
Integral 51
SL5 cells
RΔφ (μm) (z=155)
Entries 133
Mean 4.222
RMS 6.1399
Underflow 0
Overflow 0
Integral 133
SL6 cells
RΔφ (μm) (z=155)
SL7 cells
RΔφ (μm) (z=155)



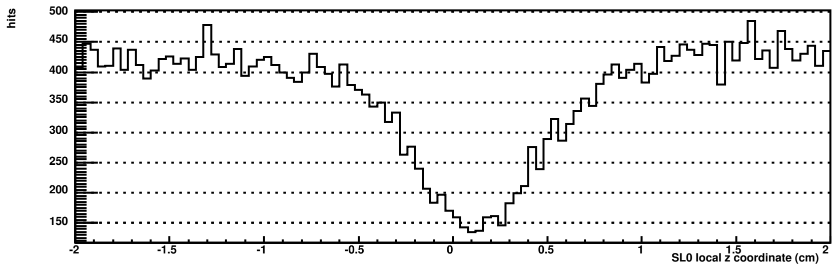
sym RΔφ (μm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

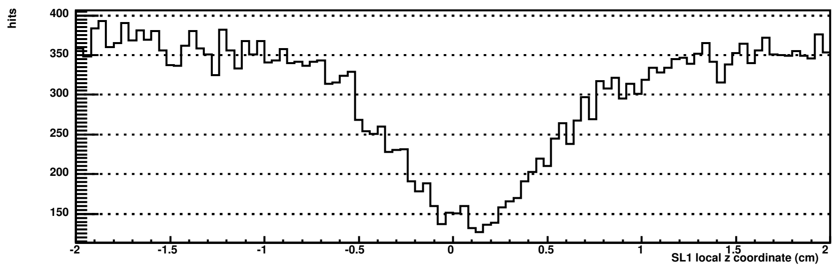


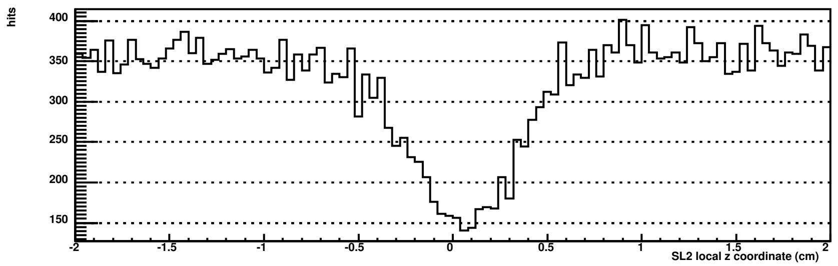
Δ R (mm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

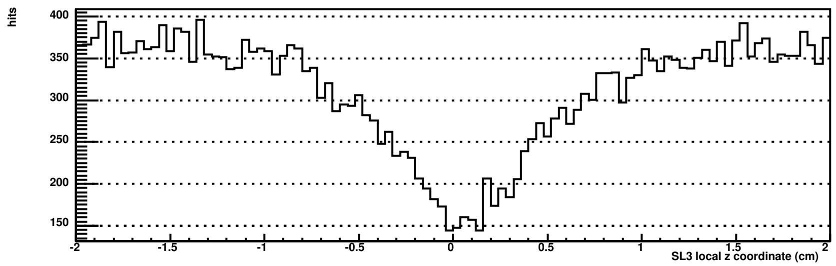


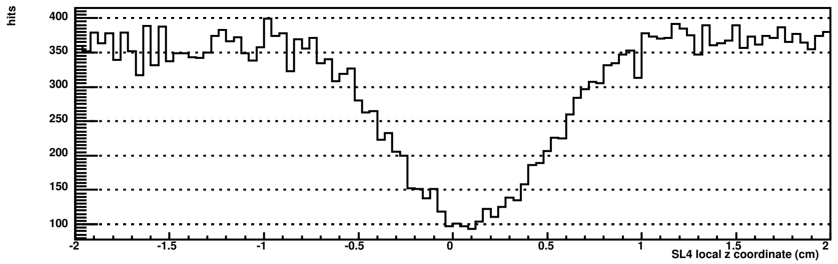
Δ Rz (mm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

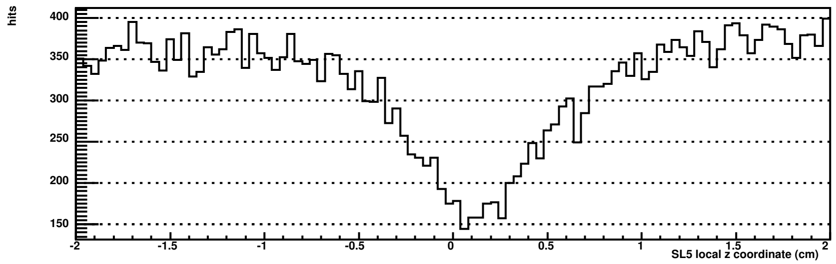

hits
SL0 local z coordinate (cm)

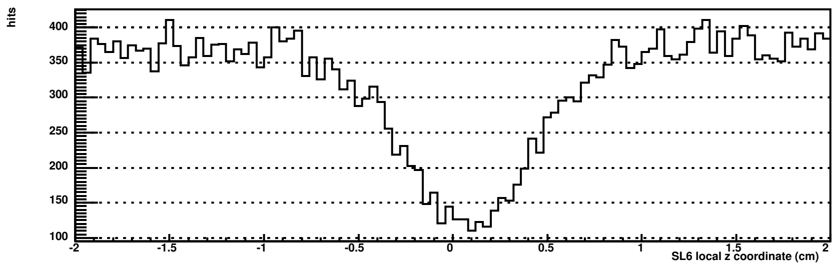

hits
SL1 local z coordinate (cm)

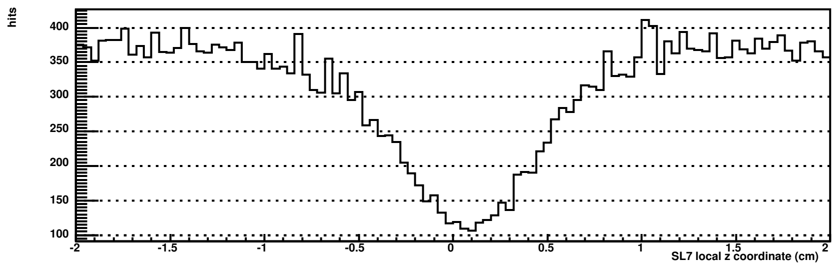

hits
SL2 local z coordinate (cm)

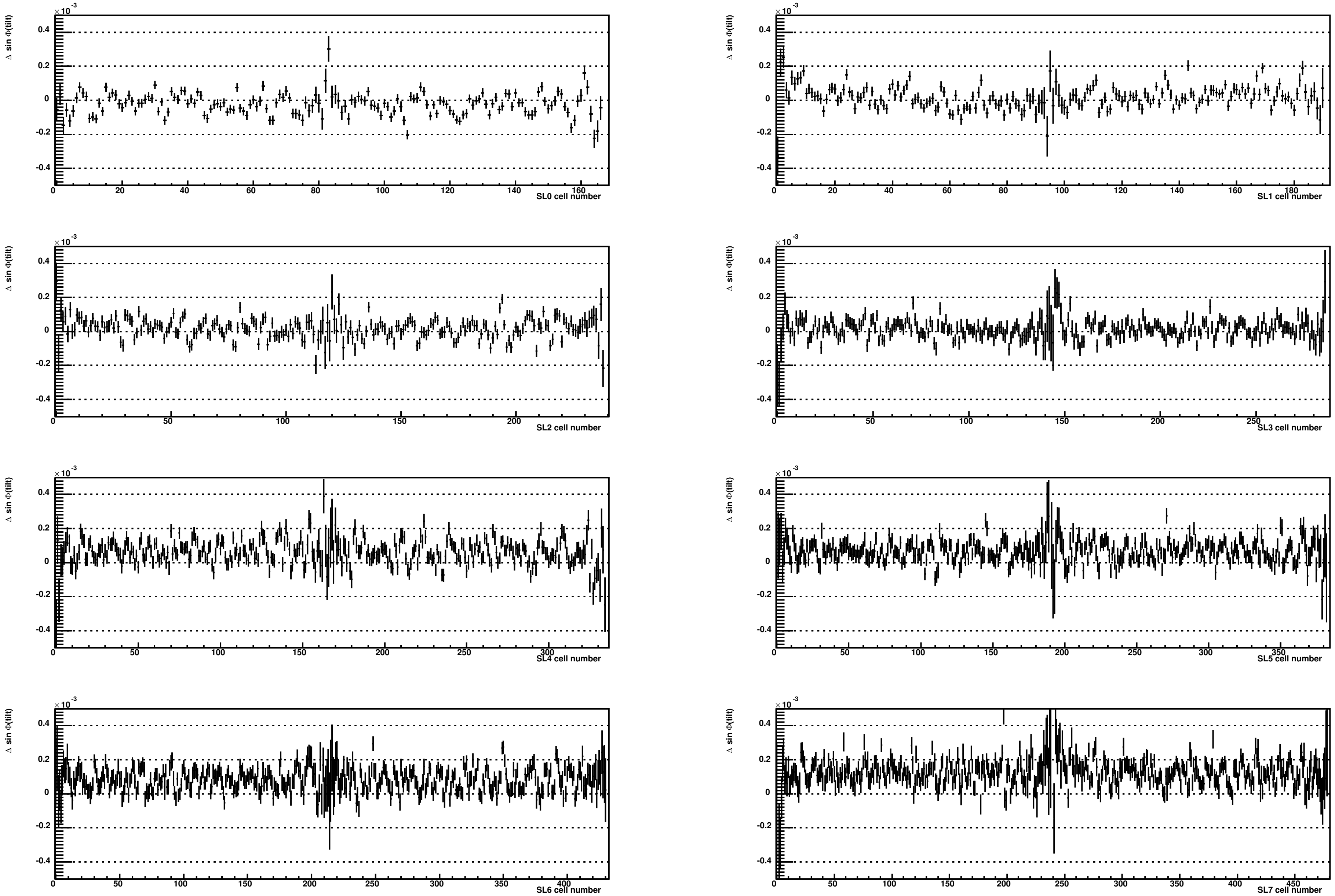

hits
SL3 local z coordinate (cm)

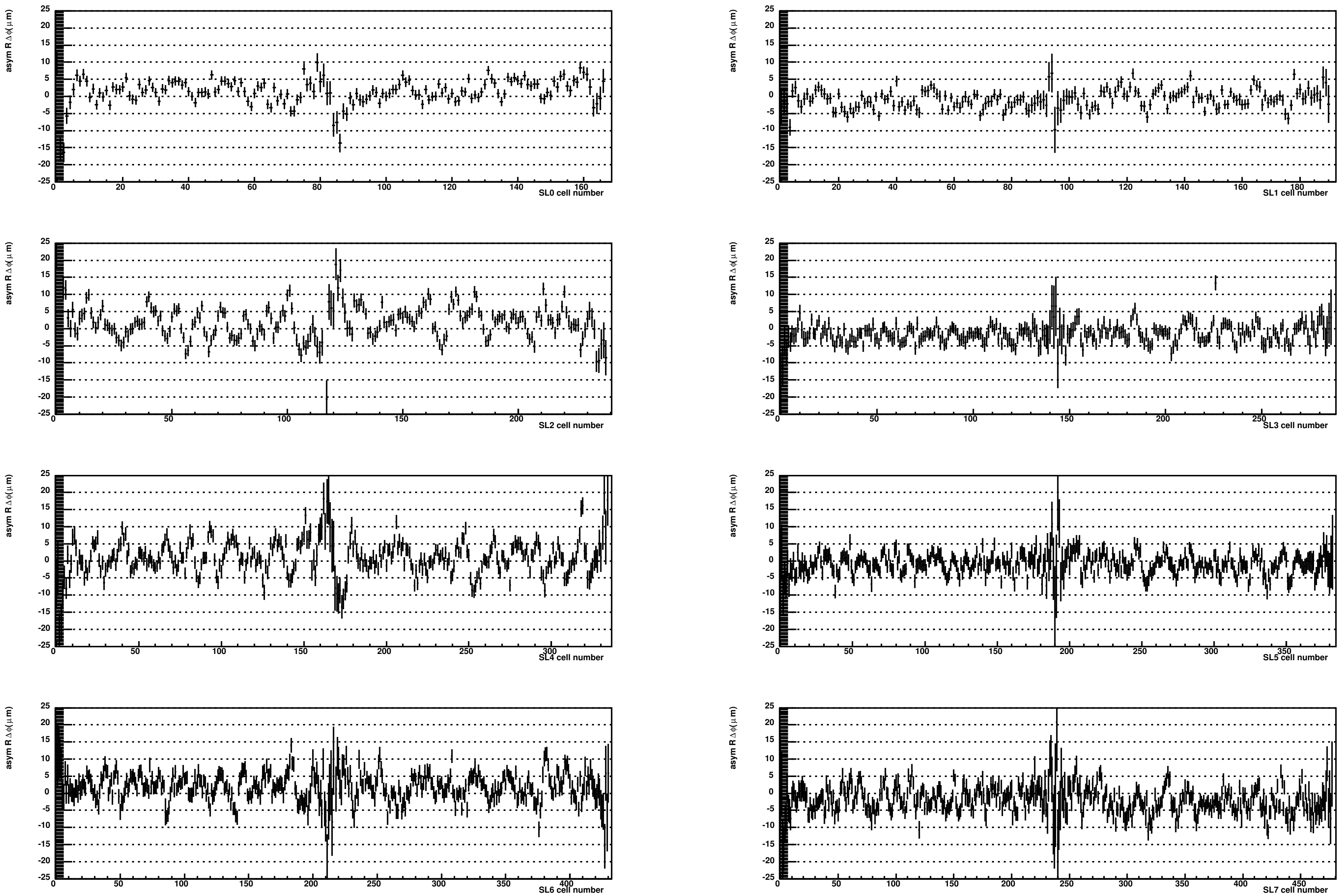

hits
SL4 local z coordinate (cm)

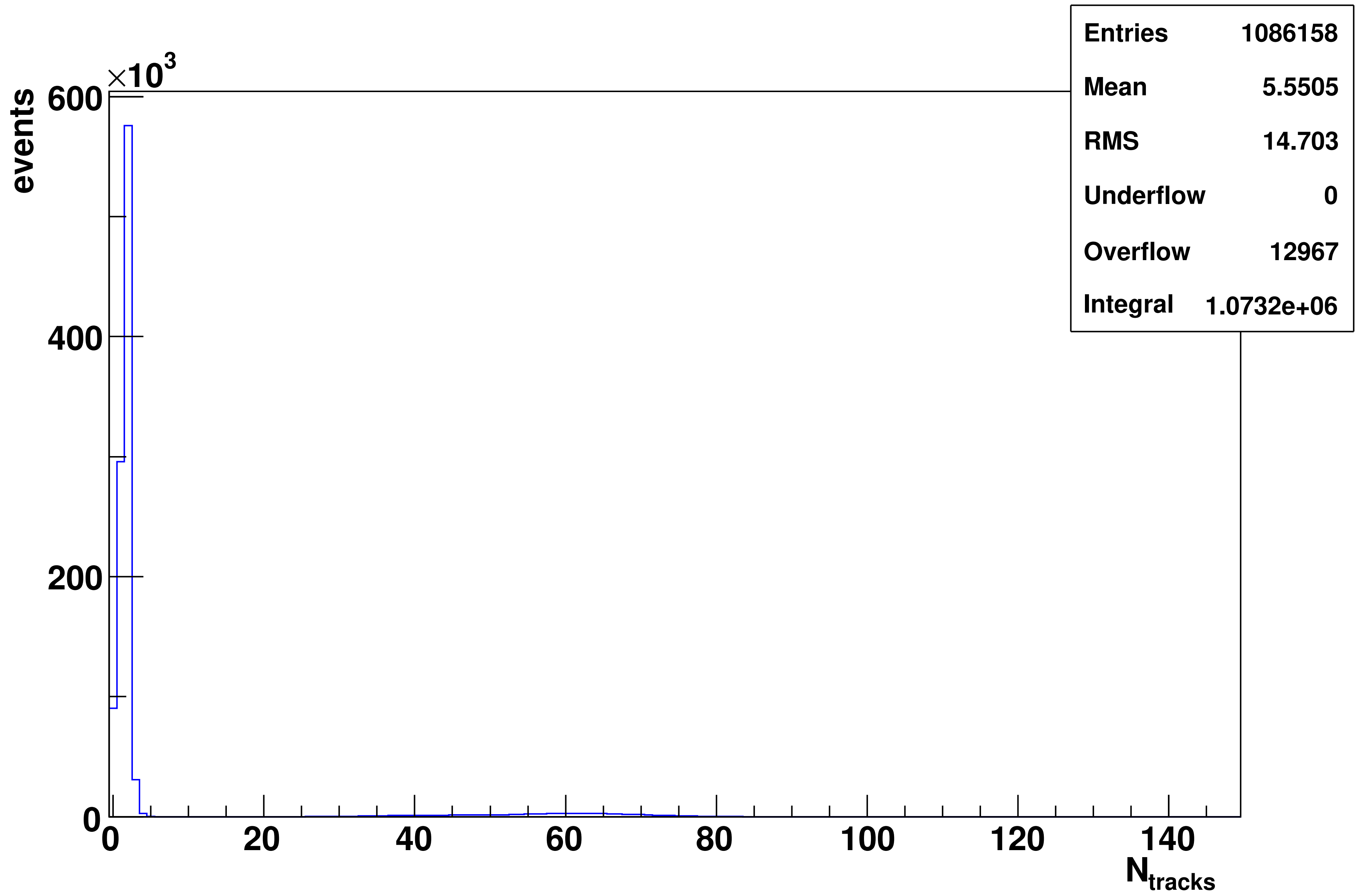

hits
SL5 local z coordinate (cm)


hits
SL6 local z coordinate (cm)

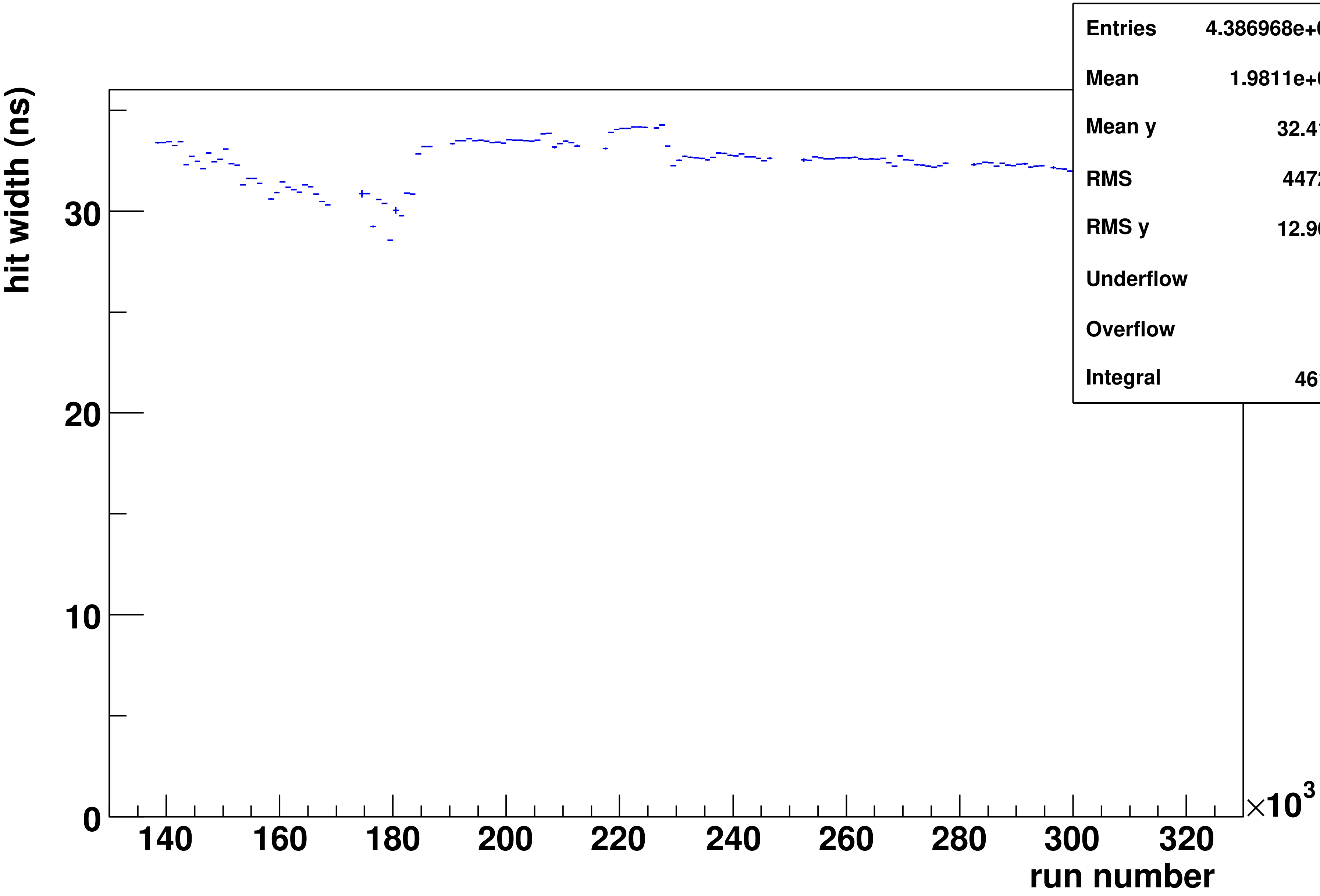

hits
SL7 local z coordinate (cm)


Δ sin Φ(tilt)
×10^-3
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

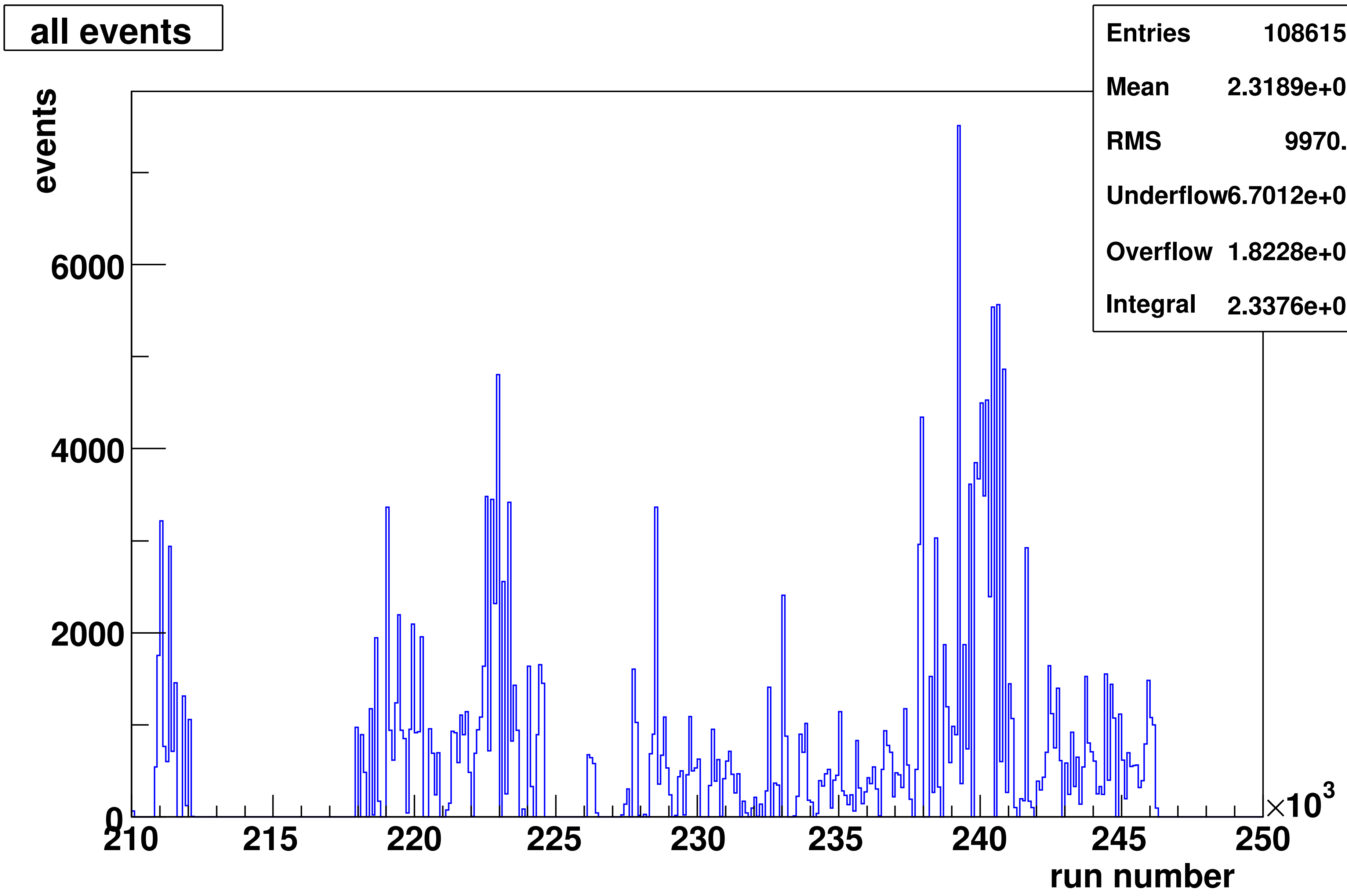

asym R Δφ(μm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

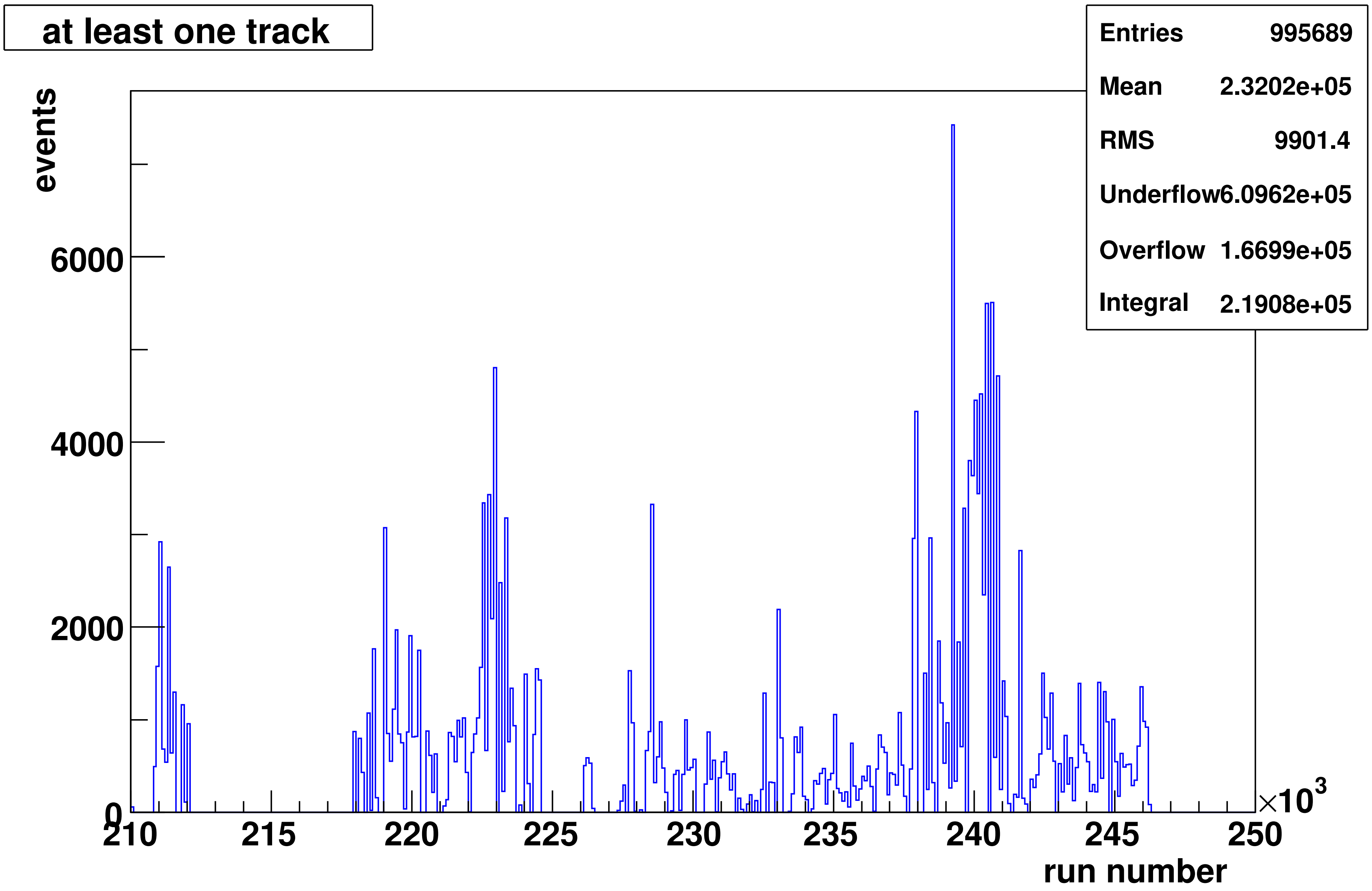


Entries 1086158
Mean 5.5505
RMS 14.703
Underflow 0
Overflow 12967
Integral 1.0732e+06
×10³
events
0
200
400
600
0
20
40
60
80
100
120
140
N_tracks

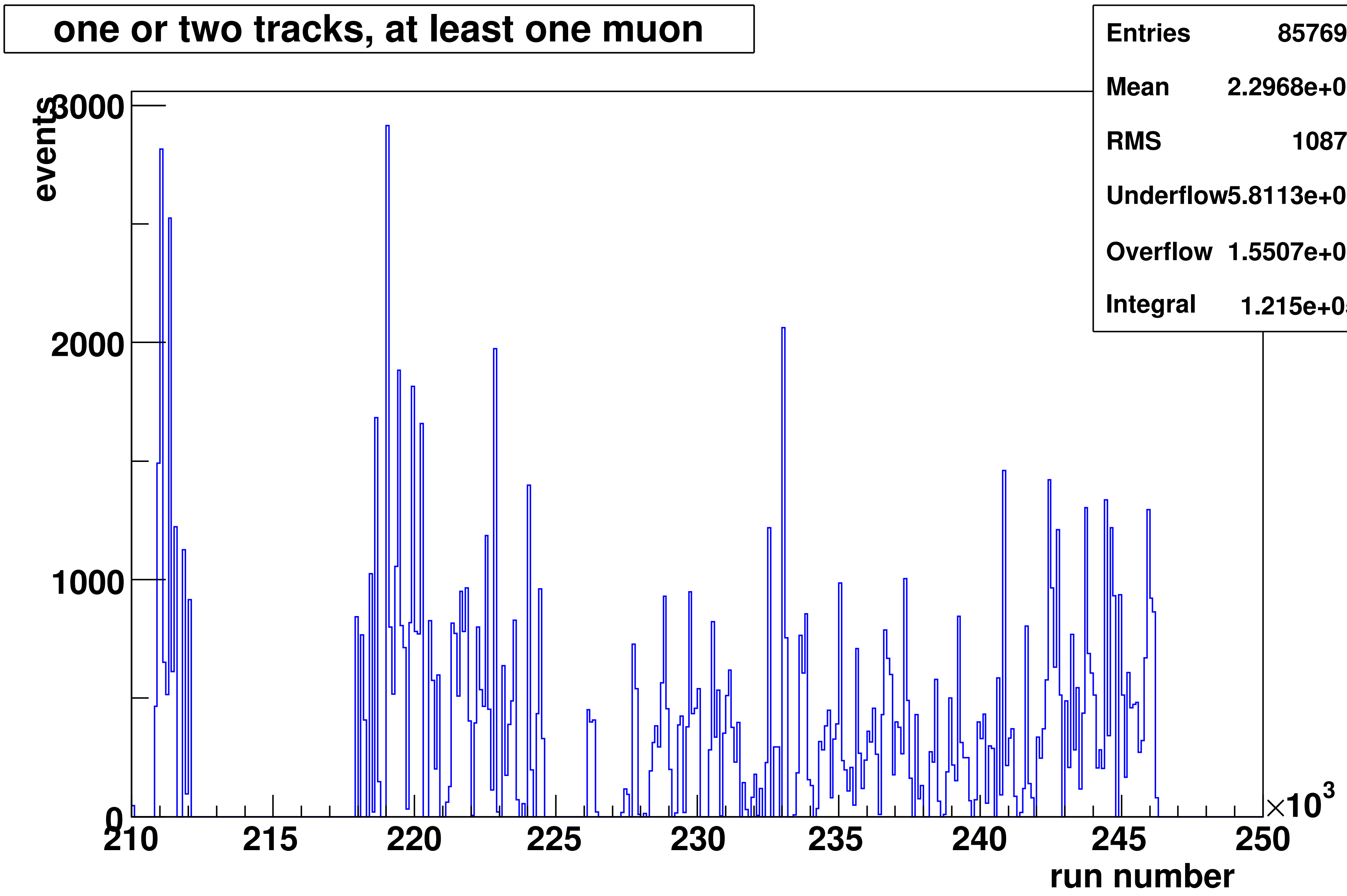


Entries 4.386968e+07
Mean 1.9811e+05
Mean y 32.419
RMS 44725
RMS y 12.902
Underflow 0
Overflow 0
Integral 4613
hit width (ns)
0
10
20
30
140
160
180
200
220
240
260
280
300
320
×10^3
run number

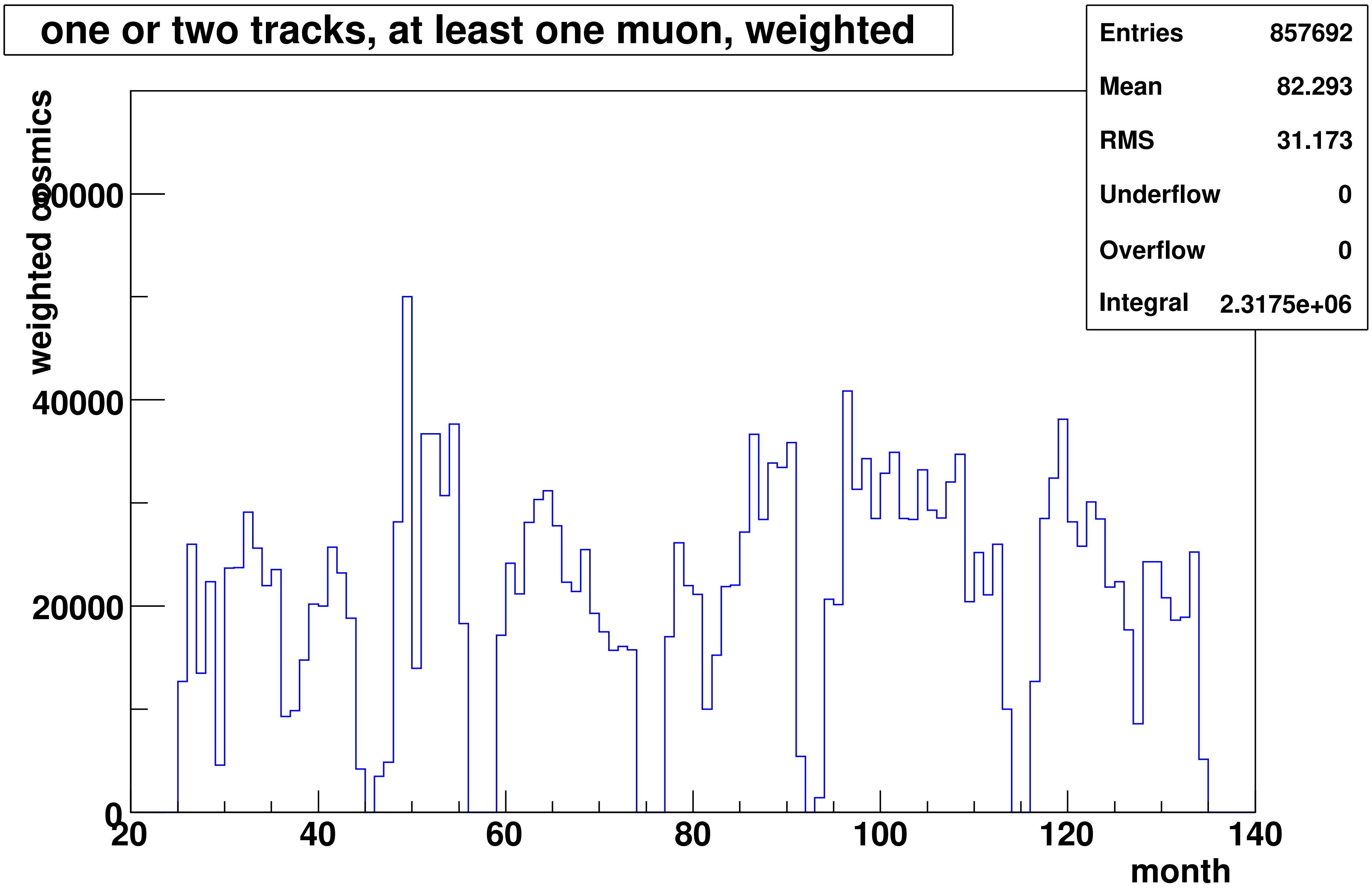

all events
events
Entries 1086158
Mean 2.3189e+05
RMS 9970.3
Underflow 6.7012e+05
Overflow 1.8228e+05
Integral 2.3376e+05
6000
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number



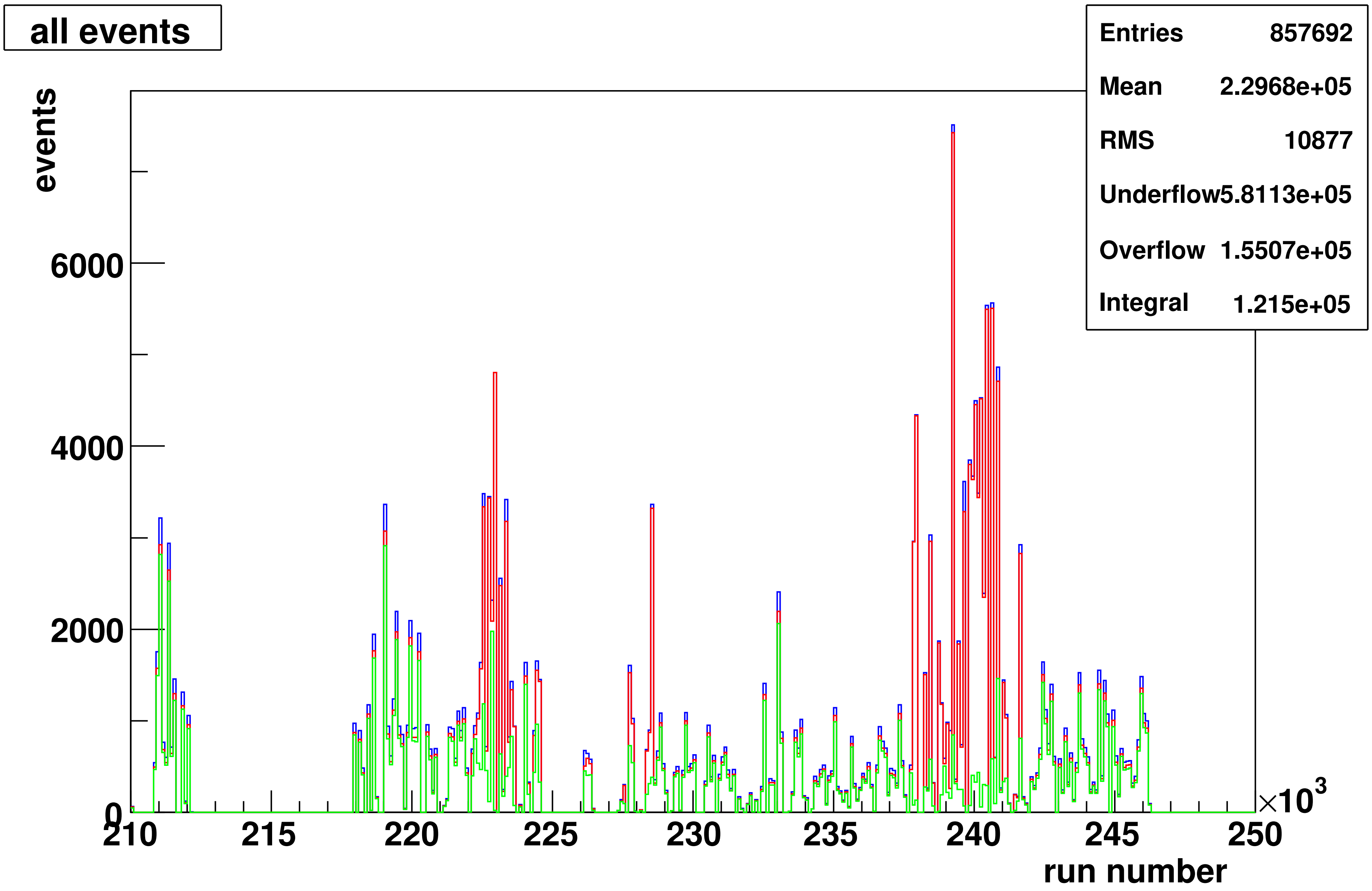
at least one track
Entries 995689
Mean 2.3202e+05
RMS 9901.4
Underflow 6.0962e+05
Overflow 1.6699e+05
Integral 2.1908e+05
events
0
2000
4000
6000
210
215
220
225
230
235
240
245
250
×10^3
run number

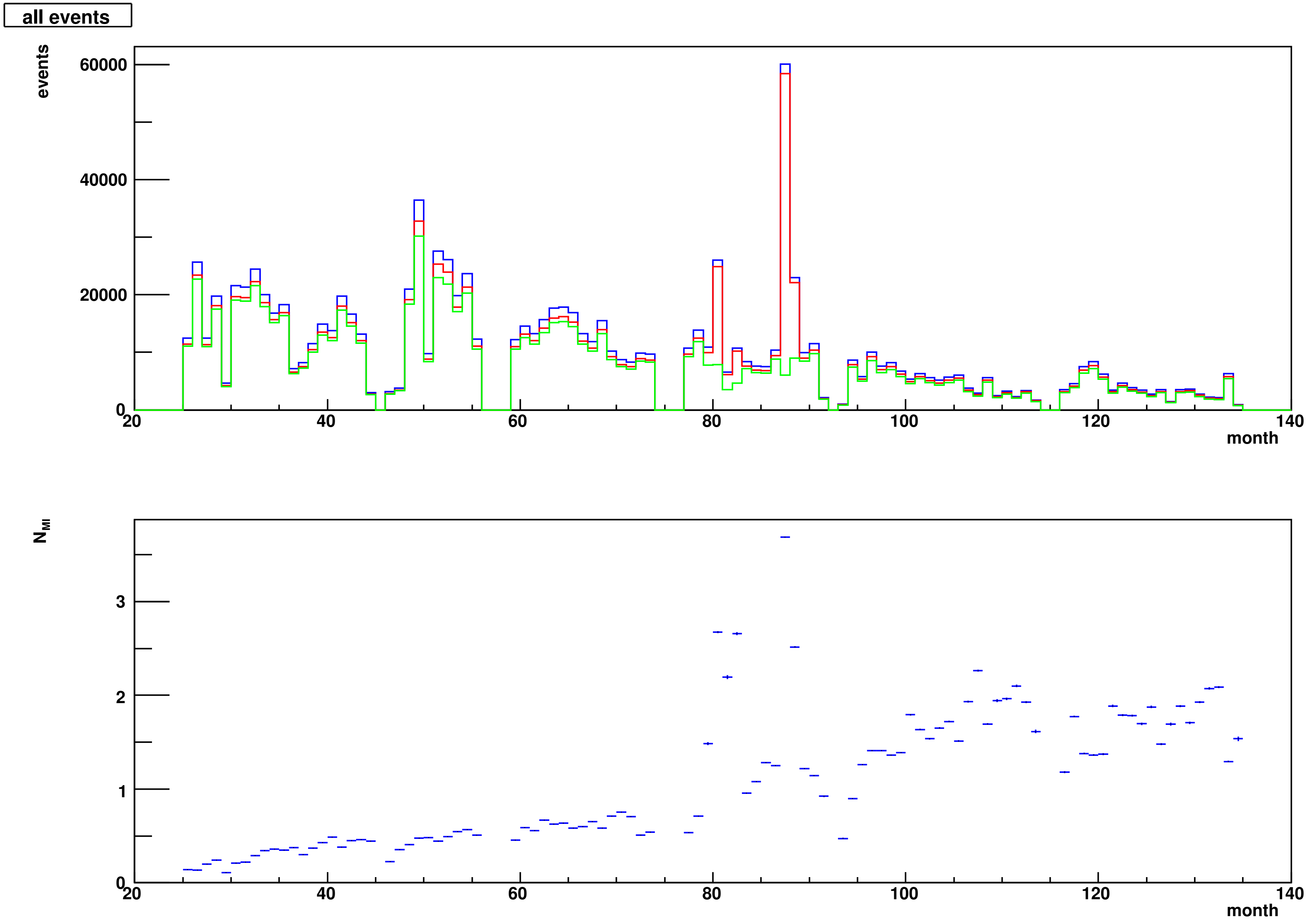


one or two tracks, at least one muon
Entries 857692
Mean 2.2968e+05
RMS 10877
Underflow 5.8113e+05
Overflow 1.5507e+05
Integral 1.215e+05
events
0
1000
2000
3000
210
215
220
225
230
235
240
245
250
×10³
run number

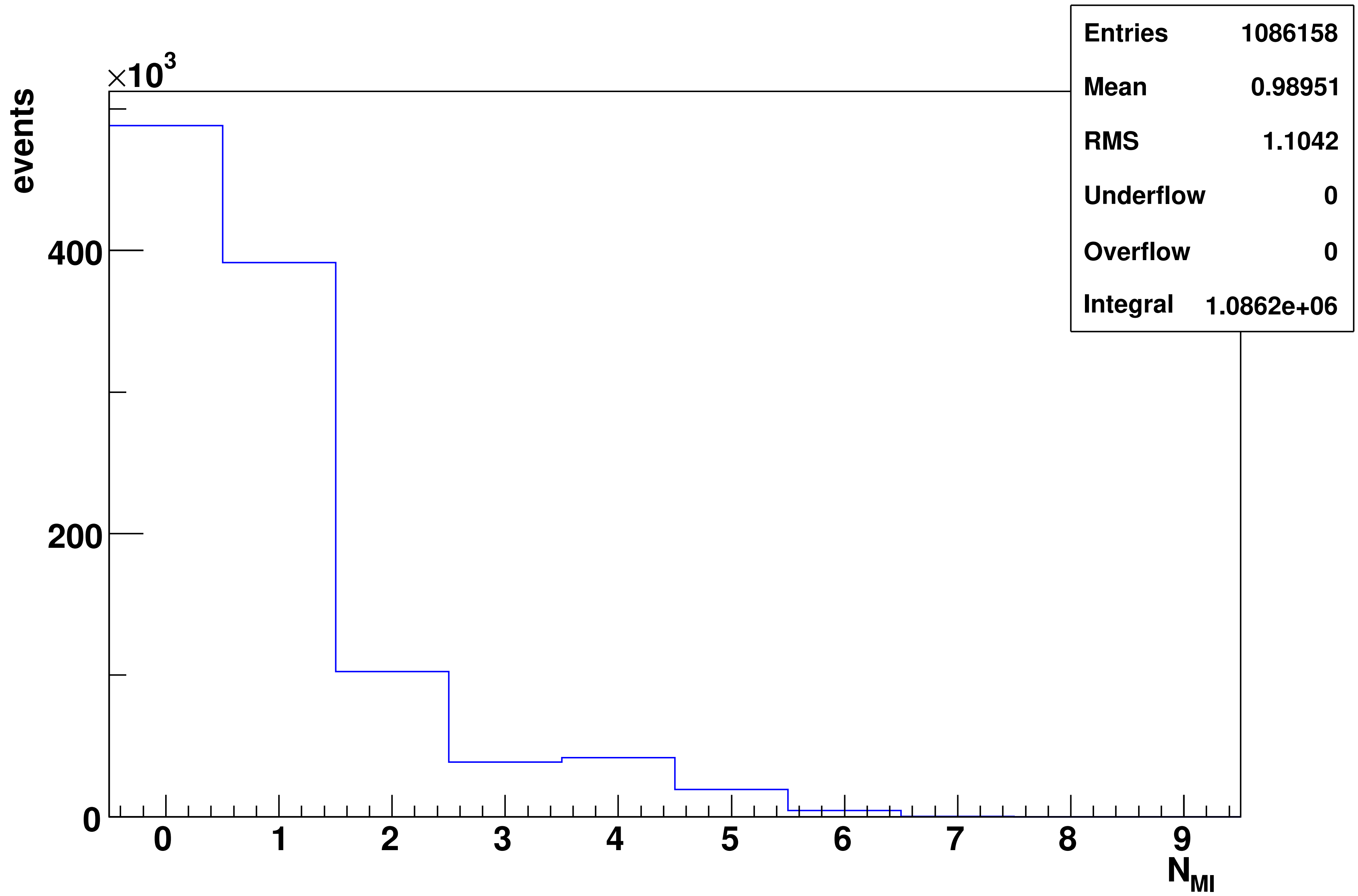


one or two tracks, at least one muon, weighted
Entries 857692
Mean 82.293
RMS 31.173
Underflow 0
Overflow 0
Integral 2.3175e+06
weighted cosmics
0
20000
40000
60000
20
40
60
80
100
120
140
month

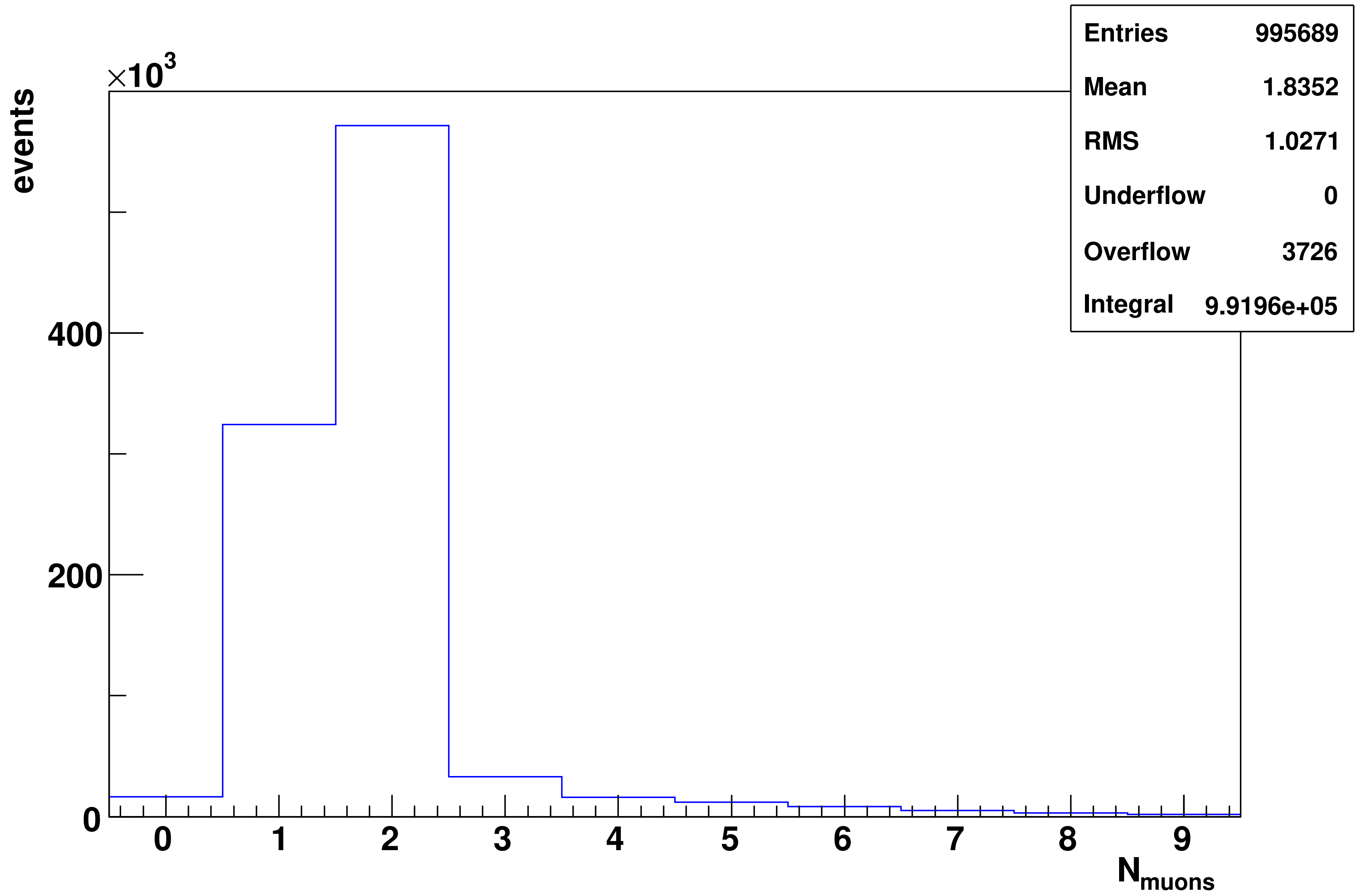

all events
Entries 857692
Mean 2.2968e+05
RMS 10877
Underflow5.8113e+05
Overflow 1.5507e+05
Integral 1.215e+05
events
0
2000
4000
6000
210
215
220
225
230
235
240
245
250
×10^3
run number

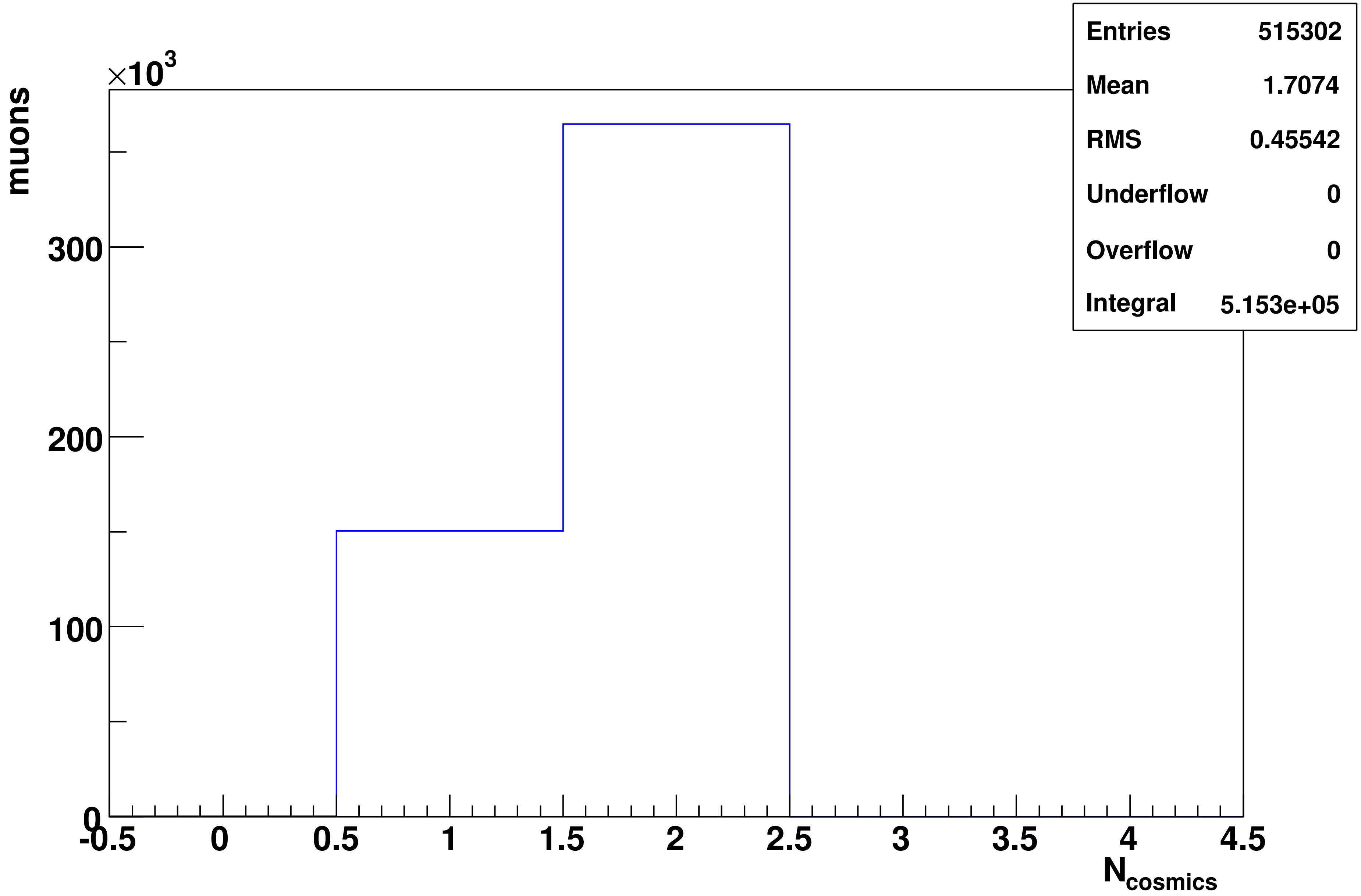


all events
events
60000
40000
20000
0
20
40
60
80
100
120
140
month
N_{MI}
3
2
1
0
20
40
60
80
100
120
140
month

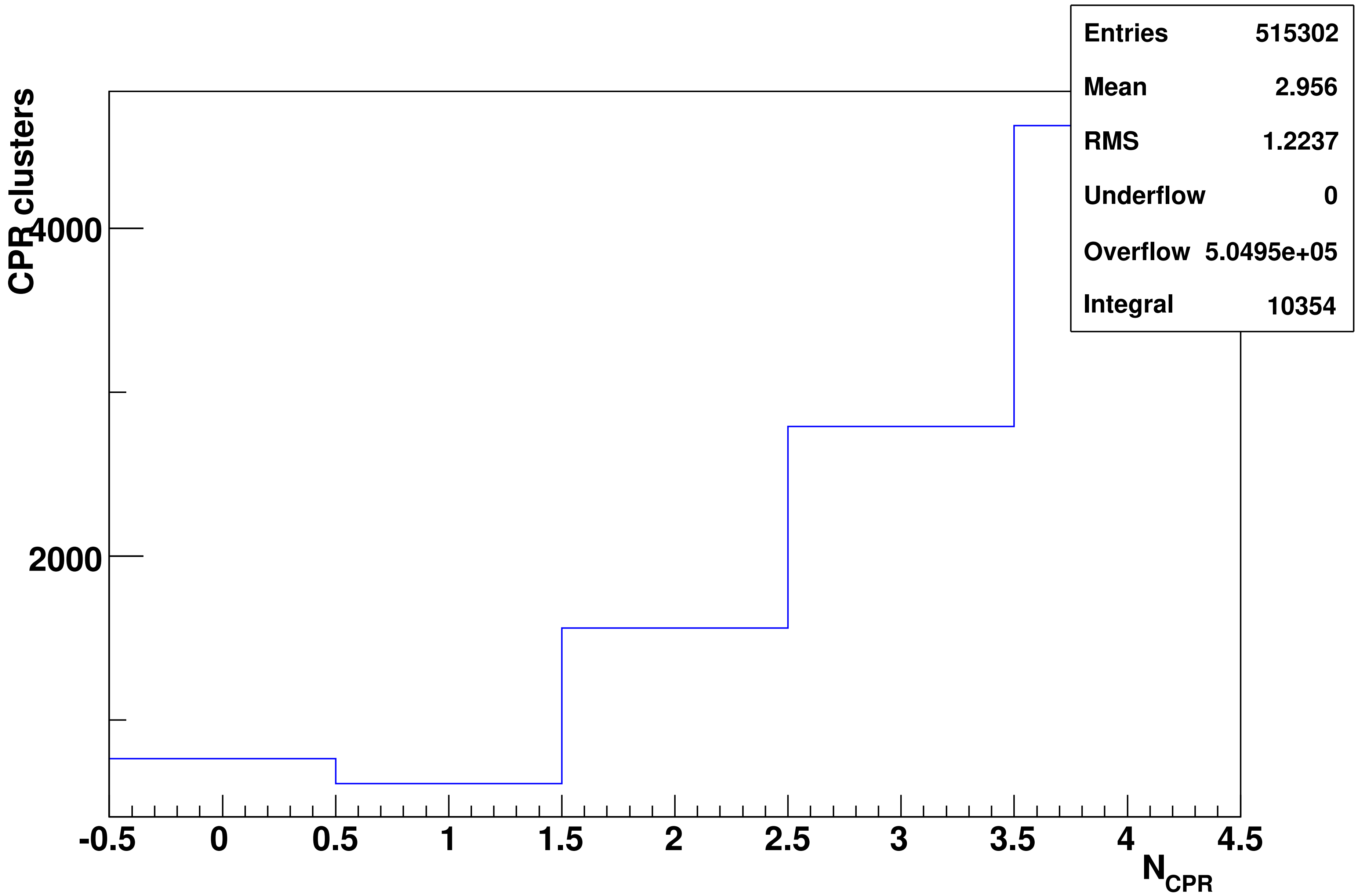


Entries 1086158
Mean 0.98951
RMS 1.1042
Underflow 0
Overflow 0
Integral 1.0862e+06
×10^3
events
400
200
0
0 1 2 3 4 5 6 7 8 9
N_MI

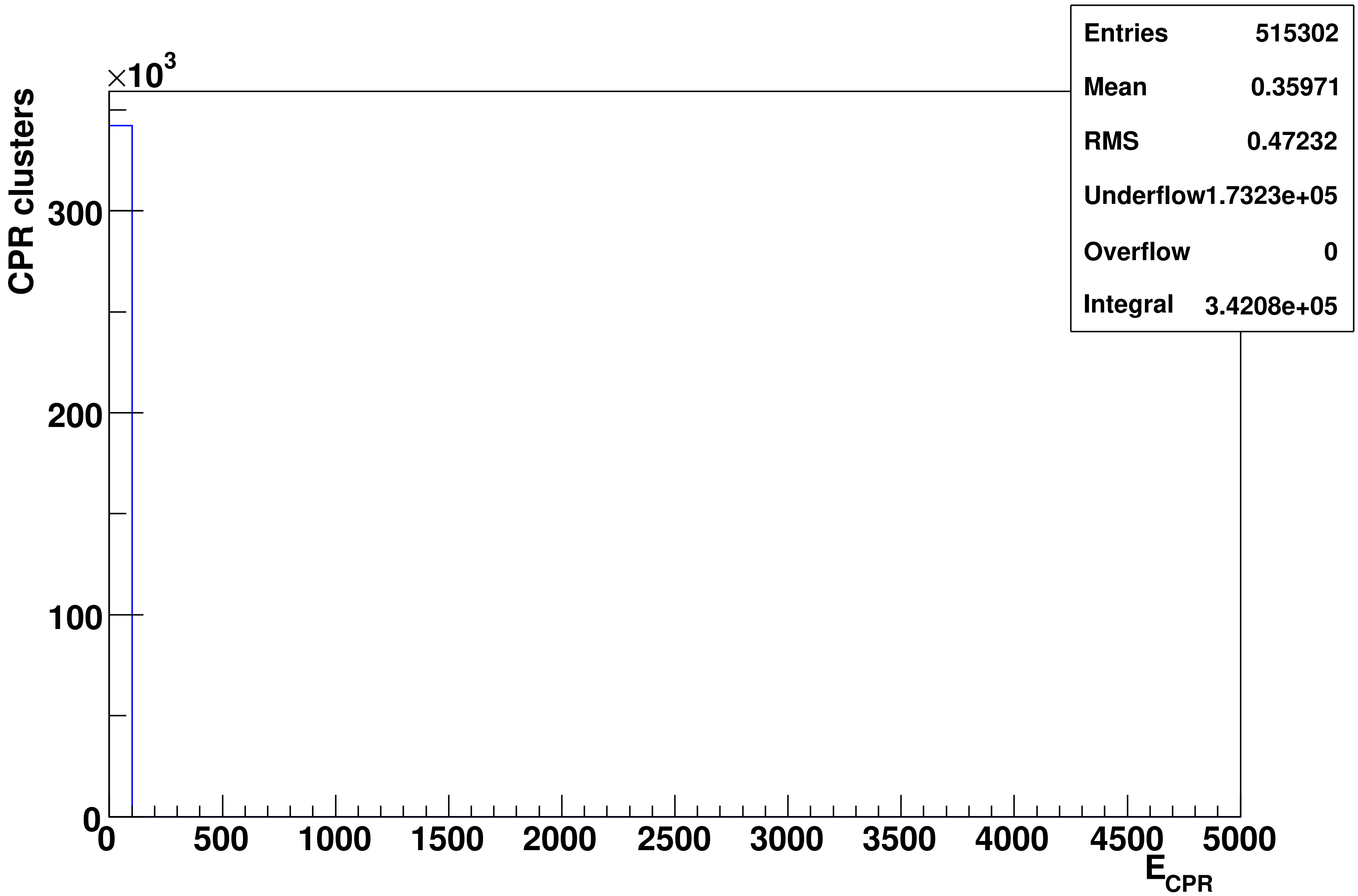

Entries 995689
Mean 1.8352
RMS 1.0271
Underflow 0
Overflow 3726
Integral 9.9196e+05
$\times 10^3$
events
0
200
400
0 1 2 3 4 5 6 7 8 9
N_{muons}



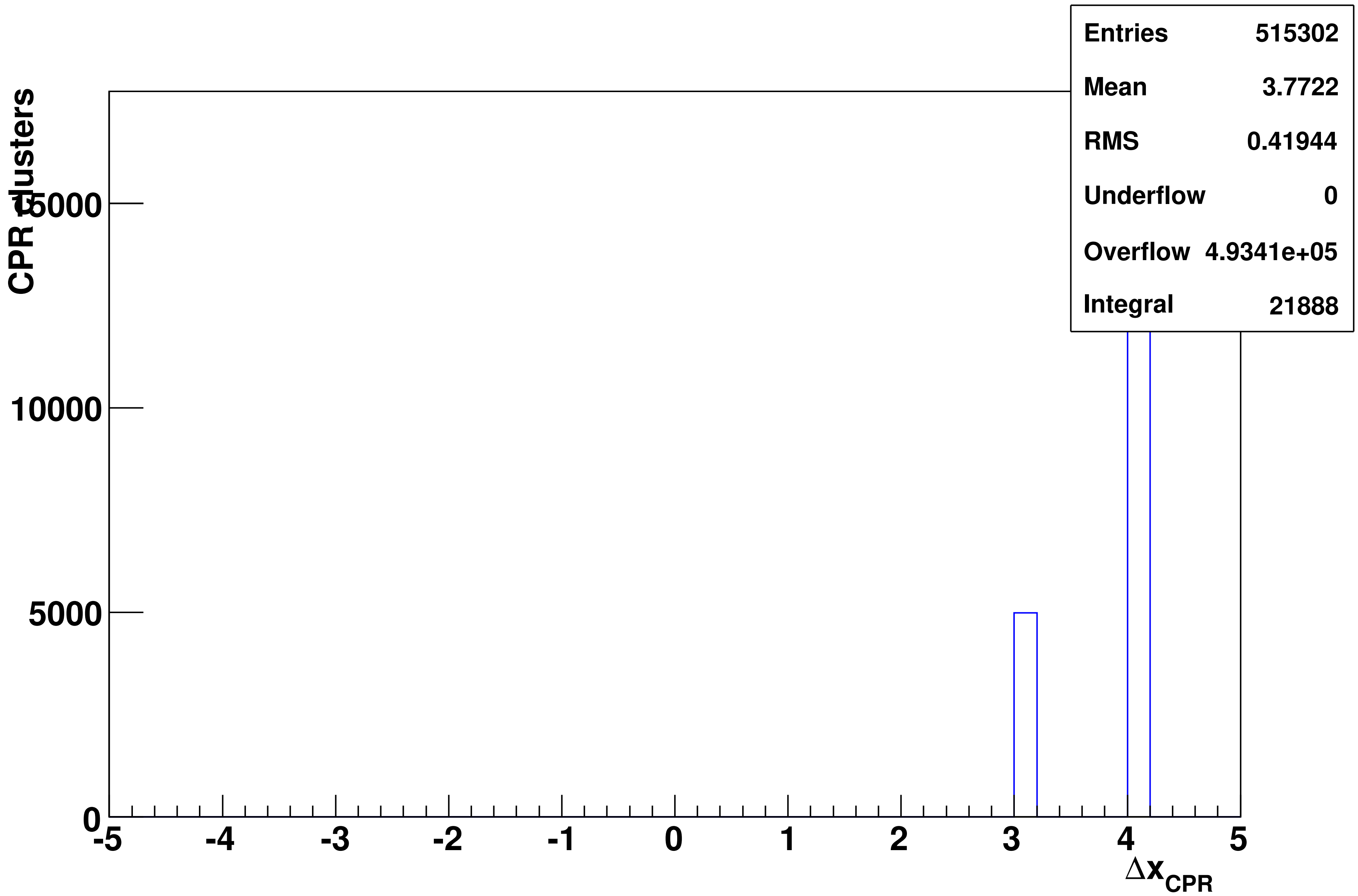
Entries 515302
Mean 1.7074
RMS 0.45542
Underflow 0
Overflow 0
Integral 5.153e+05
×10^3
muons
0
100
200
300
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_cosmics

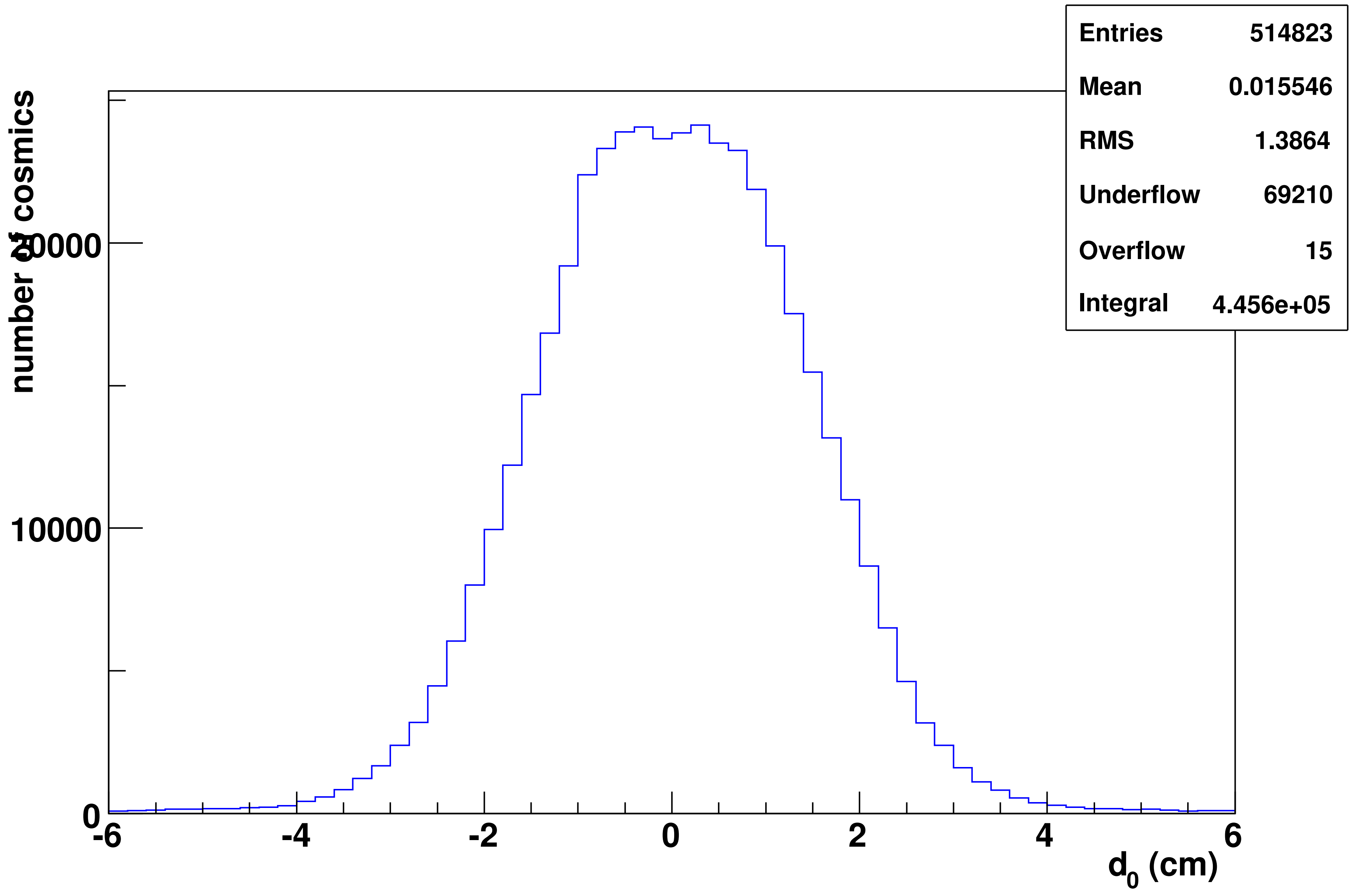


Entries 515302
Mean 2.956
RMS 1.2237
Underflow 0
Overflow 5.0495e+05
Integral 10354
CPR clusters
4000
2000
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_{CPR}

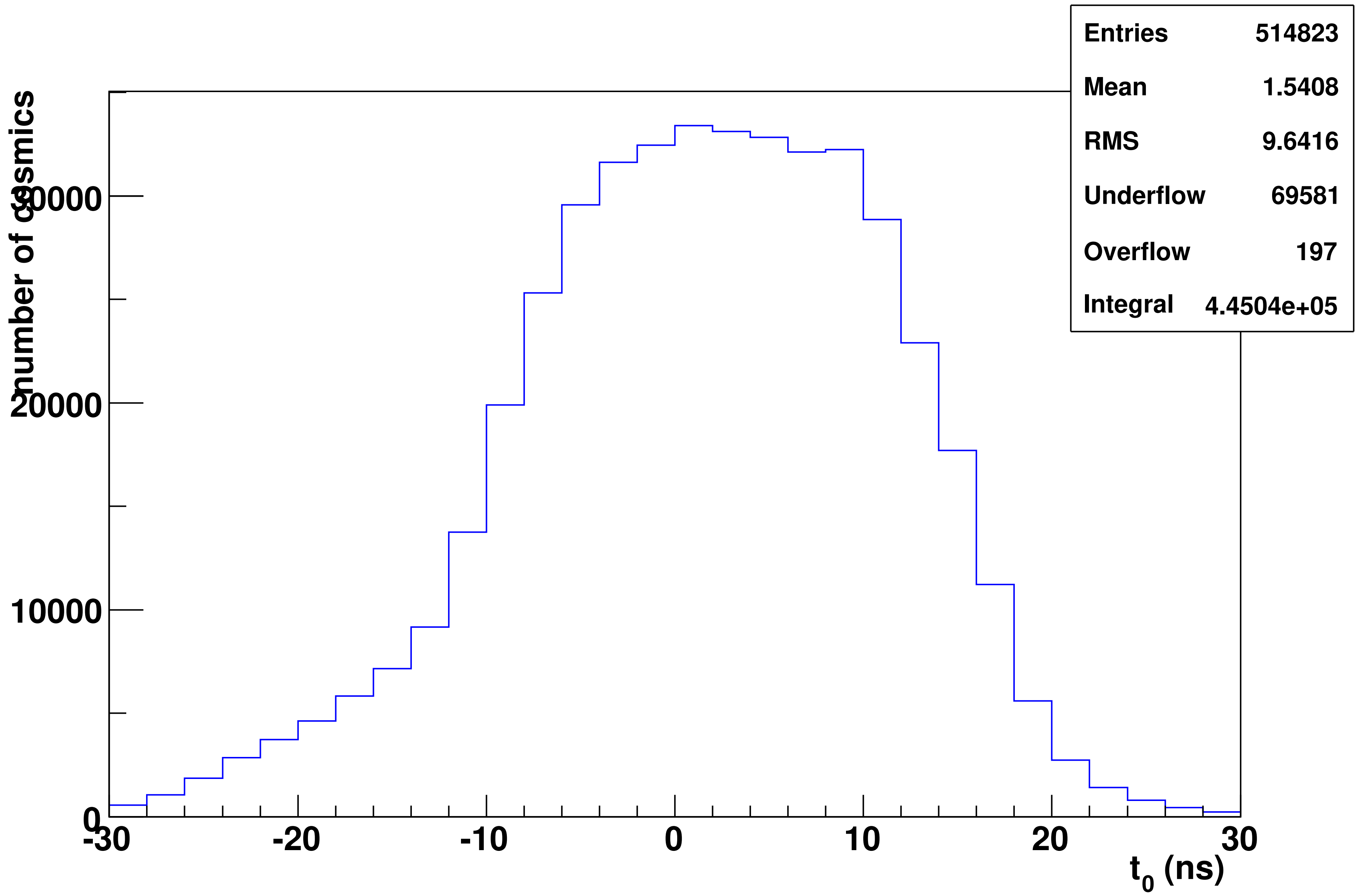


Entries 515302
Mean 0.35971
RMS 0.47232
Underflow1.7323e+05
Overflow 0
Integral 3.4208e+05
×10^3
CPR clusters
300
200
100
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
E_CPR

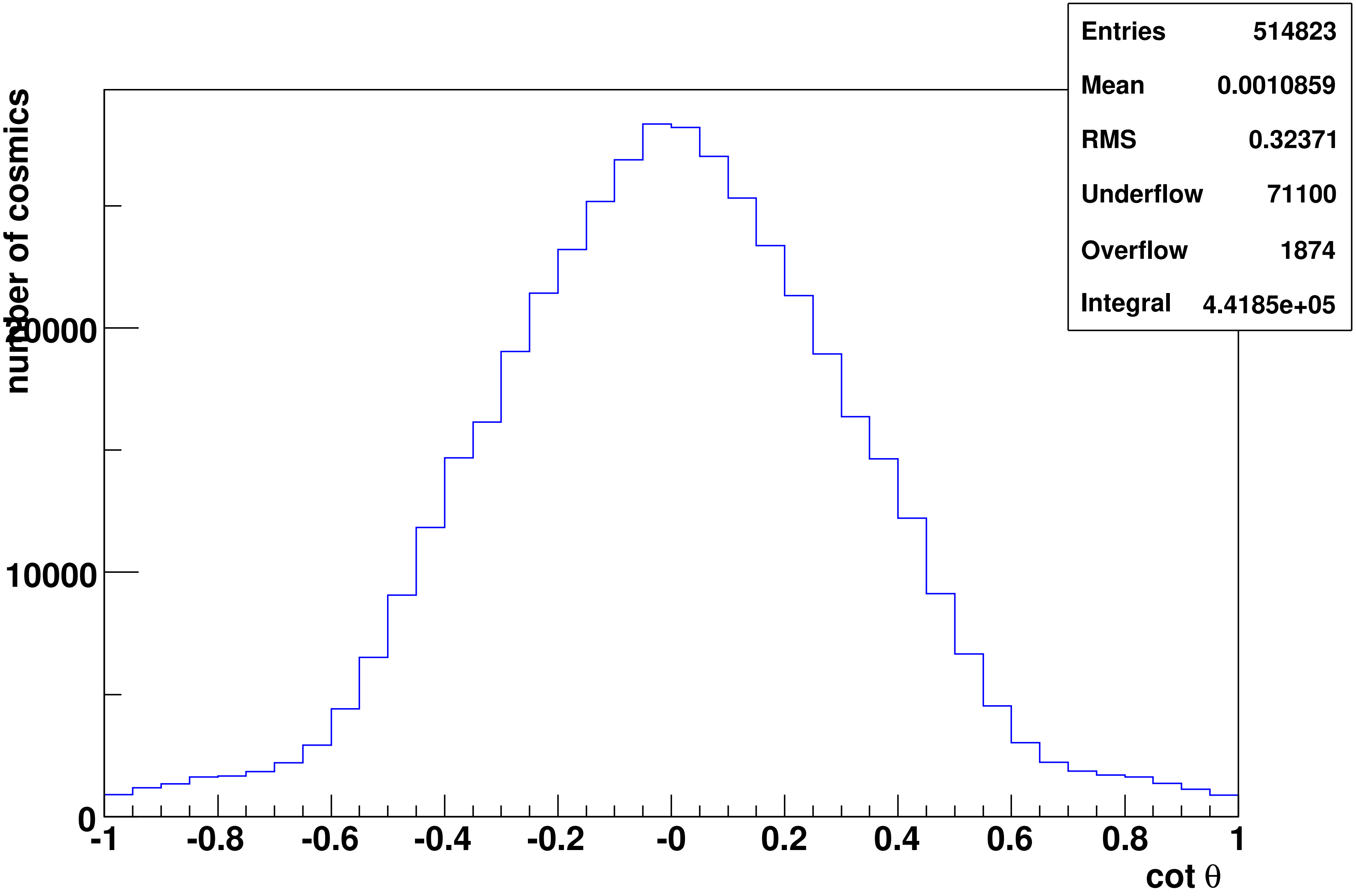

Entries 515302
Mean 3.7722
RMS 0.41944
Underflow 0
Overflow 4.9341e+05
Integral 21888
CPR clusters
15000
10000
5000
0
-5
-4
-3
-2
-1
0
1
2
3
4
5
Δx_{CPR}



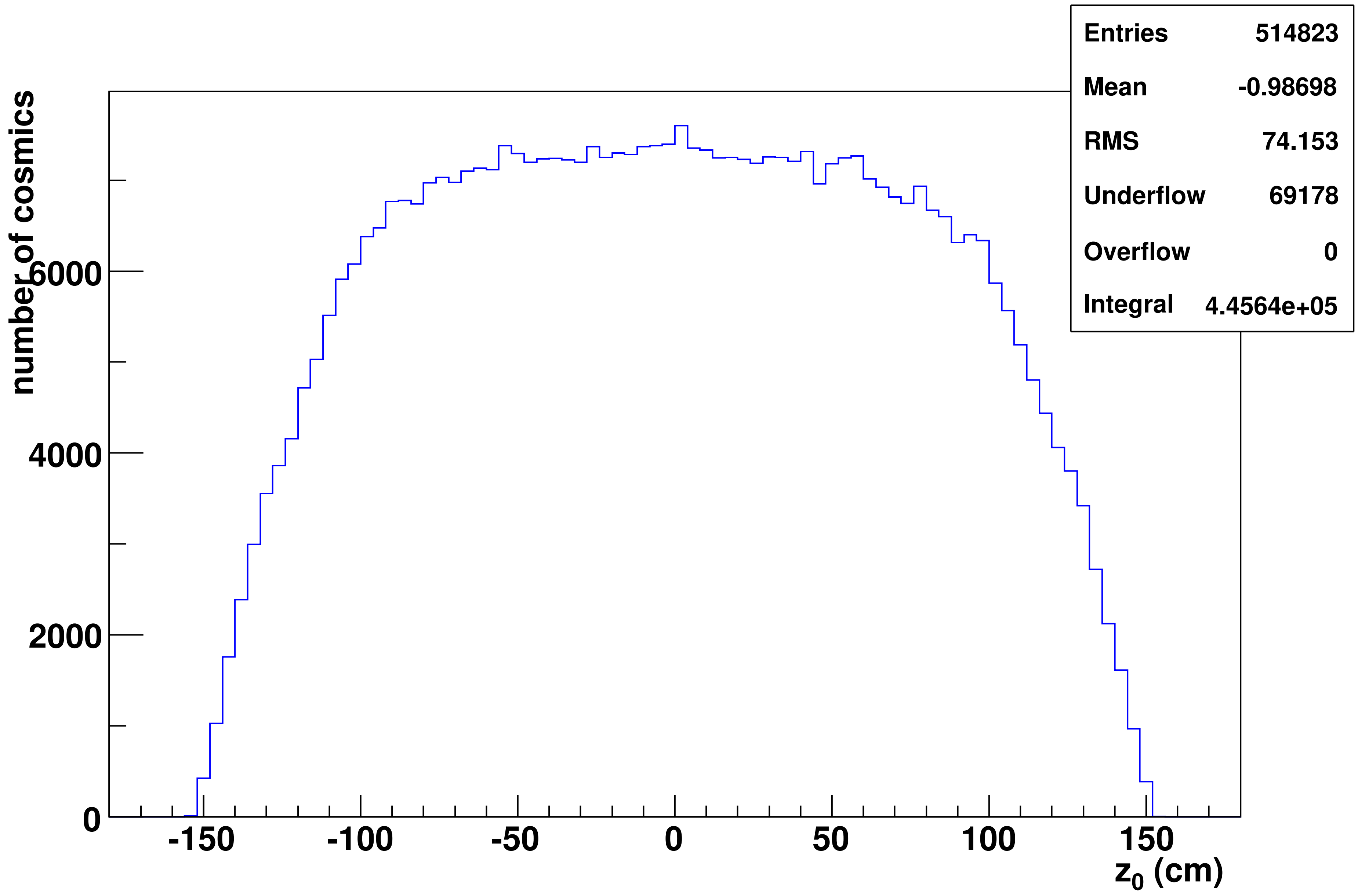
Entries 514823
Mean 0.015546
RMS 1.3864
Underflow 69210
Overflow 15
Integral 4.456e+05
number of cosmics
20000
10000
0
-6
-4
-2
0
2
4
6
d0 (cm)



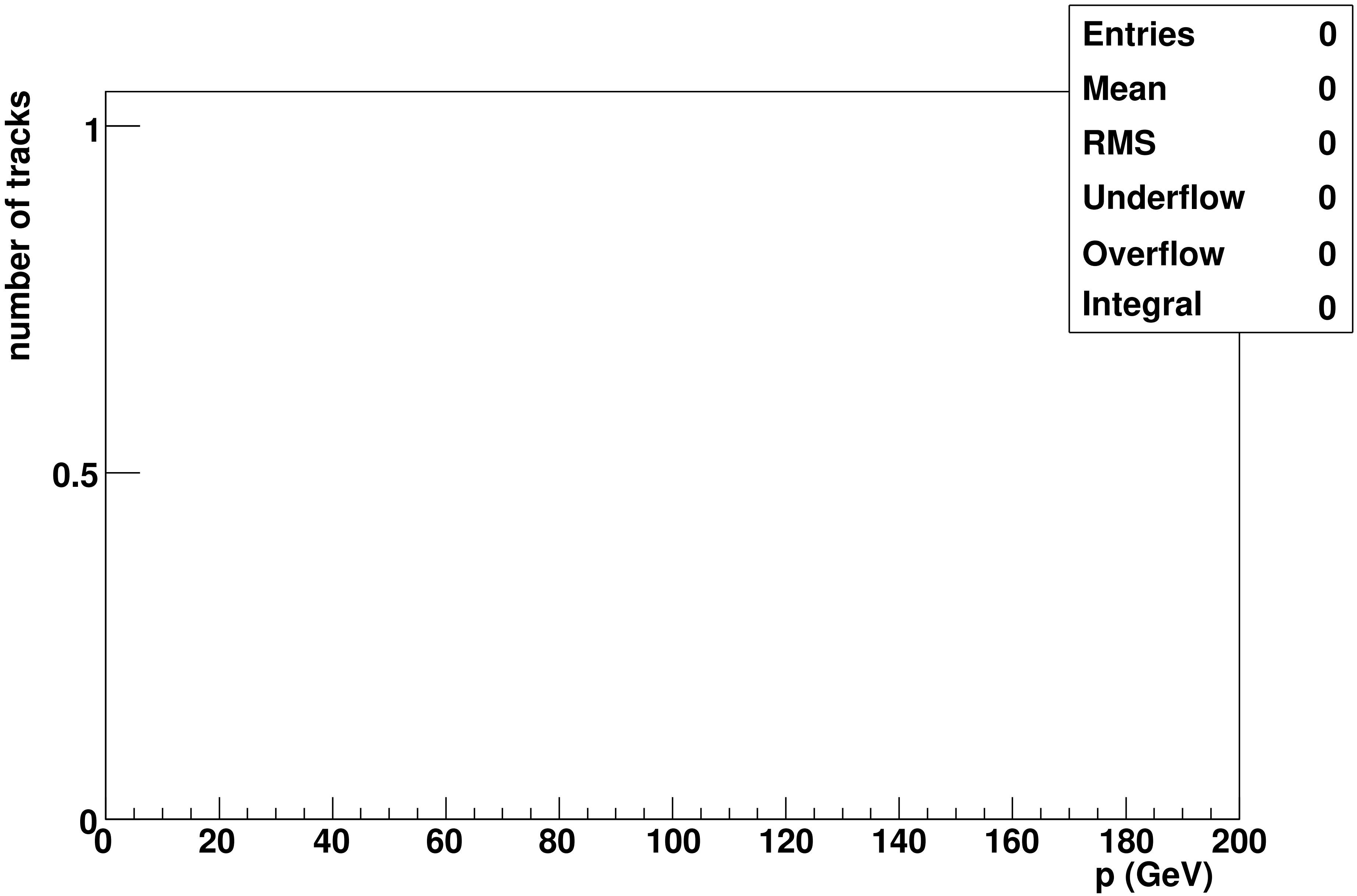
Entries 514823
Mean 1.5408
RMS 9.6416
Underflow 69581
Overflow 197
Integral 4.4504e+05
number of cosmics
0
10000
20000
30000
-30
-20
-10
0
10
20
30
t_0 (ns)

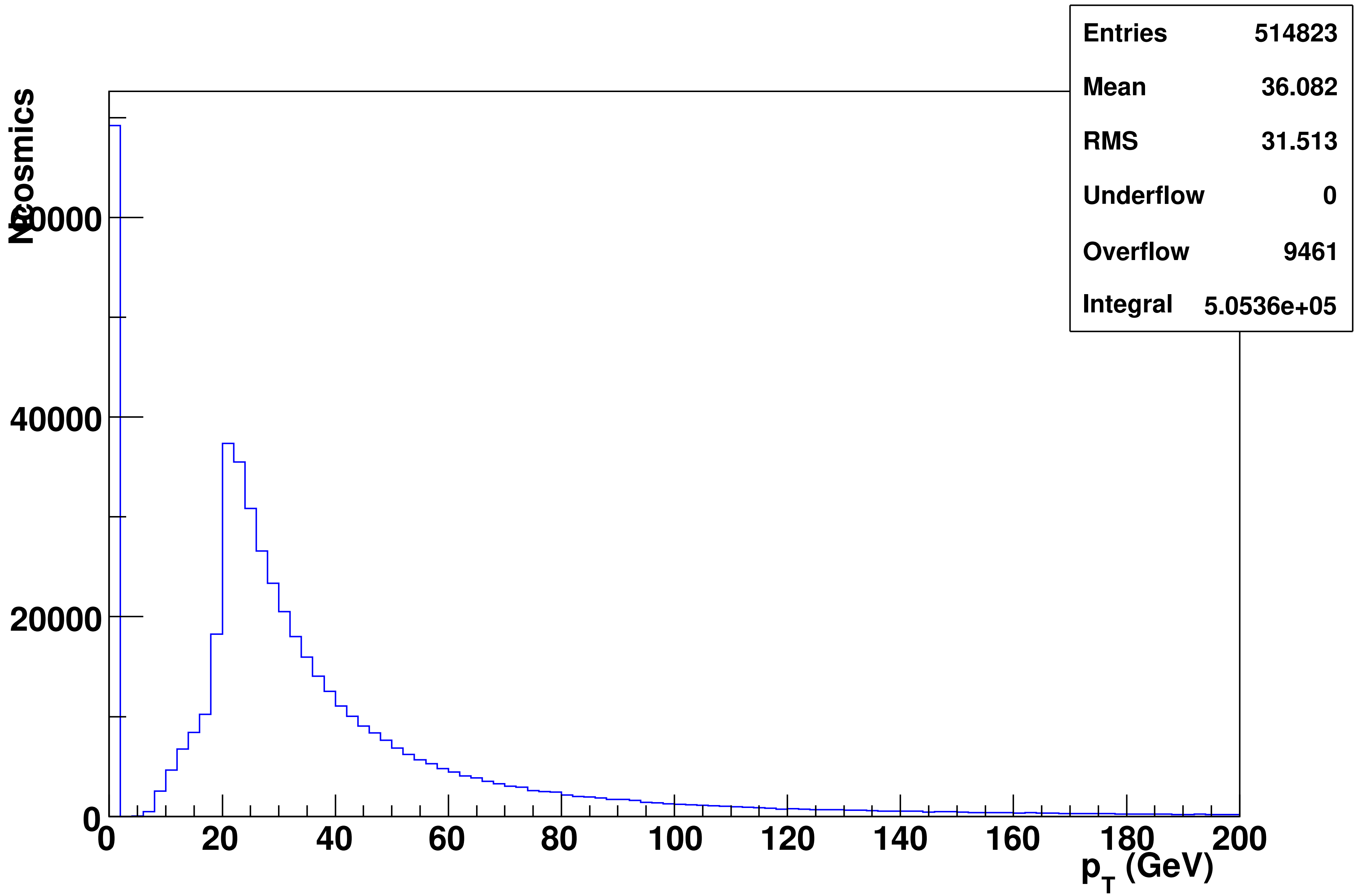


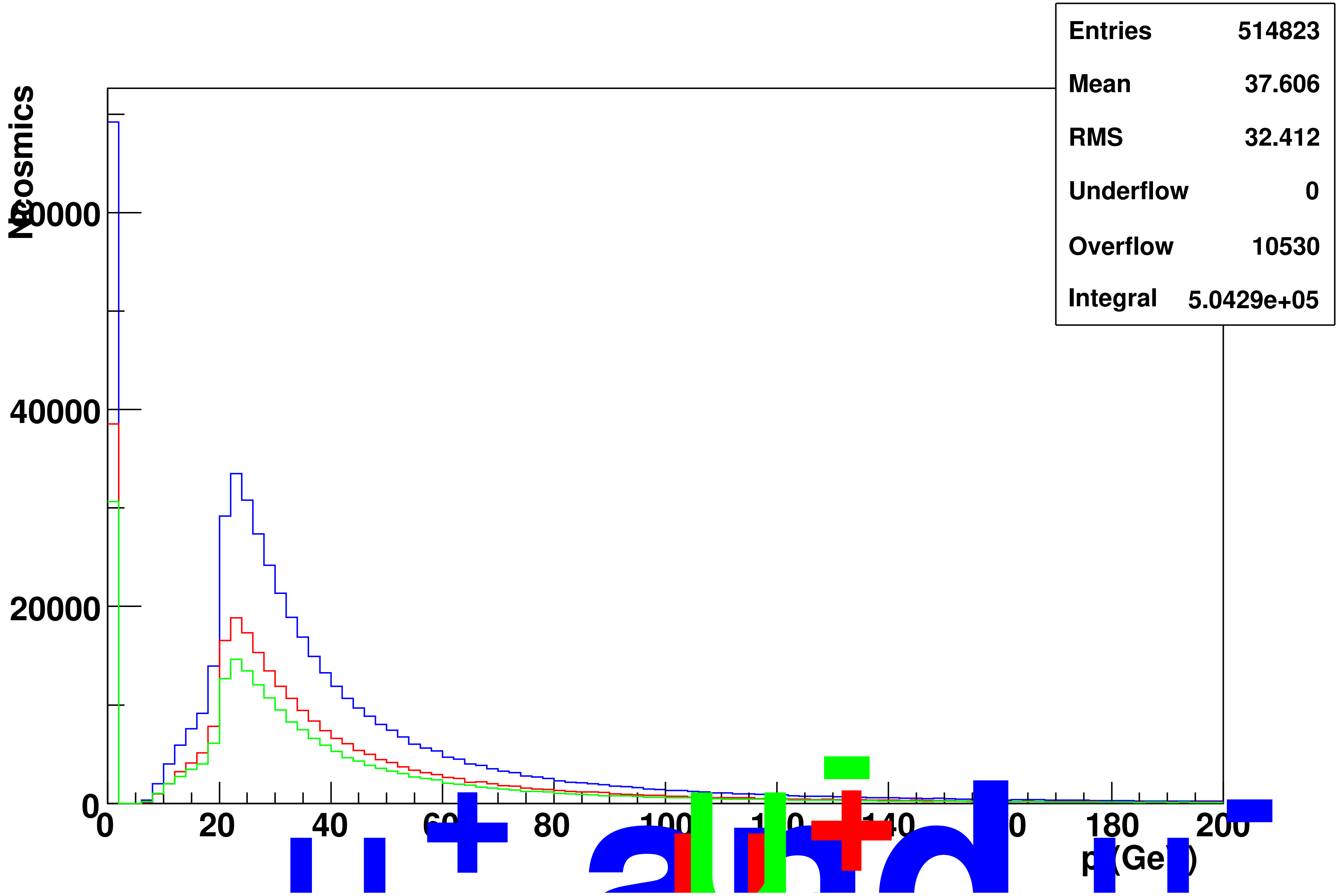
Entries 514823
Mean 0.0010859
RMS 0.32371
Underflow 71100
Overflow 1874
Integral 4.4185e+05
number of cosmics
0
10000
20000
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
cot θ

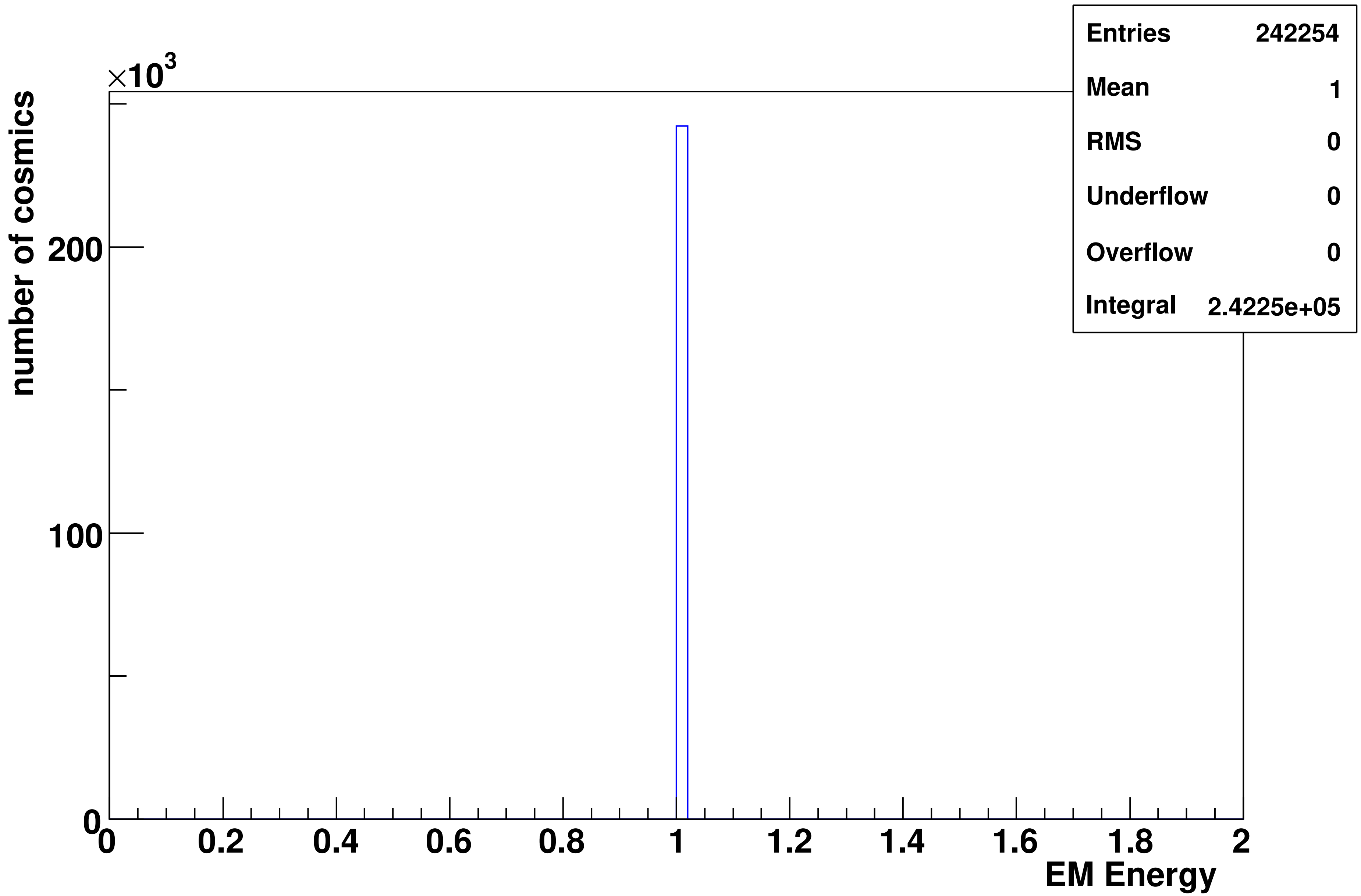


Entries 514823
Mean -0.98698
RMS 74.153
Underflow 69178
Overflow 0
Integral 4.4564e+05
number of cosmics
0
2000
4000
6000
-150
-100
-50
0
50
100
150
z_0 (cm)

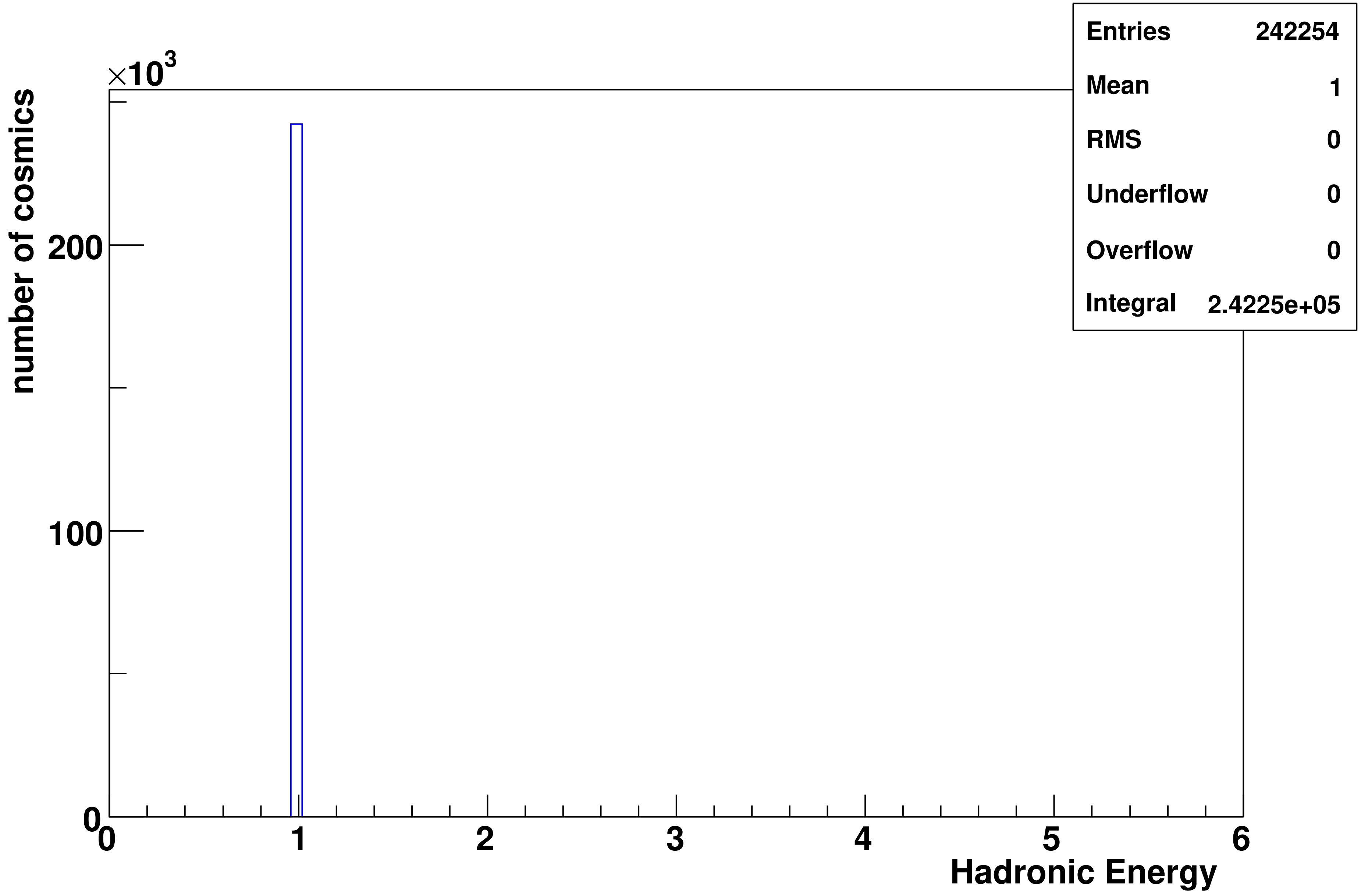

Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
Integral 0
number of tracks
1
0.5
0
0
20
40
60
80
100
120
140
160
180
200
p (GeV)

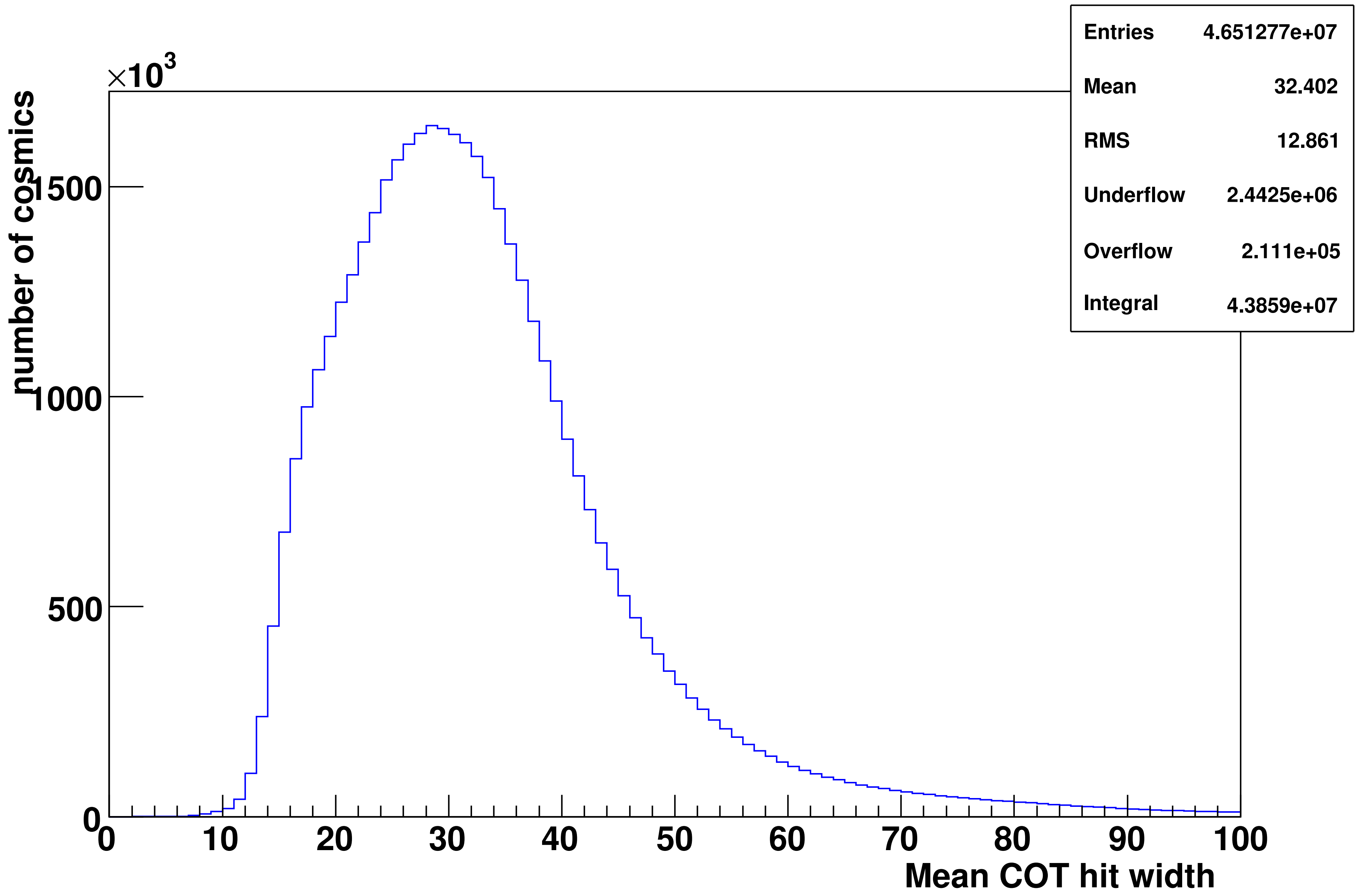

Entries 514823
Mean 36.082
RMS 31.513
Underflow 0
Overflow 9461
Integral 5.0536e+05
Ncosmics
60000
40000
20000
0
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV)


Entries 514823
Mean 37.606
RMS 32.412
Underflow 0
Overflow 10530
Integral 5.0429e+05
Ncosmics
p (GeV)

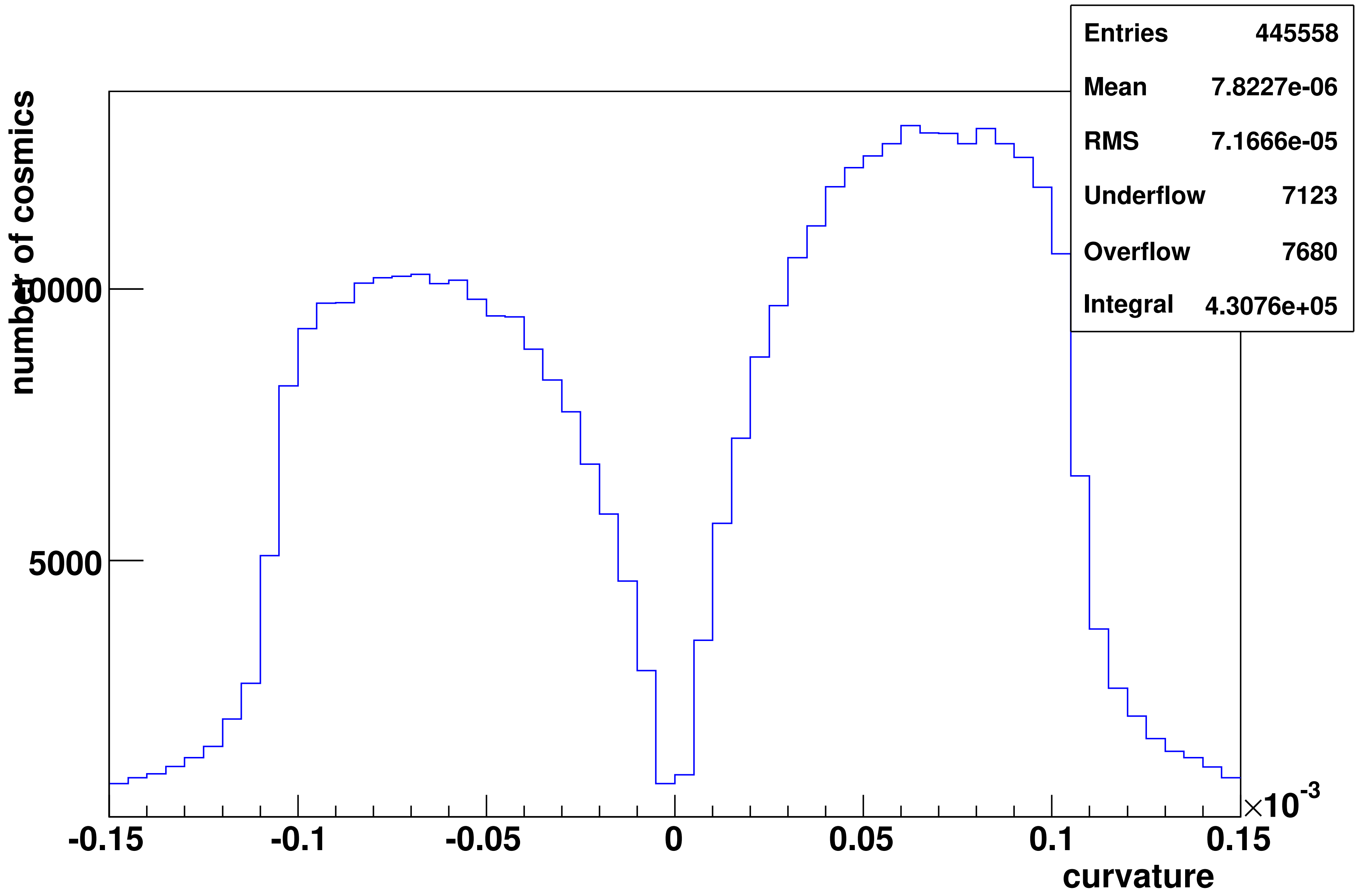


Entries 242254
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.4225e+05
×10^3
number of cosmics
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
EM Energy

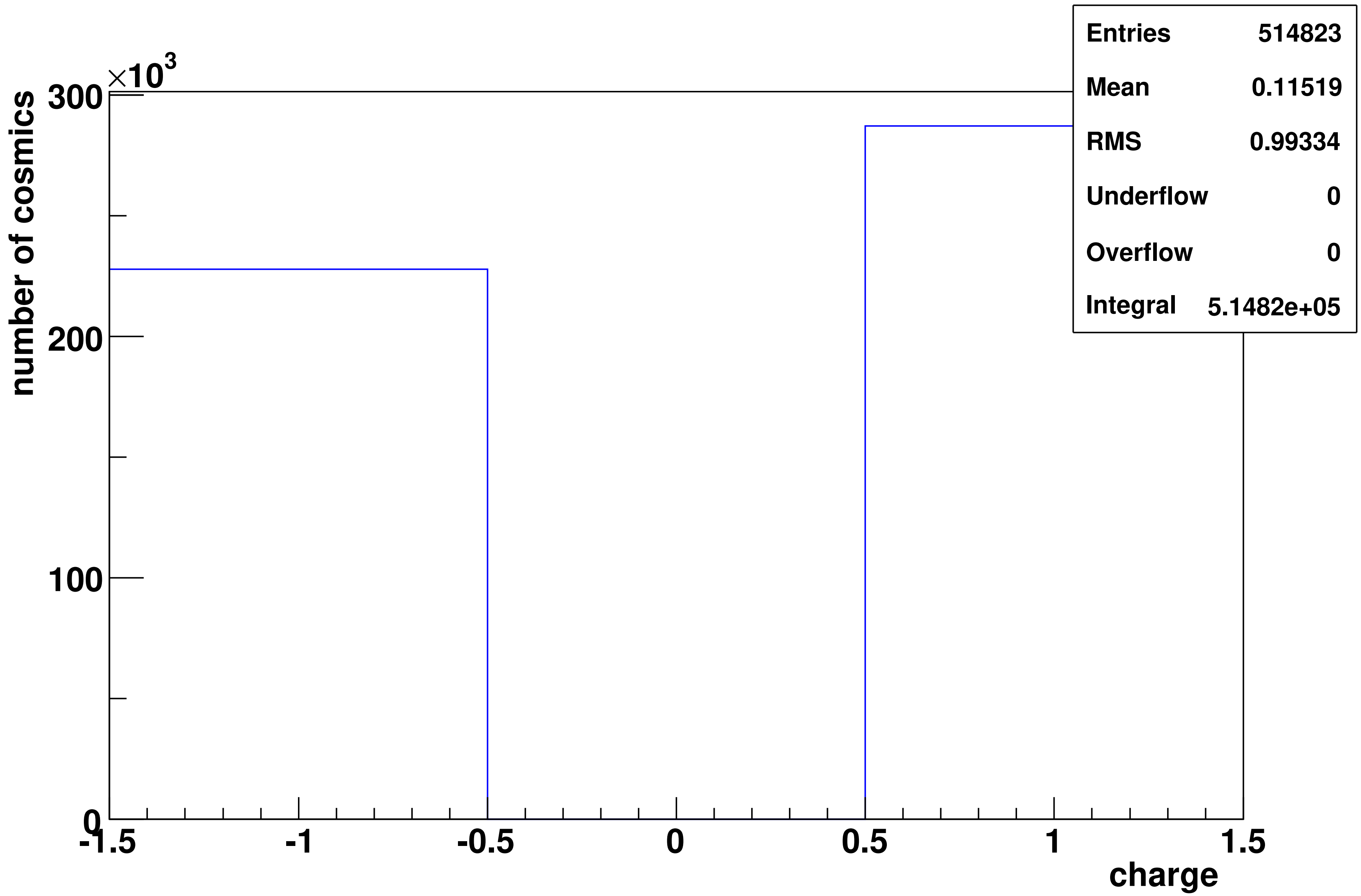

Entries 242254
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.4225e+05
×10^3
number of cosmics
0
100
200
0
1
2
3
4
5
6
Hadronic Energy



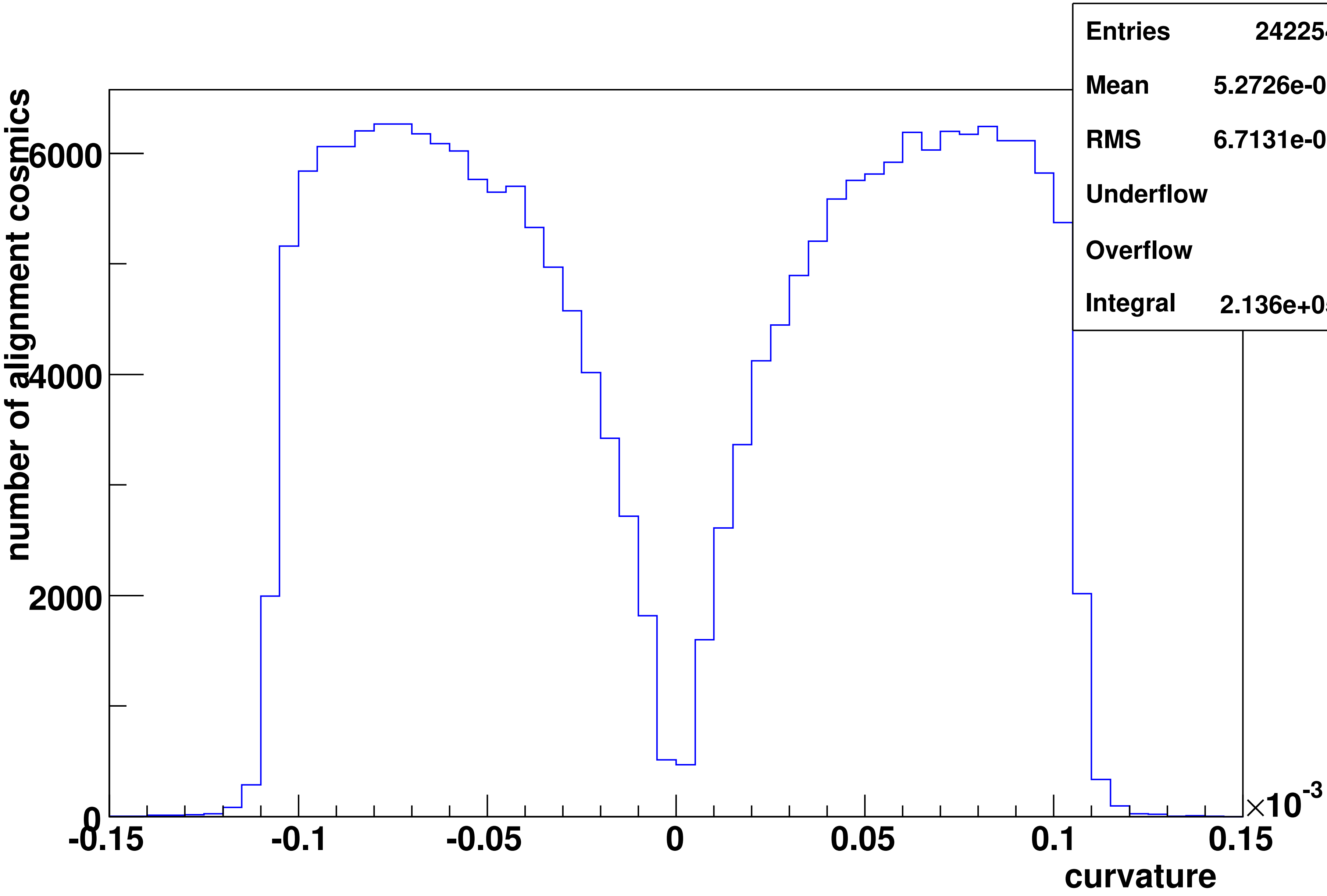
Entries 4.651277e+07
Mean 32.402
RMS 12.861
Underflow 2.4425e+06
Overflow 2.111e+05
Integral 4.3859e+07
×10^3
number of cosmics
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
Mean COT hit width



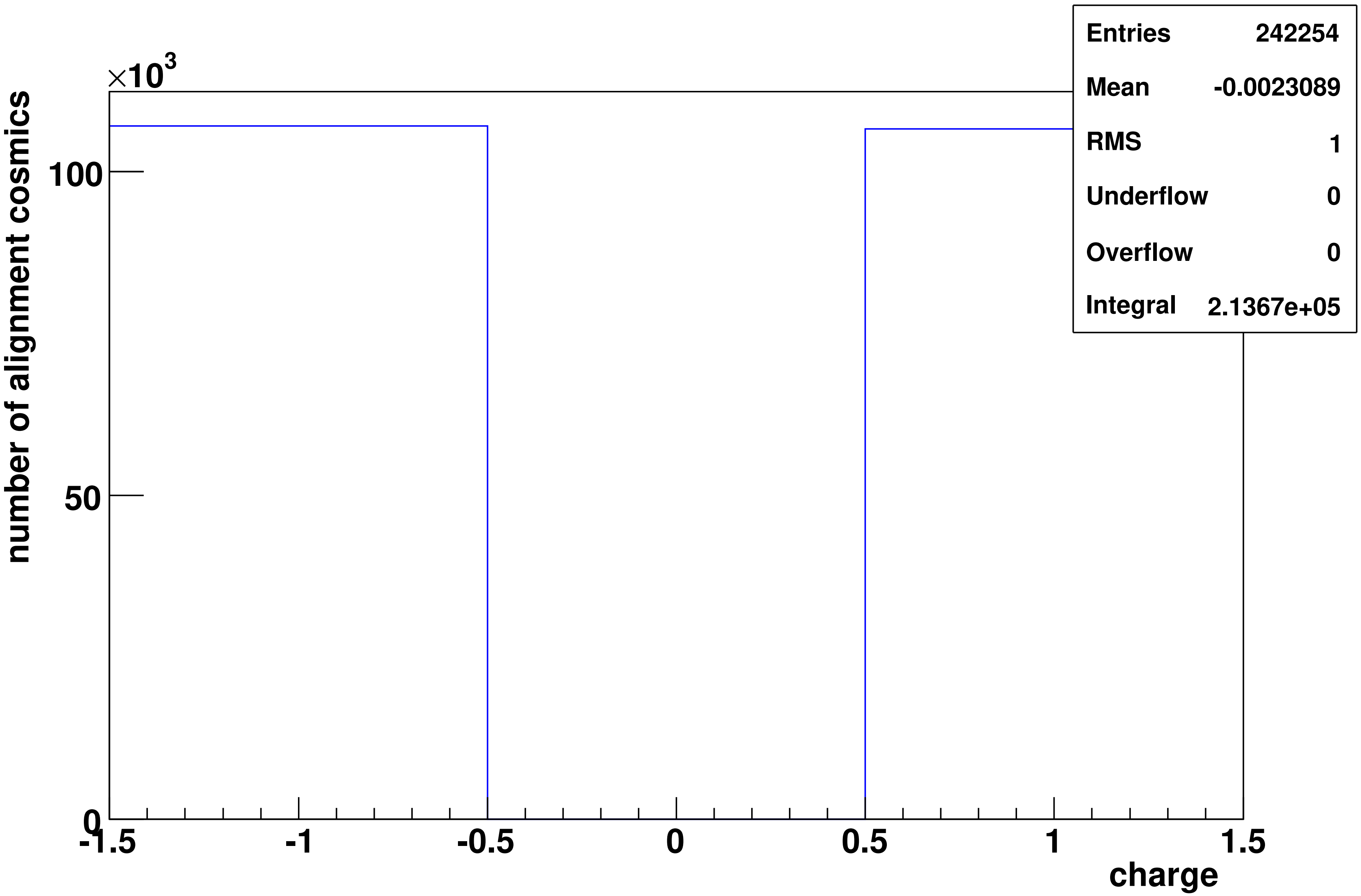
Entries 445558
Mean 7.8227e-06
RMS 7.1666e-05
Underflow 7123
Overflow 7680
Integral 4.3076e+05
number of cosmics
10000
5000
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
$\times 10^{-3}$
curvature

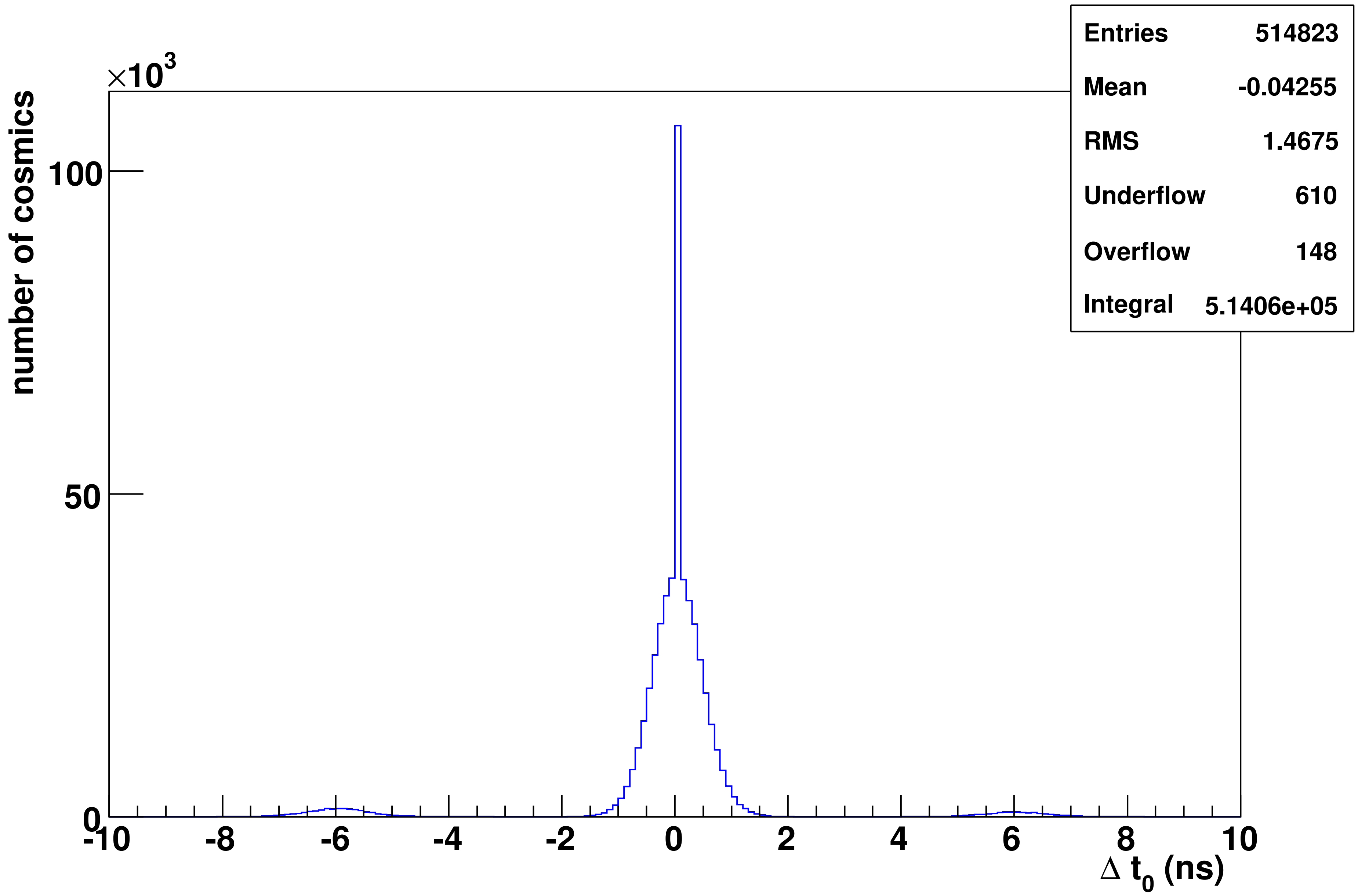


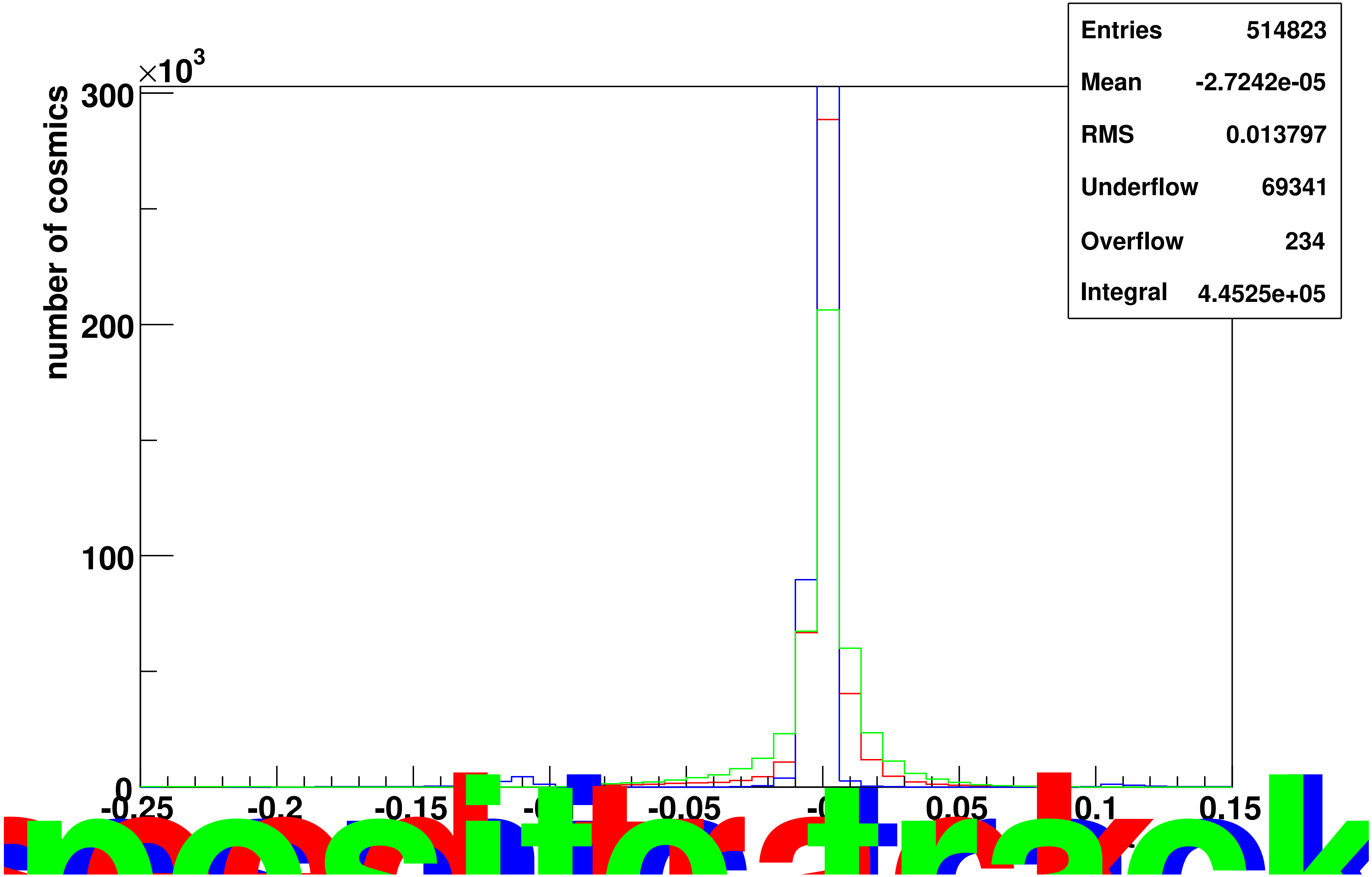
Entries 514823
Mean 0.11519
RMS 0.99334
Underflow 0
Overflow 0
Integral 5.1482e+05
number of cosmics
×10^3
300
200
100
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge



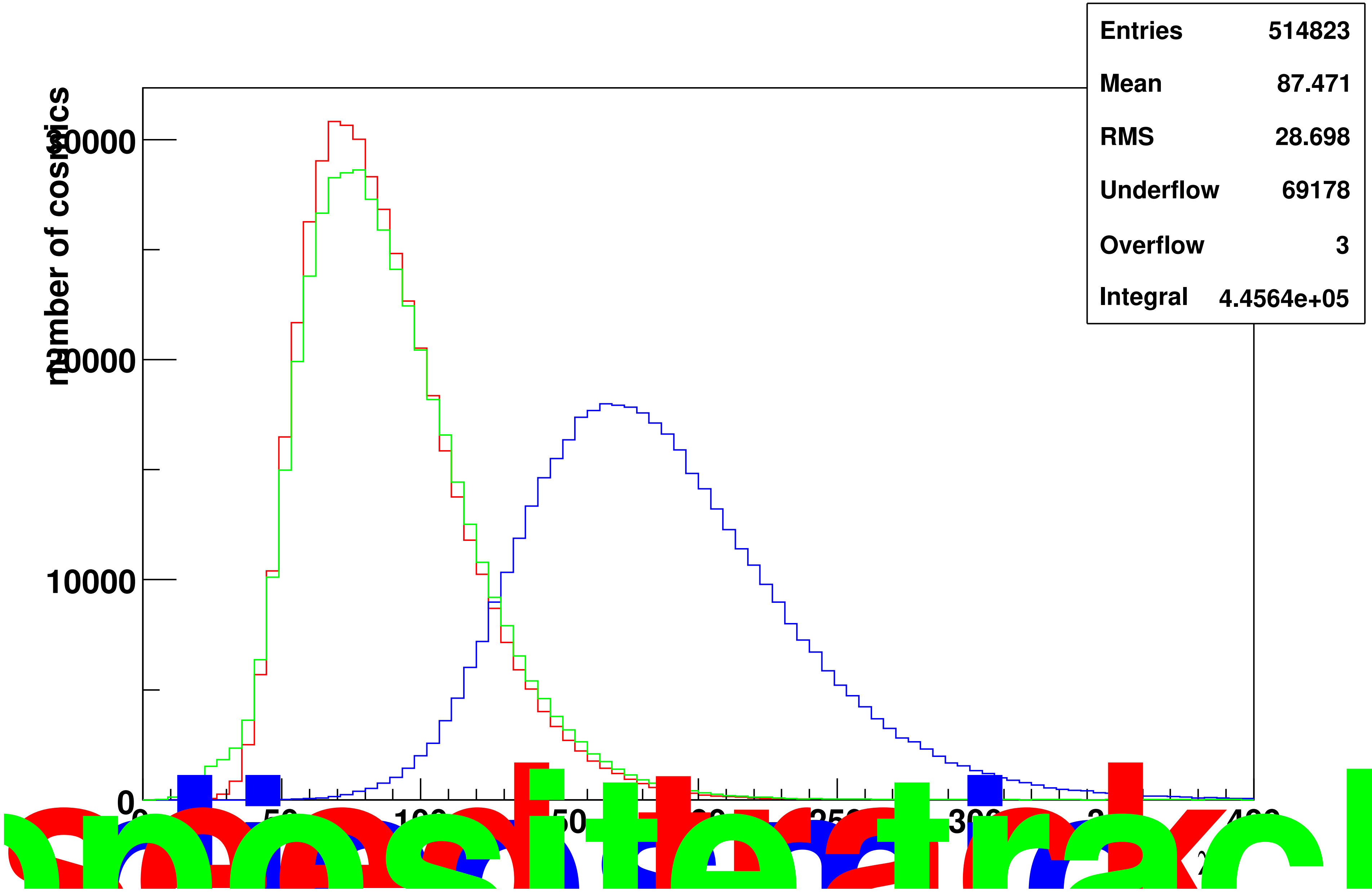
Entries 242254
Mean 5.2726e-08
RMS 6.7131e-05
Underflow 0
Overflow 0
Integral 2.136e+05
number of alignment cosmics
0
2000
4000
6000
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
$\times 10^{-3}$
curvature


Entries 242254
Mean -0.0023089
RMS 1
Underflow 0
Overflow 0
Integral 2.1367e+05
×10³
number of alignment cosmics
100
50
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

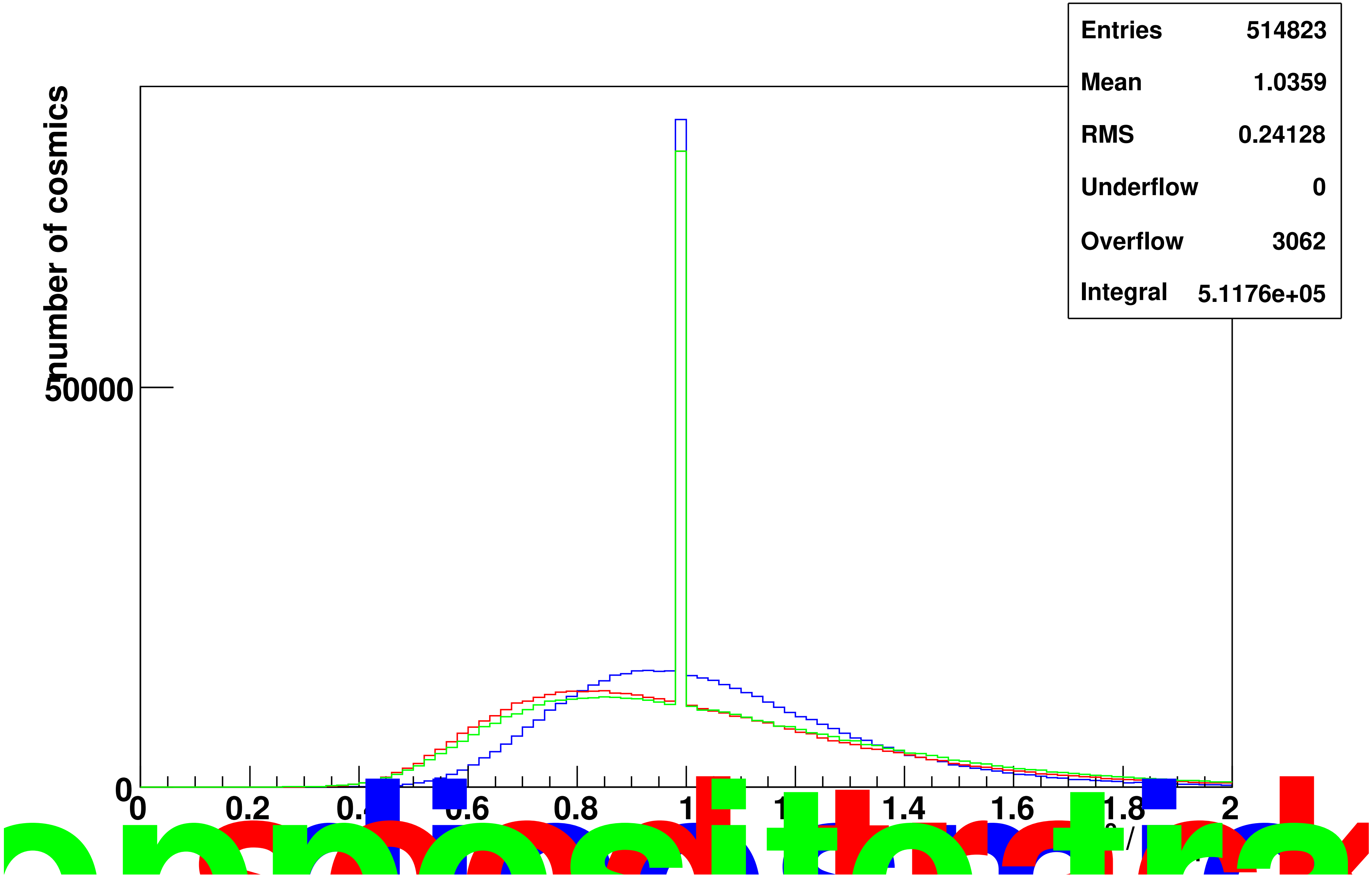

Entries 514823
Mean -0.04255
RMS 1.4675
Underflow 610
Overflow 148
Integral 5.1406e+05
×10^3
number of cosmics
100
50
0
-10
-8
-6
-4
-2
0
2
4
6
8
10
Δ t0 (ns)



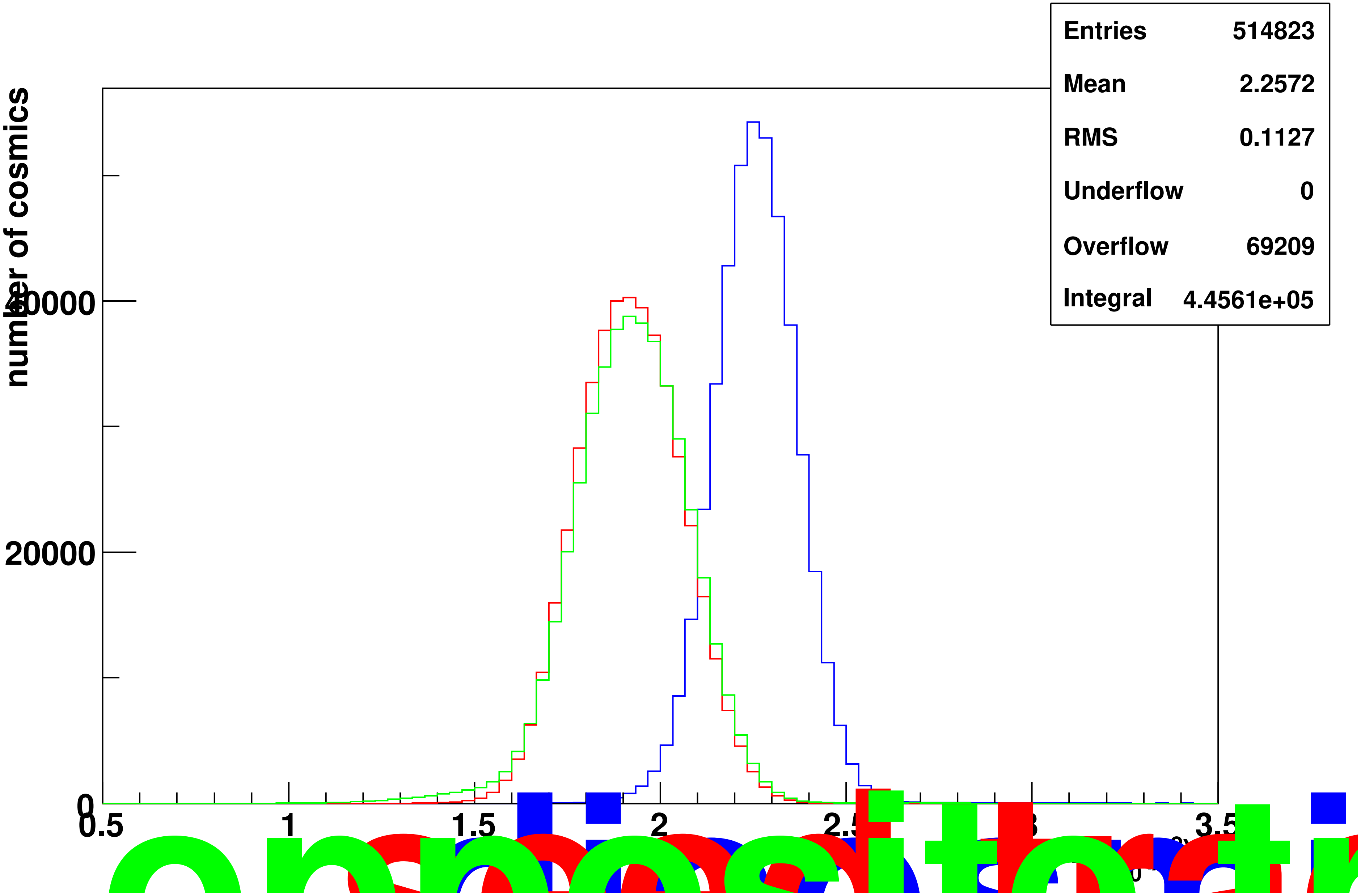
Entries 514823
Mean -2.7242e-05
RMS 0.013797
Underflow 69341
Overflow 234
Integral 4.4525e+05
×10³
number of cosmics
300
200
100
0
-0.25
-0.2
-0.15
-0.05
0.05
0.1
0.15

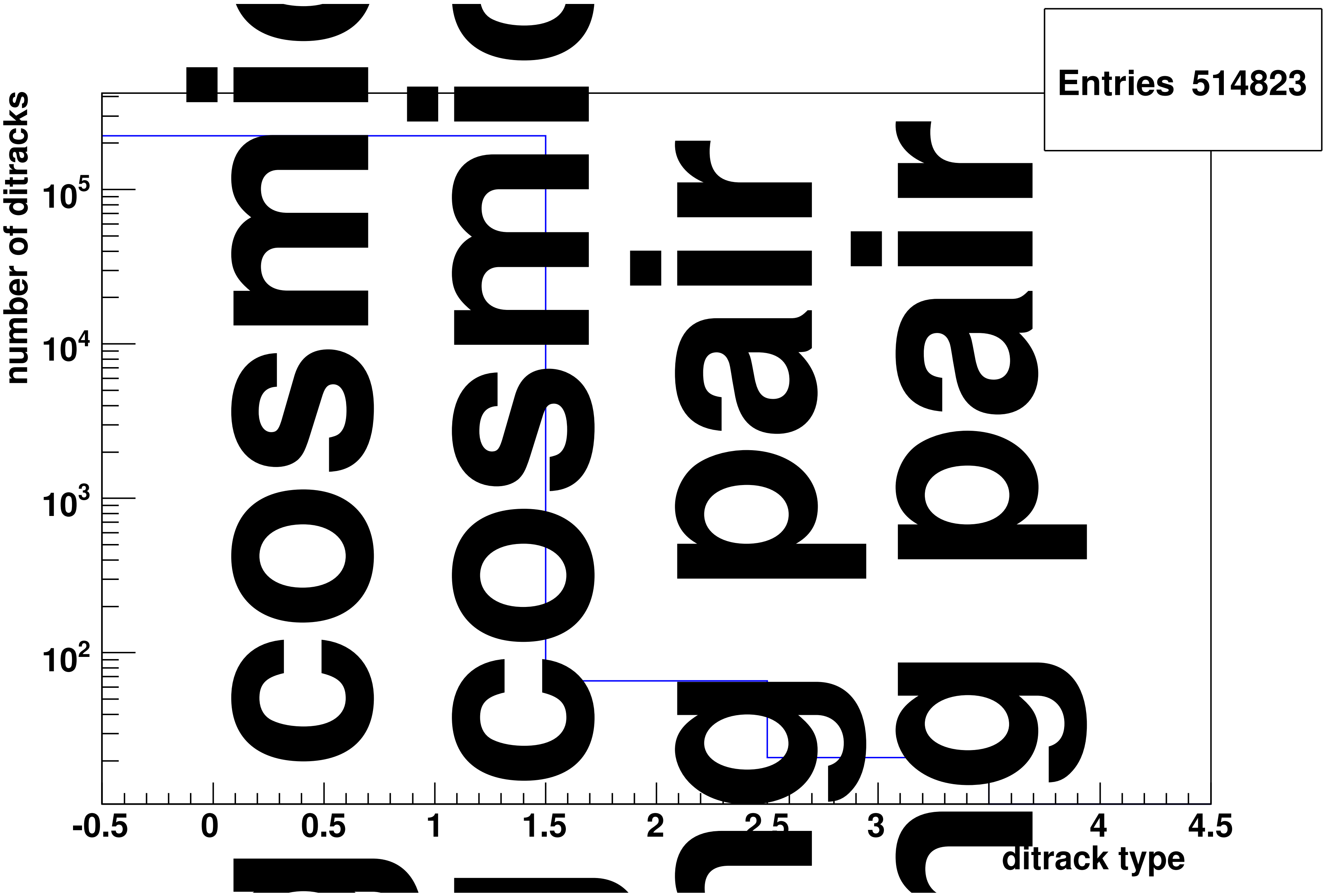


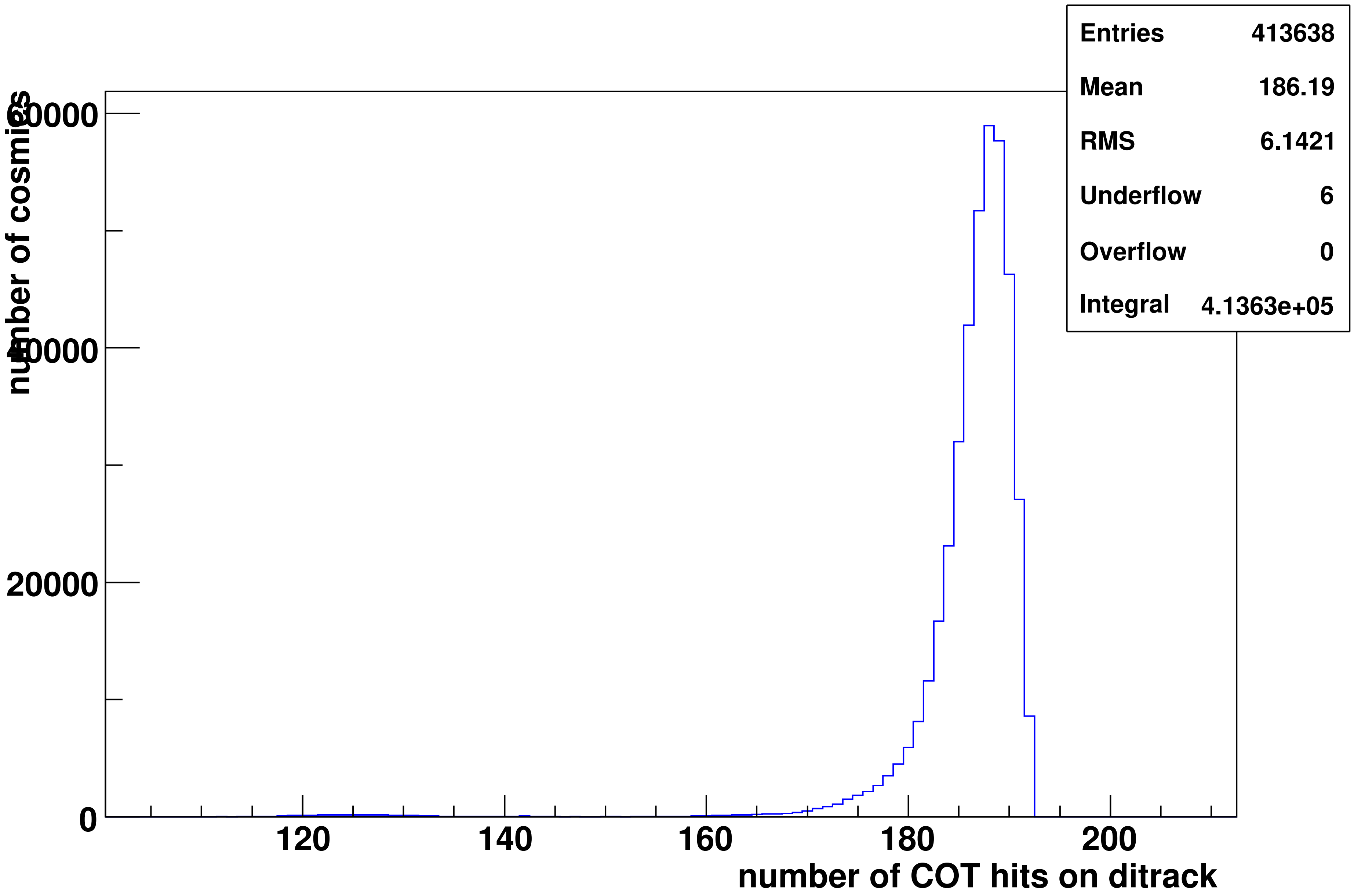
number of cosmics
30000
20000
10000
0
Entries 514823
Mean 87.471
RMS 28.698
Underflow 69178
Overflow 3
Integral 4.4564e+05

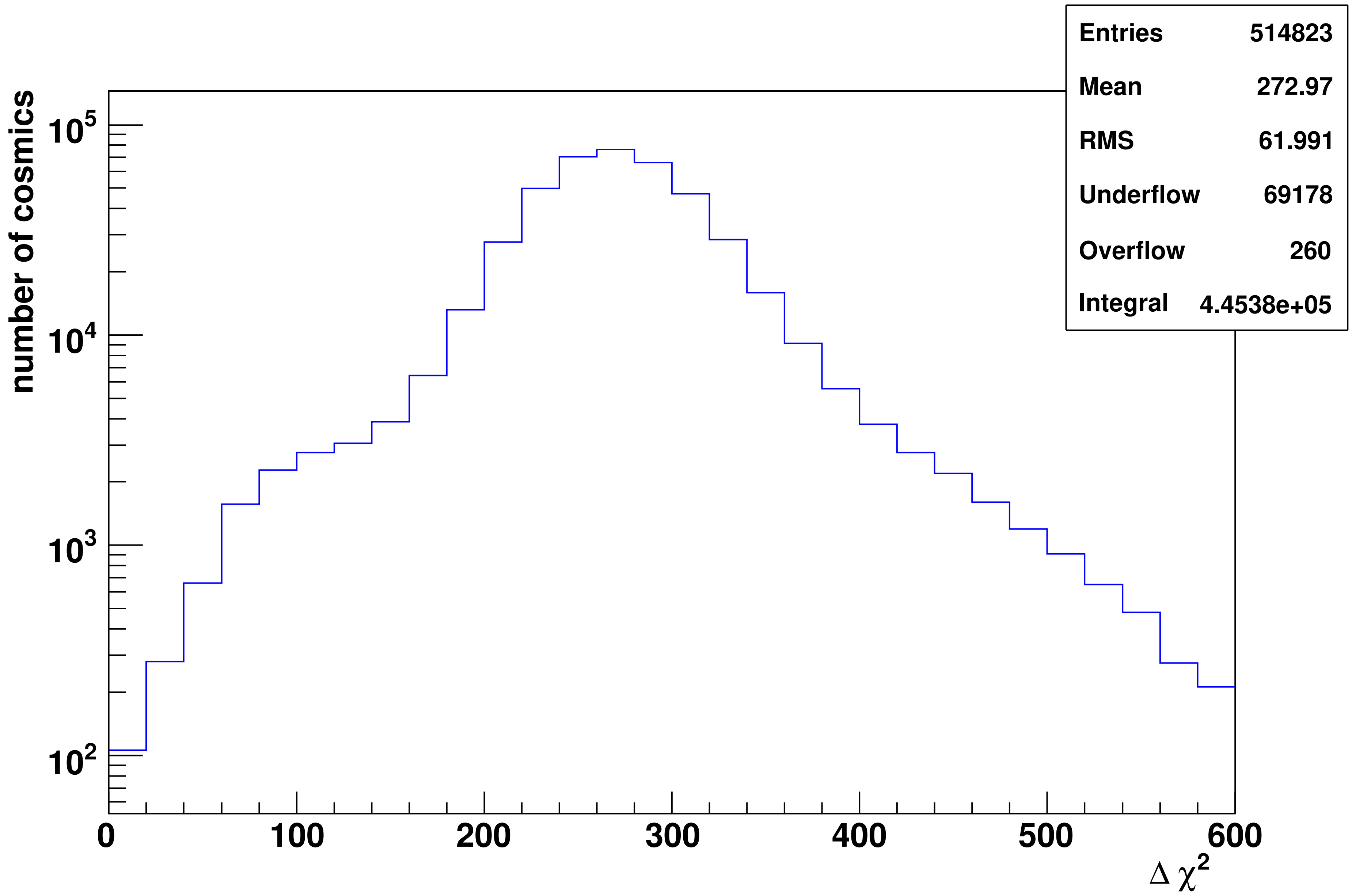


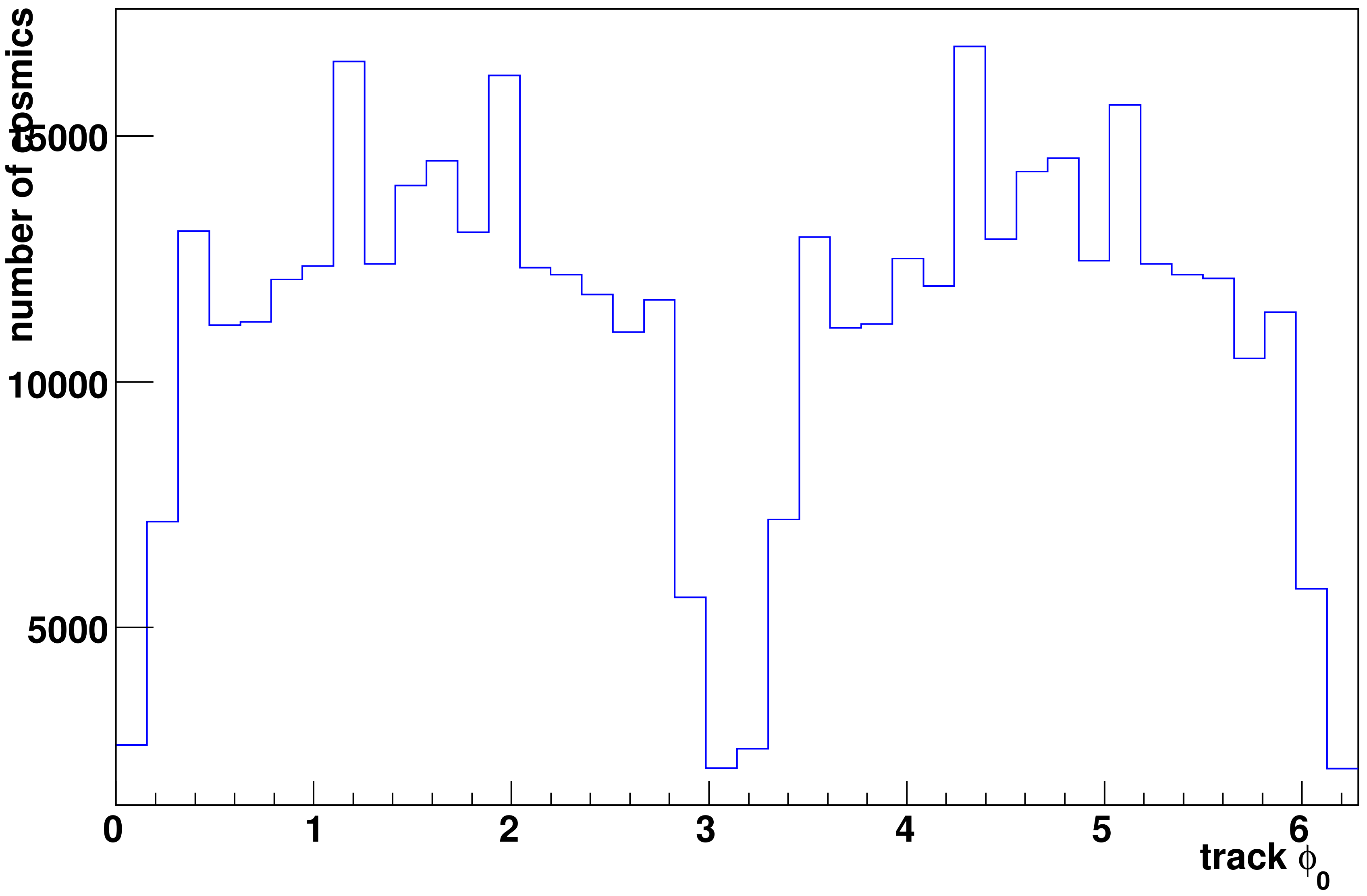
Entries 514823
Mean 1.0359
RMS 0.24128
Underflow 0
Overflow 3062
Integral 5.1176e+05
number of cosmics
50000
0
0
0.2
0.6
0.8
1
1.4
1.6
1.8
2

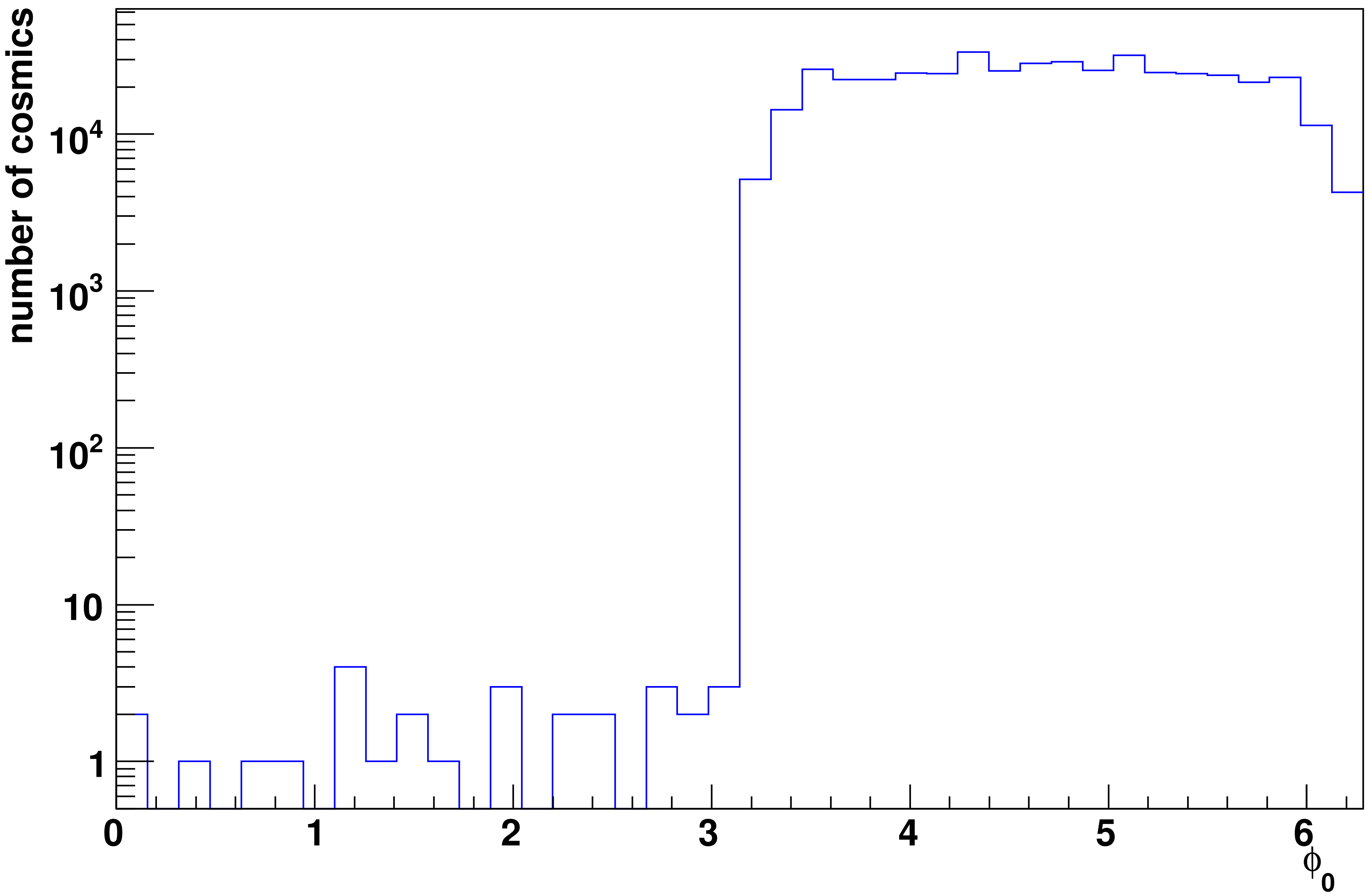

Entries 514823
Mean 2.2572
RMS 0.1127
Underflow 0
Overflow 69209
Integral 4.4561e+05
number of cosmics
40000
20000
0
0.5
1
1.5
2
3.5

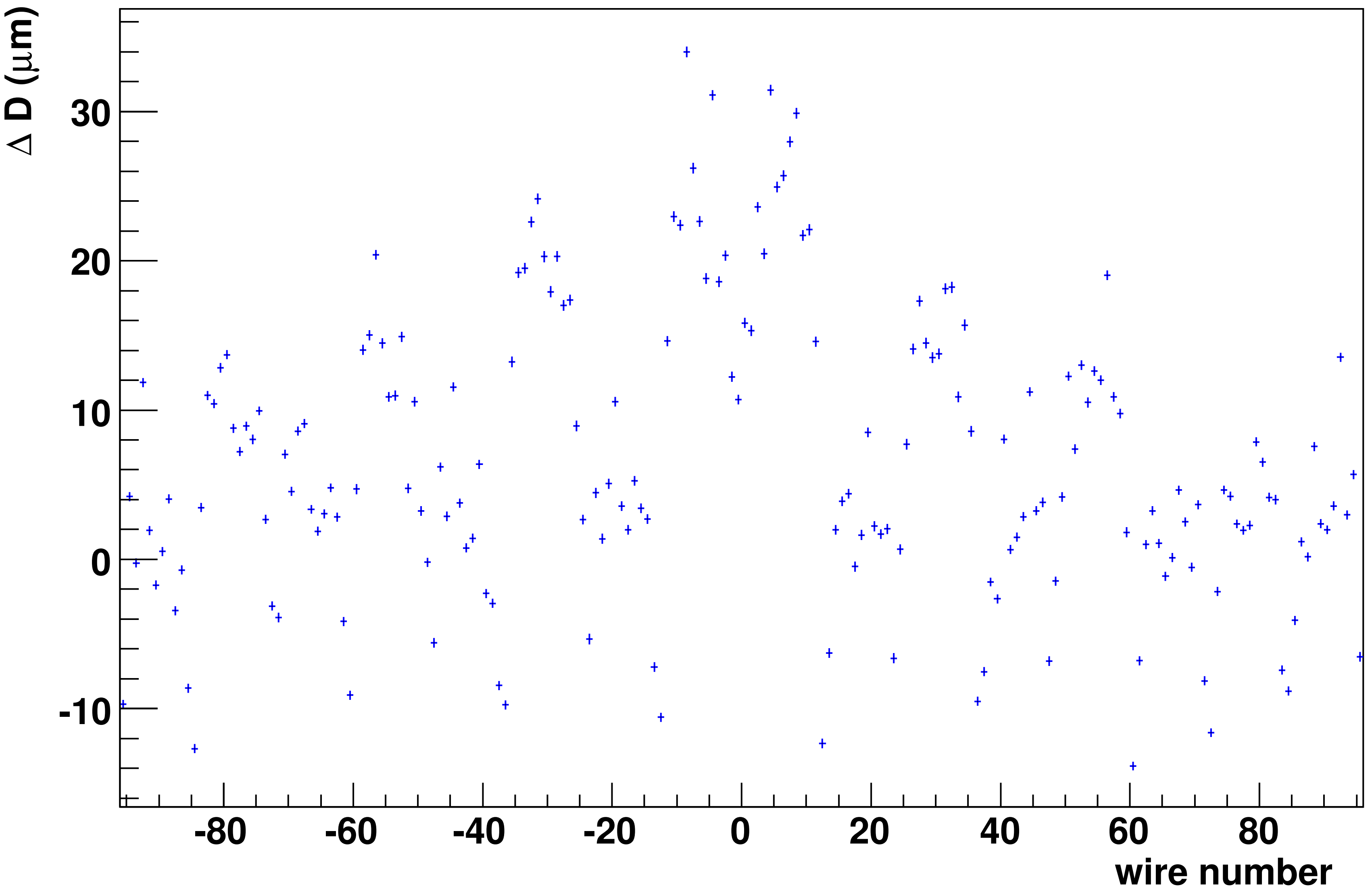

Entries 514823
number of ditracks
ditrack type


Entries 413638
Mean 186.19
RMS 6.1421
Underflow 6
Overflow 0
Integral 4.1363e+05
number of cosmics
60000
40000
20000
0
120
140
160
180
200
number of COT hits on ditrack

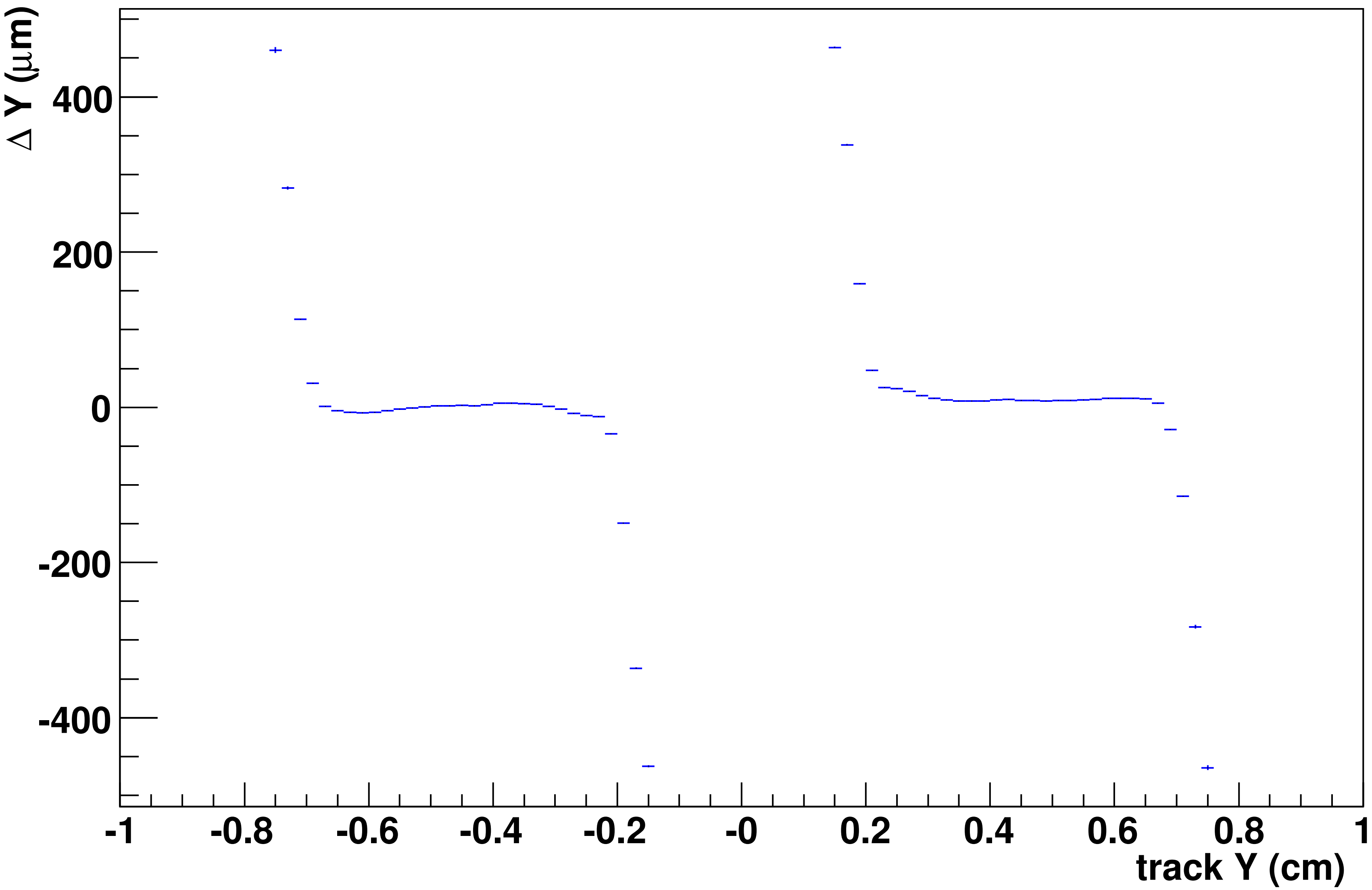

Entries 514823
Mean 272.97
RMS 61.991
Underflow 69178
Overflow 260
Integral 4.4538e+05
number of cosmics
10^5
10^4
10^3
10^2
0
100
200
300
400
500
600
$\Delta\,\chi^2$

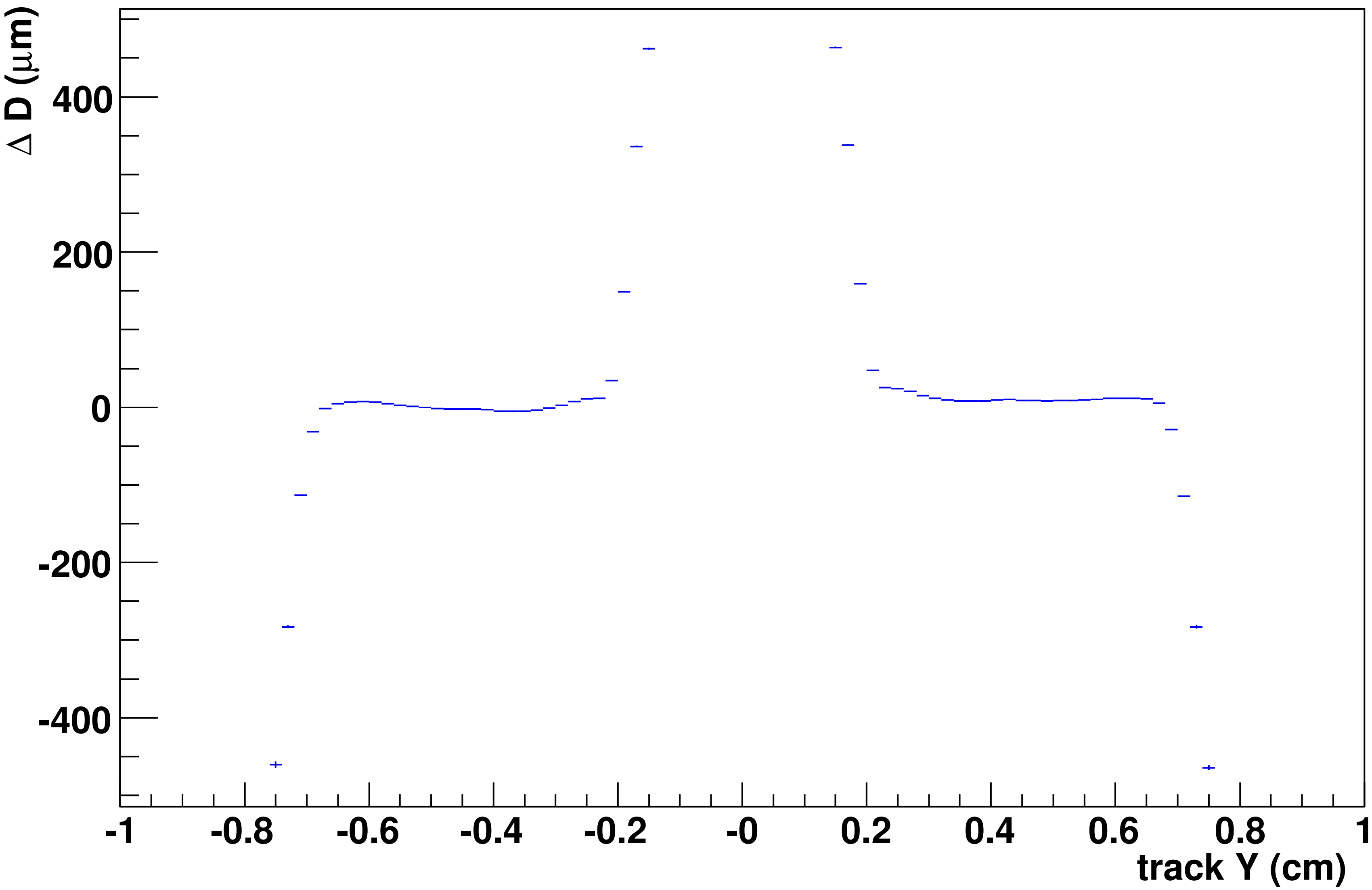

number of cosmics
15000
10000
5000
0
1
2
3
4
5
6
track ϕ_0


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

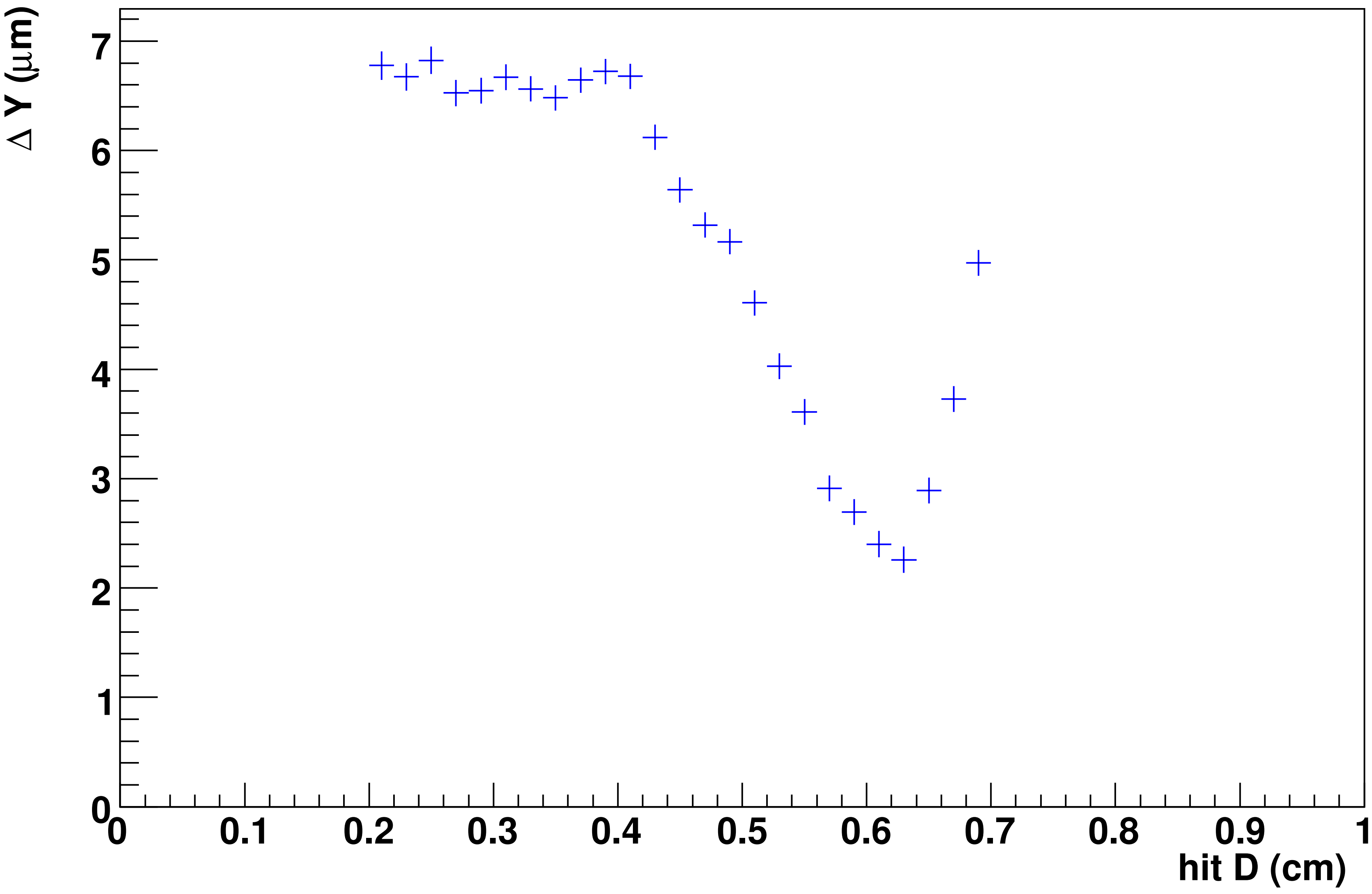


Δ D (μm)
30
20
10
0
-10
-80
-60
-40
-20
0
20
40
60
80
wire number

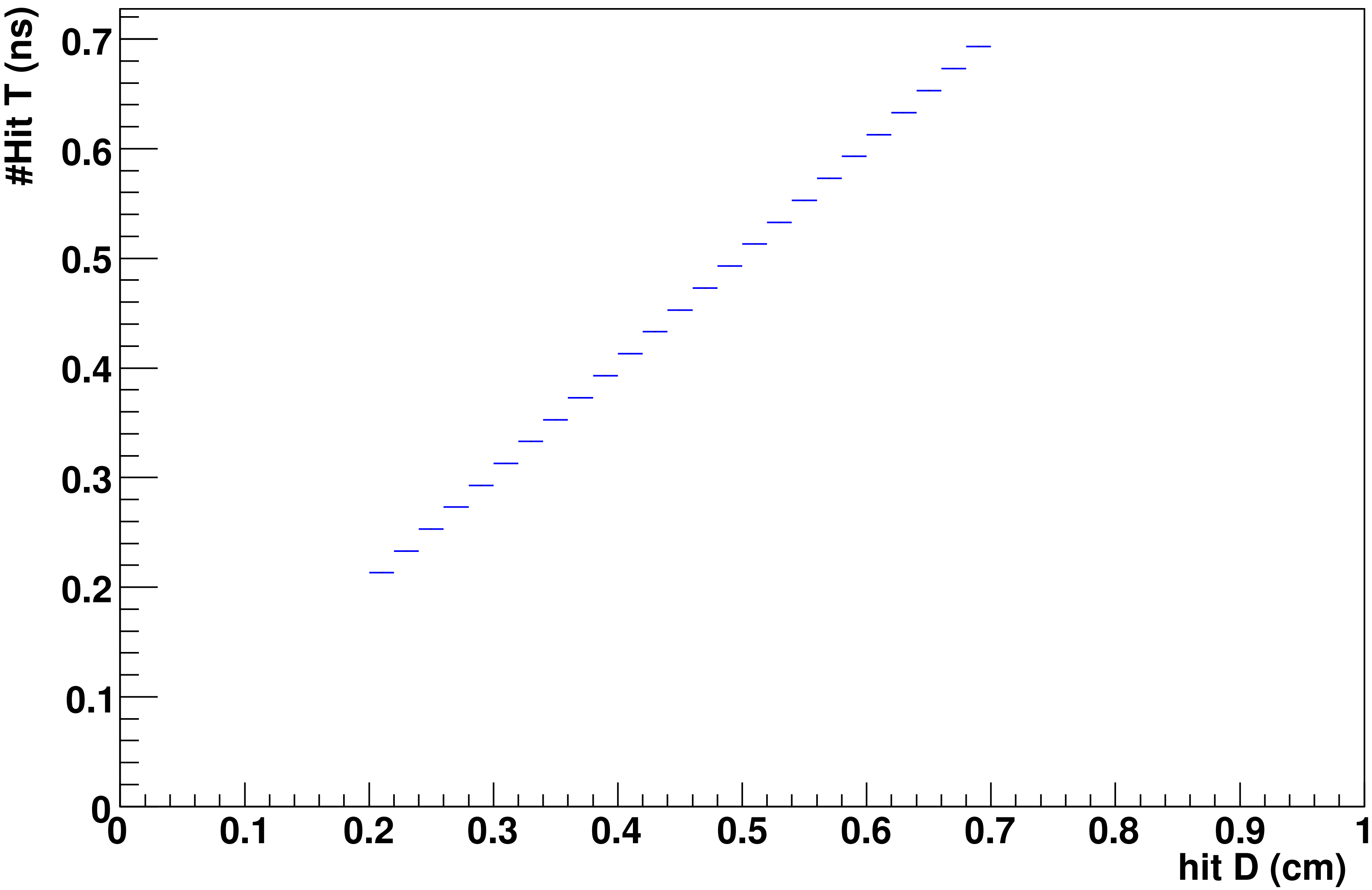

Δ Y (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)

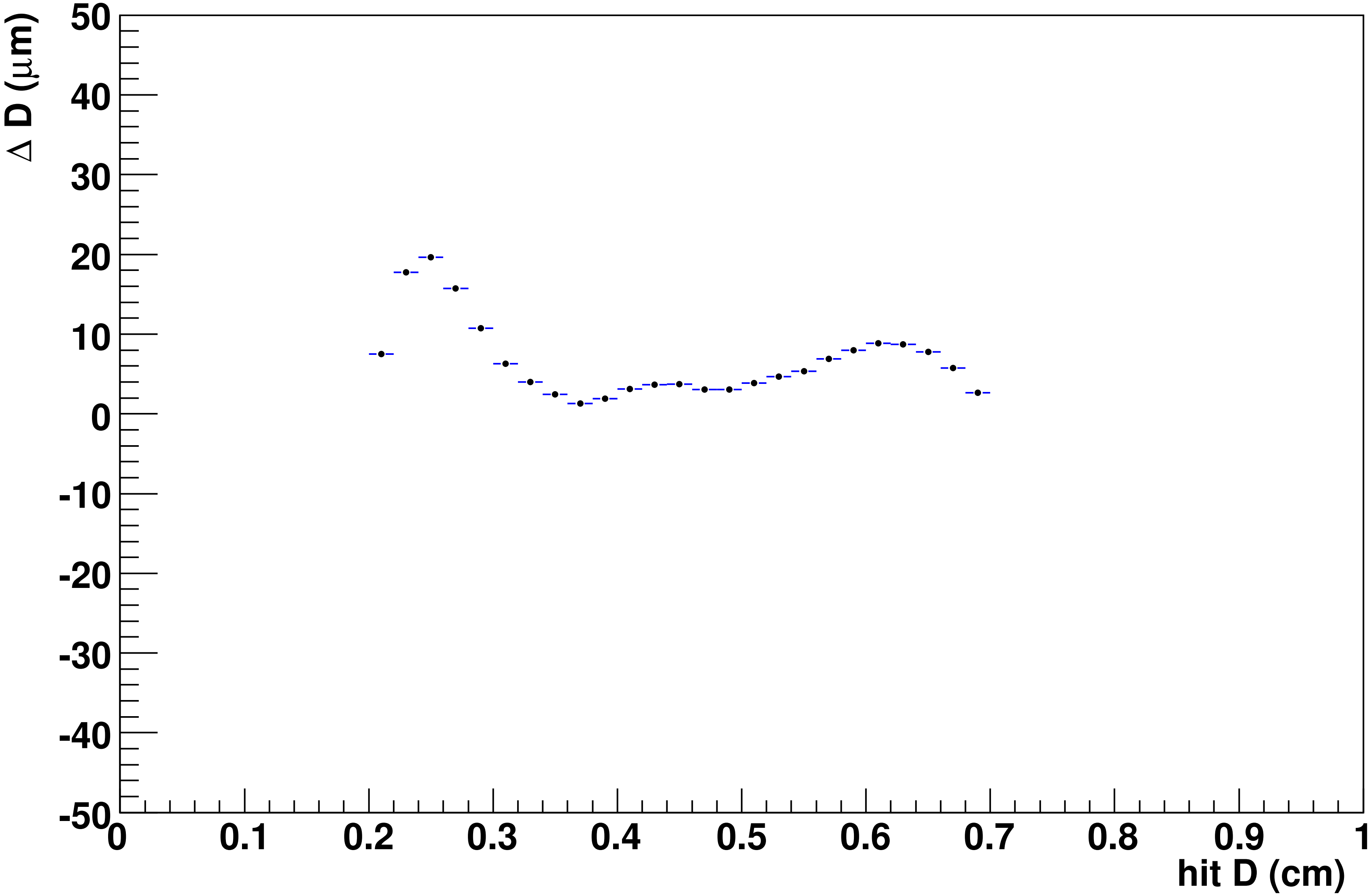


Δ D (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)

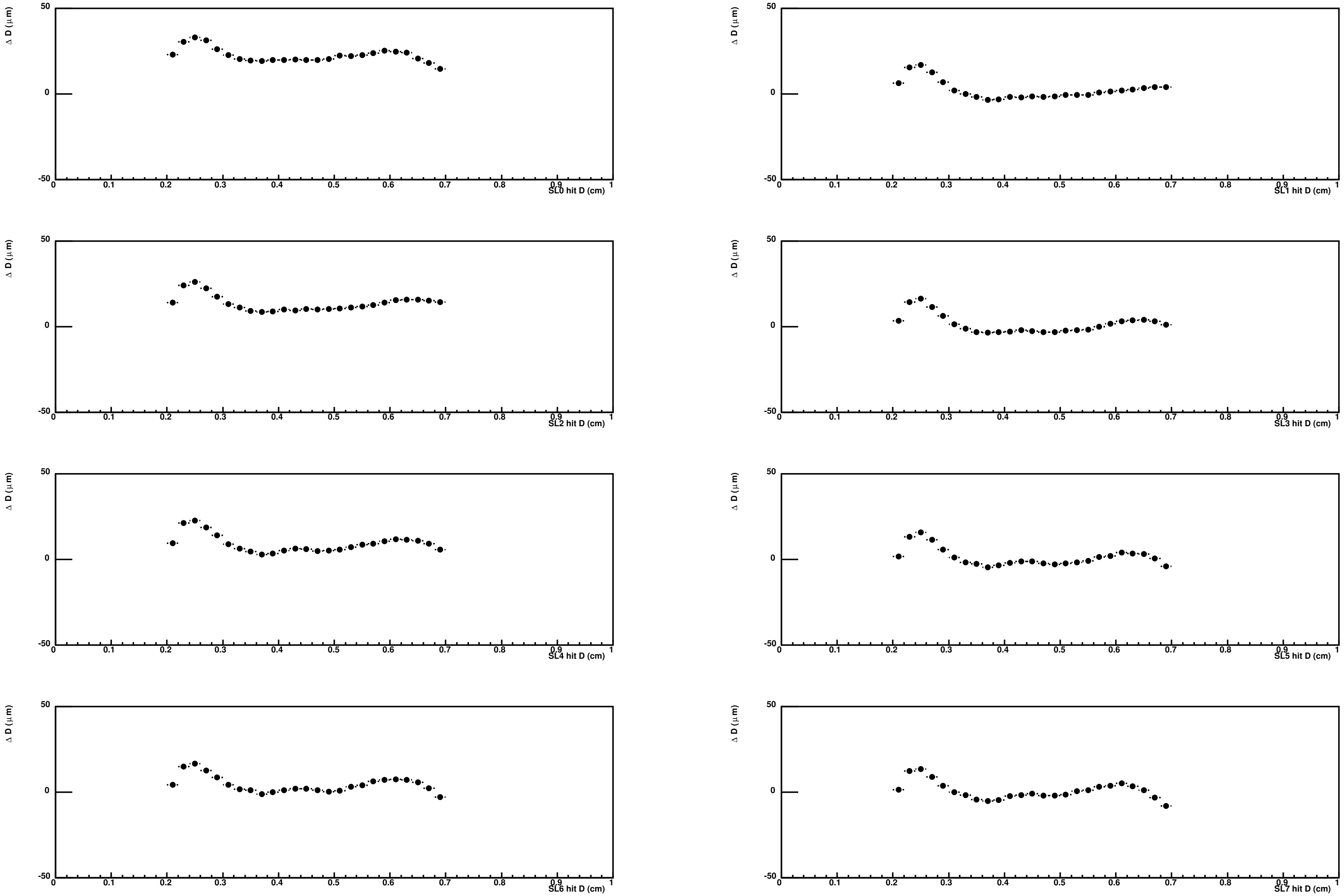


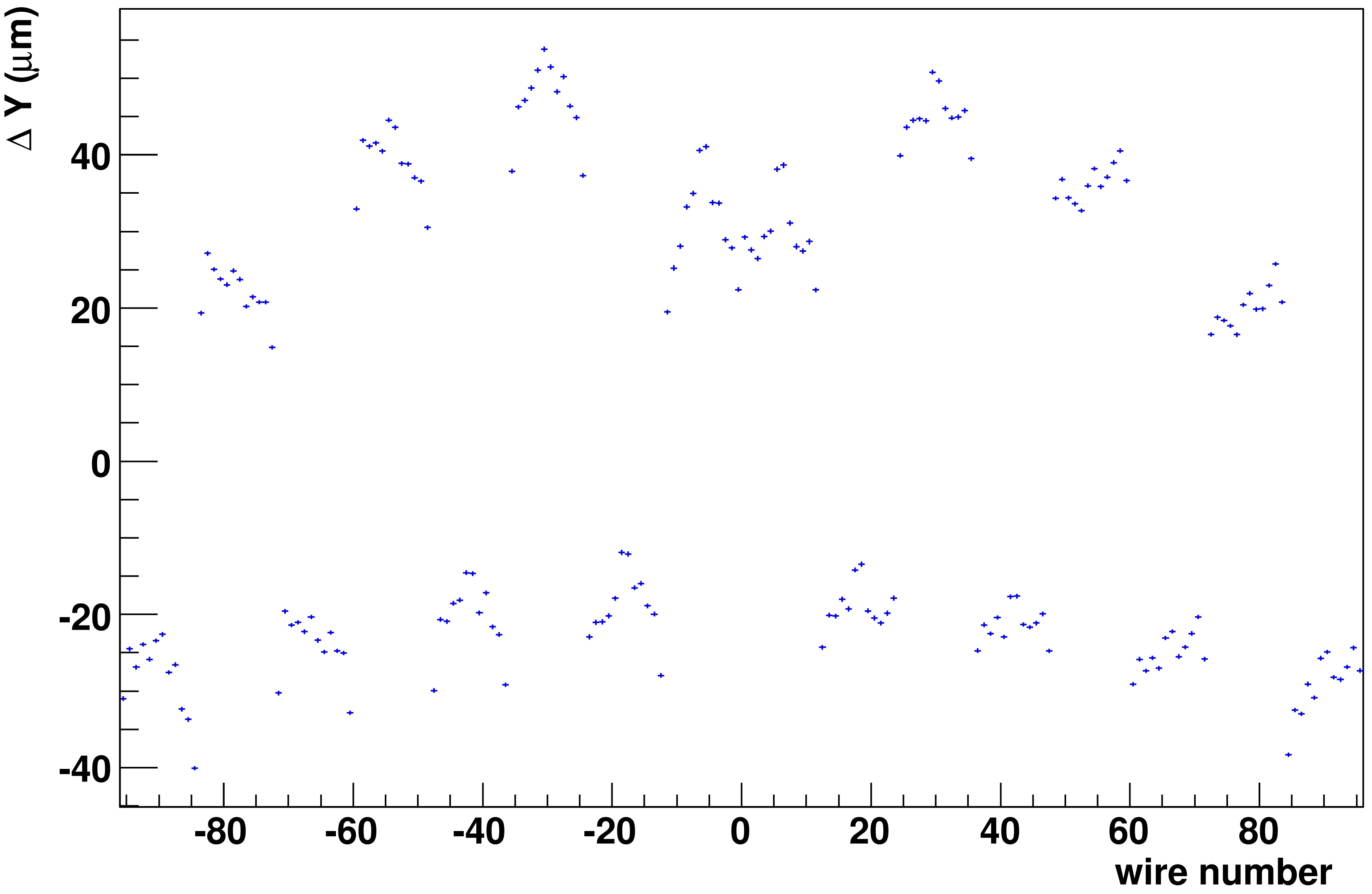
Δ Y (μm)
0
1
2
3
4
5
6
7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)


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

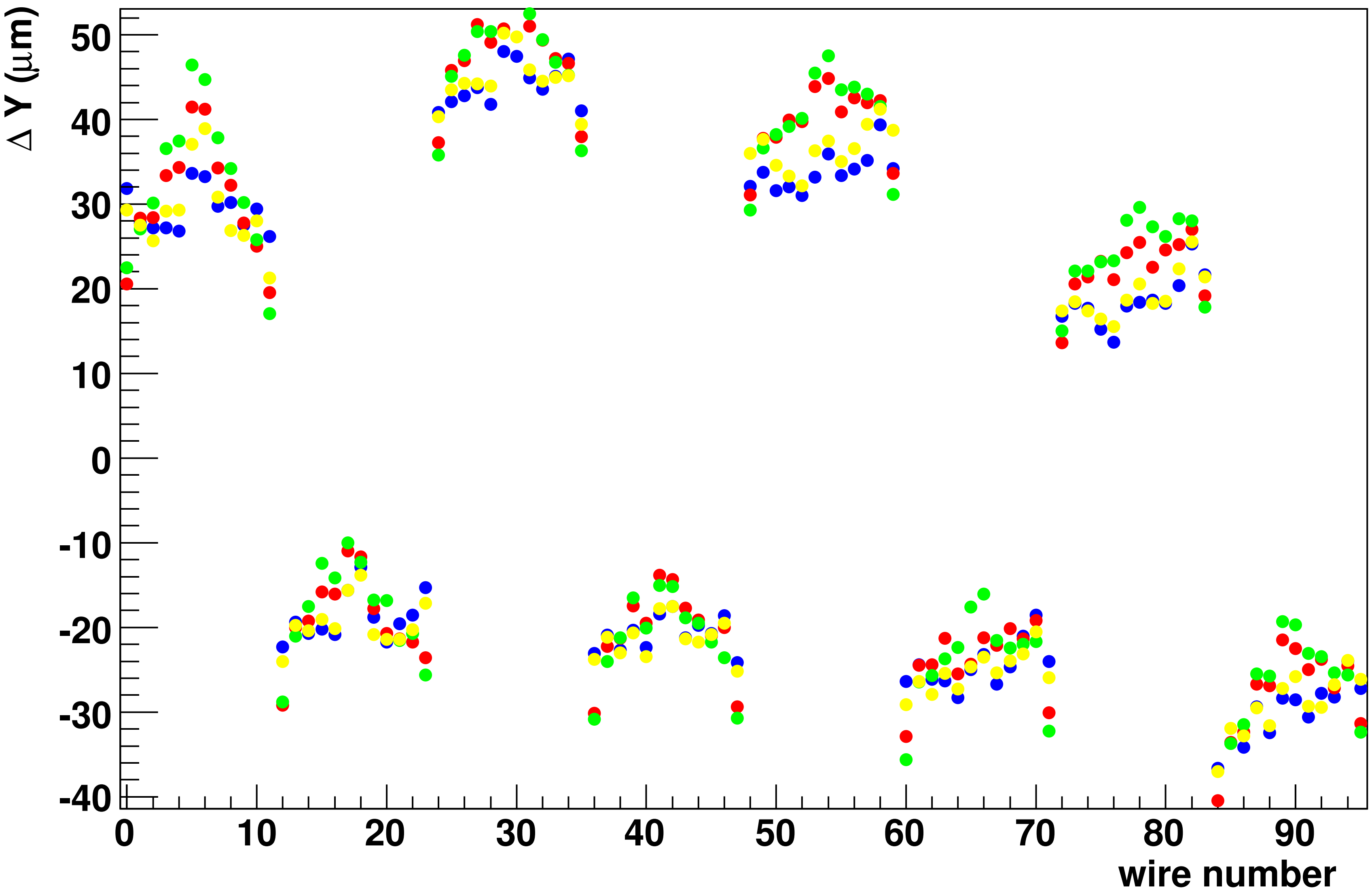


Δ D (μm)
50
40
30
20
10
0
-10
-20
-30
-40
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

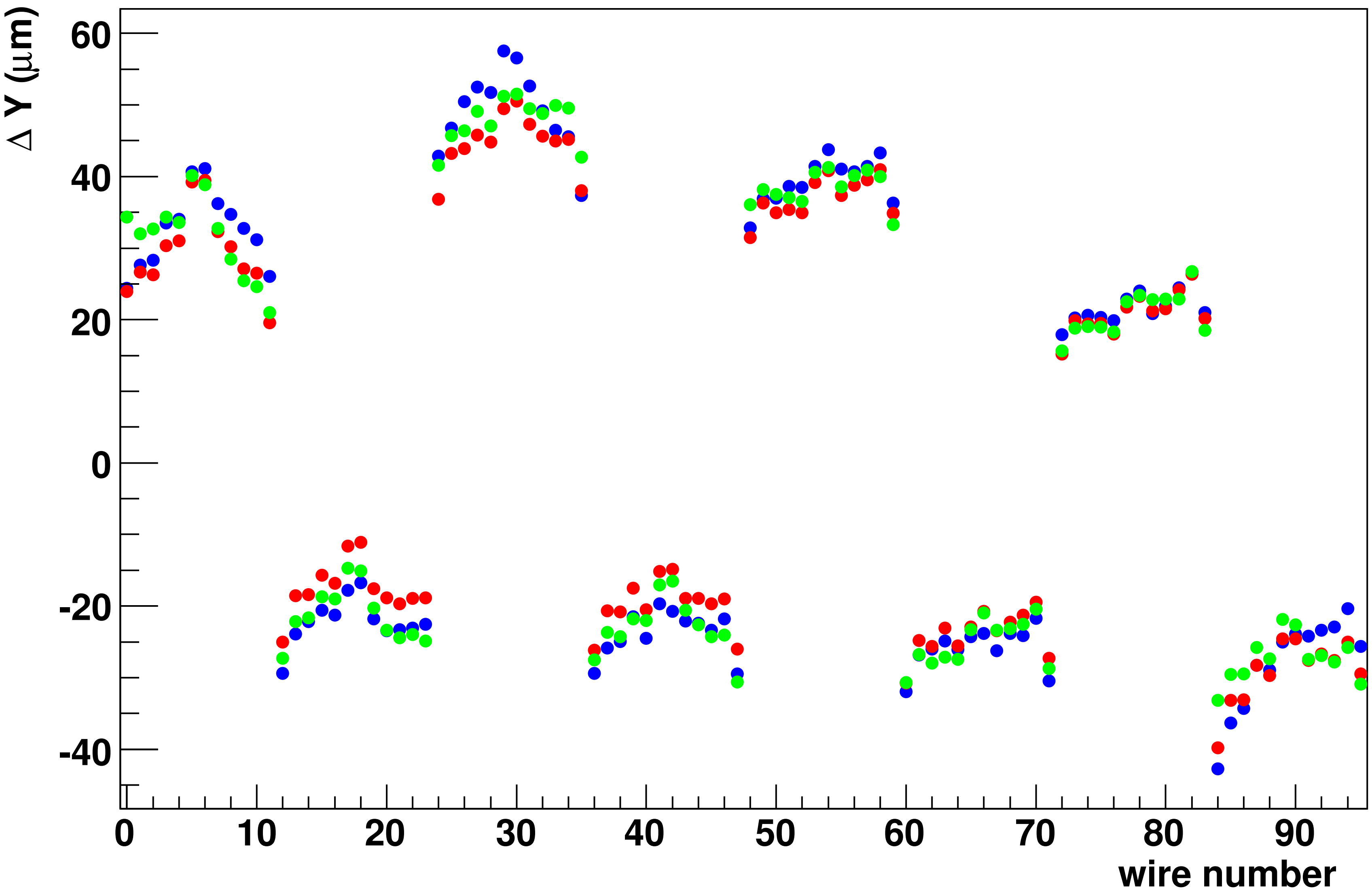

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL0 hit D (cm)
SL1 hit D (cm)
SL2 hit D (cm)
SL3 hit D (cm)
SL4 hit D (cm)
SL5 hit D (cm)
SL6 hit D (cm)
SL7 hit D (cm)



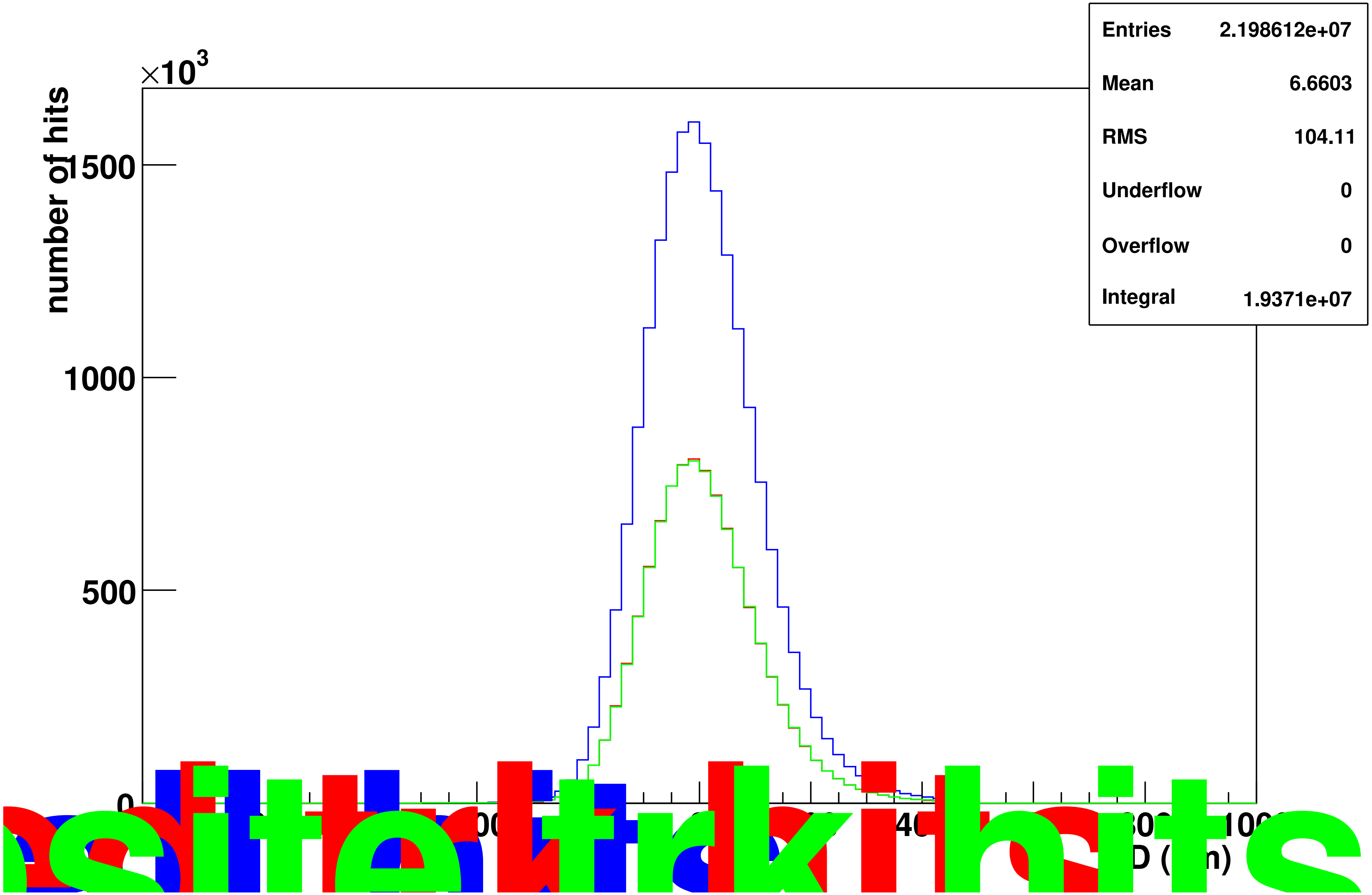
Δ Y (μm)
40
20
0
-20
-40
-80
-60
-40
-20
0
20
40
60
80
wire number

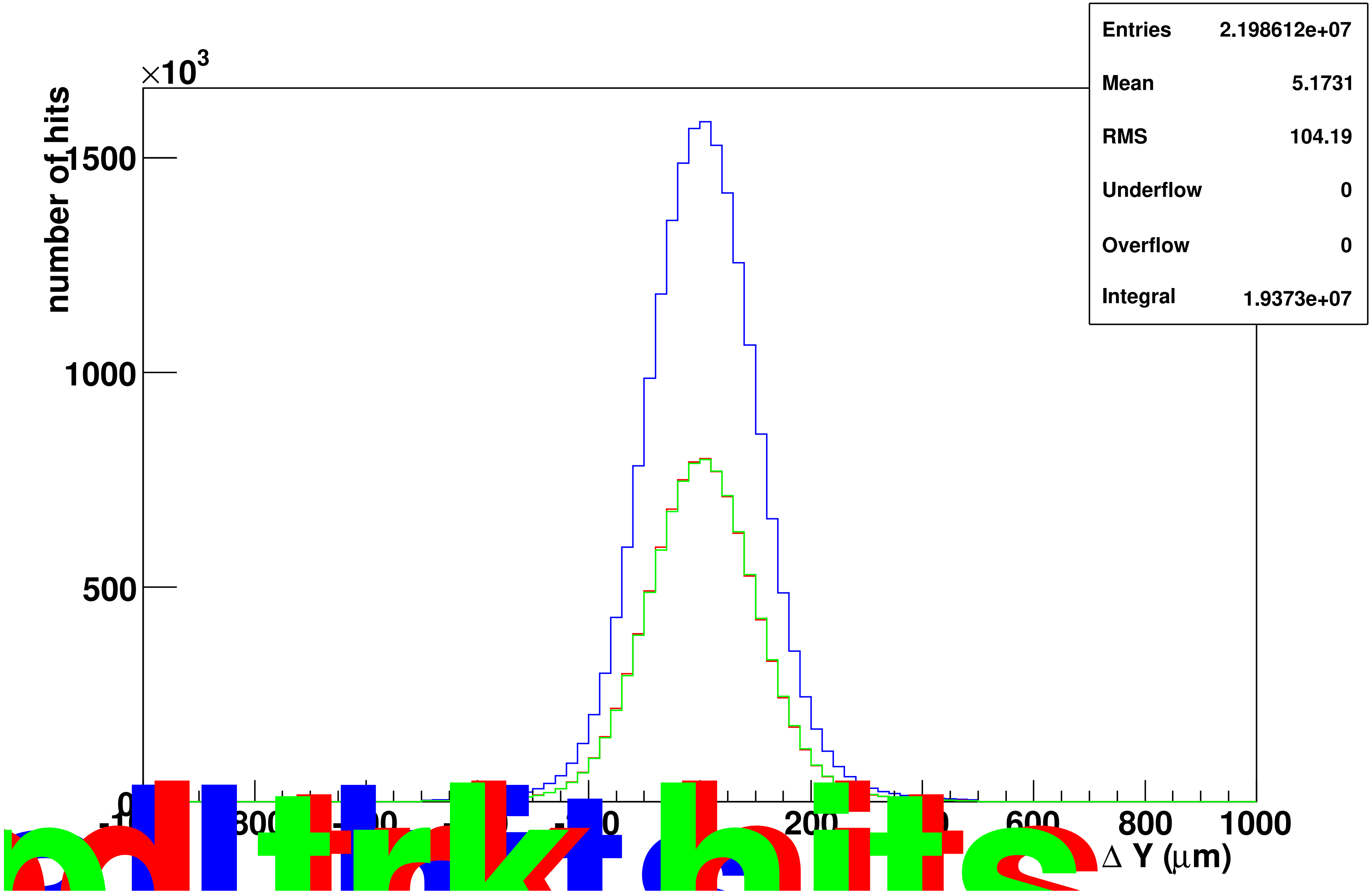


Δ Y (μm)
50
40
30
20
10
0
-10
-20
-30
-40
0
10
20
30
40
50
60
70
80
90
wire number

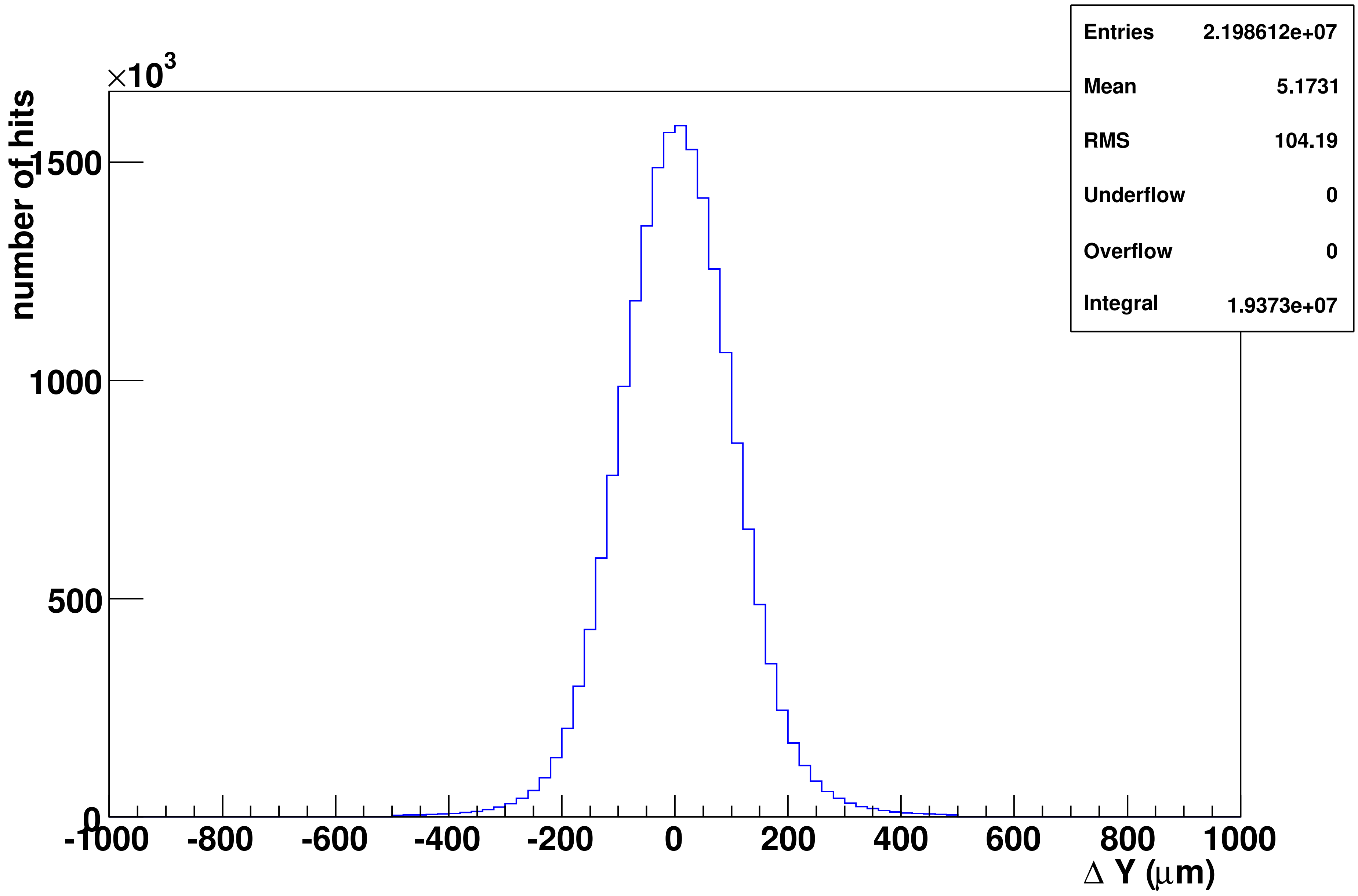


Δ Y (μm)
60
40
20
0
-20
-40
0
10
20
30
40
50
60
70
80
90
wire number


Entries 2.198612e+07
Mean 6.6603
RMS 104.11
Underflow 0
Overflow 0
Integral 1.9371e+07
×10^3
number of hits
1500
1000
500
0



Entries 2.198612e+07
Mean 5.1731
RMS 104.19
Underflow 0
Overflow 0
Integral 1.9373e+07
×10^3
number of hits
1500
1000
500
0
200
600
800
1000
Δ Y (μm)


Entries 2.198612e+07
Mean 5.1731
RMS 104.19
Underflow 0
Overflow 0
Integral 1.9373e+07
$\times 10^3$
number of hits
0
500
1000
1500
-1000
-800
-600
-400
-200
0
200
400
600
800
1000
Δ Y (μm)