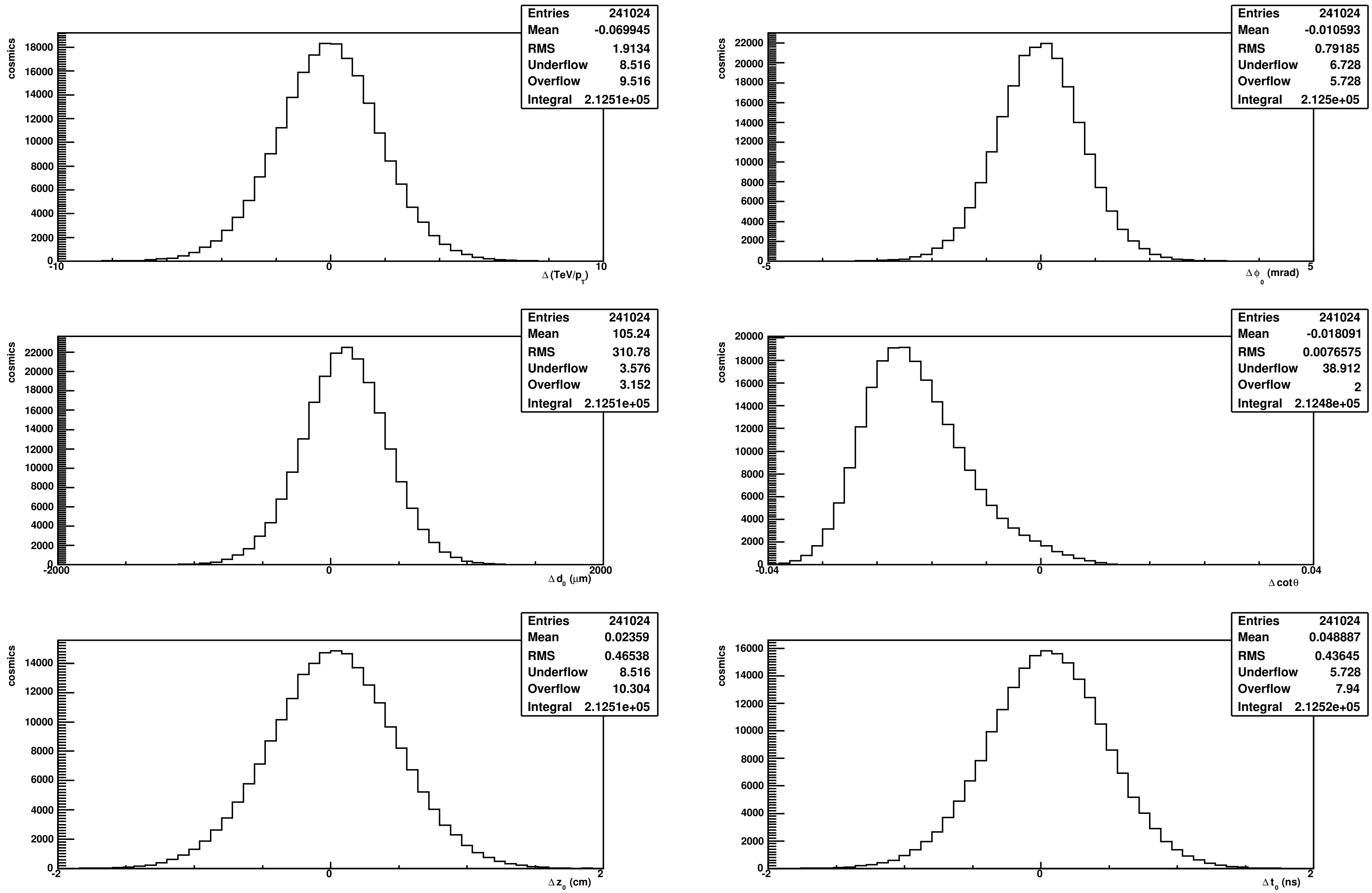
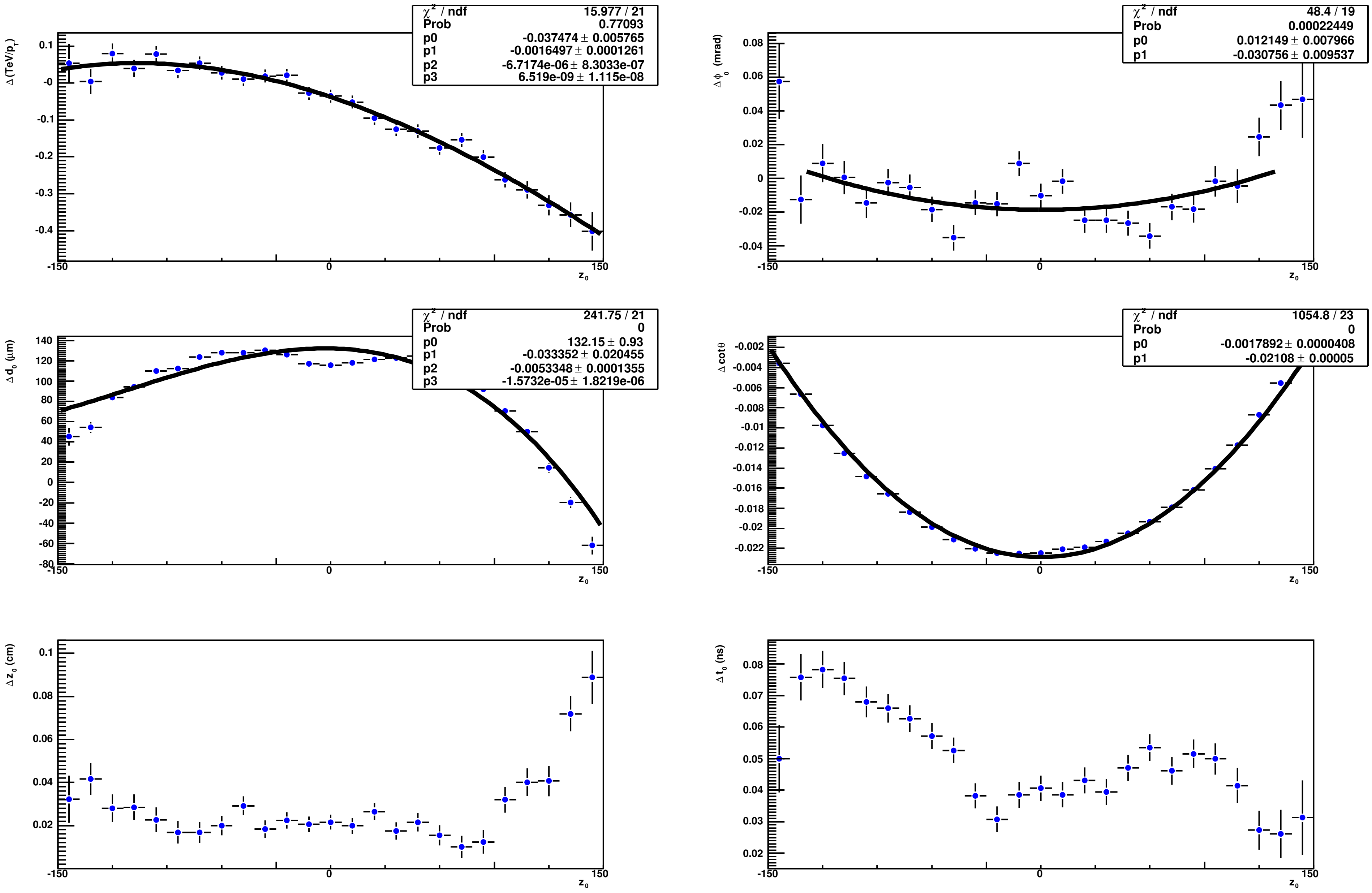
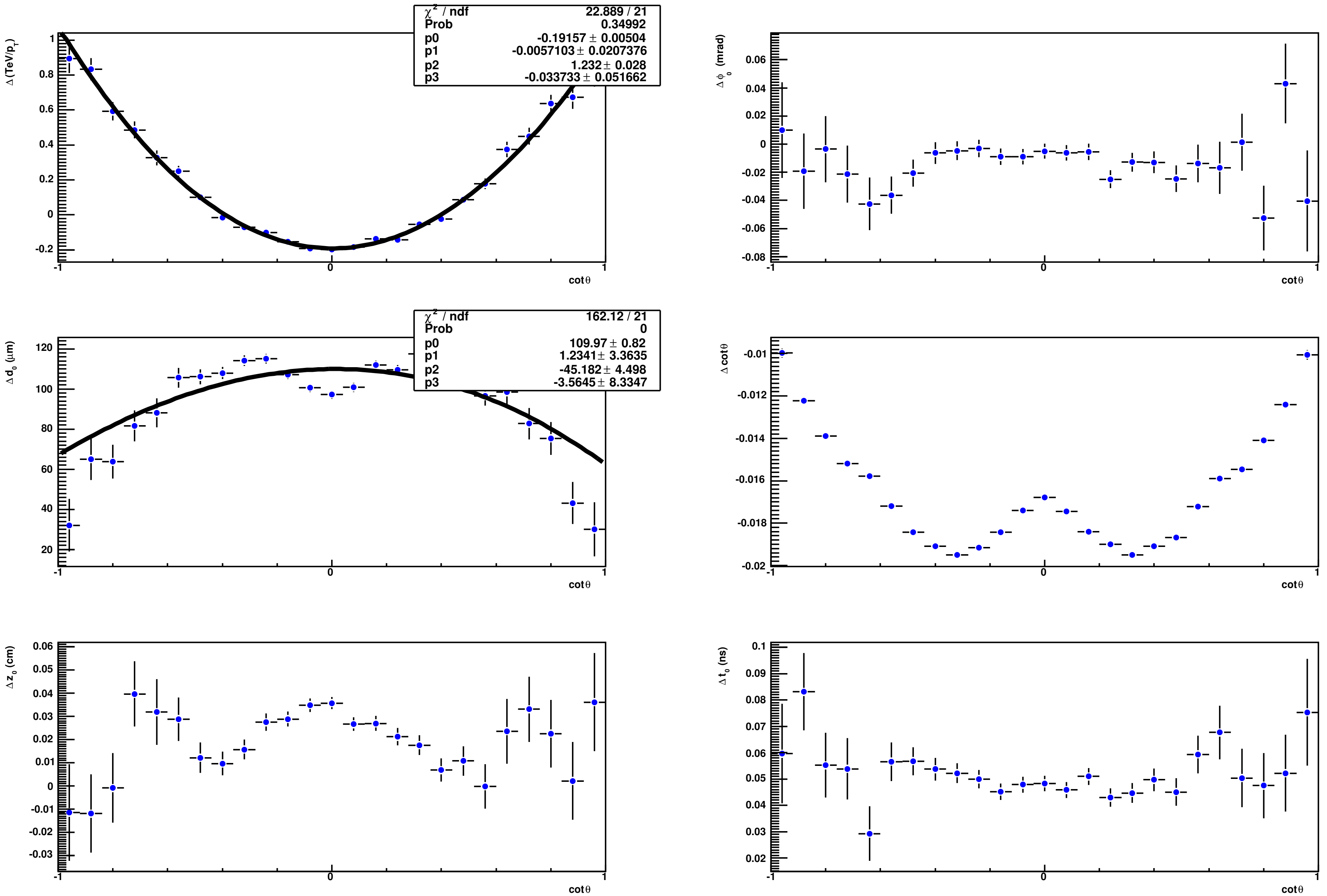


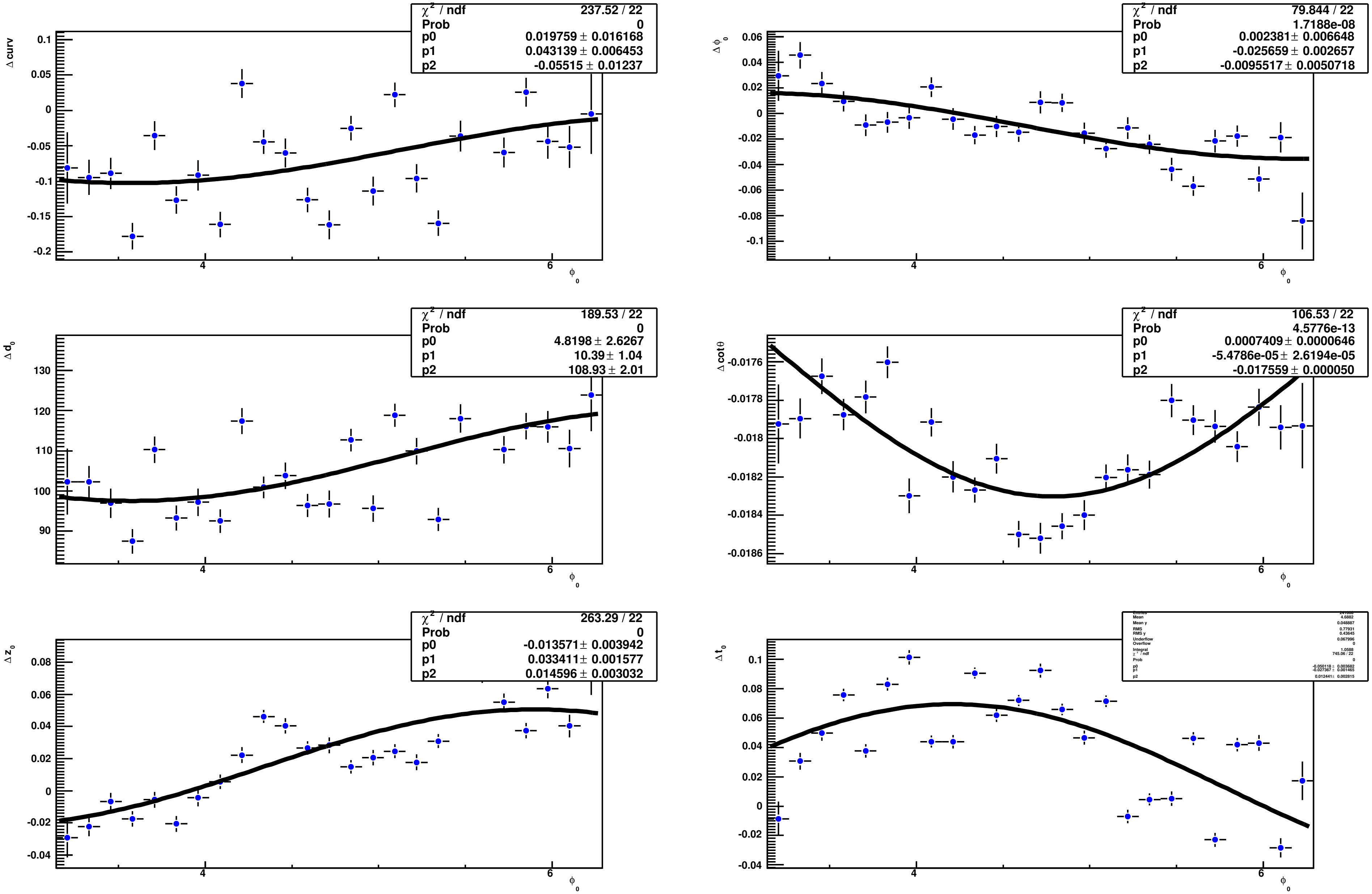
Entries 241024
Mean -0.069945
RMS 1.9134
Underflow 8.516
Overflow 9.516
Integral 2.1251e+05
cosmics
Δ(TeV/p_T)
Entries 241024
Mean -0.010593
RMS 0.79185
Underflow 6.728
Overflow 5.728
Integral 2.125e+05
cosmics
Δφ_0 (mrad)
Entries 241024
Mean 105.24
RMS 310.78
Underflow 3.576
Overflow 3.152
Integral 2.1251e+05
cosmics
Δd_0 (μm)
Entries 241024
Mean -0.018091
RMS 0.0076575
Underflow 38.912
Overflow 2
Integral 2.1248e+05
cosmics
Δcotθ
Entries 241024
Mean 0.02359
RMS 0.46538
Underflow 8.516
Overflow 10.304
Integral 2.1251e+05
cosmics
Δz_0 (cm)
Entries 241024
Mean 0.048887
RMS 0.43645
Underflow 5.728
Overflow 7.94
Integral 2.1252e+05
cosmics
Δt_0 (ns)

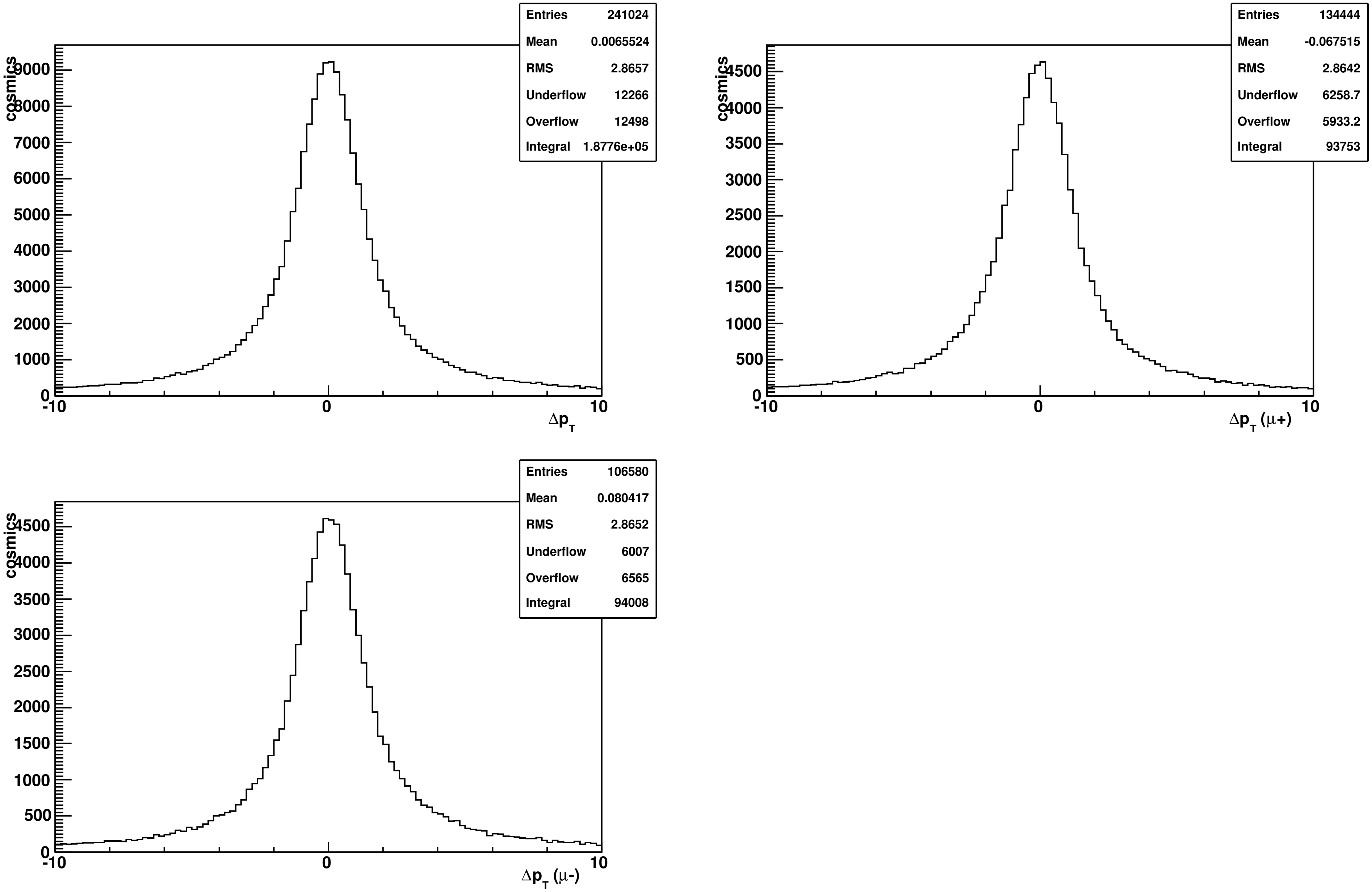


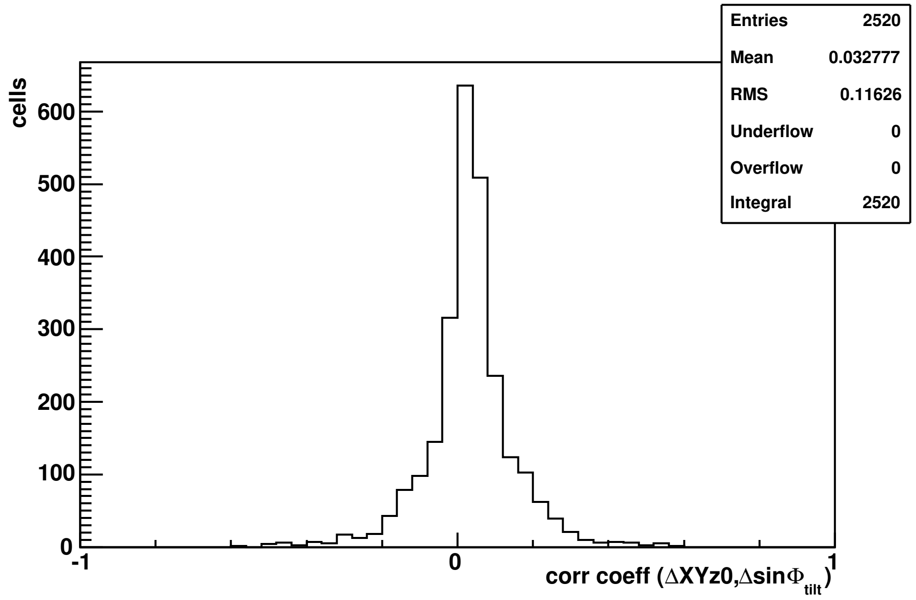
χ2 / ndf 15.977 / 21
Prob 0.77093
p0 -0.037474 ± 0.005765
p1 -0.0016497 ± 0.0001261
p2 -6.7174e-06 ± 8.3033e-07
p3 6.519e-09 ± 1.115e-08
Δ(TeV/pT)
z0
χ2 / ndf 48.4 / 19
Prob 0.00022449
p0 0.012149 ± 0.007966
p1 -0.030756 ± 0.009537
Δφ0 (mrad)
z0
χ2 / ndf 241.75 / 21
Prob 0
p0 132.15 ± 0.93
p1 -0.033352 ± 0.020455
p2 -0.0053348 ± 0.0001355
p3 -1.5732e-05 ± 1.8219e-06
Δd0 (μm)
z0
χ2 / ndf 1054.8 / 23
Prob 0
p0 -0.0017892 ± 0.0000408
p1 -0.02108 ± 0.00005
Δcotθ
z0
Δz0 (cm)
z0
Δt0 (ns)
z0



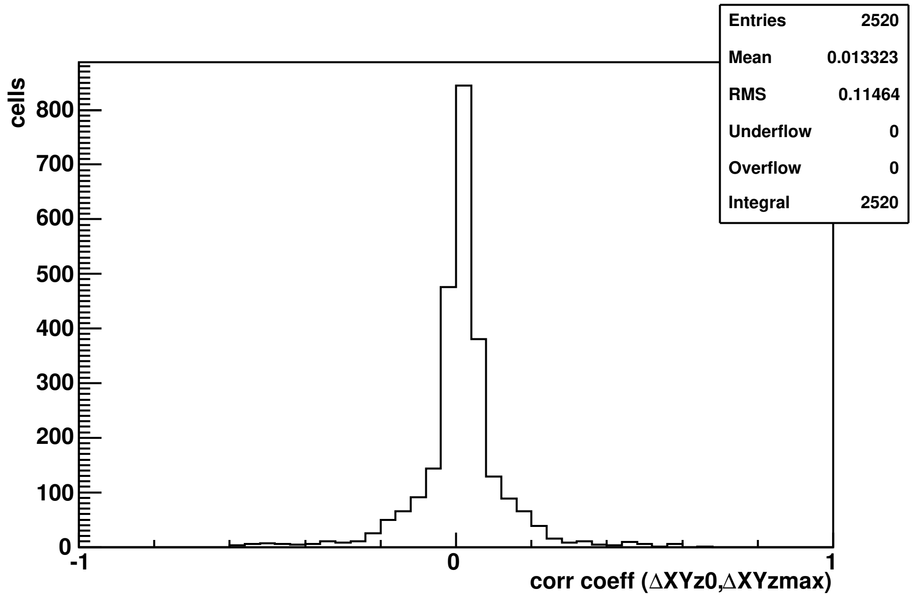
χ² / ndf 22.889 / 21
Prob 0.34992
p0 -0.19157 ± 0.00504
p1 -0.0057103 ± 0.0207376
p2 1.232 ± 0.028
p3 -0.033733 ± 0.051662
Δ(TeV/p_T)
cotθ
Δφ_0 (mrad)
cotθ
χ² / ndf 162.12 / 21
Prob 0
p0 109.97 ± 0.82
p1 1.2341 ± 3.3635
p2 -45.182 ± 4.498
p3 -3.5645 ± 8.3347
Δd_0 (μm)
cotθ
Δcotθ
cotθ
Δz_0 (cm)
cotθ
Δt_0 (ns)
cotθ


χ² / ndf 237.52 / 22
Prob 0
p0 0.019759 ± 0.016168
p1 0.043139 ± 0.006453
p2 -0.05515 ± 0.01237
Δ curv
φ0
χ² / ndf 79.844 / 22
Prob 1.7188e-08
p0 0.002381 ± 0.006648
p1 -0.025659 ± 0.002657
p2 -0.0095517 ± 0.0050718
Δ φ0
φ0
χ² / ndf 189.53 / 22
Prob 0
p0 4.8198 ± 2.6267
p1 10.39 ± 1.04
p2 108.93 ± 2.01
Δ d0
φ0
χ² / ndf 106.53 / 22
Prob 4.5776e-13
p0 0.0007409 ± 0.0000646
p1 -5.4786e-05 ± 2.6194e-05
p2 -0.017559 ± 0.000050
Δ cotθ
φ0
χ² / ndf 263.29 / 22
Prob 0
p0 -0.013571 ± 0.003942
p1 0.033411 ± 0.001577
p2 0.014596 ± 0.003032
Δ z0
φ0
Δ t0
φ0

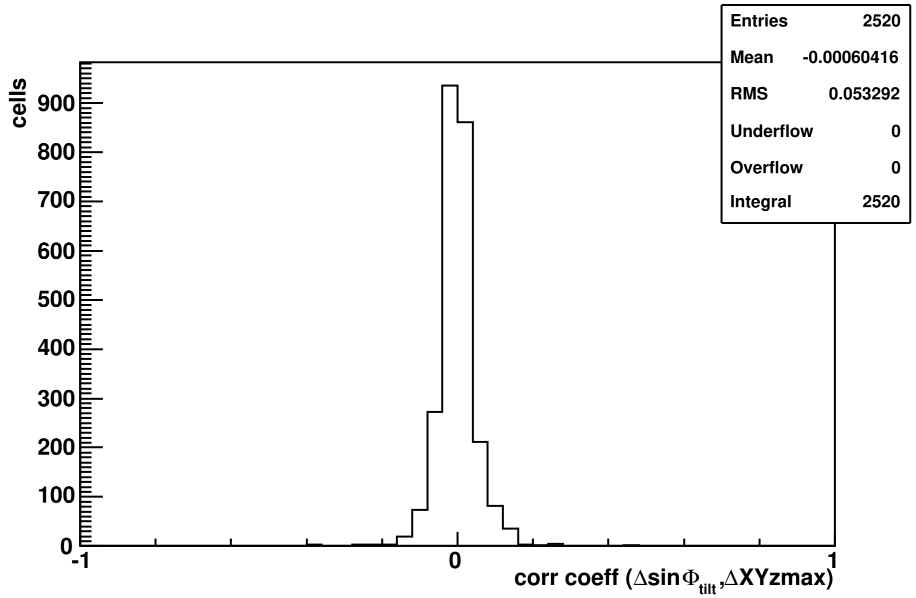

Entries 241024
Mean 0.0065524
RMS 2.8657
Underflow 12266
Overflow 12498
Integral 1.8776e+05
cosmics
Δp_T
Entries 134444
Mean -0.067515
RMS 2.8642
Underflow 6258.7
Overflow 5933.2
Integral 93753
cosmics
Δp_T (μ+)
Entries 106580
Mean 0.080417
RMS 2.8652
Underflow 6007
Overflow 6565
Integral 94008
cosmics
Δp_T (μ-)



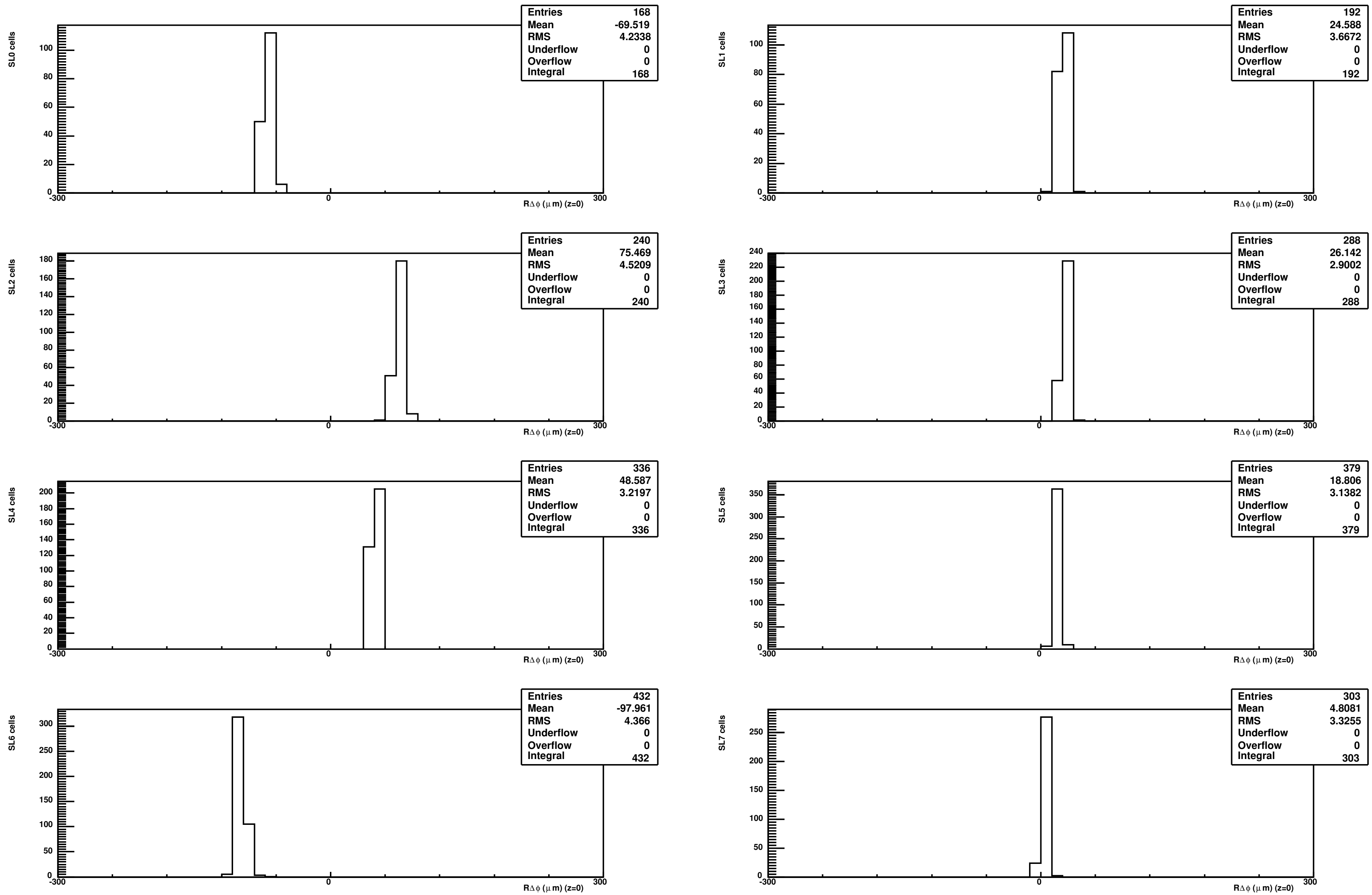
Entries 2520
Mean 0.032777
RMS 0.11626
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔsinΦ$_{tilt}$)

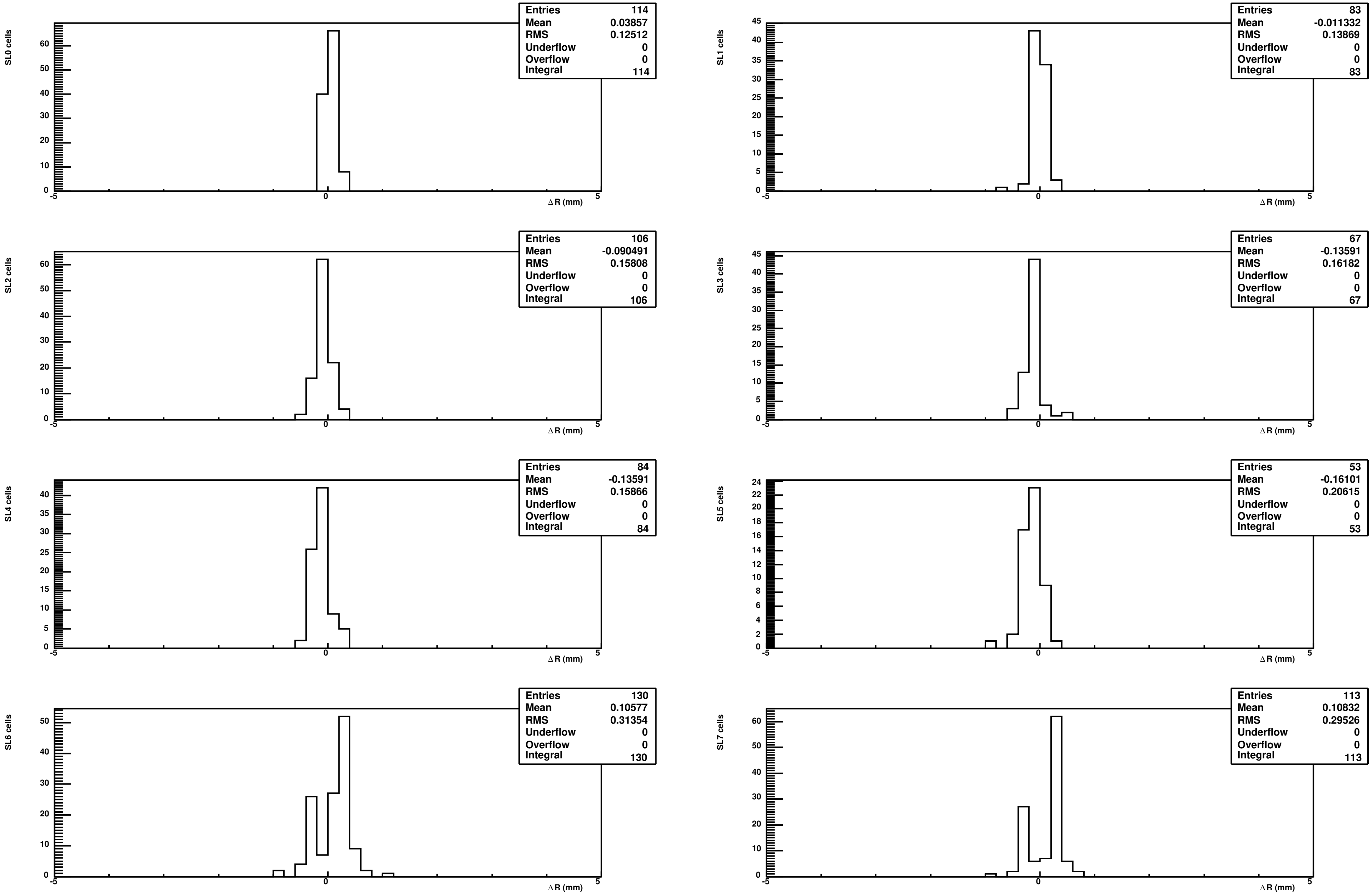


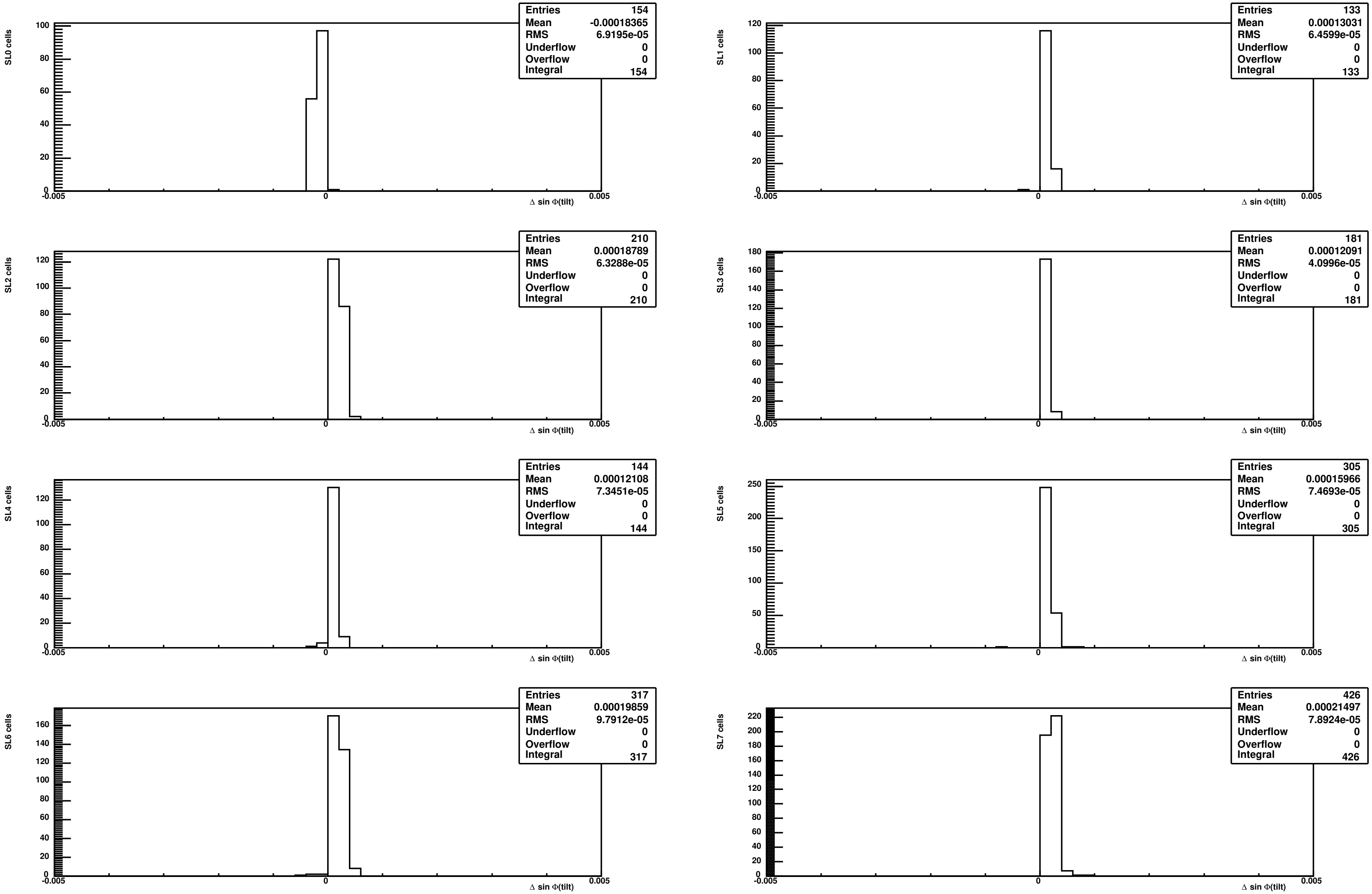
Entries 2520
Mean 0.013323
RMS 0.11464
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔXYzmax)

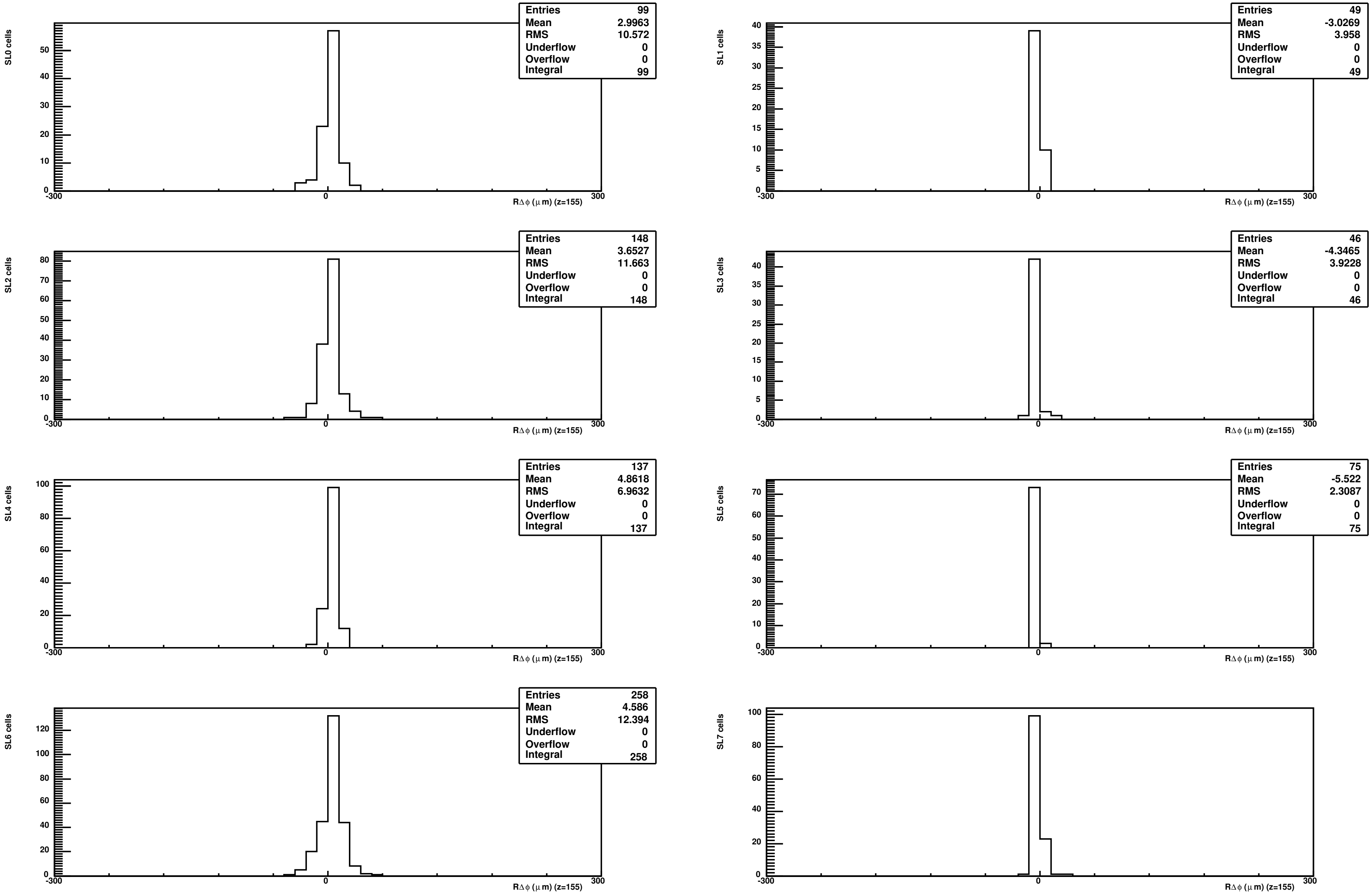


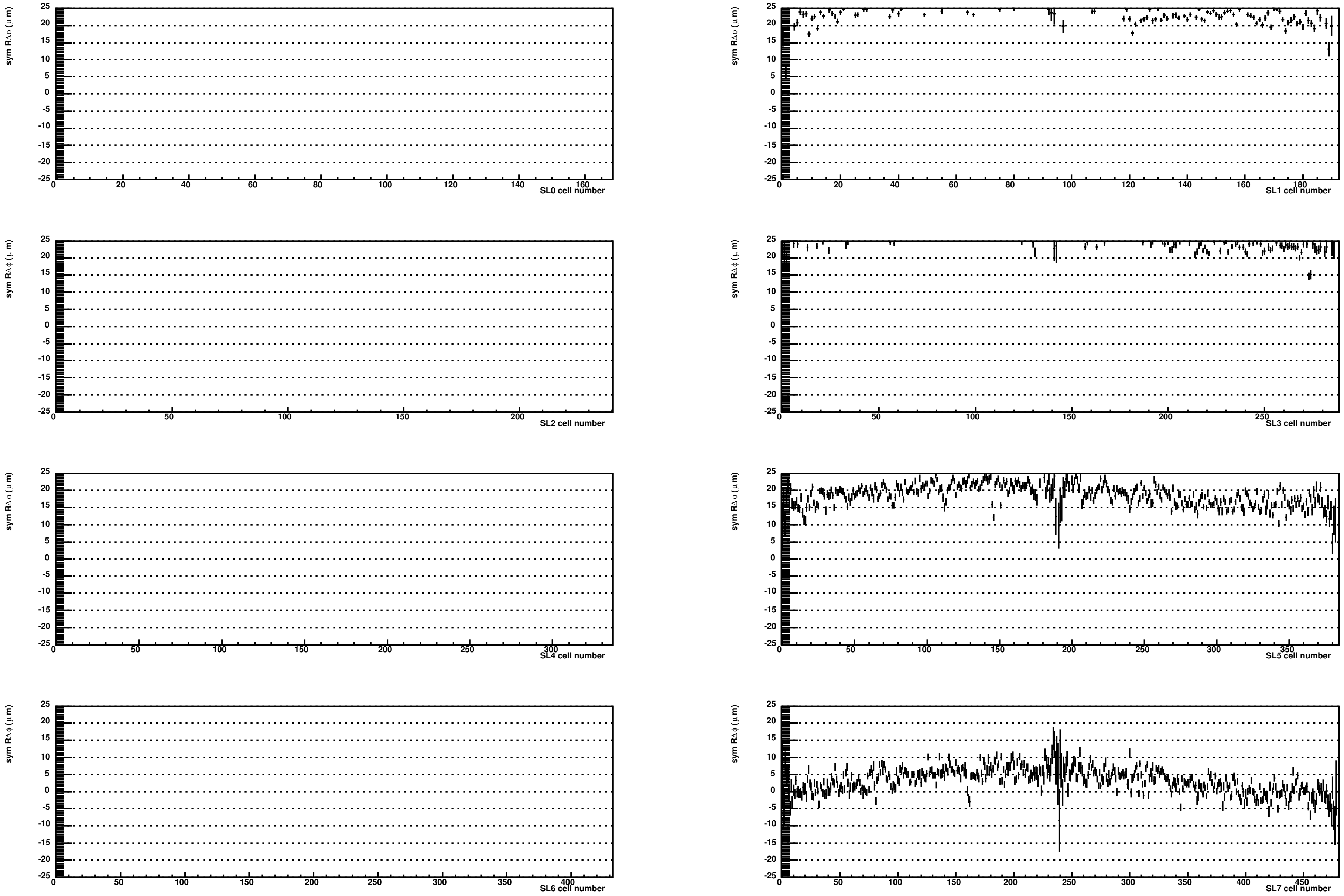
Entries 2520
Mean -0.00060416
RMS 0.053292
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔsinΦ$_{tilt}$,ΔXYzmax)


SL0 cells
Entries 168
Mean -69.519
RMS 4.2338
Underflow 0
Overflow 0
Integral 168
RΔφ (μm) (z=0)
SL1 cells
Entries 192
Mean 24.588
RMS 3.6672
Underflow 0
Overflow 0
Integral 192
RΔφ (μm) (z=0)
SL2 cells
Entries 240
Mean 75.469
RMS 4.5209
Underflow 0
Overflow 0
Integral 240
RΔφ (μm) (z=0)
SL3 cells
Entries 288
Mean 26.142
RMS 2.9002
Underflow 0
Overflow 0
Integral 288
RΔφ (μm) (z=0)
SL4 cells
Entries 336
Mean 48.587
RMS 3.2197
Underflow 0
Overflow 0
Integral 336
RΔφ (μm) (z=0)
SL5 cells
Entries 379
Mean 18.806
RMS 3.1382
Underflow 0
Overflow 0
Integral 379
RΔφ (μm) (z=0)
SL6 cells
Entries 432
Mean -97.961
RMS 4.366
Underflow 0
Overflow 0
Integral 432
RΔφ (μm) (z=0)
SL7 cells
Entries 303
Mean 4.8081
RMS 3.3255
Underflow 0
Overflow 0
Integral 303
RΔφ (μm) (z=0)

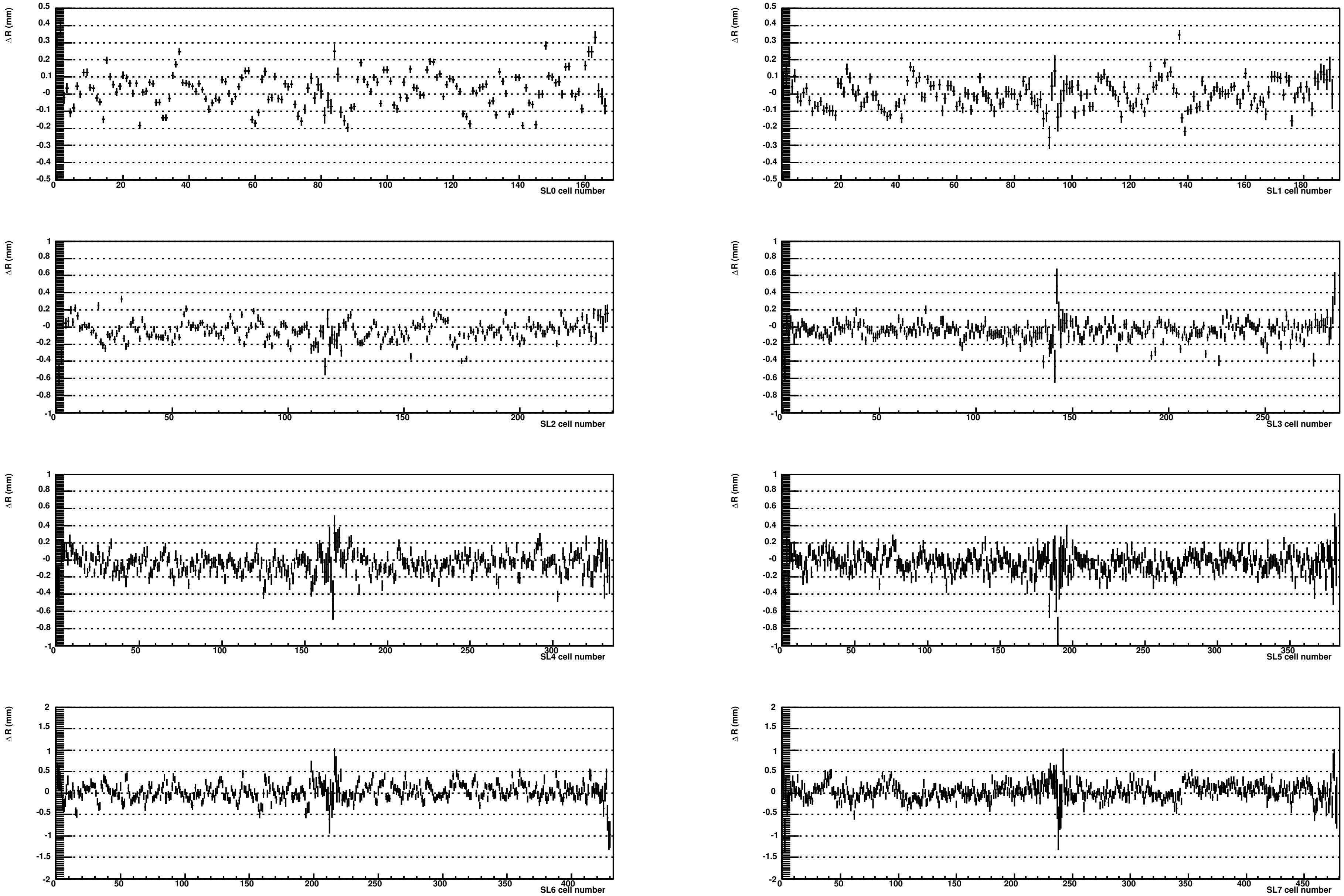

SL0 cells
Entries 114
Mean 0.03857
RMS 0.12512
Underflow 0
Overflow 0
Integral 114
ΔR (mm)
SL1 cells
Entries 83
Mean -0.011332
RMS 0.13869
Underflow 0
Overflow 0
Integral 83
ΔR (mm)
SL2 cells
Entries 106
Mean -0.090491
RMS 0.15808
Underflow 0
Overflow 0
Integral 106
ΔR (mm)
SL3 cells
Entries 67
Mean -0.13591
RMS 0.16182
Underflow 0
Overflow 0
Integral 67
ΔR (mm)
SL4 cells
Entries 84
Mean -0.13591
RMS 0.15866
Underflow 0
Overflow 0
Integral 84
ΔR (mm)
SL5 cells
Entries 53
Mean -0.16101
RMS 0.20615
Underflow 0
Overflow 0
Integral 53
ΔR (mm)
SL6 cells
Entries 130
Mean 0.10577
RMS 0.31354
Underflow 0
Overflow 0
Integral 130
ΔR (mm)
SL7 cells
Entries 113
Mean 0.10832
RMS 0.29526
Underflow 0
Overflow 0
Integral 113
ΔR (mm)


SL0 cells
Entries 154
Mean -0.00018365
RMS 6.9195e-05
Underflow 0
Overflow 0
Integral 154
Δ sin Φ(tilt)
SL1 cells
Entries 133
Mean 0.00013031
RMS 6.4599e-05
Underflow 0
Overflow 0
Integral 133
Δ sin Φ(tilt)
SL2 cells
Entries 210
Mean 0.00018789
RMS 6.3288e-05
Underflow 0
Overflow 0
Integral 210
Δ sin Φ(tilt)
SL3 cells
Entries 181
Mean 0.00012091
RMS 4.0996e-05
Underflow 0
Overflow 0
Integral 181
Δ sin Φ(tilt)
SL4 cells
Entries 144
Mean 0.00012108
RMS 7.3451e-05
Underflow 0
Overflow 0
Integral 144
Δ sin Φ(tilt)
SL5 cells
Entries 305
Mean 0.00015966
RMS 7.4693e-05
Underflow 0
Overflow 0
Integral 305
Δ sin Φ(tilt)
SL6 cells
Entries 317
Mean 0.00019859
RMS 9.7912e-05
Underflow 0
Overflow 0
Integral 317
Δ sin Φ(tilt)
SL7 cells
Entries 426
Mean 0.00021497
RMS 7.8924e-05
Underflow 0
Overflow 0
Integral 426
Δ sin Φ(tilt)

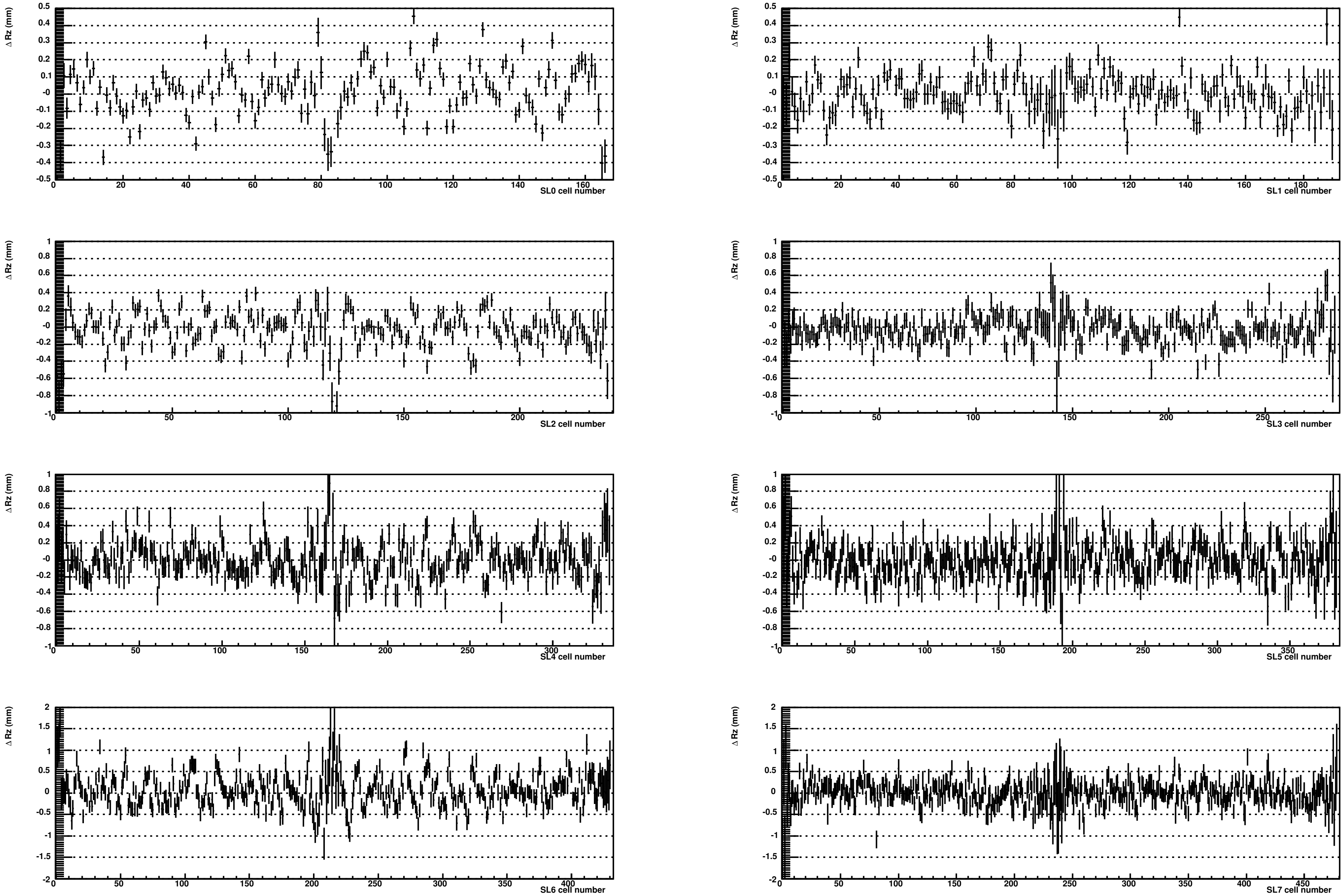

SL0 cells
Entries 99
Mean 2.9963
RMS 10.572
Underflow 0
Overflow 0
Integral 99
SL1 cells
Entries 49
Mean -3.0269
RMS 3.958
Underflow 0
Overflow 0
Integral 49
SL2 cells
Entries 148
Mean 3.6527
RMS 11.663
Underflow 0
Overflow 0
Integral 148
SL3 cells
Entries 46
Mean -4.3465
RMS 3.9228
Underflow 0
Overflow 0
Integral 46
SL4 cells
Entries 137
Mean 4.8618
RMS 6.9632
Underflow 0
Overflow 0
Integral 137
SL5 cells
Entries 75
Mean -5.522
RMS 2.3087
Underflow 0
Overflow 0
Integral 75
SL6 cells
Entries 258
Mean 4.586
RMS 12.394
Underflow 0
Overflow 0
Integral 258
SL7 cells
-300
0
300
RΔφ (μm) (z=155)

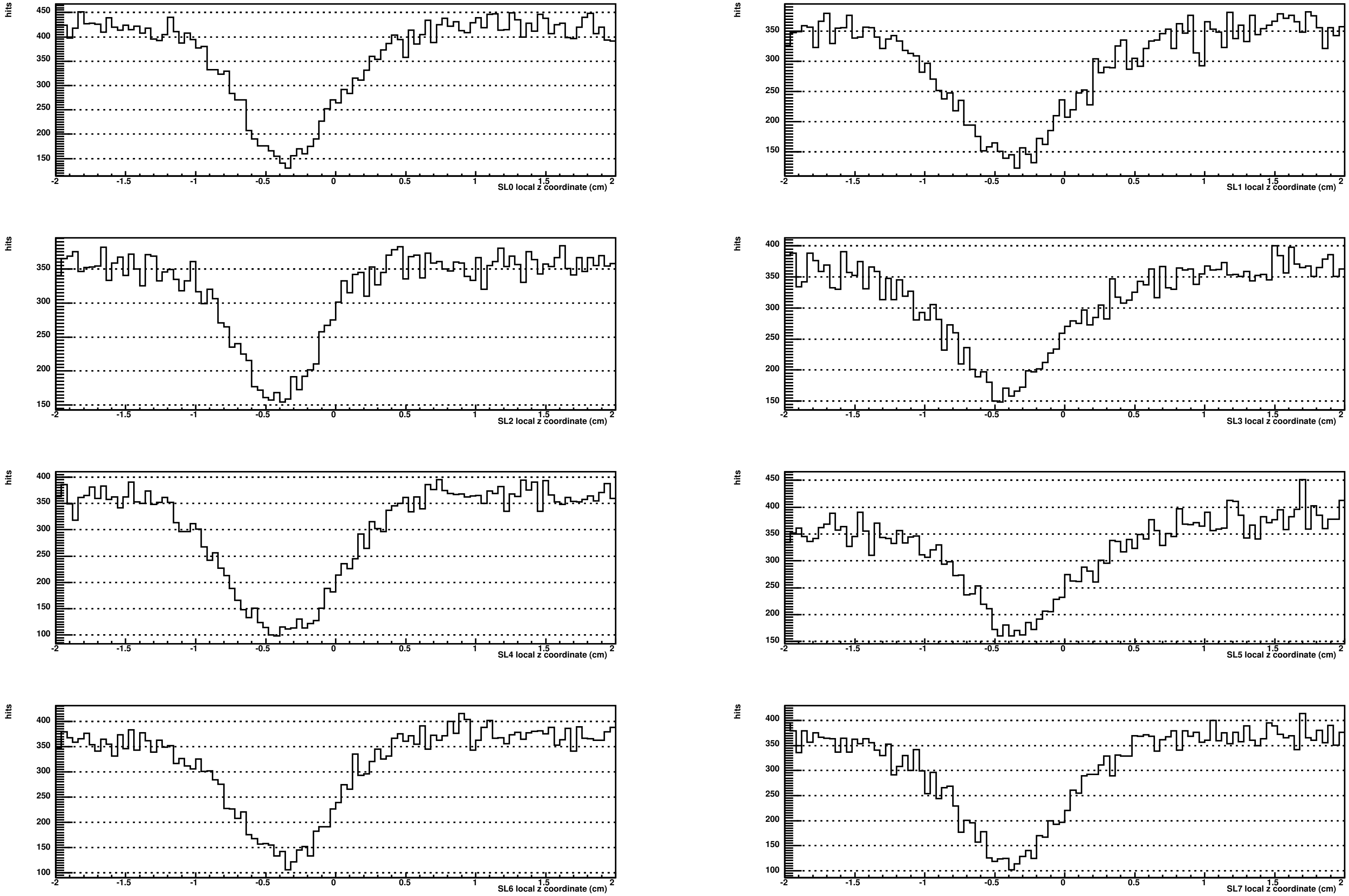


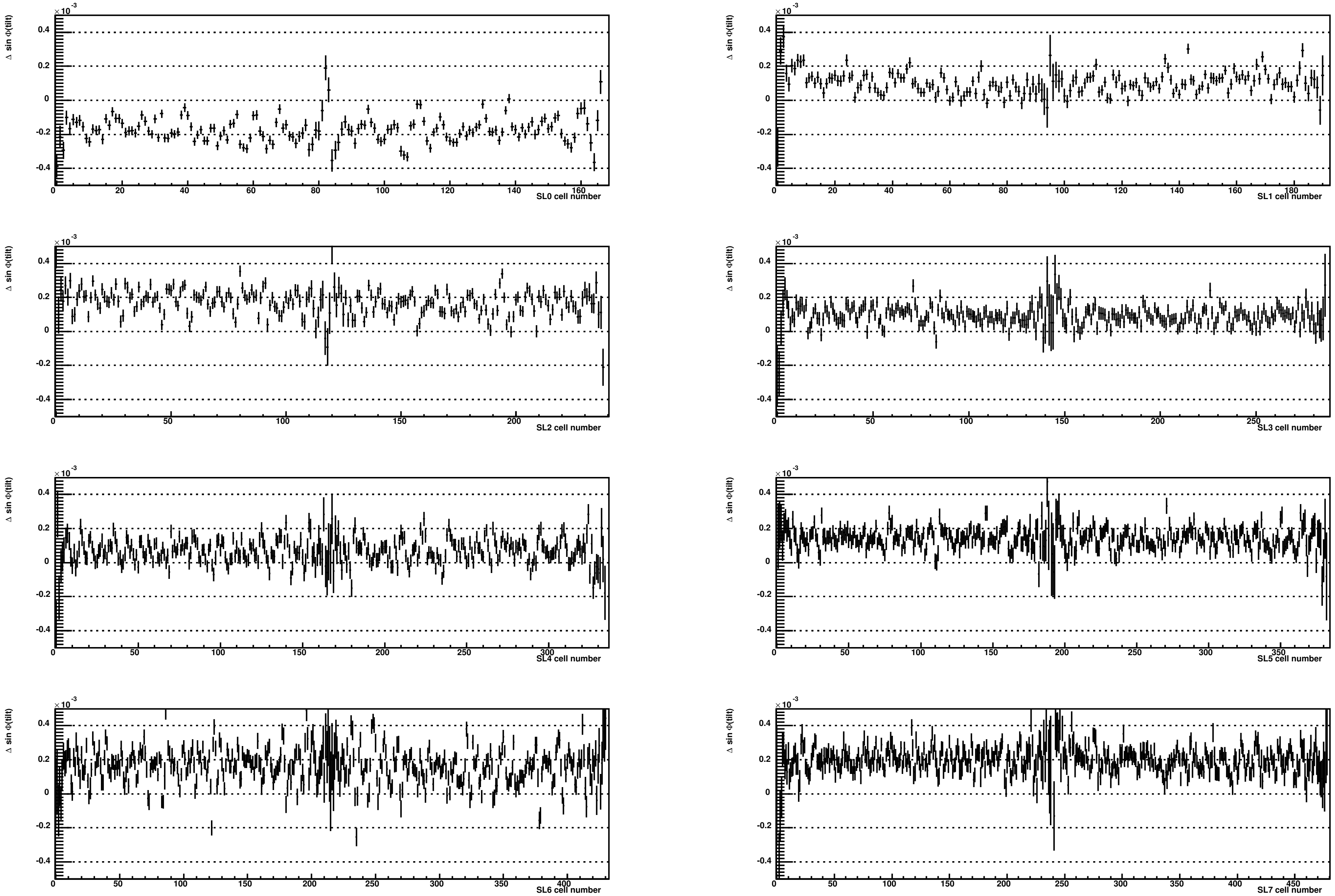
sym RΔφ (μm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number



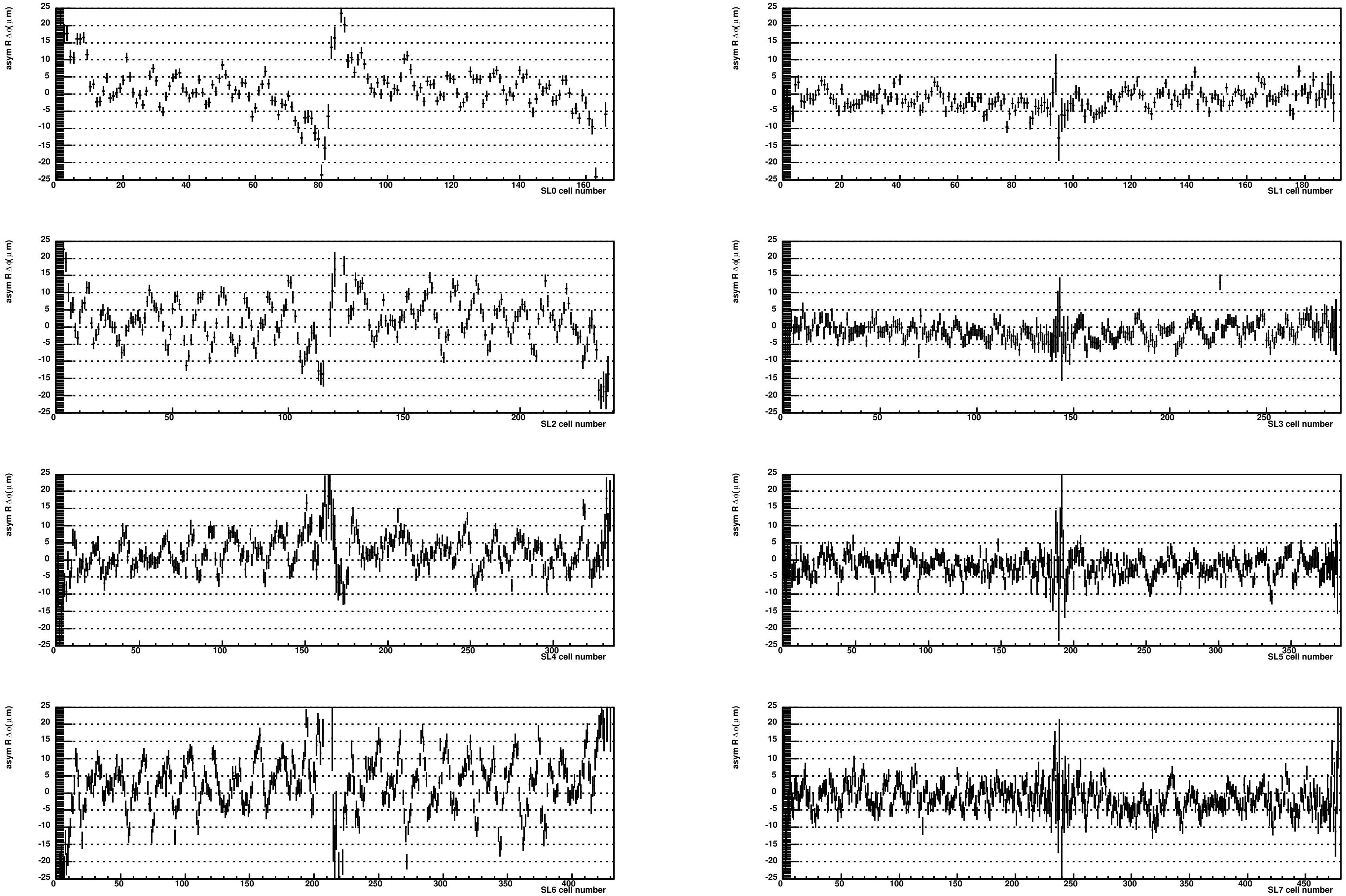
ΔR (mm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

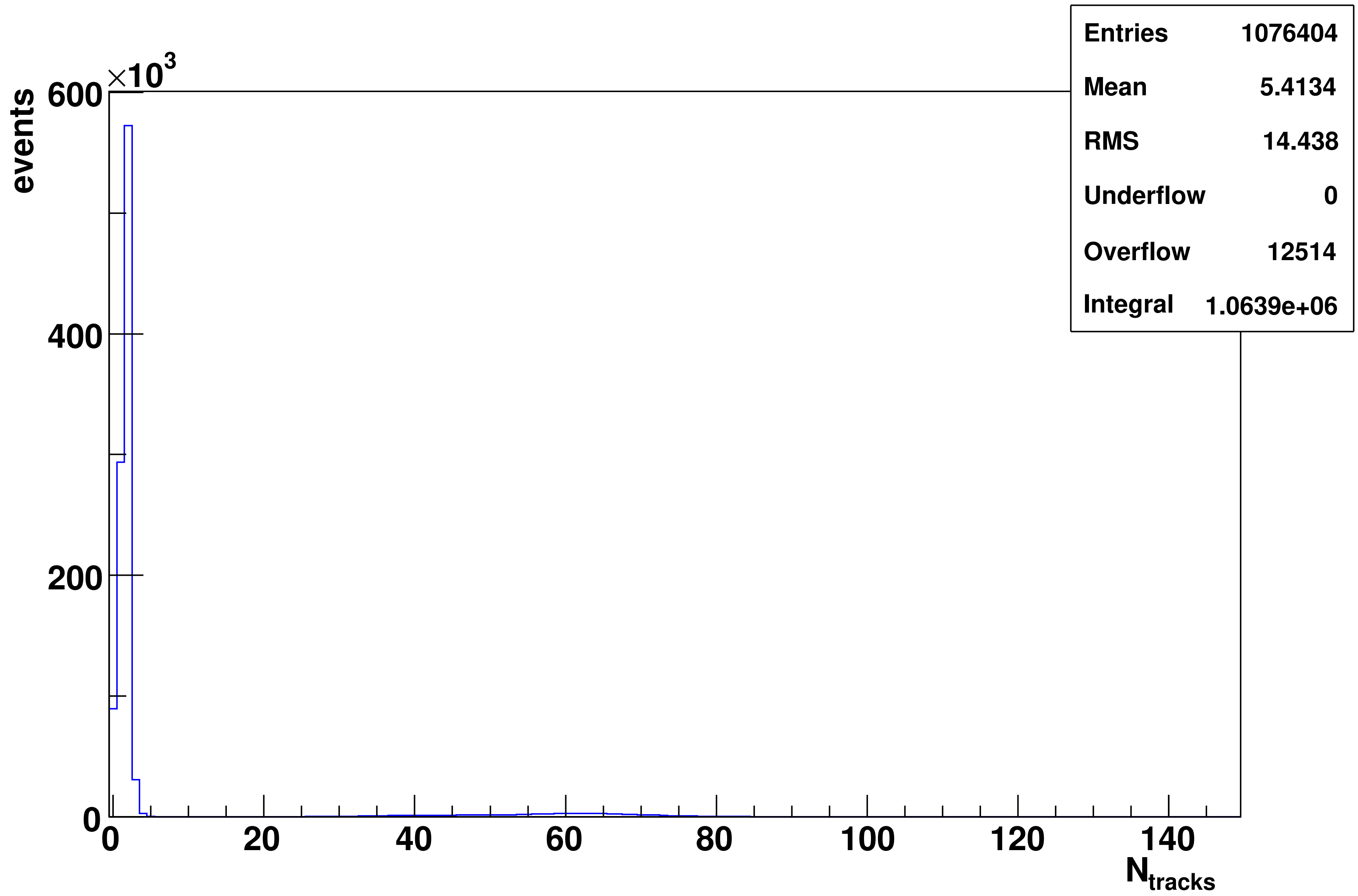

Δ Rz (mm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number


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

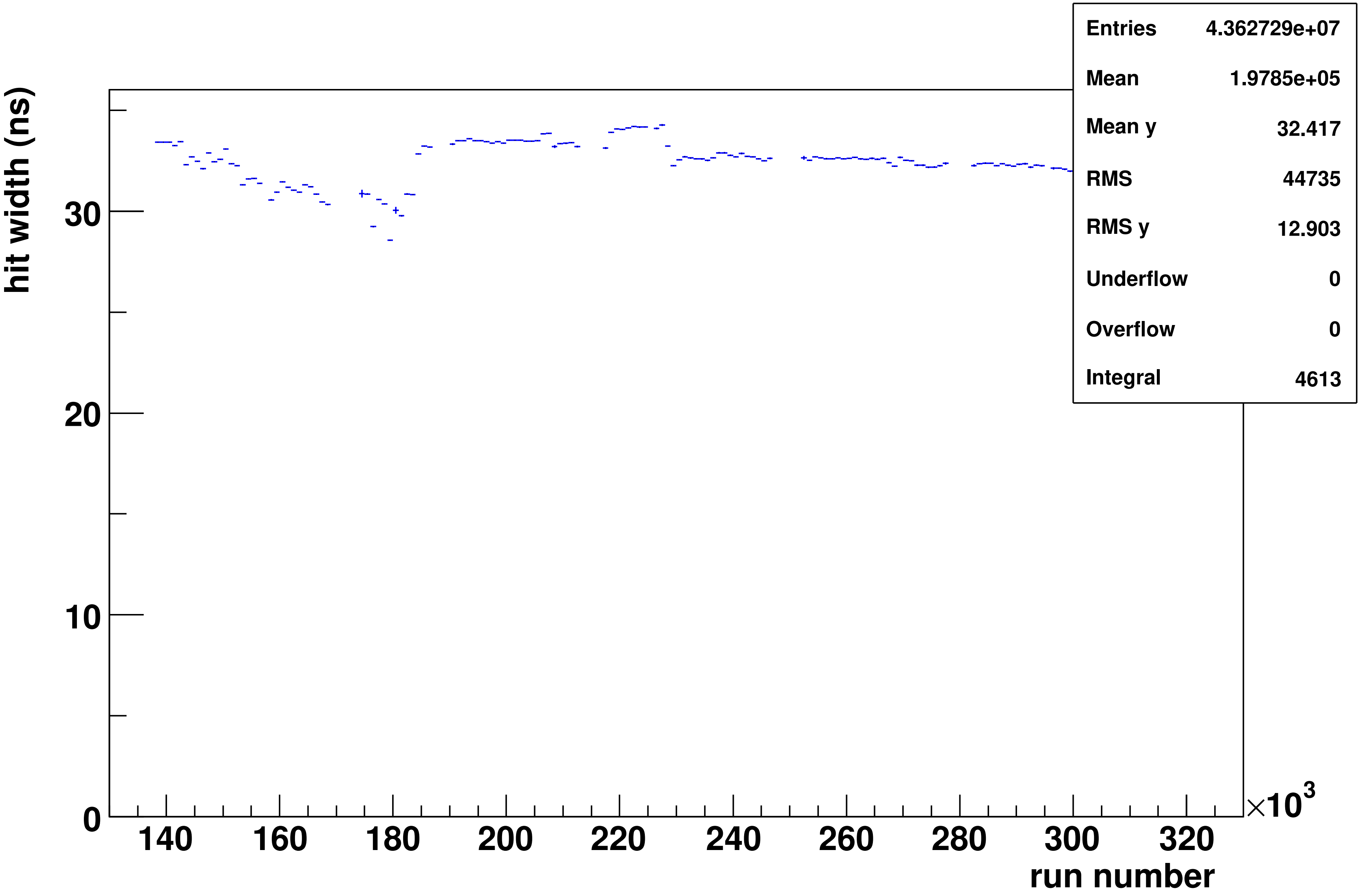


Δ sin Φ(tilt)
×10-3
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

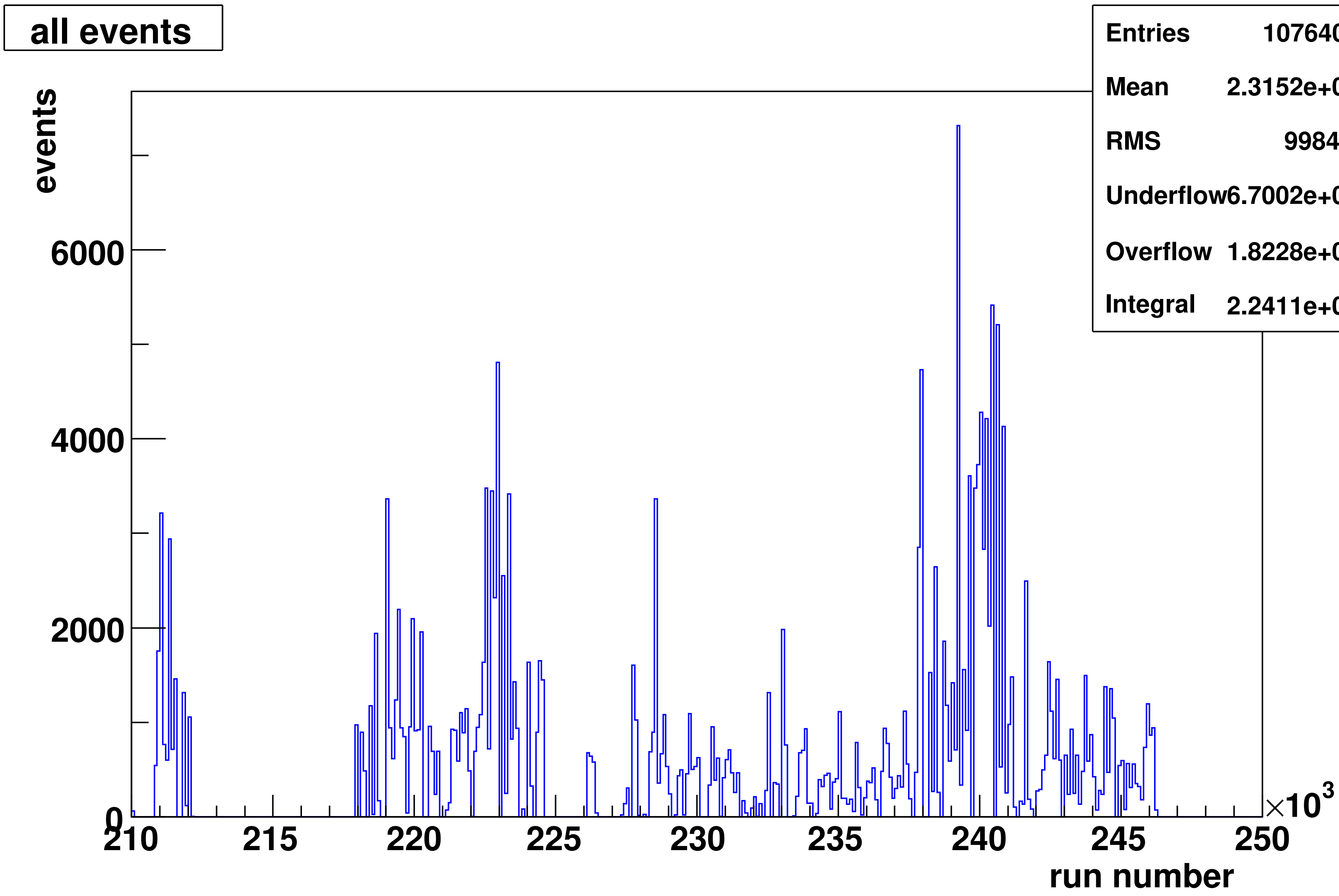

asym R Δφ(μm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number



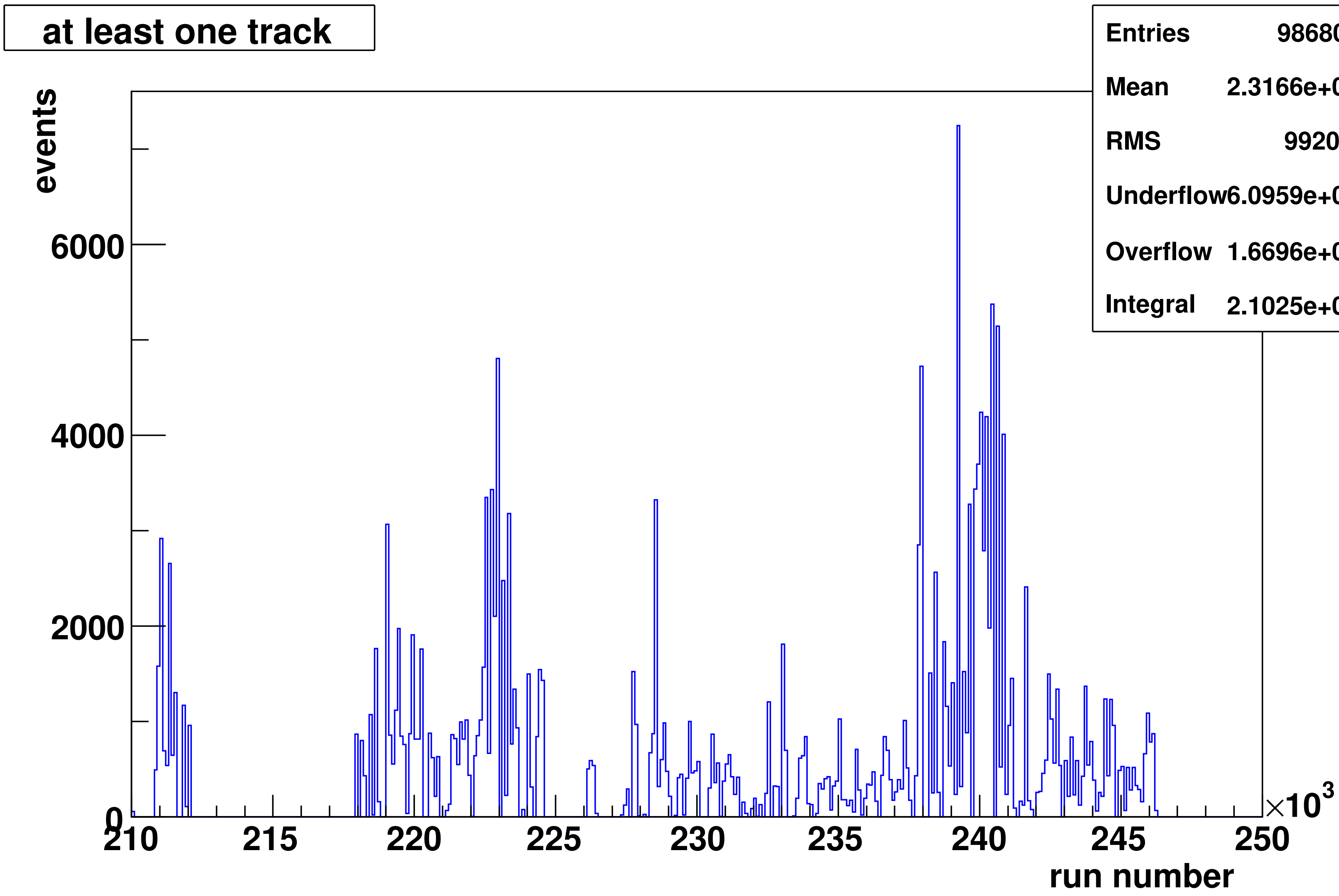
Entries 1076404
Mean 5.4134
RMS 14.438
Underflow 0
Overflow 12514
Integral 1.0639e+06
×10^3
events
0
200
400
600
0
20
40
60
80
100
120
140
N_tracks



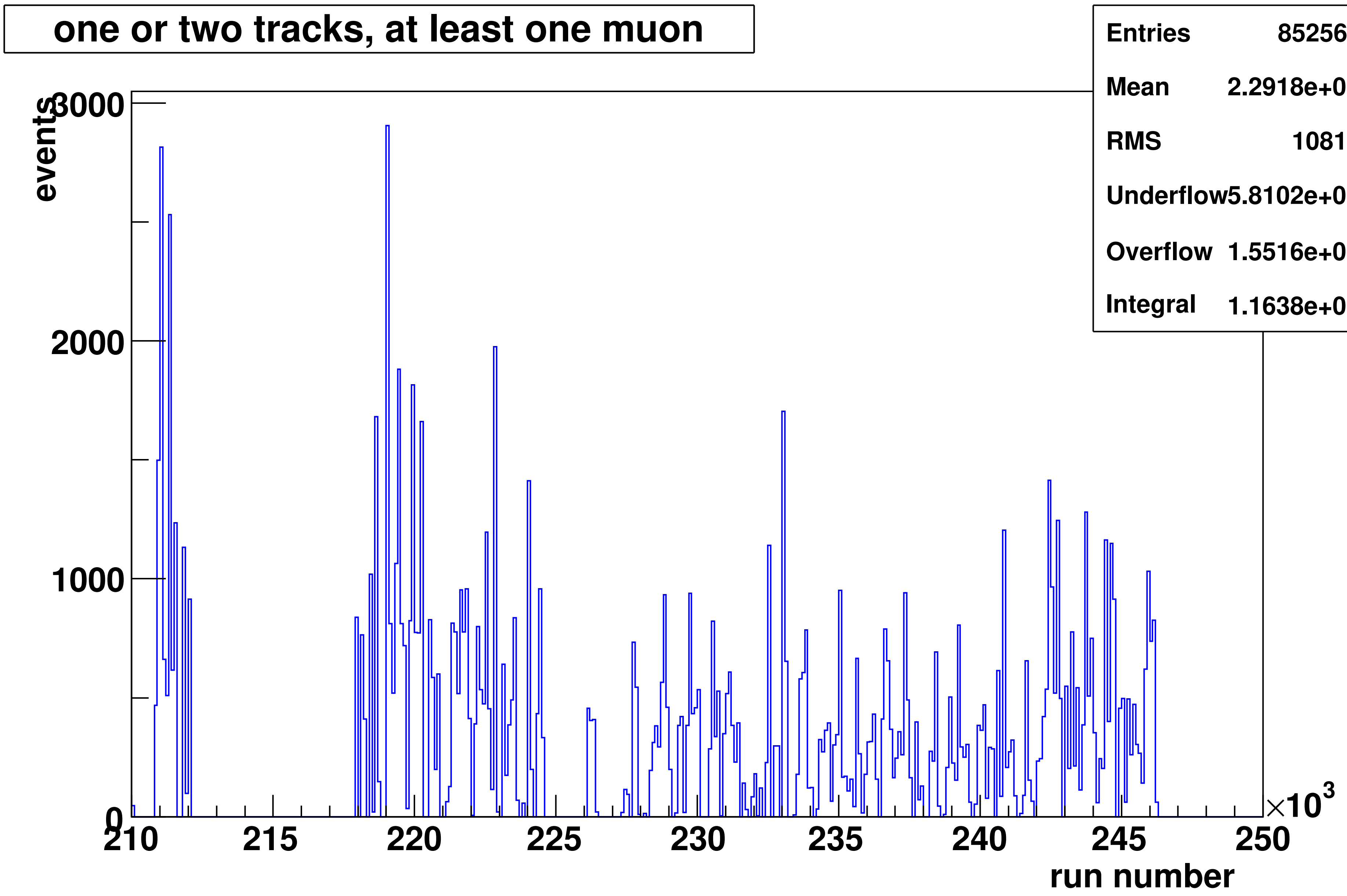
Entries 4.362729e+07
Mean 1.9785e+05
Mean y 32.417
RMS 44735
RMS y 12.903
Underflow 0
Overflow 0
Integral 4613
hit width (ns)
0
10
20
30
140
160
180
200
220
240
260
280
300
320
$\times 10^3$
run number



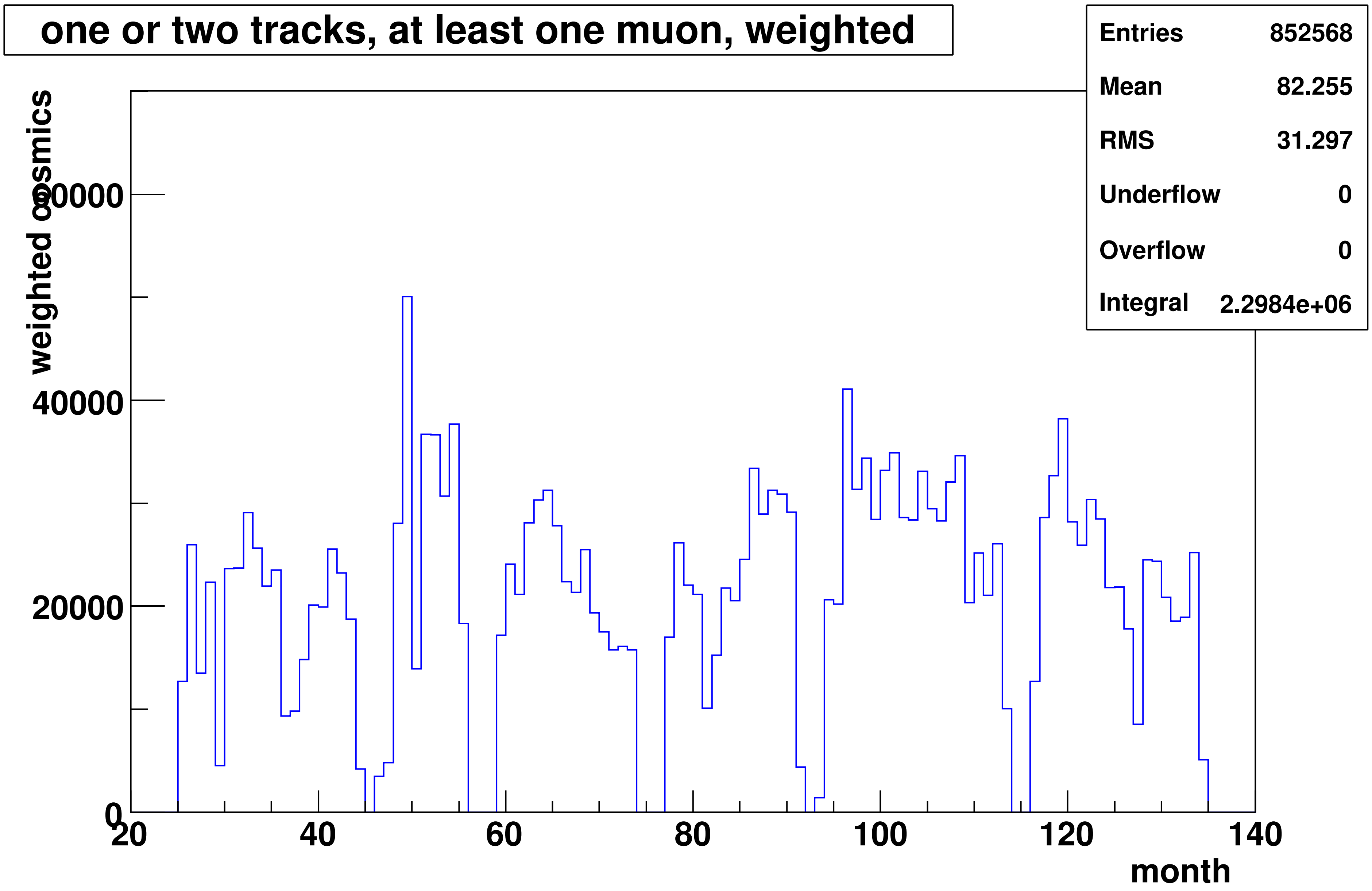
all events
Entries 1076404
Mean 2.3152e+05
RMS 9984.8
Underflow 6.7002e+05
Overflow 1.8228e+05
Integral 2.2411e+05
events
0
2000
4000
6000
210
215
220
225
230
235
240
245
250
×10^3
run number



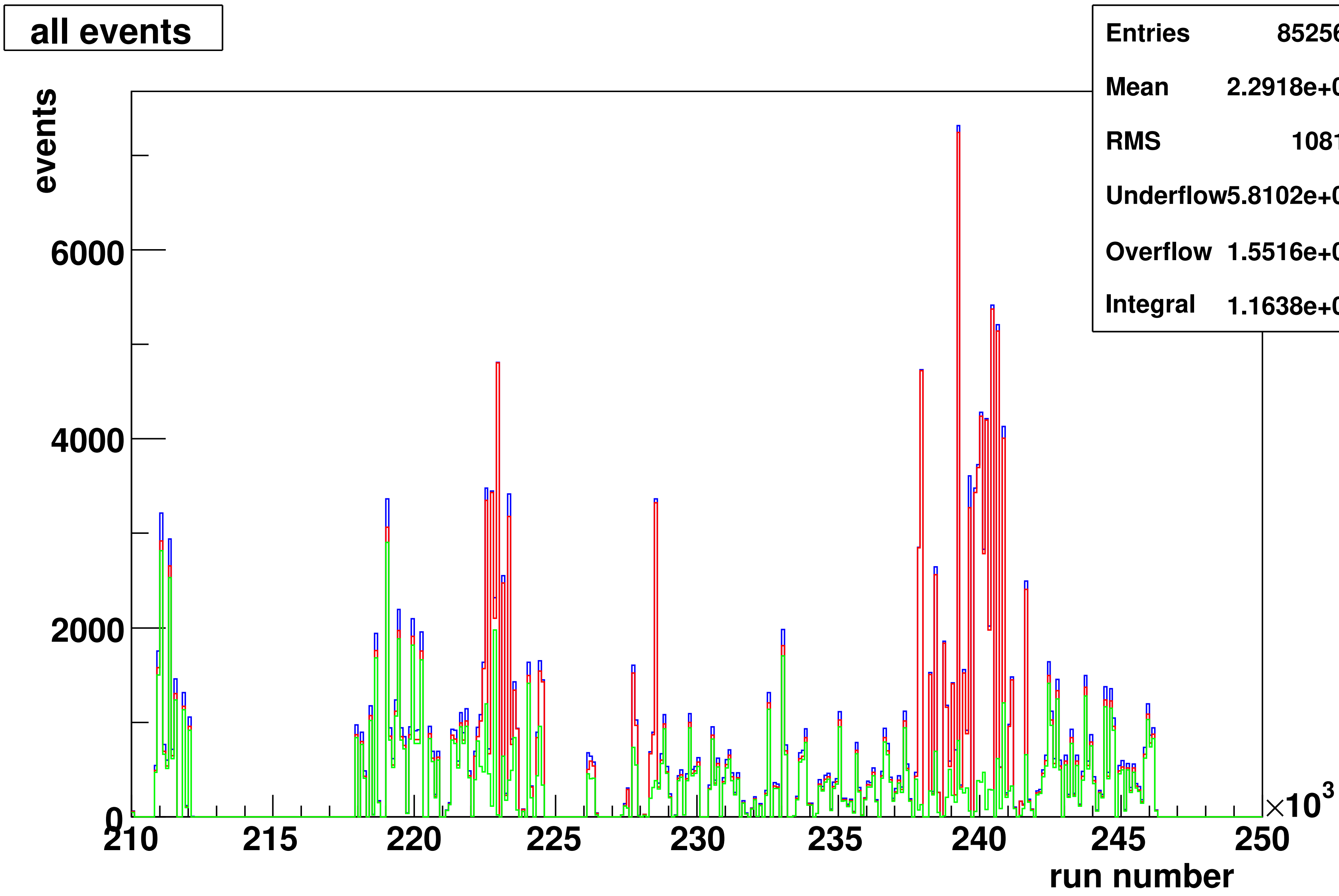
at least one track
Entries 986803
Mean 2.3166e+05
RMS 9920.5
Underflow 6.0959e+05
Overflow 1.6696e+05
Integral 2.1025e+05
events
0
2000
4000
6000
210
215
220
225
230
235
240
245
250
$\times 10^3$
run number

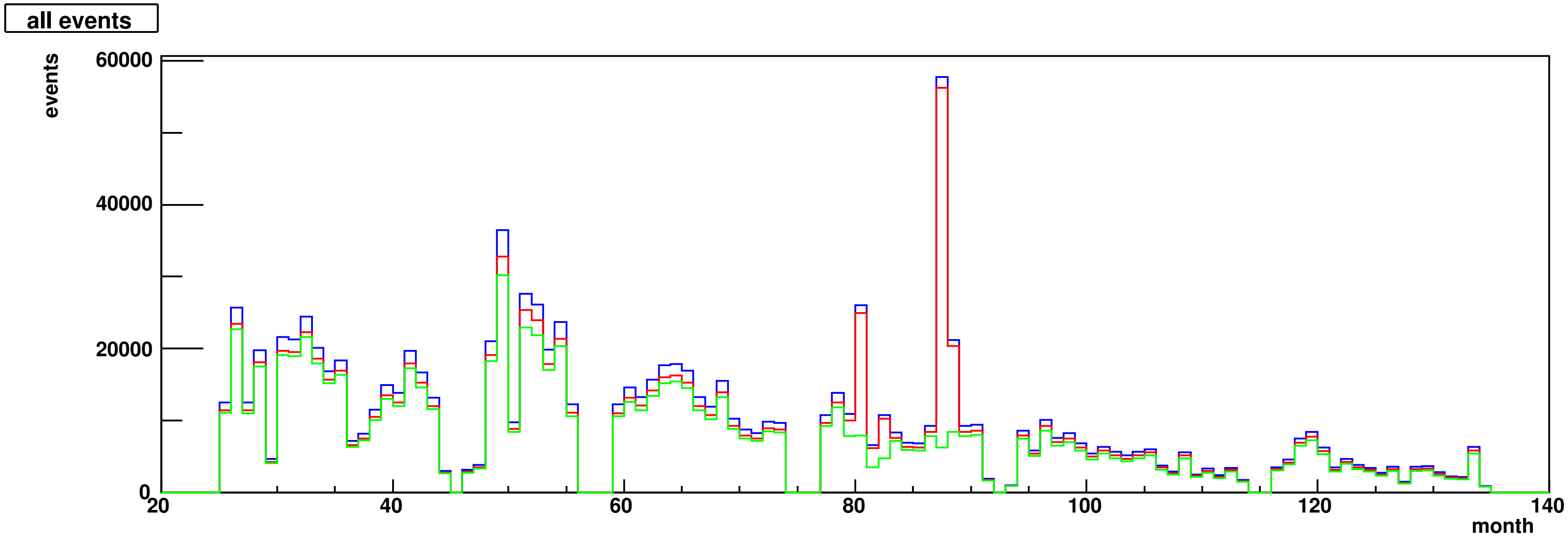


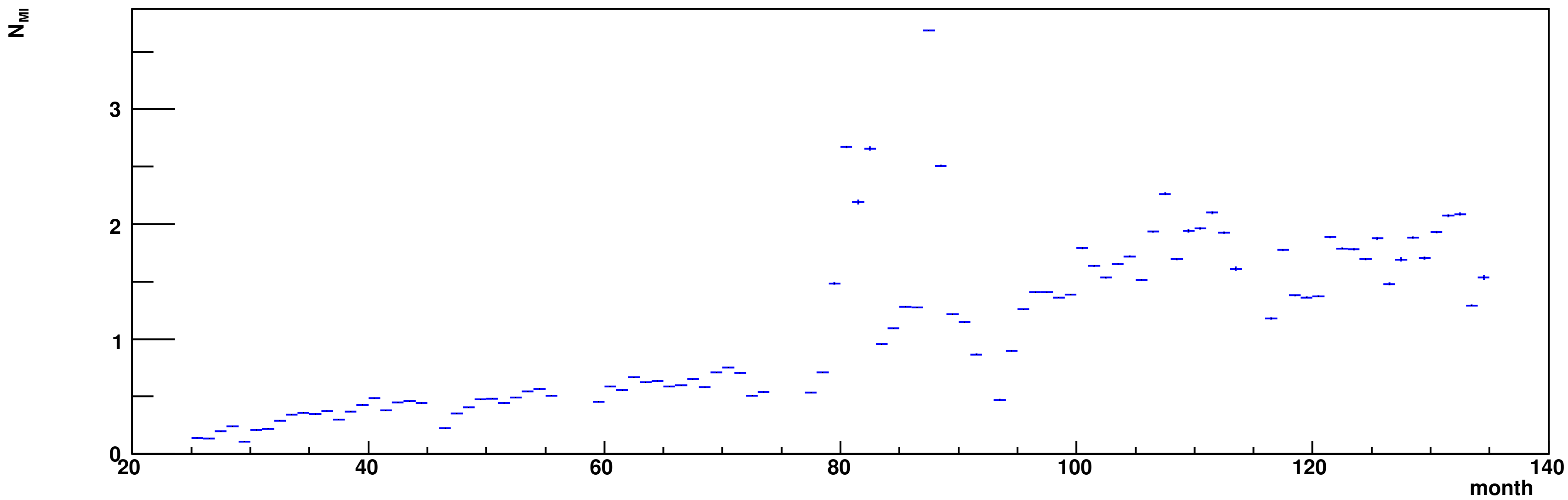
one or two tracks, at least one muon
Entries 852568
Mean 2.2918e+05
RMS 10815
Underflow 5.8102e+05
Overflow 1.5516e+05
Integral 1.1638e+05
events
3000
2000
1000
0
210
215
220
225
230
235
240
245
250
$\times 10^3$
run number

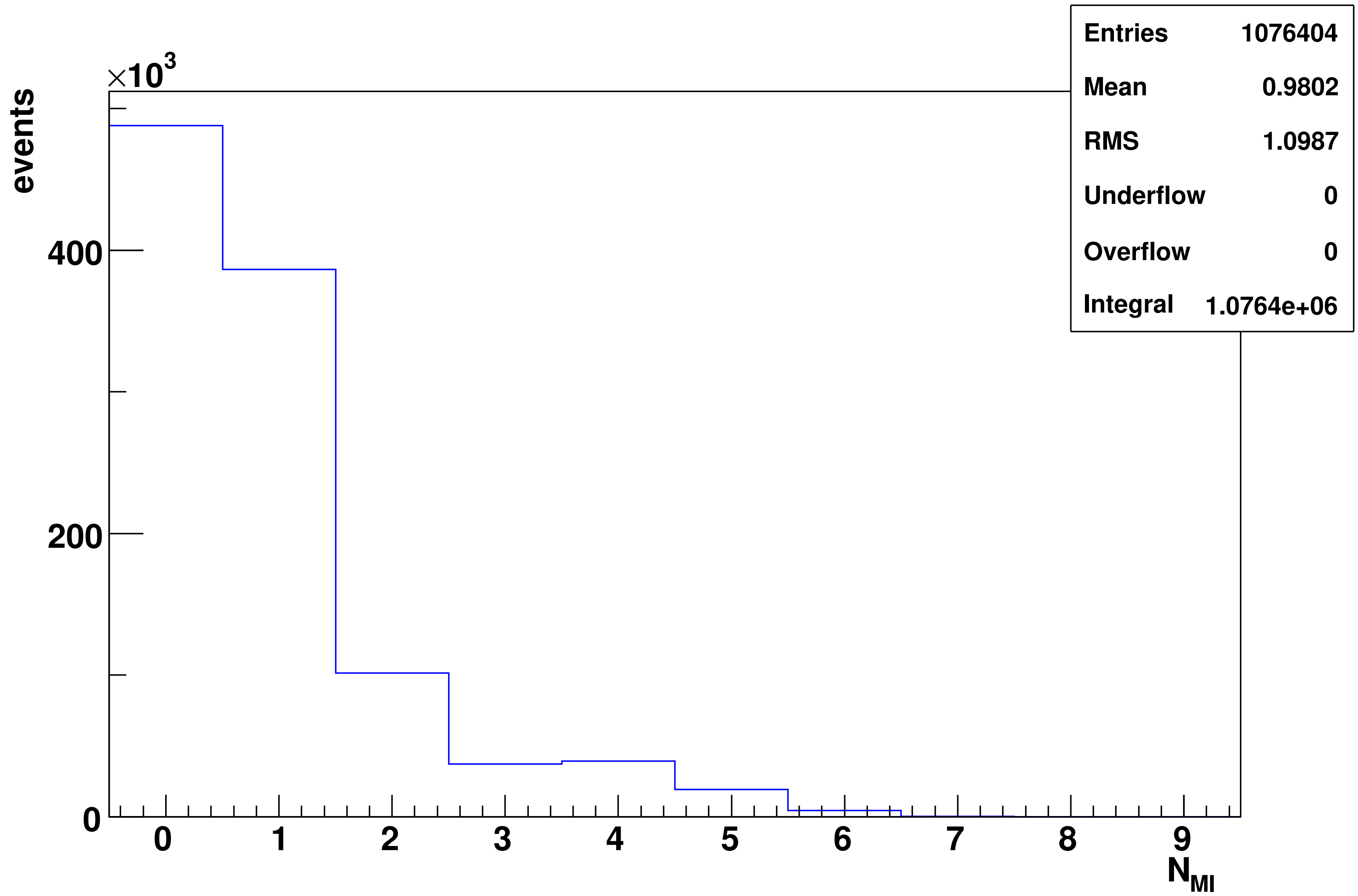


one or two tracks, at least one muon, weighted
Entries 852568
Mean 82.255
RMS 31.297
Underflow 0
Overflow 0
Integral 2.2984e+06
weighted cosmics
60000
40000
20000
0
20
40
60
80
100
120
140
month

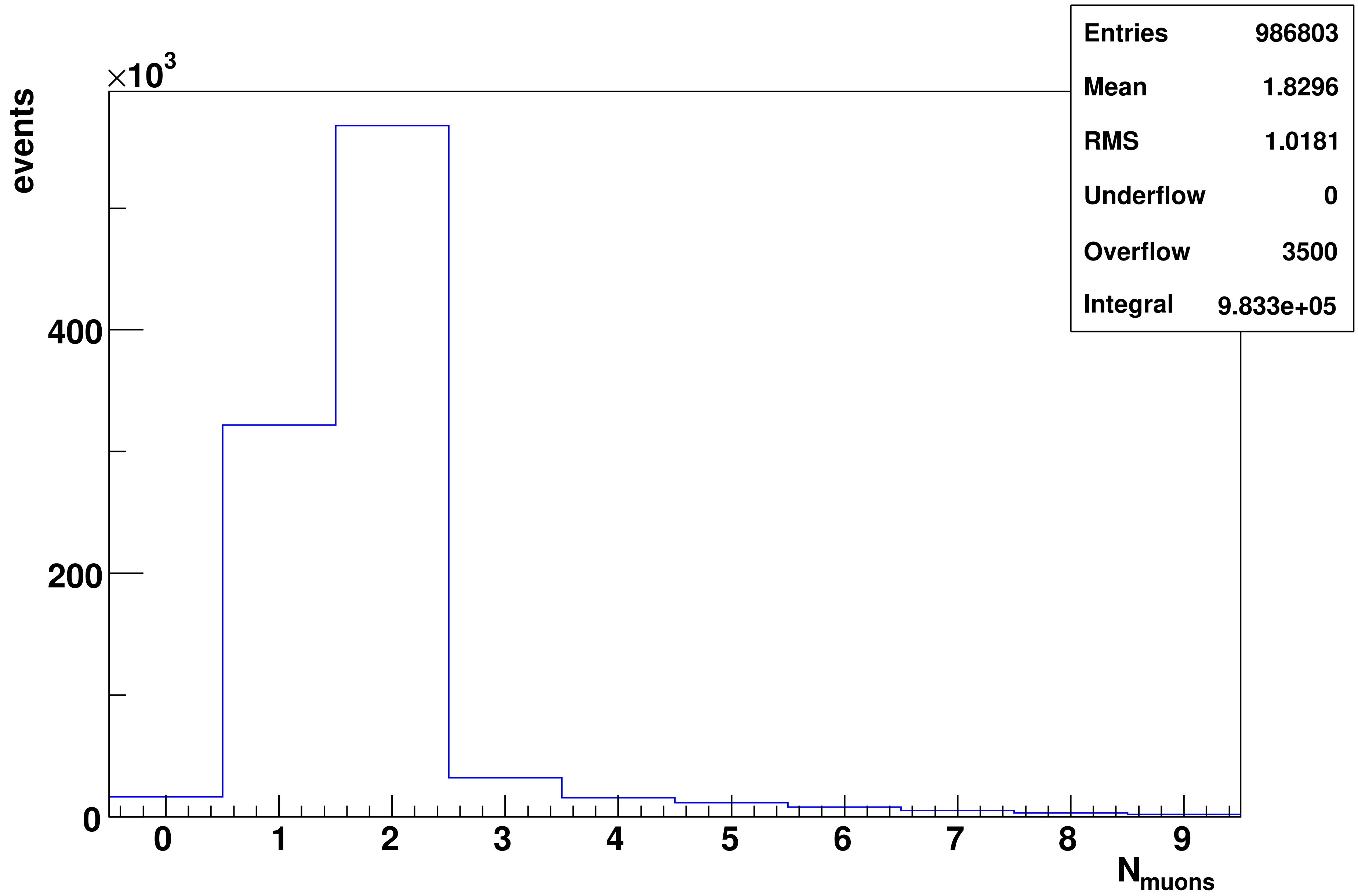

all events
events
Entries 852568
Mean 2.2918e+05
RMS 10815
Underflow 5.8102e+05
Overflow 1.5516e+05
Integral 1.1638e+05
0
2000
4000
6000
210
215
220
225
230
235
240
245
250
×10^3
run number


all events
events
60000
40000
20000
0
20
40
60
80
100
120
140
month

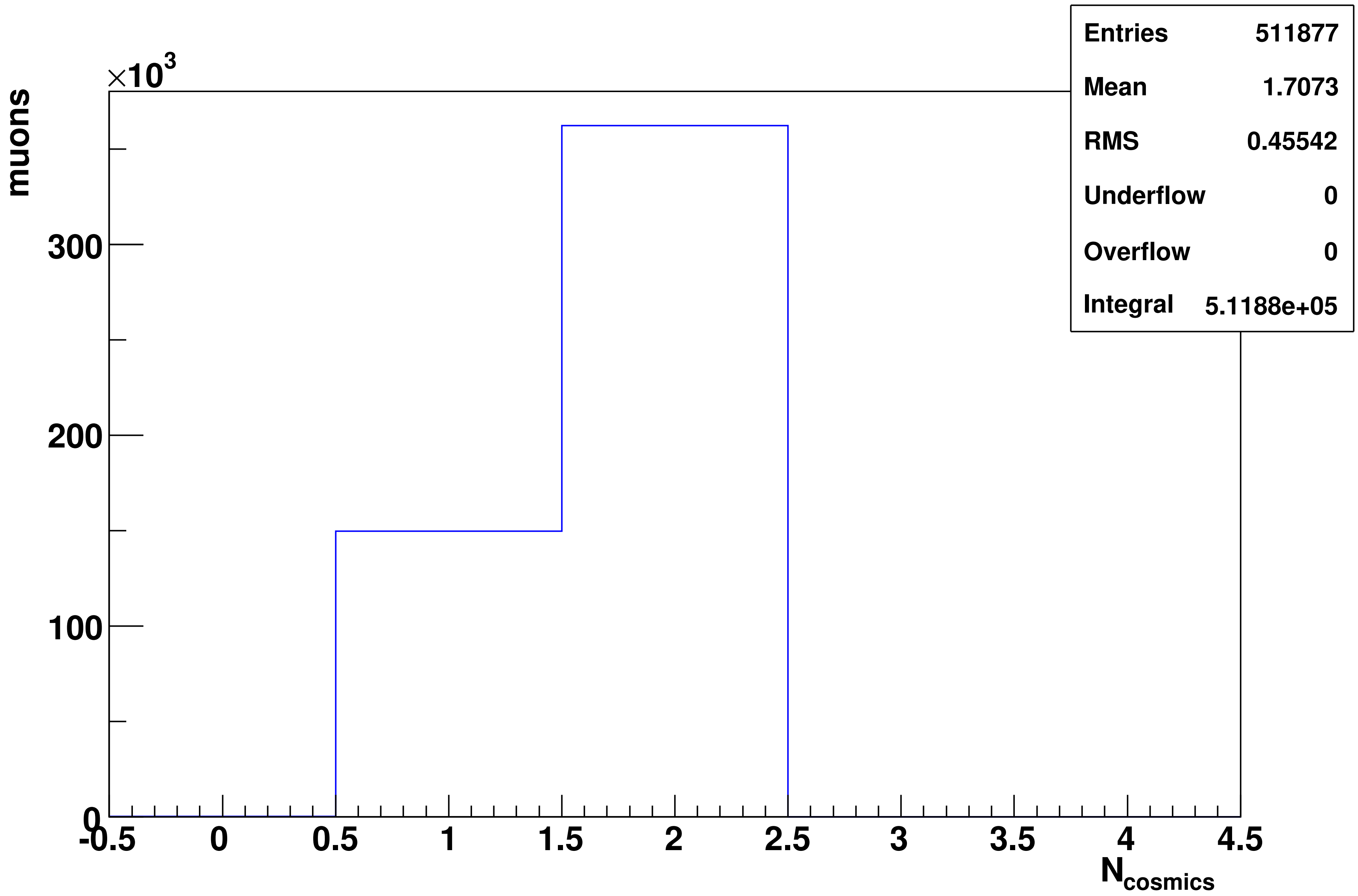

N_{MI}
3
2
1
0
20
40
60
80
100
120
140
month



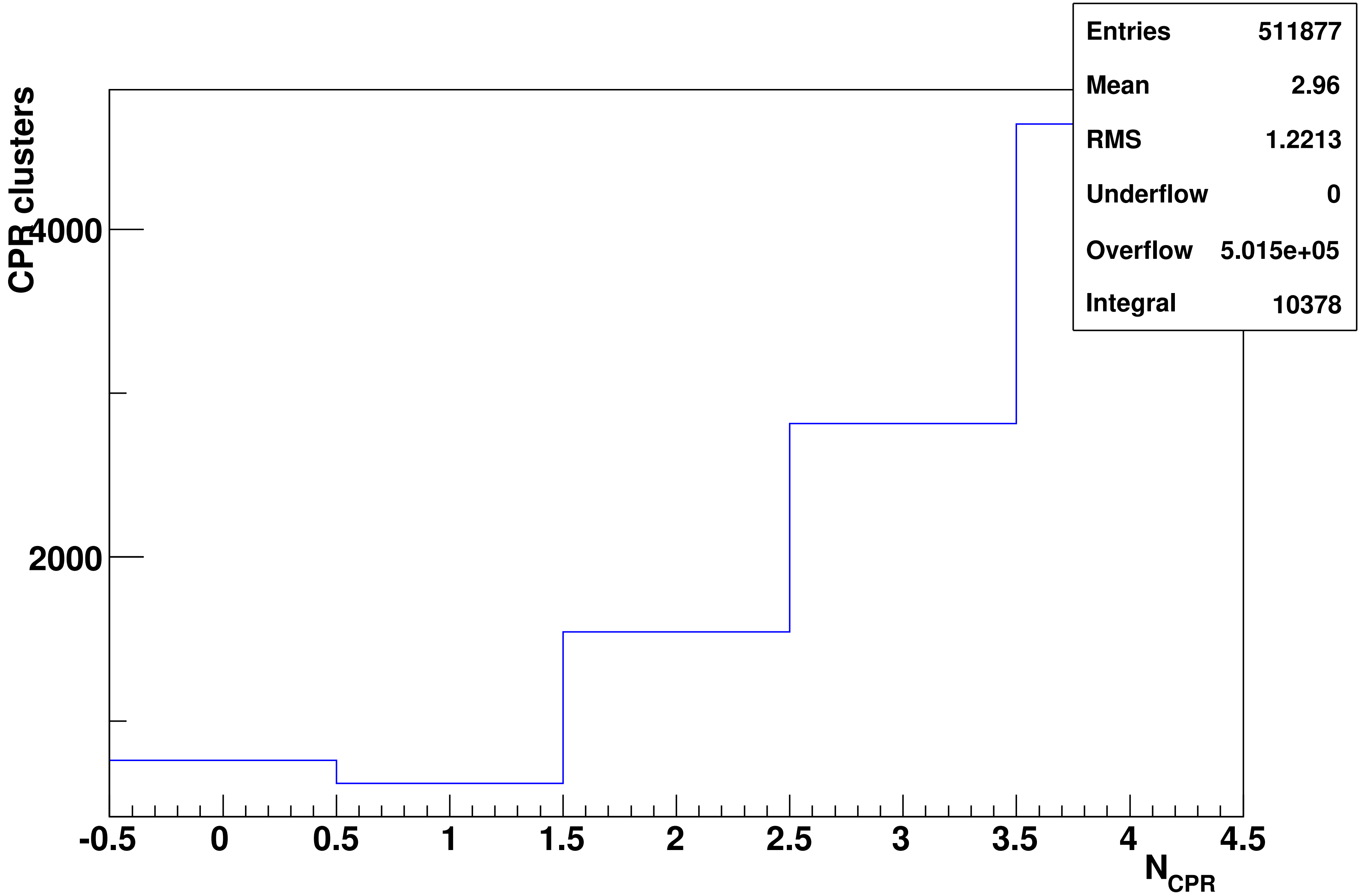
Entries 1076404
Mean 0.9802
RMS 1.0987
Underflow 0
Overflow 0
Integral 1.0764e+06
$\times 10^3$
events
400
200
0
0 1 2 3 4 5 6 7 8 9
N_{MI}



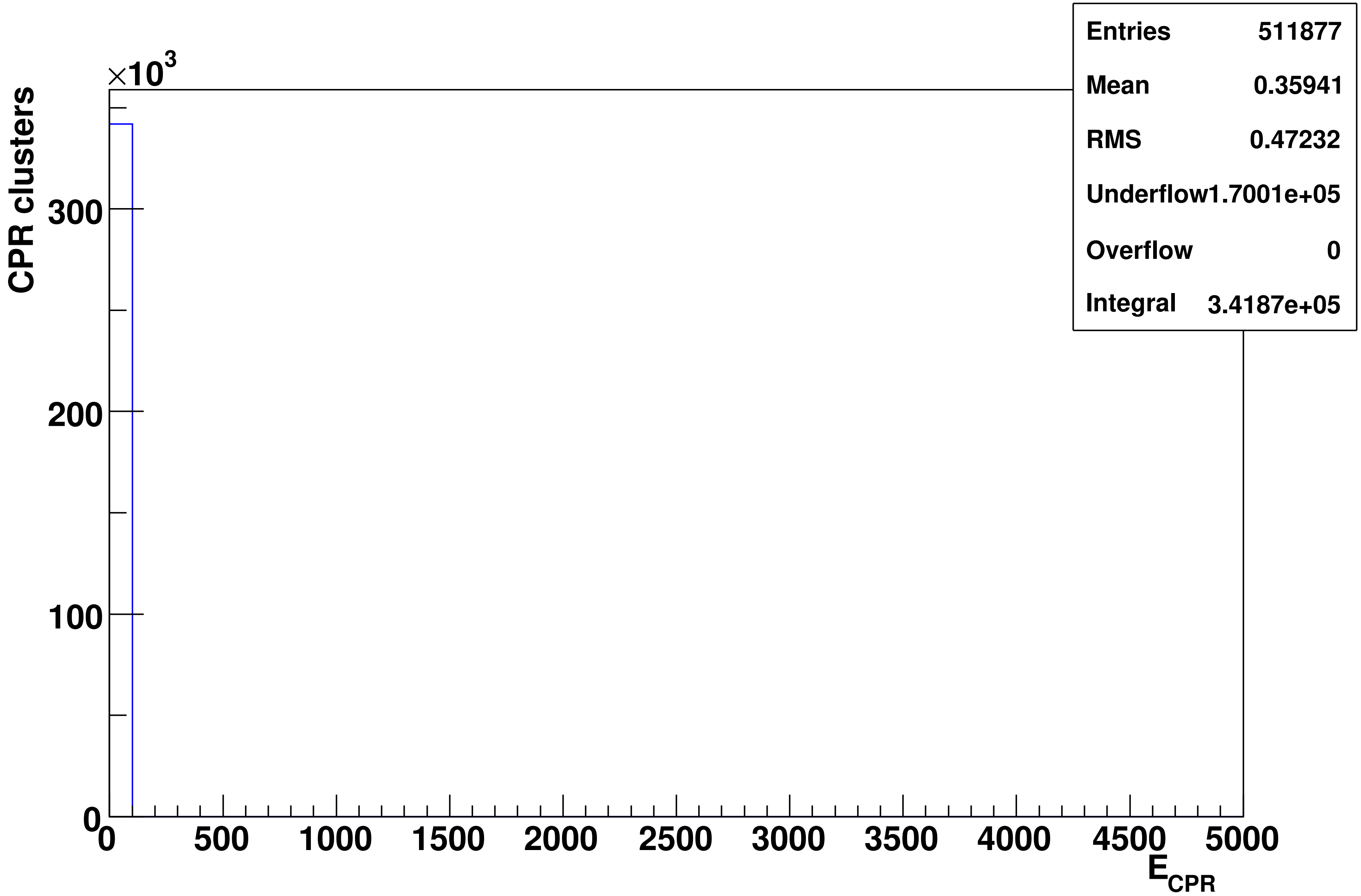
Entries 986803
Mean 1.8296
RMS 1.0181
Underflow 0
Overflow 3500
Integral 9.833e+05
×10³
events
0
200
400
0 1 2 3 4 5 6 7 8 9
N_muons



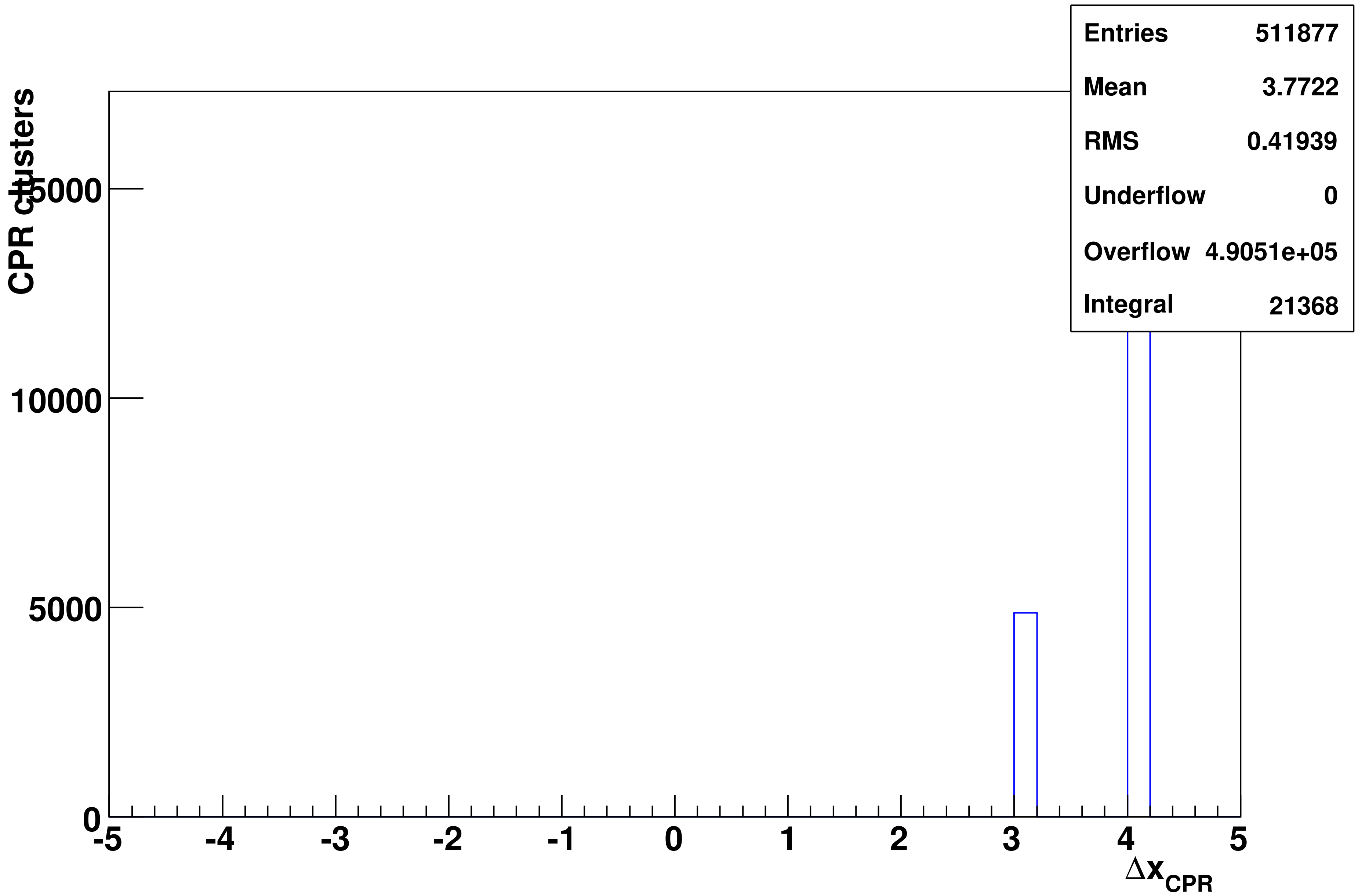
Entries 511877
Mean 1.7073
RMS 0.45542
Underflow 0
Overflow 0
Integral 5.1188e+05
×10^3
muons
300
200
100
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_cosmics



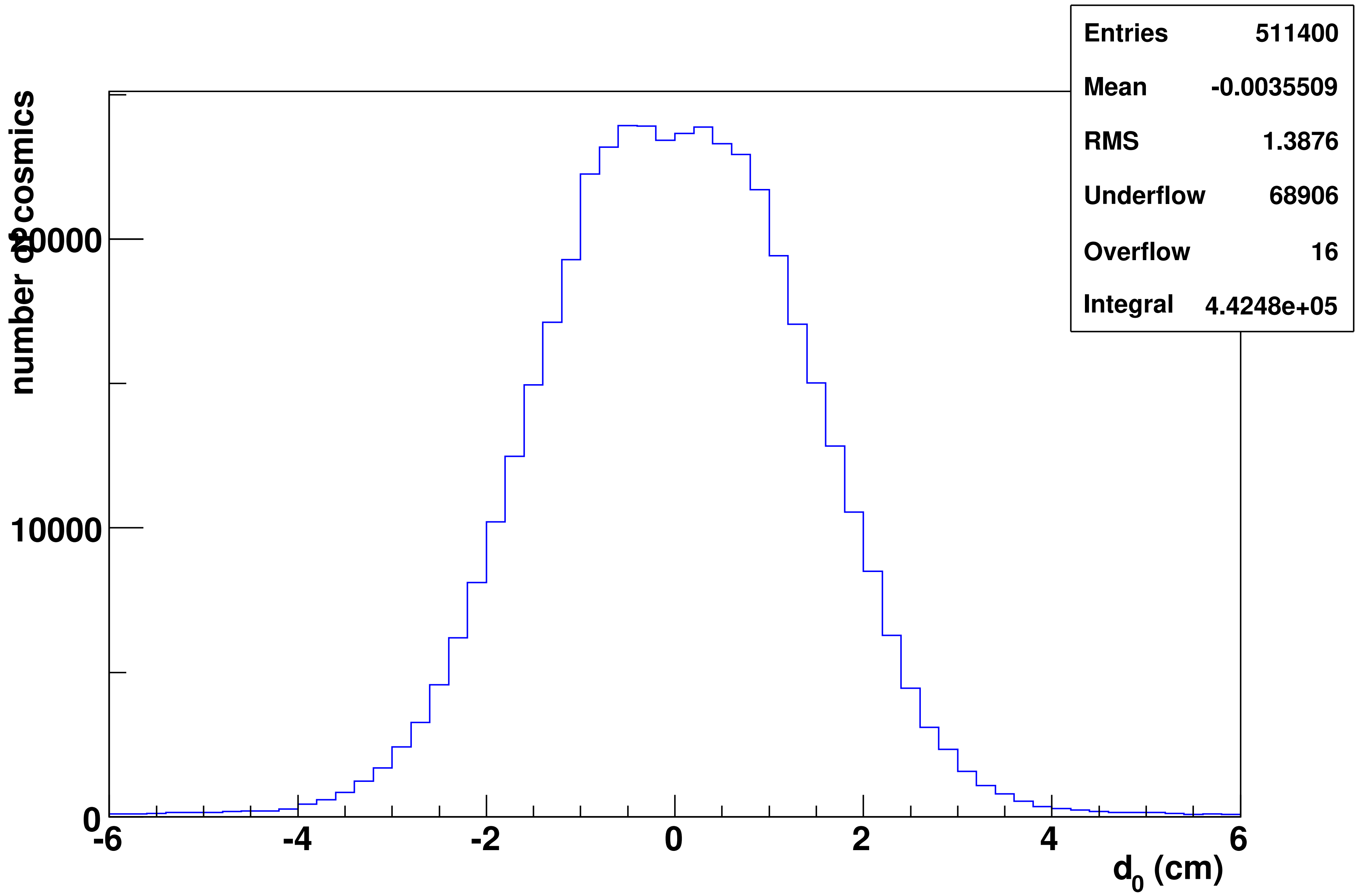
Entries 511877
Mean 2.96
RMS 1.2213
Underflow 0
Overflow 5.015e+05
Integral 10378
CPR clusters
4000
2000
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_{CPR}



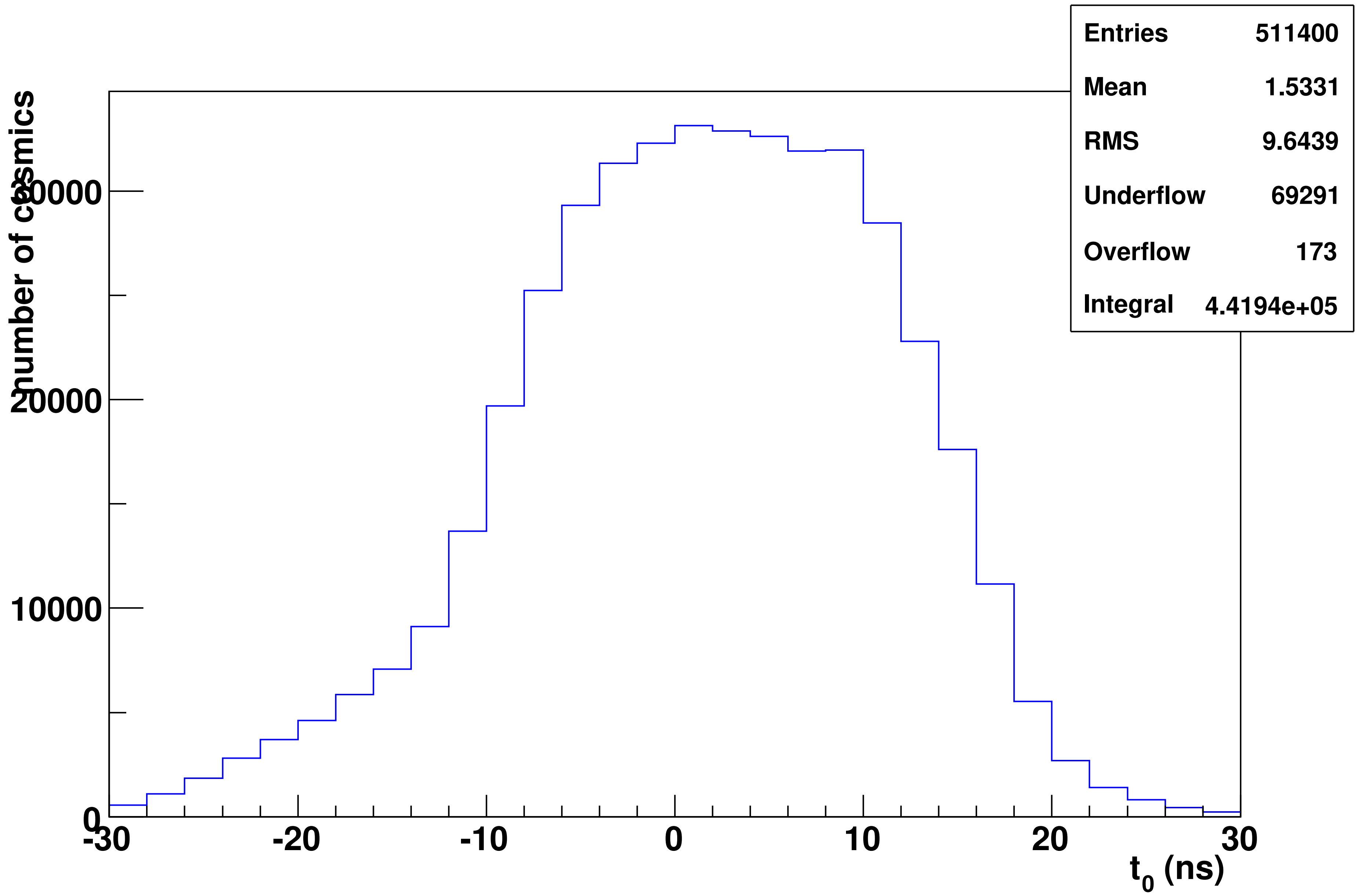
Entries 511877
Mean 0.35941
RMS 0.47232
Underflow1.7001e+05
Overflow 0
Integral 3.4187e+05
×10^3
CPR clusters
0
100
200
300
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
E_CPR

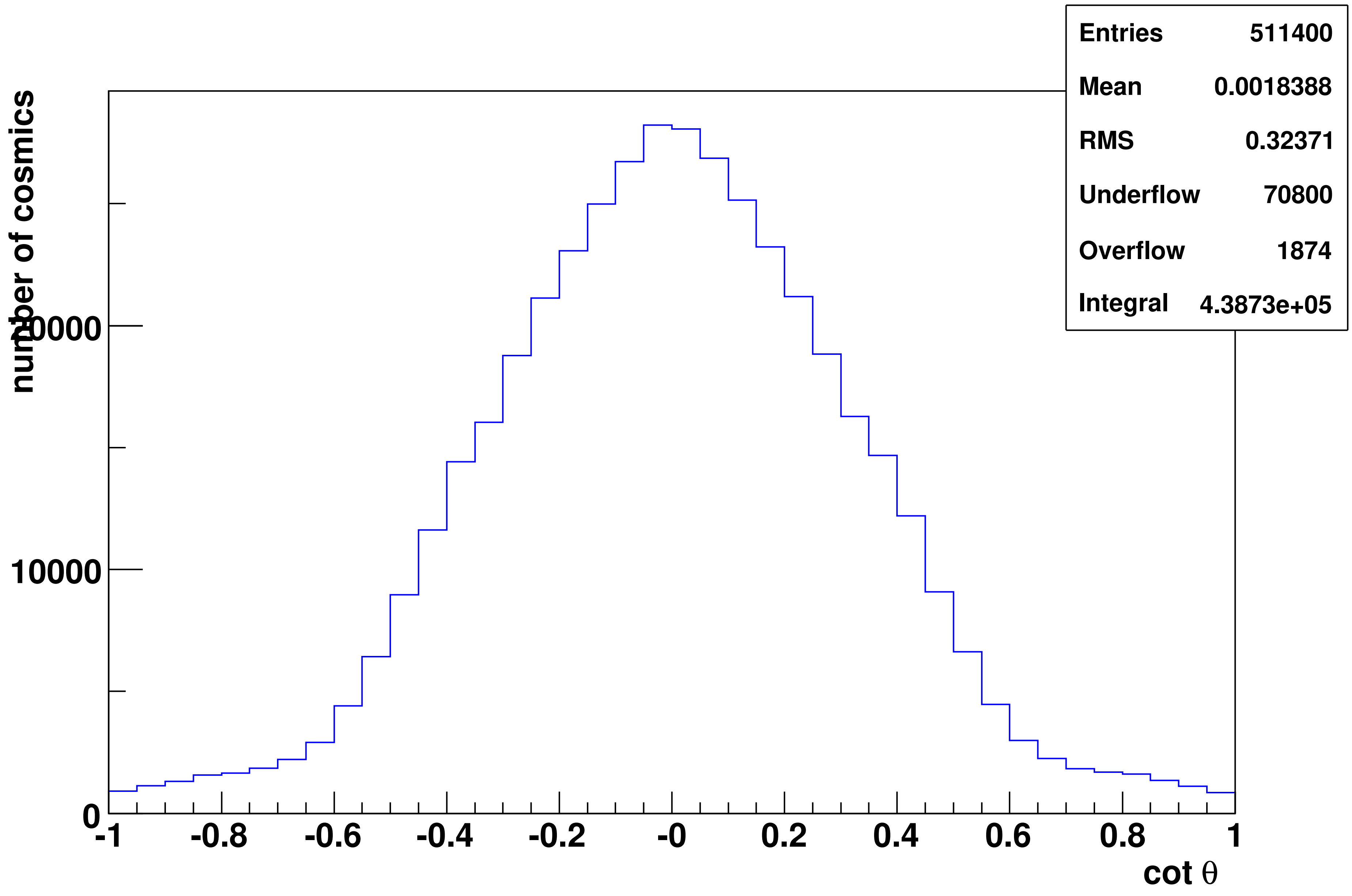


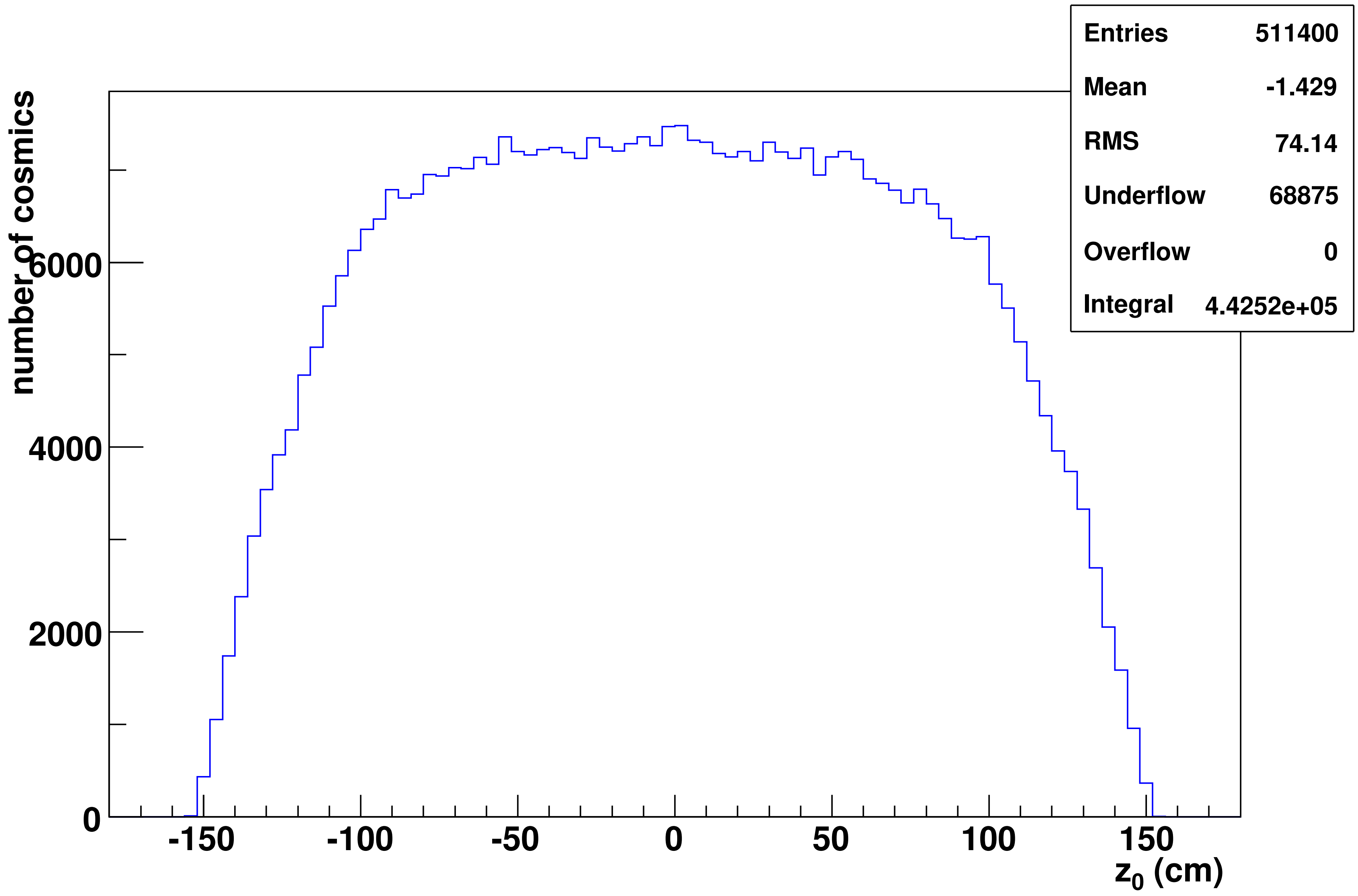
Entries 511877
Mean 3.7722
RMS 0.41939
Underflow 0
Overflow 4.9051e+05
Integral 21368
CPR clusters
15000
10000
5000
0
-5
-4
-3
-2
-1
0
1
2
3
4
5
Δx_CPR



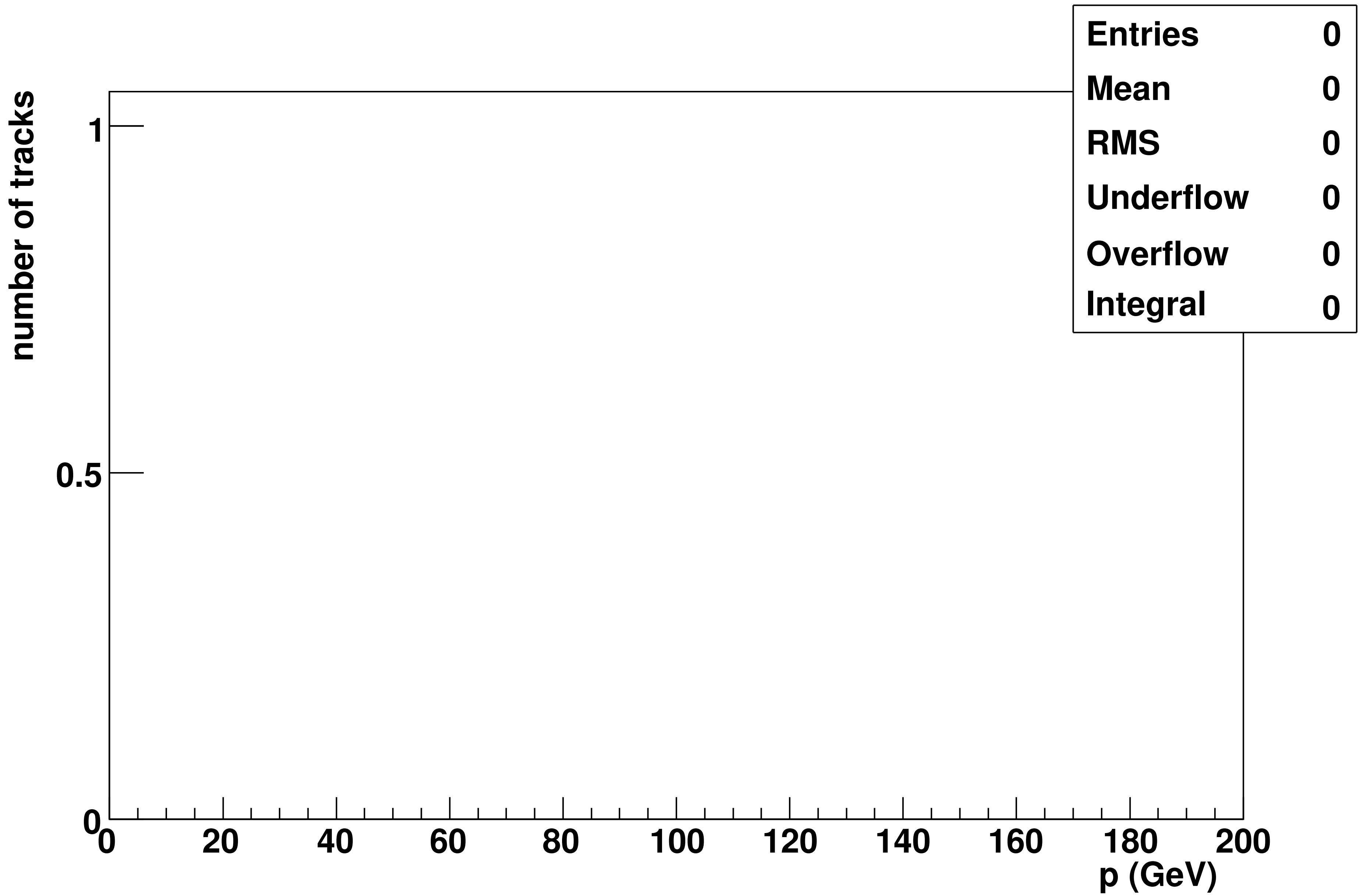
Entries 511400
Mean -0.0035509
RMS 1.3876
Underflow 68906
Overflow 16
Integral 4.4248e+05
number of cosmics
0
10000
20000
-6
-4
-2
0
2
4
6
d_0 (cm)

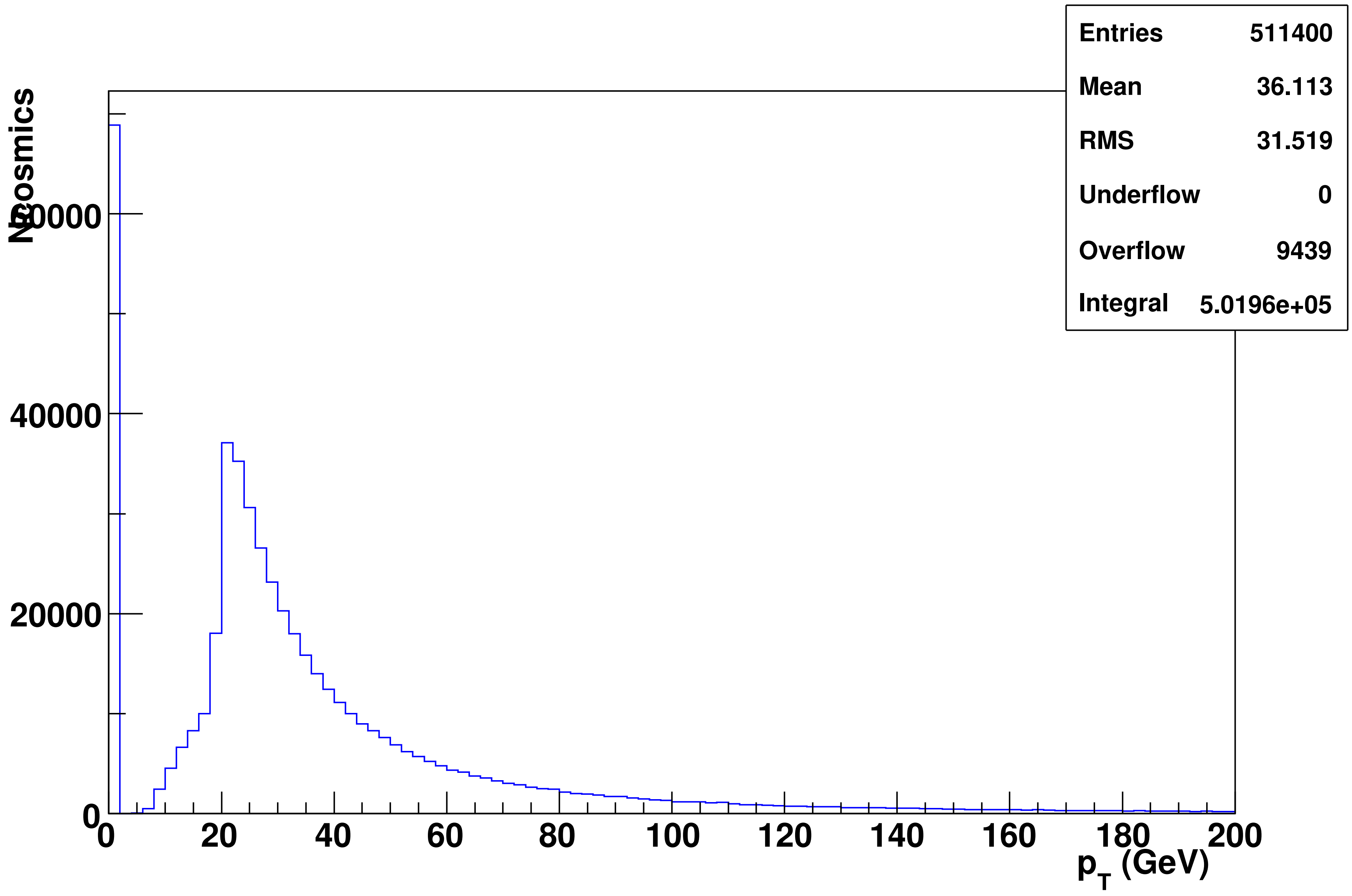

Entries 511400
Mean 1.5331
RMS 9.6439
Underflow 69291
Overflow 173
Integral 4.4194e+05
number of cosmics
30000
20000
10000
0
-30
-20
-10
0
10
20
30
t0 (ns)


Entries 511400
Mean 0.0018388
RMS 0.32371
Underflow 70800
Overflow 1874
Integral 4.3873e+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

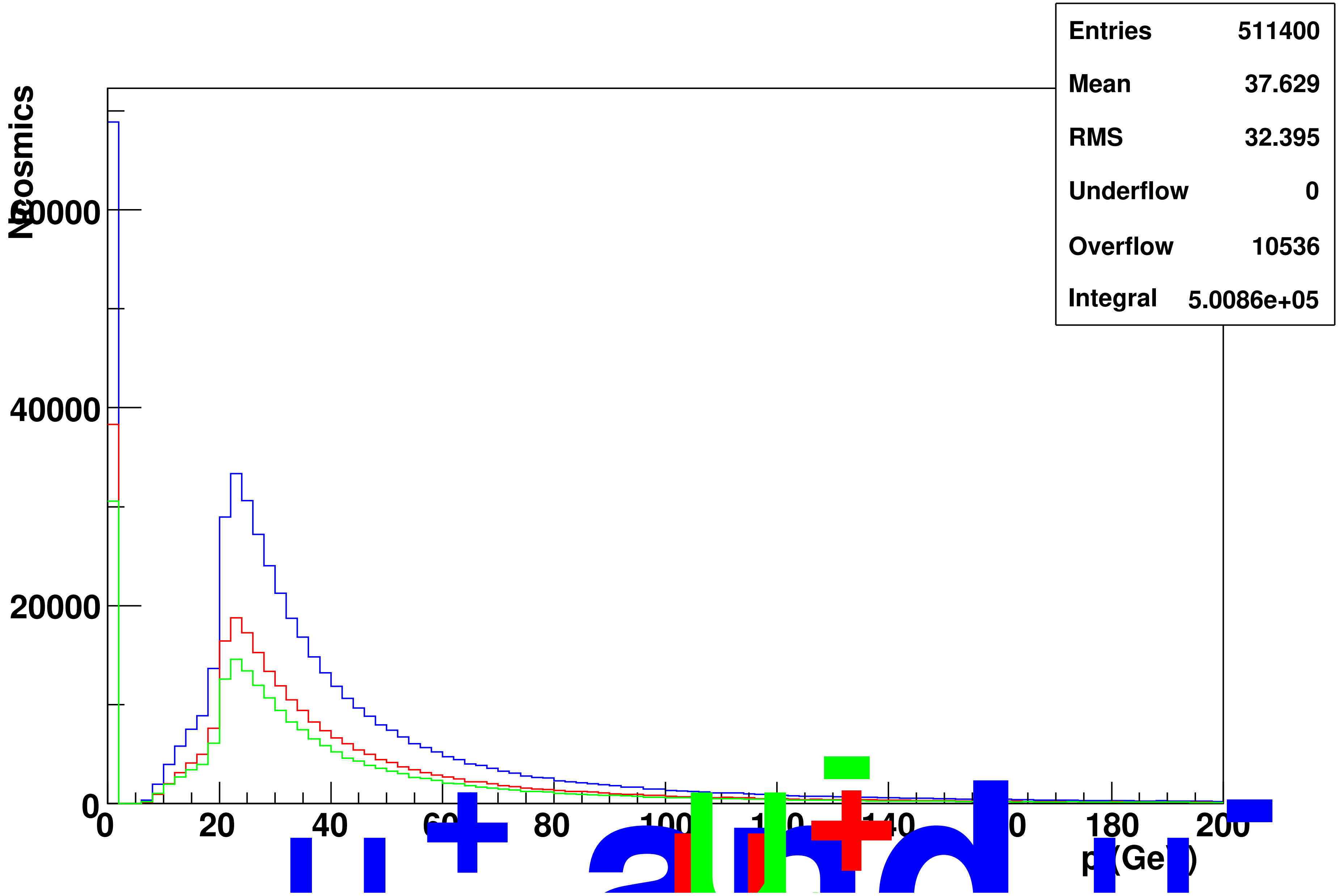


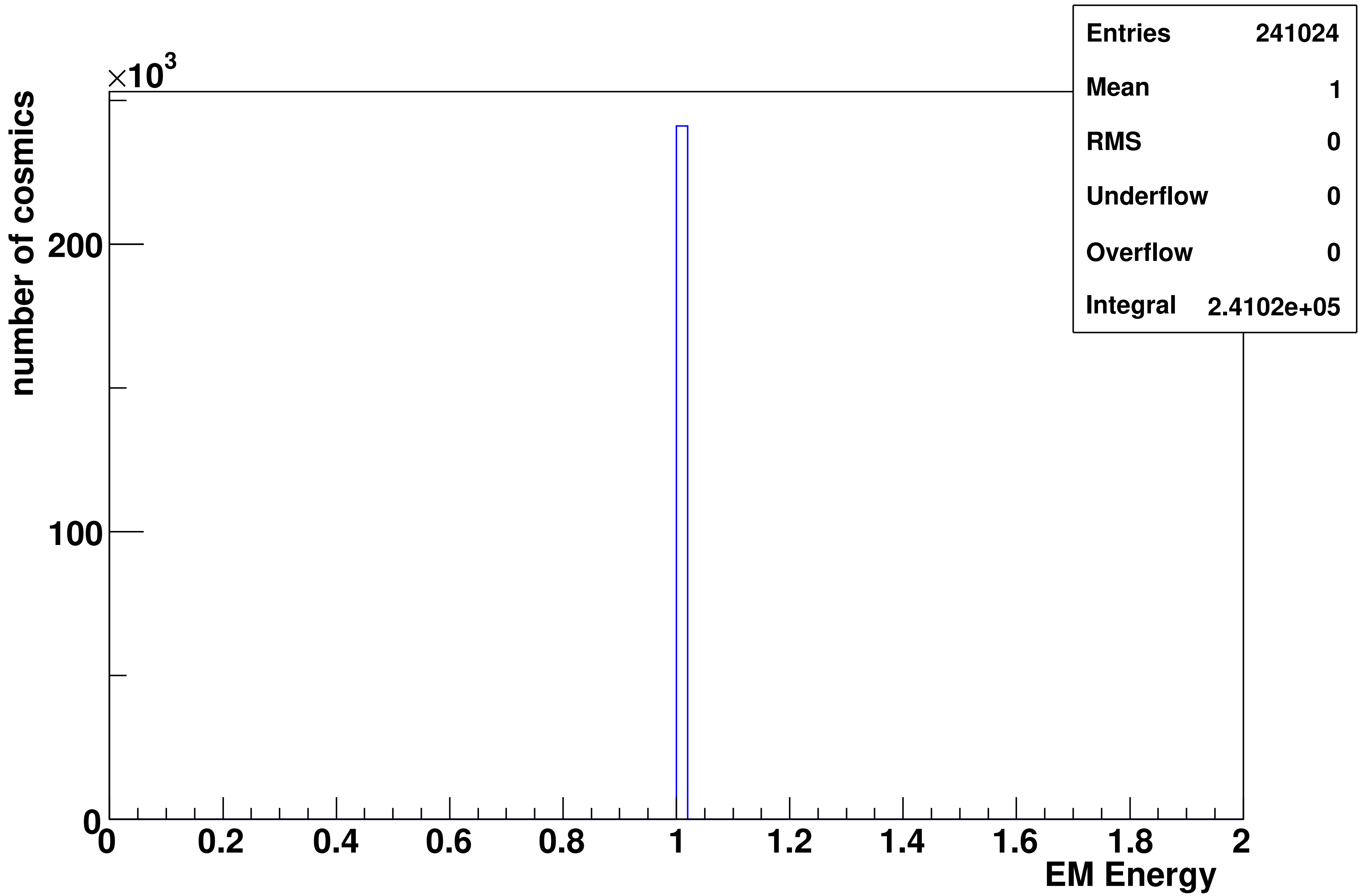
Entries 511400
Mean -1.429
RMS 74.14
Underflow 68875
Overflow 0
Integral 4.4252e+05
number of cosmics
0
2000
4000
6000
-150
-100
-50
0
50
100
150
z_0 (cm)


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)

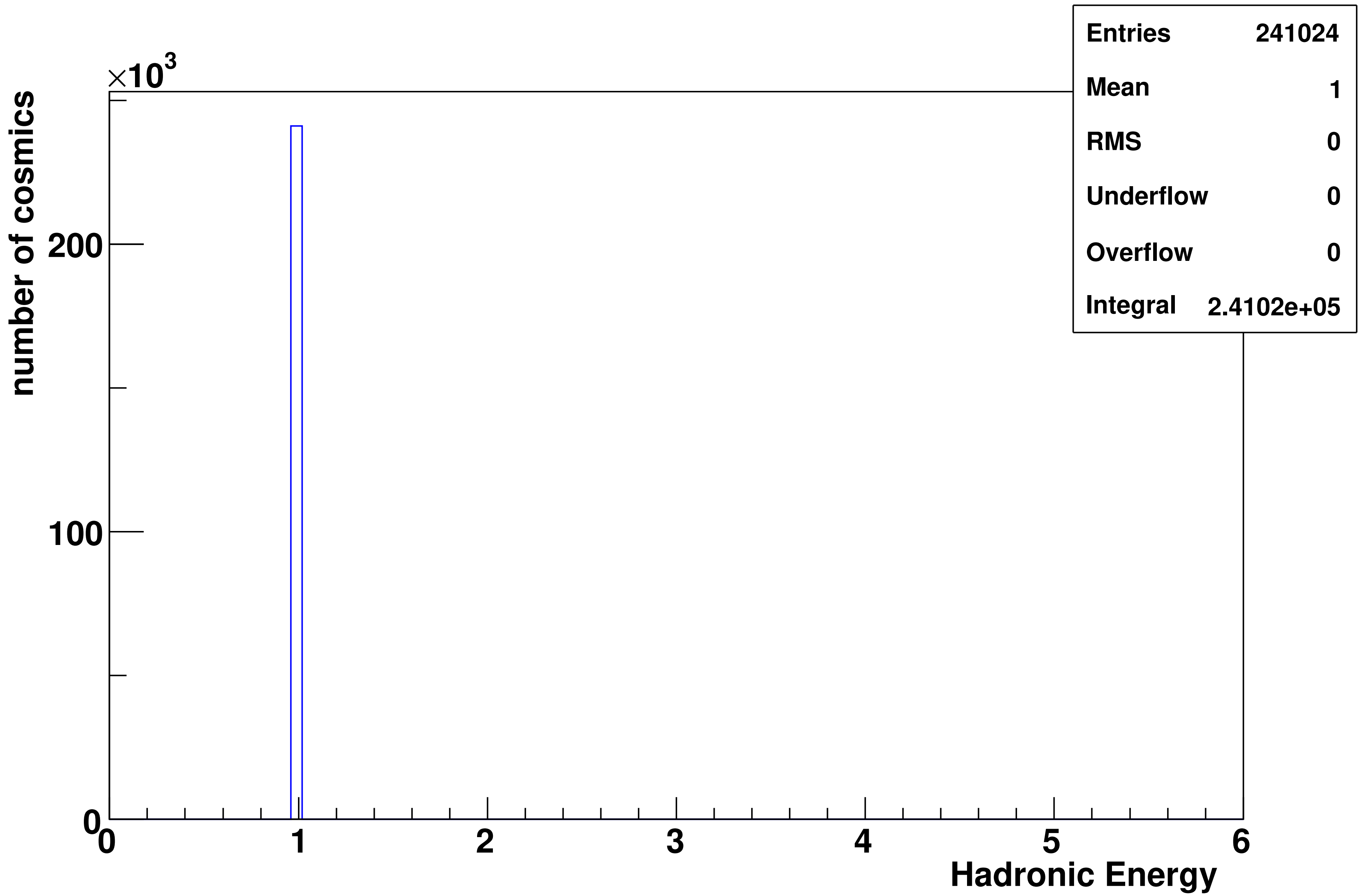


Entries 511400
Mean 36.113
RMS 31.519
Underflow 0
Overflow 9439
Integral 5.0196e+05
Ncosmics
60000
40000
20000
0
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV)

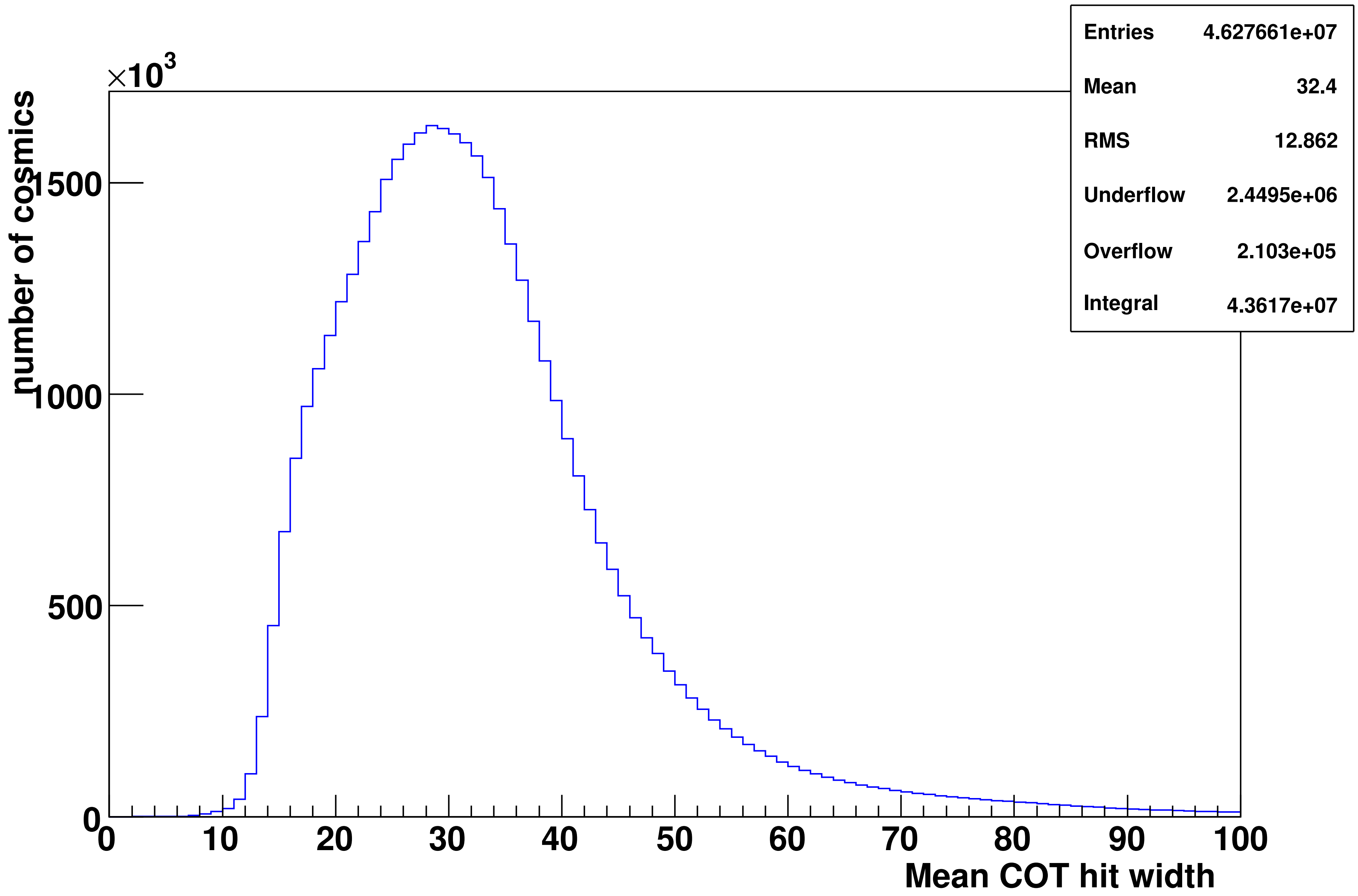

Entries 511400
Mean 37.629
RMS 32.395
Underflow 0
Overflow 10536
Integral 5.0086e+05
40000
20000
0
0
20
40
80
180
200

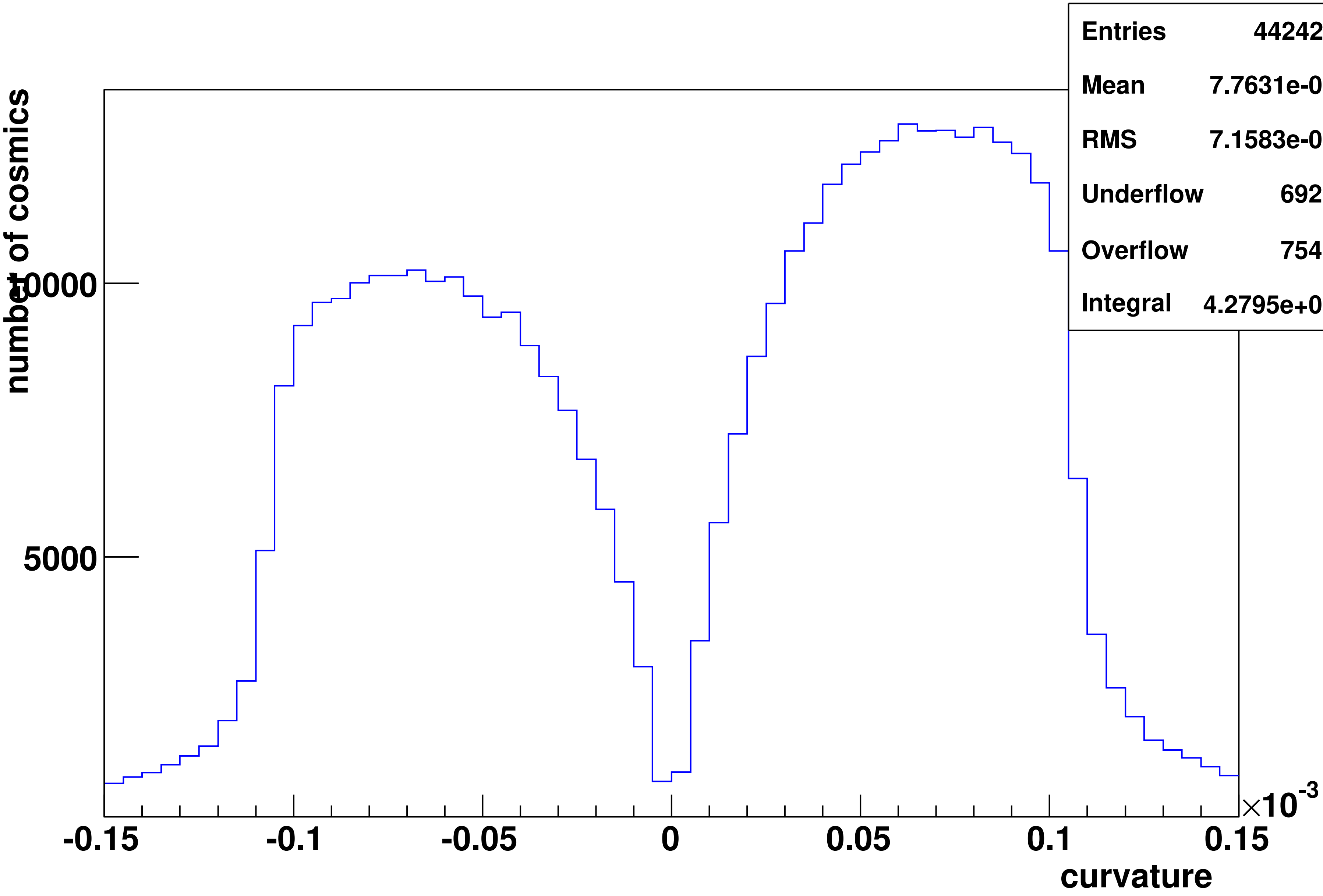


Entries 241024
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.4102e+05
×10^3
number of cosmics
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
EM Energy

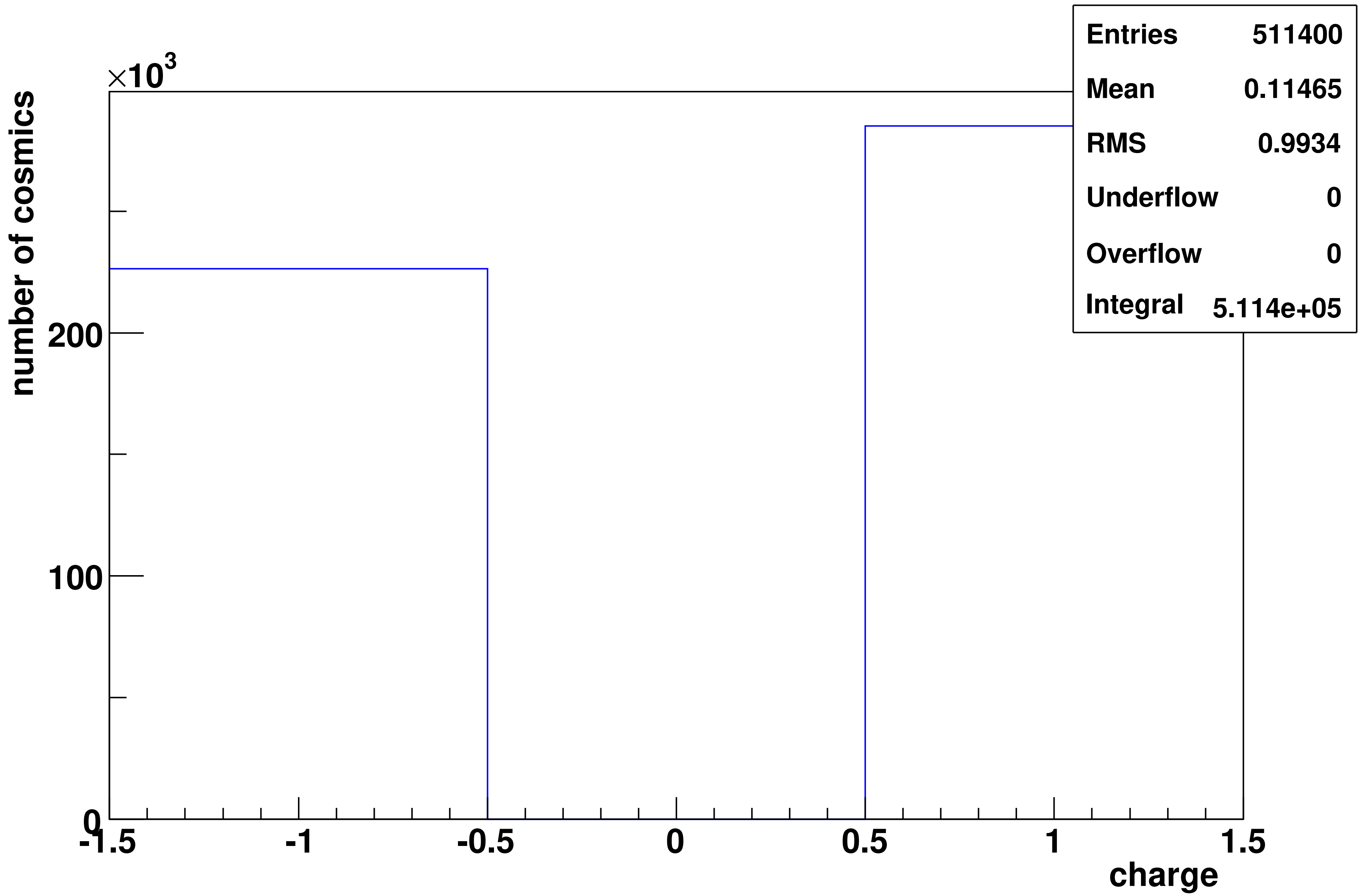


Entries 241024
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.4102e+05
×10^3
number of cosmics
200
100
0
0
1
2
3
4
5
6
Hadronic Energy

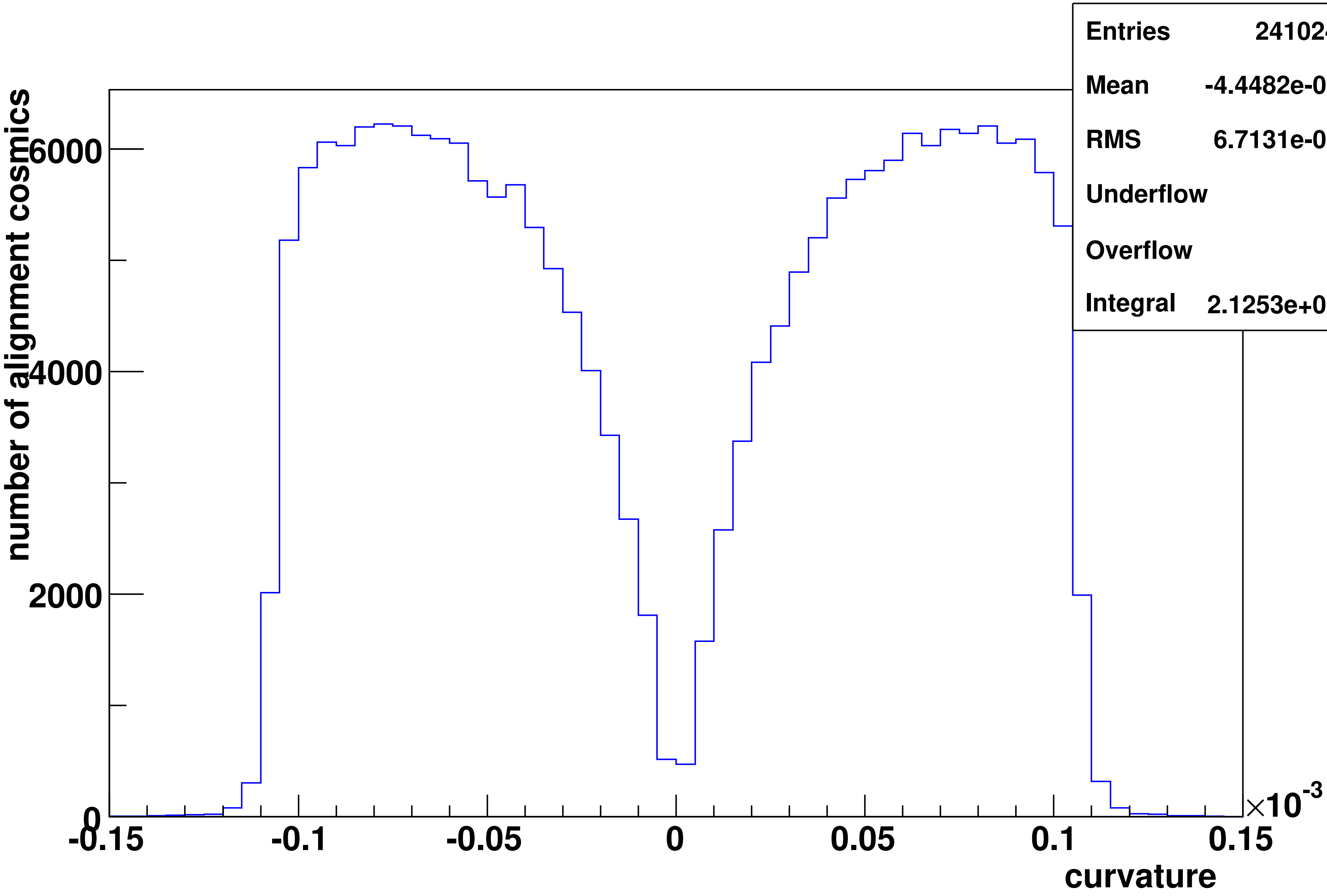

Entries 4.627661e+07
Mean 32.4
RMS 12.862
Underflow 2.4495e+06
Overflow 2.103e+05
Integral 4.3617e+07
×10^3
number of cosmics
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
Mean COT hit width



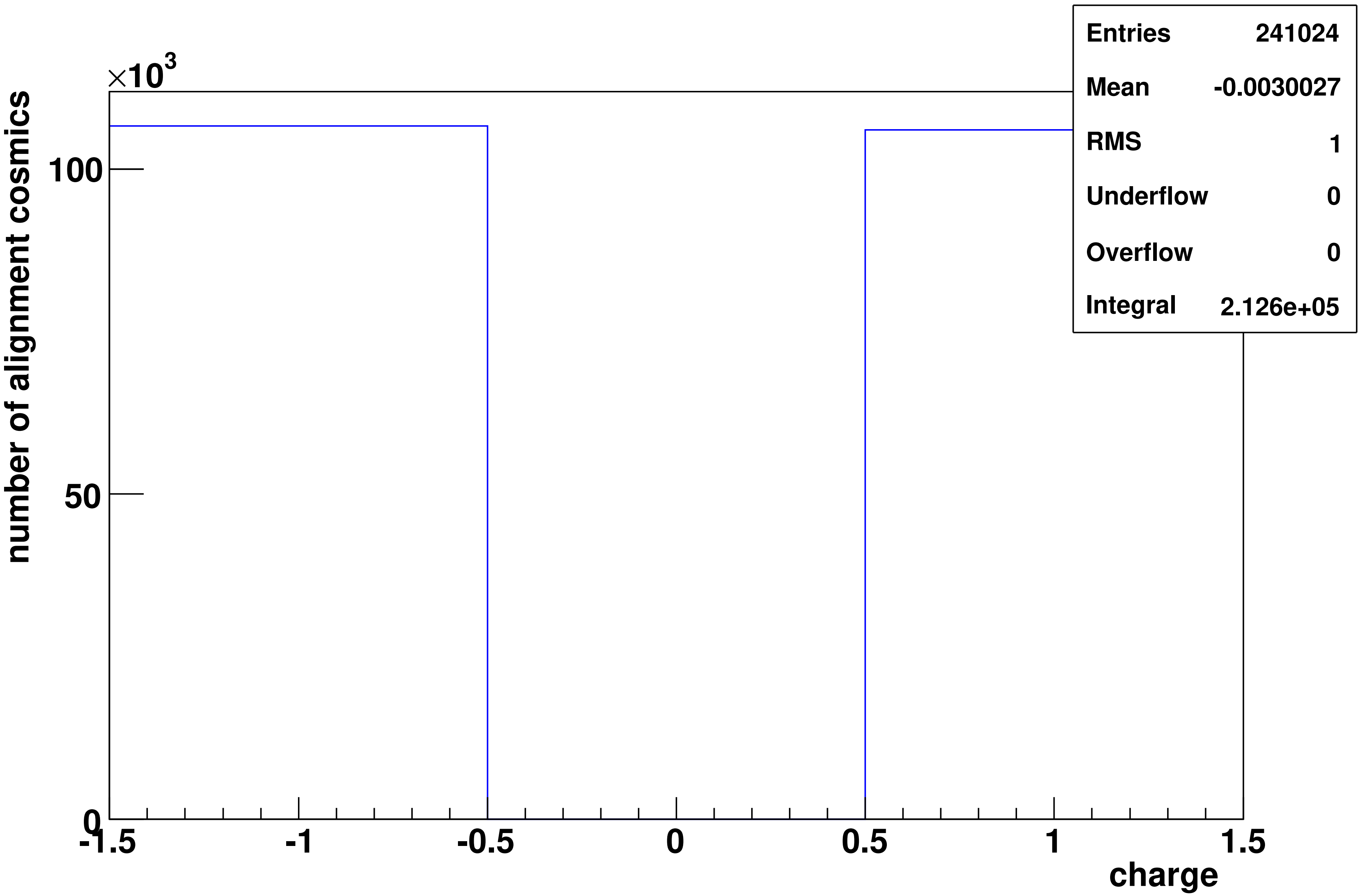
Entries 442420
Mean 7.7631e-06
RMS 7.1583e-05
Underflow 6923
Overflow 7546
Integral 4.2795e+05
number of cosmics
10000
5000
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature



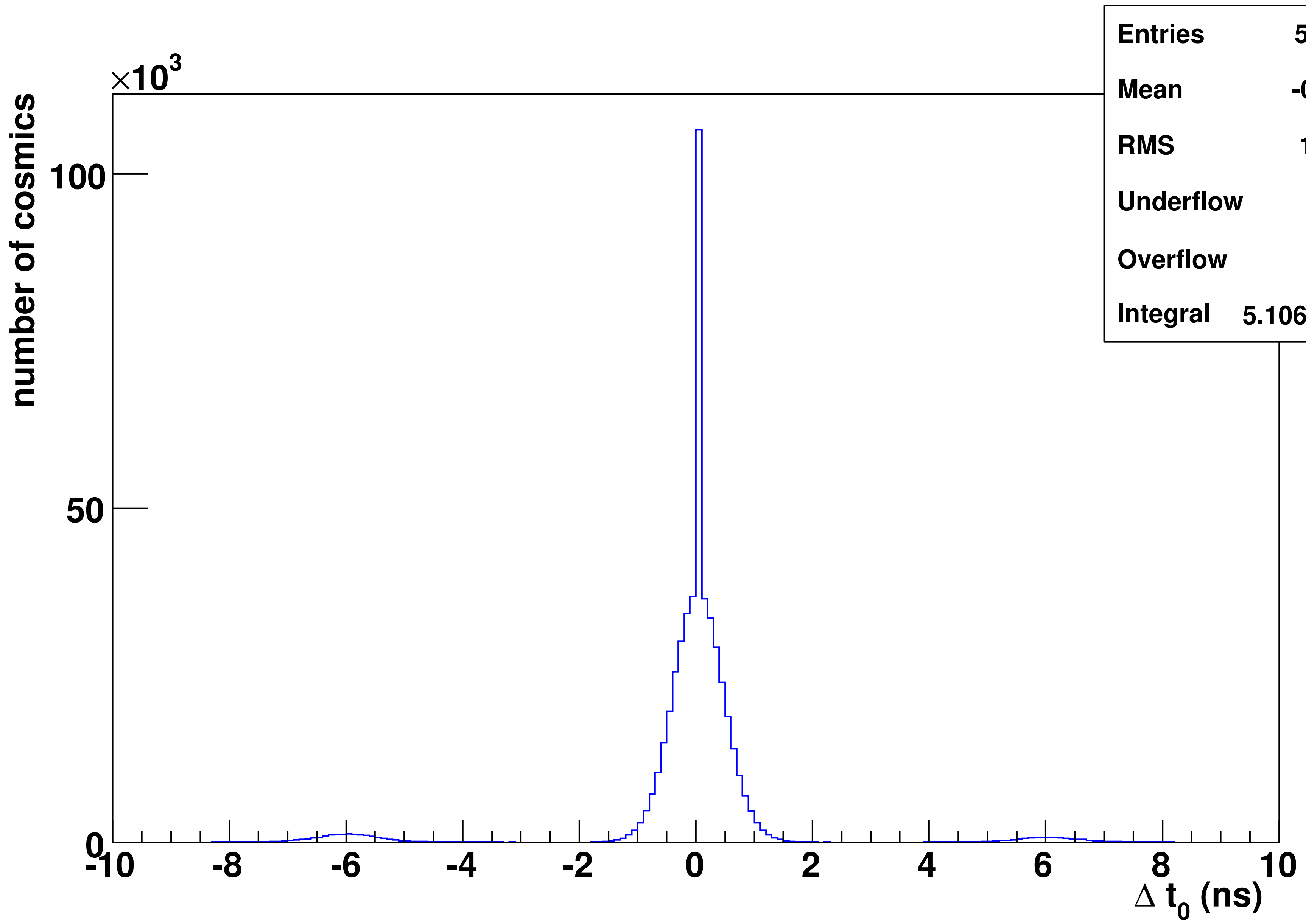
Entries 511400
Mean 0.11465
RMS 0.9934
Underflow 0
Overflow 0
Integral 5.114e+05
×10^3
number of cosmics
200
100
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

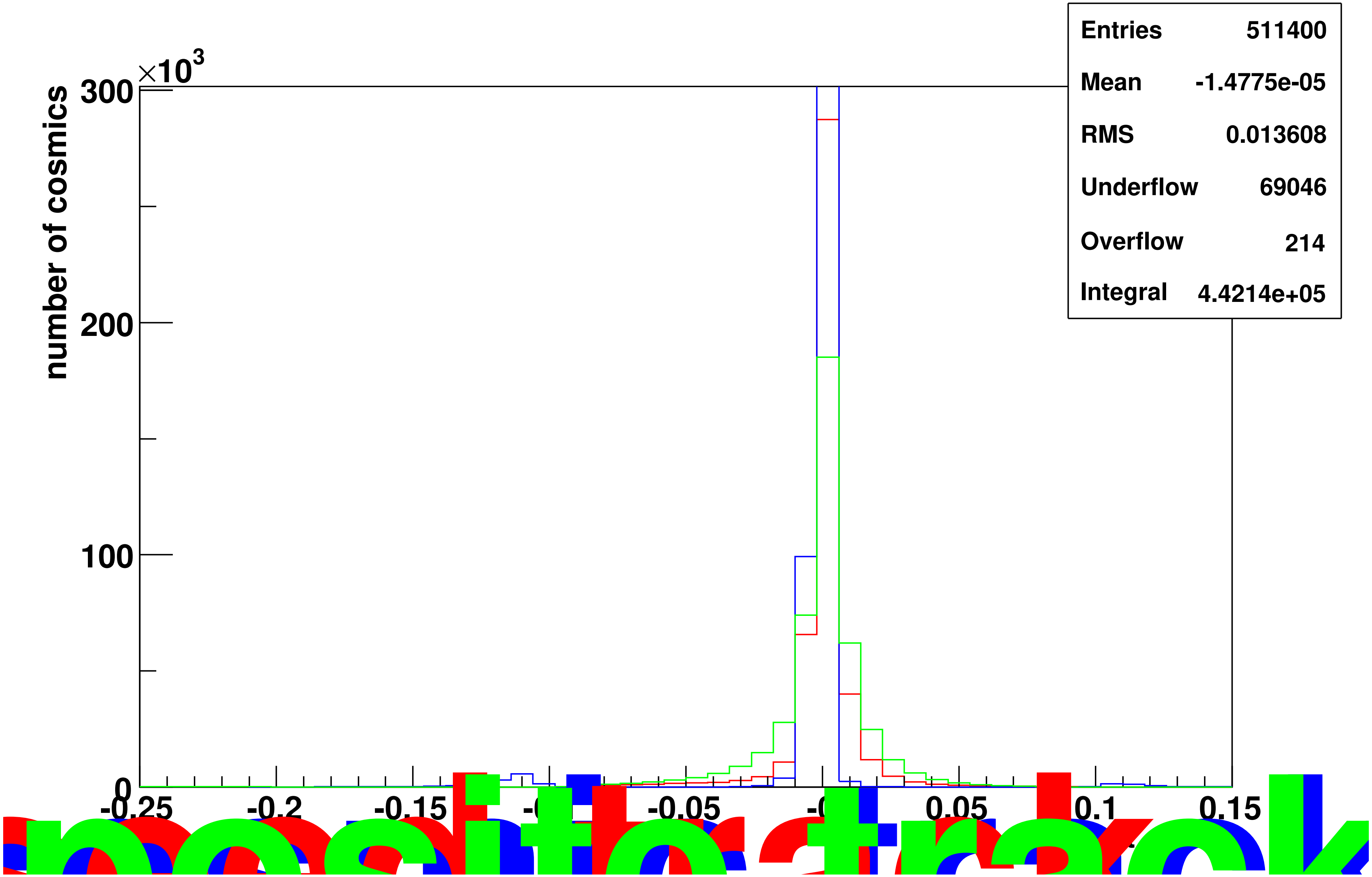


Entries 241024
Mean -4.4482e-08
RMS 6.7131e-05
Underflow 0
Overflow 0
Integral 2.1253e+05
number of alignment cosmics
6000
4000
2000
0
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10-3
curvature

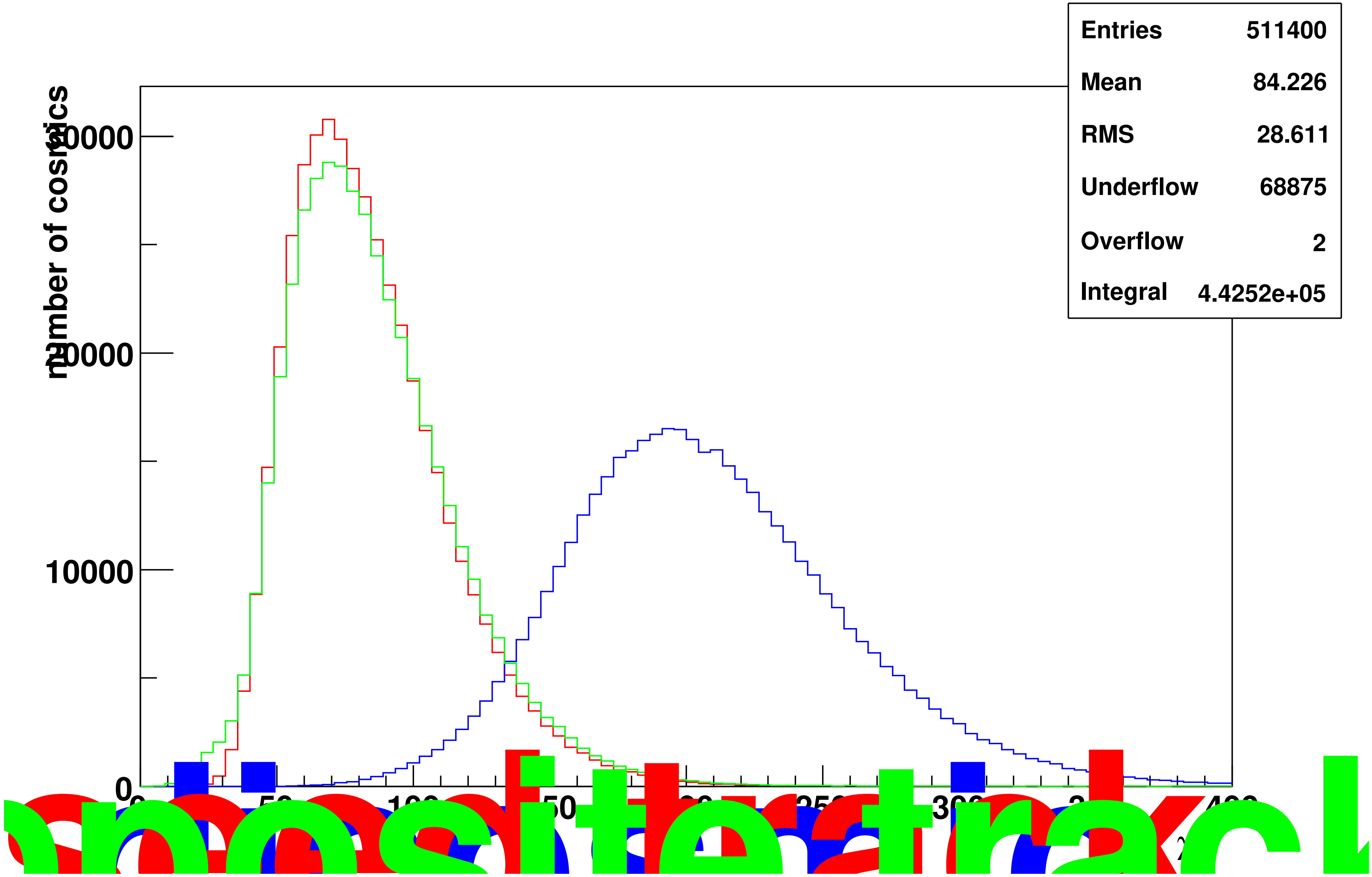


Entries 241024
Mean -0.0030027
RMS 1
Underflow 0
Overflow 0
Integral 2.126e+05
$\times 10^3$
100
50
0
number of alignment cosmics
-1.5
-1
-0.5
0
0.5
1
1.5
charge

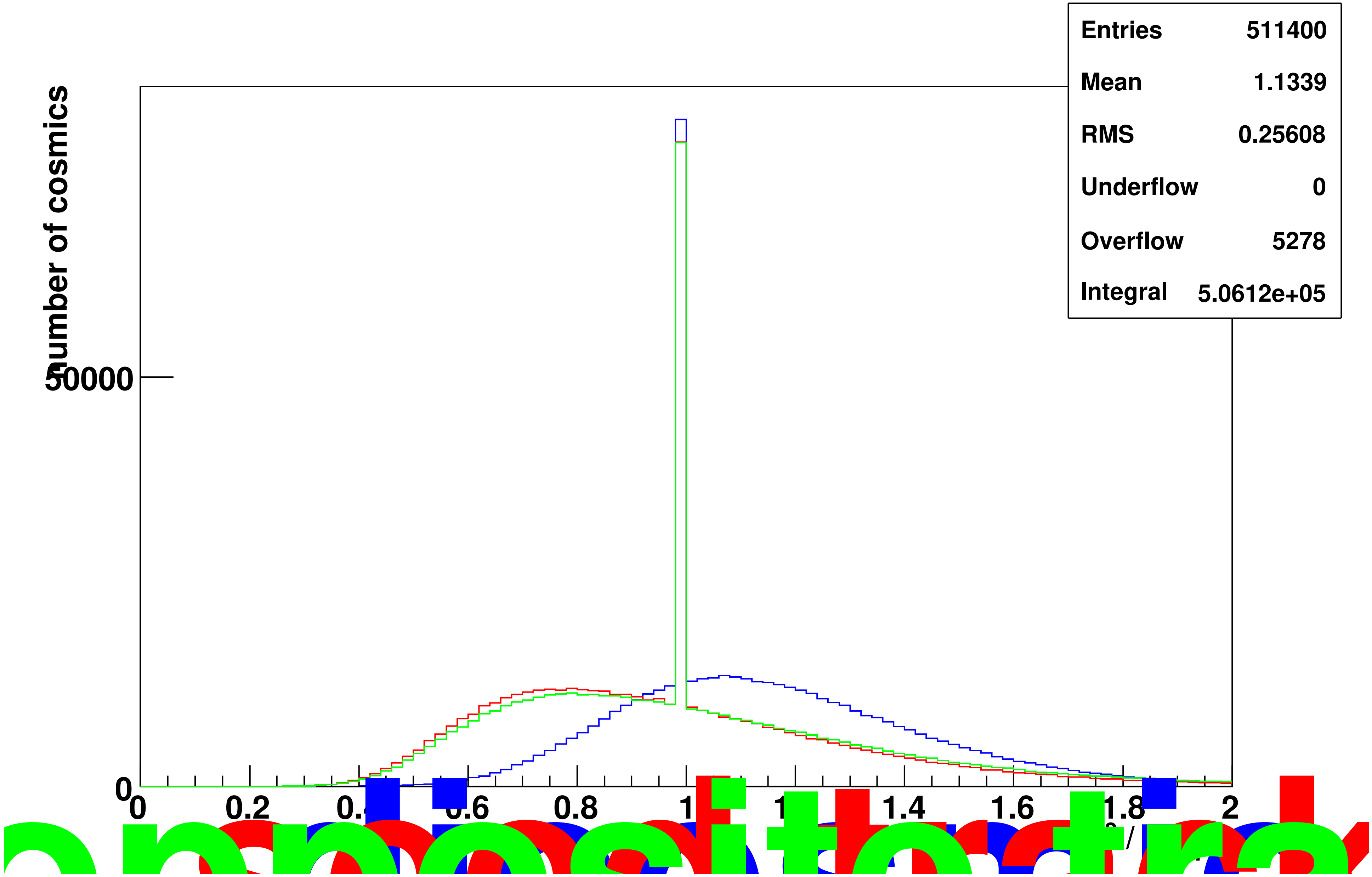

Entries 511400
Mean -0.0394
RMS 1.4694
Underflow 604
Overflow 148
Integral 5.1065e+05
$\times 10^3$
number of cosmics
100
50
0
-10
-8
-6
-4
-2
0
2
4
6
8
10
Δt_0 (ns)

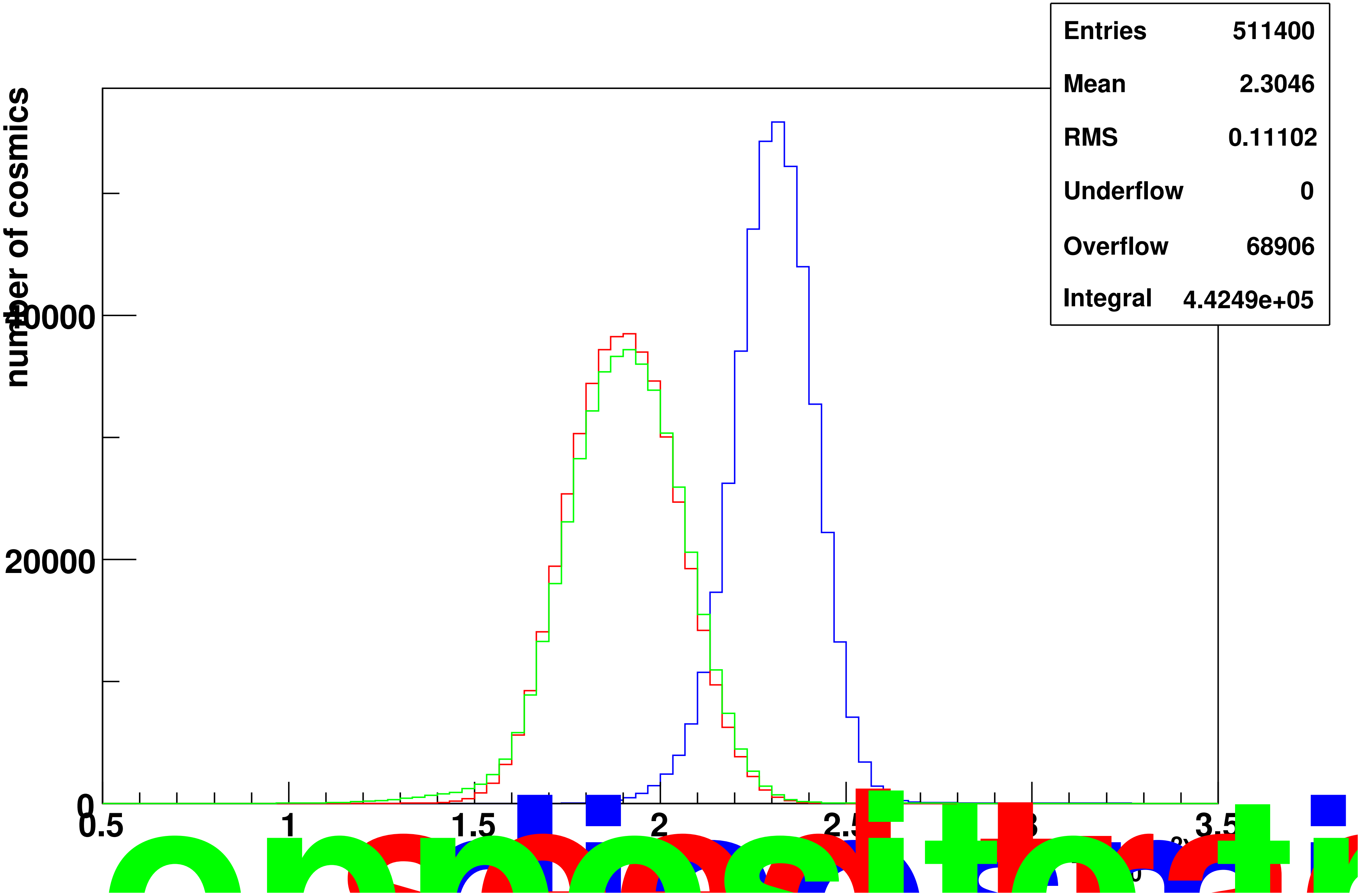


number of cosmics
×10^3
300
200
100
0
-0.25
-0.2
-0.15
-0.05
0.05
0.1
0.15
Entries 511400
Mean -1.4775e-05
RMS 0.013608
Underflow 69046
Overflow 214
Integral 4.4214e+05

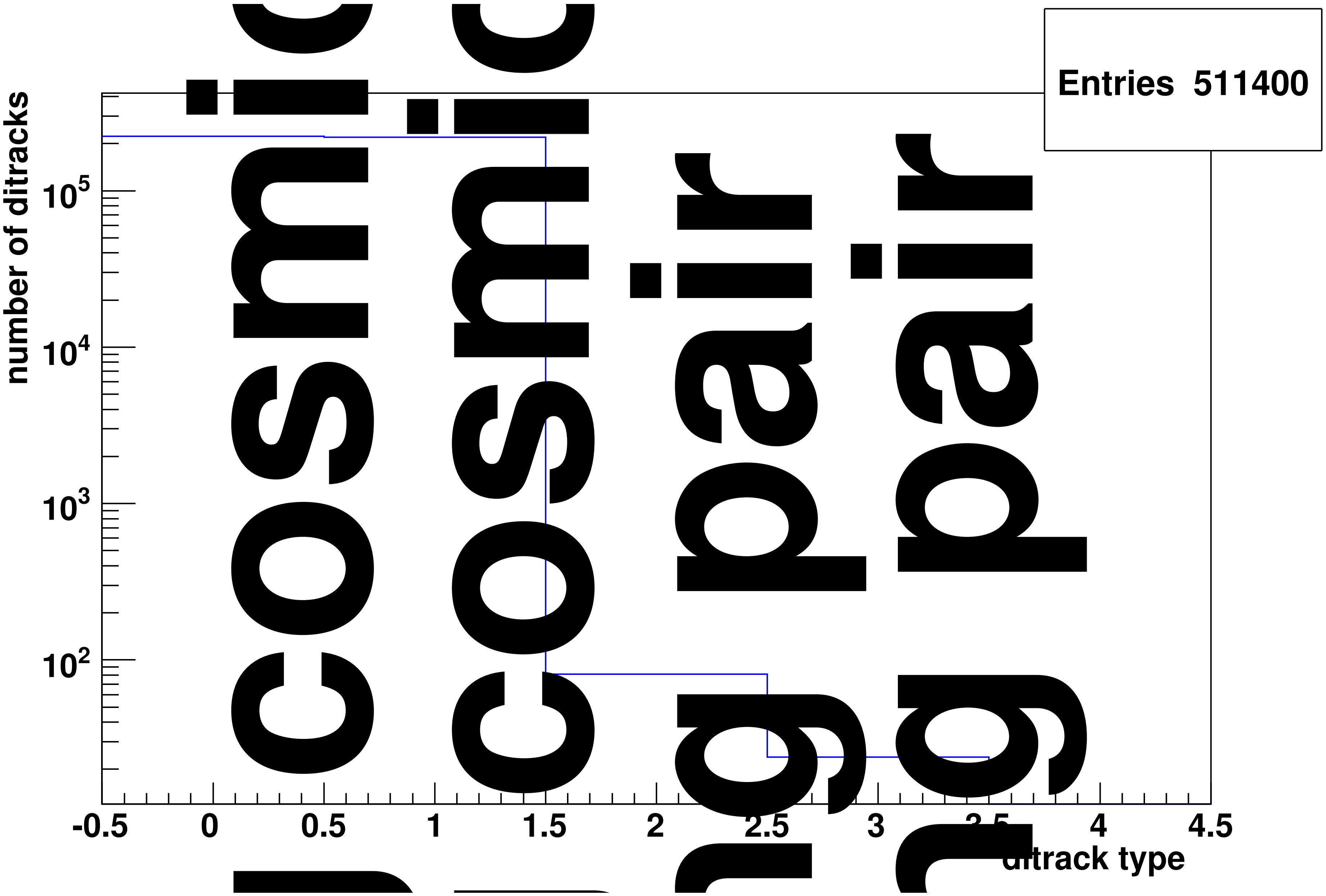


Entries 511400
Mean 84.226
RMS 28.611
Underflow 68875
Overflow 2
Integral 4.4252e+05
number of cosmics
10000
20000
30000
0

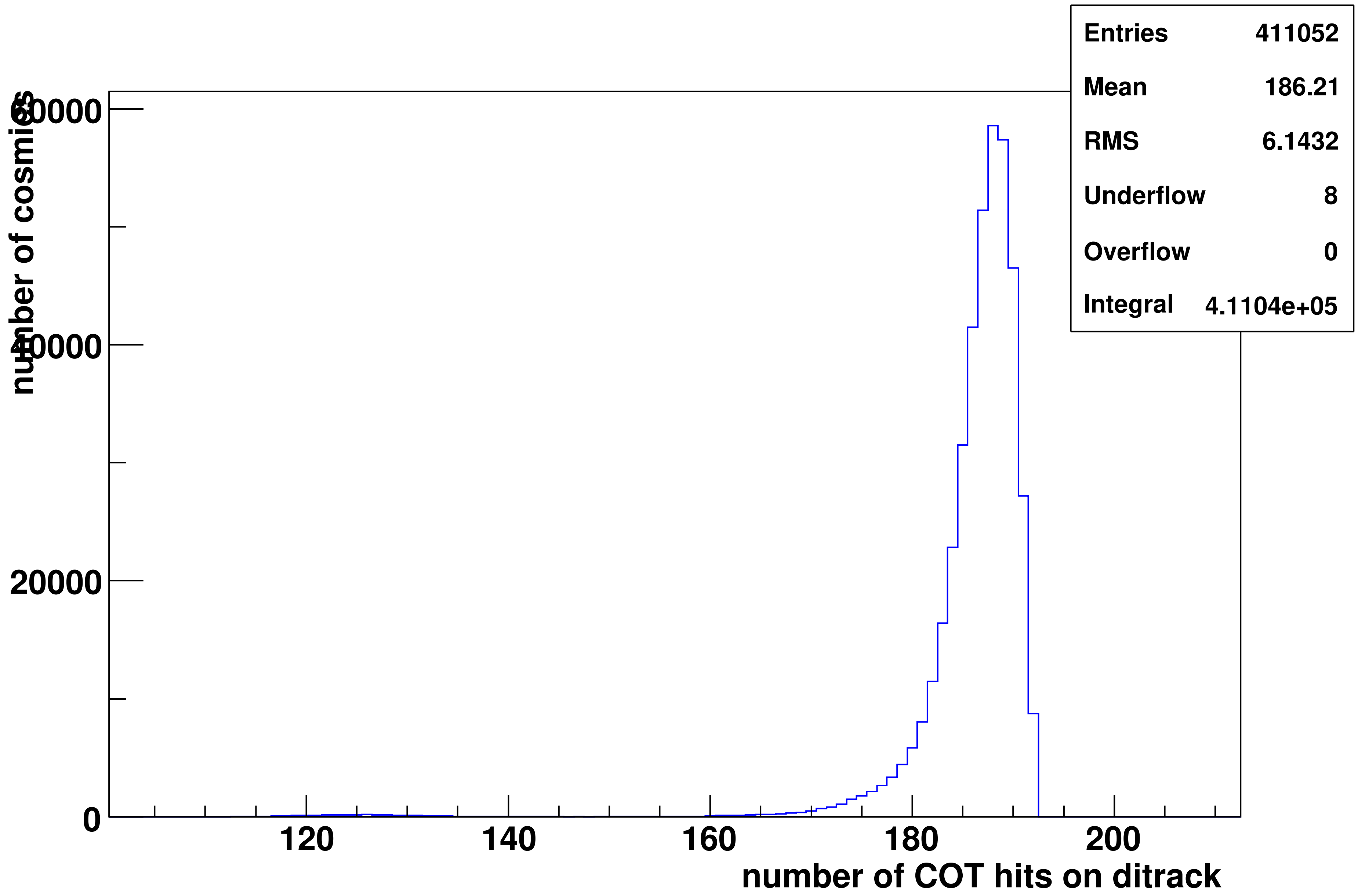




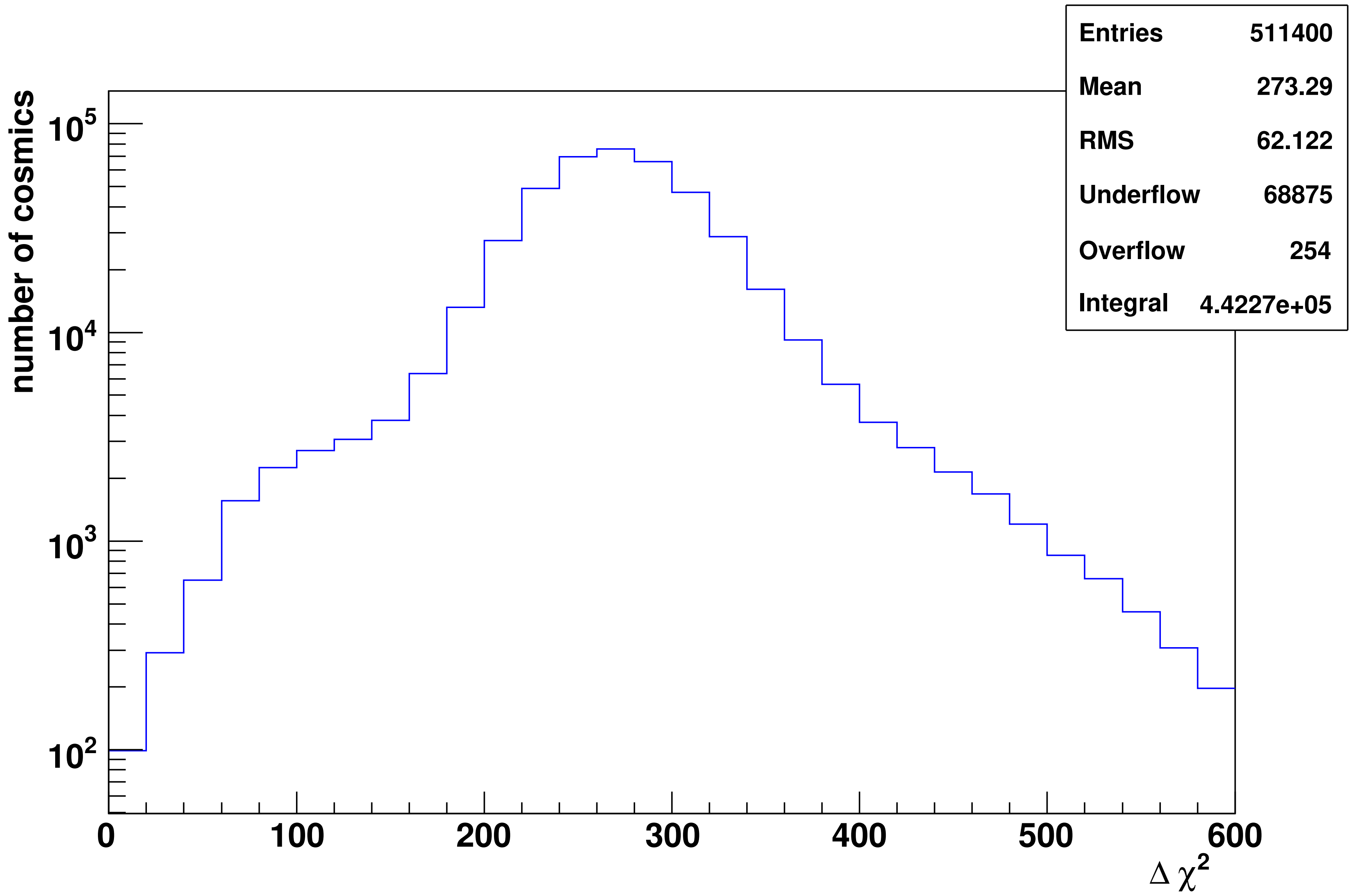
number of cosmics
40000
20000
0
0.5
1
1.5
2
3.5
Entries 511400
Mean 2.3046
RMS 0.11102
Underflow 0
Overflow 68906
Integral 4.4249e+05



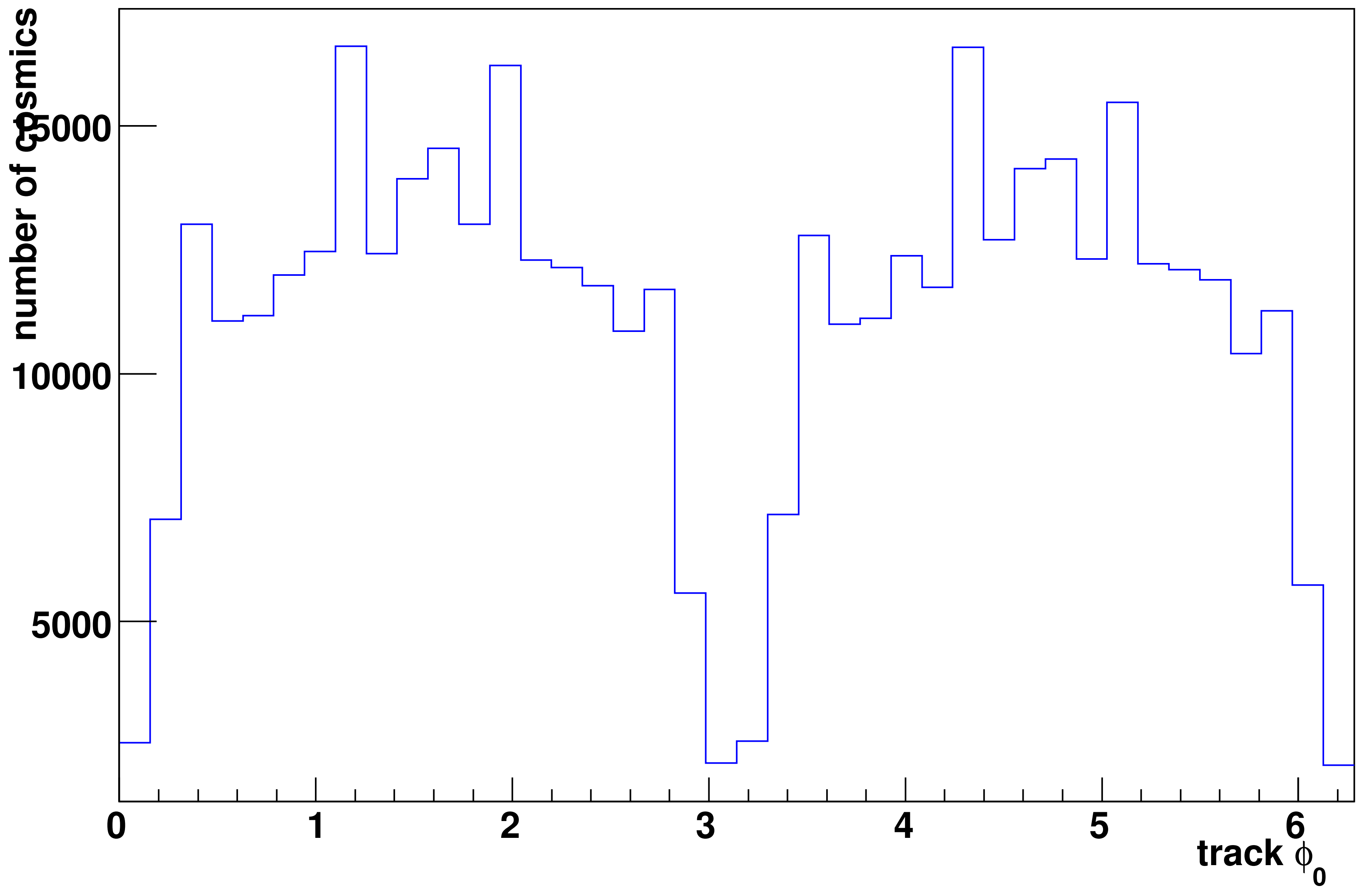
Entries 511400
number of ditracks
ditrack type
-0.5
0
0.5
1
1.5
2
2.5
3
4
4.5



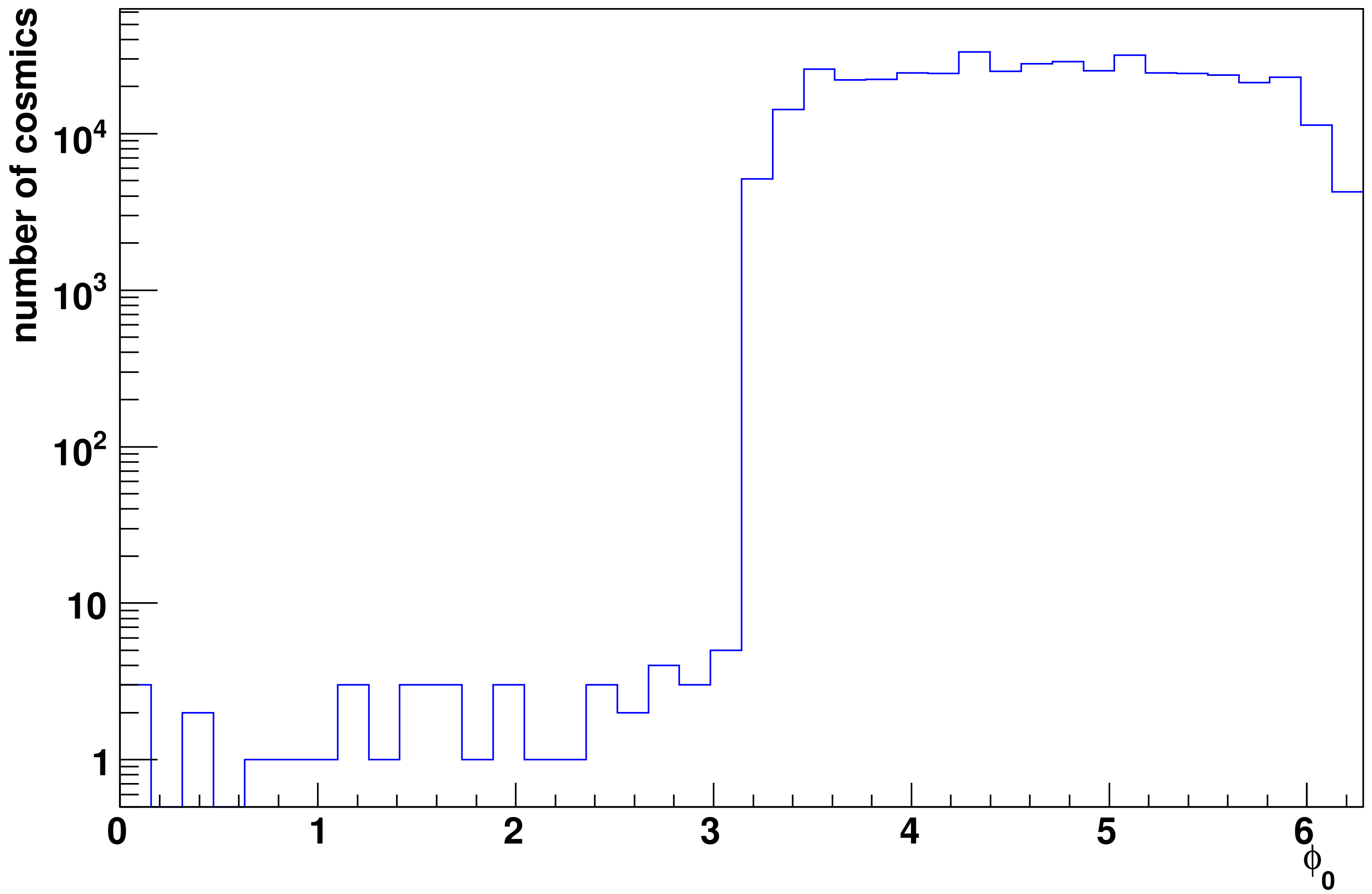
Entries 411052
Mean 186.21
RMS 6.1432
Underflow 8
Overflow 0
Integral 4.1104e+05
60000
40000
20000
0
120
140
160
180
200
number of COT hits on ditrack
number of cosmics



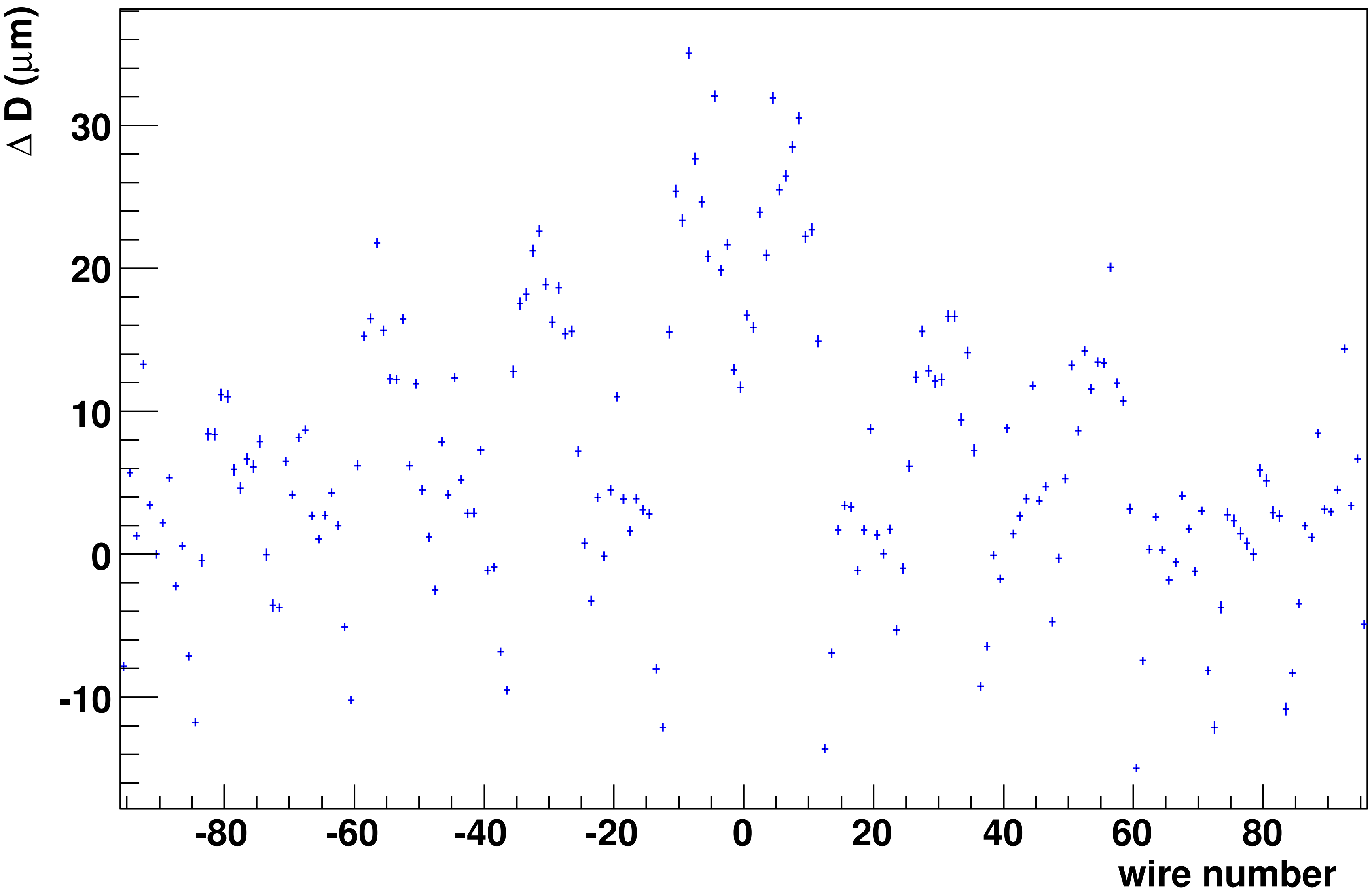
Entries 511400
Mean 273.29
RMS 62.122
Underflow 68875
Overflow 254
Integral 4.4227e+05
number of cosmics
10^5
10^4
10^3
10^2
0
100
200
300
400
500
600
$\Delta\chi^2$



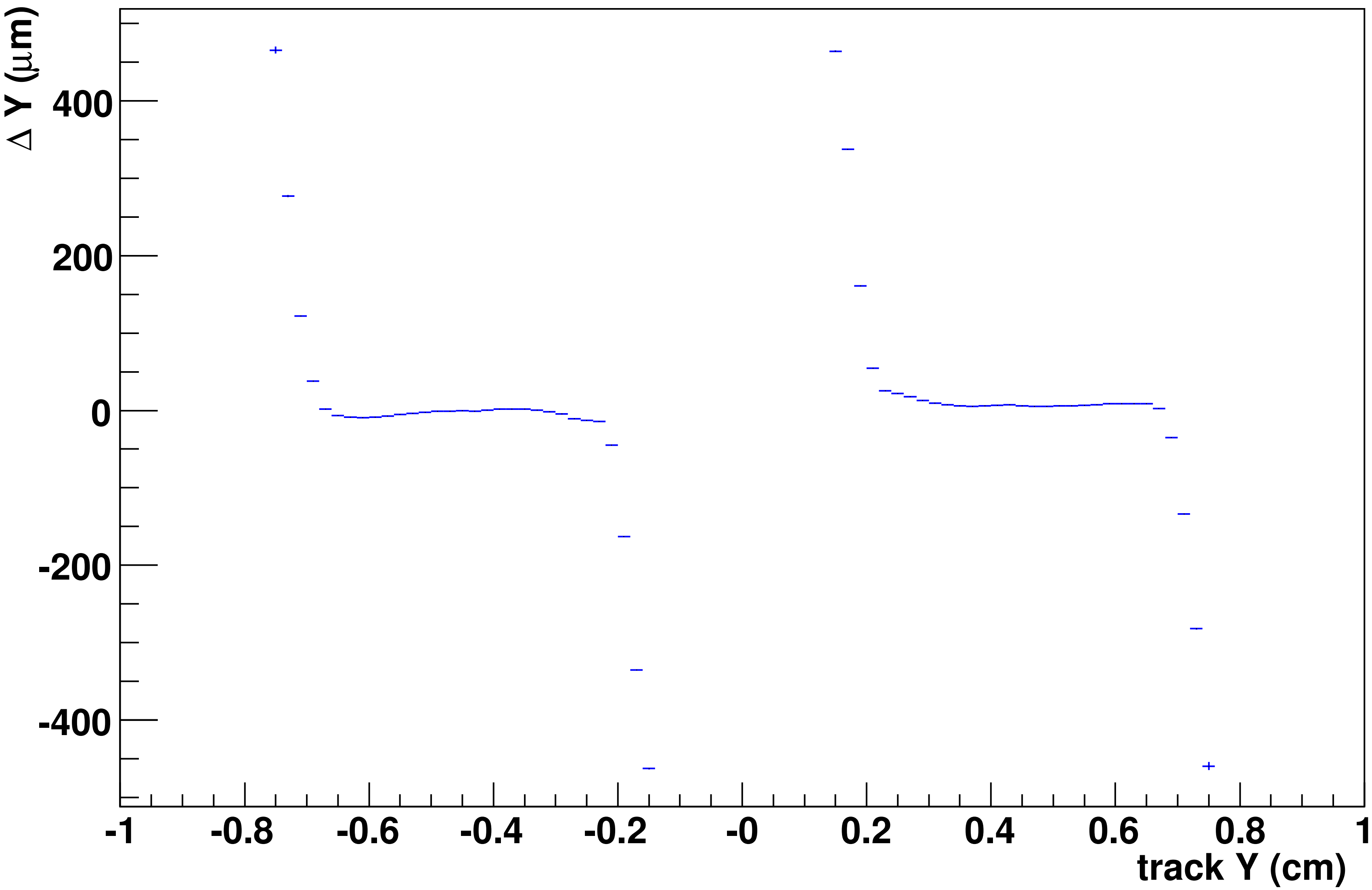
number of cosmics
15000
10000
5000
0
1
2
3
4
5
6
track ϕ_0



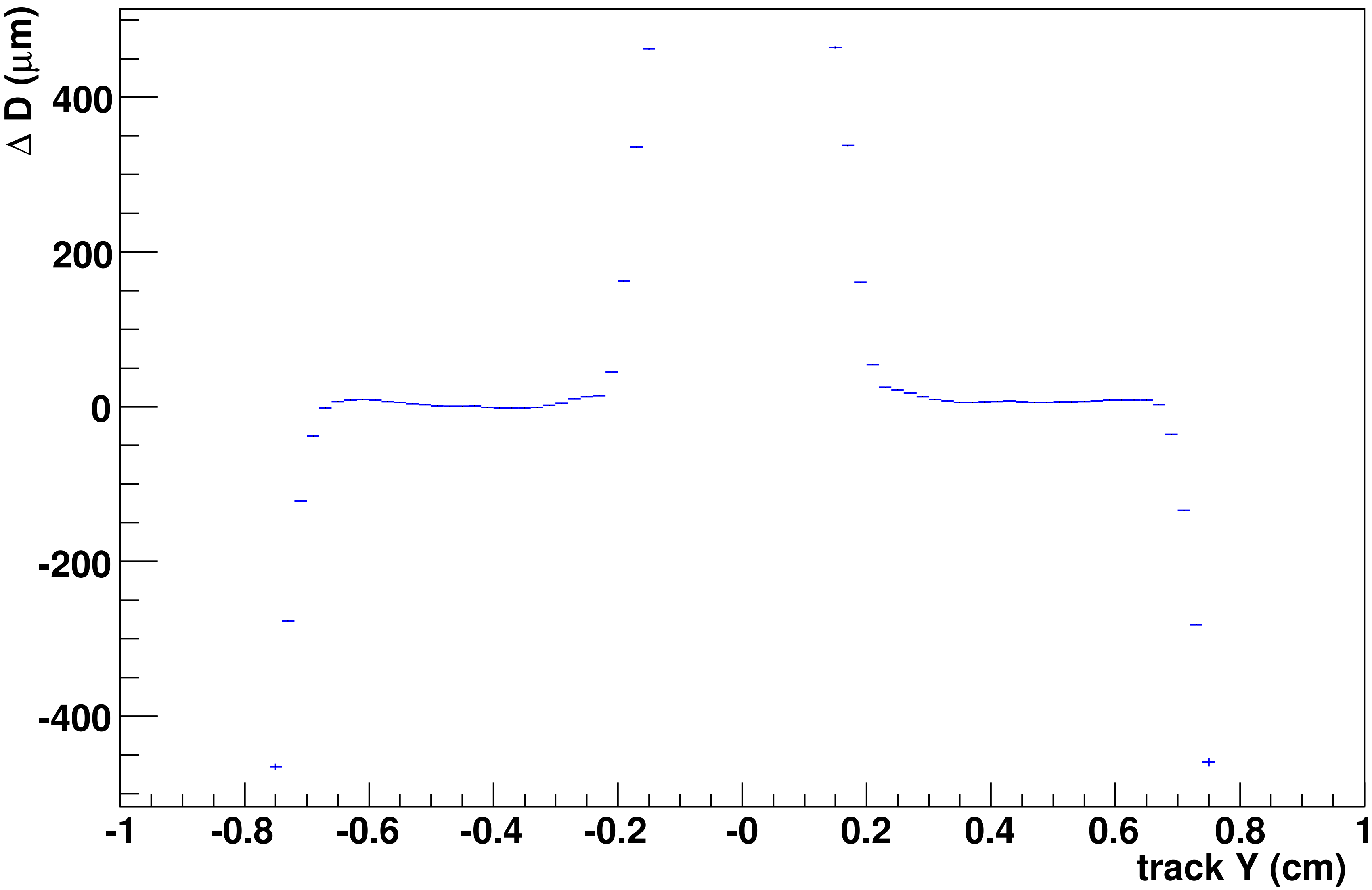
number of cosmics
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
ϕ_0



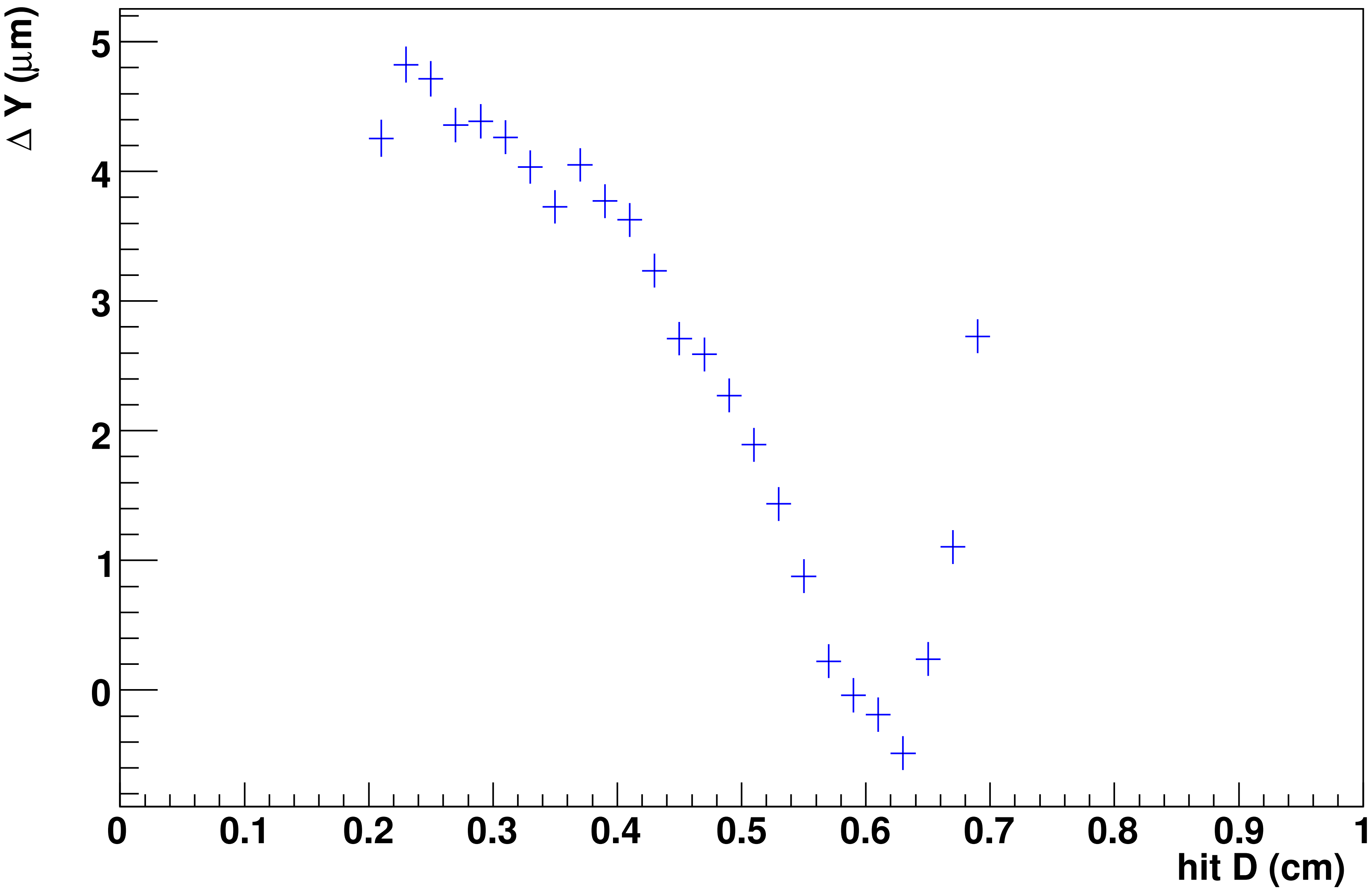
Δ D (μm)
30
20
10
0
-10
-80
-60
-40
-20
0
20
40
60
80
wire number



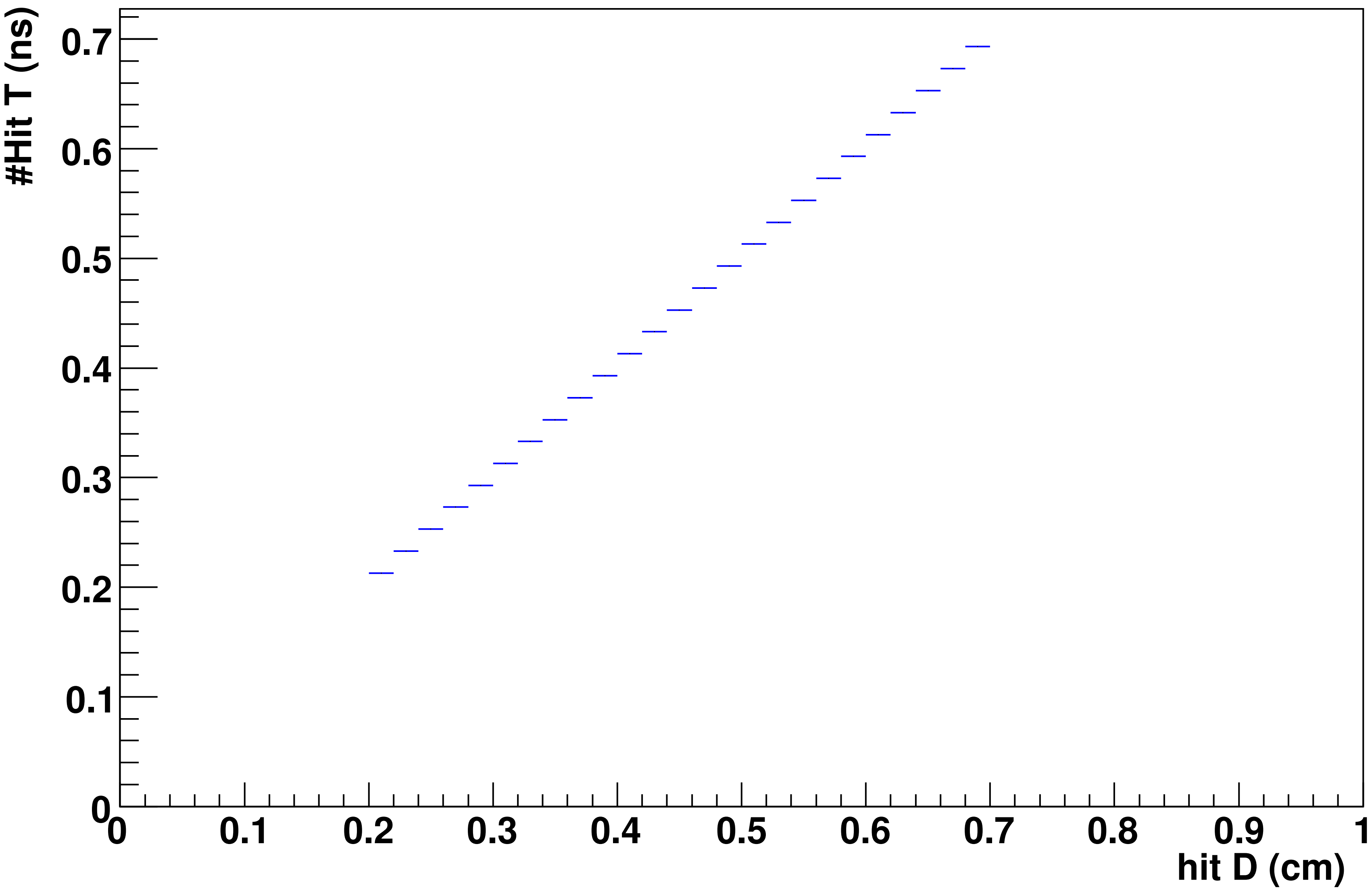
Δ Y (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)



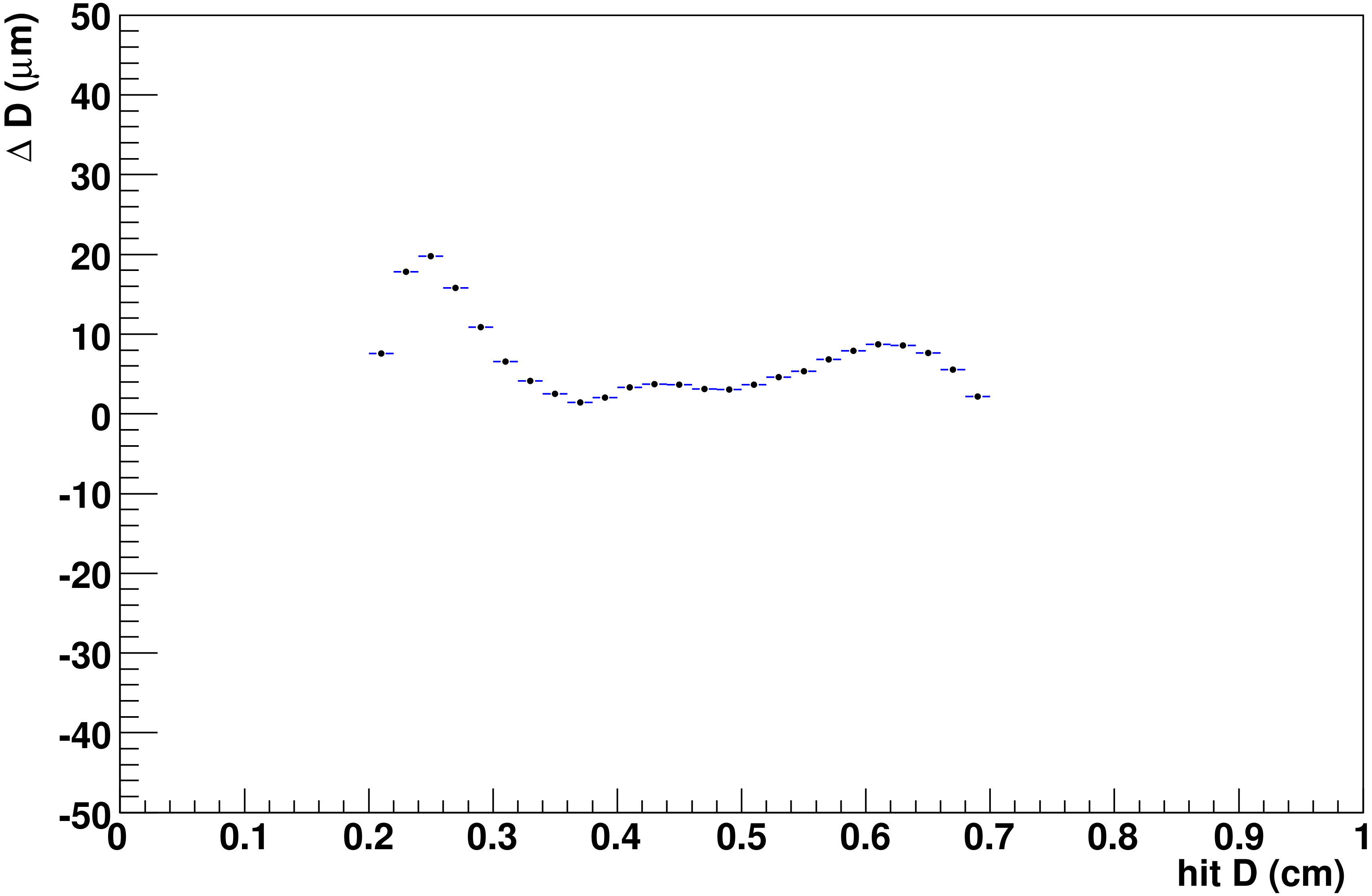
Δ D (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)



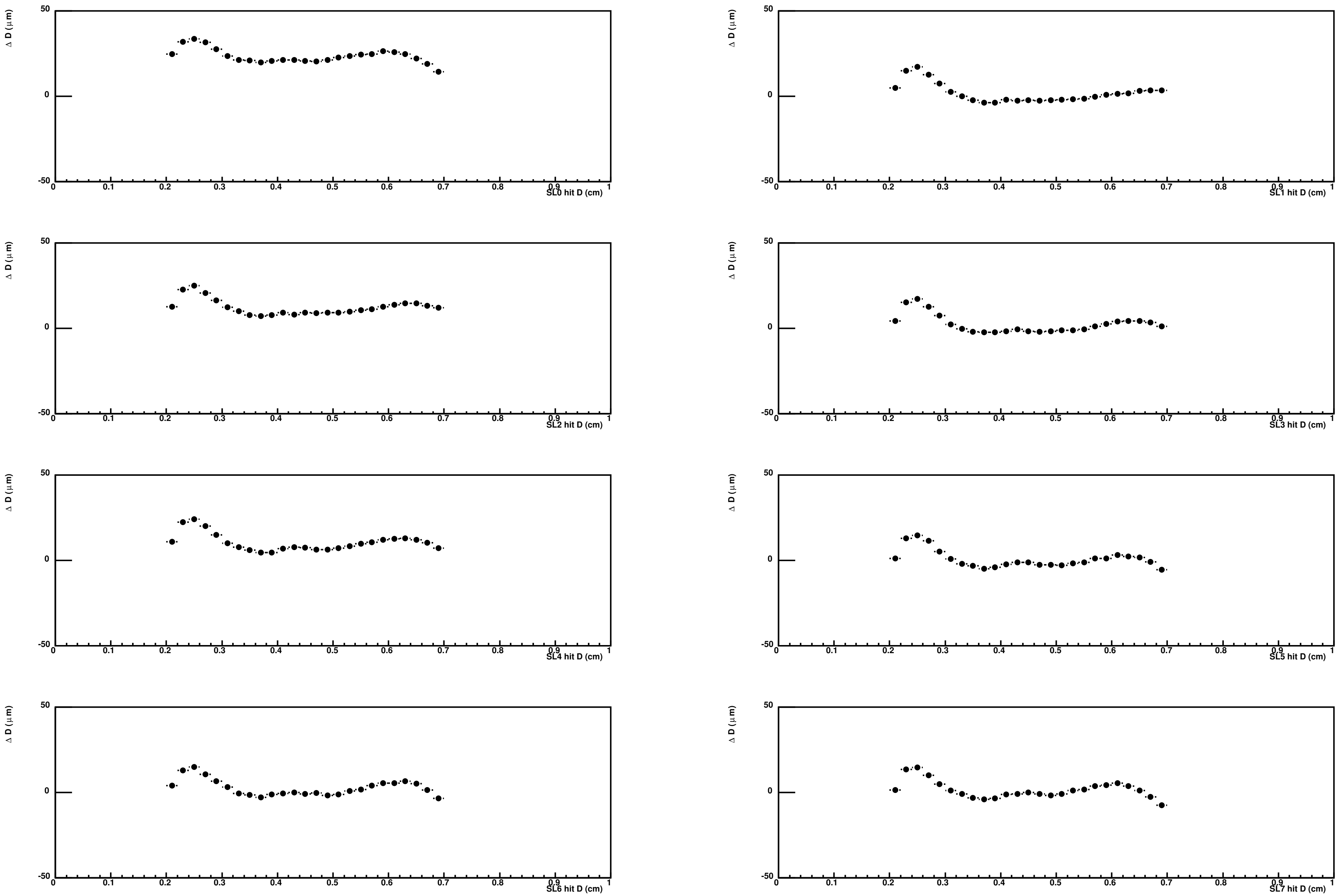
Δ Y (μm)
5
4
3
2
1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)



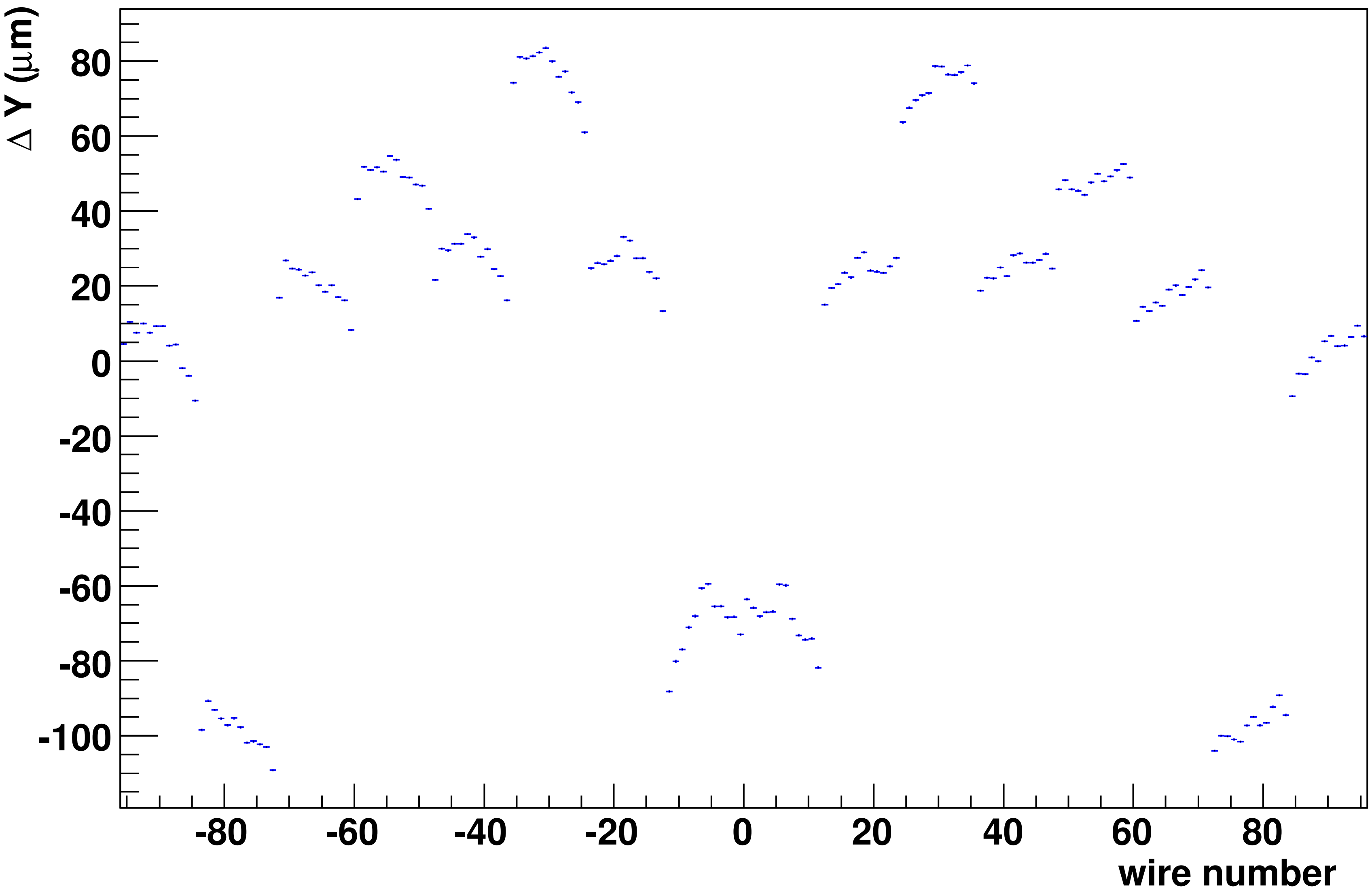
#Hit T (ns)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)



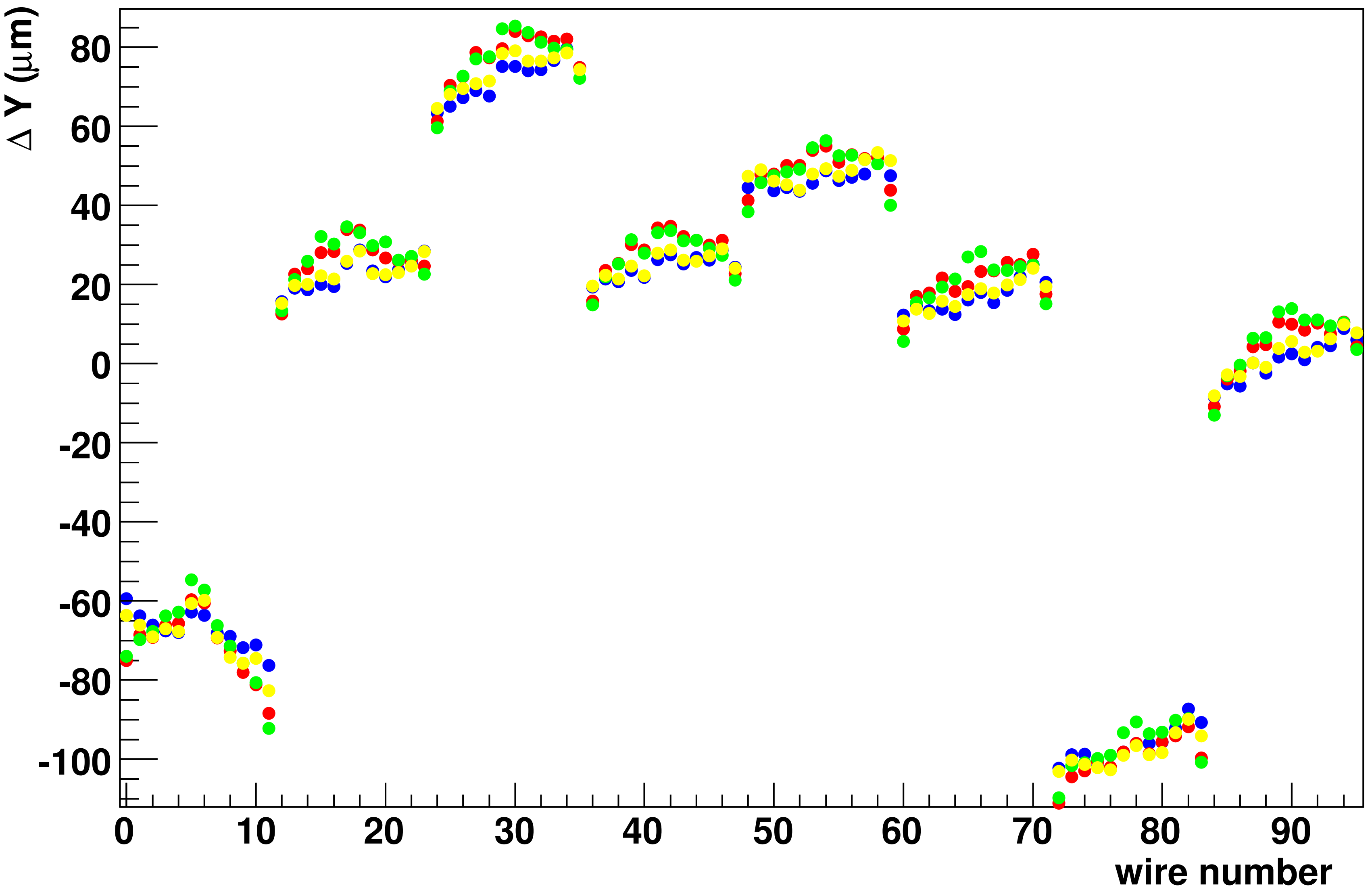
Δ D (μm)
50
40
30
20
10
0
-10
-20
-30
-40
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)



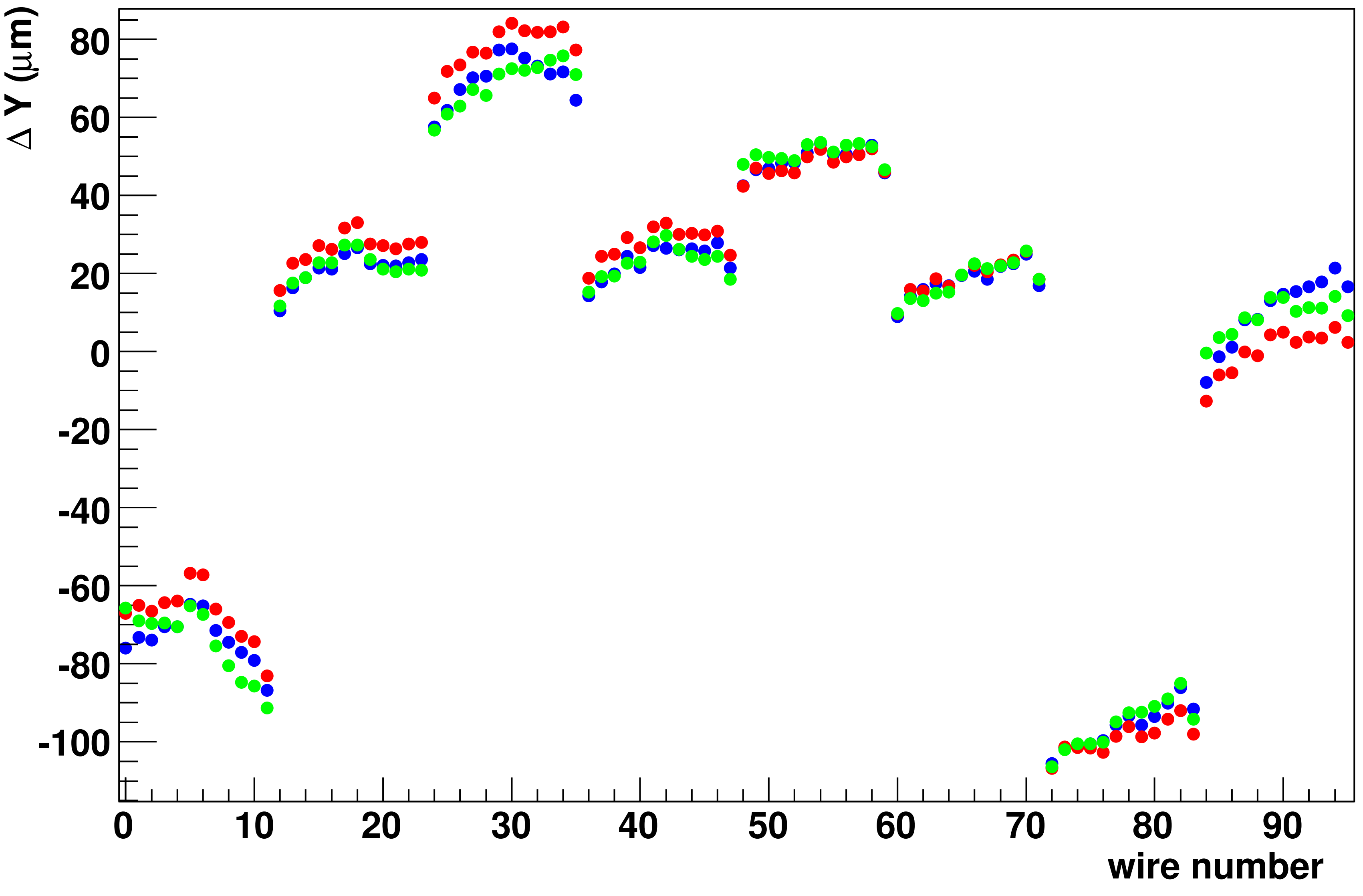
Δ D (μm)
50
0
-50
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
SL0 hit D (cm)
SL1 hit D (cm)
SL2 hit D (cm)
SL3 hit D (cm)
SL4 hit D (cm)
SL5 hit D (cm)
SL6 hit D (cm)
SL7 hit D (cm)



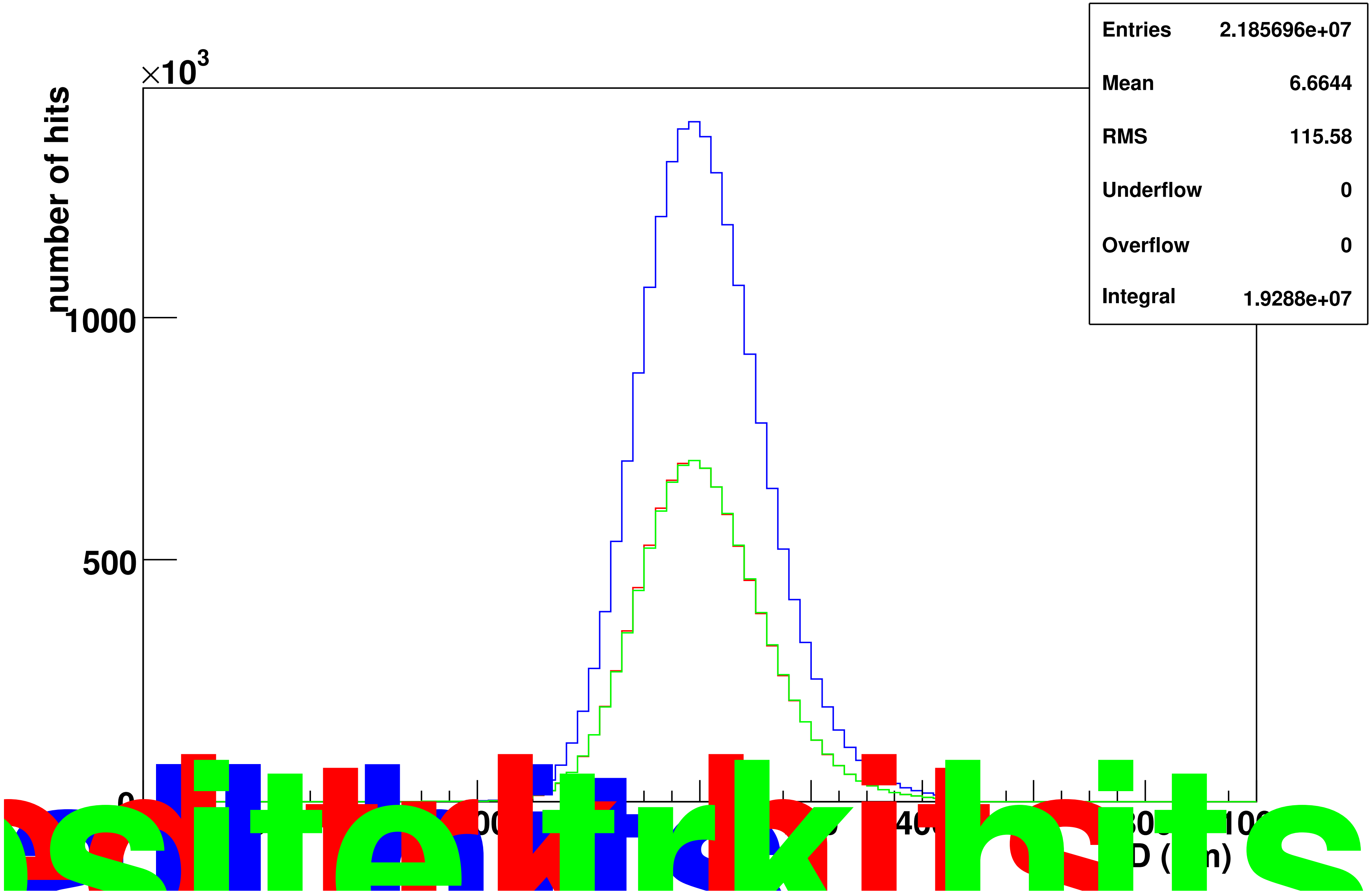
Δ Y (μm)
80
60
40
20
0
-20
-40
-60
-80
-100
-80
-60
-40
-20
0
20
40
60
80
wire number

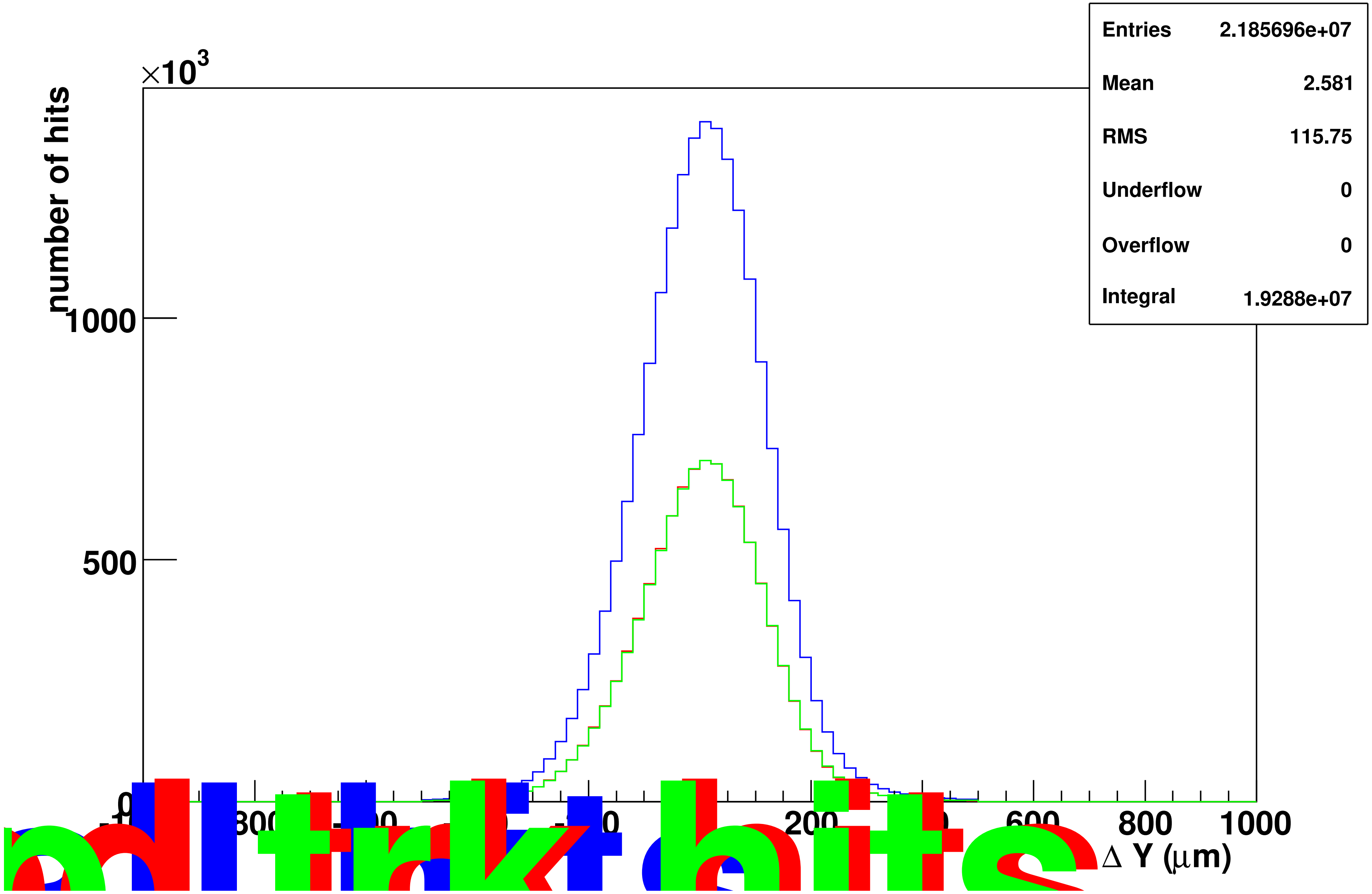


ΔY (μm)
80
60
40
20
0
-20
-40
-60
-80
-100
0
10
20
30
40
50
60
70
80
90
wire number

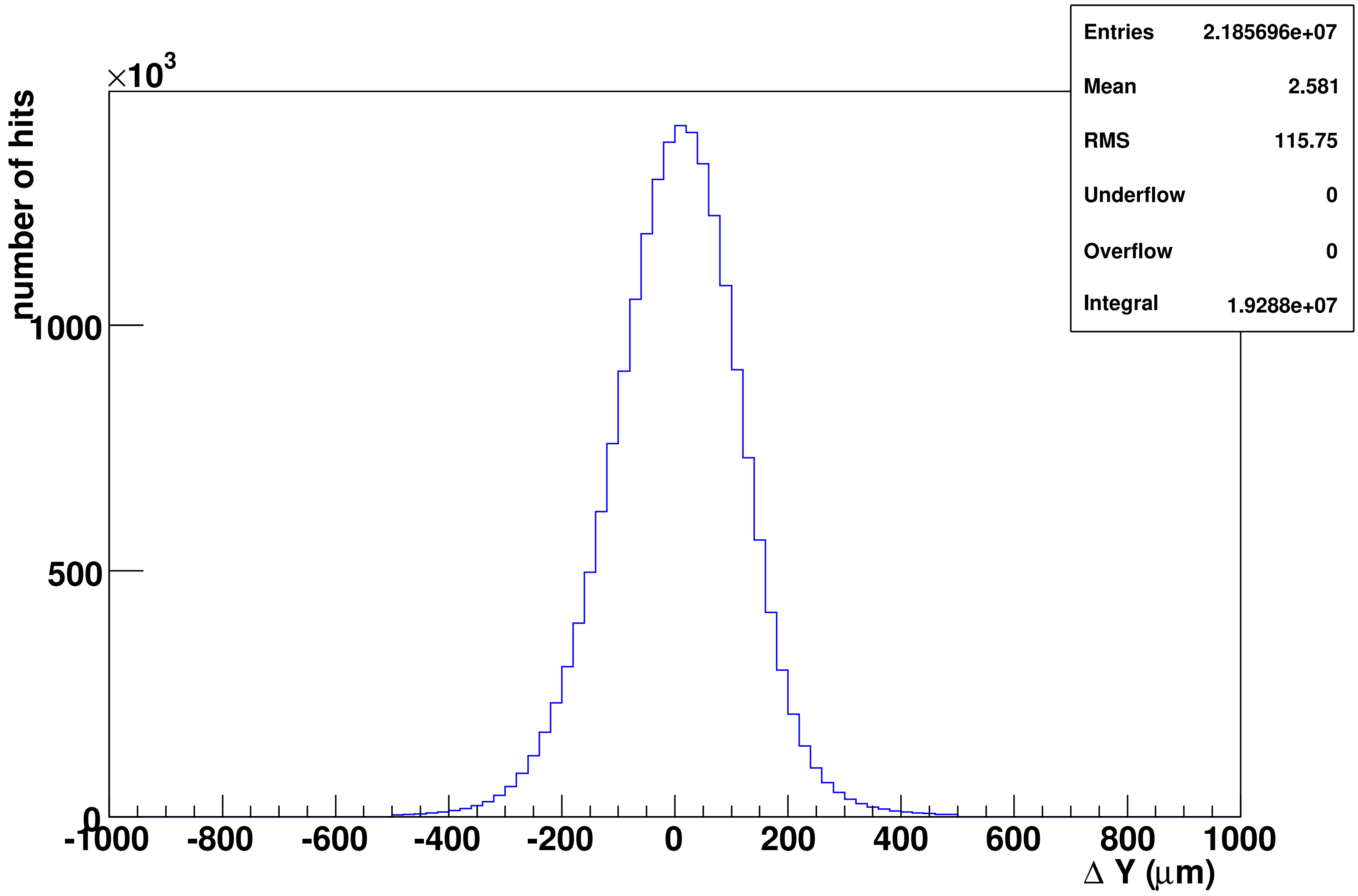


Δ Y (μm)
80
60
40
20
0
-20
-40
-60
-80
-100
0
10
20
30
40
50
60
70
80
90
wire number


Entries 2.185696e+07
Mean 6.6644
RMS 115.58
Underflow 0
Overflow 0
Integral 1.9288e+07
number of hits
×10^3
1000
500
0



Entries 2.185696e+07
Mean 2.581
RMS 115.75
Underflow 0
Overflow 0
Integral 1.9288e+07
number of hits
$\times 10^3$
1000
500
0
200
600
800
1000
Δ Y (μm)



Entries 2.185696e+07
Mean 2.581
RMS 115.75
Underflow 0
Overflow 0
Integral 1.9288e+07
$\times 10^3$
number of hits
1000
500
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000
Δ Y (μm)