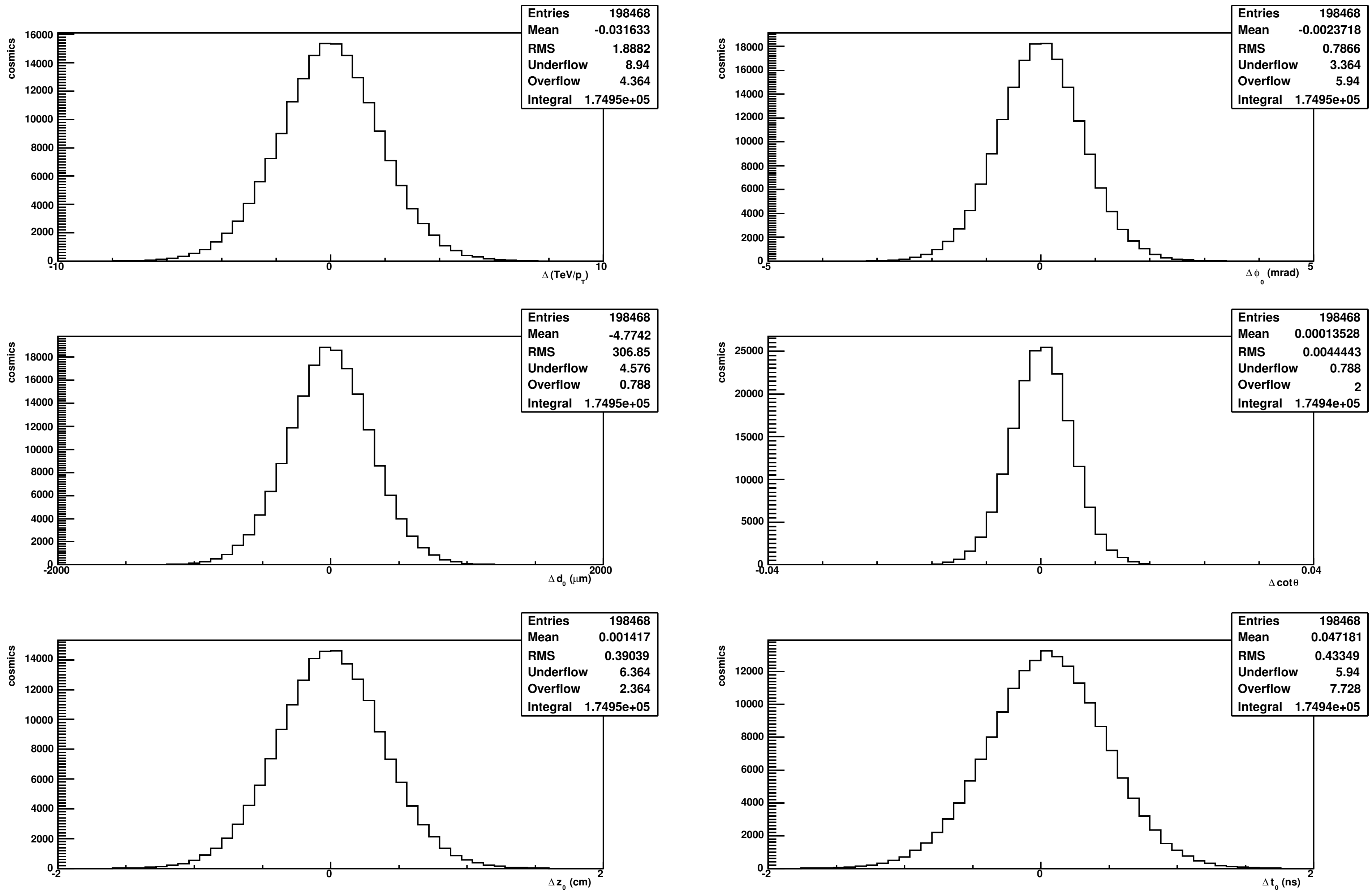
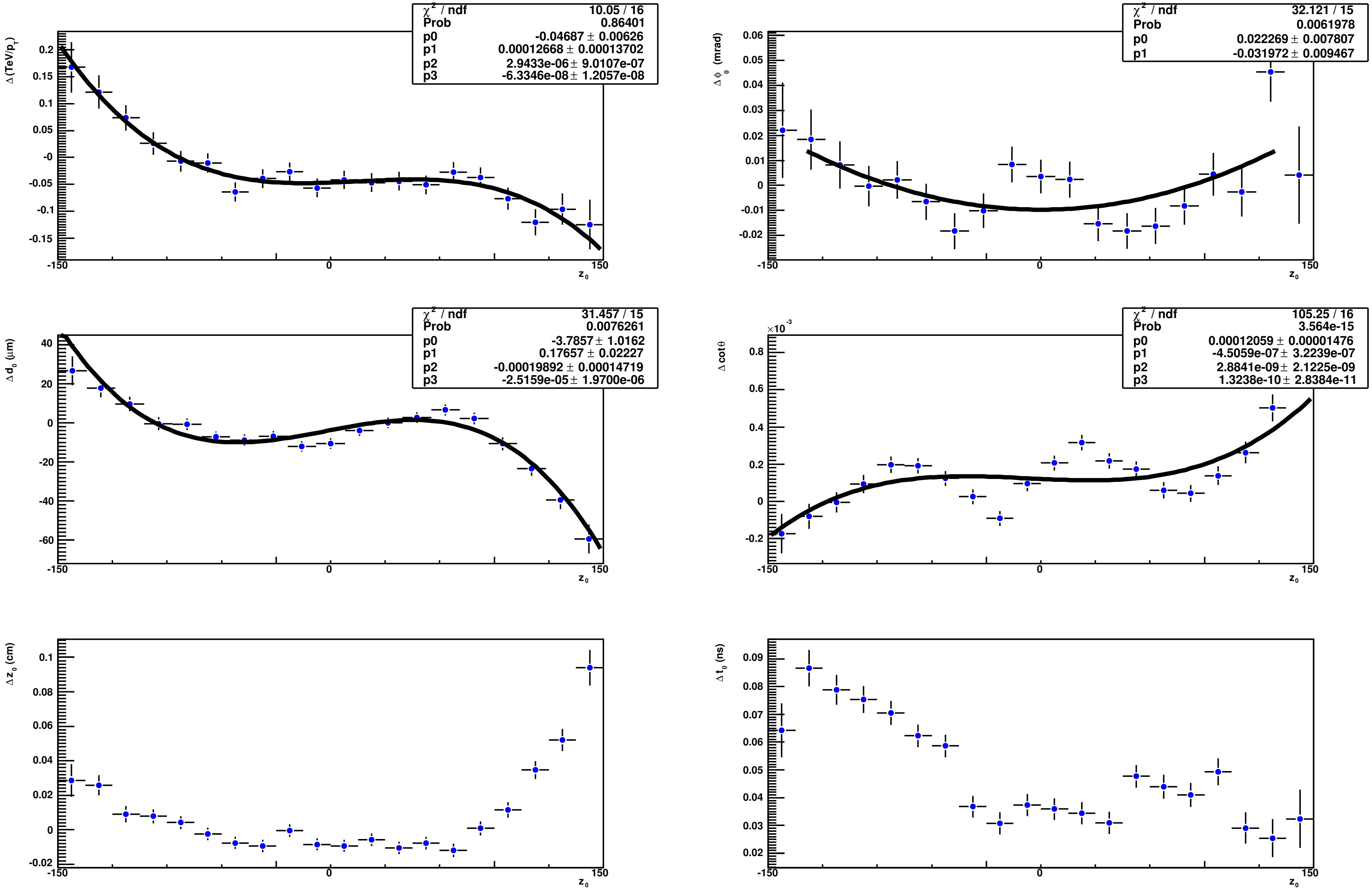
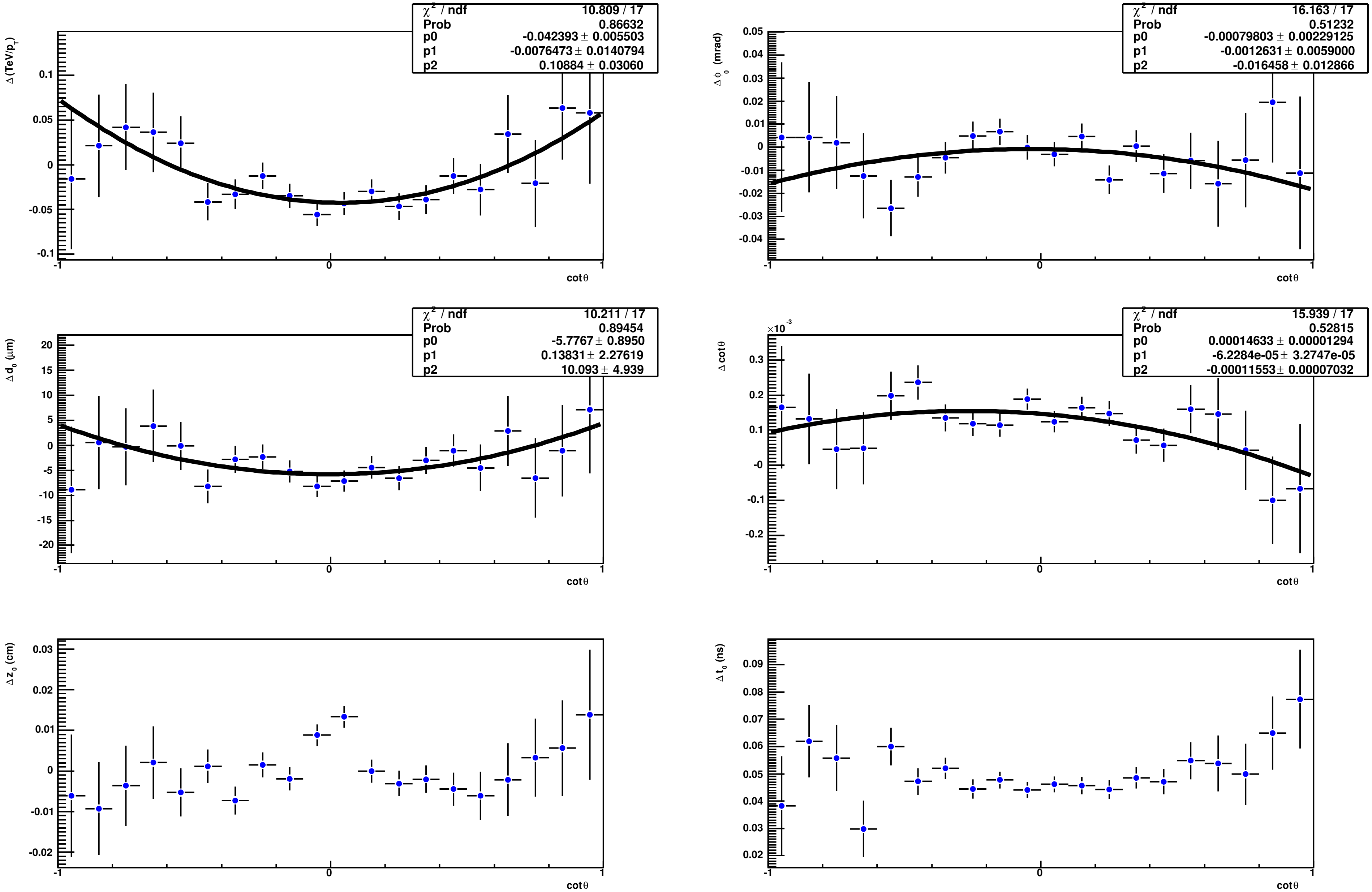
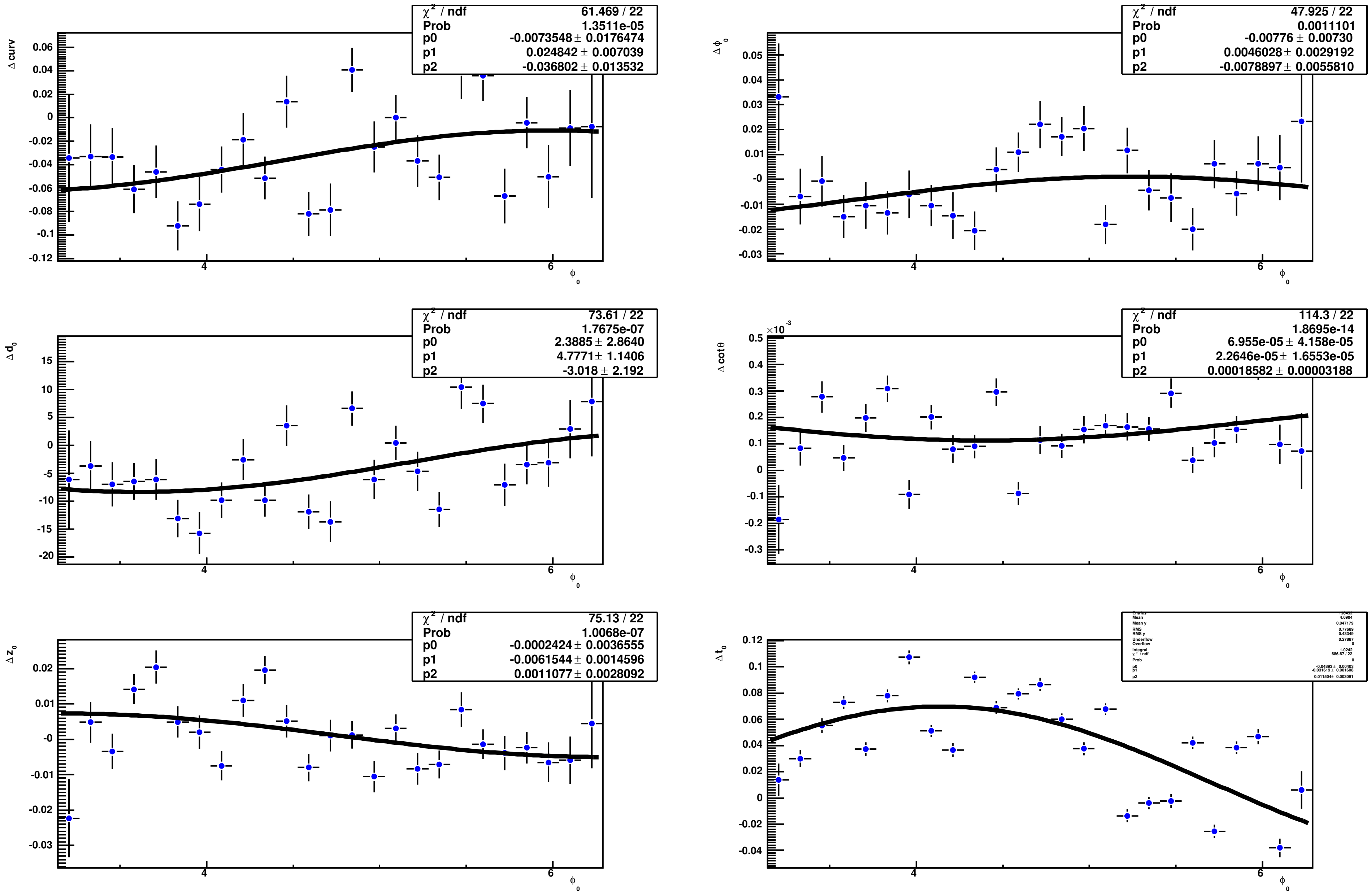


Entries 198468
Mean -0.031633
RMS 1.8882
Underflow 8.94
Overflow 4.364
Integral 1.7495e+05
cosmics
Δ(TeV/p_T)
Entries 198468
Mean -0.0023718
RMS 0.7866
Underflow 3.364
Overflow 5.94
Integral 1.7495e+05
cosmics
Δφ_0 (mrad)
Entries 198468
Mean -4.7742
RMS 306.85
Underflow 4.576
Overflow 0.788
Integral 1.7495e+05
cosmics
Δd_0 (μm)
Entries 198468
Mean 0.00013528
RMS 0.0044443
Underflow 0.788
Overflow 2
Integral 1.7494e+05
cosmics
Δcotθ
Entries 198468
Mean 0.001417
RMS 0.39039
Underflow 6.364
Overflow 2.364
Integral 1.7495e+05
cosmics
Δz_0 (cm)
Entries 198468
Mean 0.047181
RMS 0.43349
Underflow 5.94
Overflow 7.728
Integral 1.7494e+05
cosmics
Δt_0 (ns)

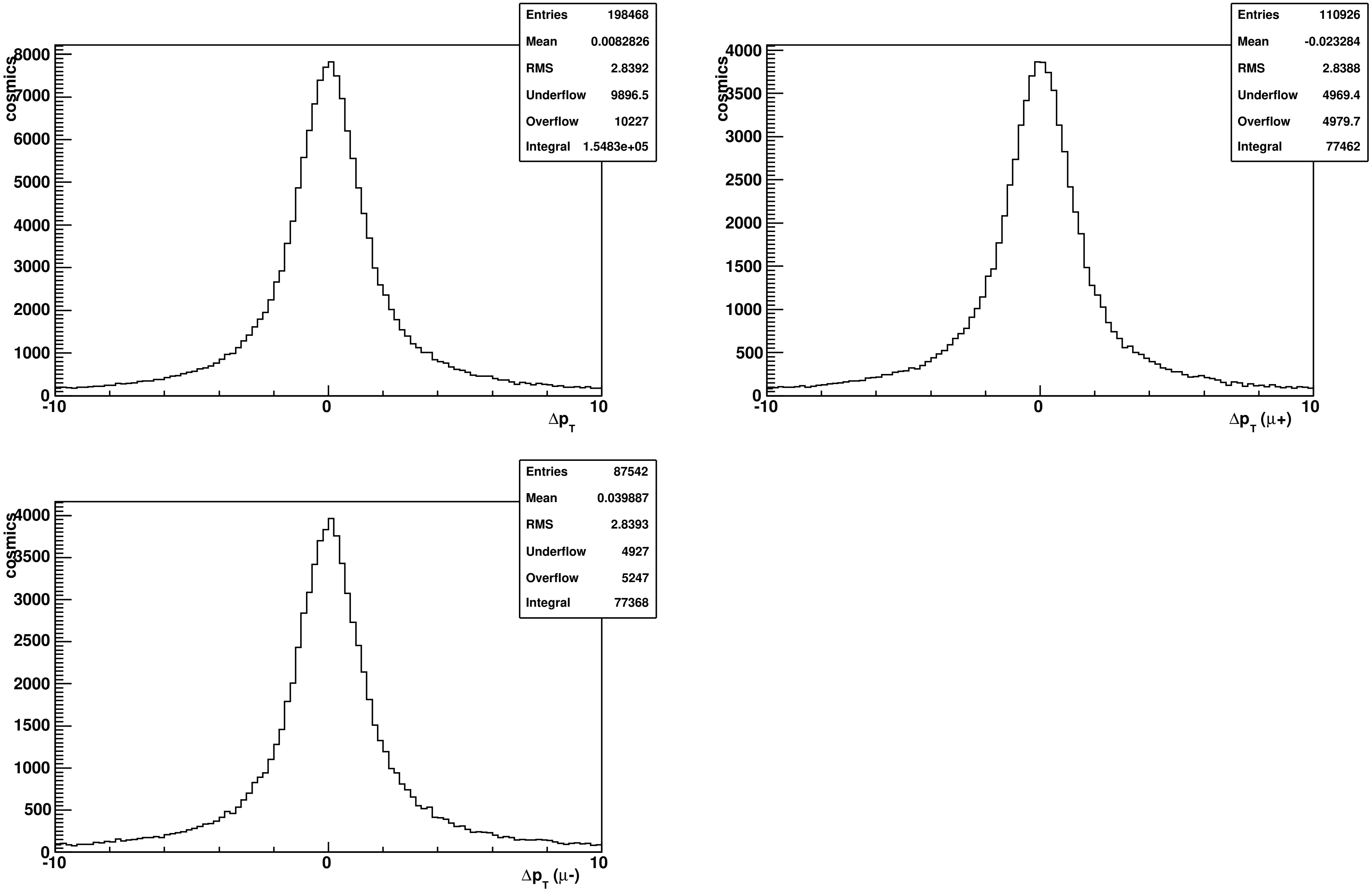


χ2 / ndf 10.05 / 16
Prob 0.86401
p0 -0.04687 ± 0.00626
p1 0.00012668 ± 0.00013702
p2 2.9433e-06 ± 9.0107e-07
p3 -6.3346e-08 ± 1.2057e-08
Δ(TeV/pT)
z0
χ2 / ndf 32.121 / 15
Prob 0.0061978
p0 0.022269 ± 0.007807
p1 -0.031972 ± 0.009467
Δφ0 (mrad)
z0
χ2 / ndf 31.457 / 15
Prob 0.0076261
p0 -3.7857 ± 1.0162
p1 0.17657 ± 0.02227
p2 -0.00019892 ± 0.00014719
p3 -2.5159e-05 ± 1.9700e-06
Δd0 (μm)
z0
χ2 / ndf 105.25 / 16
Prob 3.564e-15
p0 0.00012059 ± 0.00001476
p1 -4.5059e-07 ± 3.2239e-07
p2 2.8841e-09 ± 2.1225e-09
p3 1.3238e-10 ± 2.8384e-11
×10-3
Δcotθ
z0
Δz0 (cm)
z0
Δt0 (ns)
z0

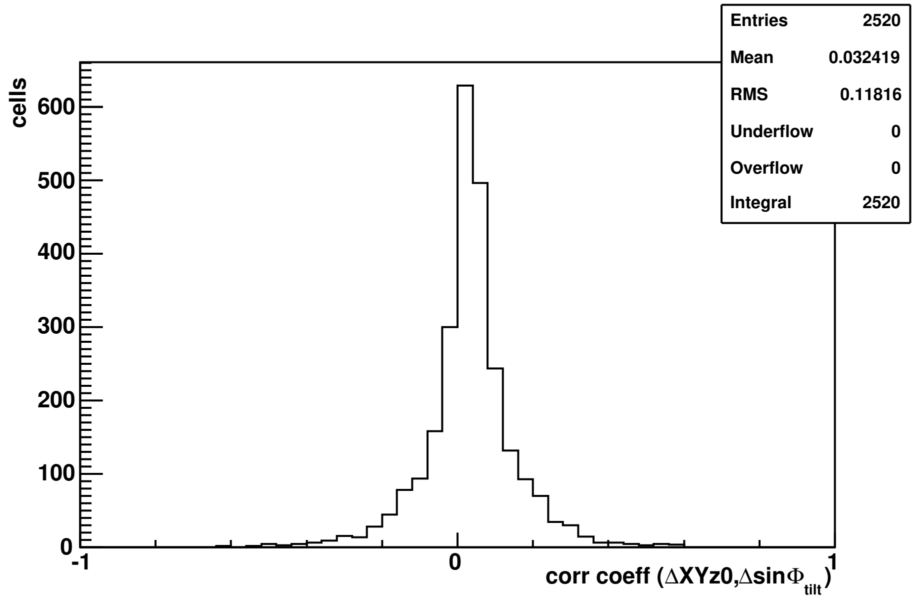

χ² / ndf 10.809 / 17
Prob 0.86632
p0 -0.042393 ± 0.005503
p1 -0.0076473 ± 0.0140794
p2 0.10884 ± 0.03060
Δ(TeV/p_T)
cotθ
χ² / ndf 16.163 / 17
Prob 0.51232
p0 -0.00079803 ± 0.00229125
p1 -0.0012631 ± 0.0059000
p2 -0.016458 ± 0.012866
Δφ_0 (mrad)
cotθ
χ² / ndf 10.211 / 17
Prob 0.89454
p0 -5.7767 ± 0.8950
p1 0.13831 ± 2.27619
p2 10.093 ± 4.939
Δd_0 (μm)
cotθ
χ² / ndf 15.939 / 17
Prob 0.52815
p0 0.00014633 ± 0.00001294
p1 -6.2284e-05 ± 3.2747e-05
p2 -0.00011553 ± 0.00007032
×10⁻³
Δcotθ
cotθ
Δz_0 (cm)
cotθ
Δt_0 (ns)
cotθ

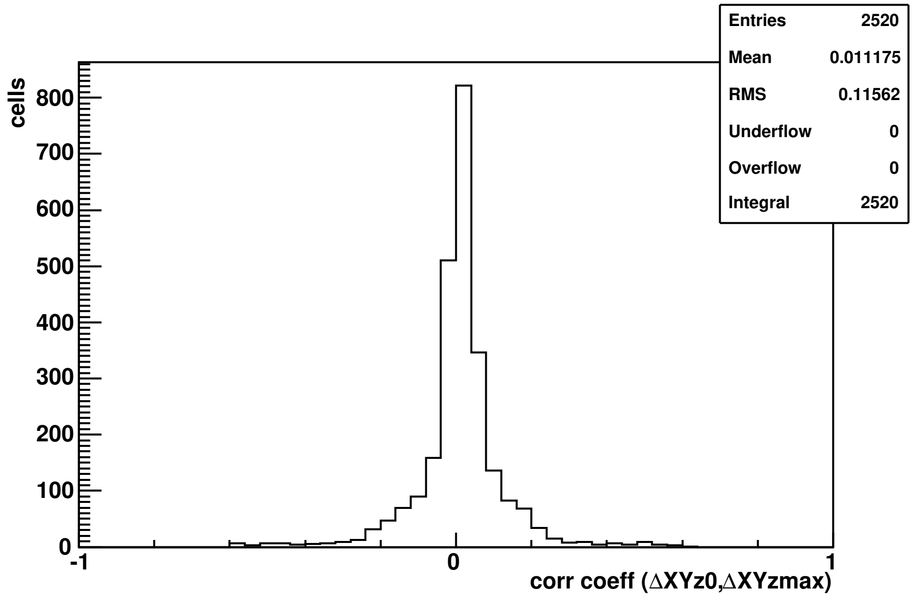


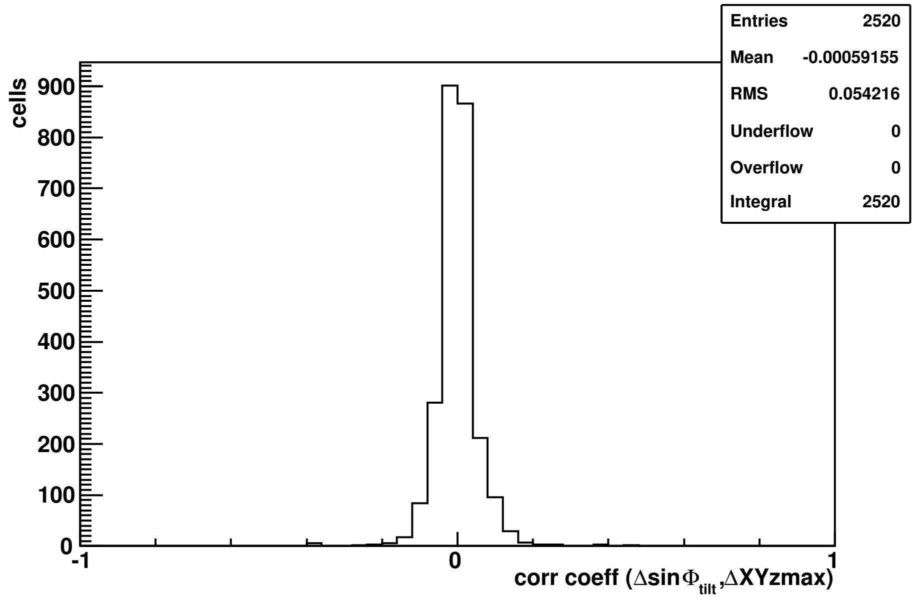
χ2 / ndf 61.469 / 22
Prob 1.3511e-05
p0 -0.0073548 ± 0.0176474
p1 0.024842 ± 0.007039
p2 -0.036802 ± 0.013532
Δ curv
ϕ0
χ2 / ndf 47.925 / 22
Prob 0.0011101
p0 -0.00776 ± 0.00730
p1 0.0046028 ± 0.0029192
p2 -0.0078897 ± 0.0055810
Δ ϕ0
ϕ0
χ2 / ndf 73.61 / 22
Prob 1.7675e-07
p0 2.3885 ± 2.8640
p1 4.7771 ± 1.1406
p2 -3.018 ± 2.192
Δ d0
ϕ0
χ2 / ndf 114.3 / 22
Prob 1.8695e-14
p0 6.955e-05 ± 4.158e-05
p1 2.2646e-05 ± 1.6553e-05
p2 0.00018582 ± 0.00003188
Δ cotθ
×10-3
ϕ0
χ2 / ndf 75.13 / 22
Prob 1.0068e-07
p0 -0.0002424 ± 0.0036555
p1 -0.0061544 ± 0.0014596
p2 0.0011077 ± 0.0028092
Δ z0
ϕ0
Δ t0
ϕ0

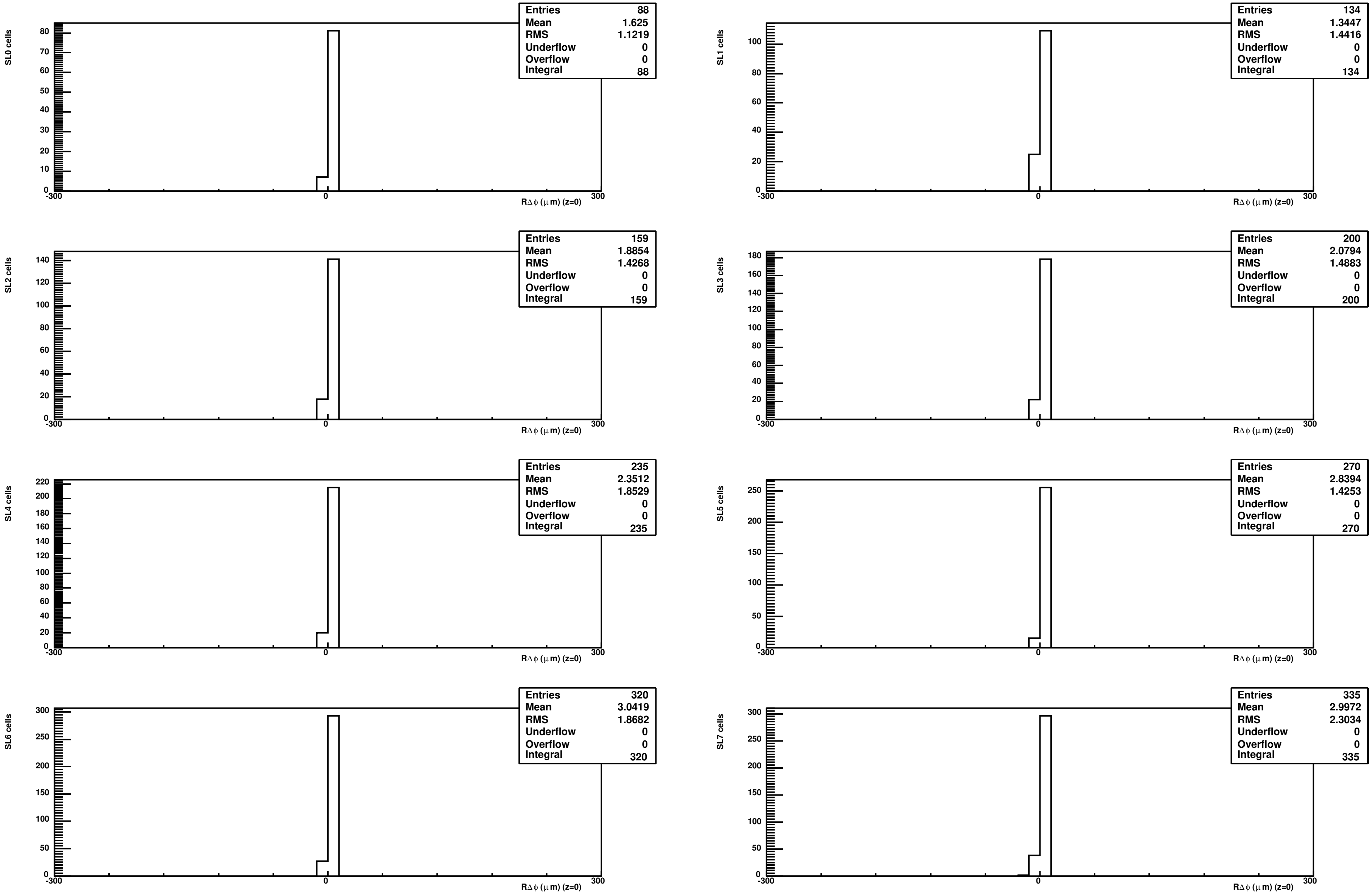


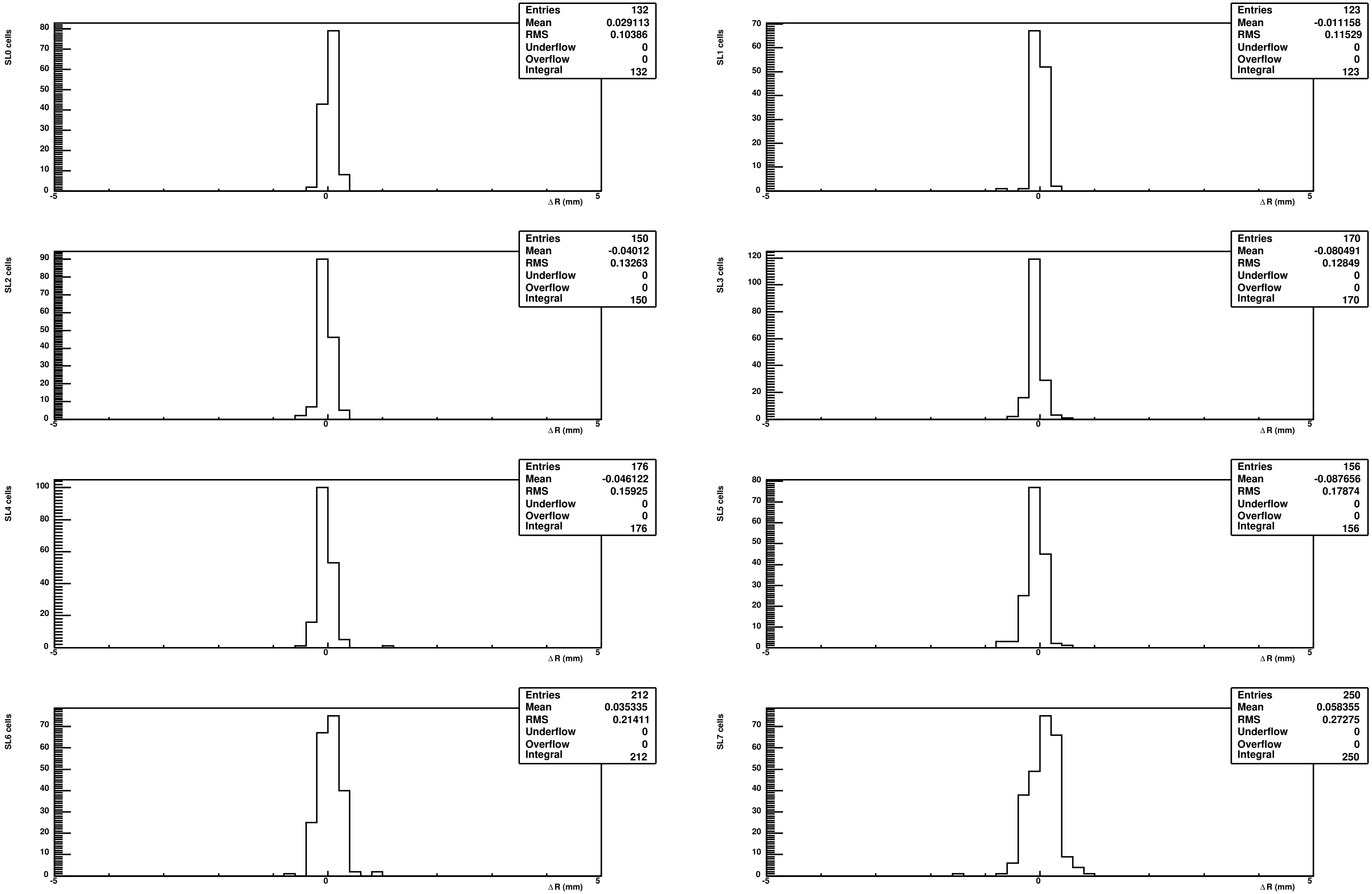
Entries 198468
Mean 0.0082826
RMS 2.8392
Underflow 9896.5
Overflow 10227
Integral 1.5483e+05
cosmics
Δp_T
Entries 110926
Mean -0.023284
RMS 2.8388
Underflow 4969.4
Overflow 4979.7
Integral 77462
cosmics
Δp_T (μ+)
Entries 87542
Mean 0.039887
RMS 2.8393
Underflow 4927
Overflow 5247
Integral 77368
cosmics
Δp_T (μ-)

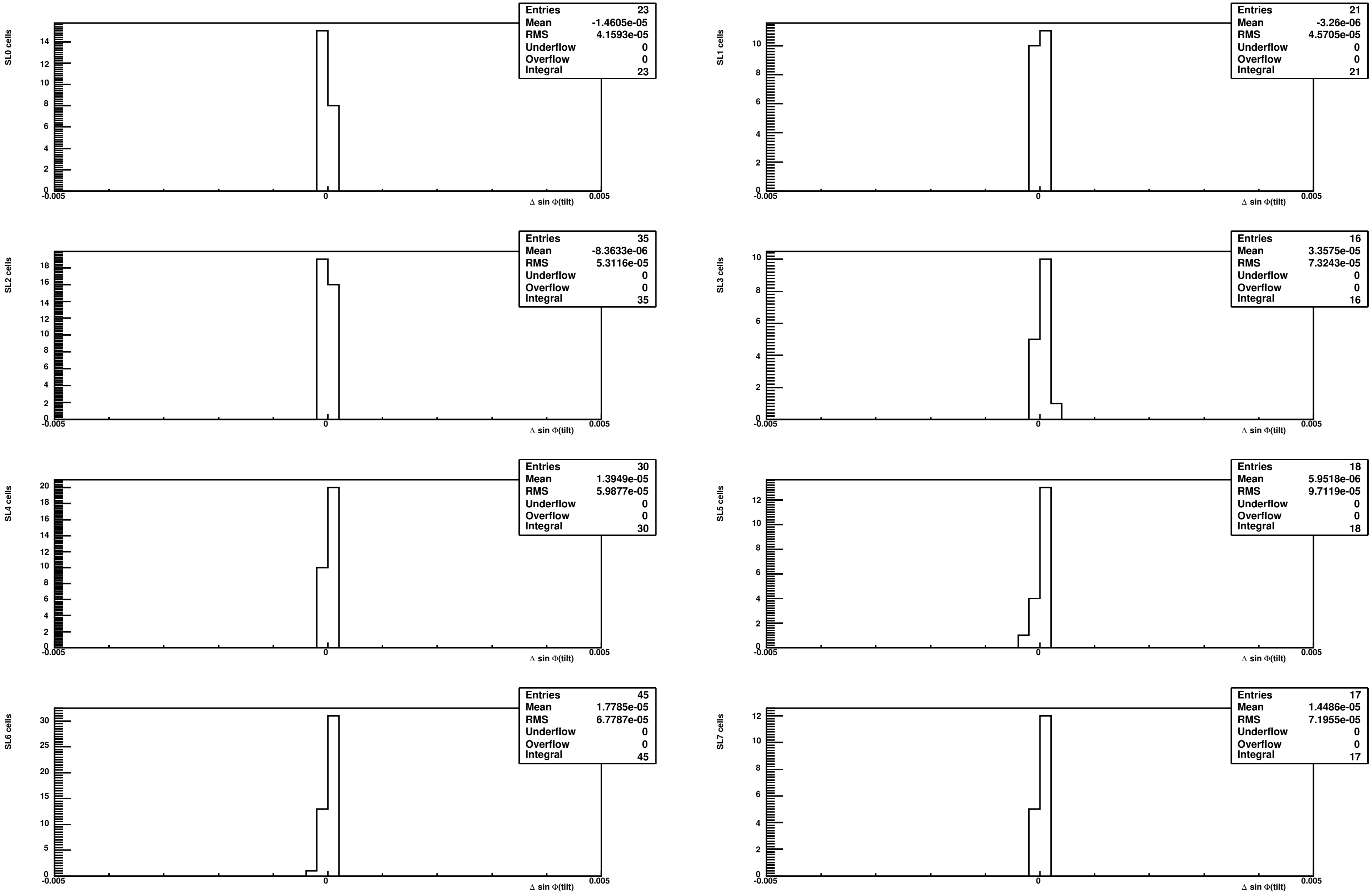

Entries 2520
Mean 0.032419
RMS 0.11816
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔsinΦ_{tilt})

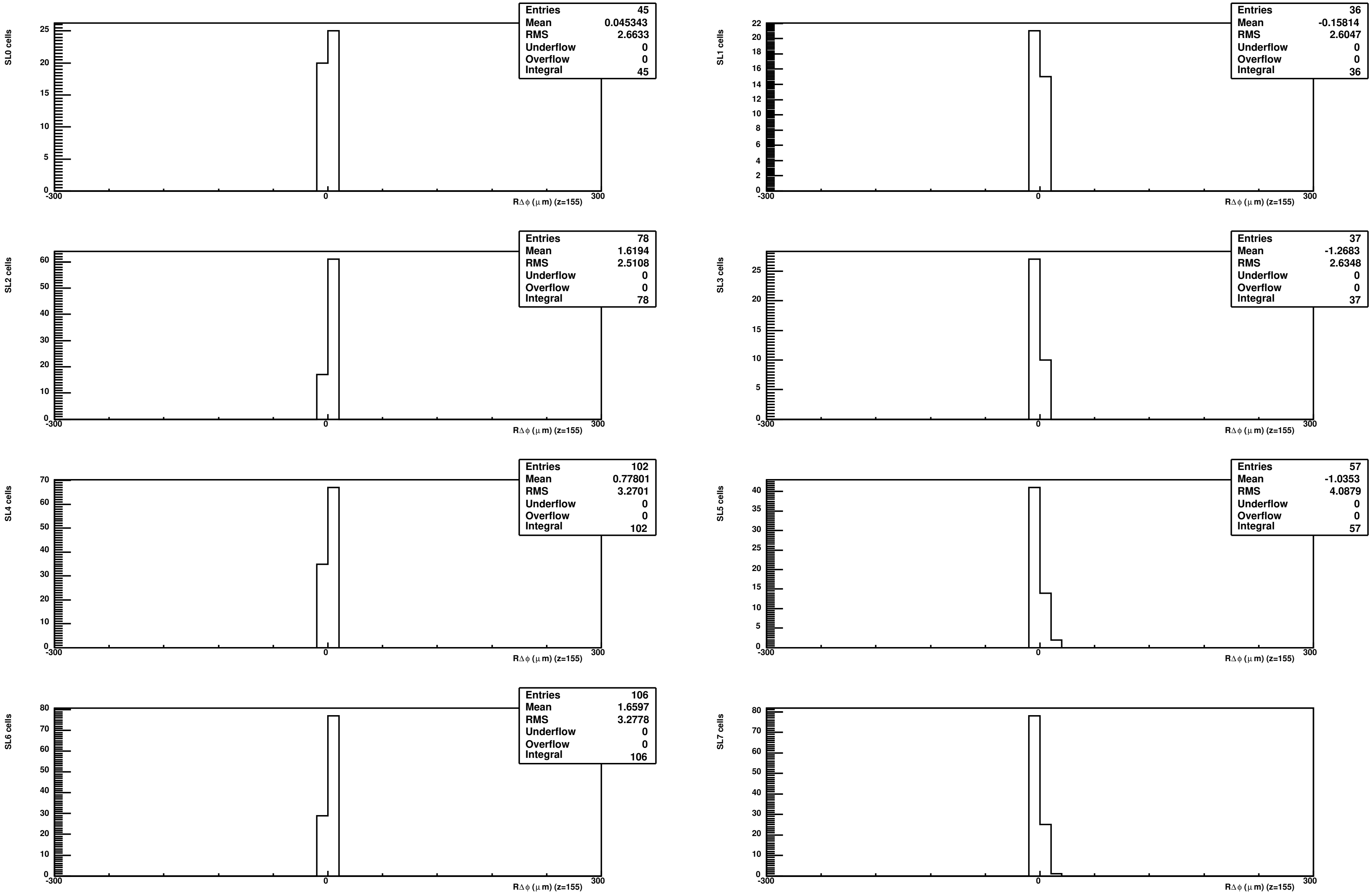

Entries 2520
Mean 0.011175
RMS 0.11562
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔXYzmax)


Entries 2520
Mean -0.00059155
RMS 0.054216
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔsinΦ_{tilt},ΔXYzmax)

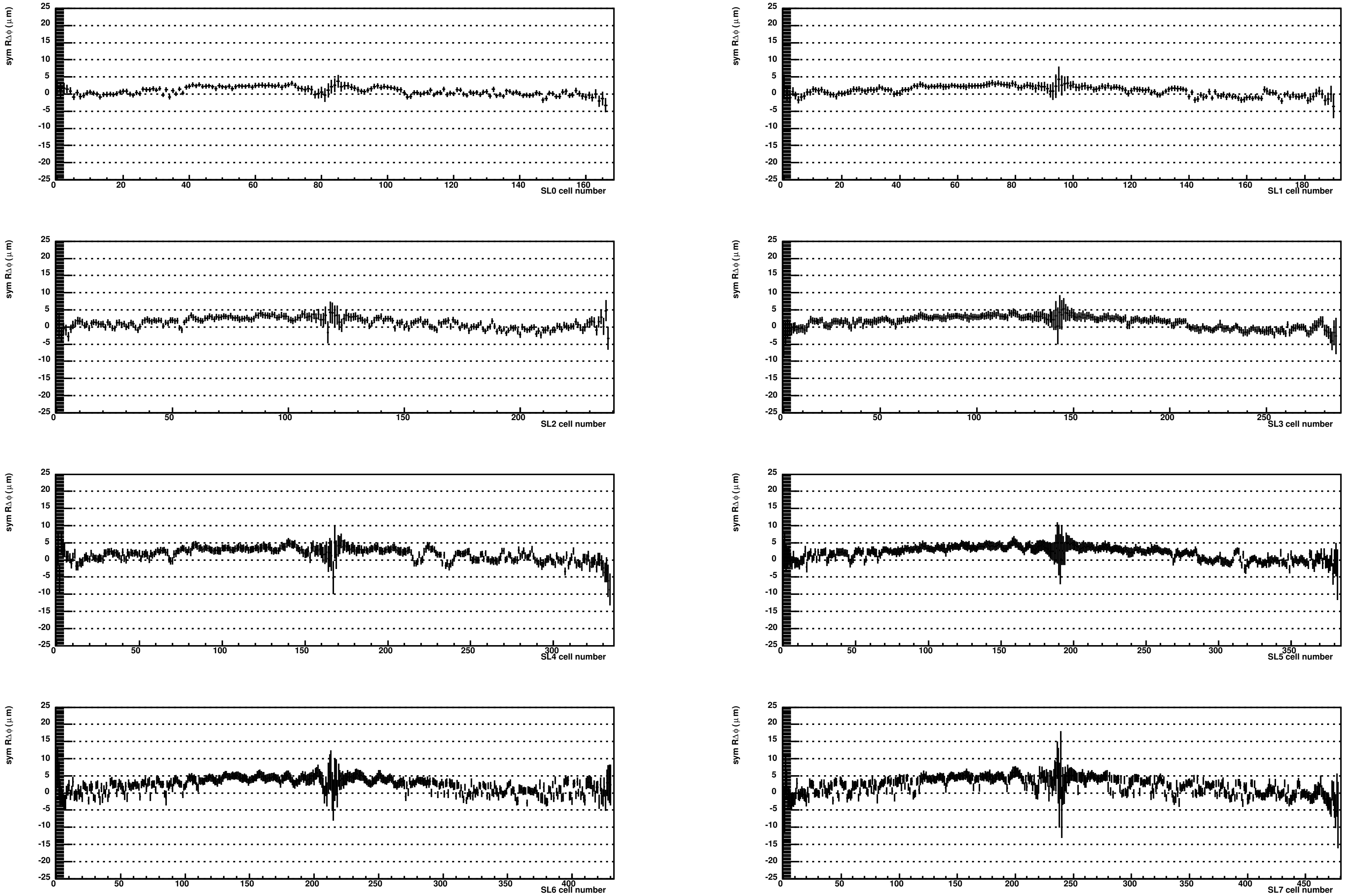

SL0 cells
Entries 88
Mean 1.625
RMS 1.1219
Underflow 0
Overflow 0
Integral 88
SL1 cells
Entries 134
Mean 1.3447
RMS 1.4416
Underflow 0
Overflow 0
Integral 134
SL2 cells
Entries 159
Mean 1.8854
RMS 1.4268
Underflow 0
Overflow 0
Integral 159
SL3 cells
Entries 200
Mean 2.0794
RMS 1.4883
Underflow 0
Overflow 0
Integral 200
SL4 cells
Entries 235
Mean 2.3512
RMS 1.8529
Underflow 0
Overflow 0
Integral 235
SL5 cells
Entries 270
Mean 2.8394
RMS 1.4253
Underflow 0
Overflow 0
Integral 270
SL6 cells
Entries 320
Mean 3.0419
RMS 1.8682
Underflow 0
Overflow 0
Integral 320
SL7 cells
Entries 335
Mean 2.9972
RMS 2.3034
Underflow 0
Overflow 0
Integral 335
RΔφ (μm) (z=0)
-300
0
300

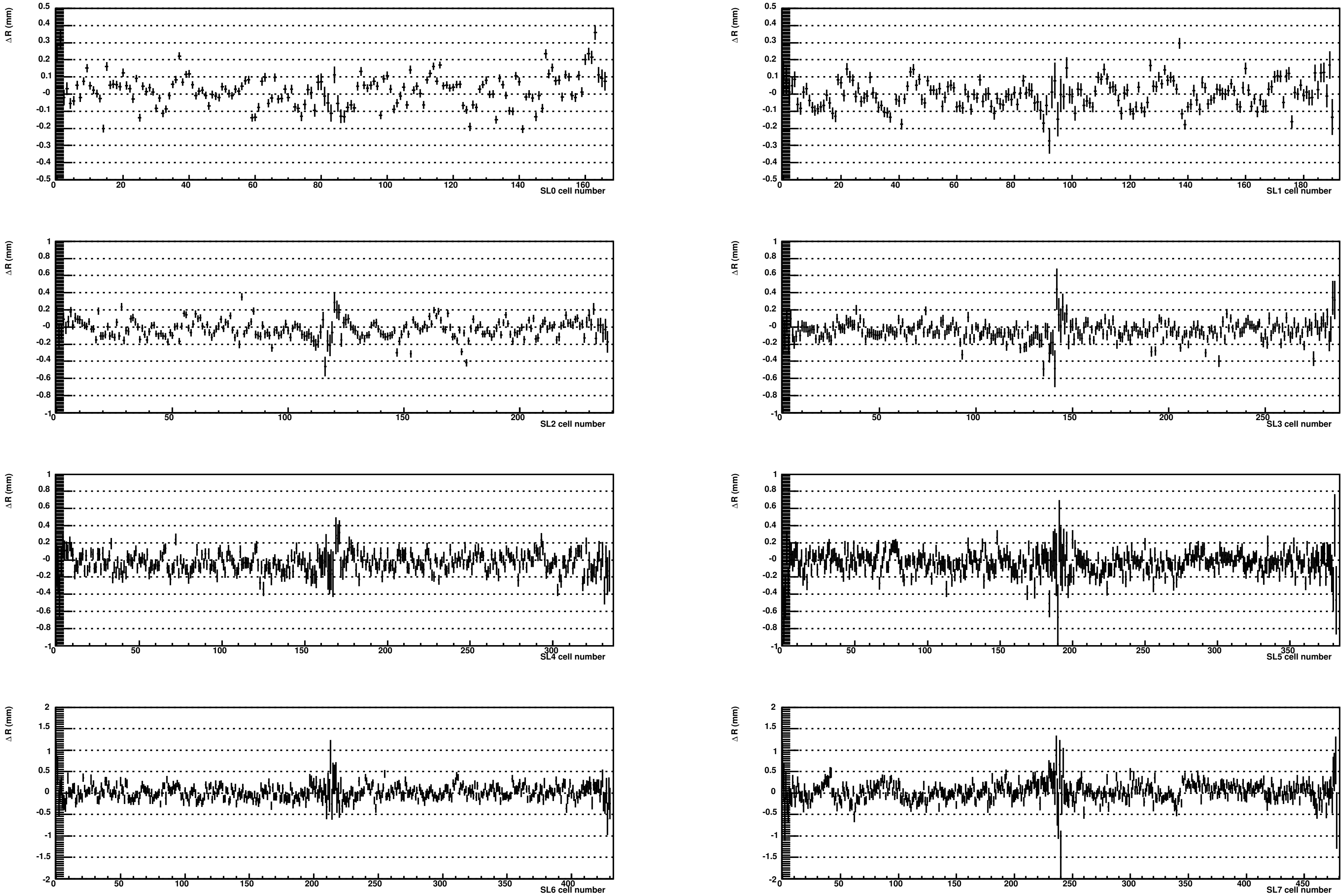

SL0 cells
Entries 132
Mean 0.029113
RMS 0.10386
Underflow 0
Overflow 0
Integral 132
SL1 cells
Entries 123
Mean -0.011158
RMS 0.11529
Underflow 0
Overflow 0
Integral 123
SL2 cells
Entries 150
Mean -0.04012
RMS 0.13263
Underflow 0
Overflow 0
Integral 150
SL3 cells
Entries 170
Mean -0.080491
RMS 0.12849
Underflow 0
Overflow 0
Integral 170
SL4 cells
Entries 176
Mean -0.046122
RMS 0.15925
Underflow 0
Overflow 0
Integral 176
SL5 cells
Entries 156
Mean -0.087656
RMS 0.17874
Underflow 0
Overflow 0
Integral 156
SL6 cells
Entries 212
Mean 0.035335
RMS 0.21411
Underflow 0
Overflow 0
Integral 212
SL7 cells
Entries 250
Mean 0.058355
RMS 0.27275
Underflow 0
Overflow 0
Integral 250
∆R (mm)

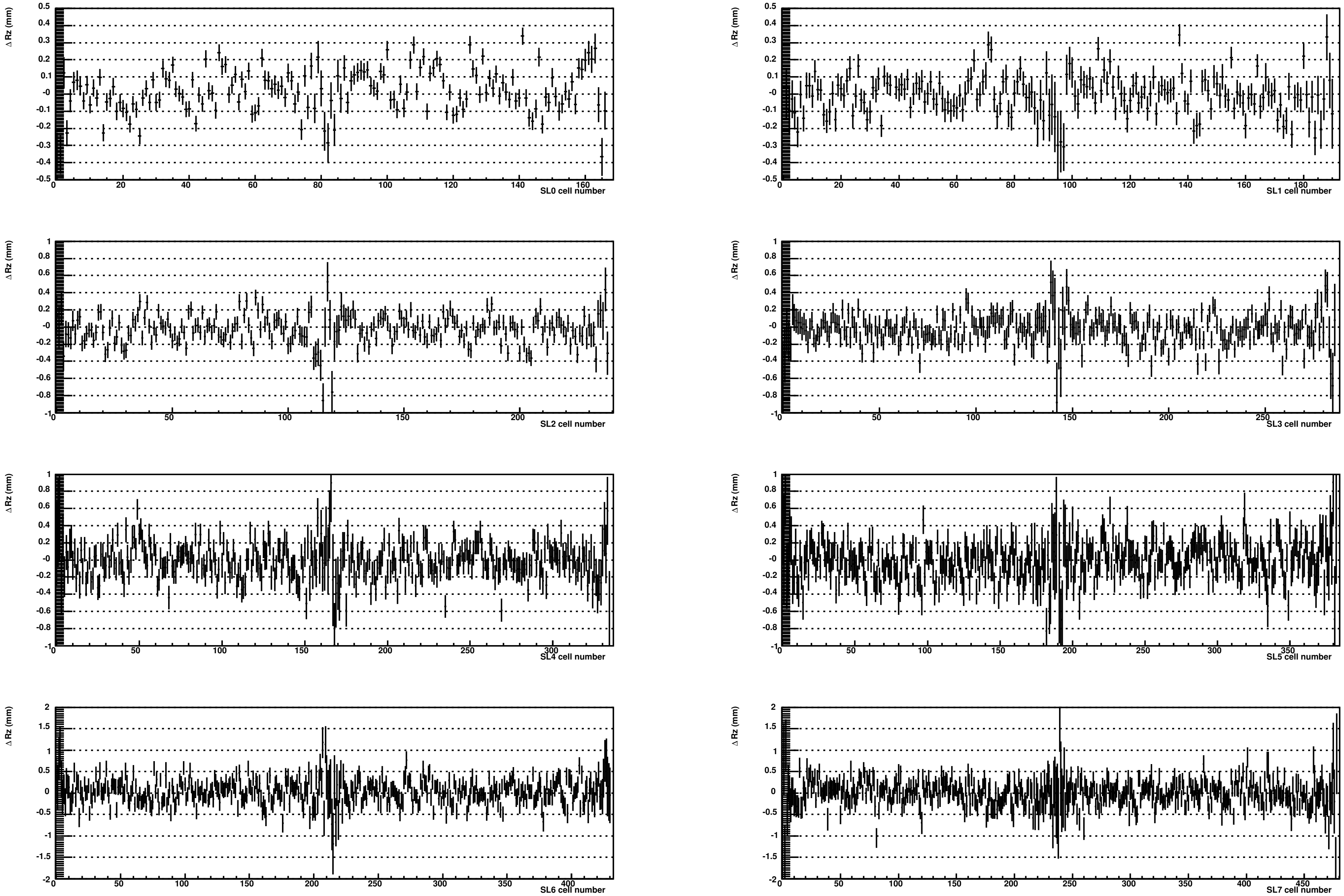

SL0 cells
Entries 23
Mean -1.4605e-05
RMS 4.1593e-05
Underflow 0
Overflow 0
Integral 23
Δ sin Φ(tilt)
SL1 cells
Entries 21
Mean -3.26e-06
RMS 4.5705e-05
Underflow 0
Overflow 0
Integral 21
Δ sin Φ(tilt)
SL2 cells
Entries 35
Mean -8.3633e-06
RMS 5.3116e-05
Underflow 0
Overflow 0
Integral 35
Δ sin Φ(tilt)
SL3 cells
Entries 16
Mean 3.3575e-05
RMS 7.3243e-05
Underflow 0
Overflow 0
Integral 16
Δ sin Φ(tilt)
SL4 cells
Entries 30
Mean 1.3949e-05
RMS 5.9877e-05
Underflow 0
Overflow 0
Integral 30
Δ sin Φ(tilt)
SL5 cells
Entries 18
Mean 5.9518e-06
RMS 9.7119e-05
Underflow 0
Overflow 0
Integral 18
Δ sin Φ(tilt)
SL6 cells
Entries 45
Mean 1.7785e-05
RMS 6.7787e-05
Underflow 0
Overflow 0
Integral 45
Δ sin Φ(tilt)
SL7 cells
Entries 17
Mean 1.4486e-05
RMS 7.1955e-05
Underflow 0
Overflow 0
Integral 17
Δ sin Φ(tilt)
-0.005
0
0.005

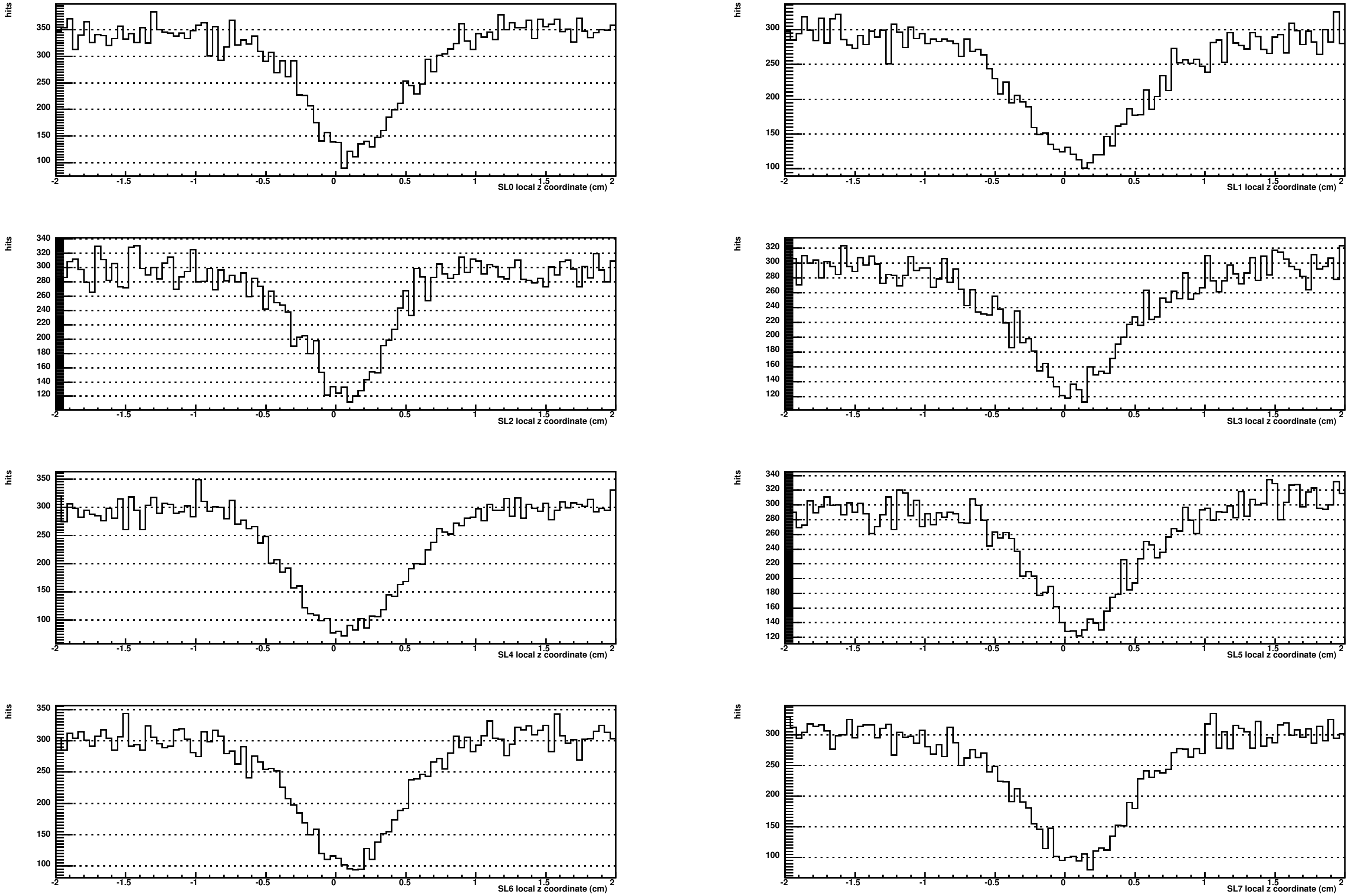


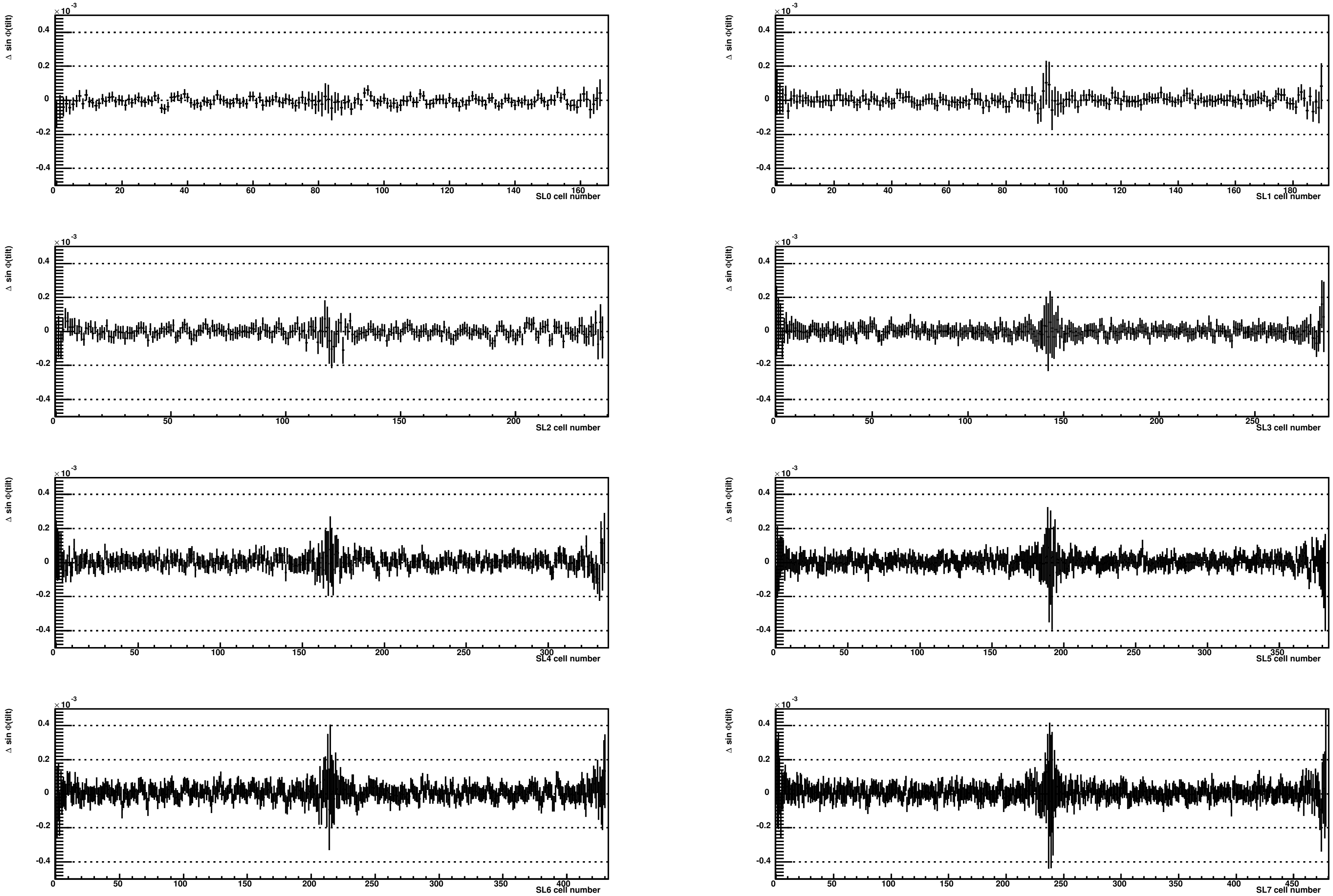
SL0 cells
Entries 45
Mean 0.045343
RMS 2.6633
Underflow 0
Overflow 0
Integral 45
SL1 cells
Entries 36
Mean -0.15814
RMS 2.6047
Underflow 0
Overflow 0
Integral 36
SL2 cells
Entries 78
Mean 1.6194
RMS 2.5108
Underflow 0
Overflow 0
Integral 78
SL3 cells
Entries 37
Mean -1.2683
RMS 2.6348
Underflow 0
Overflow 0
Integral 37
SL4 cells
Entries 102
Mean 0.77801
RMS 3.2701
Underflow 0
Overflow 0
Integral 102
SL5 cells
Entries 57
Mean -1.0353
RMS 4.0879
Underflow 0
Overflow 0
Integral 57
SL6 cells
Entries 106
Mean 1.6597
RMS 3.2778
Underflow 0
Overflow 0
Integral 106
SL7 cells
RΔϕ (μm) (z=155)
-300
0
300

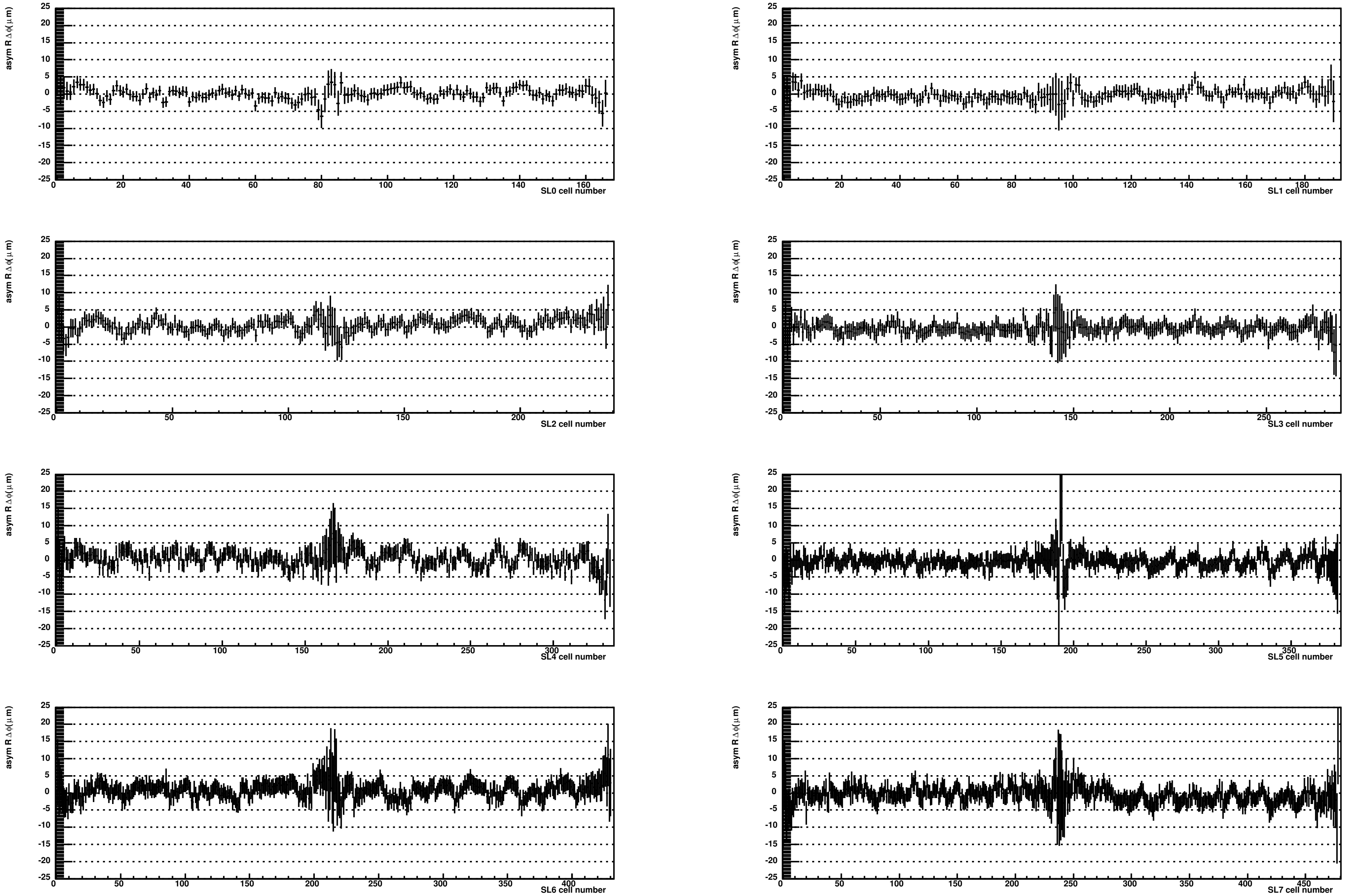

sym RΔφ (μm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number


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

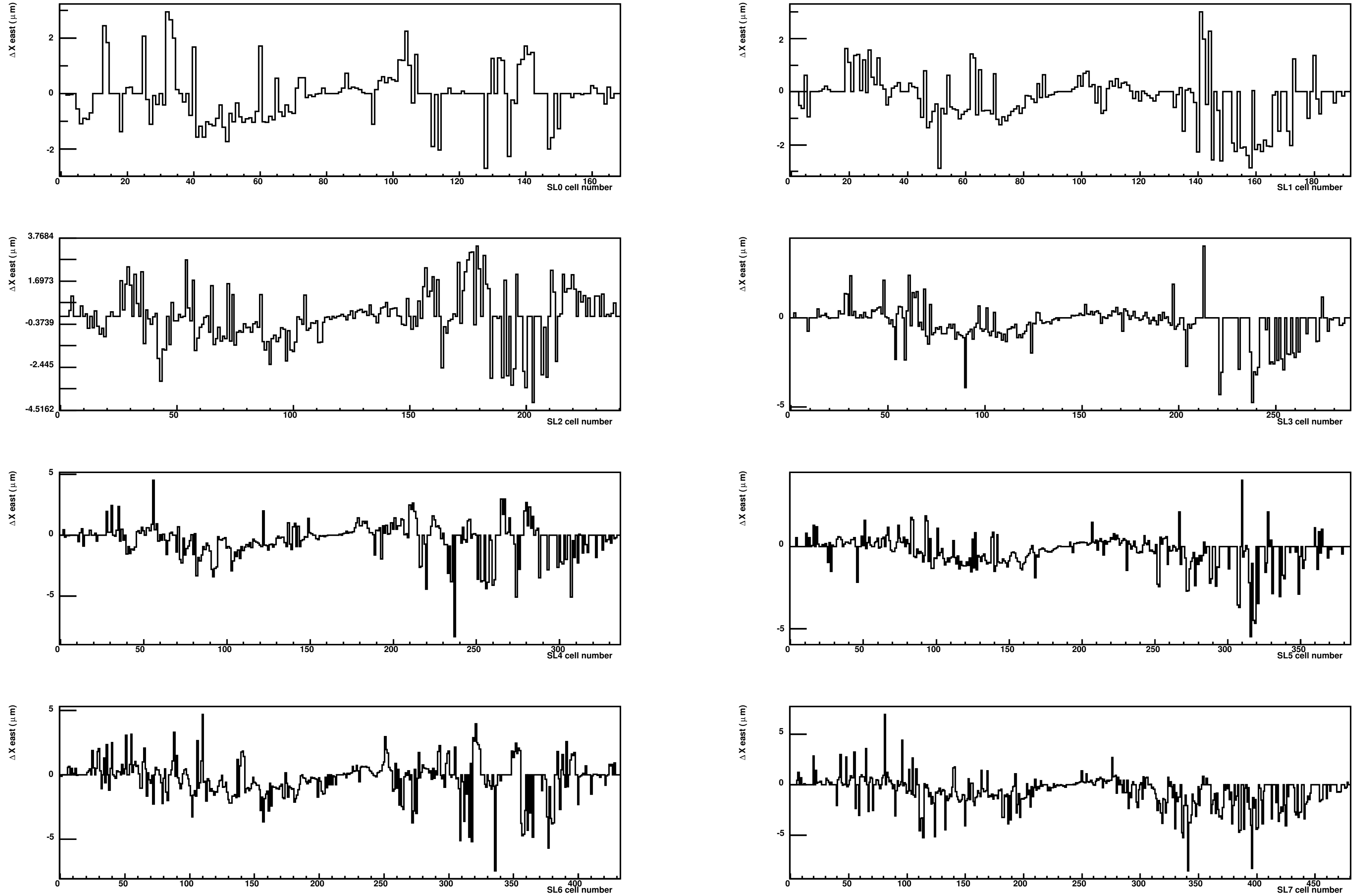

Δ Rz (mm)
SL0 cell number
Δ Rz (mm)
SL1 cell number
Δ Rz (mm)
SL2 cell number
Δ Rz (mm)
SL3 cell number
Δ Rz (mm)
SL4 cell number
Δ Rz (mm)
SL5 cell number
Δ Rz (mm)
SL6 cell number
Δ Rz (mm)
SL7 cell number

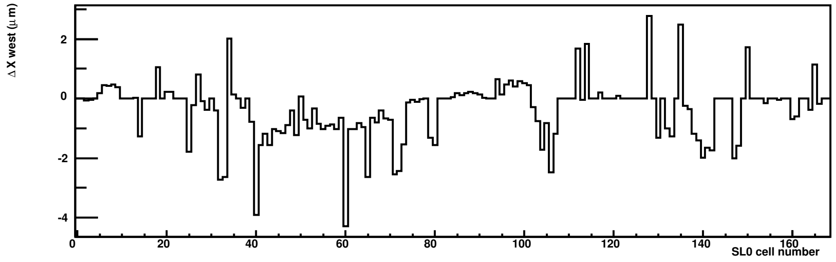

hits
SL0 local z coordinate (cm)
hits
SL1 local z coordinate (cm)
hits
SL2 local z coordinate (cm)
hits
SL3 local z coordinate (cm)
hits
SL4 local z coordinate (cm)
hits
SL5 local z coordinate (cm)
hits
SL6 local z coordinate (cm)
hits
SL7 local z coordinate (cm)

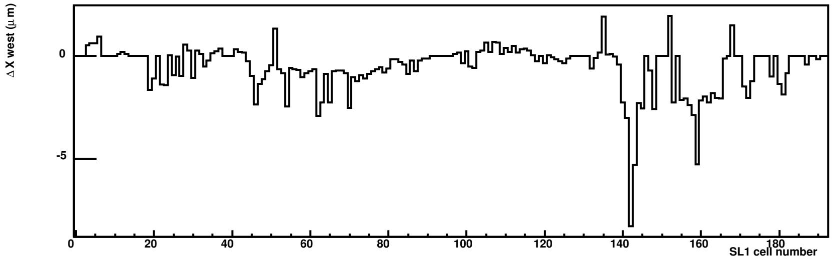

Δ sin Φ(tilt)
×10^-3
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

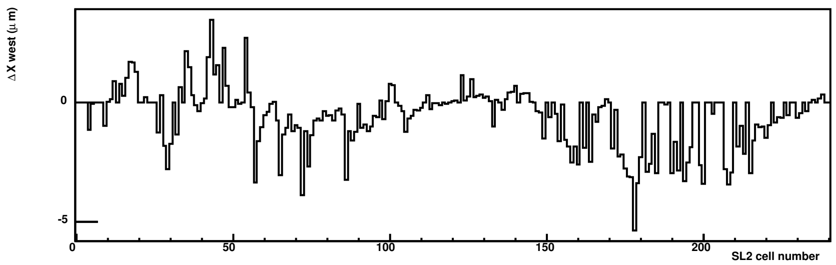


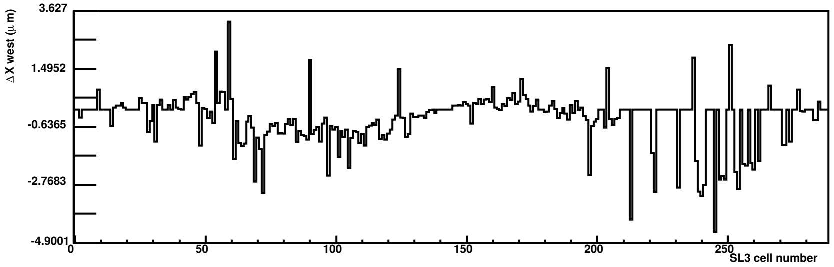
asym R Δφ(μm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

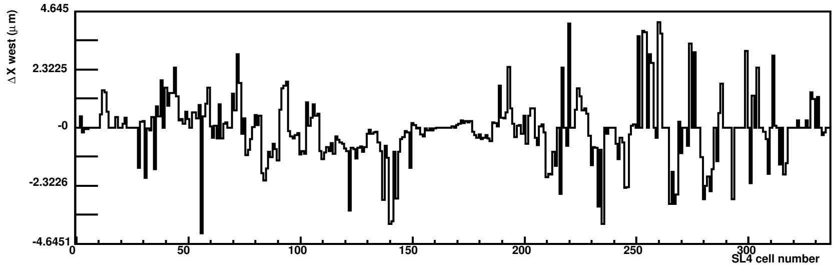

Δ X east (μ m)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

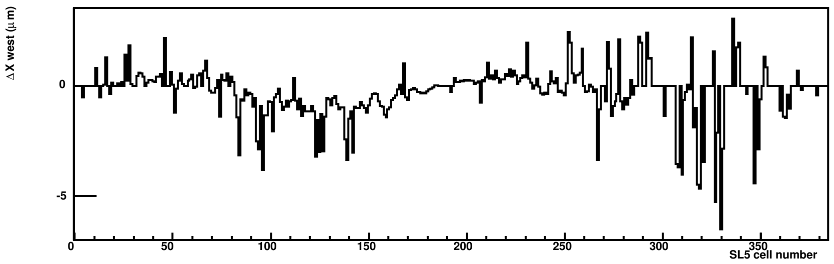

Δ X west (μ m)
SL0 cell number

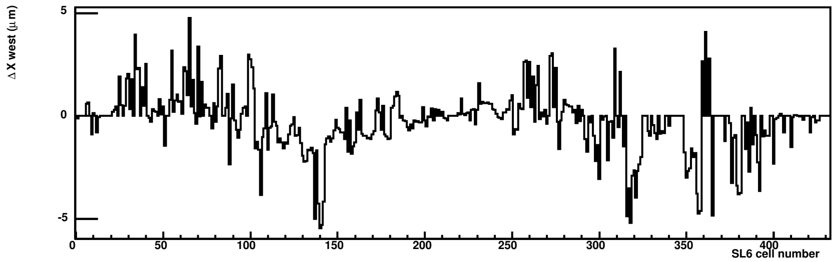

Δ X west (μ m)
SL1 cell number

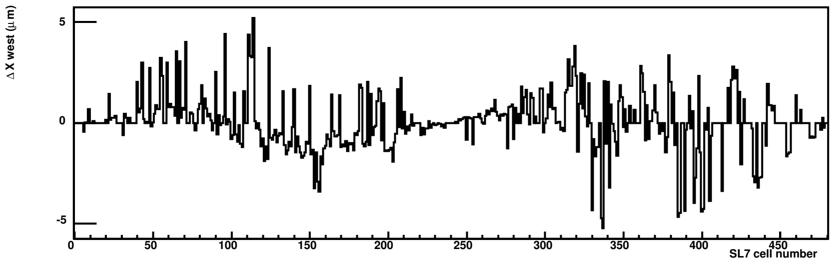

Δ X west (μ m)
SL2 cell number

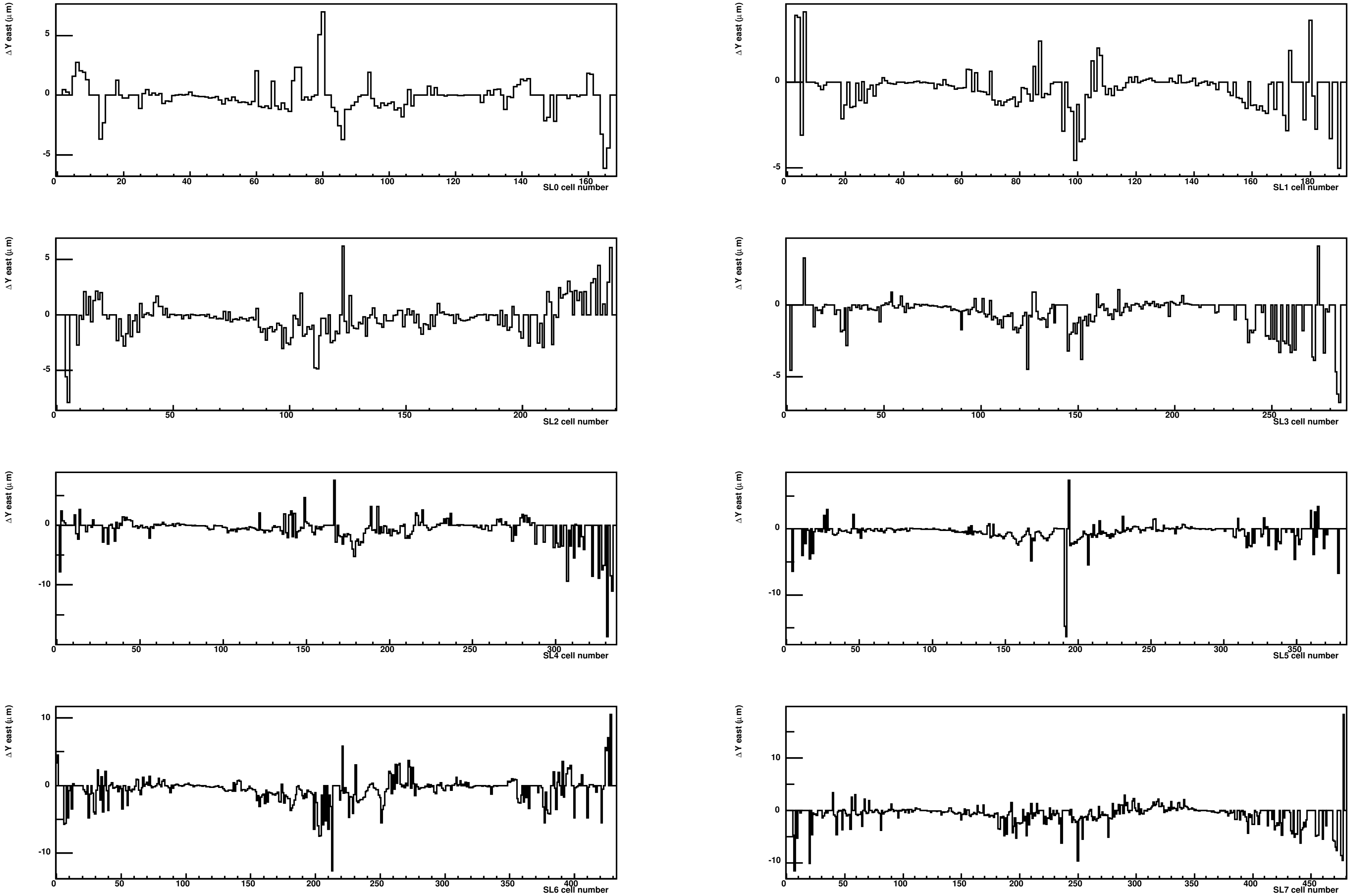

Δ X west (μ m)
SL3 cell number

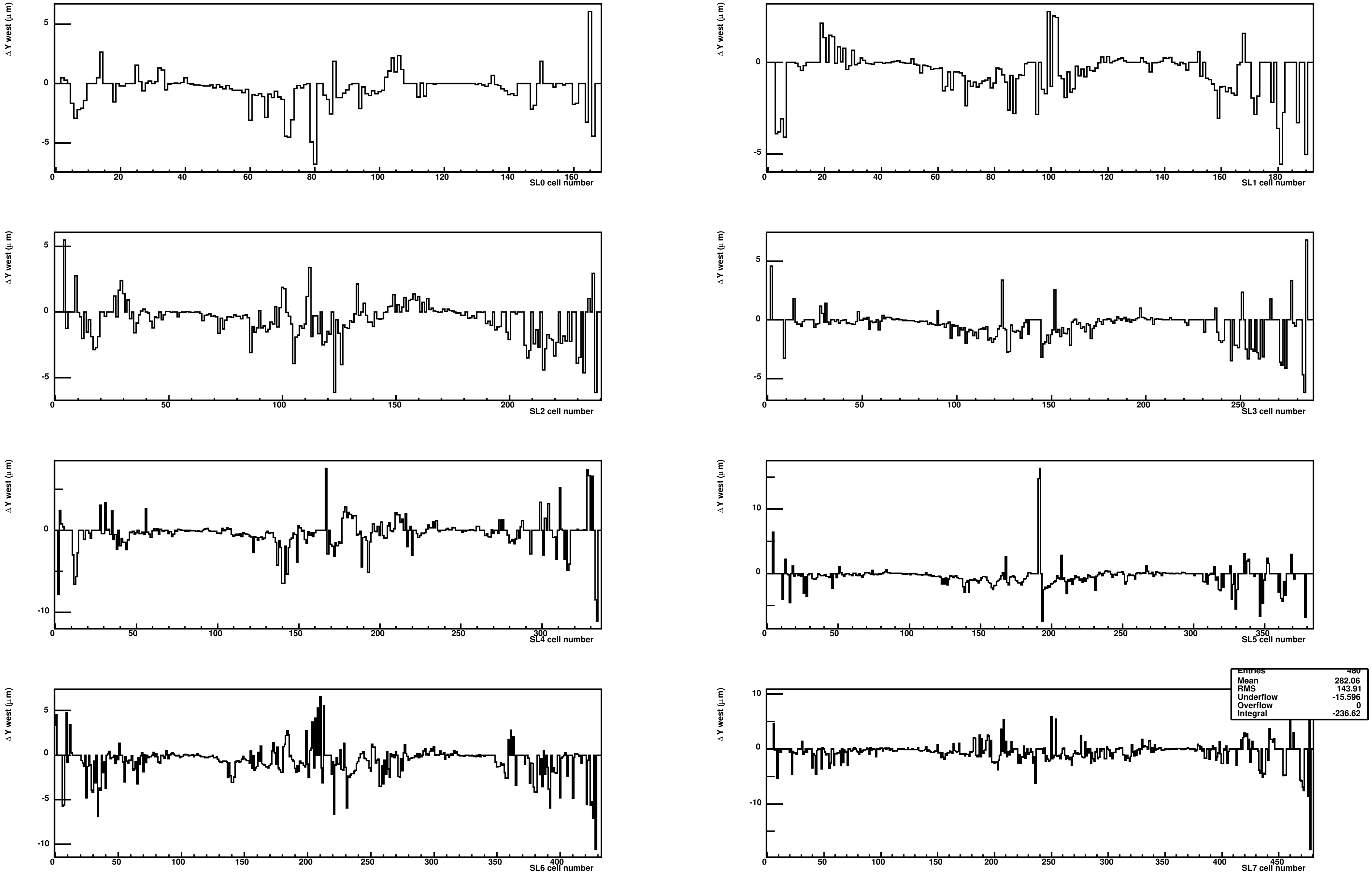

Δ X west (μ m)
SL4 cell number

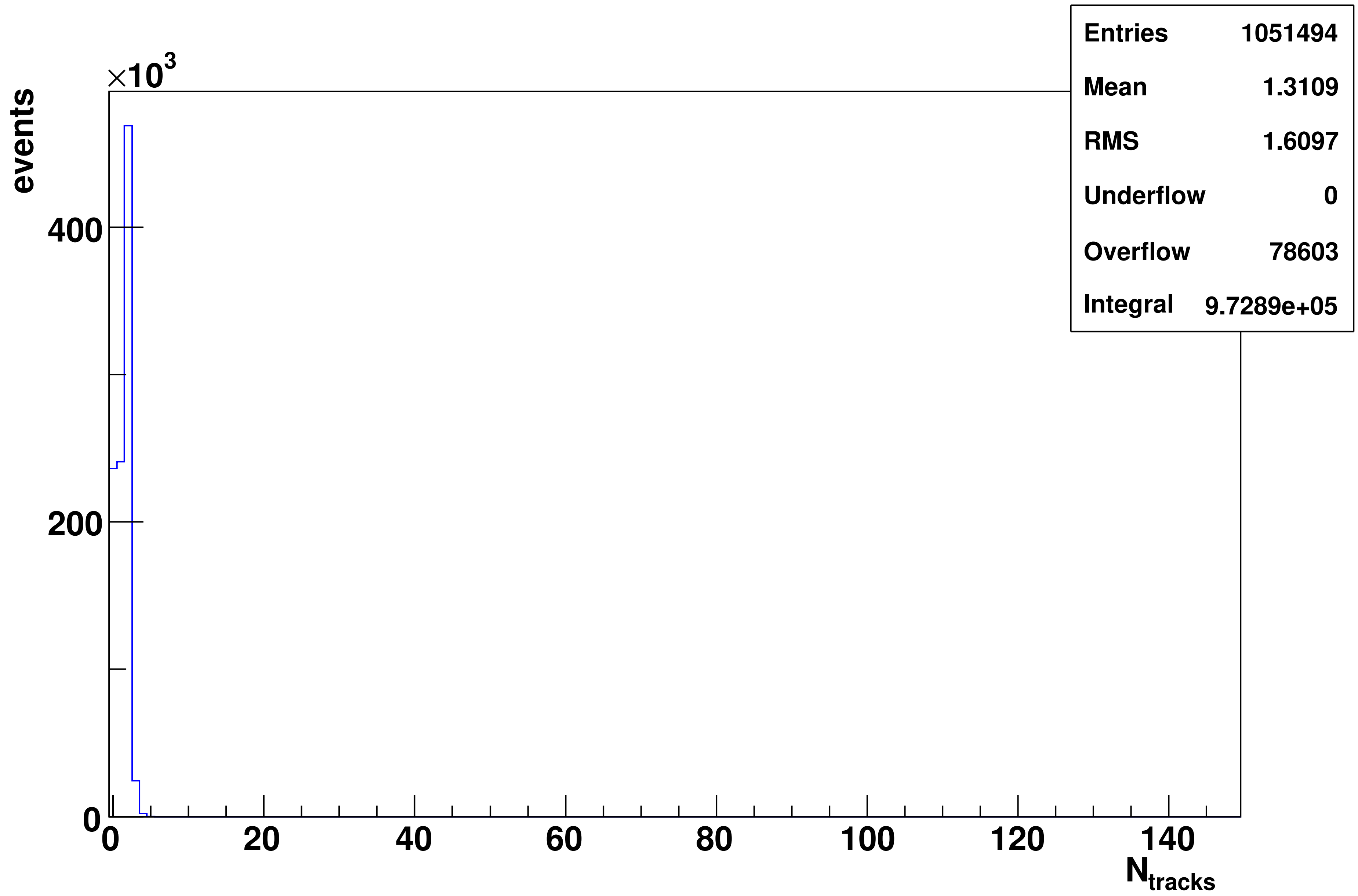

Δ X west (μ m)
SL5 cell number


Δ X west (μ m)
SL6 cell number

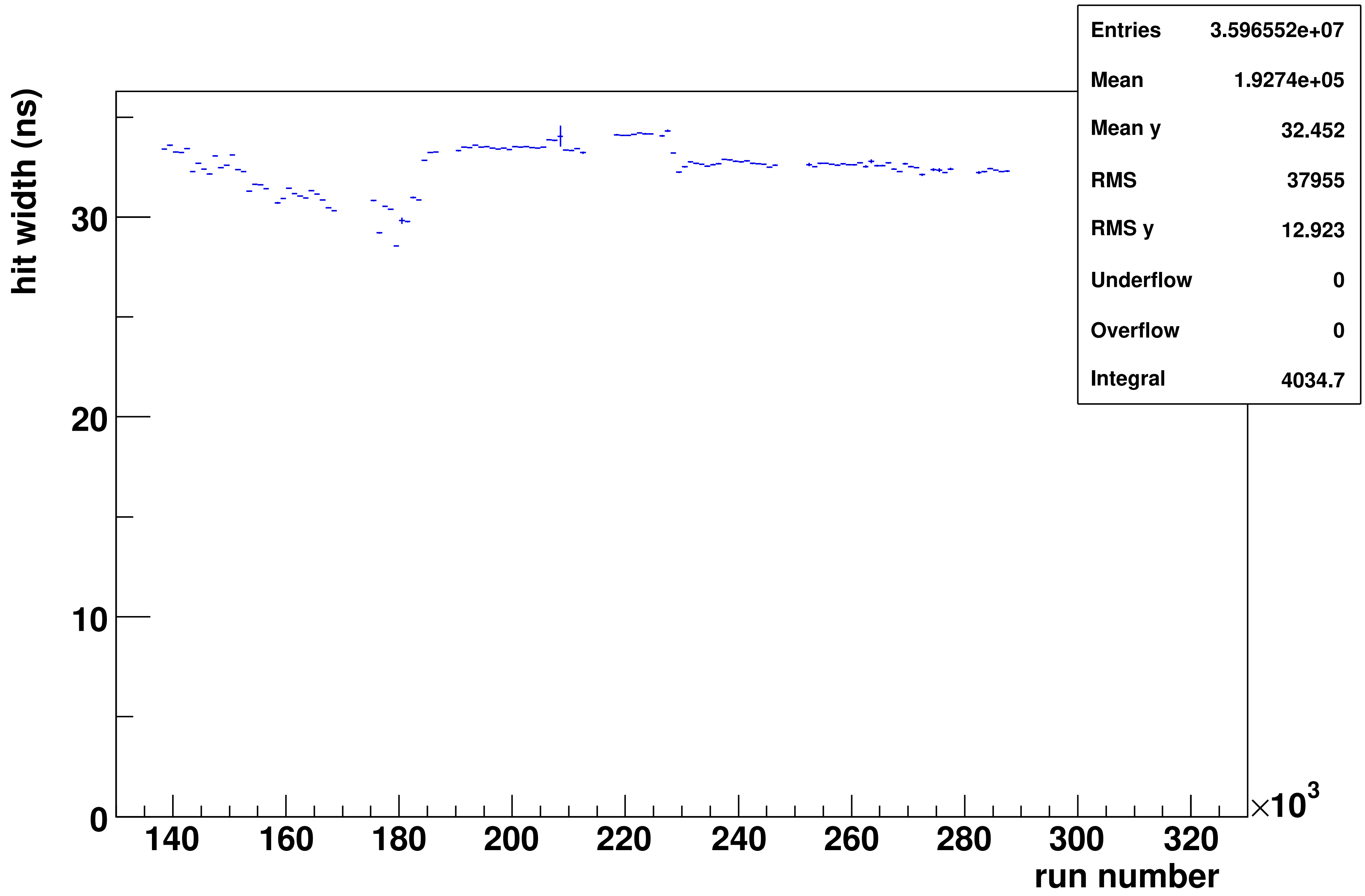

Δ X west (μ m)
SL7 cell number


Δ Y east (μ m)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

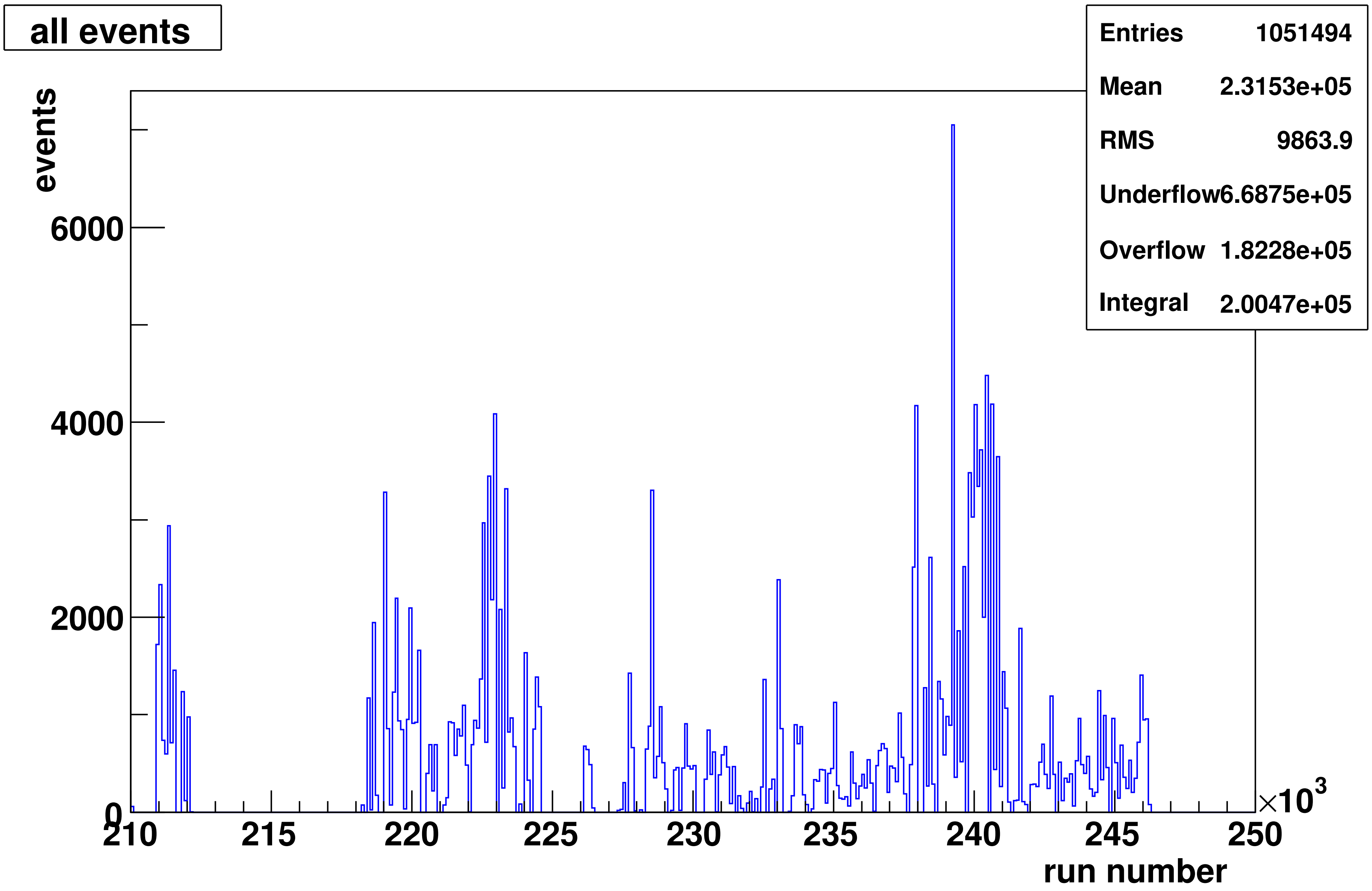

Δ Y west (μ m)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number
Entries 480
Mean 282.06
RMS 143.91
Underflow -15.596
Overflow 0
Integral -236.62

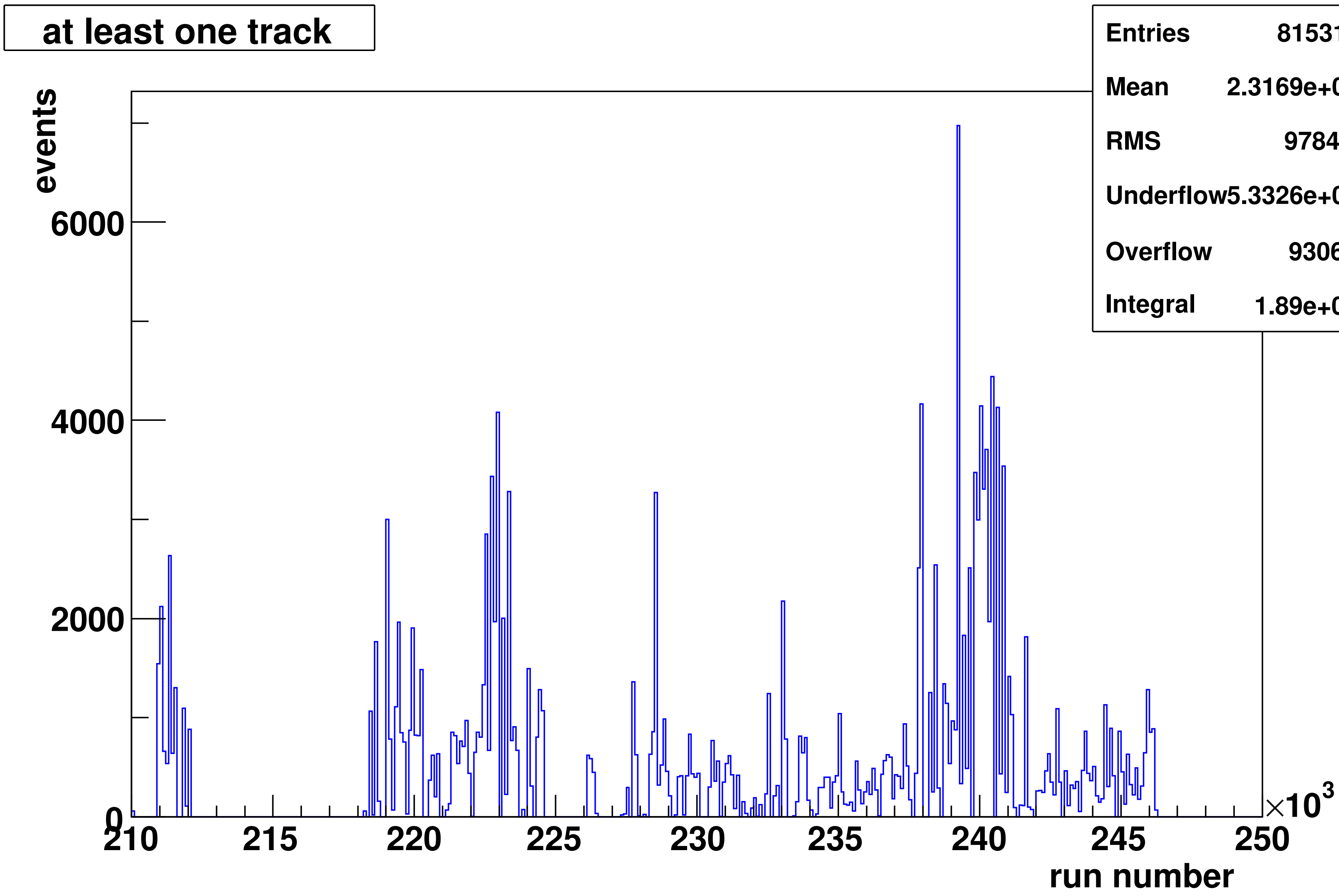


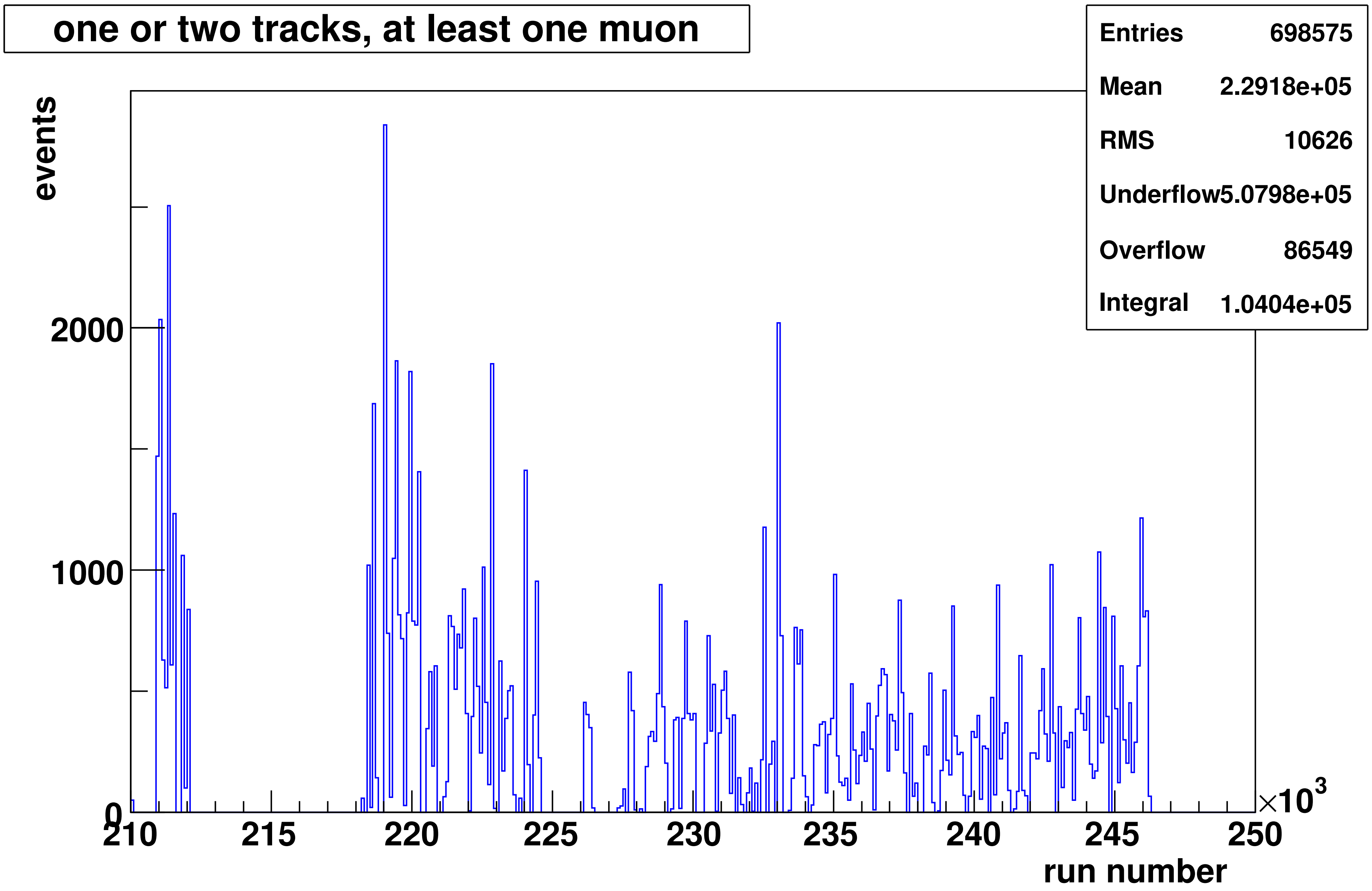
Entries 1051494
Mean 1.3109
RMS 1.6097
Underflow 0
Overflow 78603
Integral 9.7289e+05
×10^3
events
400
200
0
0
20
40
60
80
100
120
140
N_tracks



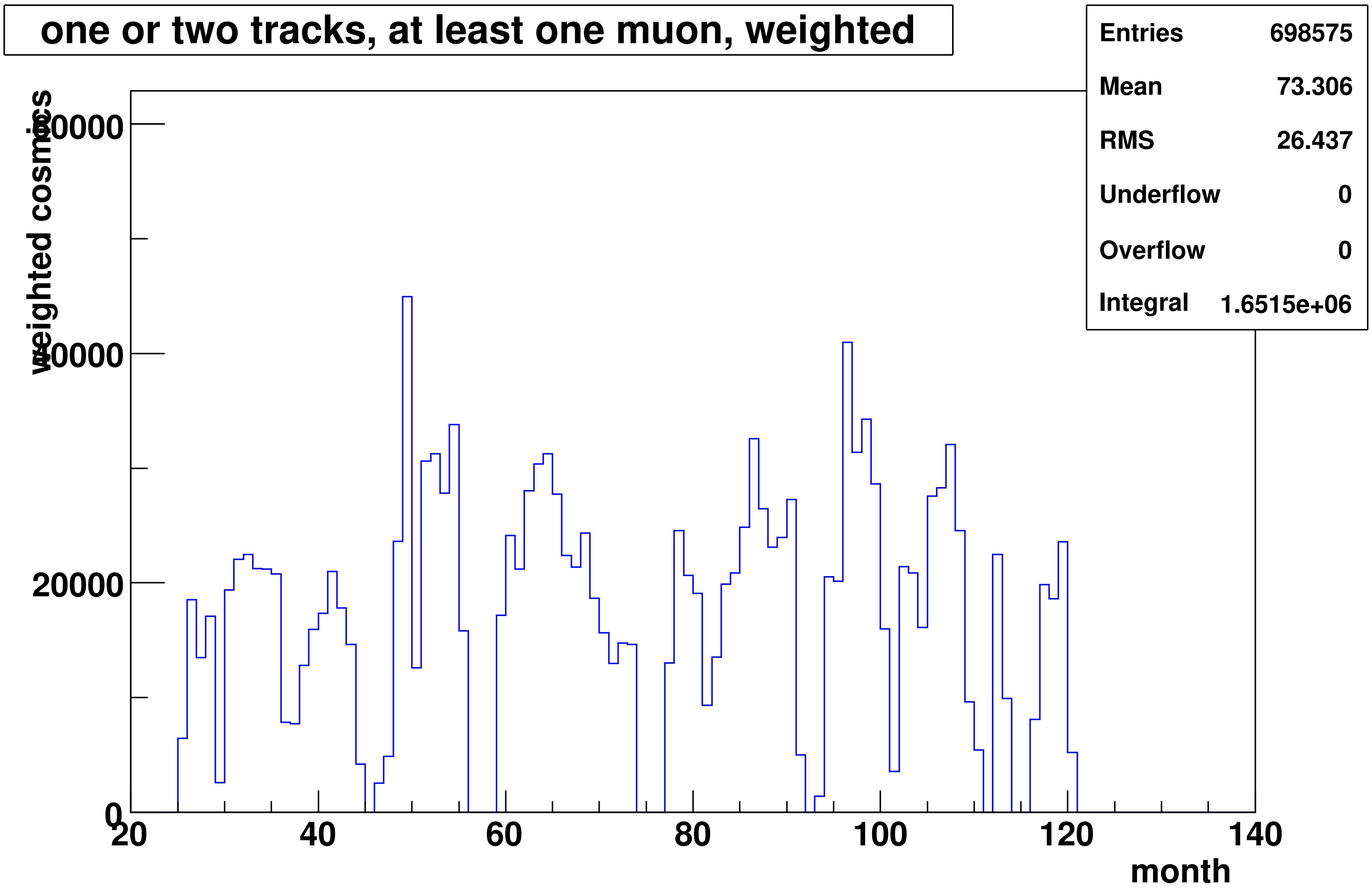
Entries 3.596552e+07
Mean 1.9274e+05
Mean y 32.452
RMS 37955
RMS y 12.923
Underflow 0
Overflow 0
Integral 4034.7
hit width (ns)
0
10
20
30
140
160
180
200
220
240
260
280
300
320
$\times 10^3$
run number

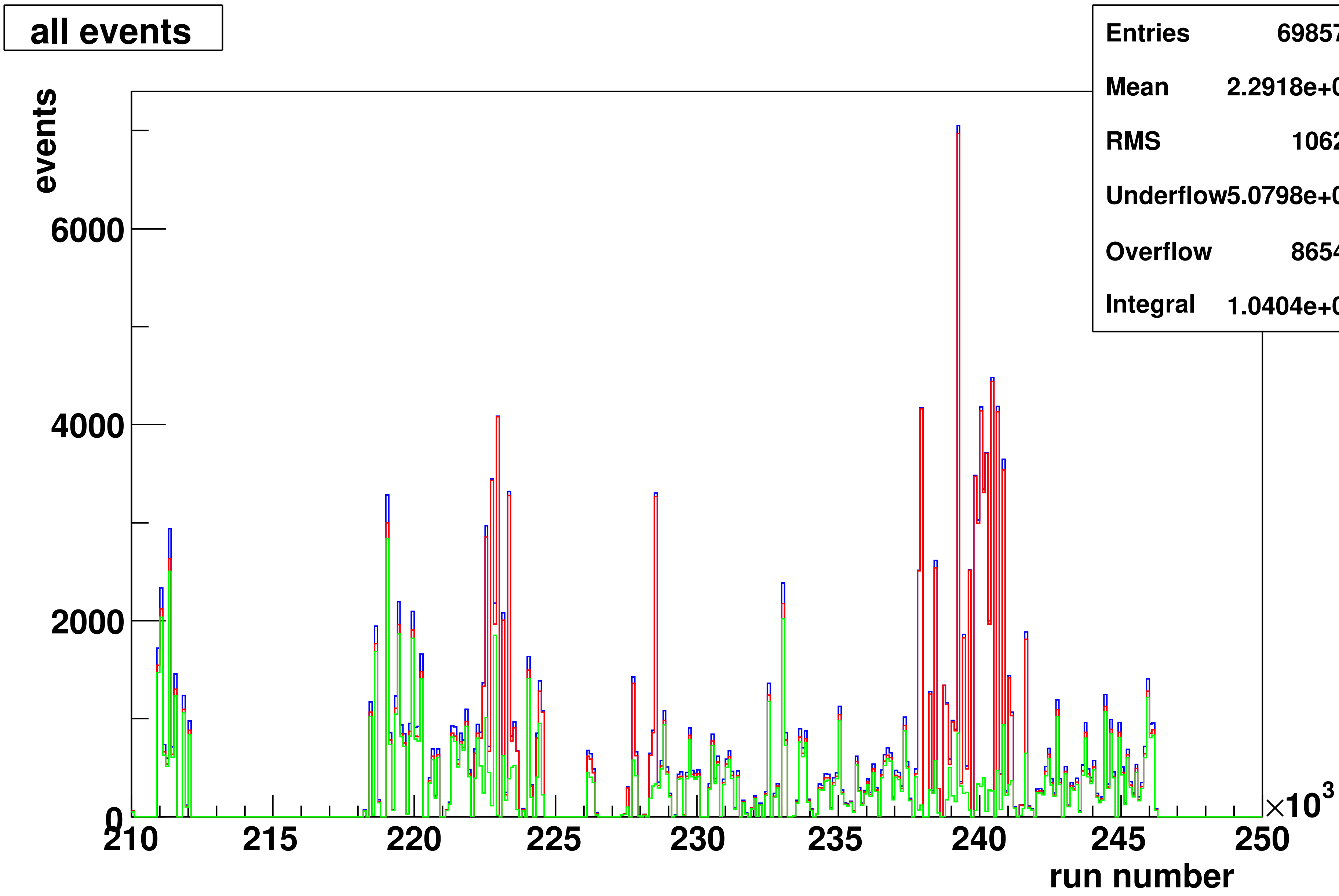

all events
Entries 1051494
Mean 2.3153e+05
RMS 9863.9
Underflow 6.6875e+05
Overflow 1.8228e+05
Integral 2.0047e+05
events
6000
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

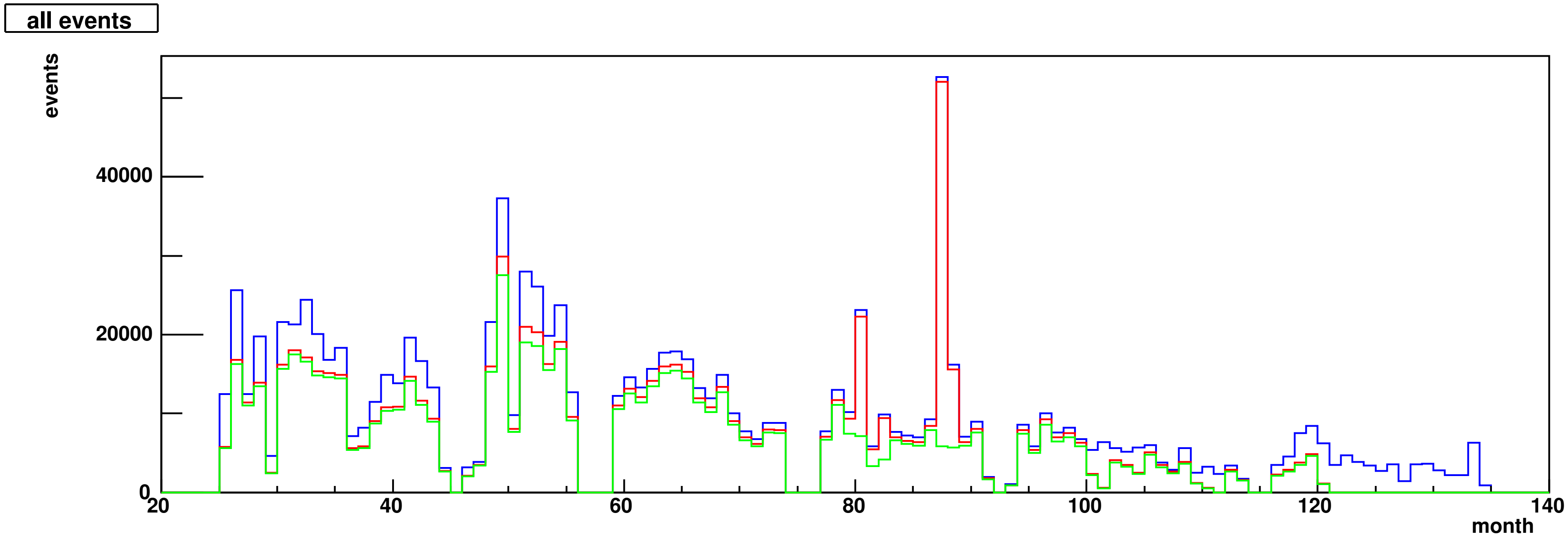

at least one track
events
6000
4000
2000
0
Entries 815319
Mean 2.3169e+05
RMS 9784.9
Underflow5.3326e+05
Overflow 93064
Integral 1.89e+05
210
215
220
225
230
235
240
245
250
×10^3
run number

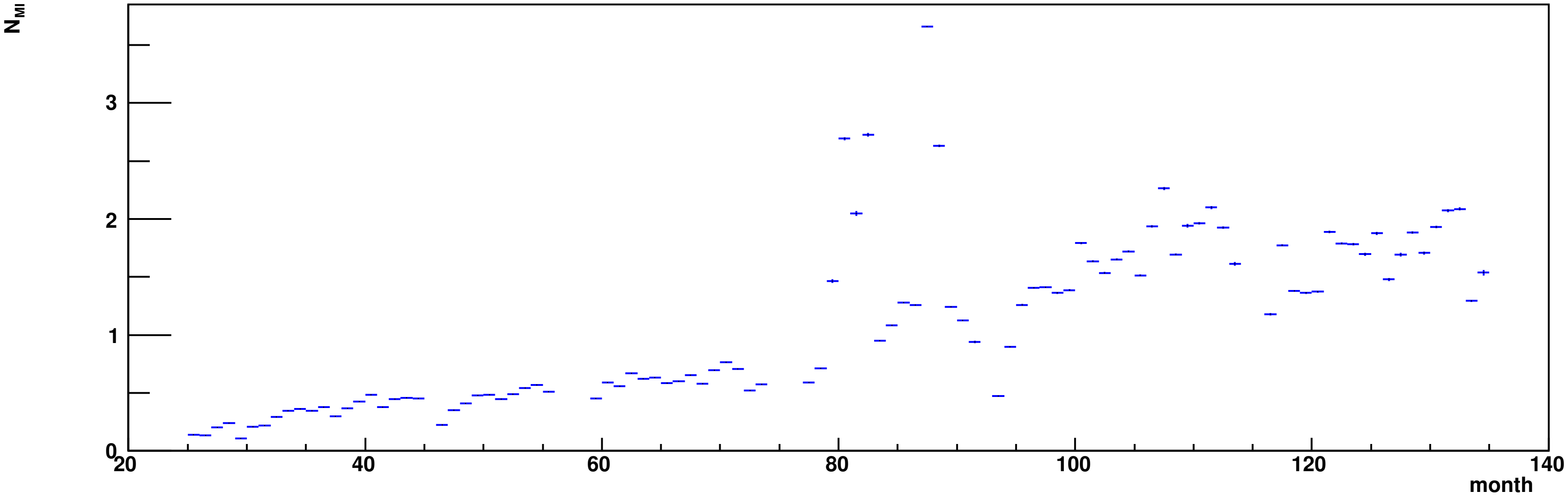


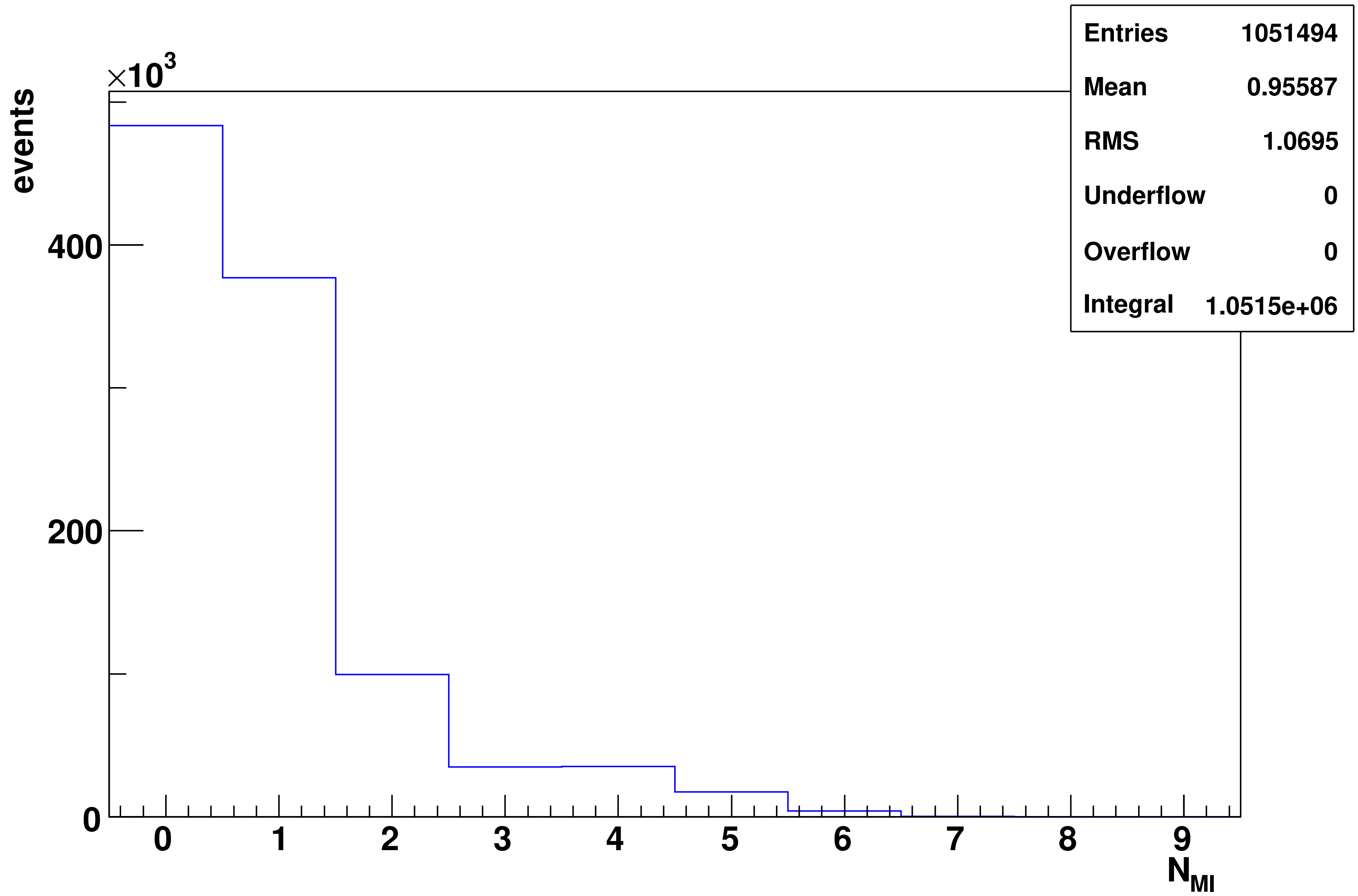
one or two tracks, at least one muon
Entries 698575
Mean 2.2918e+05
RMS 10626
Underflow 5.0798e+05
Overflow 86549
Integral 1.0404e+05
events
0
1000
2000
210
215
220
225
230
235
240
245
250
×10^3
run number

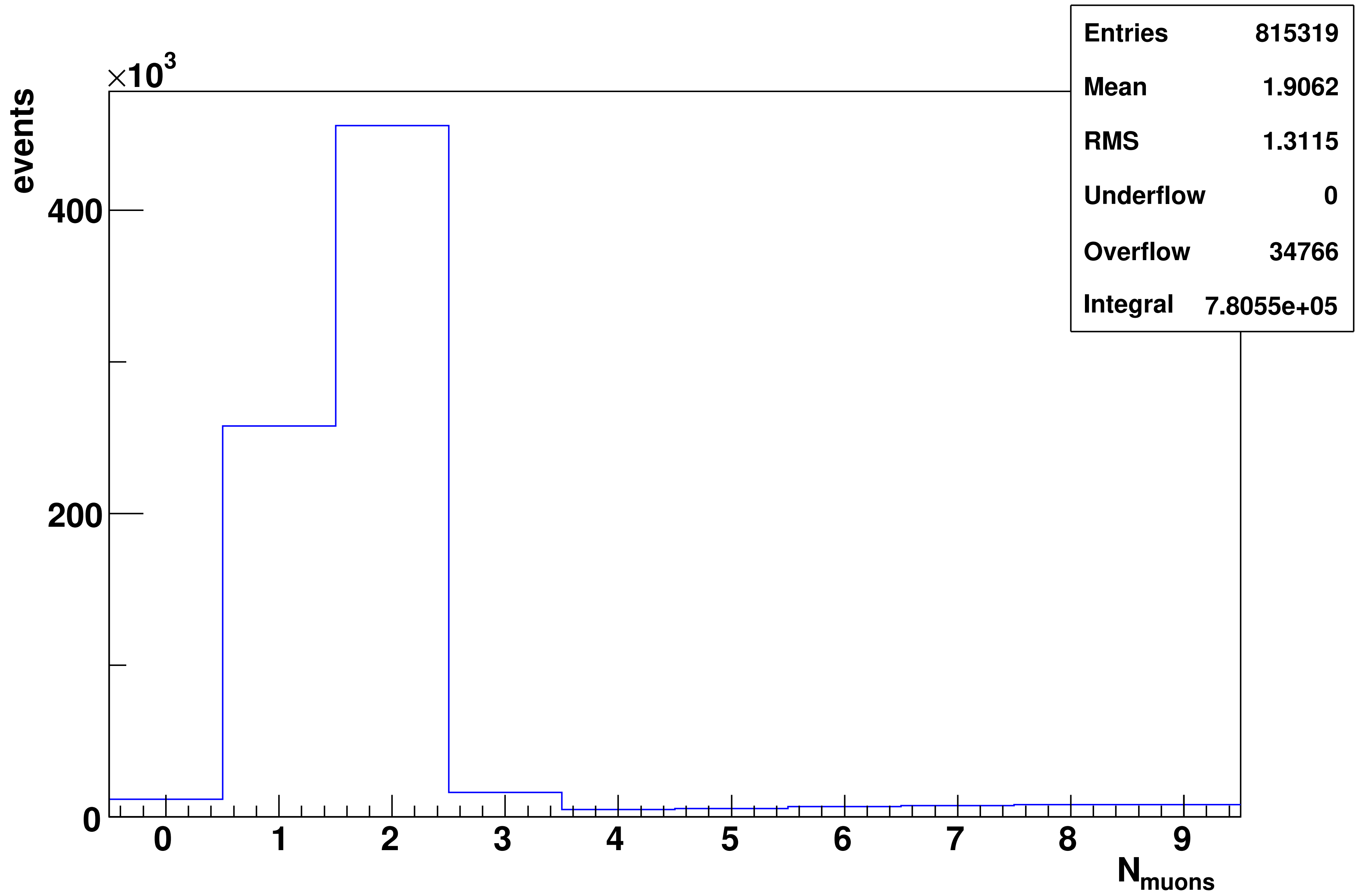

one or two tracks, at least one muon, weighted
Entries 698575
Mean 73.306
RMS 26.437
Underflow 0
Overflow 0
Integral 1.6515e+06
weighted cosmics
0
20000
40000
60000
20
40
60
80
100
120
140
month


all events
Entries 698575
Mean 2.2918e+05
RMS 10626
Underflow 5.0798e+05
Overflow 86549
Integral 1.0404e+05
events
0
2000
4000
6000
210
215
220
225
230
235
240
245
250
×10^3
run number

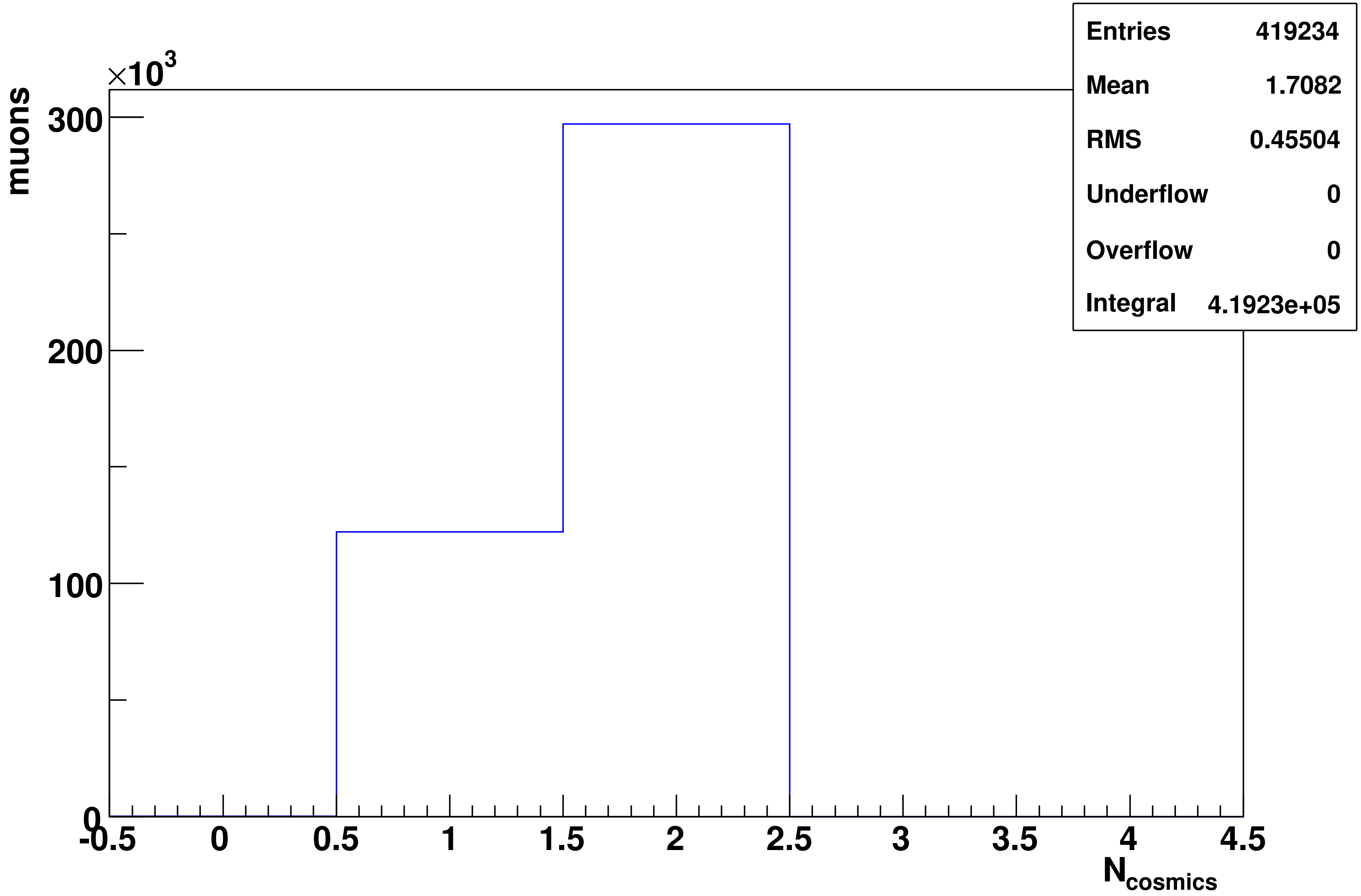

all events
events
0
20000
40000
20
40
60
80
100
120
140
month


N_{MI}
0
1
2
3
20
40
60
80
100
120
140
month

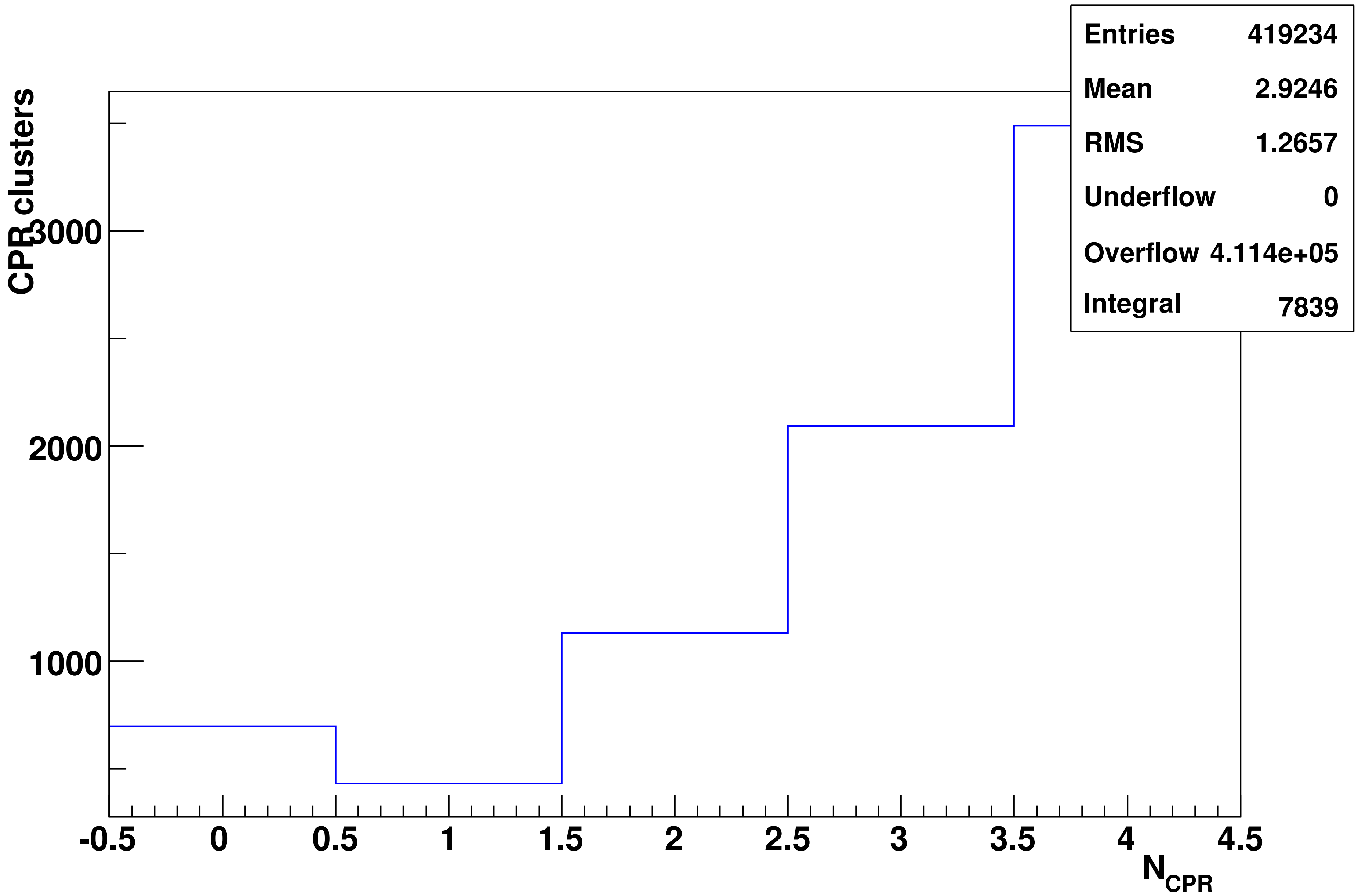

Entries 1051494
Mean 0.95587
RMS 1.0695
Underflow 0
Overflow 0
Integral 1.0515e+06
events
×10^3
400
200
0
0
1
2
3
4
5
6
7
8
9
N_MI

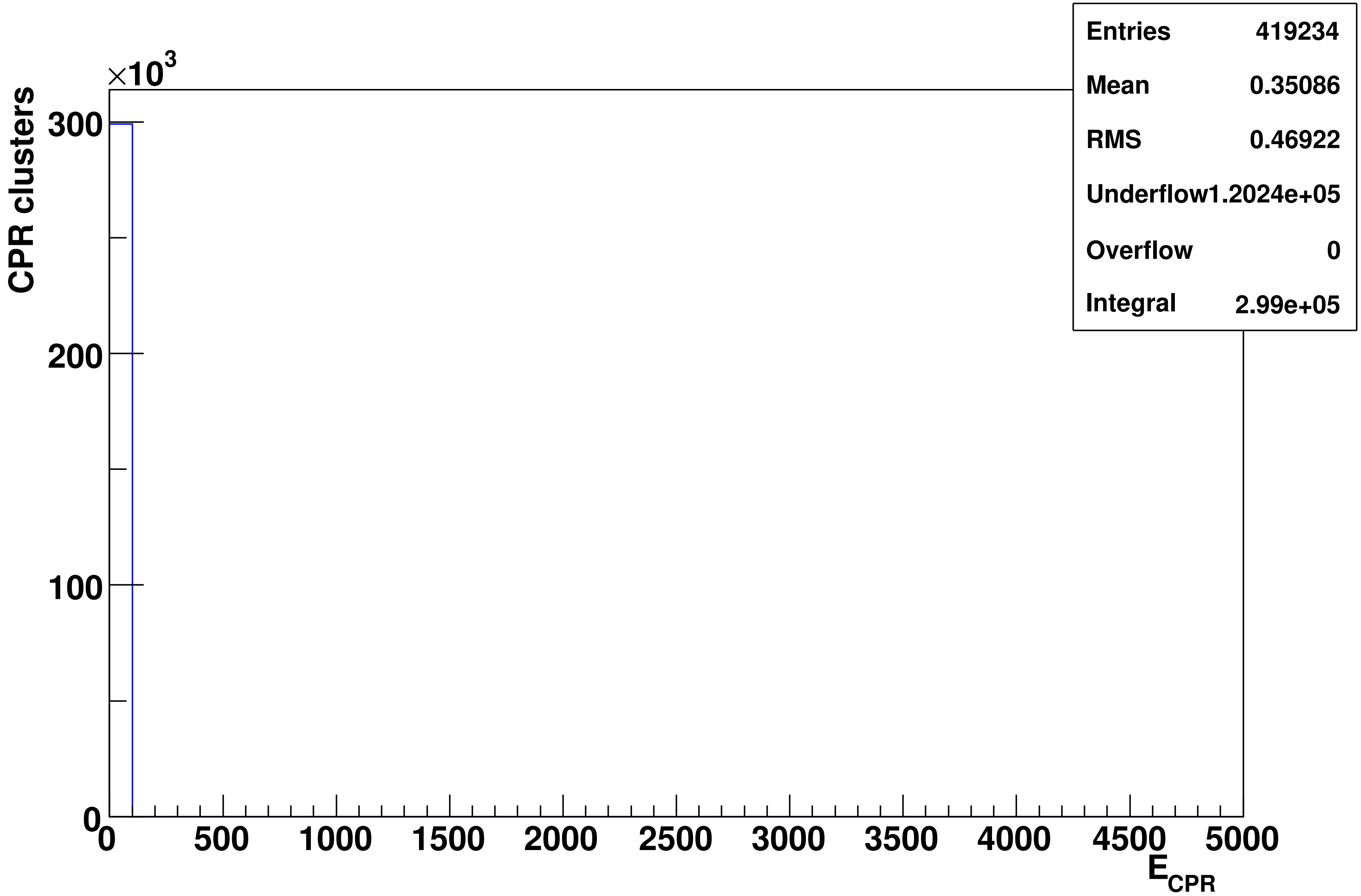


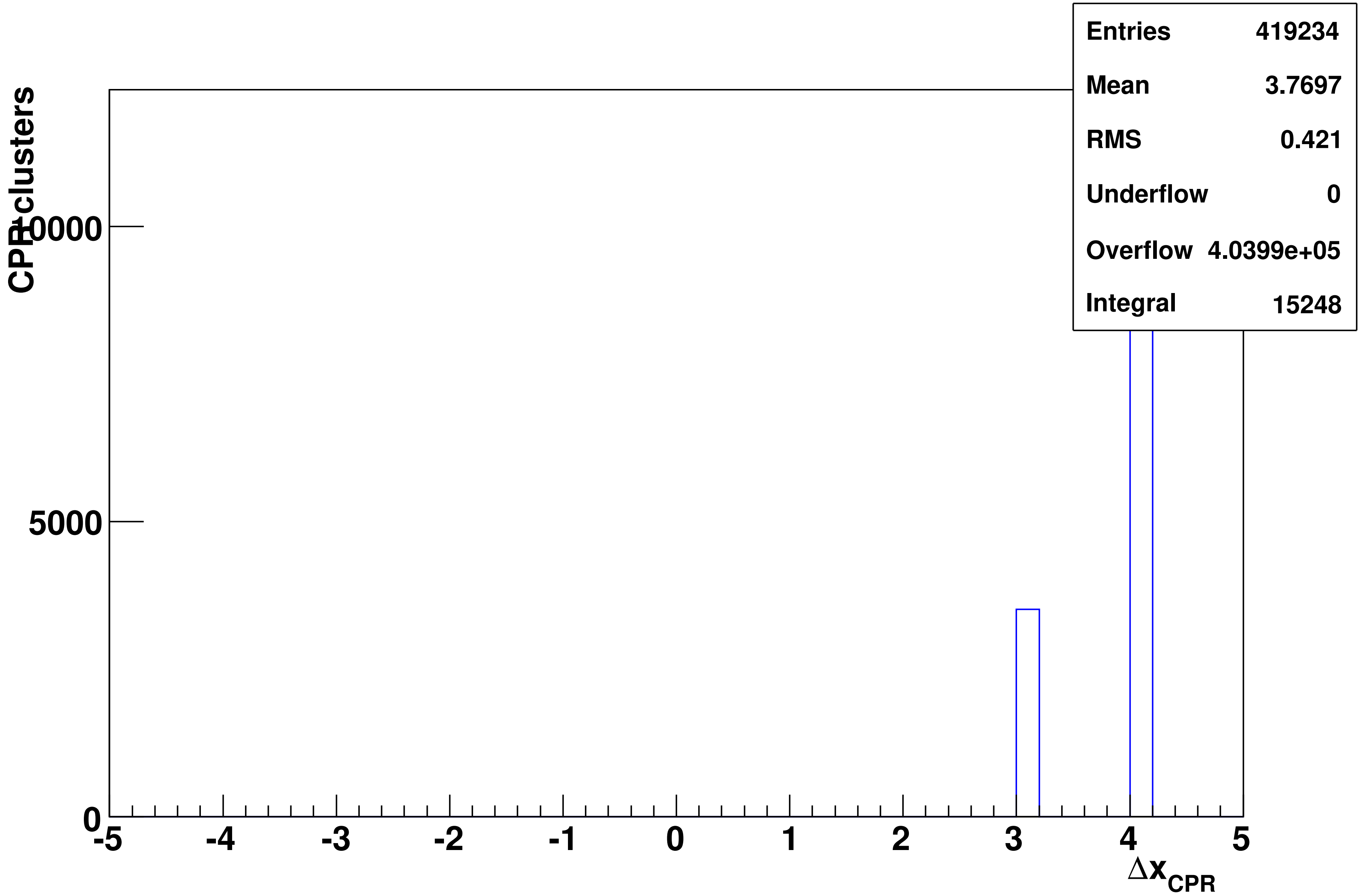
Entries 815319
Mean 1.9062
RMS 1.3115
Underflow 0
Overflow 34766
Integral 7.8055e+05
$\times 10^3$
events
400
200
0
0 1 2 3 4 5 6 7 8 9
N_{muons}

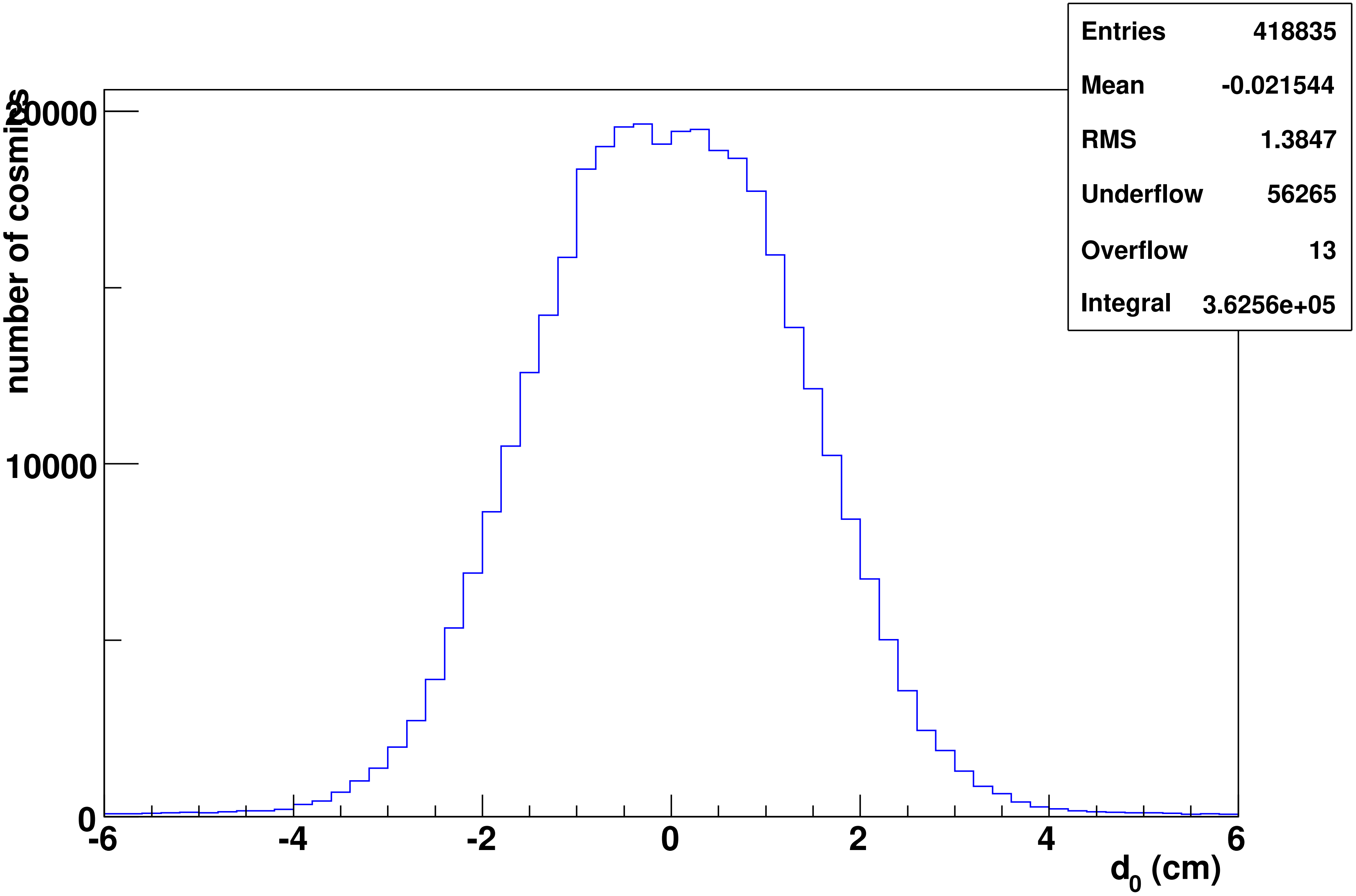


Entries 419234
Mean 1.7082
RMS 0.45504
Underflow 0
Overflow 0
Integral 4.1923e+05
×10^3
muons
300
200
100
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_cosmics

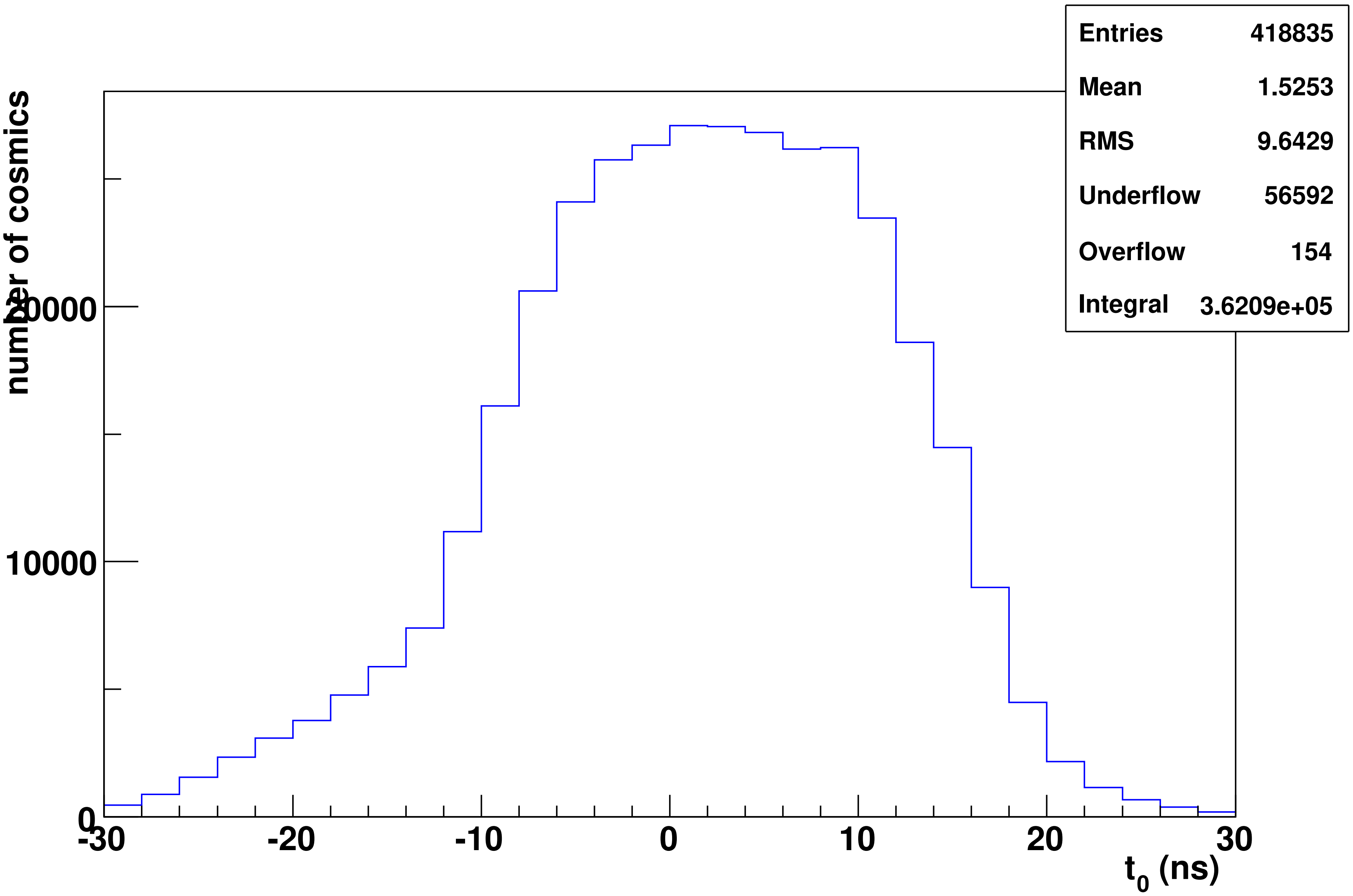

Entries 419234
Mean 2.9246
RMS 1.2657
Underflow 0
Overflow 4.114e+05
Integral 7839
CPR clusters
3000
2000
1000
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_{CPR}

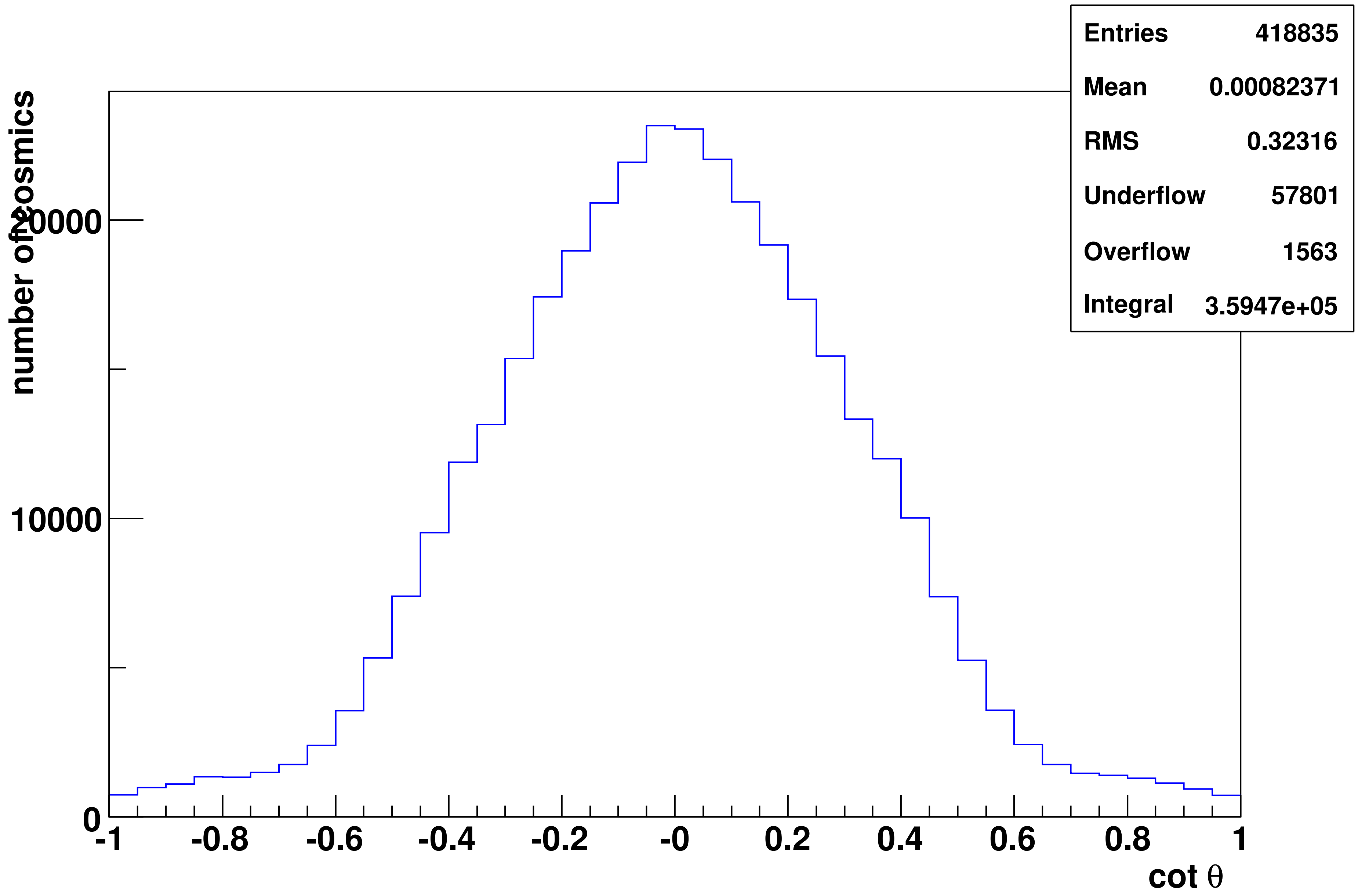

Entries 419234
Mean 0.35086
RMS 0.46922
Underflow1.2024e+05
Overflow 0
Integral 2.99e+05
×10^3
CPR clusters
0
100
200
300
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
E_CPR

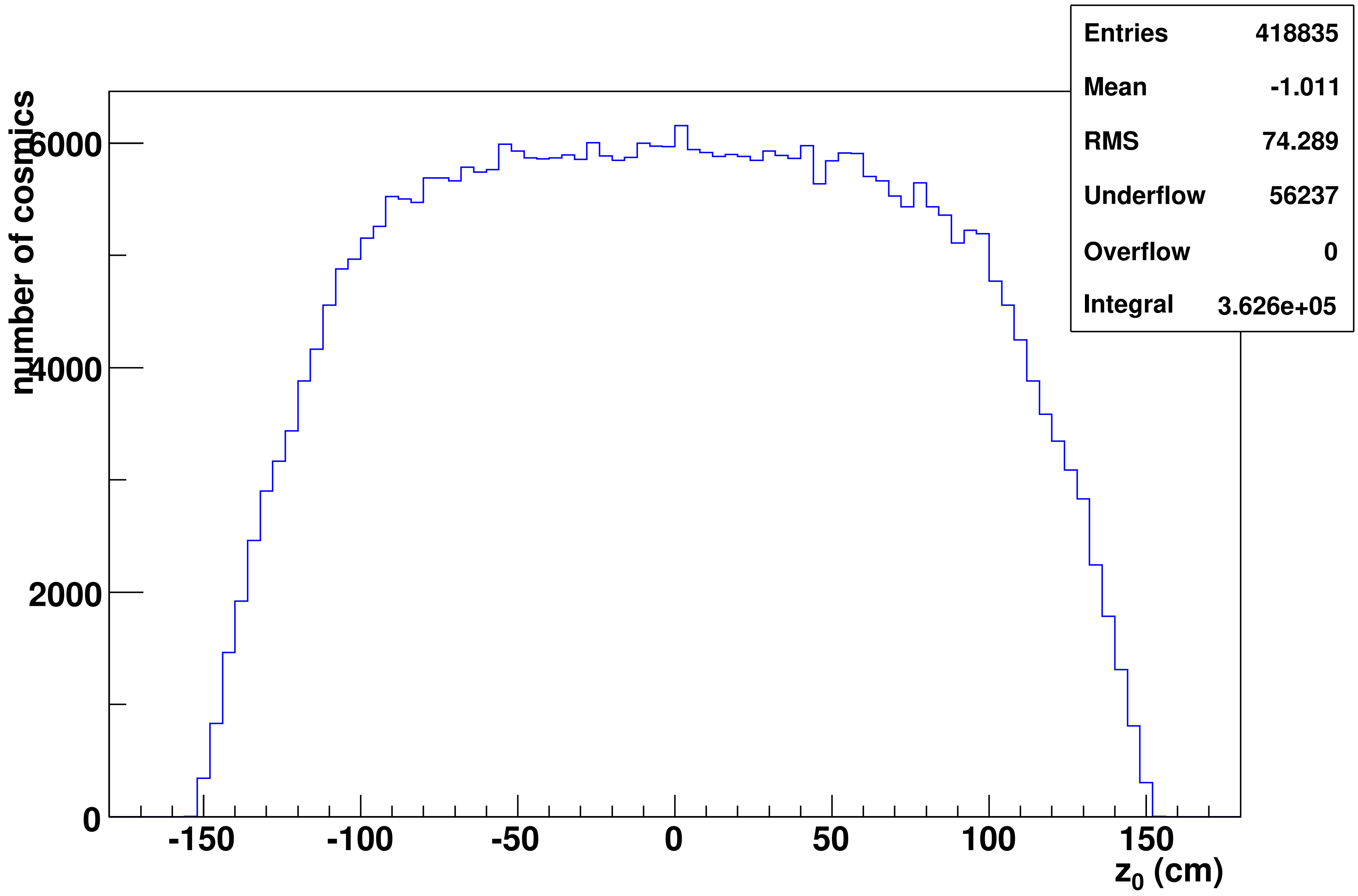

Entries 419234
Mean 3.7697
RMS 0.421
Underflow 0
Overflow 4.0399e+05
Integral 15248
CPR clusters
10000
5000
0
-5
-4
-3
-2
-1
0
1
2
3
4
5
Δx_{CPR}



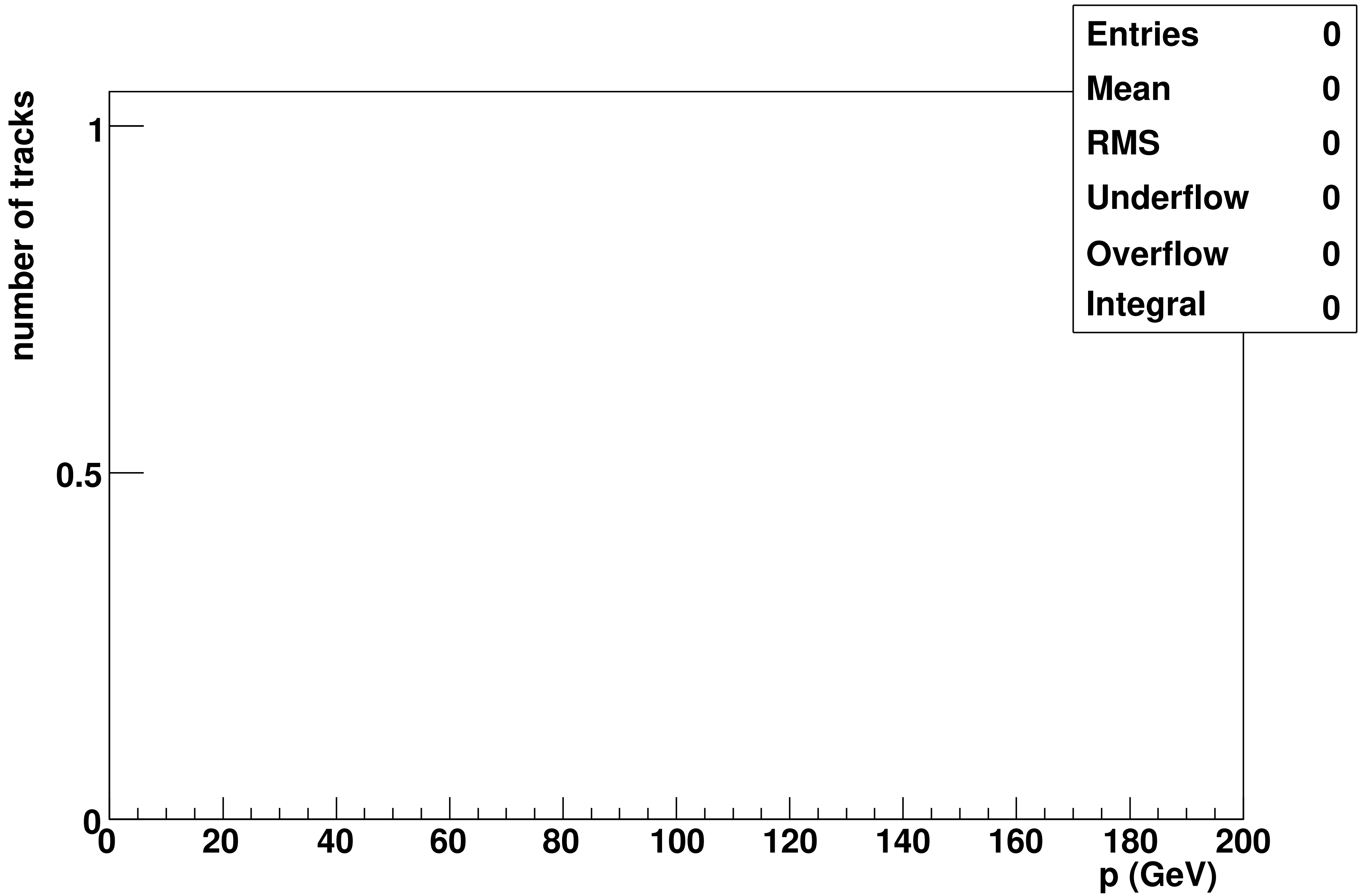
Entries 418835
Mean -0.021544
RMS 1.3847
Underflow 56265
Overflow 13
Integral 3.6256e+05
number of cosmics
20000
10000
0
-6
-4
-2
0
2
4
6
d_0 (cm)

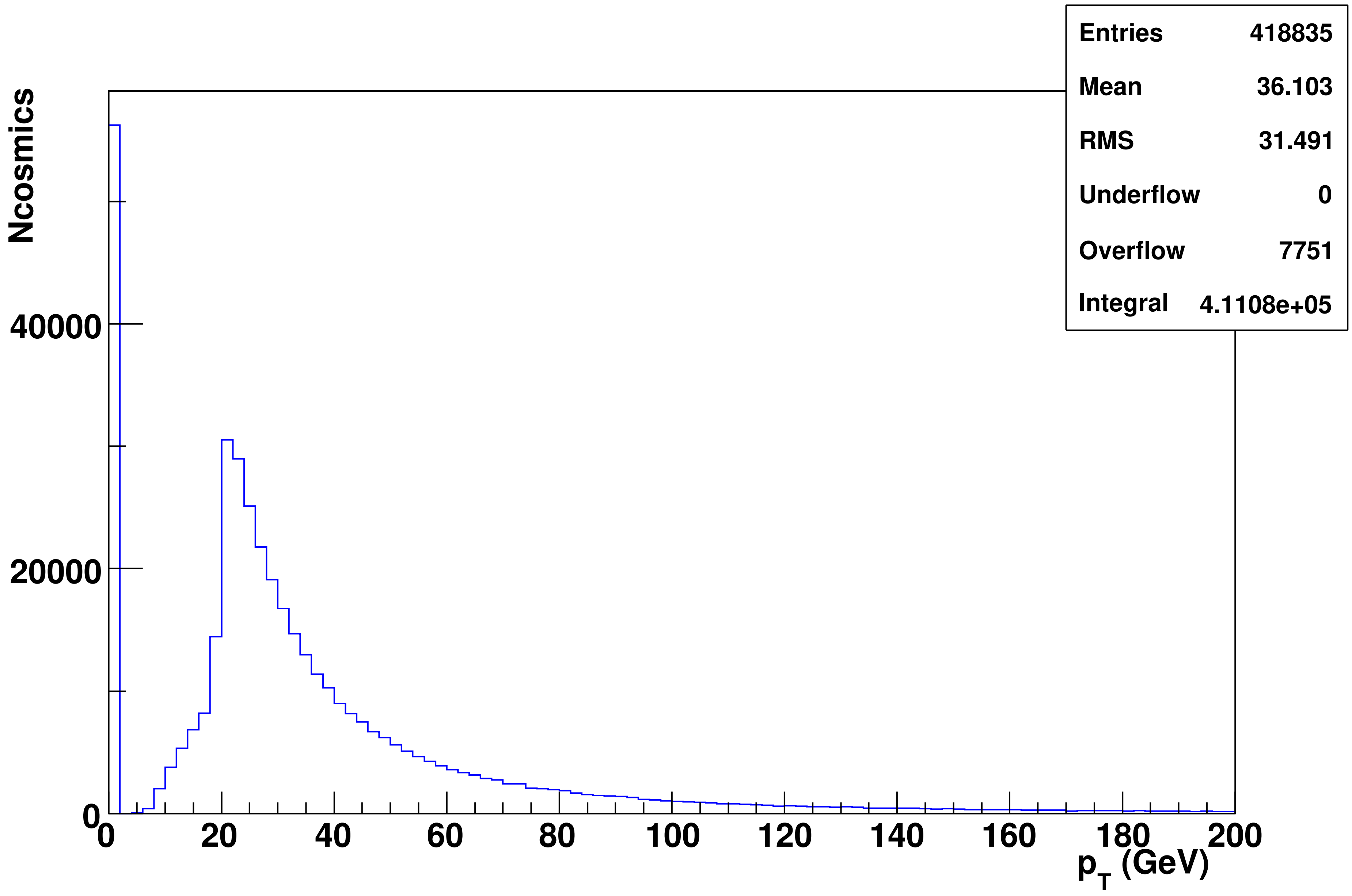

Entries 418835
Mean 1.5253
RMS 9.6429
Underflow 56592
Overflow 154
Integral 3.6209e+05
number of cosmics
0
10000
20000
-30
-20
-10
0
10
20
30
t_0 (ns)

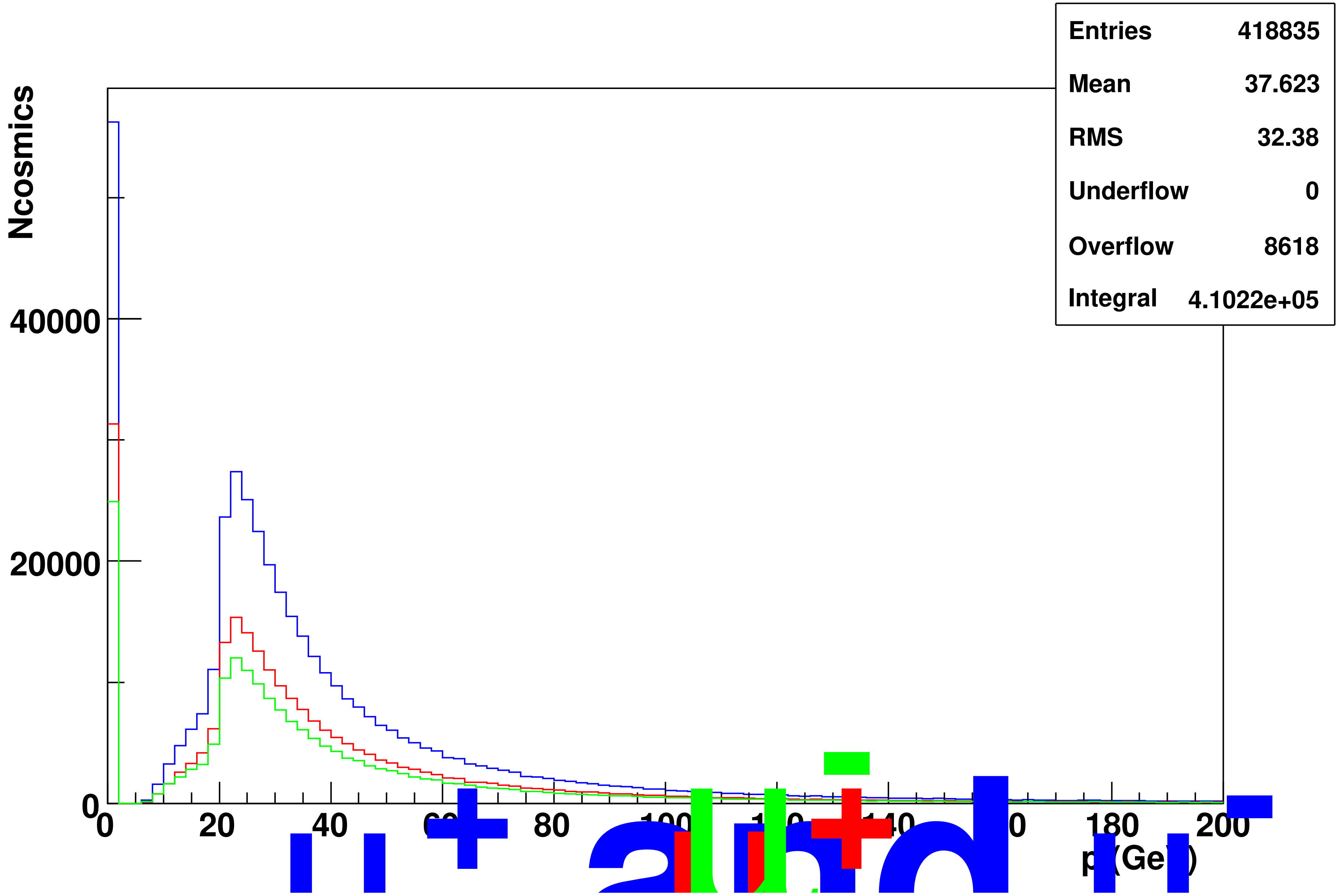

Entries 418835
Mean 0.00082371
RMS 0.32316
Underflow 57801
Overflow 1563
Integral 3.5947e+05
number of cosmics
20000
10000
0
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
cot θ



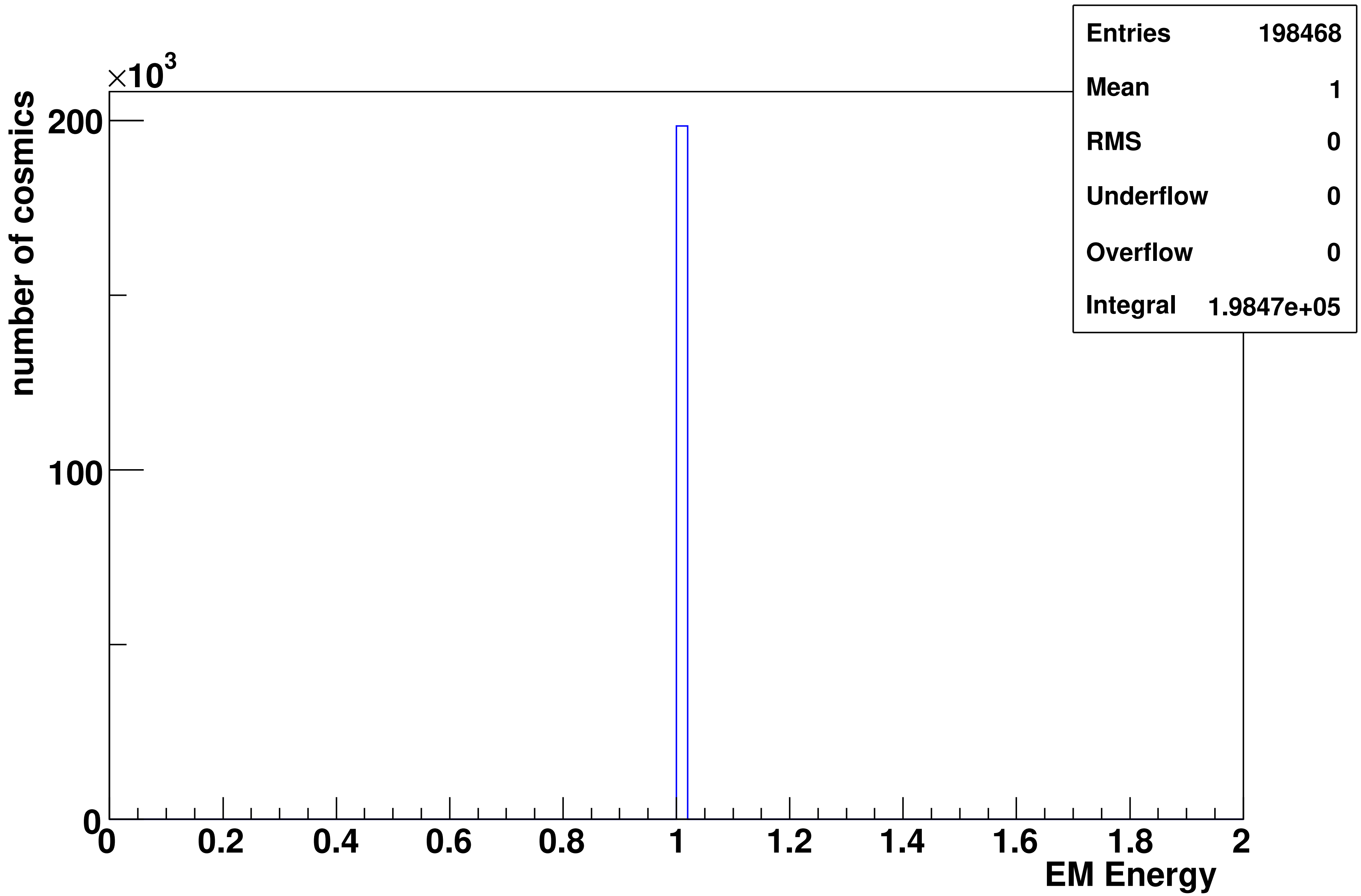
Entries 418835
Mean -1.011
RMS 74.289
Underflow 56237
Overflow 0
Integral 3.626e+05
number of cosmics
0
2000
4000
6000
-150
-100
-50
0
50
100
150
z_0 (cm)


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

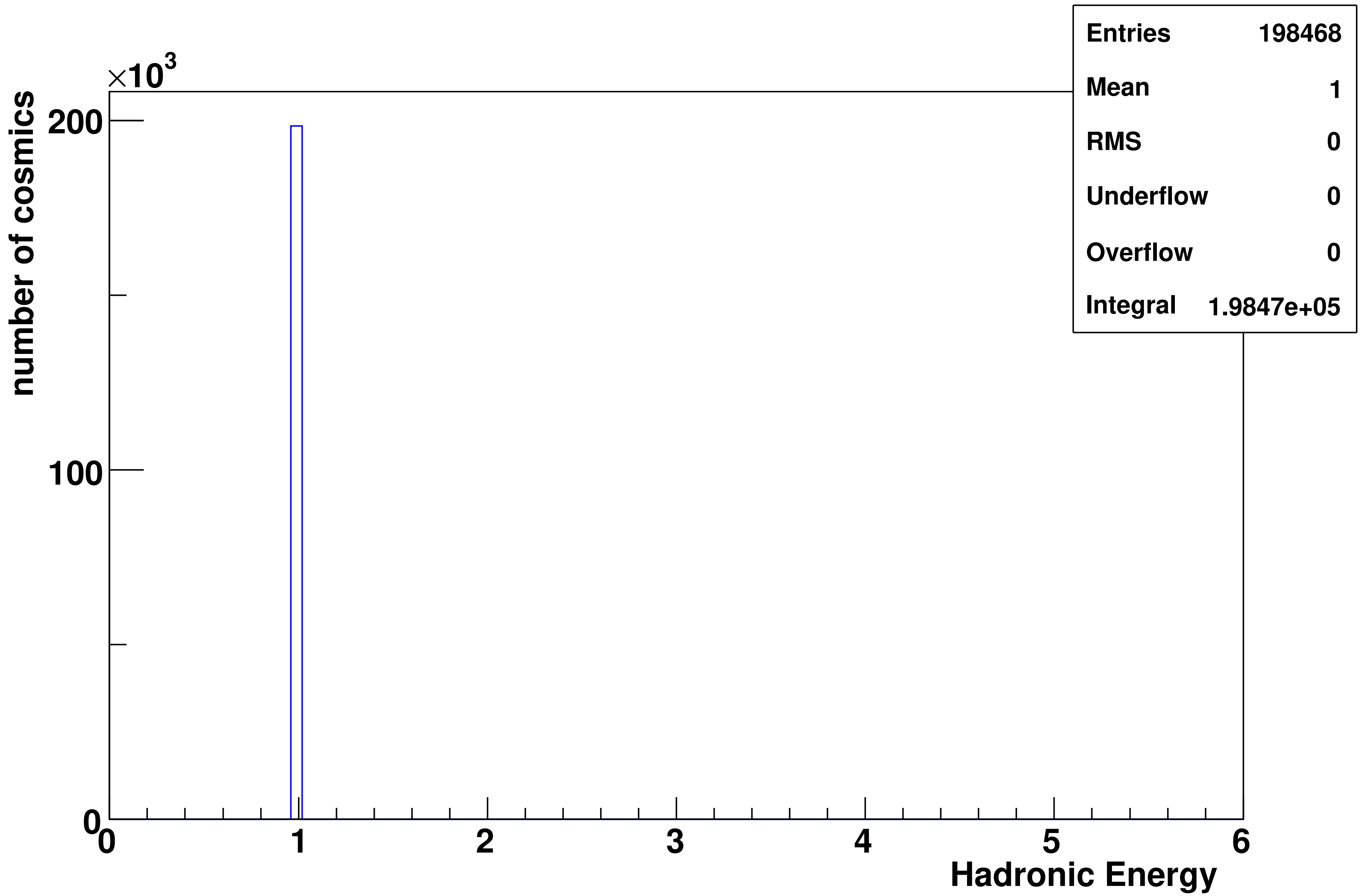

Entries 418835
Mean 36.103
RMS 31.491
Underflow 0
Overflow 7751
Integral 4.1108e+05
Ncosmics
0
20000
40000
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV)



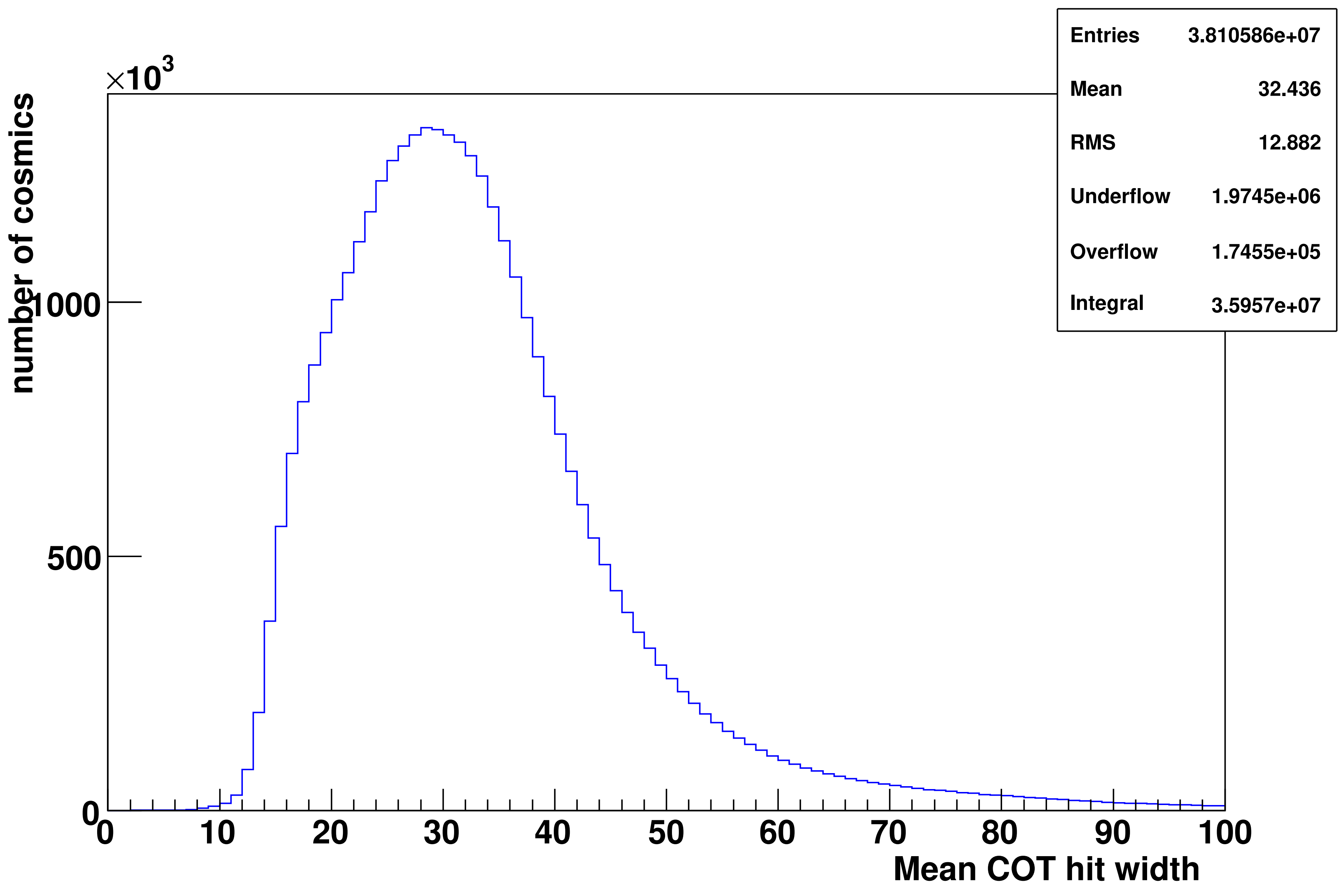
Entries 418835
Mean 37.623
RMS 32.38
Underflow 0
Overflow 8618
Integral 4.1022e+05
Ncosmics
40000
20000
0
0
20
40
80
180
200



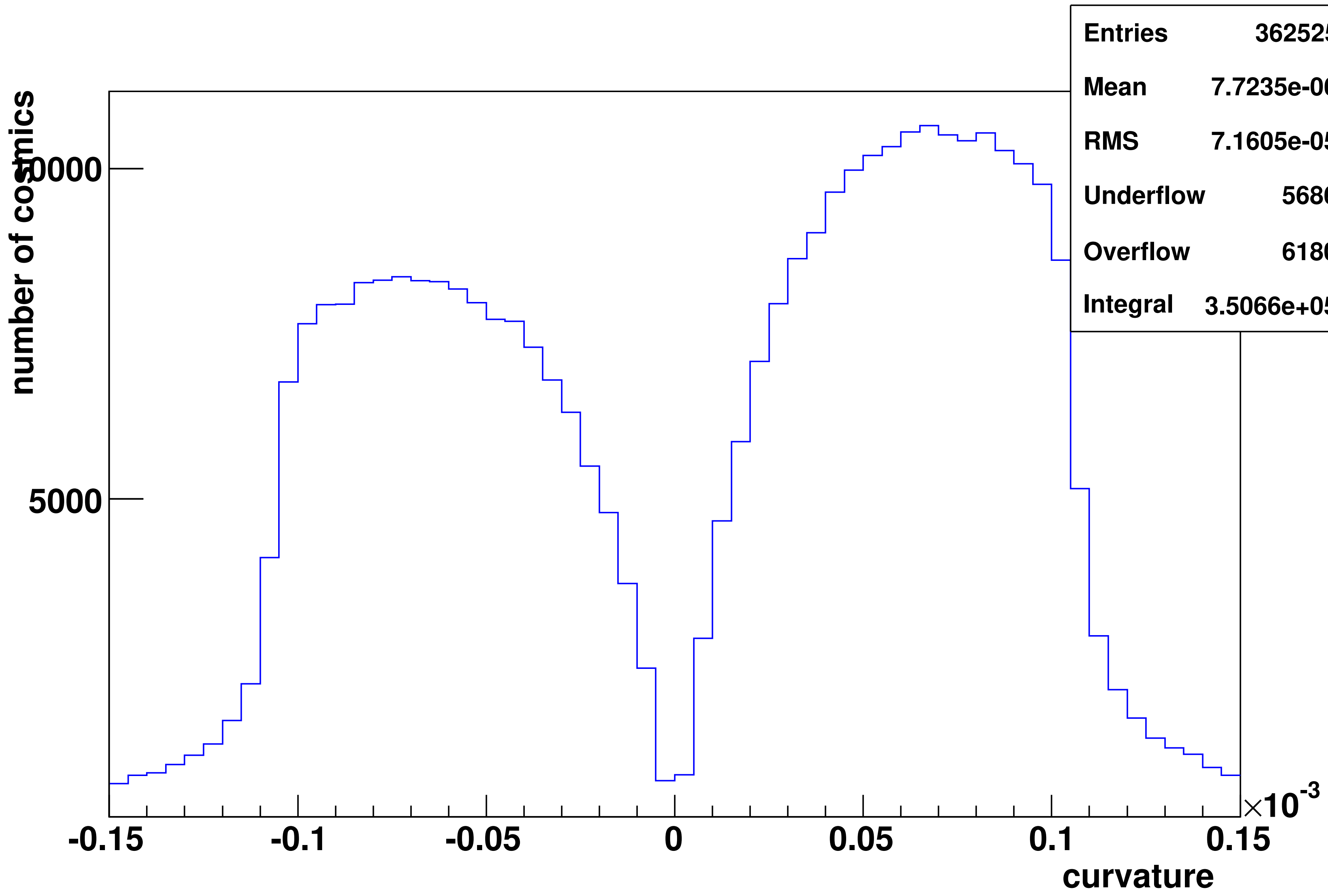
Entries 198468
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 1.9847e+05
×10^3
number of cosmics
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
EM Energy



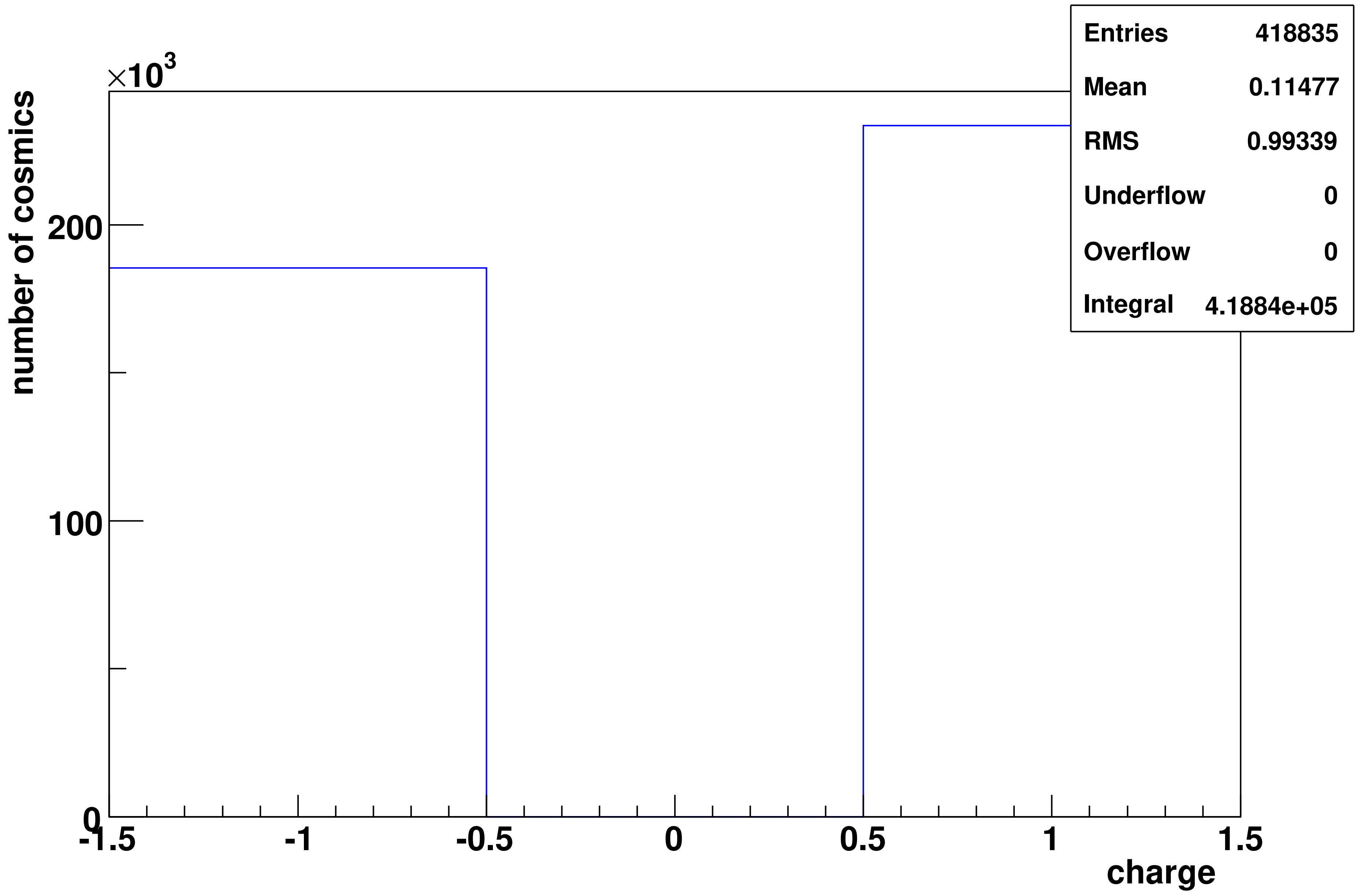
Entries 198468
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 1.9847e+05
$\times 10^3$
number of cosmics
200
100
0
0
1
2
3
4
5
6
Hadronic Energy



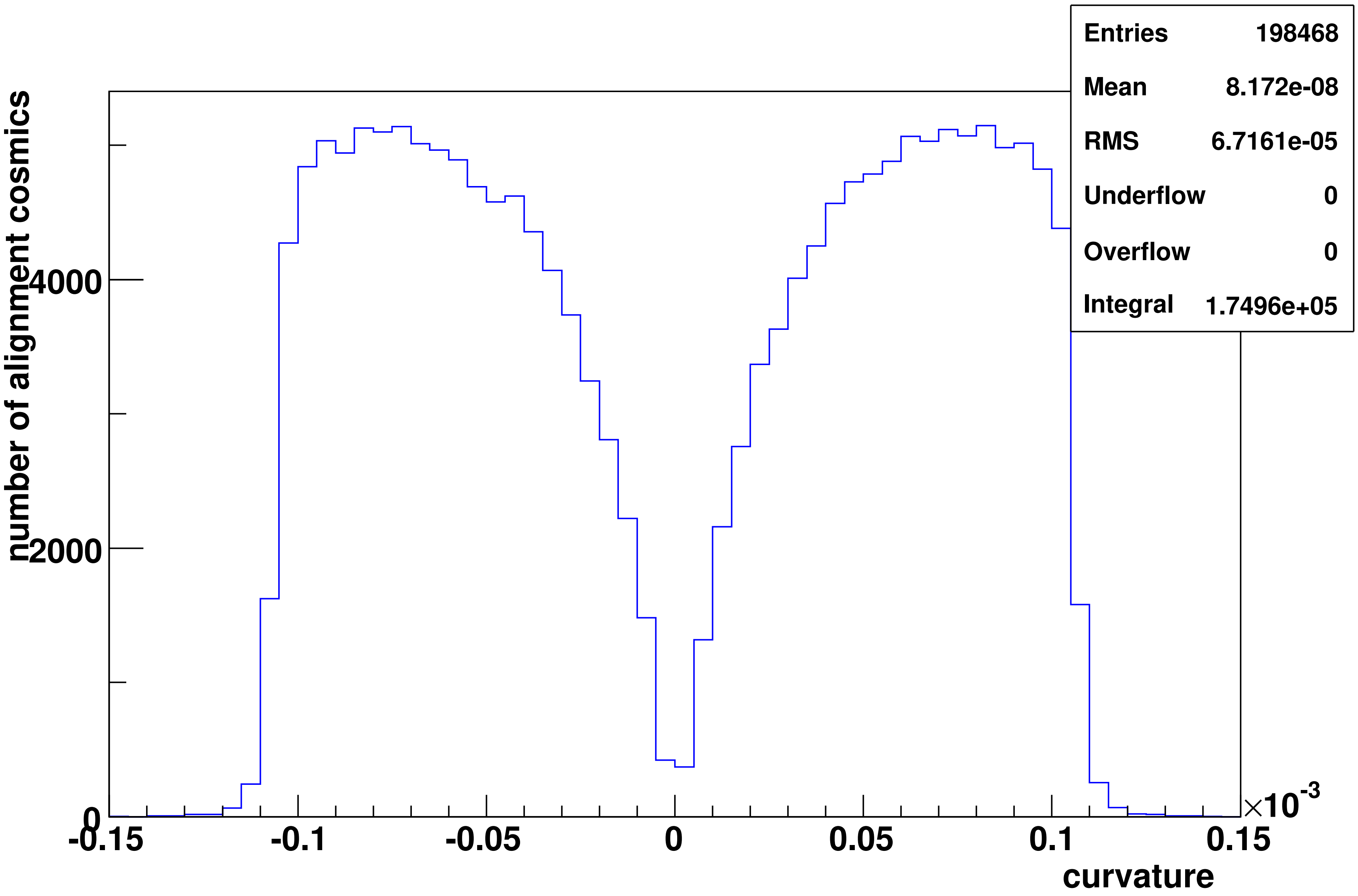
Entries 3.810586e+07
Mean 32.436
RMS 12.882
Underflow 1.9745e+06
Overflow 1.7455e+05
Integral 3.5957e+07
×10^3
number of cosmics
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
Mean COT hit width



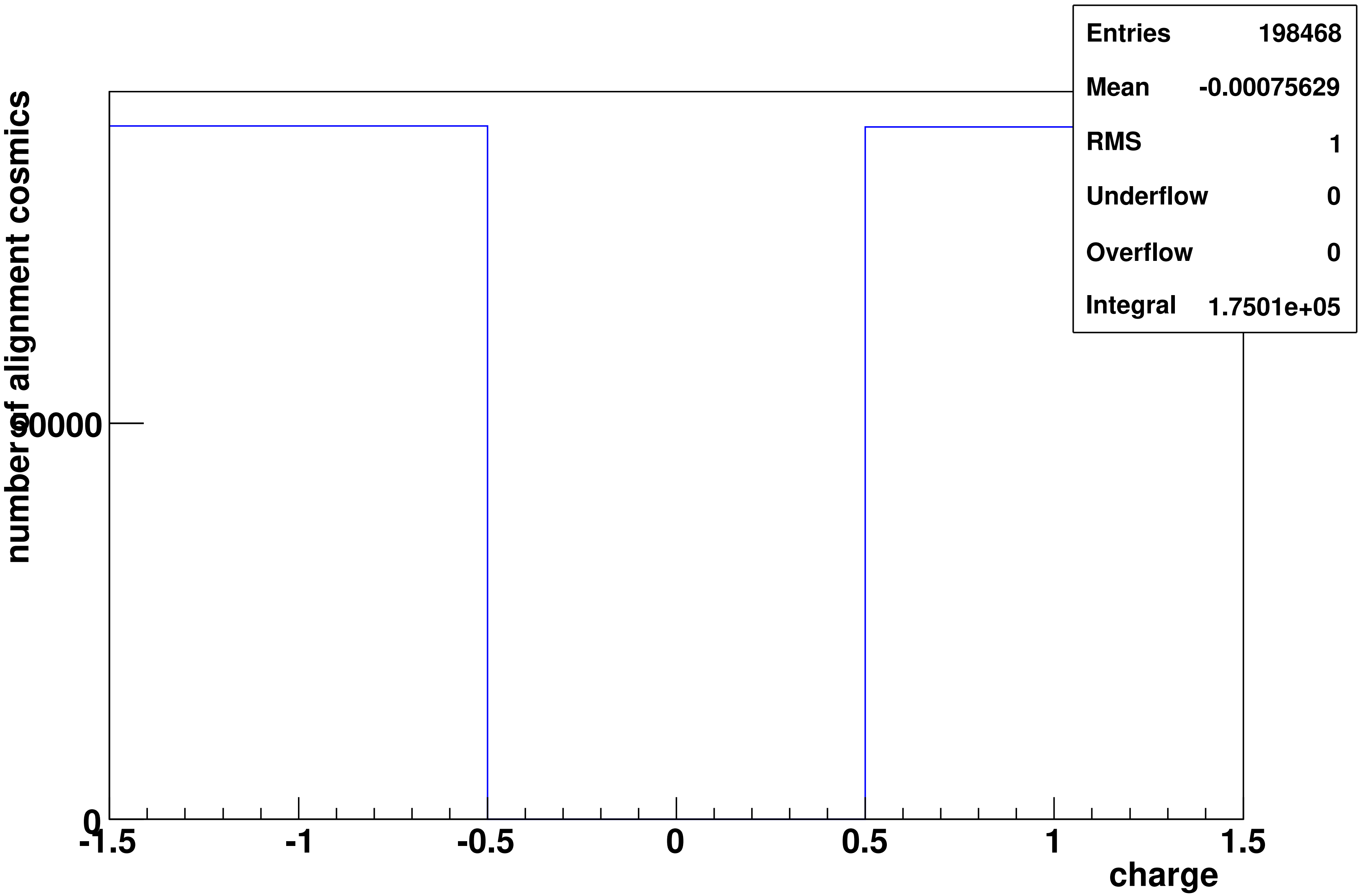
Entries 362525
Mean 7.7235e-06
RMS 7.1605e-05
Underflow 5686
Overflow 6180
Integral 3.5066e+05
number of cosmics
10000
5000
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature

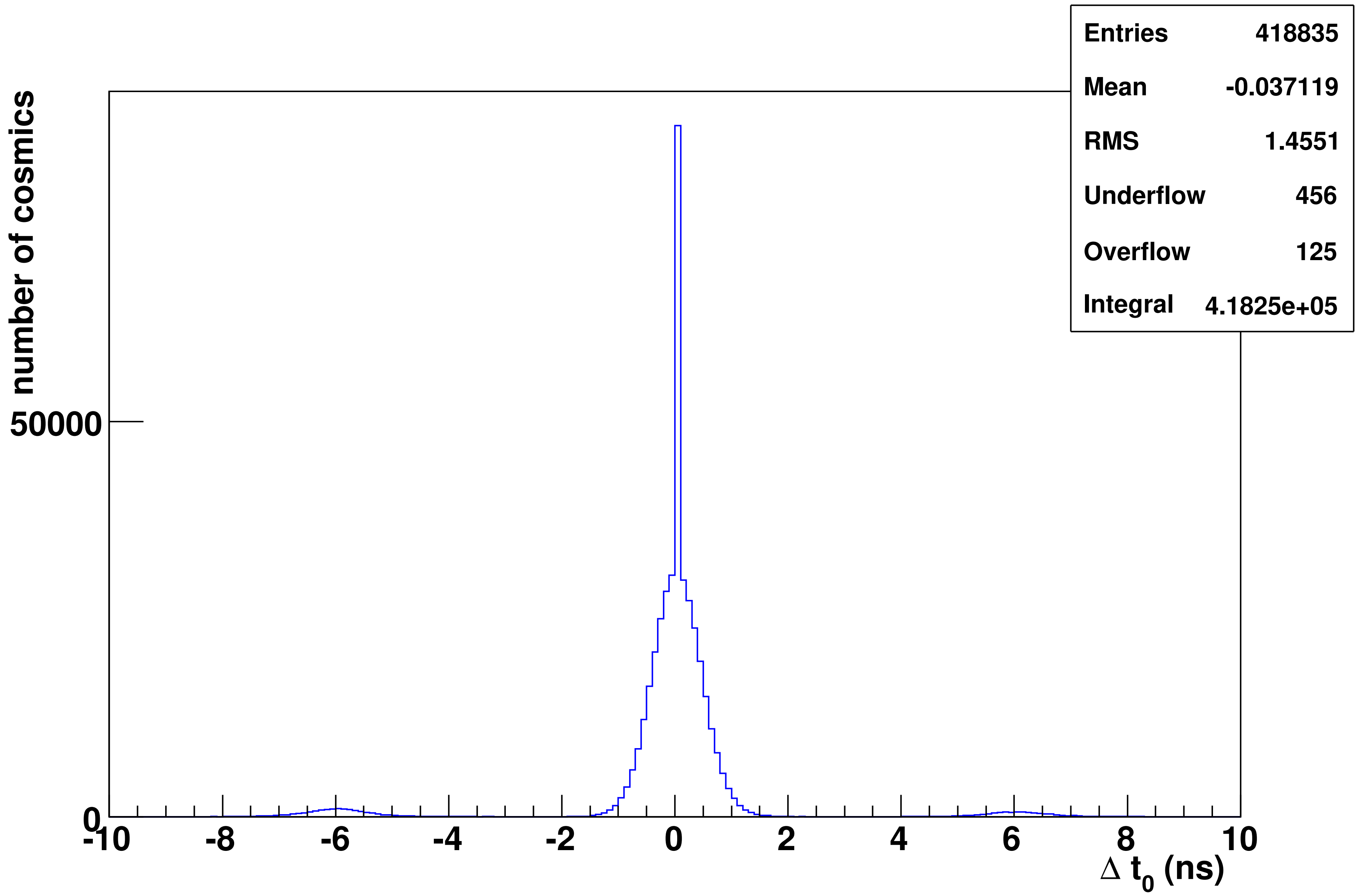


Entries 418835
Mean 0.11477
RMS 0.99339
Underflow 0
Overflow 0
Integral 4.1884e+05
$\times 10^3$
number of cosmics
200
100
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

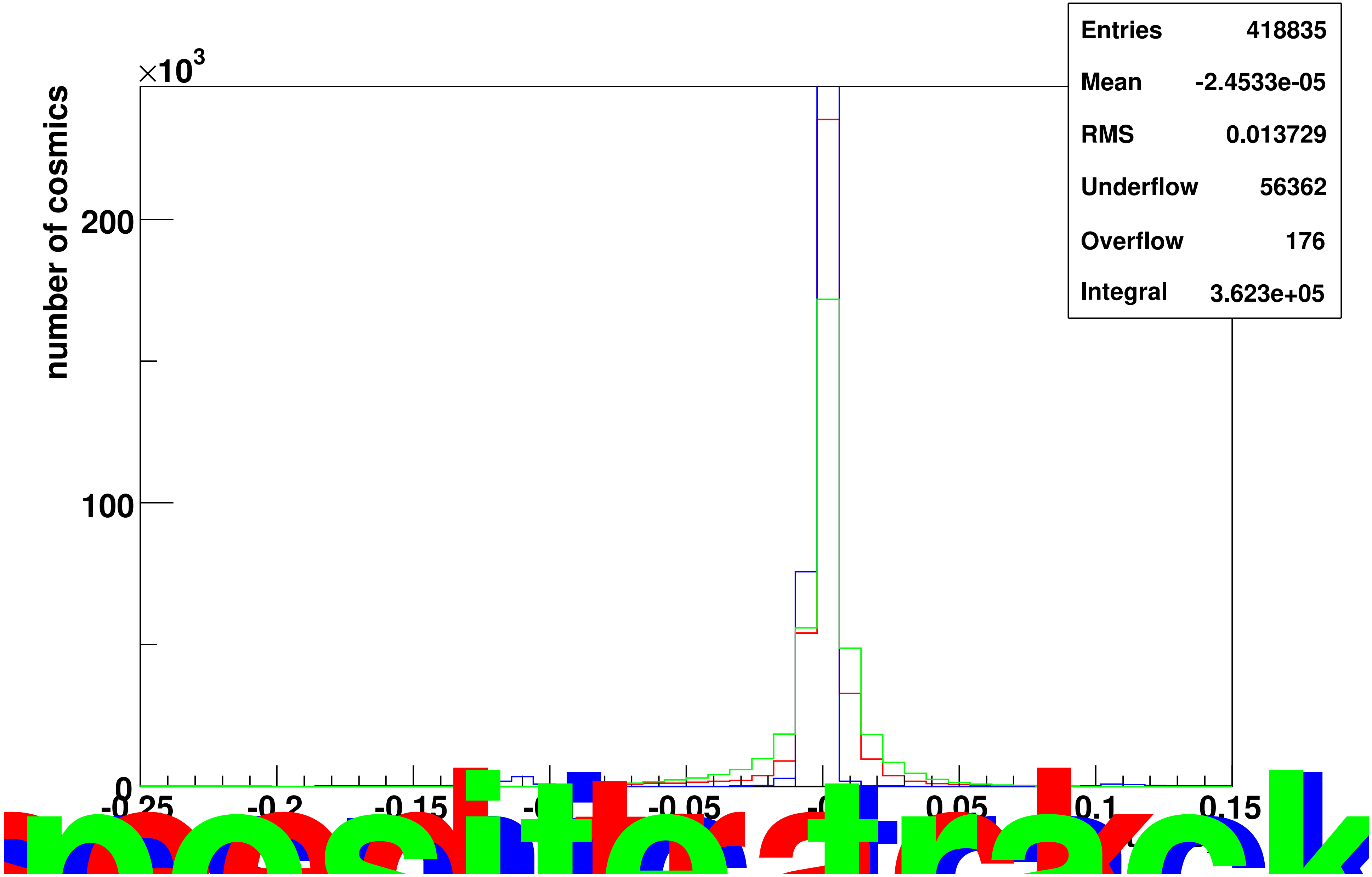


Entries 198468
Mean 8.172e-08
RMS 6.7161e-05
Underflow 0
Overflow 0
Integral 1.7496e+05
number of alignment cosmics
4000
2000
0
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10-3
curvature

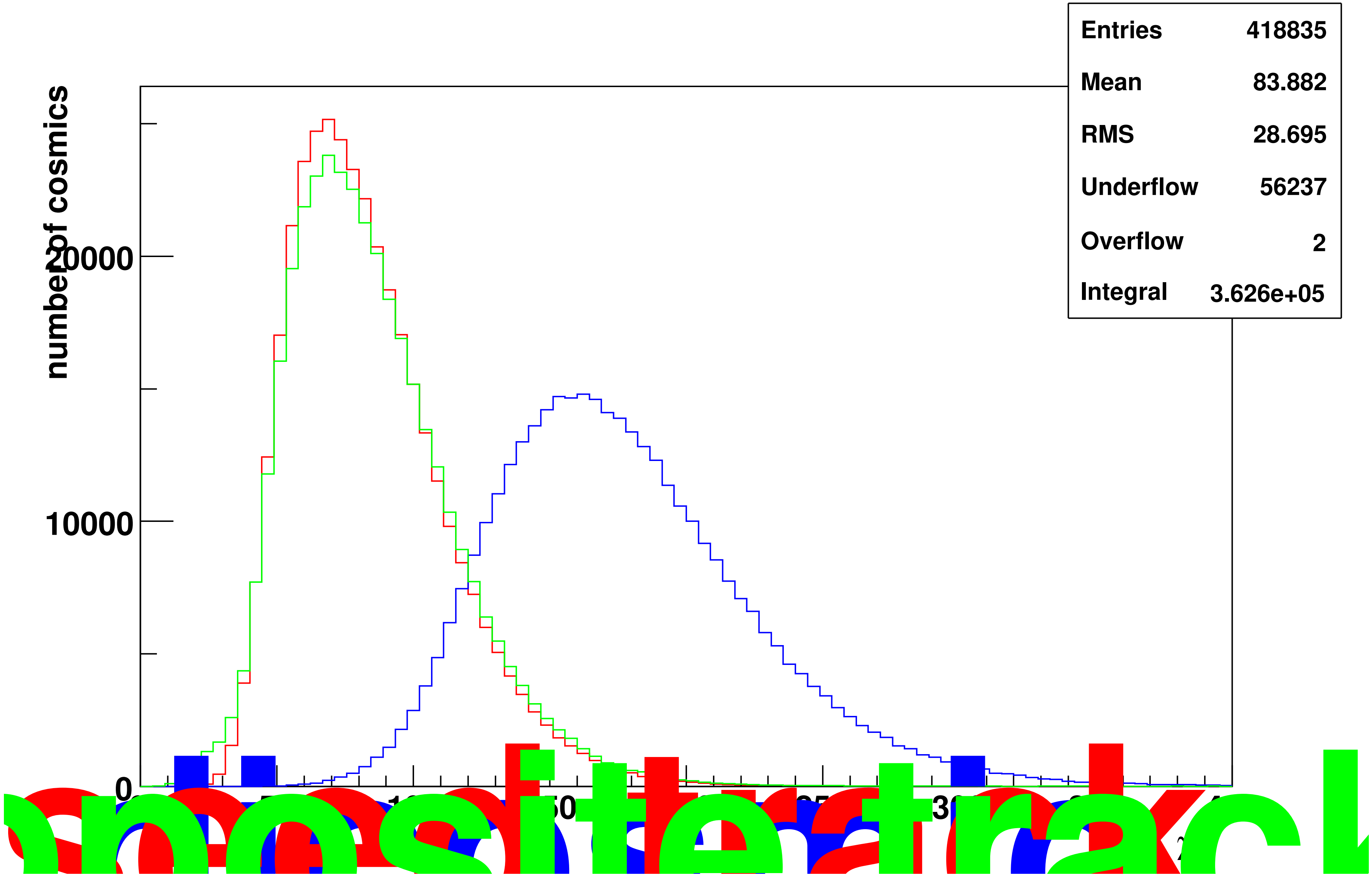

Entries 198468
Mean -0.00075629
RMS 1
Underflow 0
Overflow 0
Integral 1.7501e+05
number of alignment cosmics
50000
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

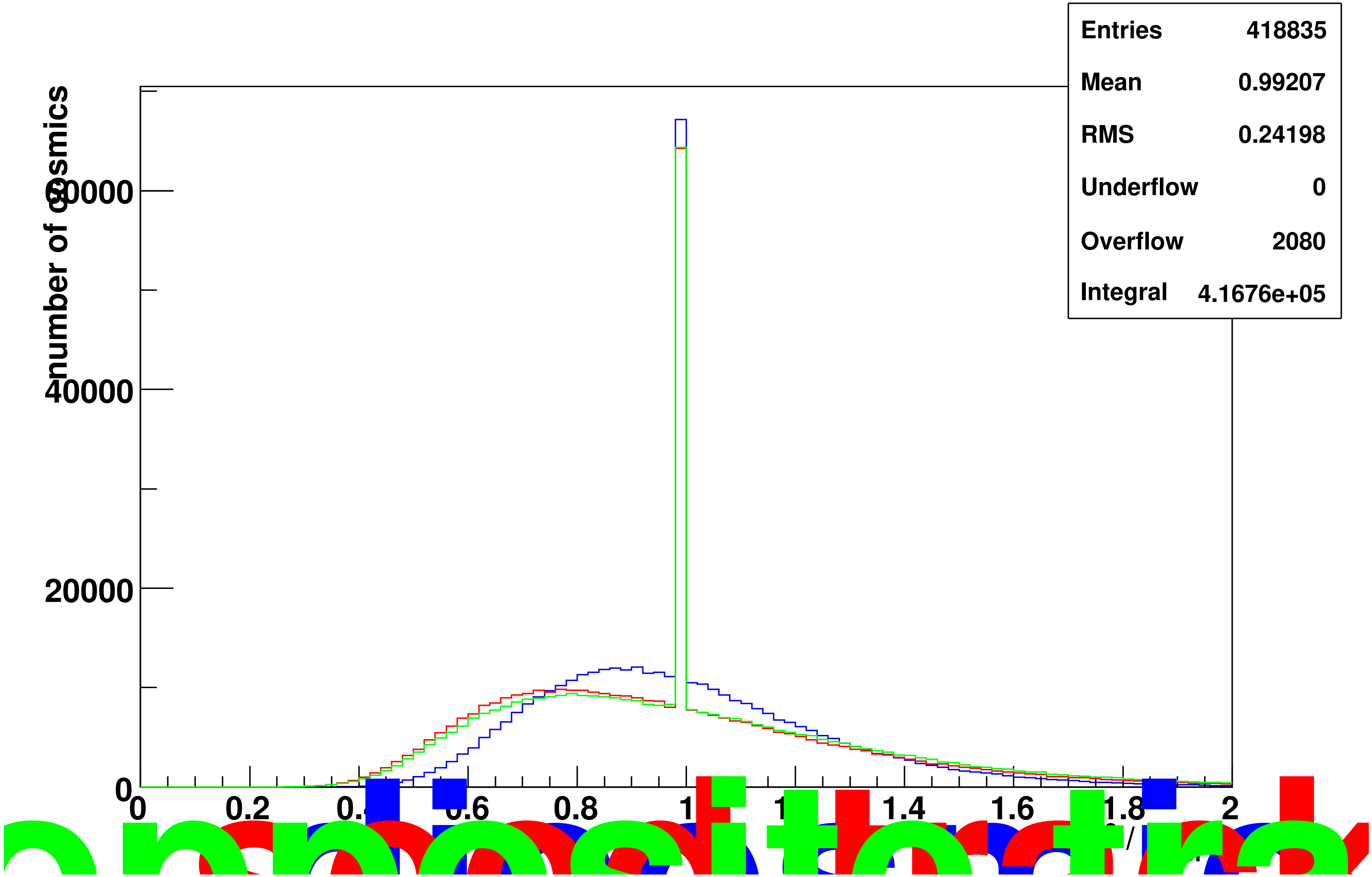


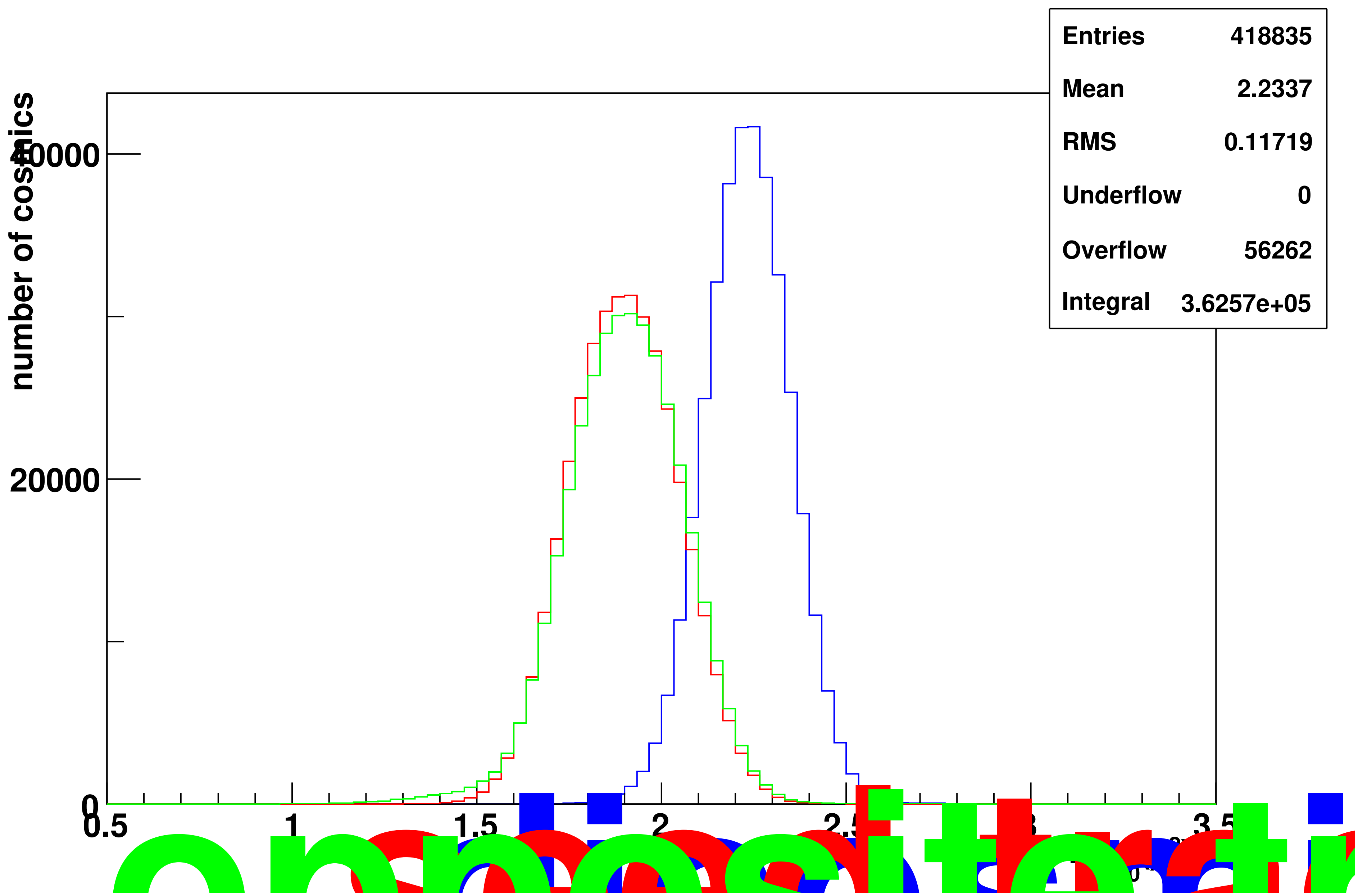
Entries 418835
Mean -0.037119
RMS 1.4551
Underflow 456
Overflow 125
Integral 4.1825e+05
number of cosmics
50000
0
-10
-8
-6
-4
-2
0
2
4
6
8
10
Δ t_0 (ns)



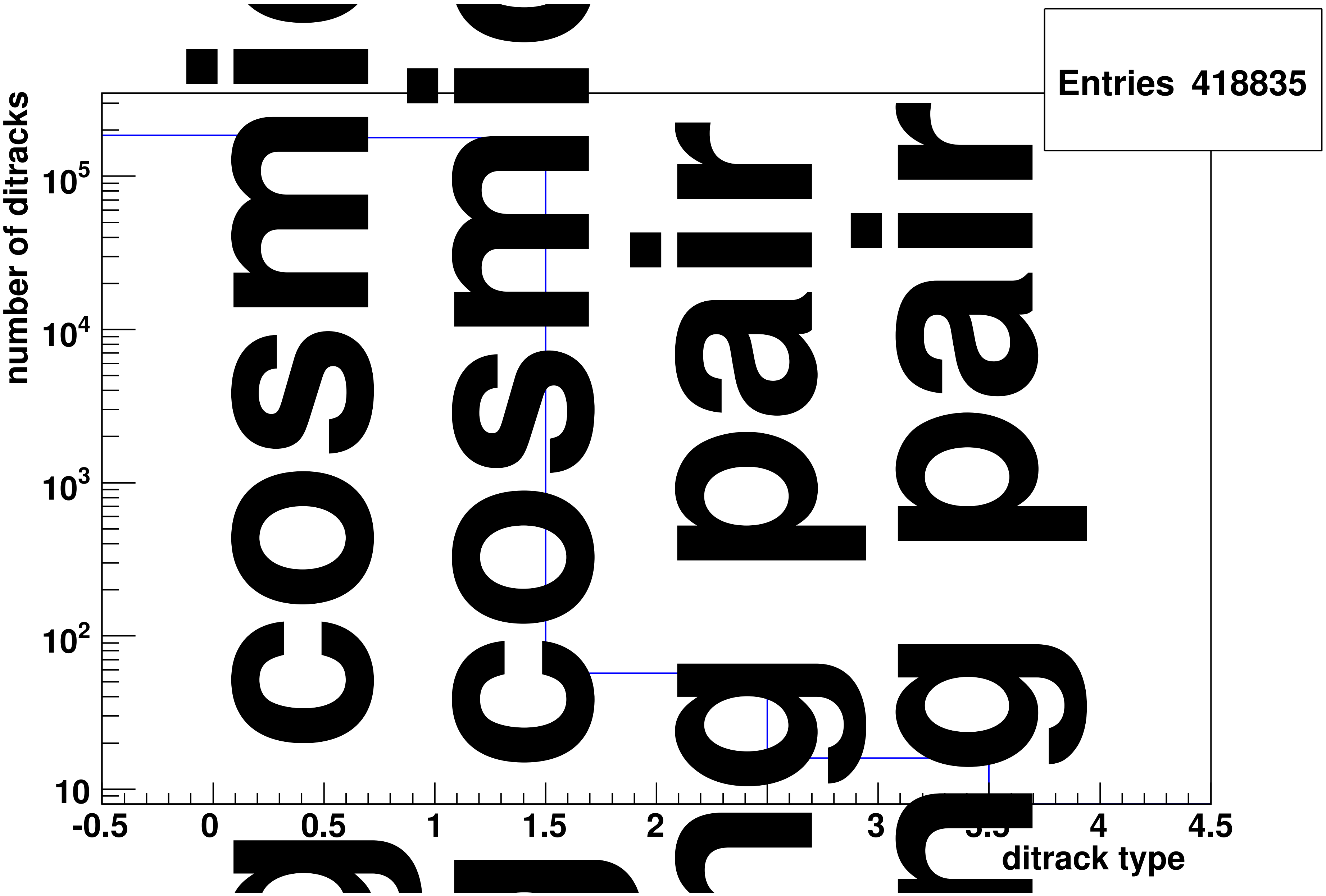
Entries 418835
Mean -2.4533e-05
RMS 0.013729
Underflow 56362
Overflow 176
Integral 3.623e+05
number of cosmics
×10^3
200
100
0
0.05
0.1
0.15


Entries 418835
Mean 83.882
RMS 28.695
Underflow 56237
Overflow 2
Integral 3.626e+05
number of cosmics
20000
10000
0

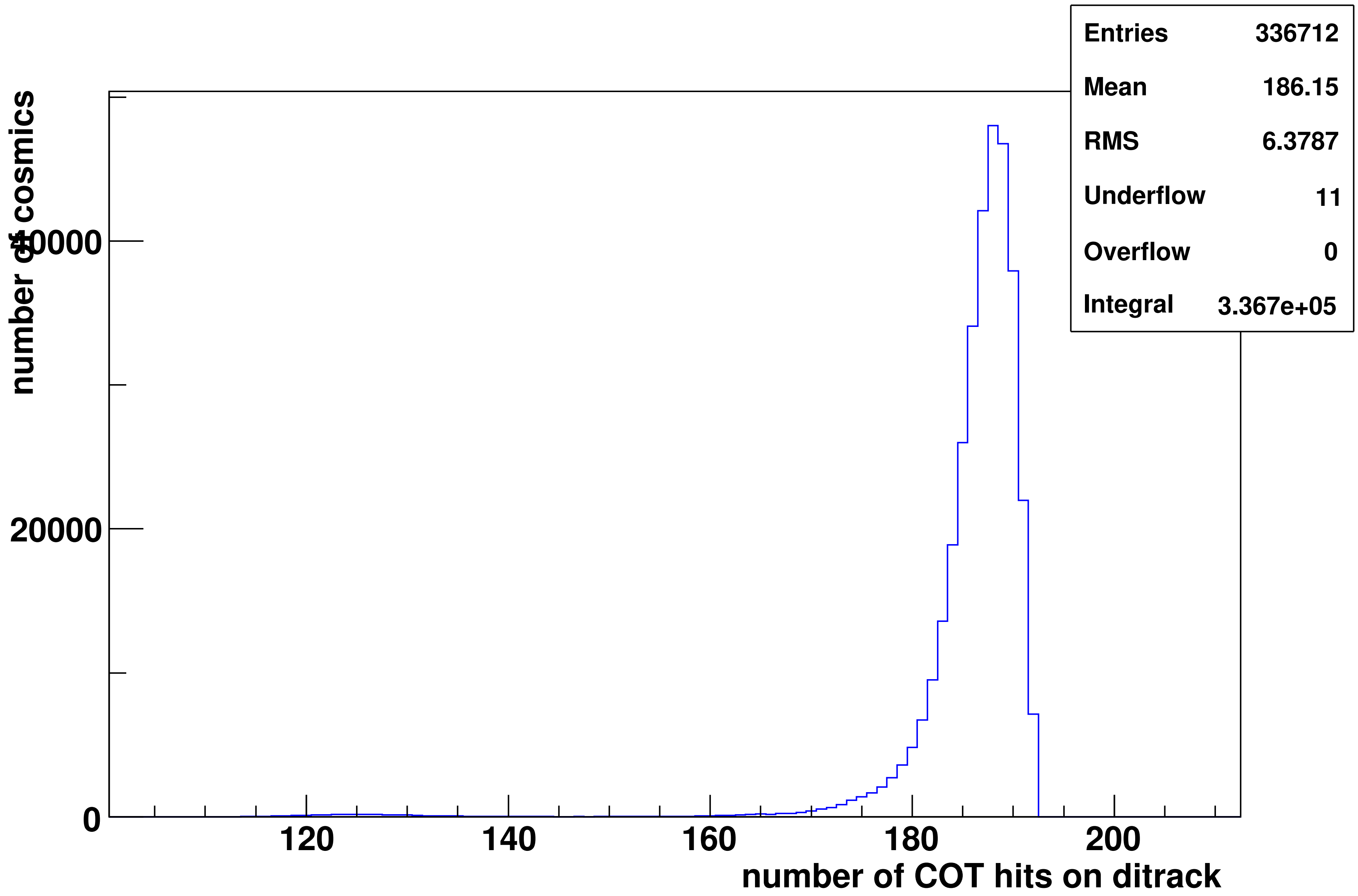

Entries 418835
Mean 0.99207
RMS 0.24198
Underflow 0
Overflow 2080
Integral 4.1676e+05
number of cosmics
40000
20000
0
0
0.2
0.8
1
1.4
1.6
1.8
2

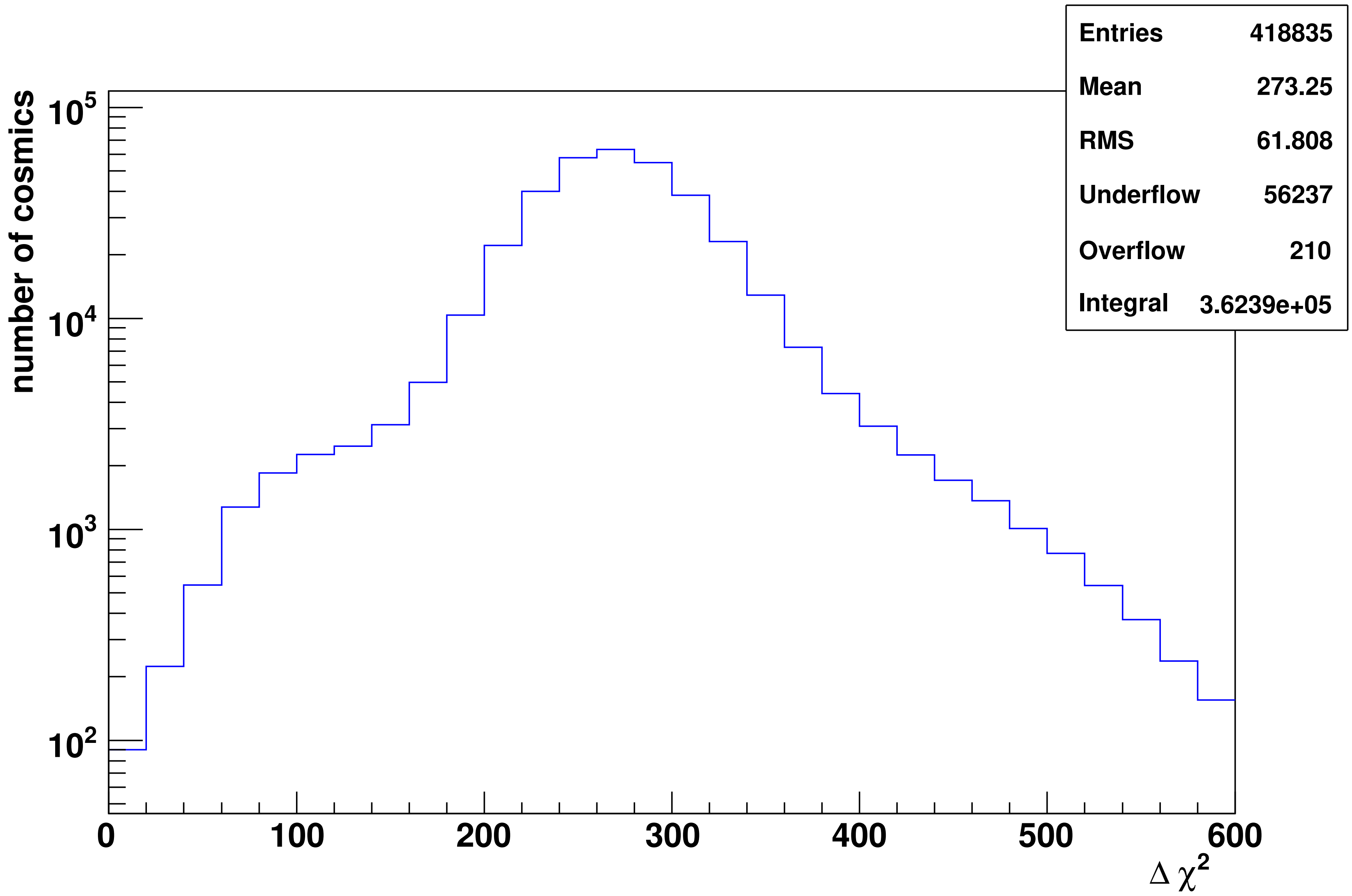


number of cosmics
40000
20000
0
0.5
1
1.5
2
2.5
3
3.5
Entries 418835
Mean 2.2337
RMS 0.11719
Underflow 0
Overflow 56262
Integral 3.6257e+05

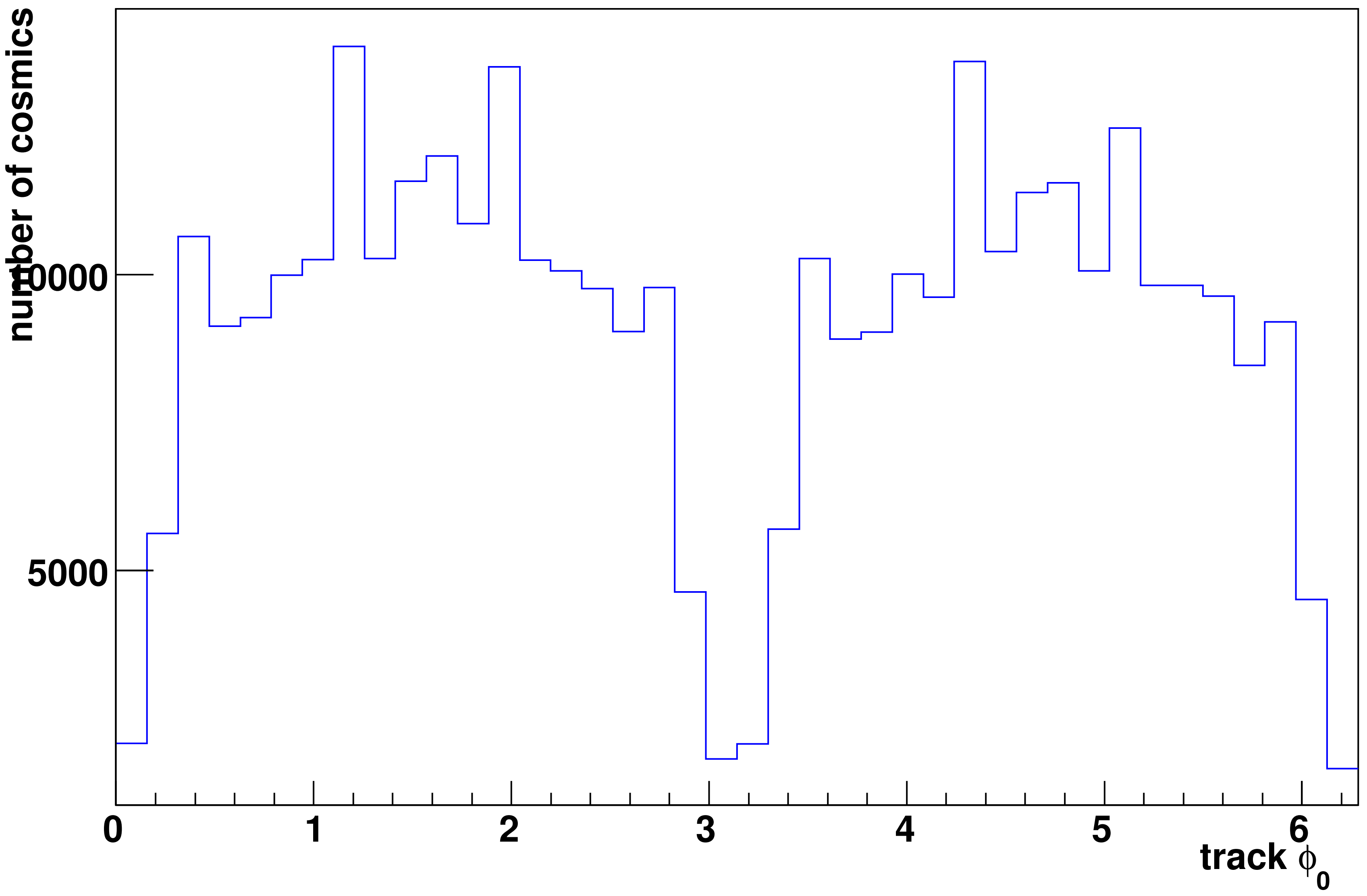


Entries 418835
number of ditracks
10^5
10^4
10^3
10^2
10
-0.5
0
0.5
1
1.5
2
3
4
4.5
ditrack type

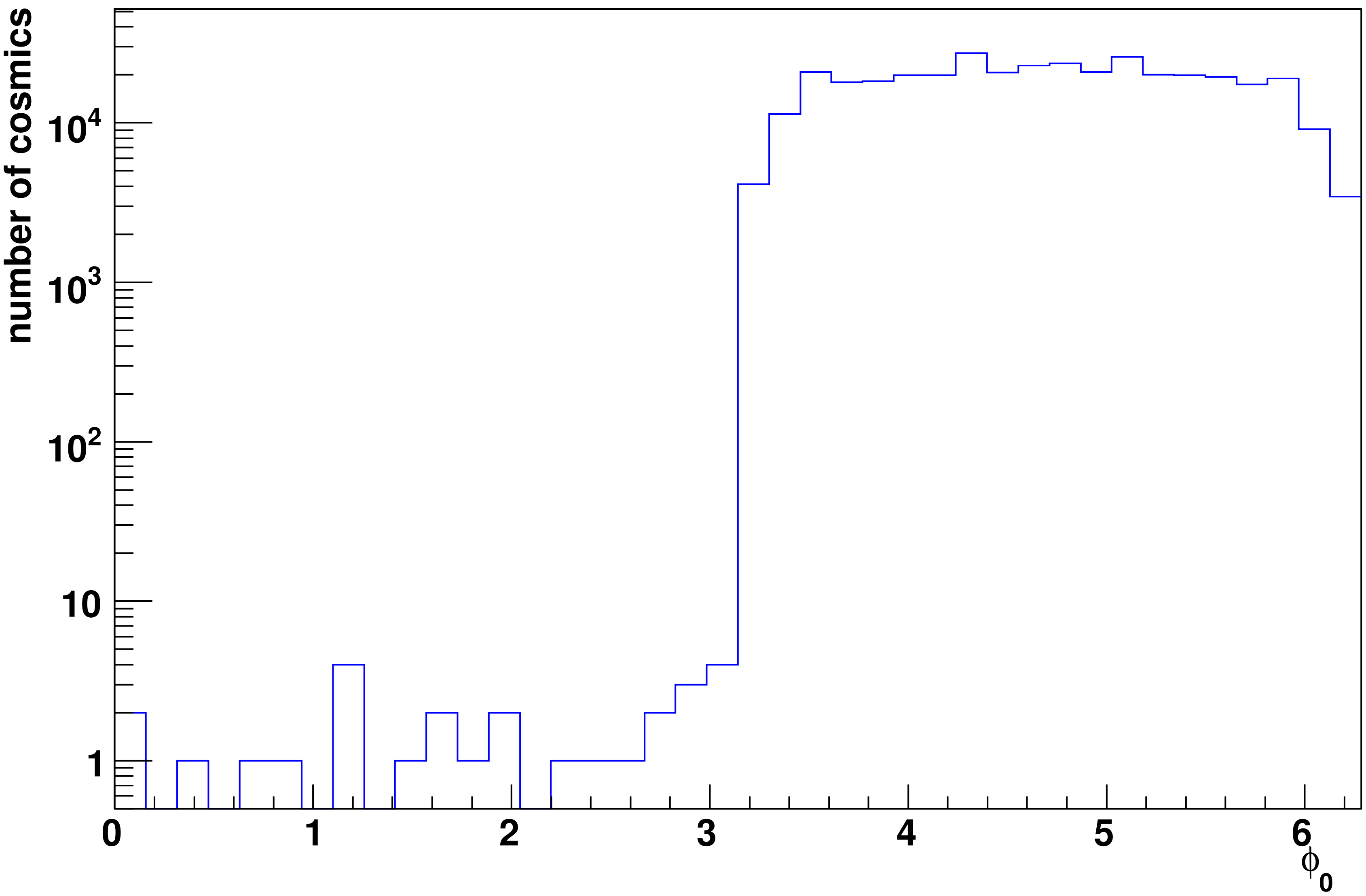

Entries 336712
Mean 186.15
RMS 6.3787
Underflow 11
Overflow 0
Integral 3.367e+05
number of cosmics
0
20000
40000
120
140
160
180
200
number of COT hits on ditrack



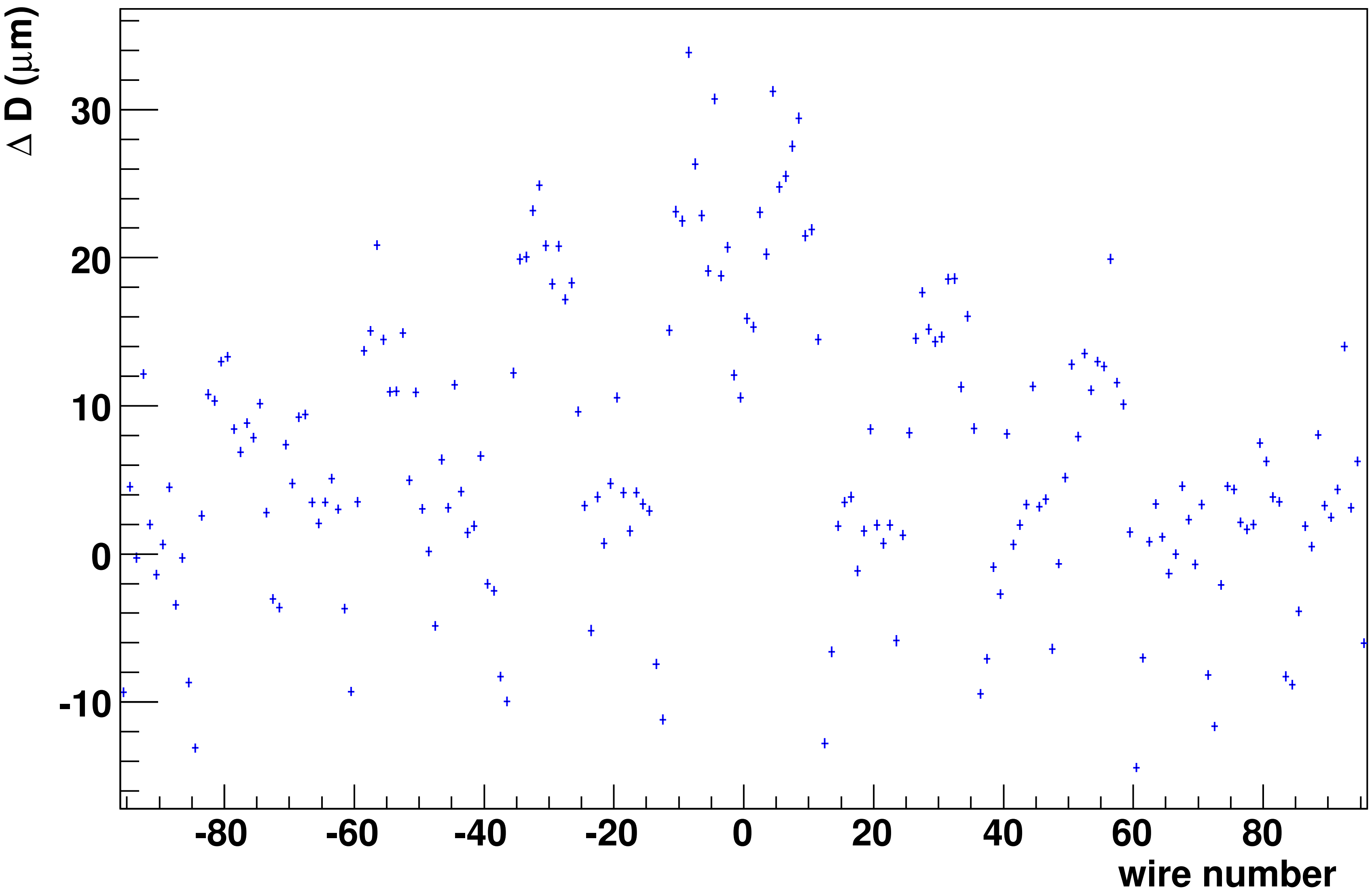
Entries 418835
Mean 273.25
RMS 61.808
Underflow 56237
Overflow 210
Integral 3.6239e+05
number of cosmics
10^5
10^4
10^3
10^2
0
100
200
300
400
500
600
$\Delta\chi^2$



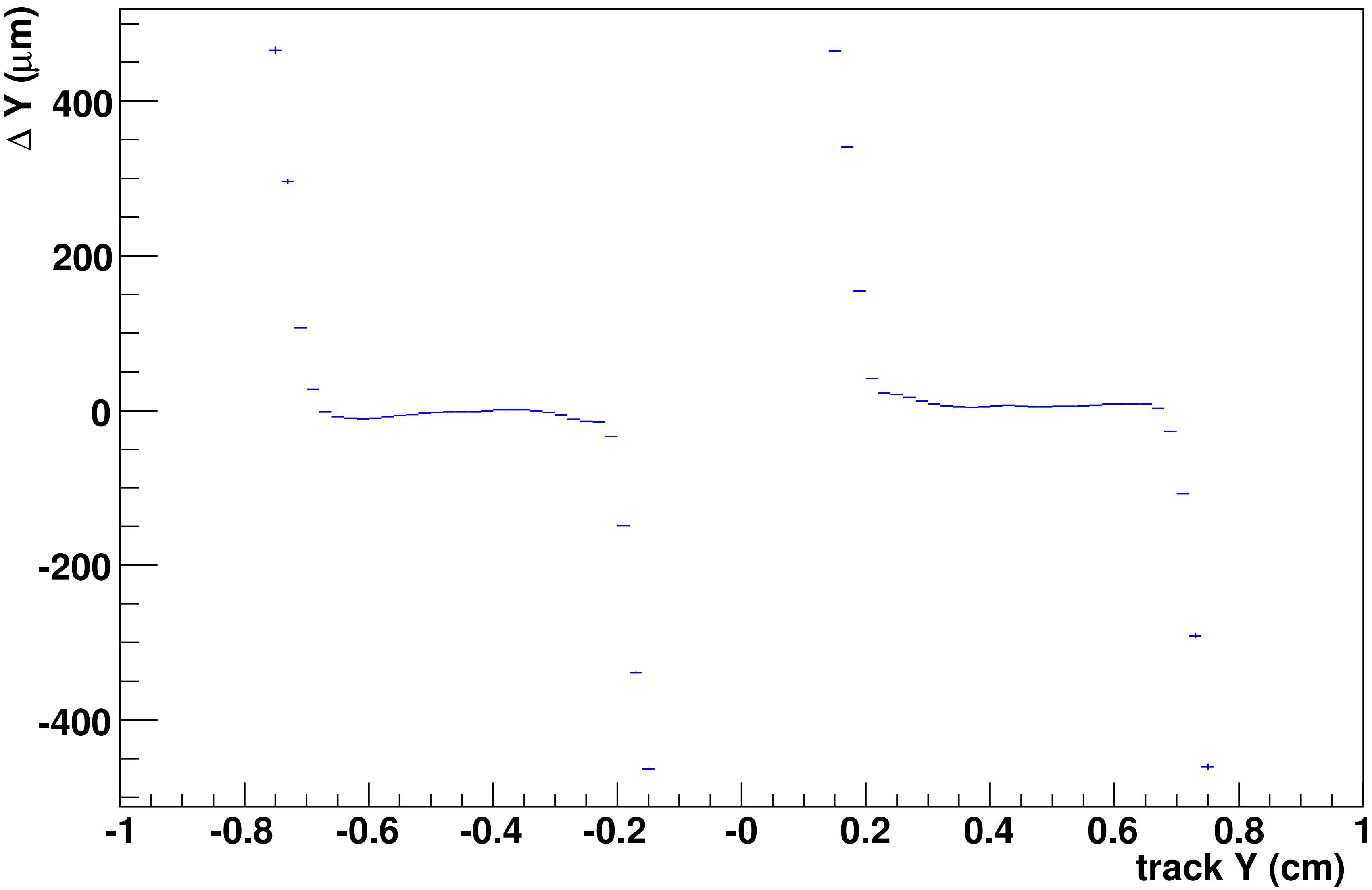
number of cosmics
10000
5000
0
1
2
3
4
5
6
track ϕ_0



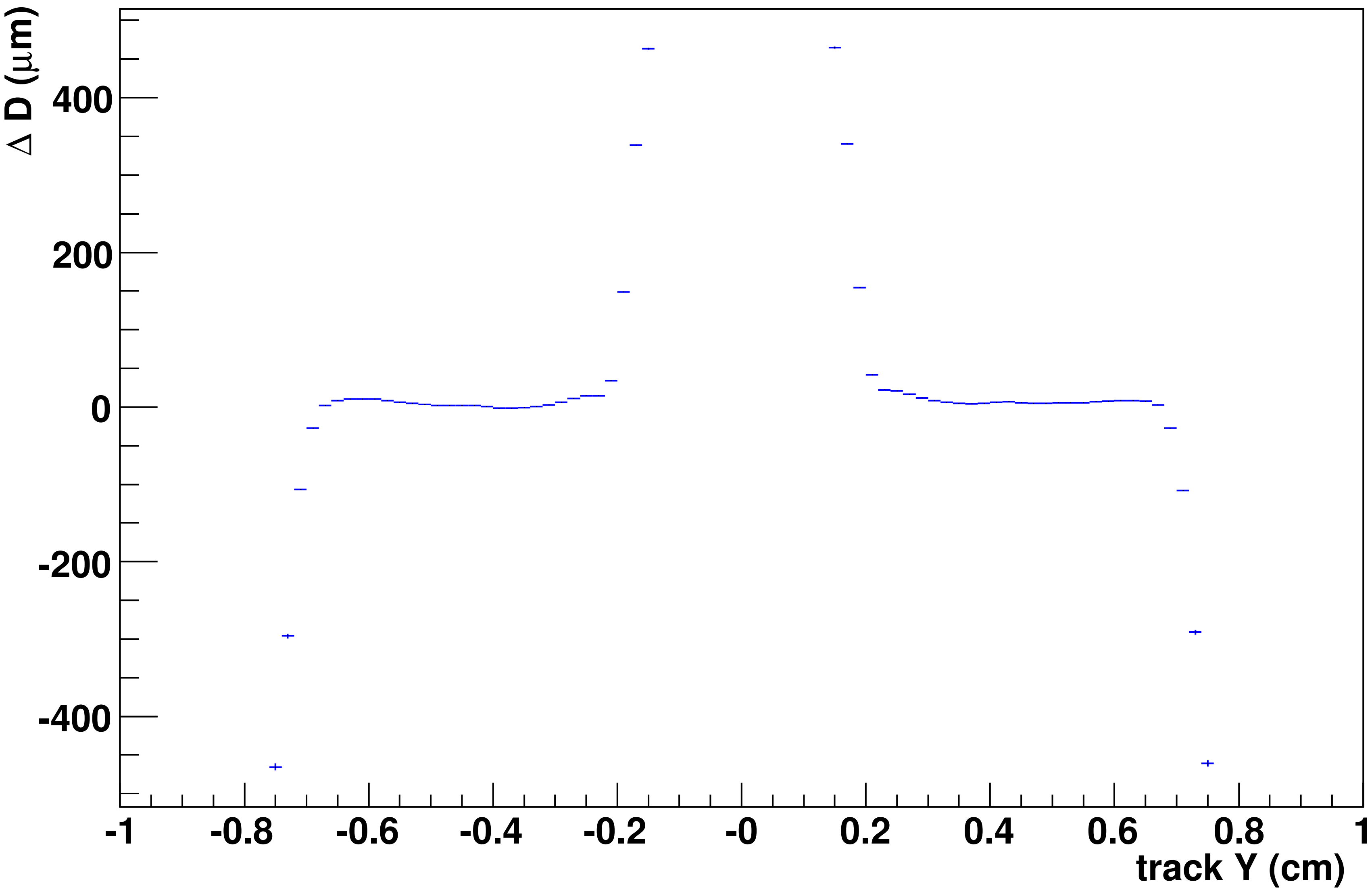
number of cosmics
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
ϕ_0



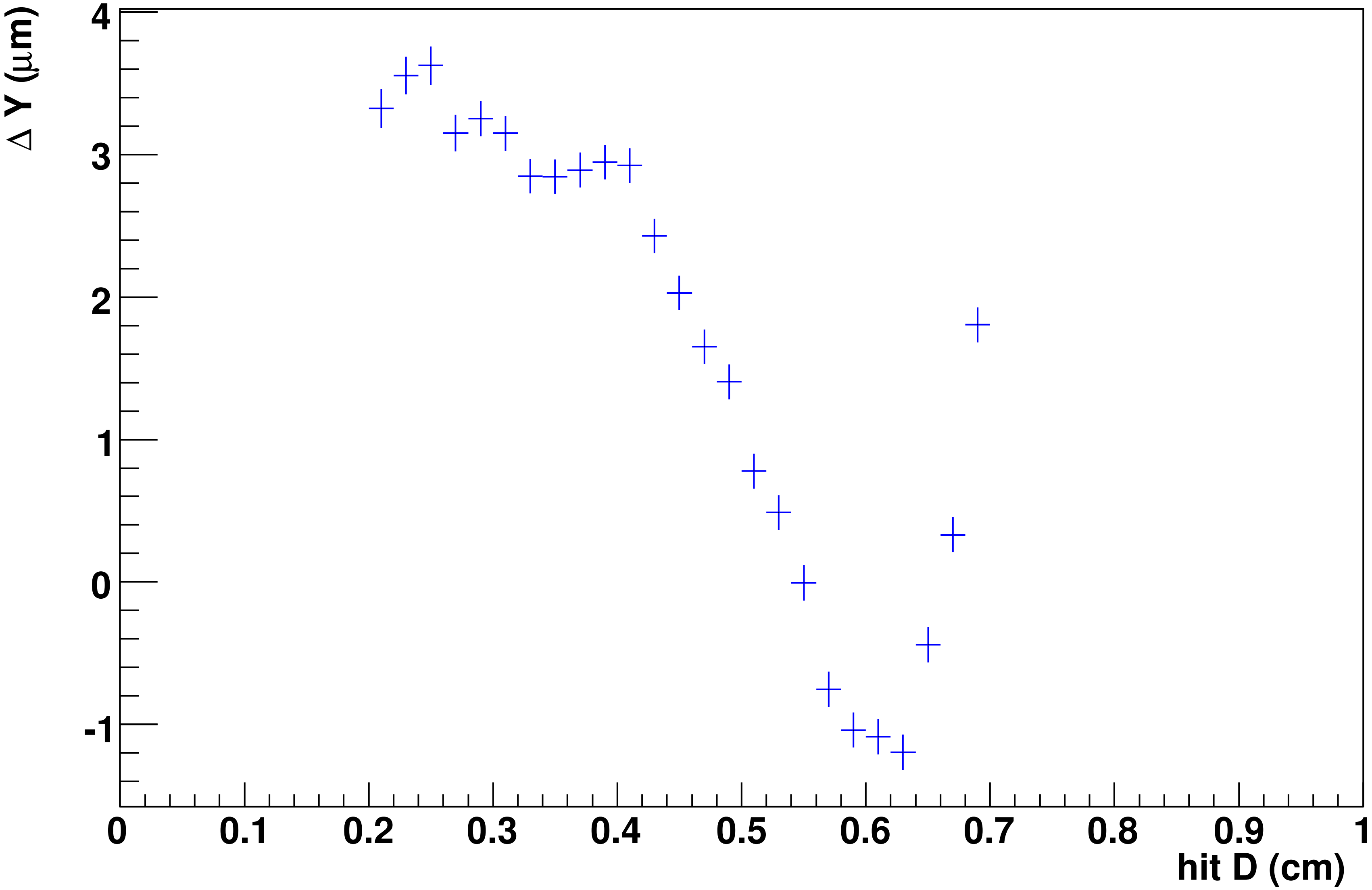
Δ D (μm)
30
20
10
0
-10
-80
-60
-40
-20
0
20
40
60
80
wire number



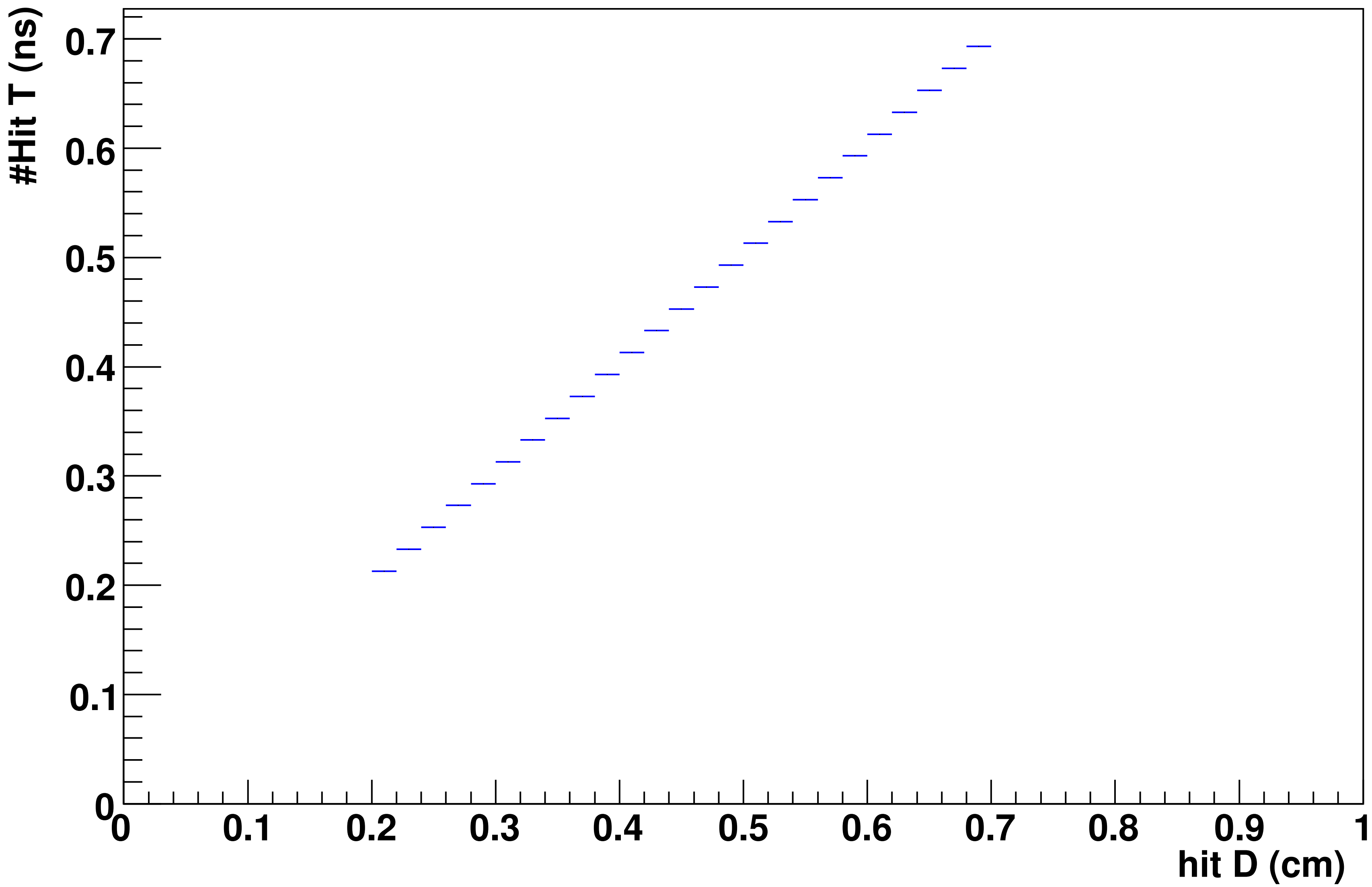
Δ Y (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)



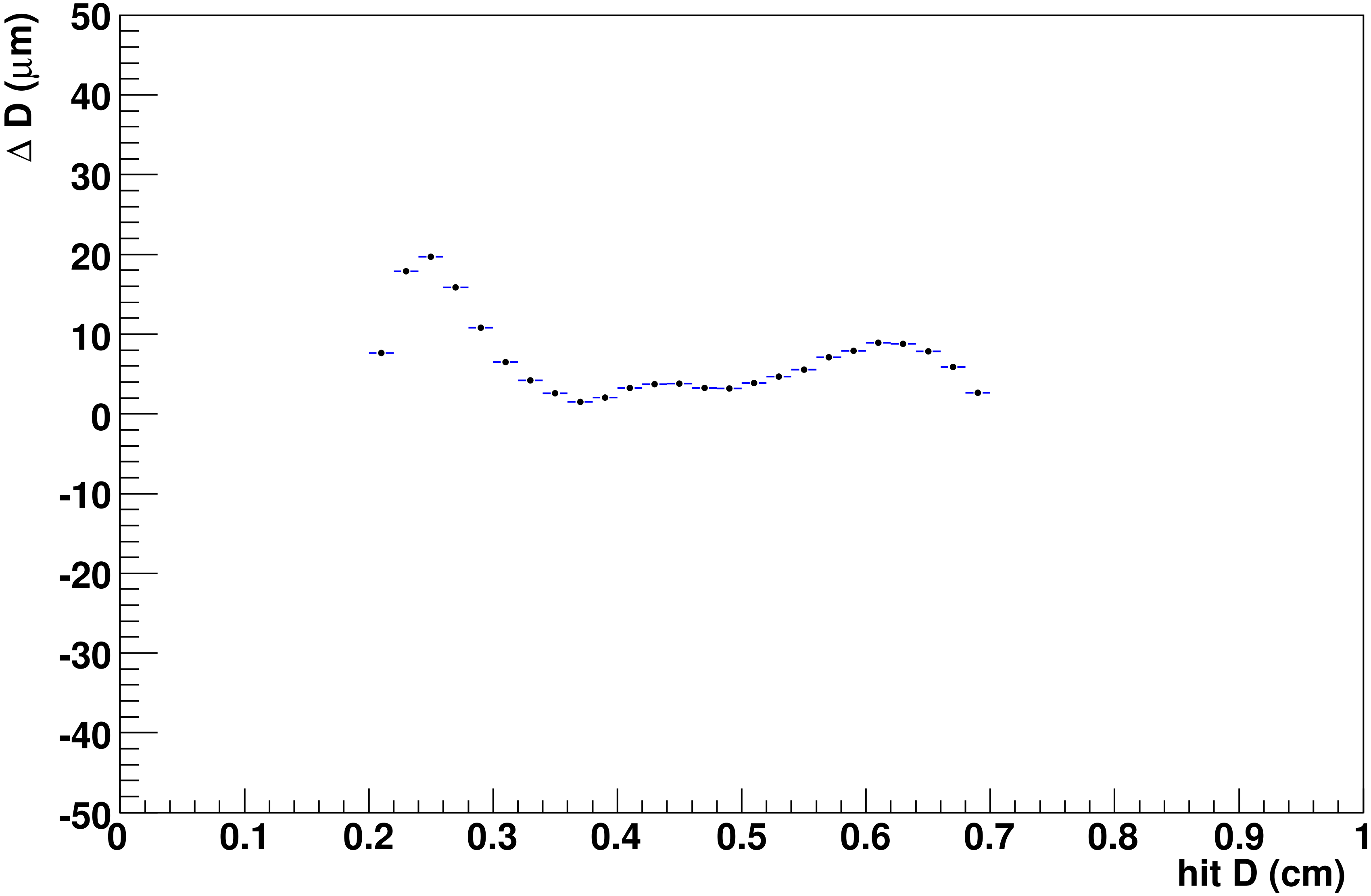
Δ D (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)



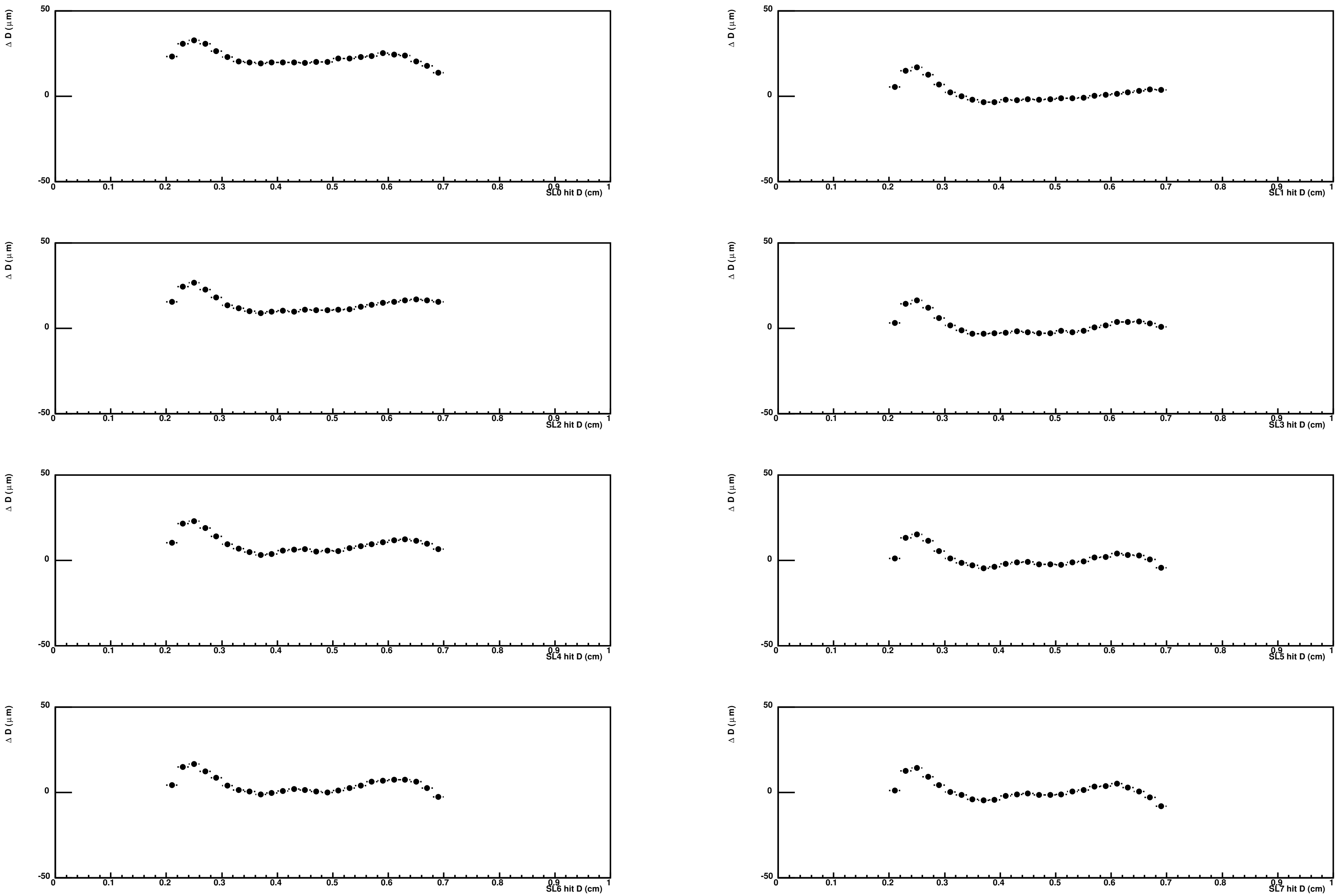
Δ Y (μm)
4
3
2
1
0
-1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

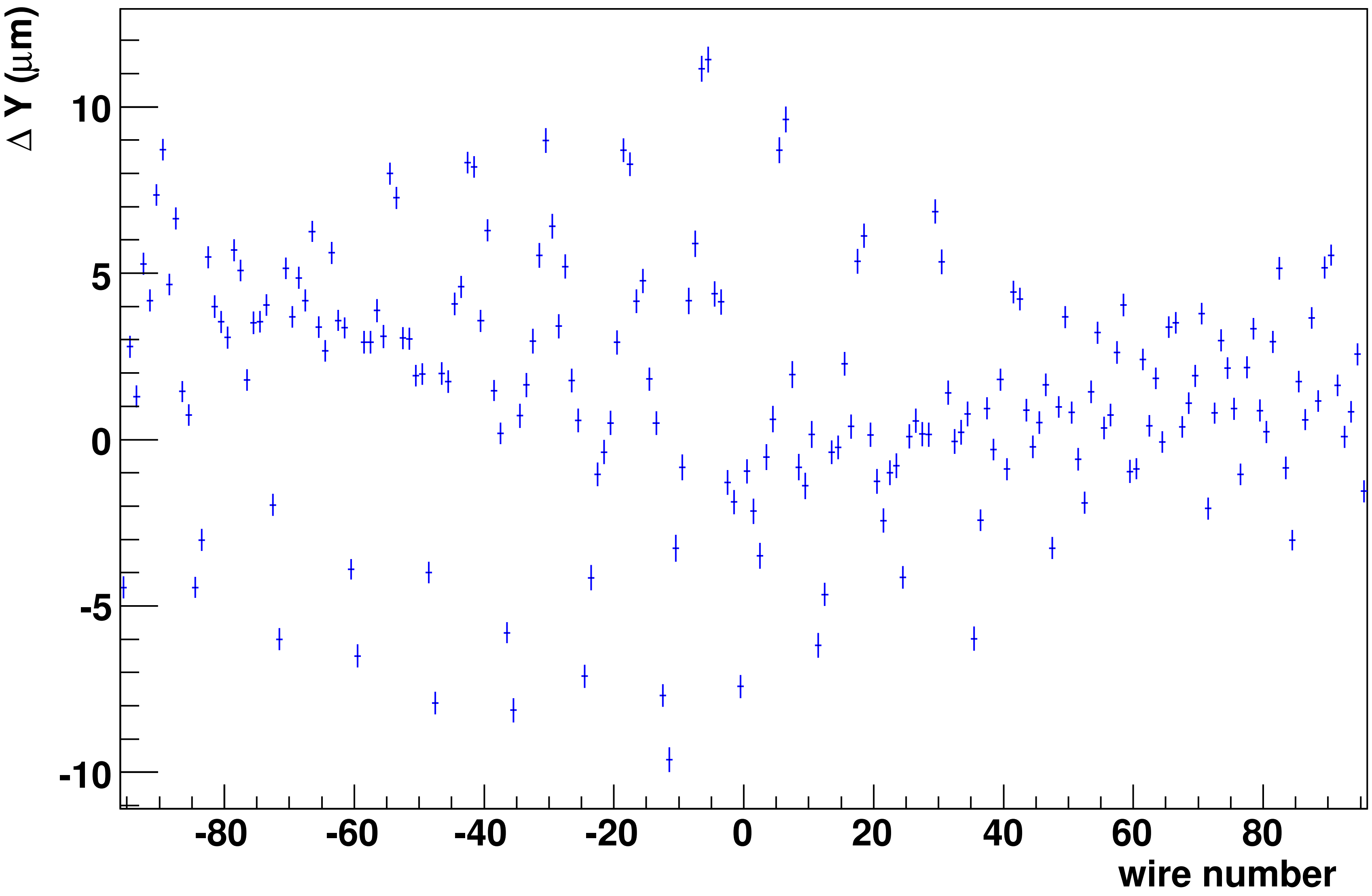


#Hit T (ns)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

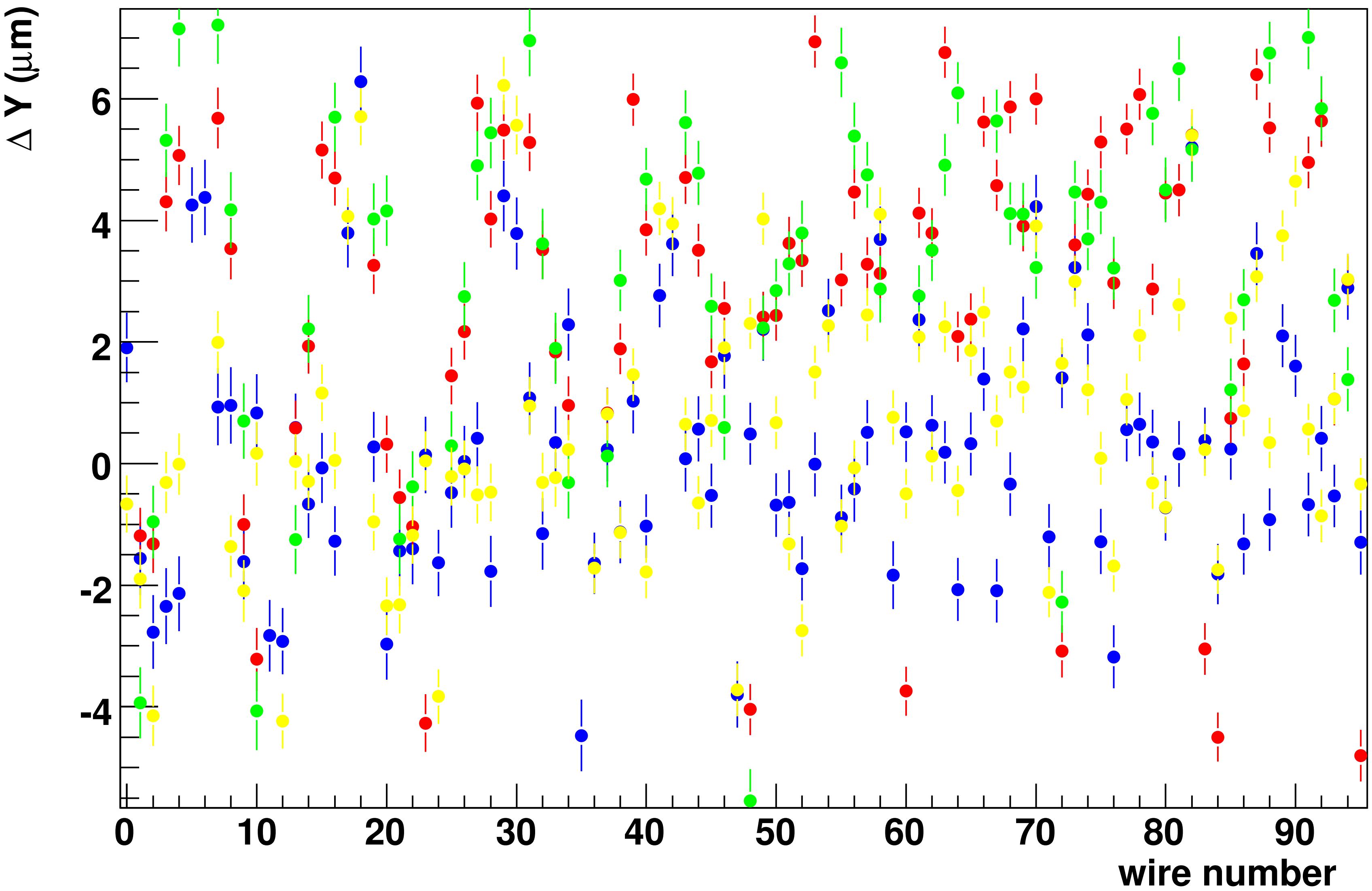


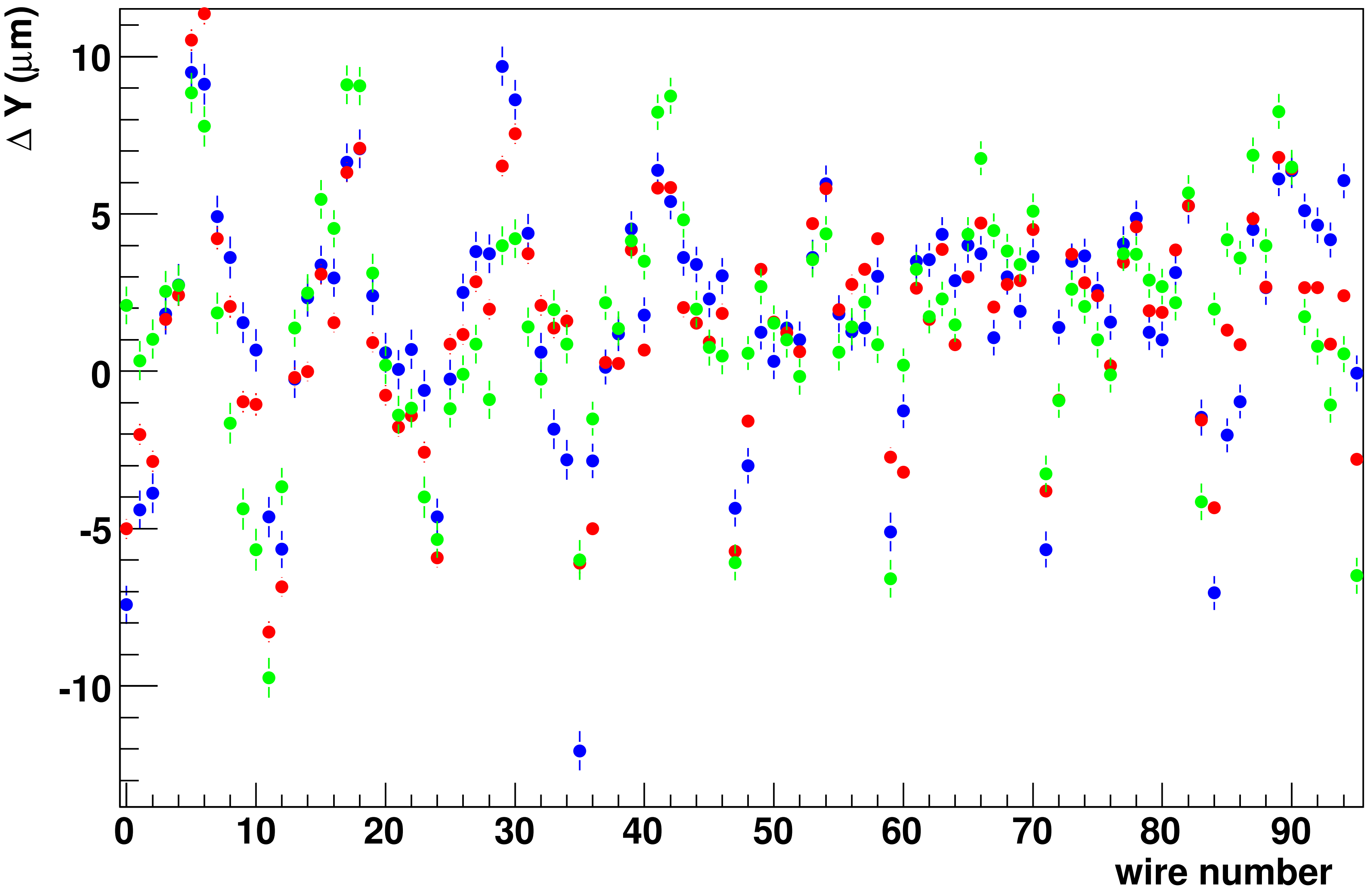
Δ D (μm)
50
40
30
20
10
0
-10
-20
-30
-40
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)


Δ D (μm)
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)

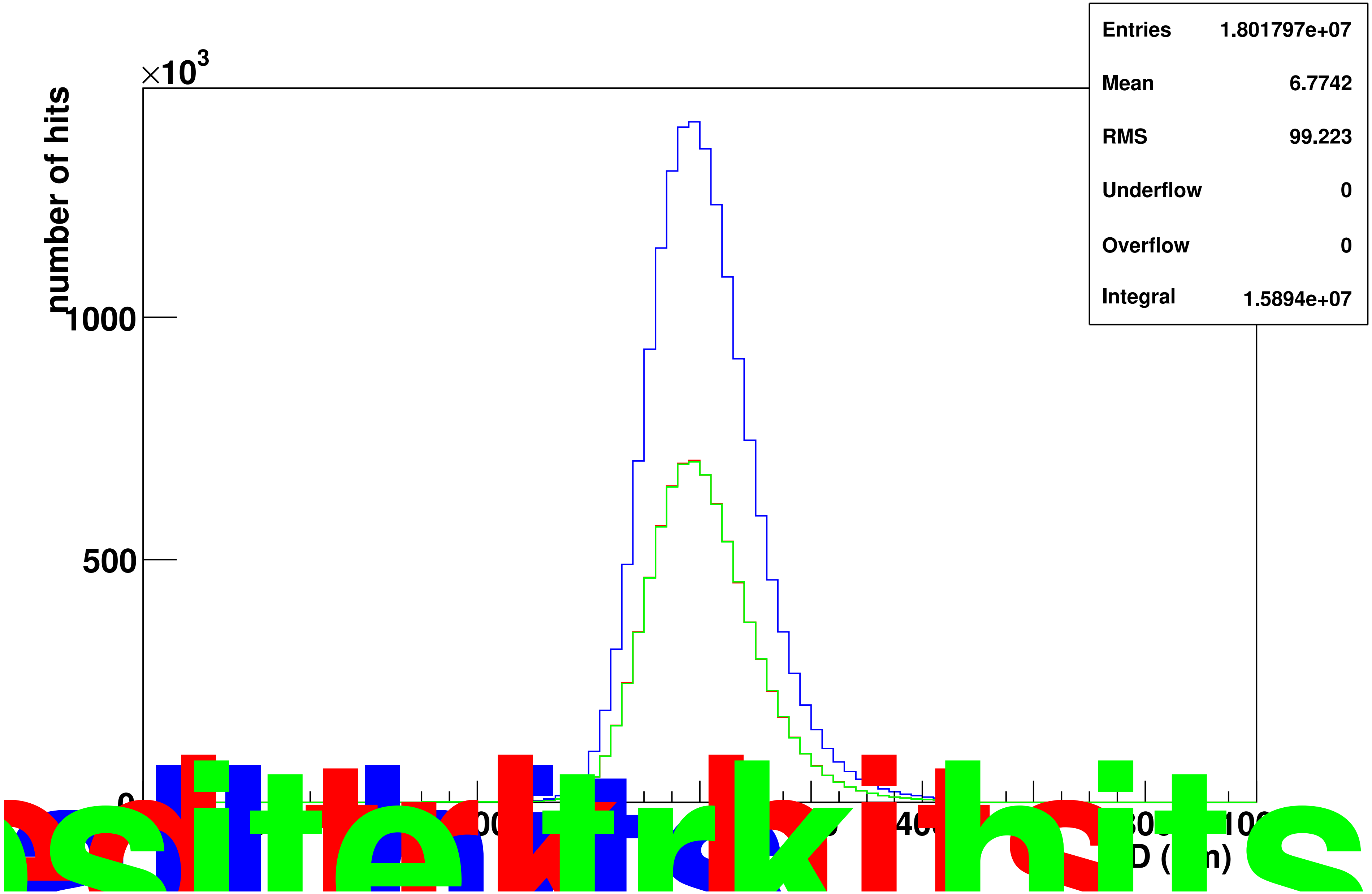


Δ Y (μm)
10
5
0
-5
-10
-80
-60
-40
-20
0
20
40
60
80
wire number

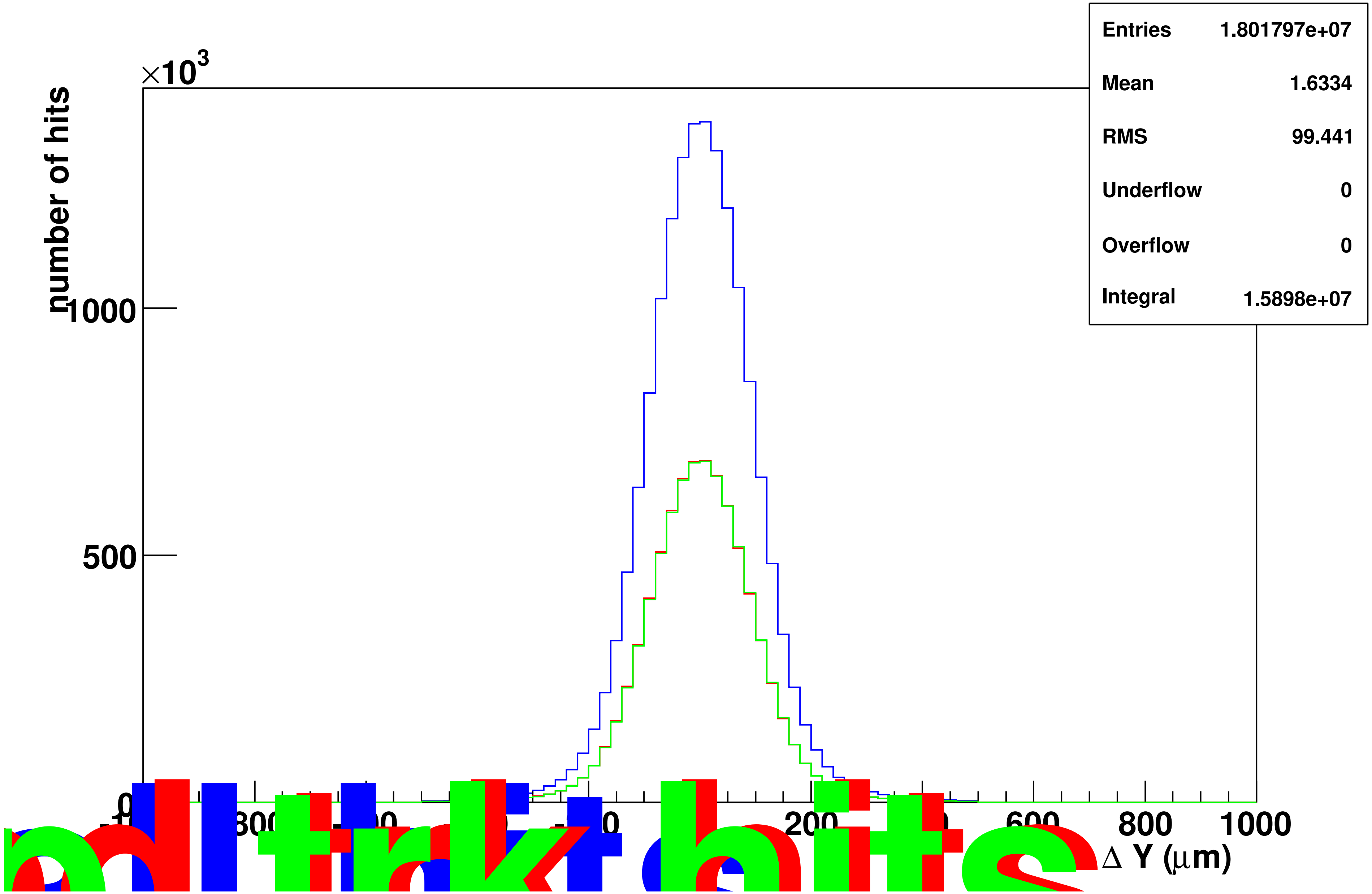

Δ Y (μm)
-4
-2
0
2
4
6
0
10
20
30
40
50
60
70
80
90
wire number



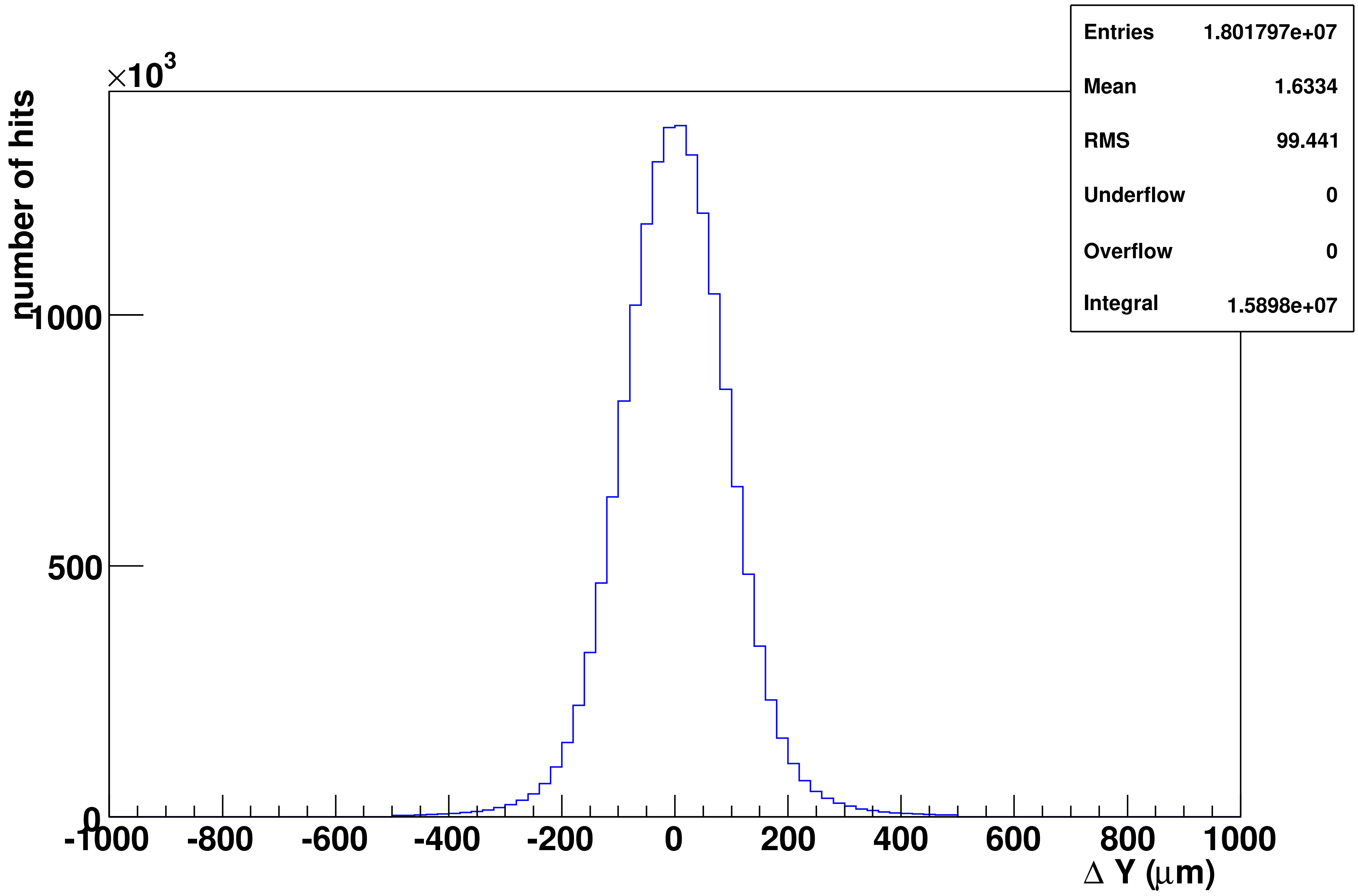
Δ Y (μm)
10
5
0
-5
-10
0
10
20
30
40
50
60
70
80
90
wire number



Entries 1.801797e+07
Mean 6.7742
RMS 99.223
Underflow 0
Overflow 0
Integral 1.5894e+07
×10^3
number of hits
1000
500
0



Entries 1.801797e+07
Mean 1.6334
RMS 99.441
Underflow 0
Overflow 0
Integral 1.5898e+07
×10^3
number of hits
1000
500
0
200
600
800
1000
Δ Y (μm)



Entries 1.801797e+07
Mean 1.6334
RMS 99.441
Underflow 0
Overflow 0
Integral 1.5898e+07
$\times 10^3$
number of hits
1000
500
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000
Δ Y (μm)