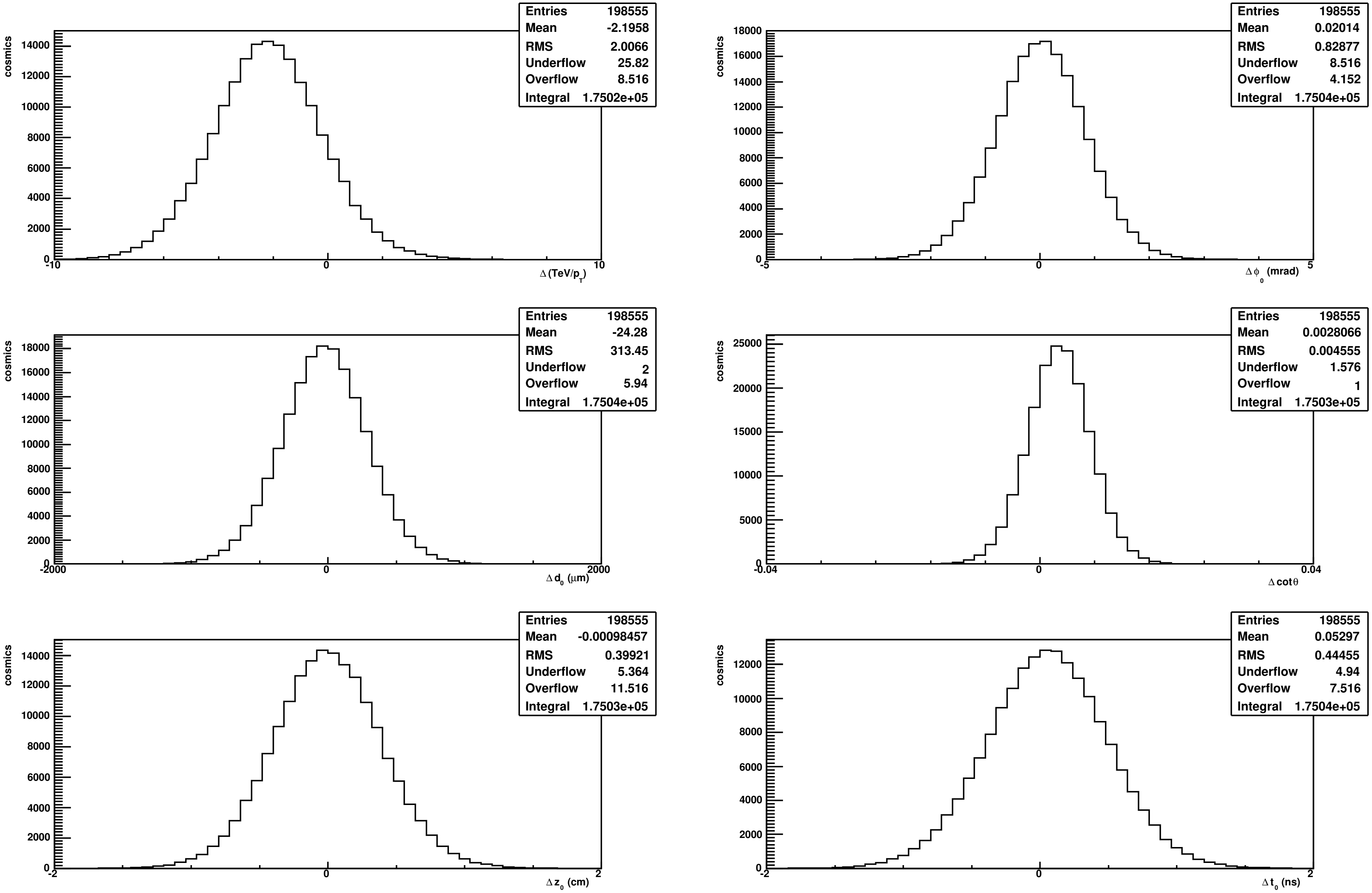
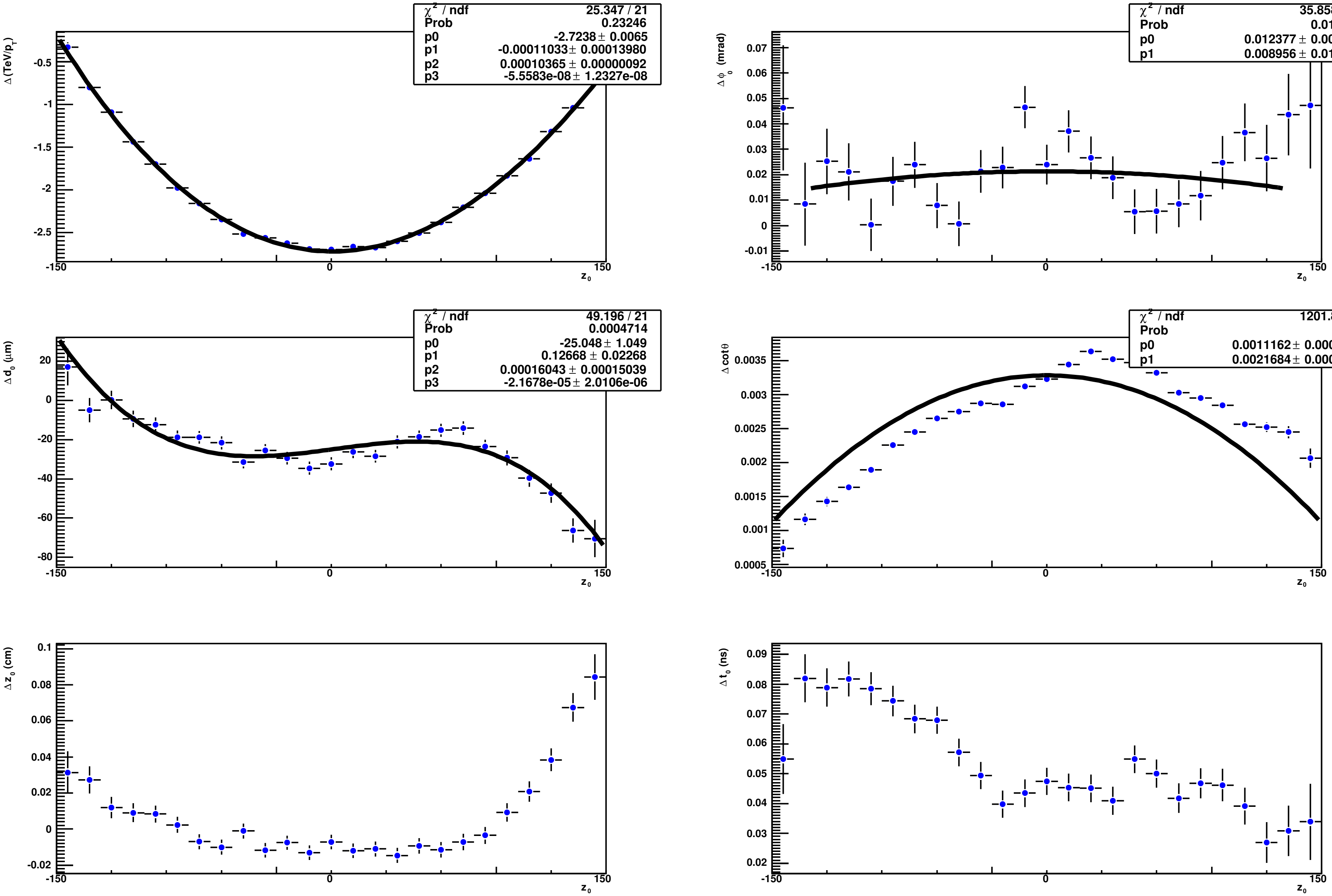
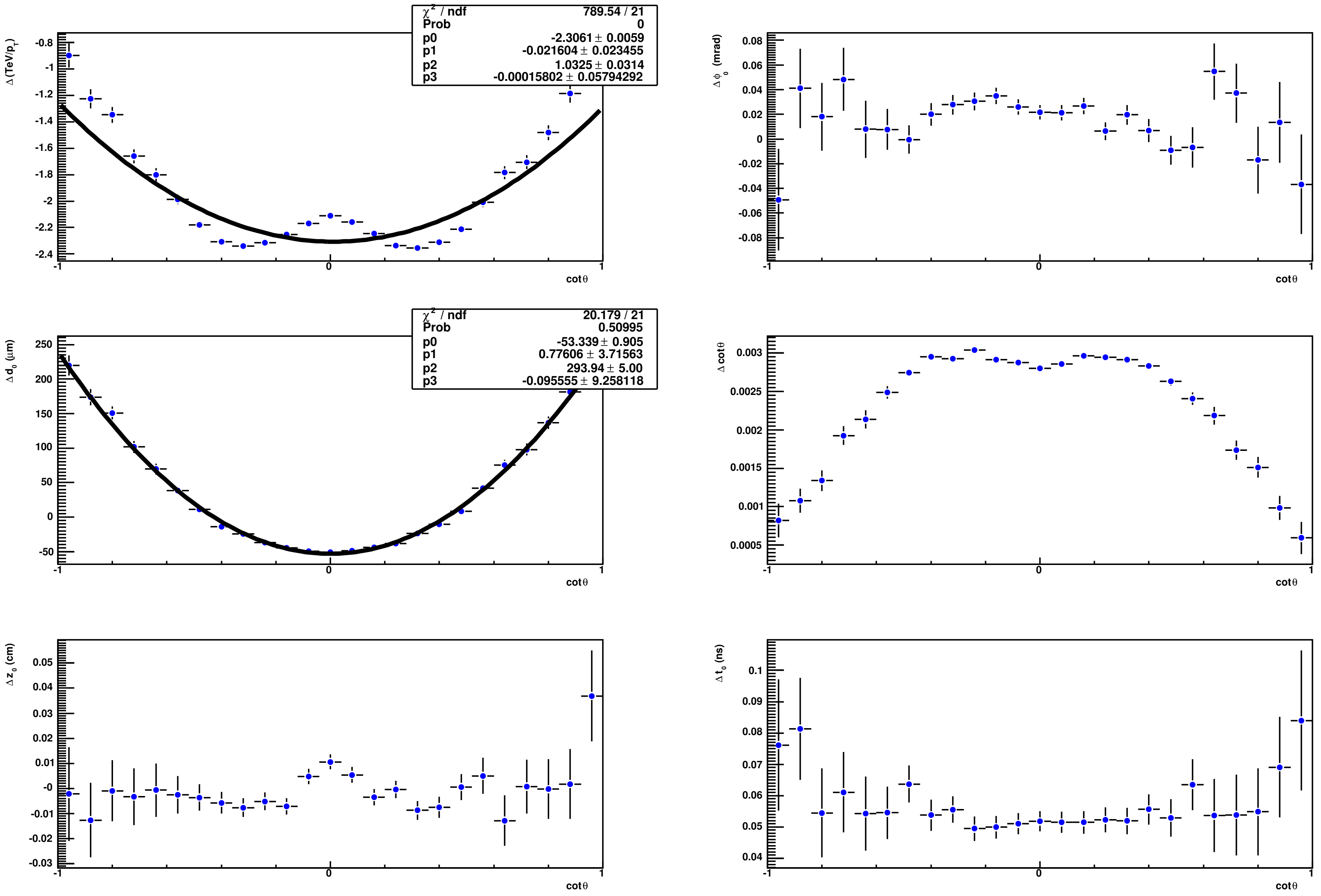
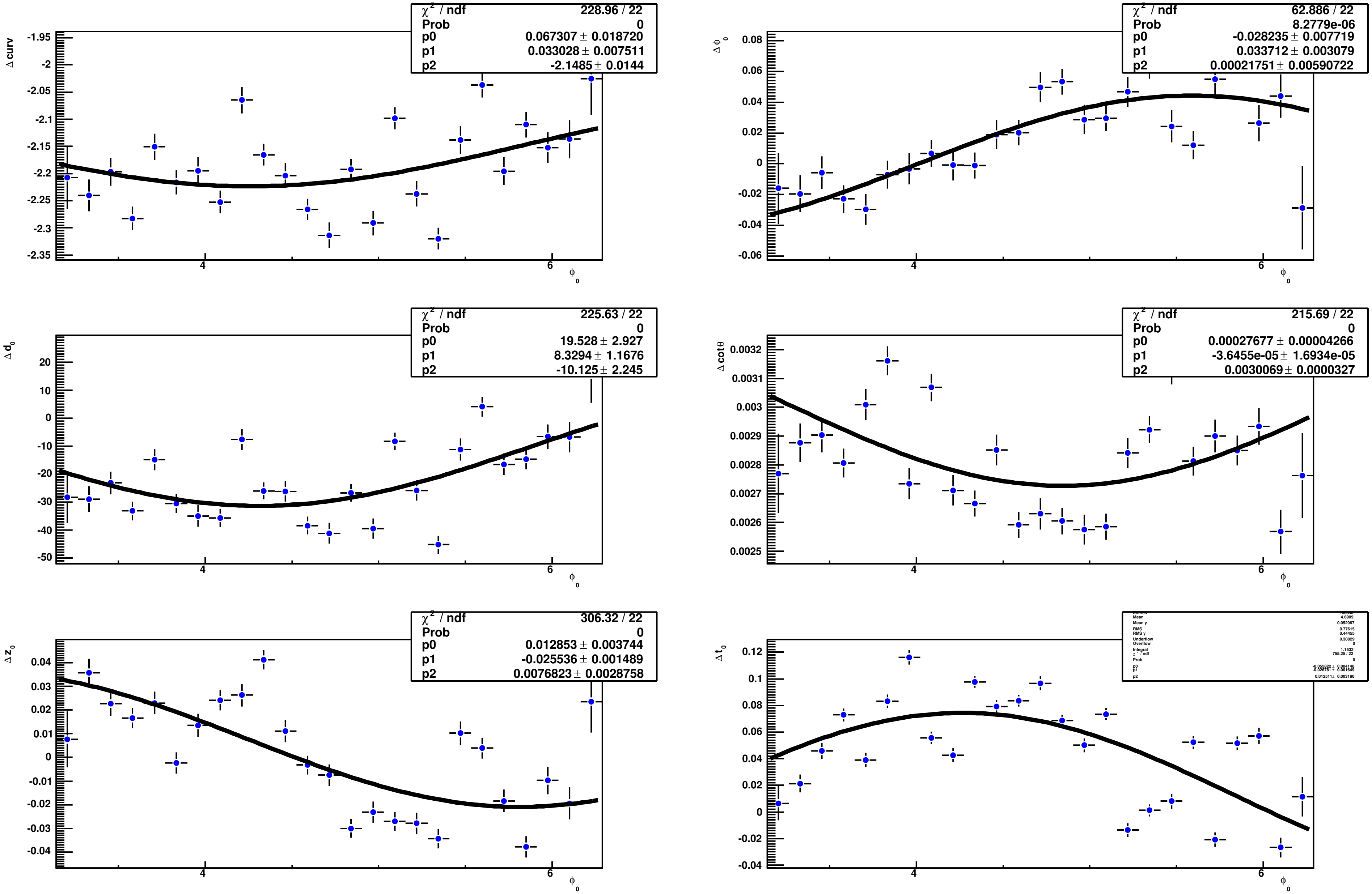

Entries 198555
Mean -2.1958
RMS 2.0066
Underflow 25.82
Overflow 8.516
Integral 1.7502e+05
cosmics
Δ(TeV/p_T)
Entries 198555
Mean 0.02014
RMS 0.82877
Underflow 8.516
Overflow 4.152
Integral 1.7504e+05
cosmics
Δφ_0 (mrad)
Entries 198555
Mean -24.28
RMS 313.45
Underflow 2
Overflow 5.94
Integral 1.7504e+05
cosmics
Δd_0 (μm)
Entries 198555
Mean 0.0028066
RMS 0.004555
Underflow 1.576
Overflow 1
Integral 1.7503e+05
cosmics
Δcotθ
Entries 198555
Mean -0.00098457
RMS 0.39921
Underflow 5.364
Overflow 11.516
Integral 1.7503e+05
cosmics
Δz_0 (cm)
Entries 198555
Mean 0.05297
RMS 0.44455
Underflow 4.94
Overflow 7.516
Integral 1.7504e+05
cosmics
Δt_0 (ns)



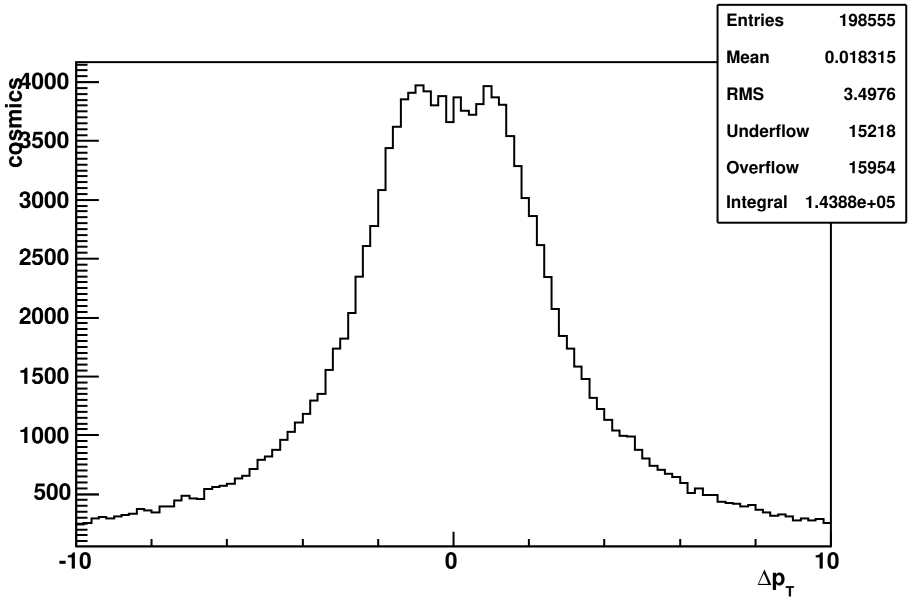
χ² / ndf 25.347 / 21
Prob 0.23246
p0 -2.7238 ± 0.0065
p1 -0.00011033 ± 0.00013980
p2 0.00010365 ± 0.00000092
p3 -5.5583e-08 ± 1.2327e-08
Δ(TeV/p_T)
χ² / ndf 35.858 / 19
Prob 0.010988
p0 0.012377 ± 0.009137
p1 0.008956 ± 0.010899
Δφ_0 (mrad)
χ² / ndf 49.196 / 21
Prob 0.0004714
p0 -25.048 ± 1.049
p1 0.12668 ± 0.02268
p2 0.00016043 ± 0.00015039
p3 -2.1678e-05 ± 2.0106e-06
Δd_0 (μm)
χ² / ndf 1201.8 / 23
Prob 0
p0 0.0011162 ± 0.0000396
p1 0.0021684 ± 0.0000486
Δcotθ
Δz_0 (cm)
Δt_0 (ns)
z_0

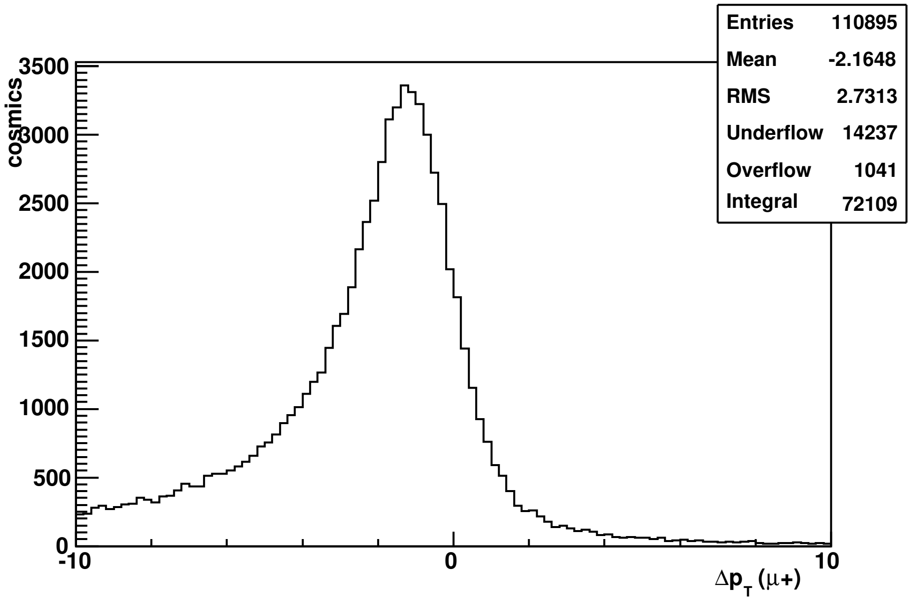


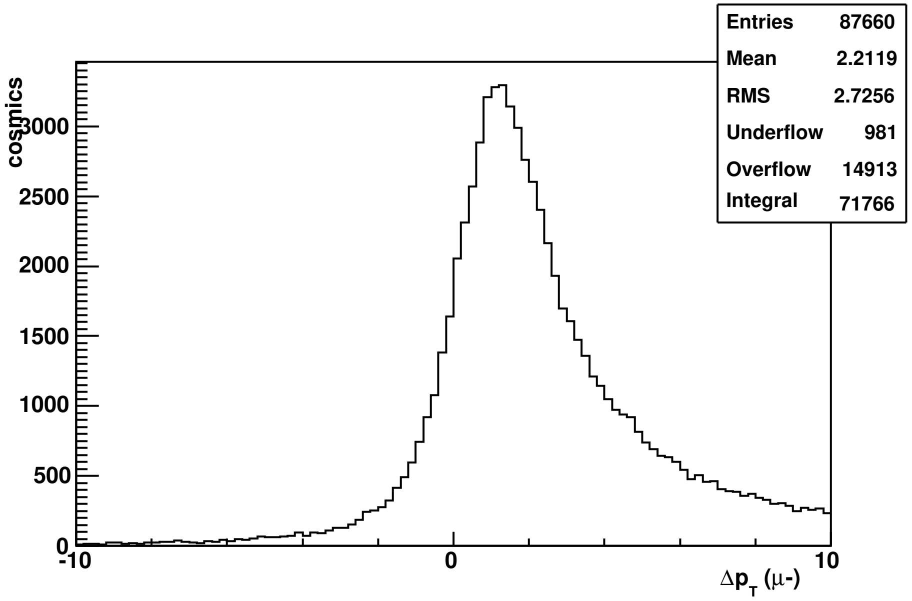
χ² / ndf 789.54 / 21
Prob 0
p0 -2.3061 ± 0.0059
p1 -0.021604 ± 0.023455
p2 1.0325 ± 0.0314
p3 -0.00015802 ± 0.05794292
Δ(TeV/p_T)
Δφ_0 (mrad)
χ² / ndf 20.179 / 21
Prob 0.50995
p0 -53.339 ± 0.905
p1 0.77606 ± 3.71563
p2 293.94 ± 5.00
p3 -0.095555 ± 9.258118
Δd_0 (μm)
Δcotθ
Δz_0 (cm)
Δt_0 (ns)
cotθ

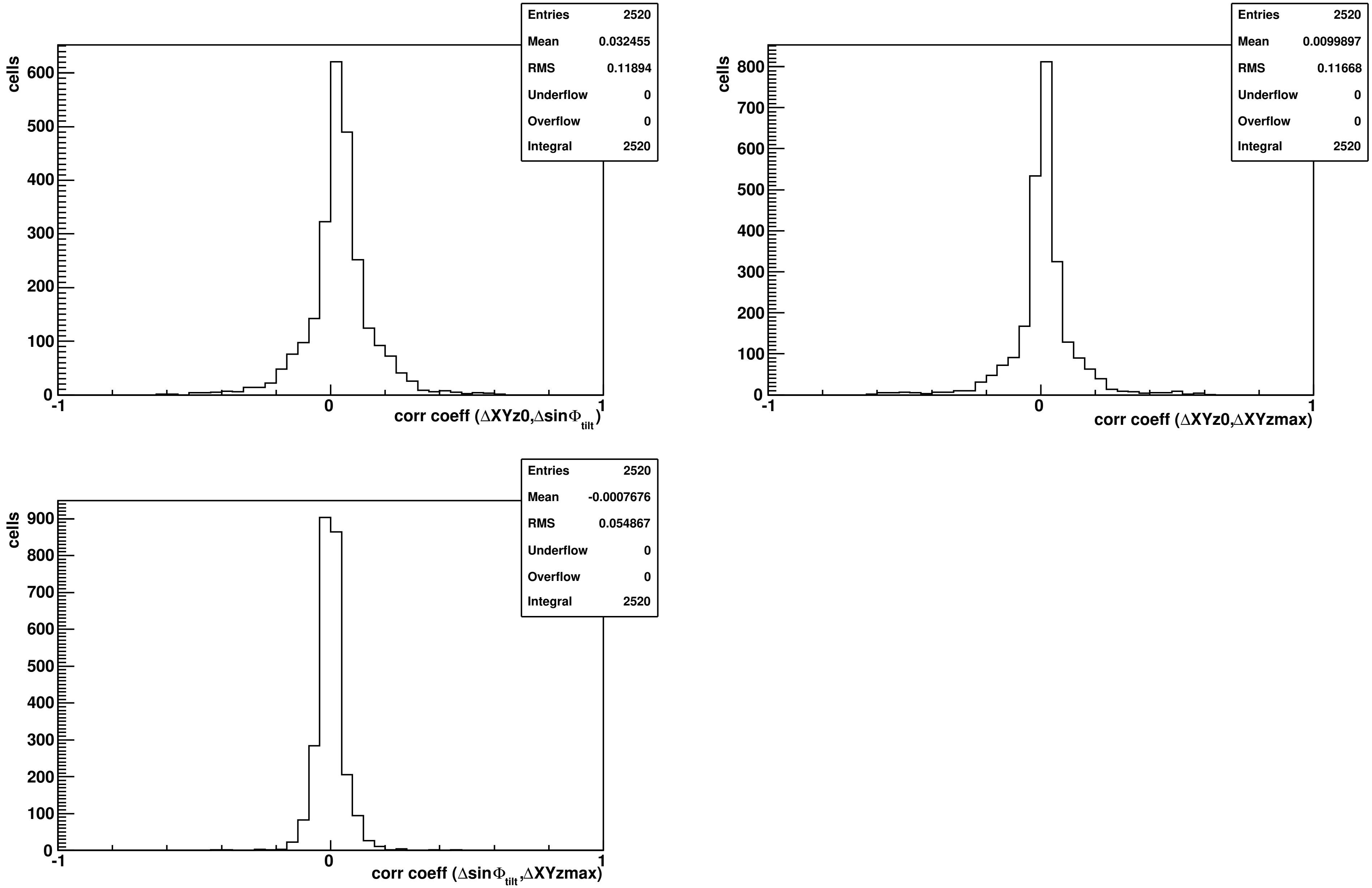


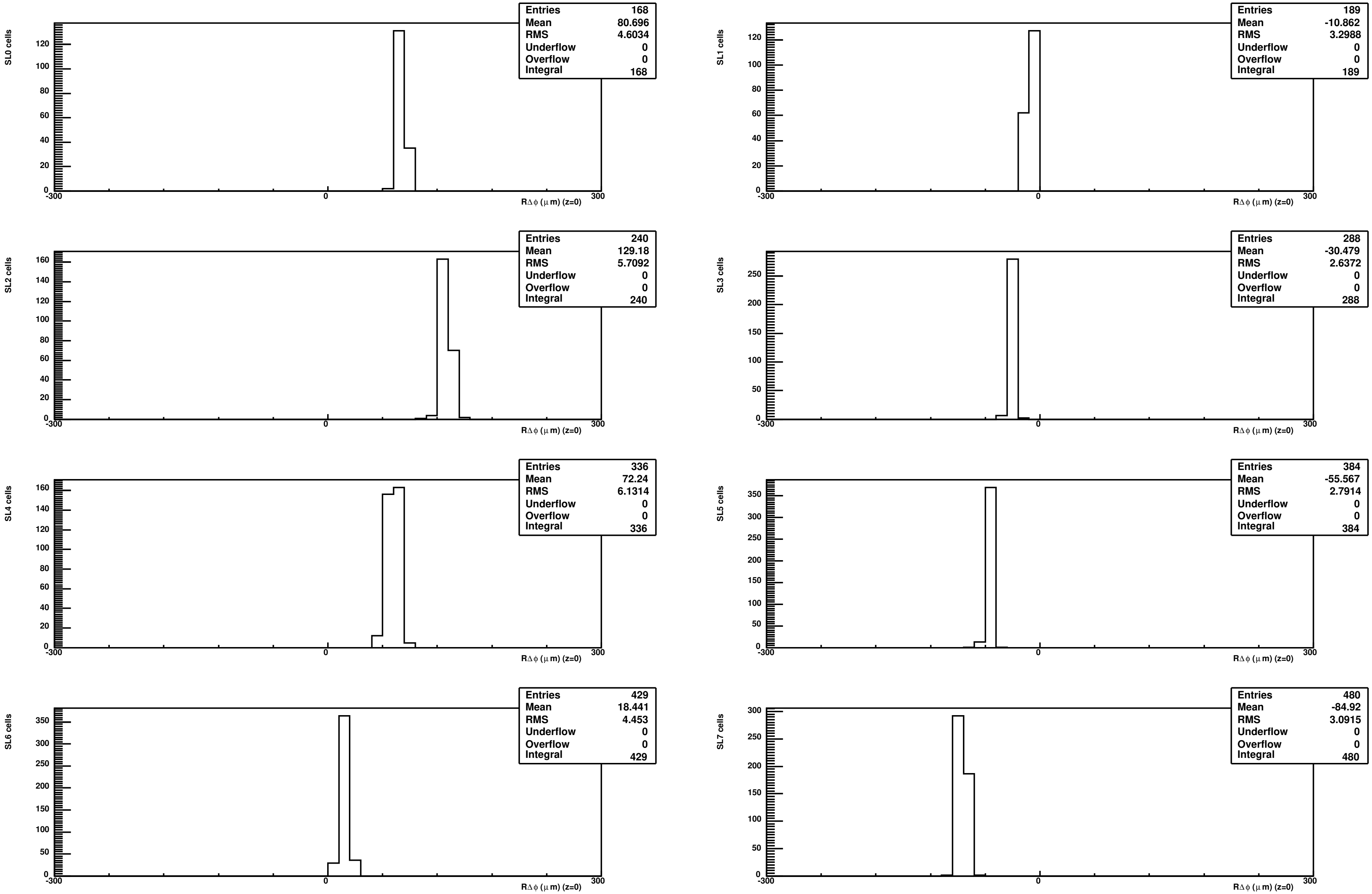
χ^2 / ndf 228.96 / 22
Prob 0
p0 0.067307 ± 0.018720
p1 0.033028 ± 0.007511
p2 -2.1485 ± 0.0144
Δ curv
ϕ_0
χ^2 / ndf 62.886 / 22
Prob 8.2779e-06
p0 -0.028235 ± 0.007719
p1 0.033712 ± 0.003079
p2 0.00021751 ± 0.00590722
$\Delta \phi_0$
χ^2 / ndf 225.63 / 22
Prob 0
p0 19.528 ± 2.927
p1 8.3294 ± 1.1676
p2 -10.125 ± 2.245
Δd_0
χ^2 / ndf 215.69 / 22
Prob 0
p0 0.00027677 ± 0.00004266
p1 -3.6455e-05 ± 1.6934e-05
p2 0.0030069 ± 0.0000327
$\Delta \cot\theta$
χ^2 / ndf 306.32 / 22
Prob 0
p0 0.012853 ± 0.003744
p1 -0.025536 ± 0.001489
p2 0.0076823 ± 0.0028758
Δz_0
Δt_0

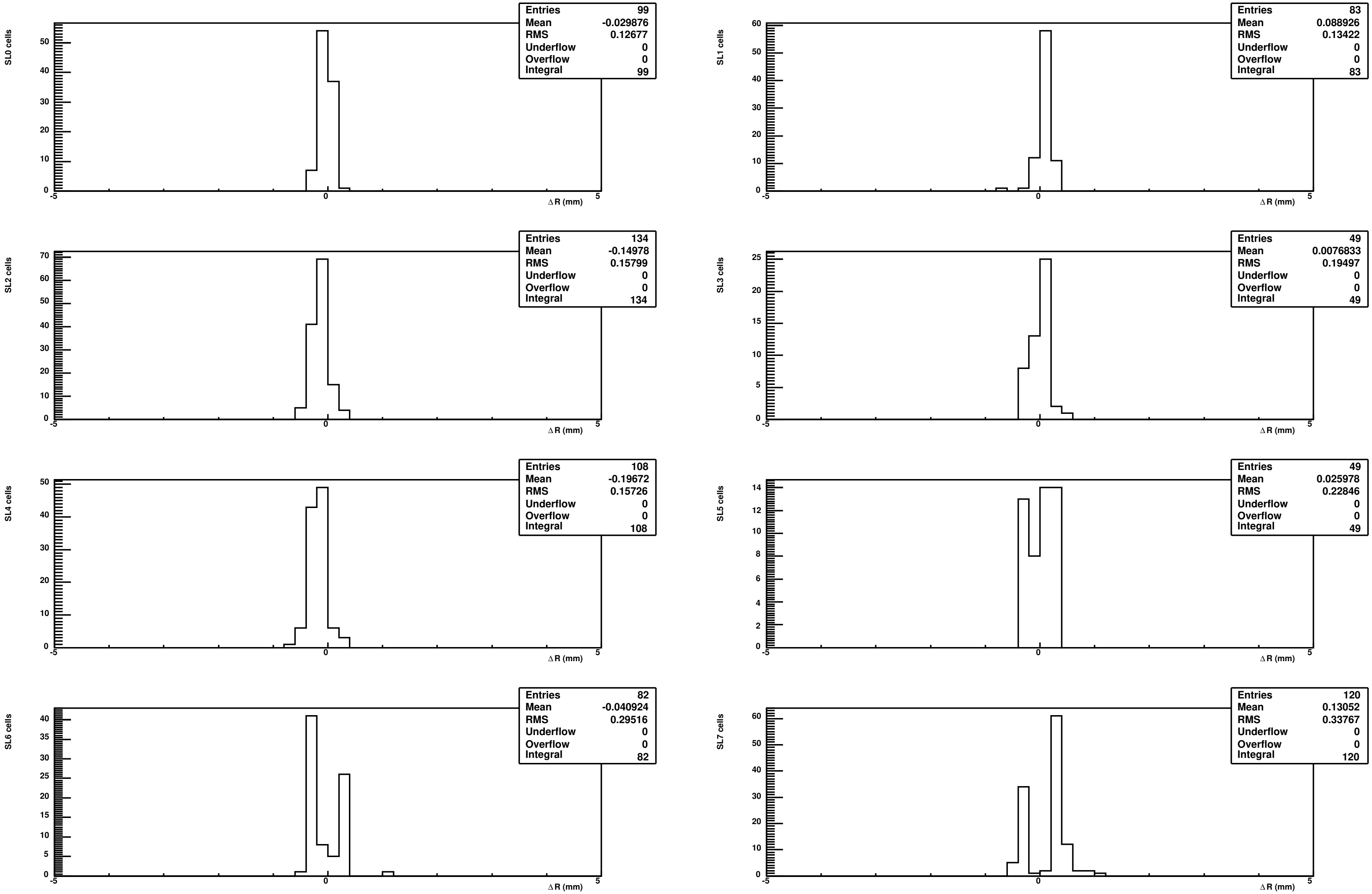

Entries 198555
Mean 0.018315
RMS 3.4976
Underflow 15218
Overflow 15954
Integral 1.4388e+05
cosmics
Δp_T

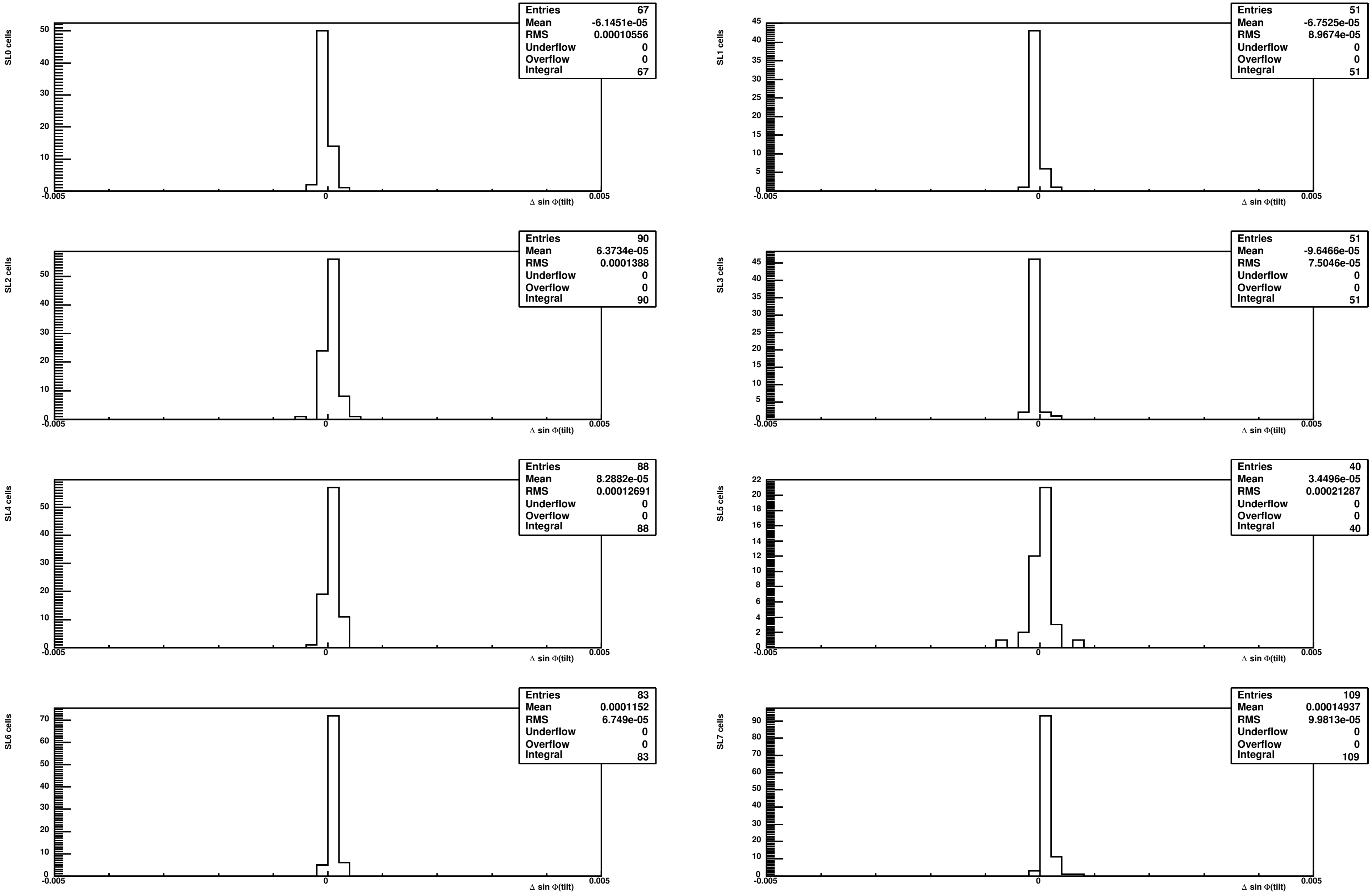

Entries 110895
Mean -2.1648
RMS 2.7313
Underflow 14237
Overflow 1041
Integral 72109
cosmics
Δp_T (μ+)


Entries 87660
Mean 2.2119
RMS 2.7256
Underflow 981
Overflow 14913
Integral 71766
cosmics
Δp_T (μ-)

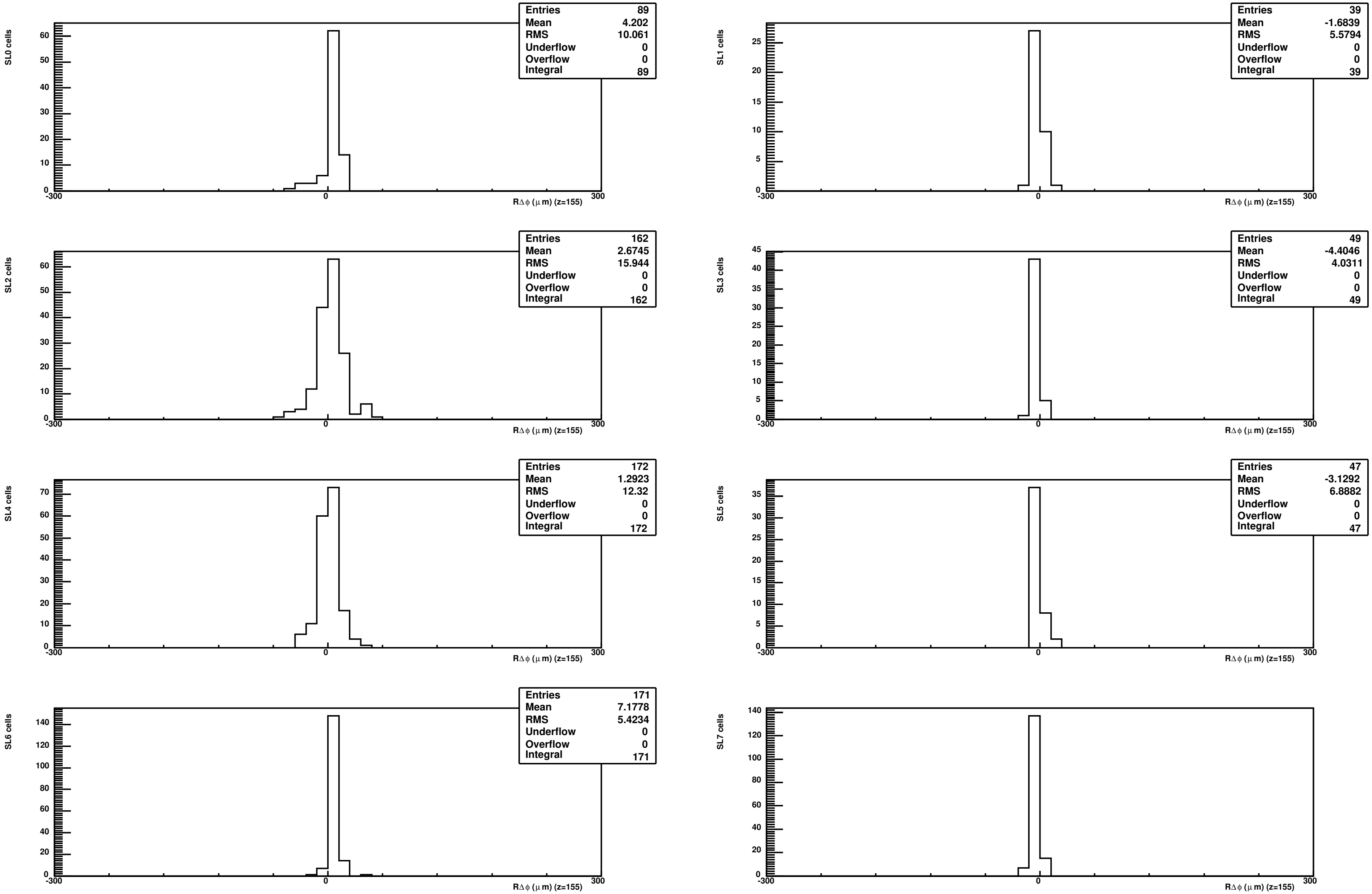

Entries 2520
Mean 0.032455
RMS 0.11894
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔsinΦ$_{tilt}$)
Entries 2520
Mean 0.0099897
RMS 0.11668
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔXYzmax)
Entries 2520
Mean -0.0007676
RMS 0.054867
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔsinΦ$_{tilt}$,ΔXYzmax)

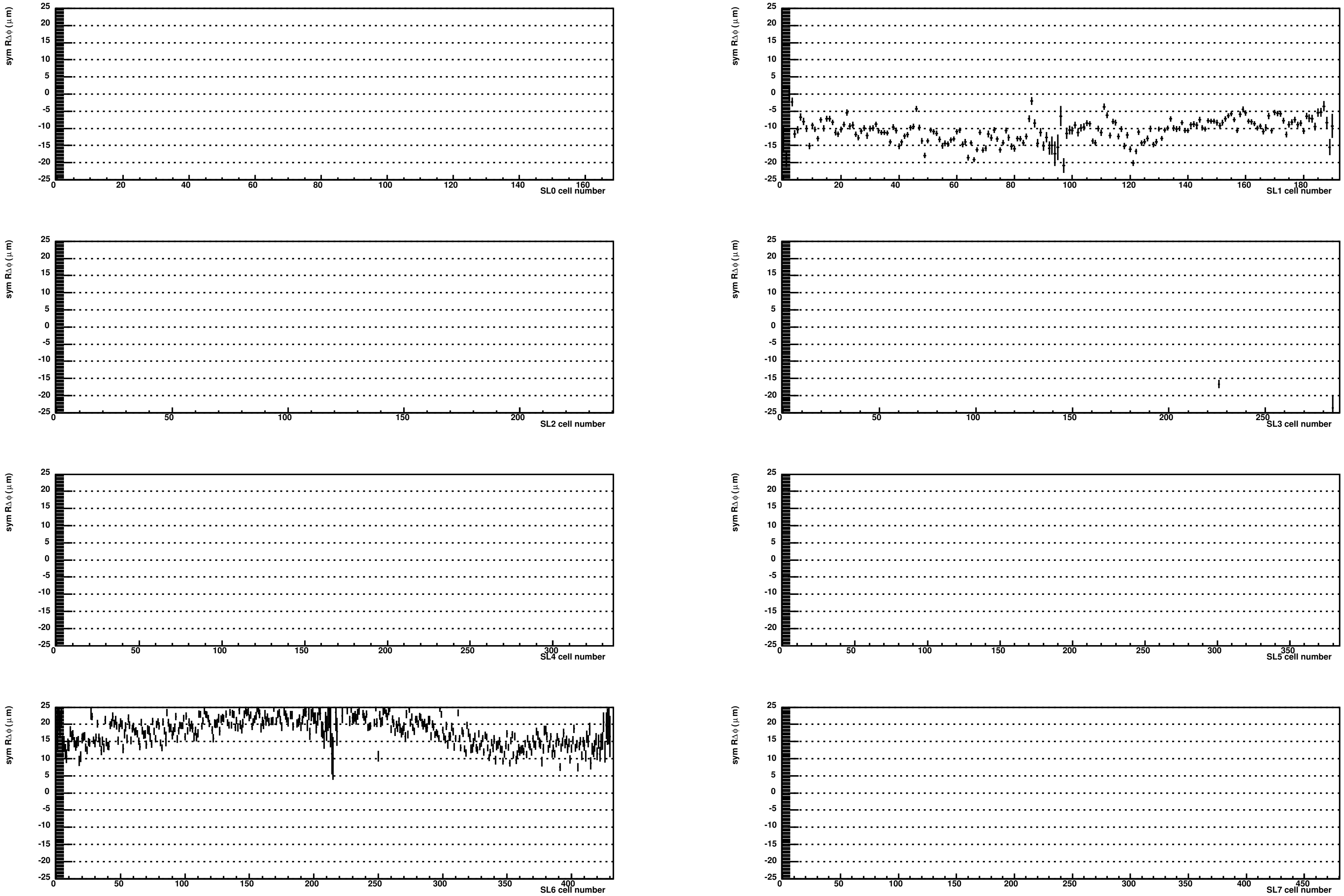

SL0 cells
Entries 168
Mean 80.696
RMS 4.6034
Underflow 0
Overflow 0
Integral 168
SL1 cells
Entries 189
Mean -10.862
RMS 3.2988
Underflow 0
Overflow 0
Integral 189
SL2 cells
Entries 240
Mean 129.18
RMS 5.7092
Underflow 0
Overflow 0
Integral 240
SL3 cells
Entries 288
Mean -30.479
RMS 2.6372
Underflow 0
Overflow 0
Integral 288
SL4 cells
Entries 336
Mean 72.24
RMS 6.1314
Underflow 0
Overflow 0
Integral 336
SL5 cells
Entries 384
Mean -55.567
RMS 2.7914
Underflow 0
Overflow 0
Integral 384
SL6 cells
Entries 429
Mean 18.441
RMS 4.453
Underflow 0
Overflow 0
Integral 429
SL7 cells
Entries 480
Mean -84.92
RMS 3.0915
Underflow 0
Overflow 0
Integral 480
RΔφ (μm) (z=0)
-300
0
300

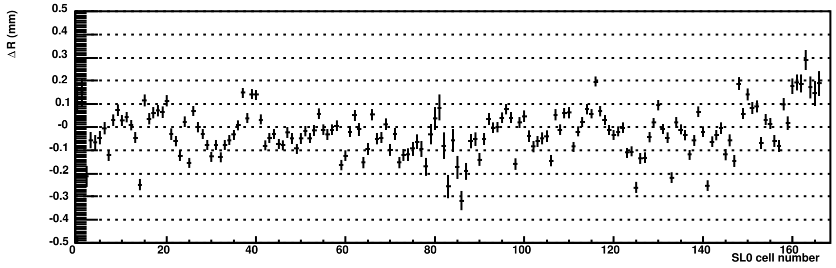

SL0 cells
Entries 99
Mean -0.029876
RMS 0.12677
Underflow 0
Overflow 0
Integral 99
SL1 cells
Entries 83
Mean 0.088926
RMS 0.13422
Underflow 0
Overflow 0
Integral 83
SL2 cells
Entries 134
Mean -0.14978
RMS 0.15799
Underflow 0
Overflow 0
Integral 134
SL3 cells
Entries 49
Mean 0.0076833
RMS 0.19497
Underflow 0
Overflow 0
Integral 49
SL4 cells
Entries 108
Mean -0.19672
RMS 0.15726
Underflow 0
Overflow 0
Integral 108
SL5 cells
Entries 49
Mean 0.025978
RMS 0.22846
Underflow 0
Overflow 0
Integral 49
SL6 cells
Entries 82
Mean -0.040924
RMS 0.29516
Underflow 0
Overflow 0
Integral 82
SL7 cells
Entries 120
Mean 0.13052
RMS 0.33767
Underflow 0
Overflow 0
Integral 120
ΔR (mm)

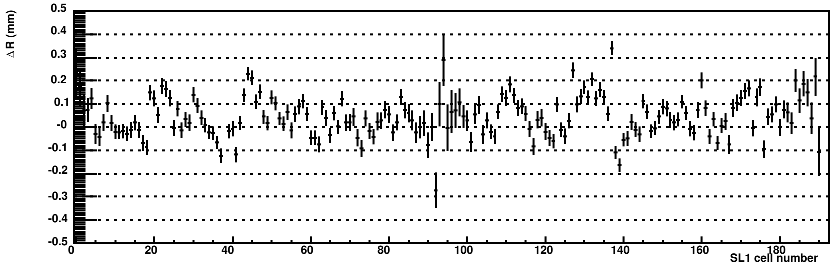


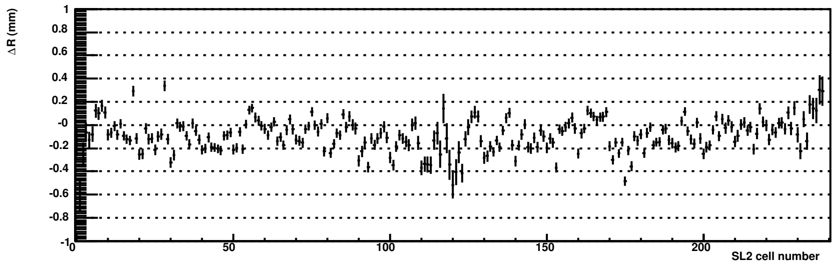
SL0 cells
Entries 67
Mean -6.1451e-05
RMS 0.00010556
Underflow 0
Overflow 0
Integral 67
Δ sin Φ(tilt)
SL1 cells
Entries 51
Mean -6.7525e-05
RMS 8.9674e-05
Underflow 0
Overflow 0
Integral 51
Δ sin Φ(tilt)
SL2 cells
Entries 90
Mean 6.3734e-05
RMS 0.0001388
Underflow 0
Overflow 0
Integral 90
Δ sin Φ(tilt)
SL3 cells
Entries 51
Mean -9.6466e-05
RMS 7.5046e-05
Underflow 0
Overflow 0
Integral 51
Δ sin Φ(tilt)
SL4 cells
Entries 88
Mean 8.2882e-05
RMS 0.00012691
Underflow 0
Overflow 0
Integral 88
Δ sin Φ(tilt)
SL5 cells
Entries 40
Mean 3.4496e-05
RMS 0.00021287
Underflow 0
Overflow 0
Integral 40
Δ sin Φ(tilt)
SL6 cells
Entries 83
Mean 0.0001152
RMS 6.749e-05
Underflow 0
Overflow 0
Integral 83
Δ sin Φ(tilt)
SL7 cells
Entries 109
Mean 0.00014937
RMS 9.9813e-05
Underflow 0
Overflow 0
Integral 109
Δ sin Φ(tilt)

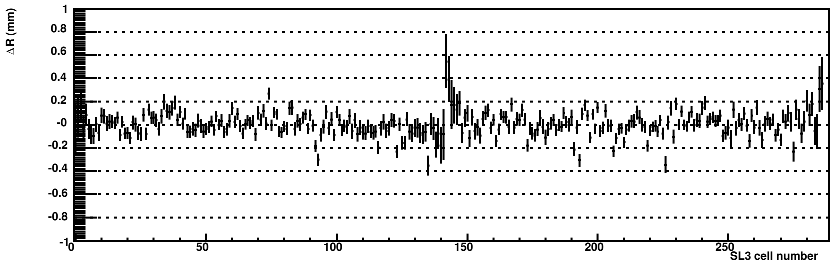

SL0 cells
Entries 89
Mean 4.202
RMS 10.061
Underflow 0
Overflow 0
Integral 89
SL1 cells
Entries 39
Mean -1.6839
RMS 5.5794
Underflow 0
Overflow 0
Integral 39
SL2 cells
Entries 162
Mean 2.6745
RMS 15.944
Underflow 0
Overflow 0
Integral 162
SL3 cells
Entries 49
Mean -4.4046
RMS 4.0311
Underflow 0
Overflow 0
Integral 49
SL4 cells
Entries 172
Mean 1.2923
RMS 12.32
Underflow 0
Overflow 0
Integral 172
SL5 cells
Entries 47
Mean -3.1292
RMS 6.8882
Underflow 0
Overflow 0
Integral 47
SL6 cells
Entries 171
Mean 7.1778
RMS 5.4234
Underflow 0
Overflow 0
Integral 171
SL7 cells
RΔφ (μm) (z=155)

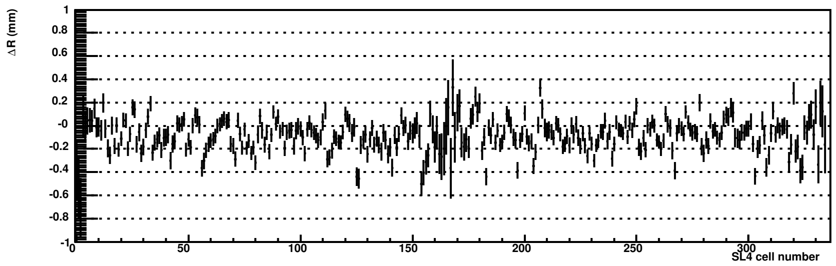

sym RΔϕ (μm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

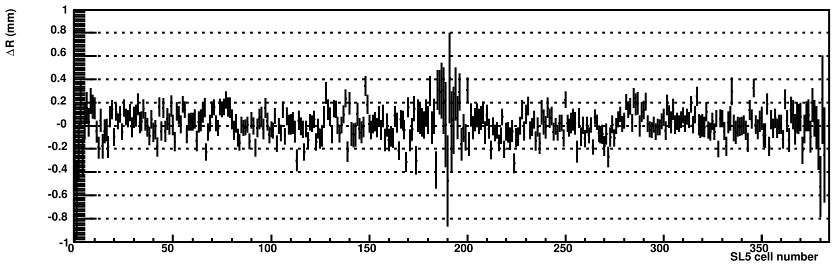

Δ R (mm)
SL0 cell number

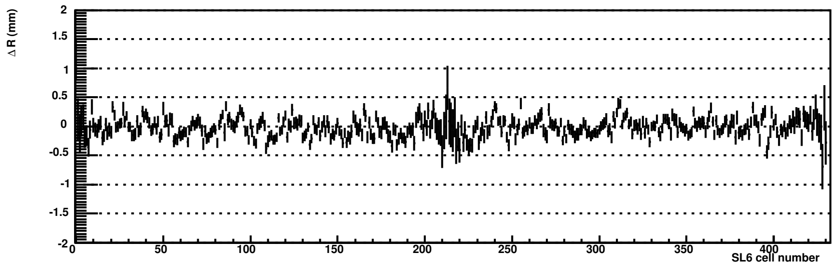

Δ R (mm)
SL1 cell number

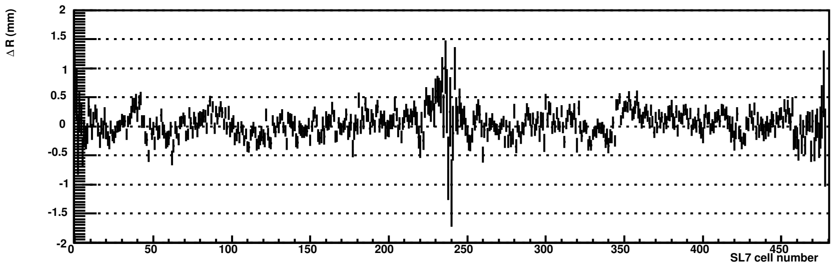

Δ R (mm)
SL2 cell number

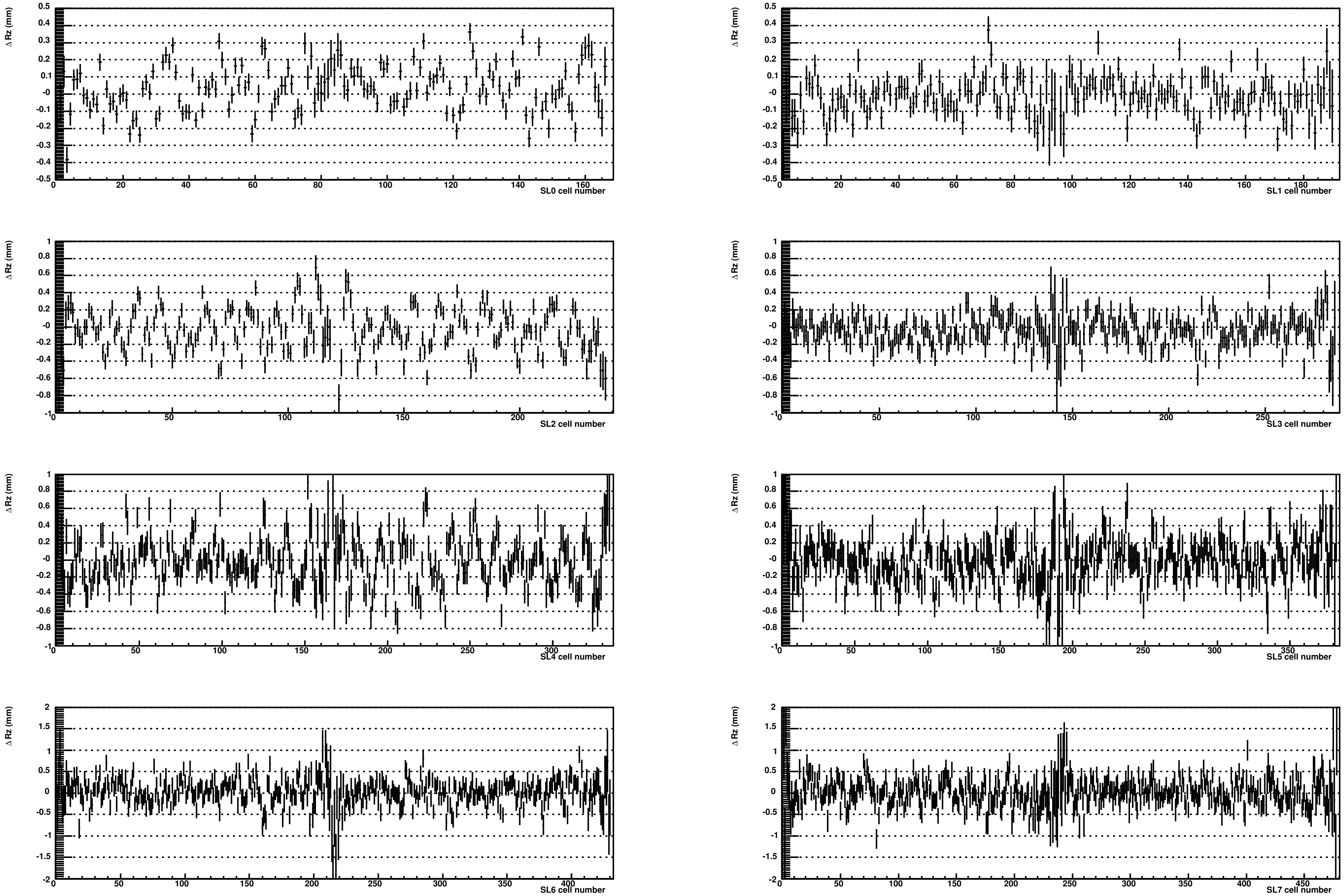

Δ R (mm)
SL3 cell number

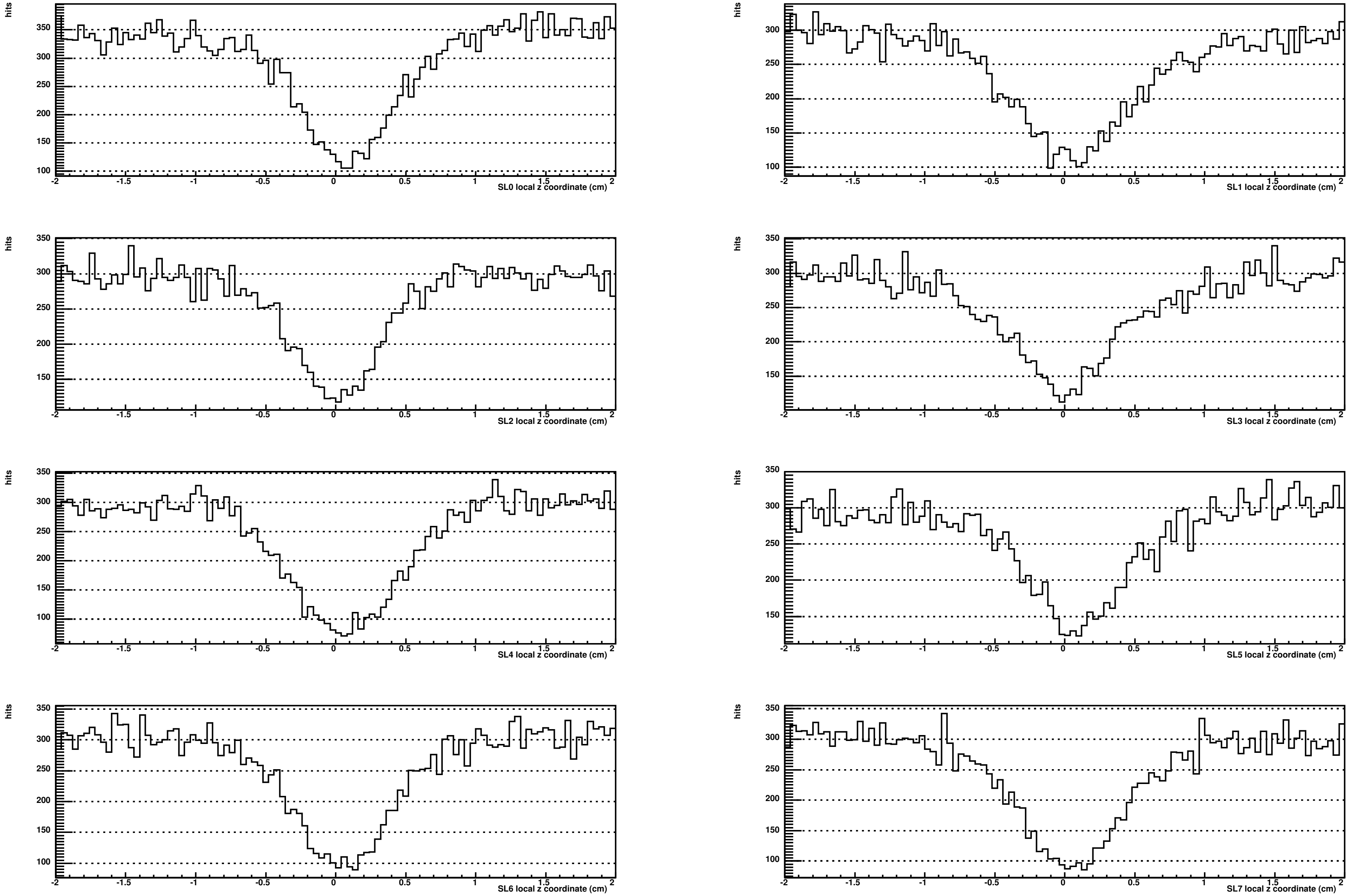

Δ R (mm)
SL4 cell number

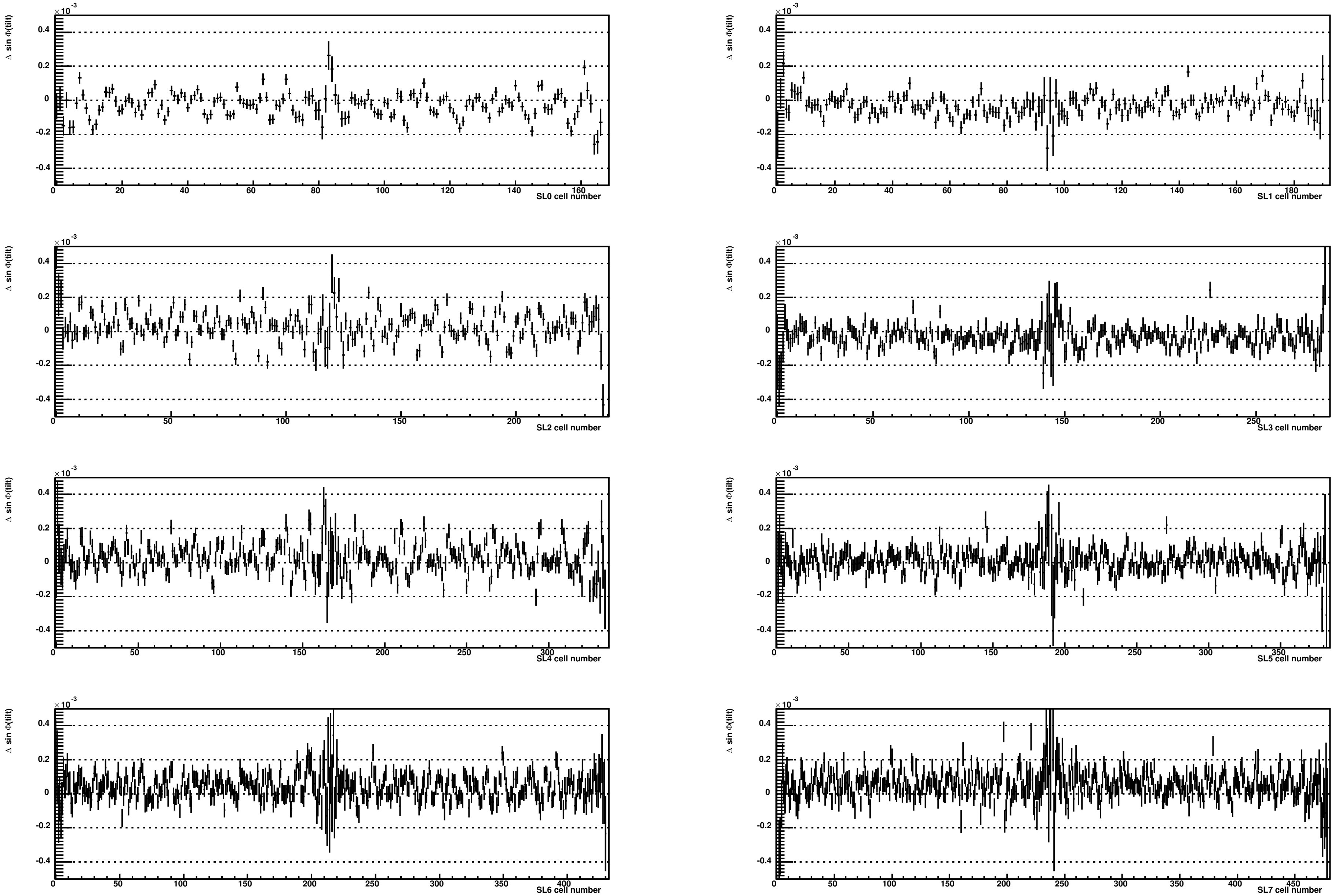

Δ R (mm)
SL5 cell number

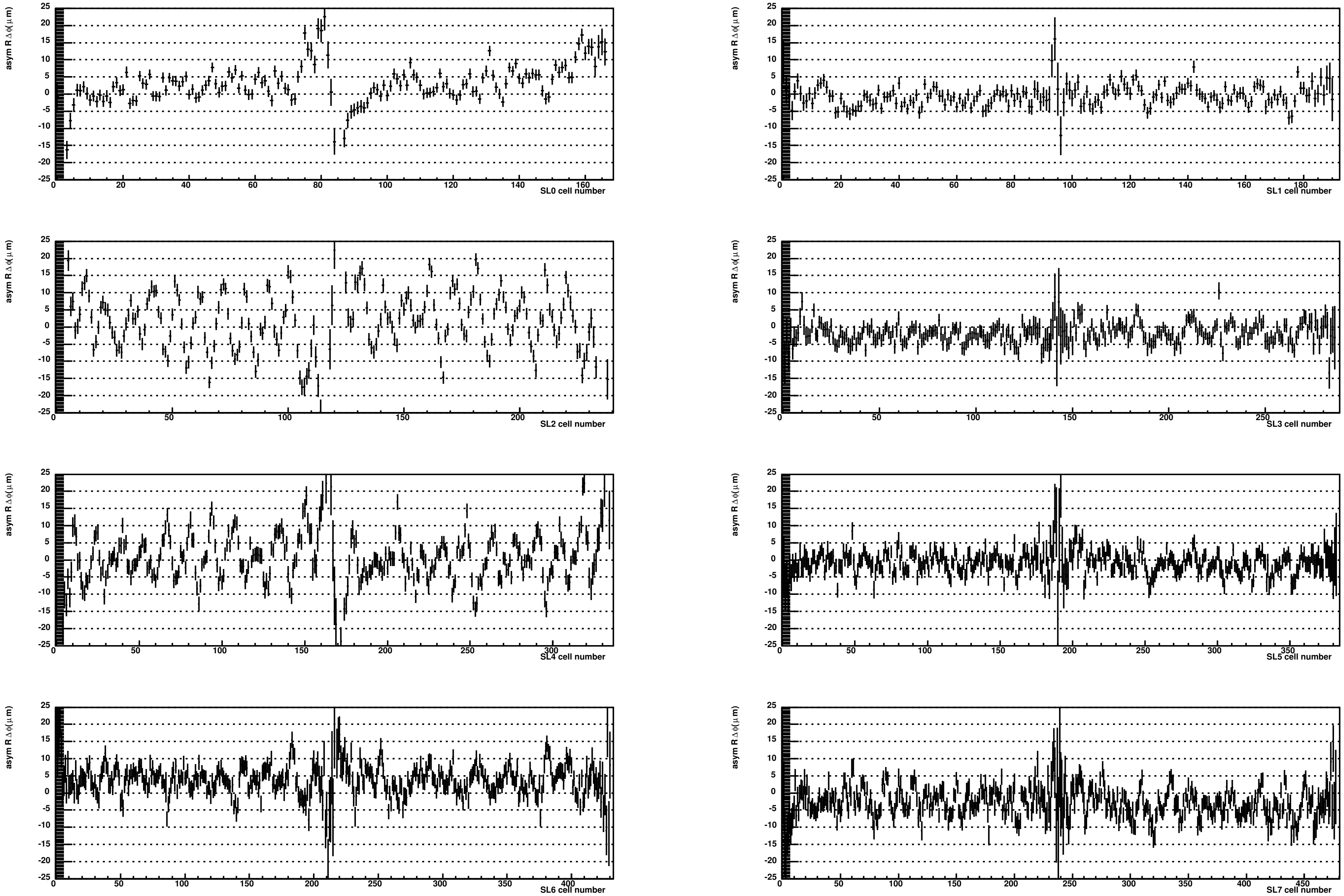

Δ R (mm)
SL6 cell number

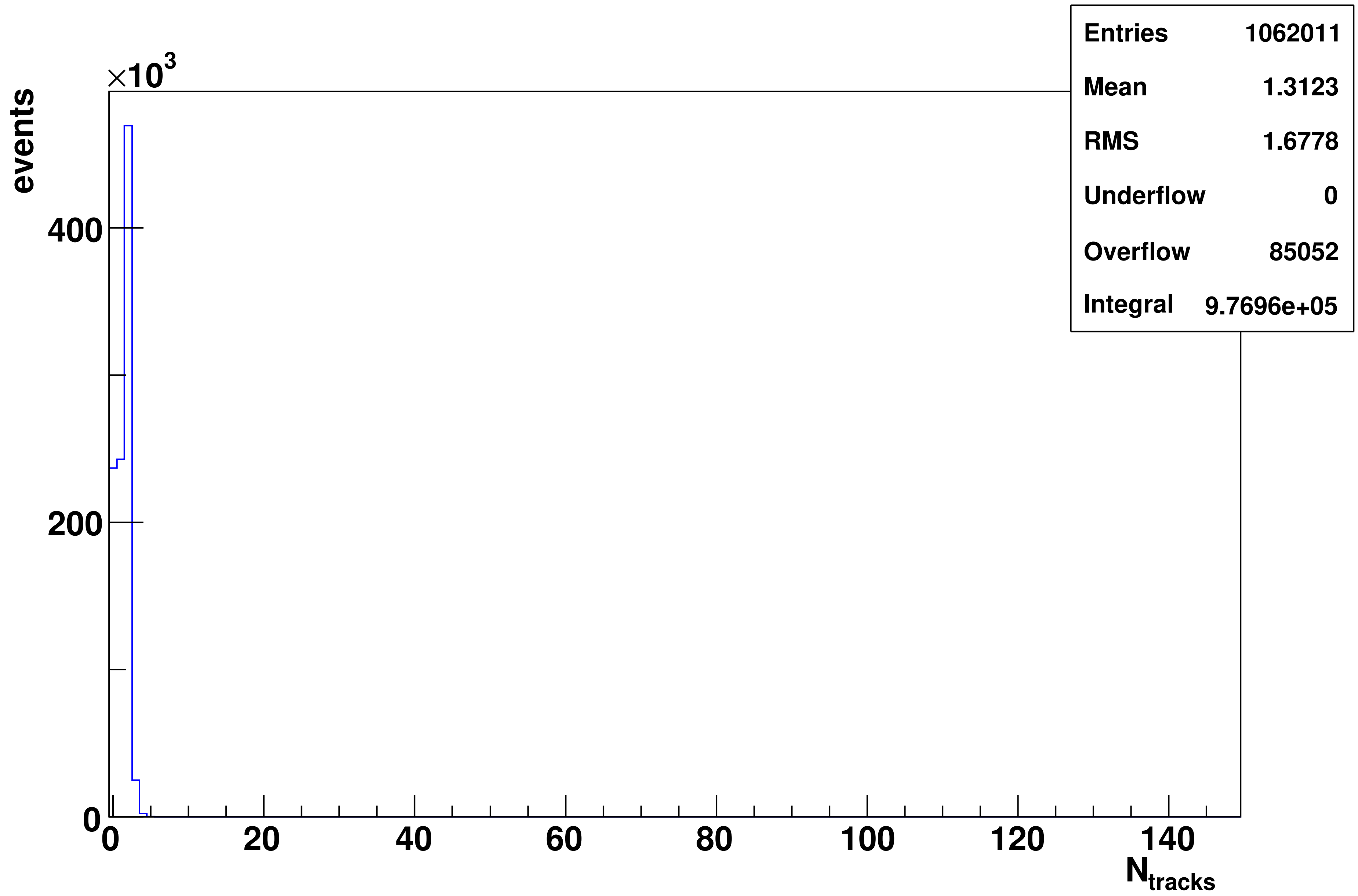

Δ R (mm)
SL7 cell number


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

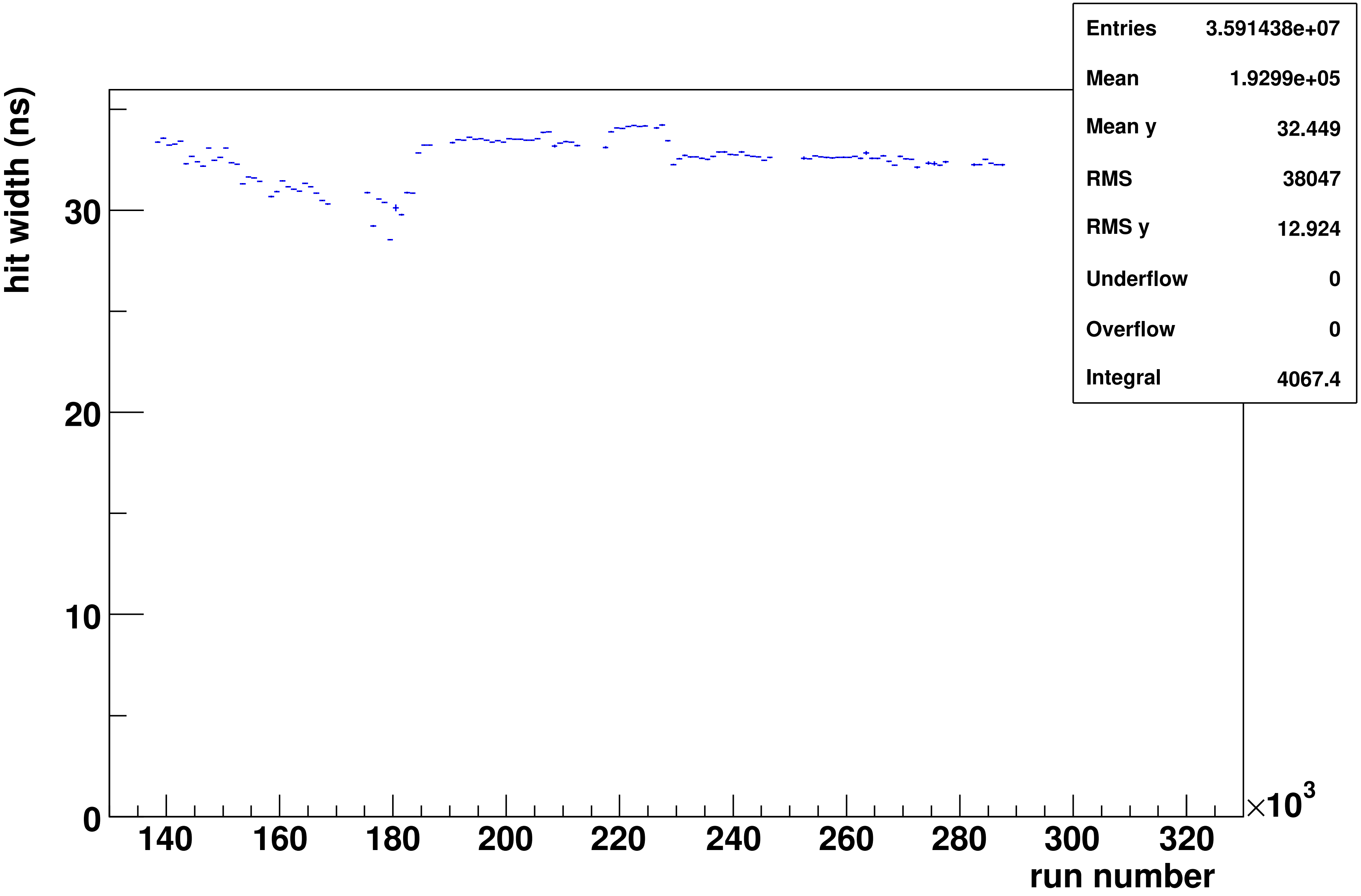

hits
SL0 local z coordinate (cm)
hits
SL1 local z coordinate (cm)
hits
SL2 local z coordinate (cm)
hits
SL3 local z coordinate (cm)
hits
SL4 local z coordinate (cm)
hits
SL5 local z coordinate (cm)
hits
SL6 local z coordinate (cm)
hits
SL7 local z coordinate (cm)


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

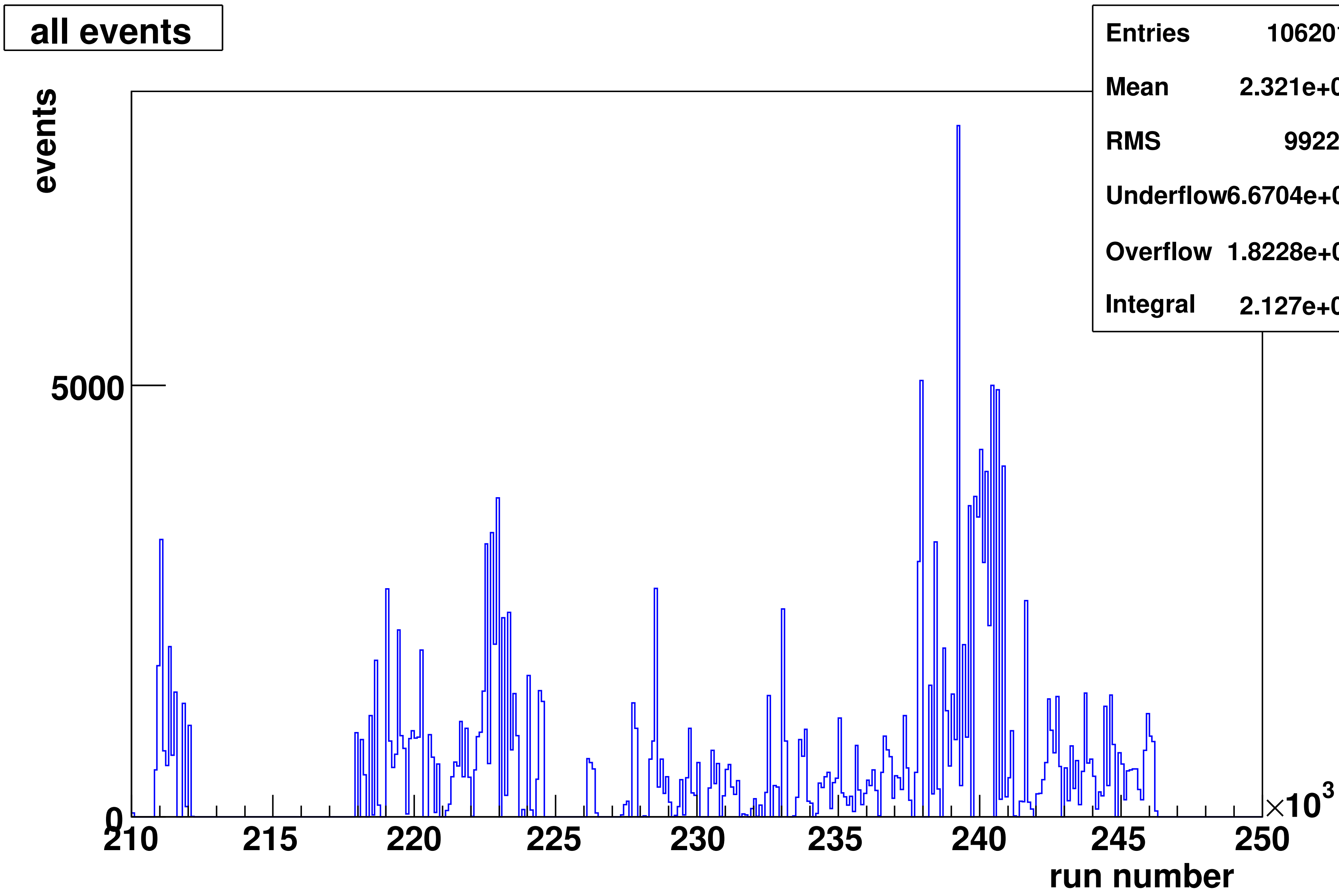

asym R Δφ(μm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

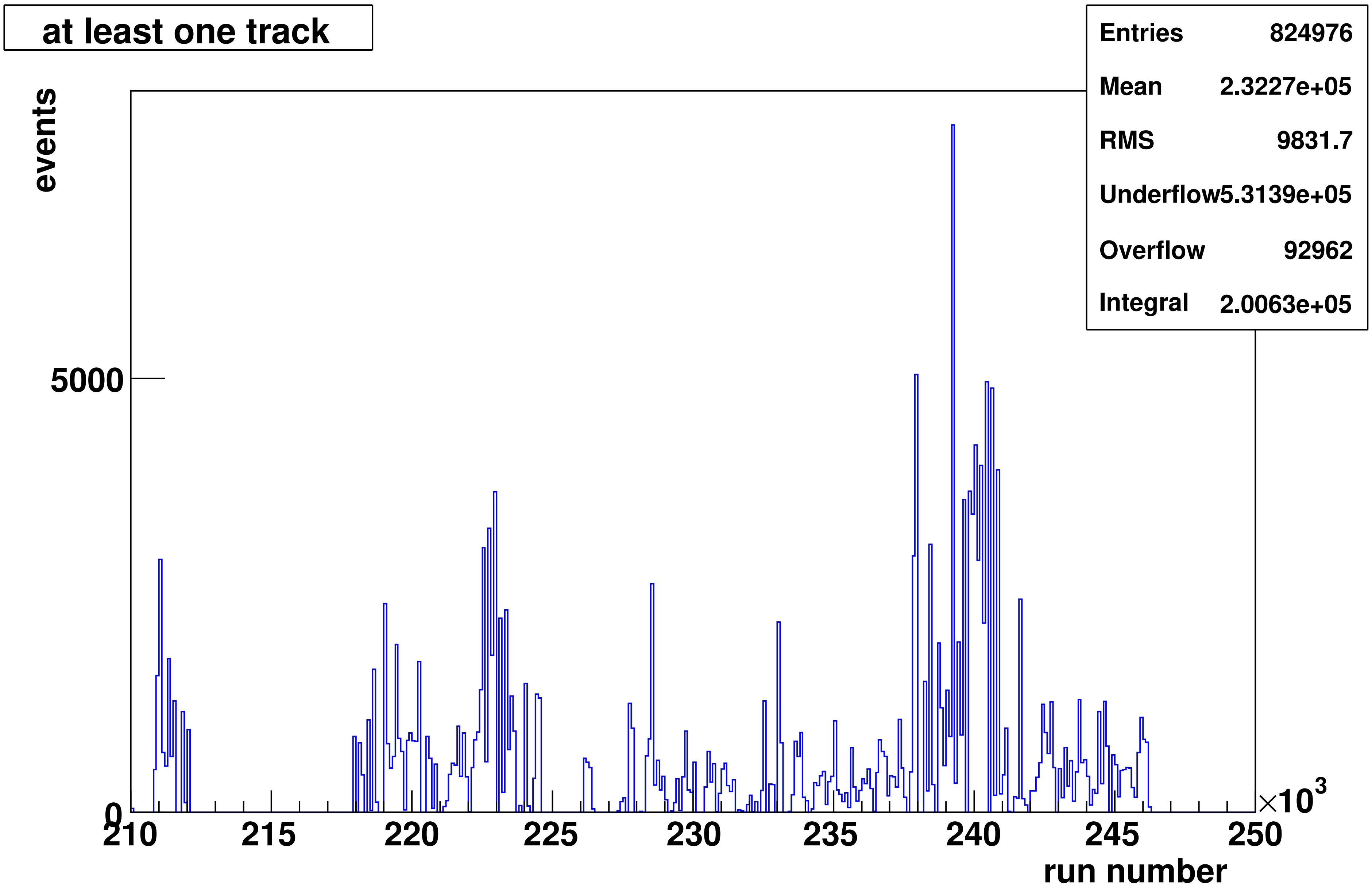


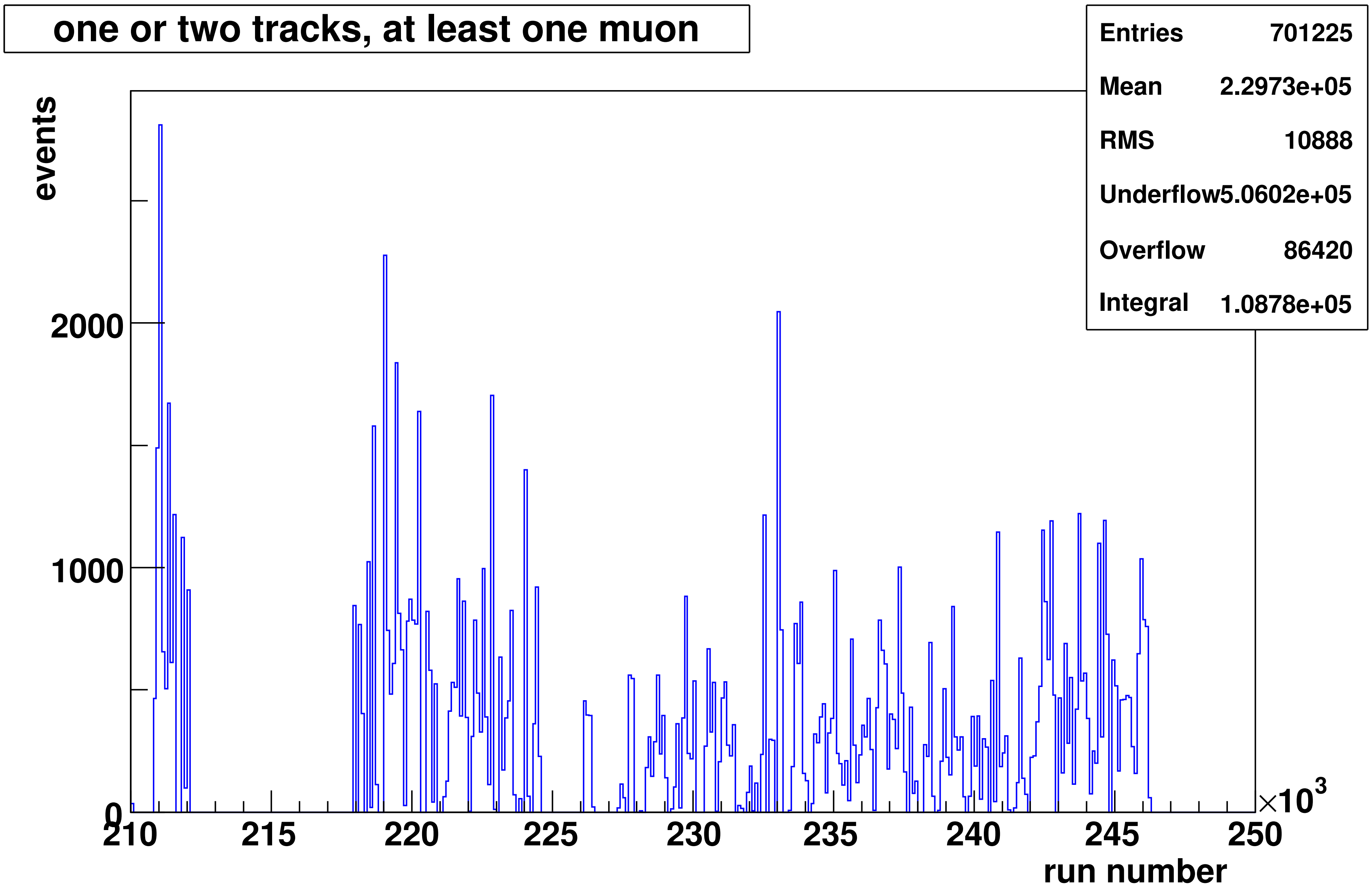
Entries 1062011
Mean 1.3123
RMS 1.6778
Underflow 0
Overflow 85052
Integral 9.7696e+05
$\times 10^3$
events
400
200
0
0
20
40
60
80
100
120
140
N_{tracks}

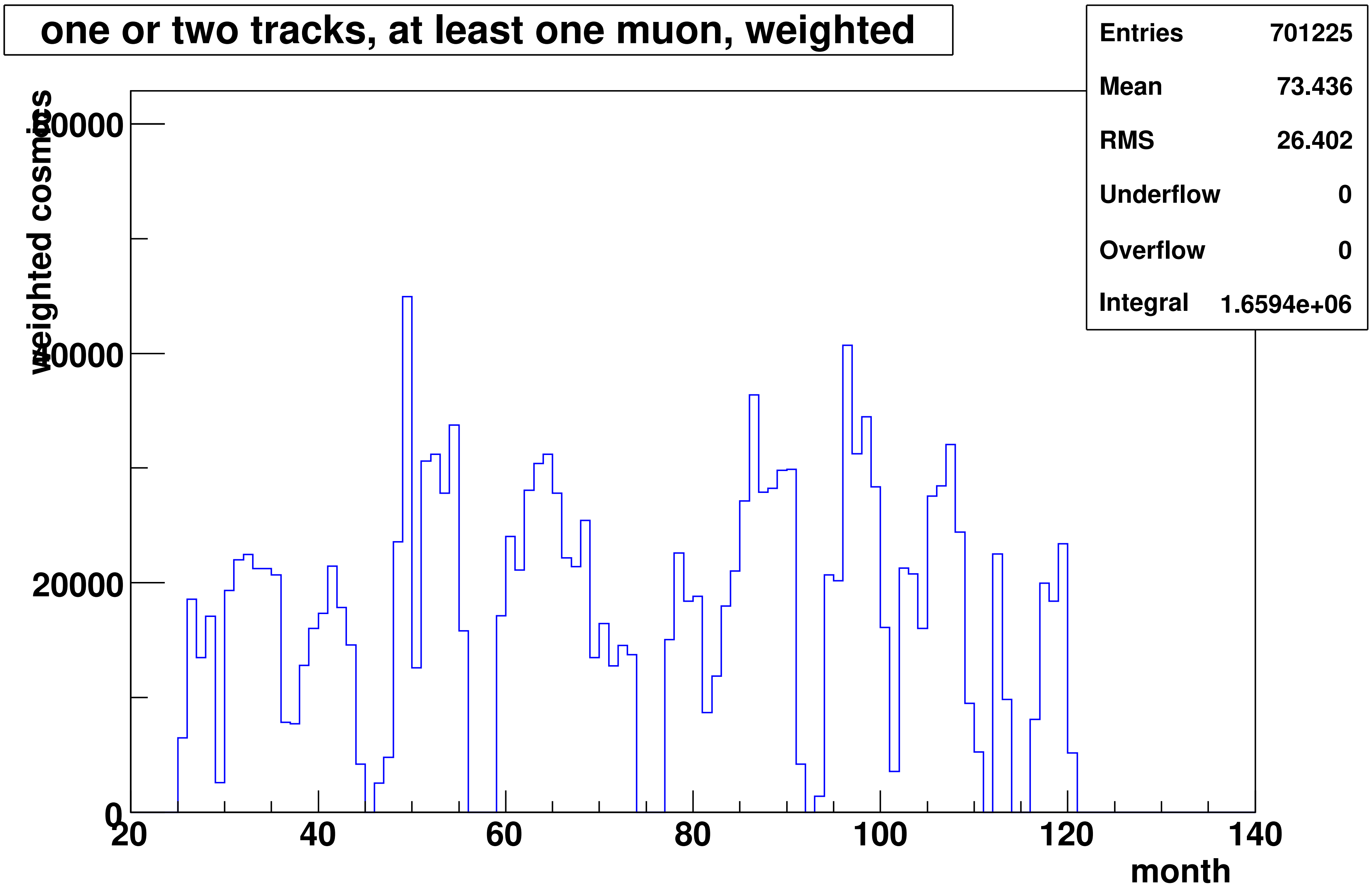


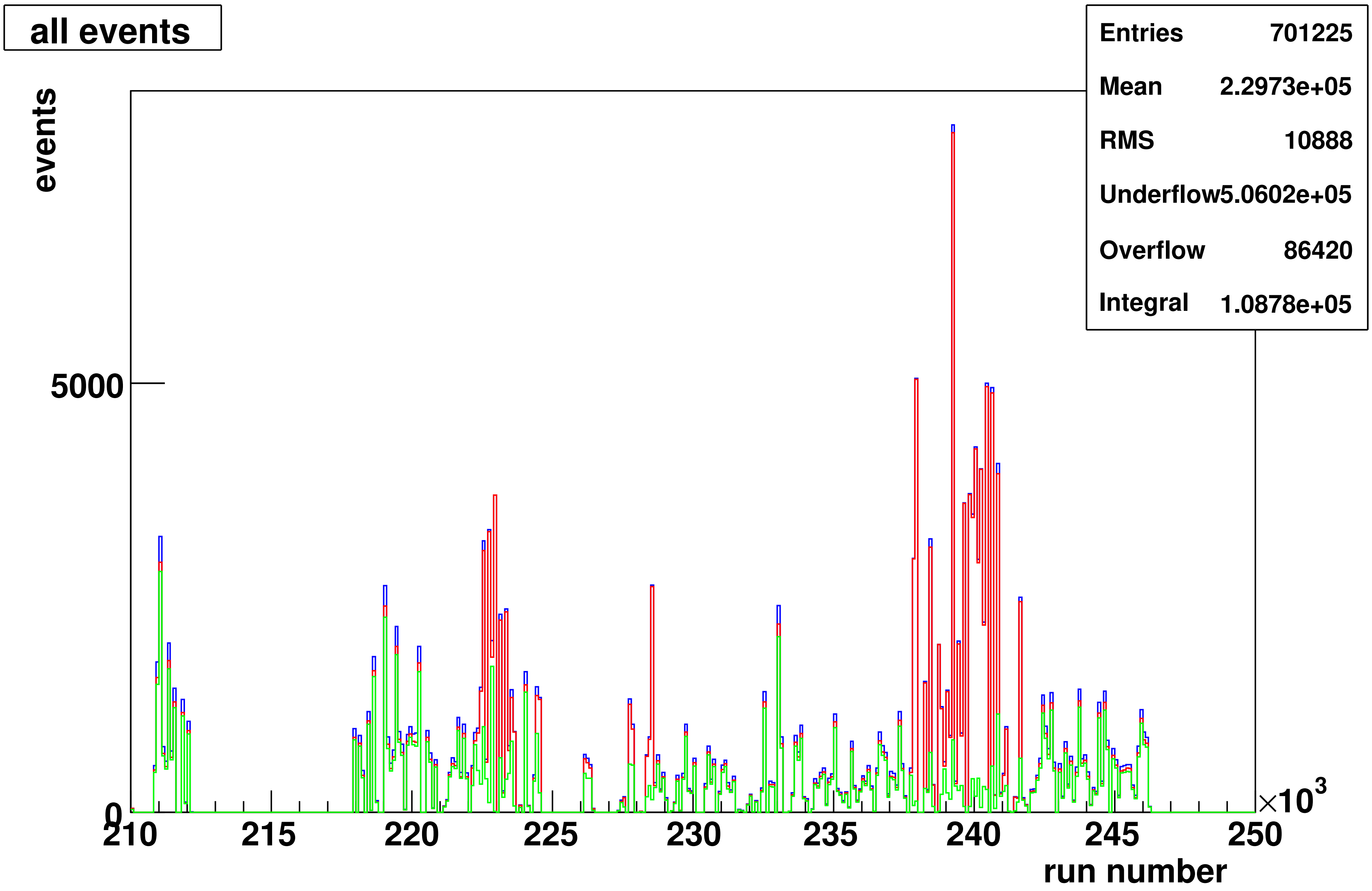
Entries 3.591438e+07
Mean 1.9299e+05
Mean y 32.449
RMS 38047
RMS y 12.924
Underflow 0
Overflow 0
Integral 4067.4
hit width (ns)
0
10
20
30
140
160
180
200
220
240
260
280
300
320
×10^3
run number

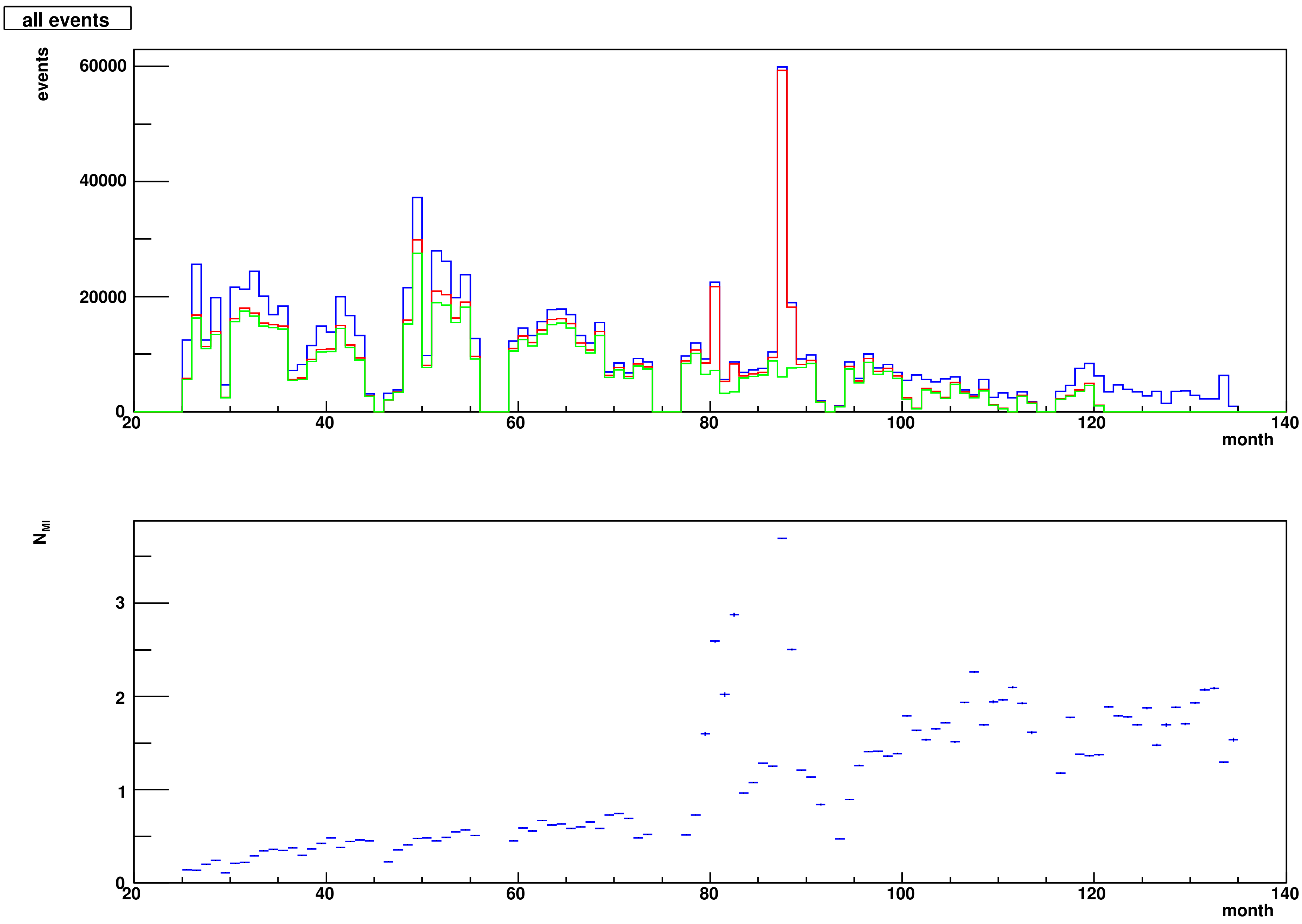

all events
events
Entries 1062011
Mean 2.321e+05
RMS 9922.5
Underflow 6.6704e+05
Overflow 1.8228e+05
Integral 2.127e+05
5000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

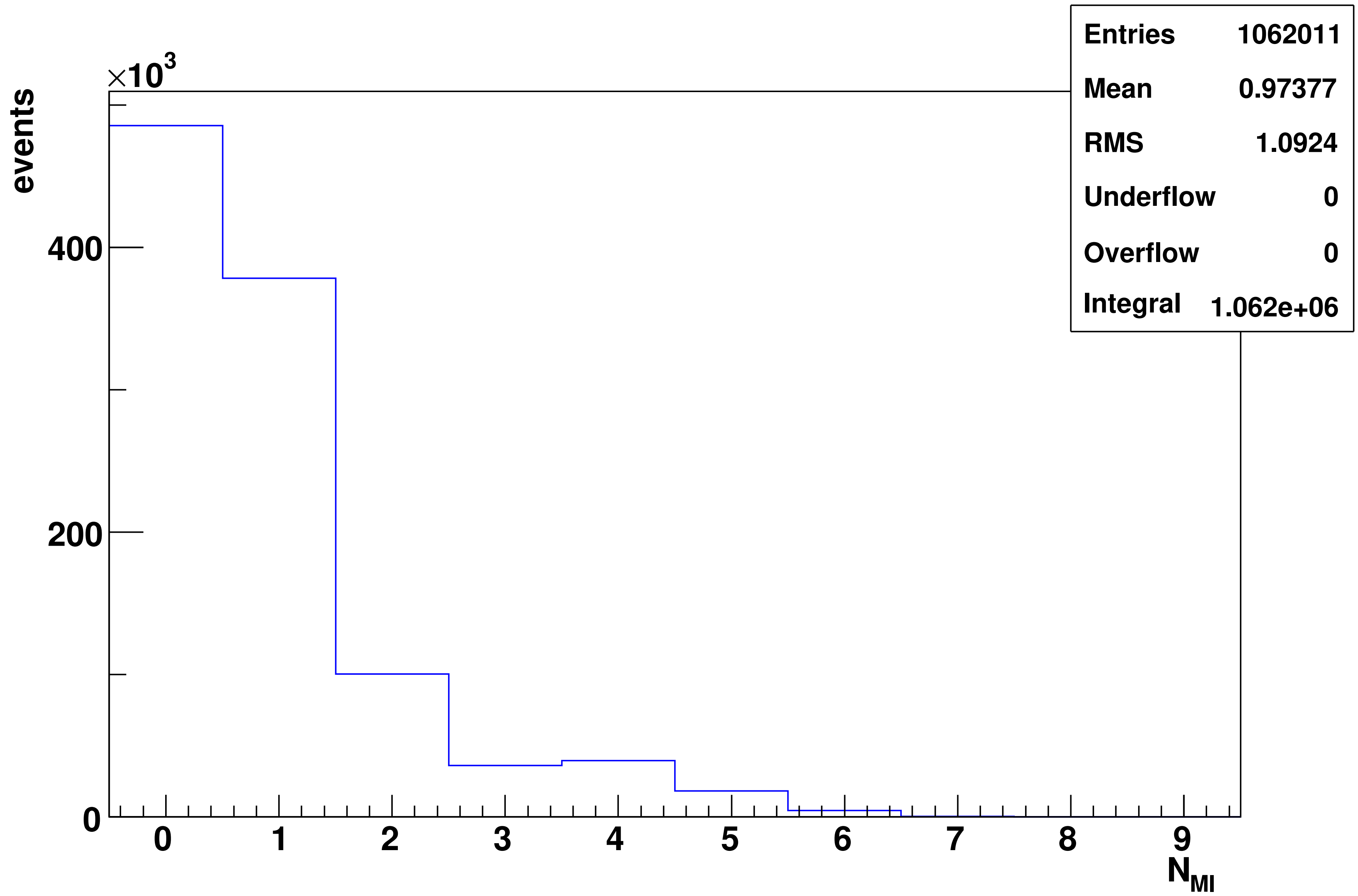

at least one track
events
run number
Entries 824976
Mean 2.3227e+05
RMS 9831.7
Underflow 5.3139e+05
Overflow 92962
Integral 2.0063e+05
5000
0
210
215
220
225
230
235
240
245
250
×10³


one or two tracks, at least one muon
events
run number
Entries 701225
Mean 2.2973e+05
RMS 10888
Underflow5.0602e+05
Overflow 86420
Integral 1.0878e+05
0
1000
2000
210
215
220
225
230
235
240
245
250
$\times 10^3$

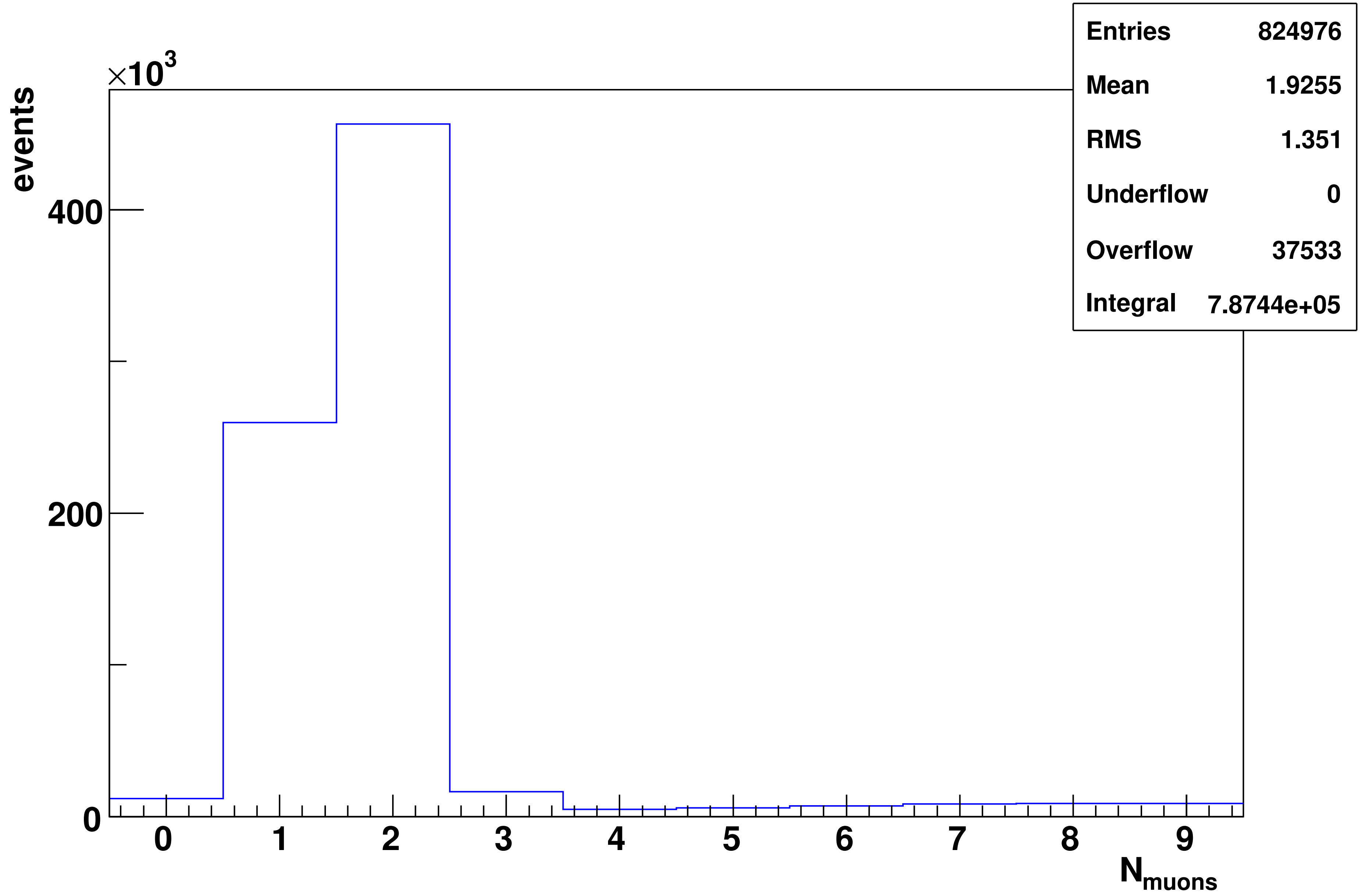

one or two tracks, at least one muon, weighted
Entries 701225
Mean 73.436
RMS 26.402
Underflow 0
Overflow 0
Integral 1.6594e+06
weighted cosmics
0
20000
40000
60000
20
40
60
80
100
120
140
month


all events
events
Entries 701225
Mean 2.2973e+05
RMS 10888
Underflow 5.0602e+05
Overflow 86420
Integral 1.0878e+05
5000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

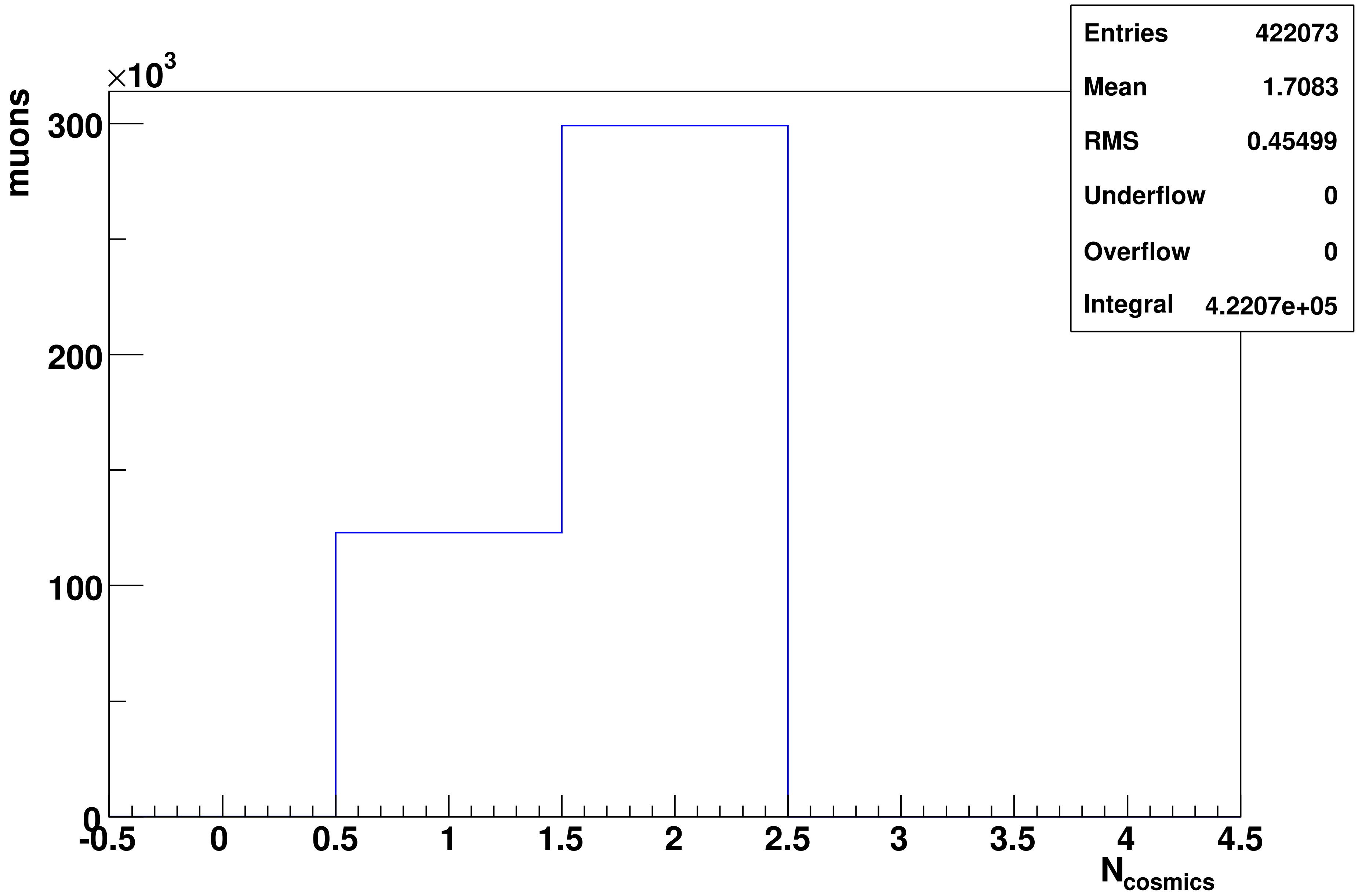

all events
events
60000
40000
20000
0
20
40
60
80
100
120
140
month
N_MI
3
2
1
0
20
40
60
80
100
120
140
month

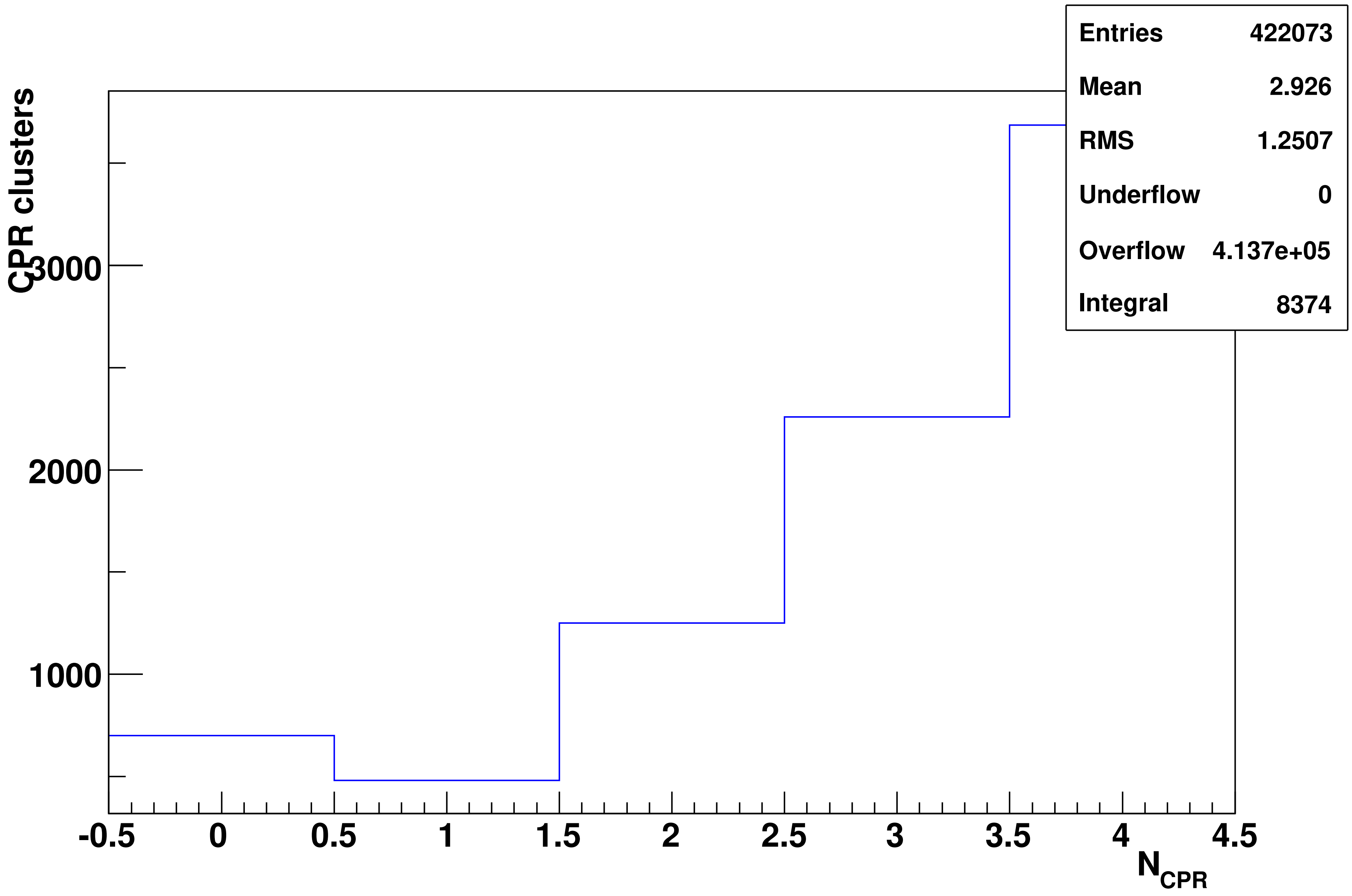


Entries 1062011
Mean 0.97377
RMS 1.0924
Underflow 0
Overflow 0
Integral 1.062e+06
$\times 10^3$
events
400
200
0
0 1 2 3 4 5 6 7 8 9
N_{MI}

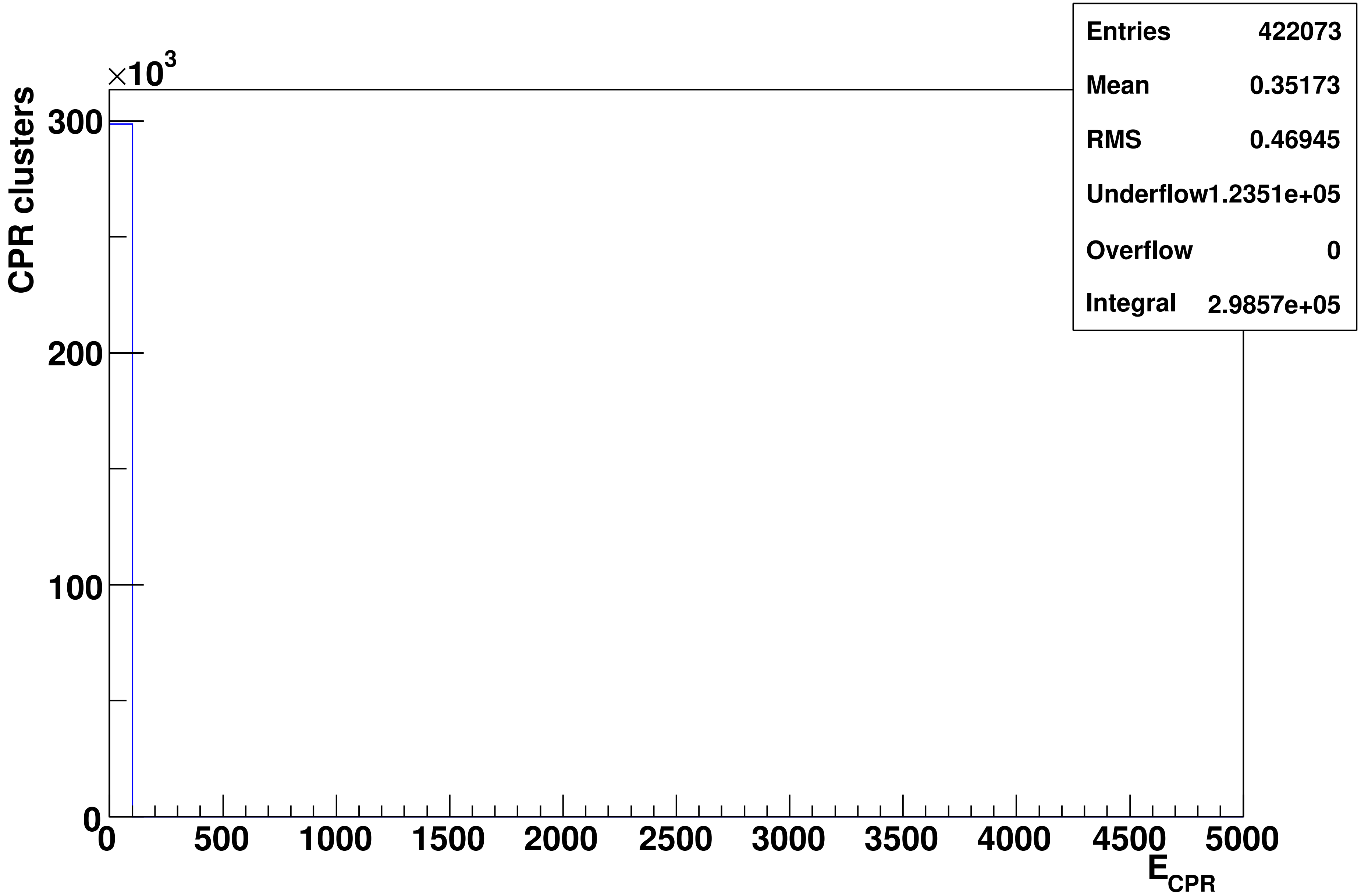


Entries 824976
Mean 1.9255
RMS 1.351
Underflow 0
Overflow 37533
Integral 7.8744e+05
×10^3
events
400
200
0
0
1
2
3
4
5
6
7
8
9
N_muons

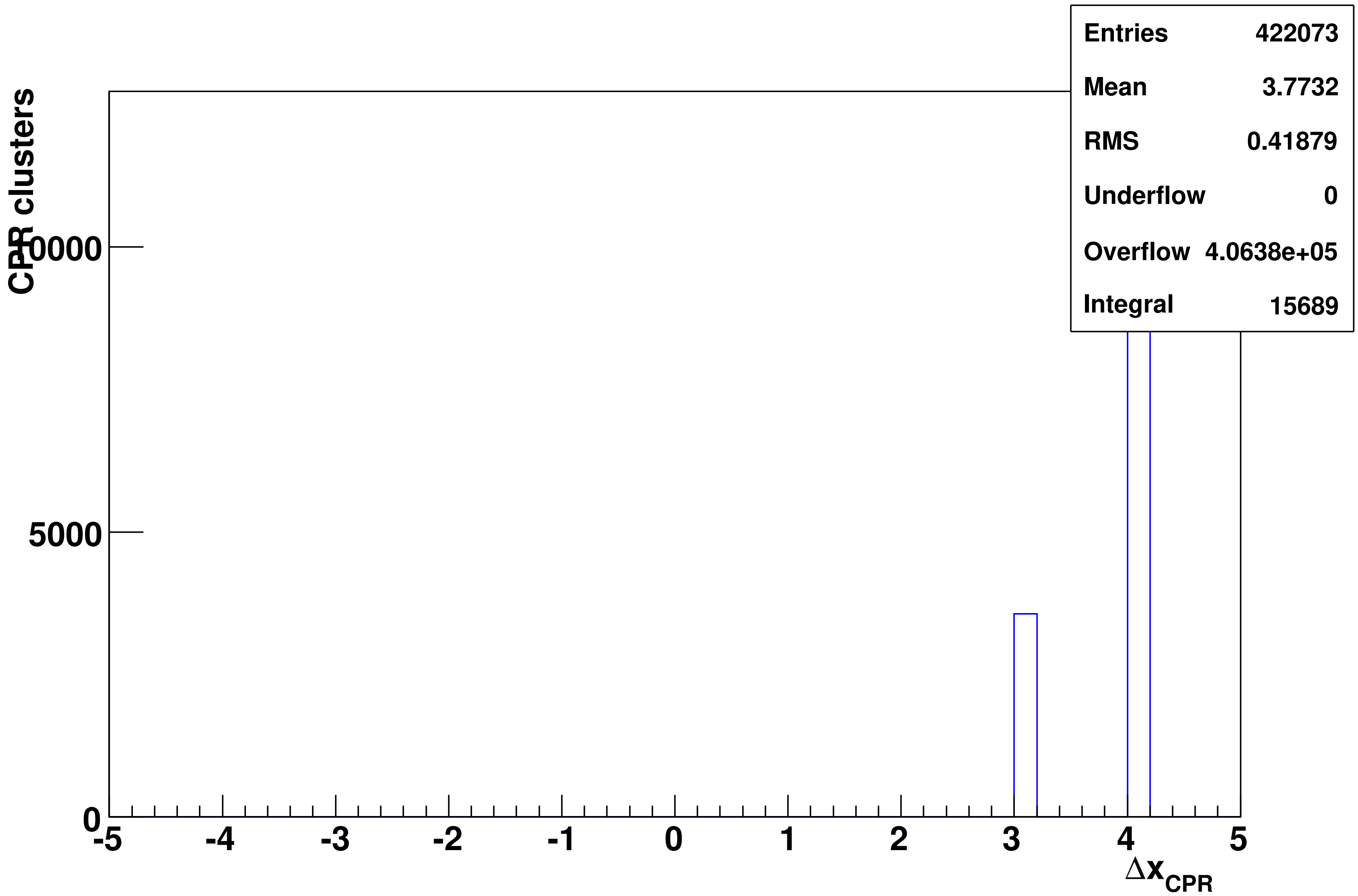

Entries 422073
Mean 1.7083
RMS 0.45499
Underflow 0
Overflow 0
Integral 4.2207e+05
$\times10^3$
muons
300
200
100
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
$N_{cosmics}$



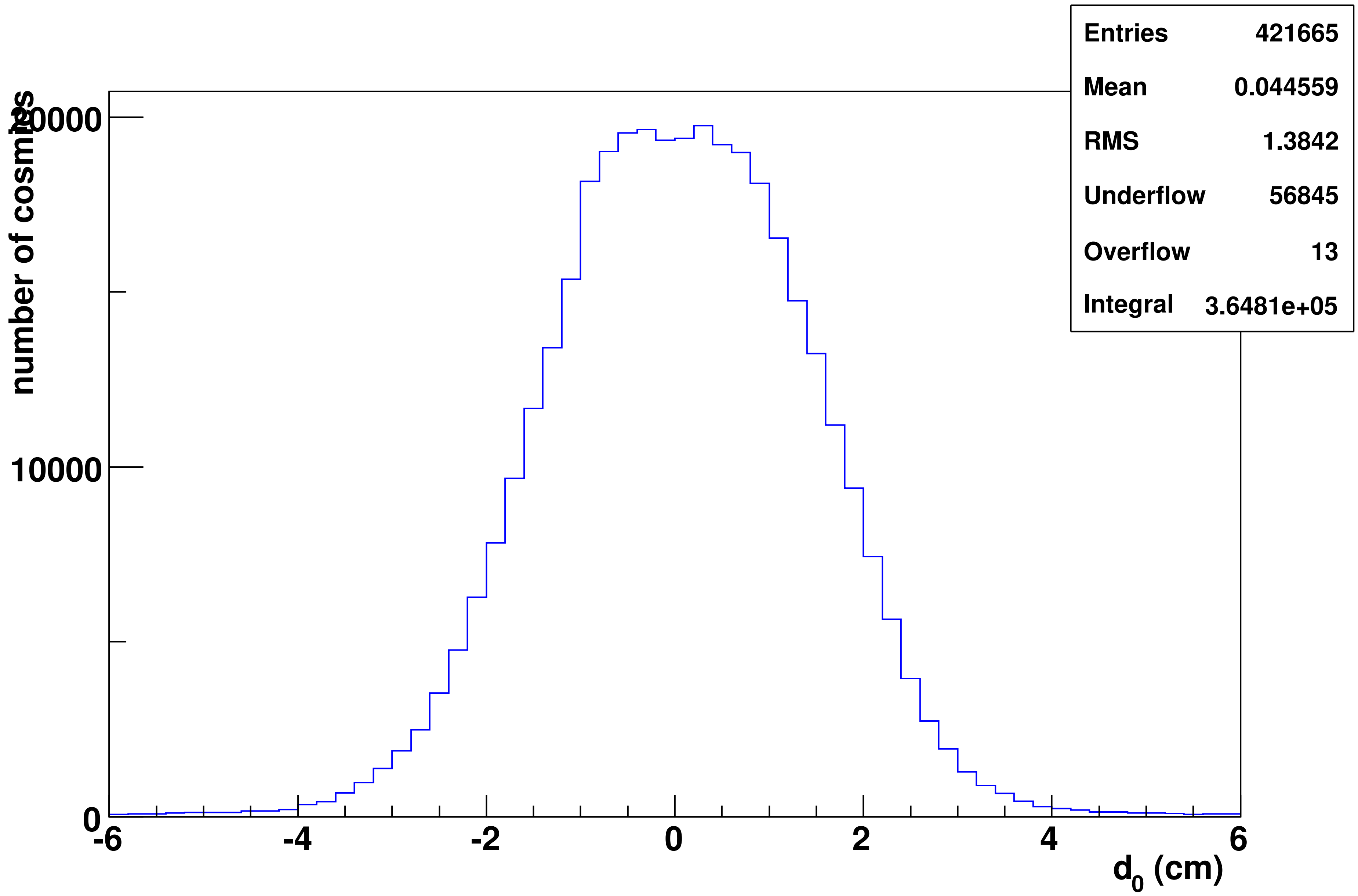
Entries 422073
Mean 2.926
RMS 1.2507
Underflow 0
Overflow 4.137e+05
Integral 8374
CPR clusters
3000
2000
1000
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_{CPR}



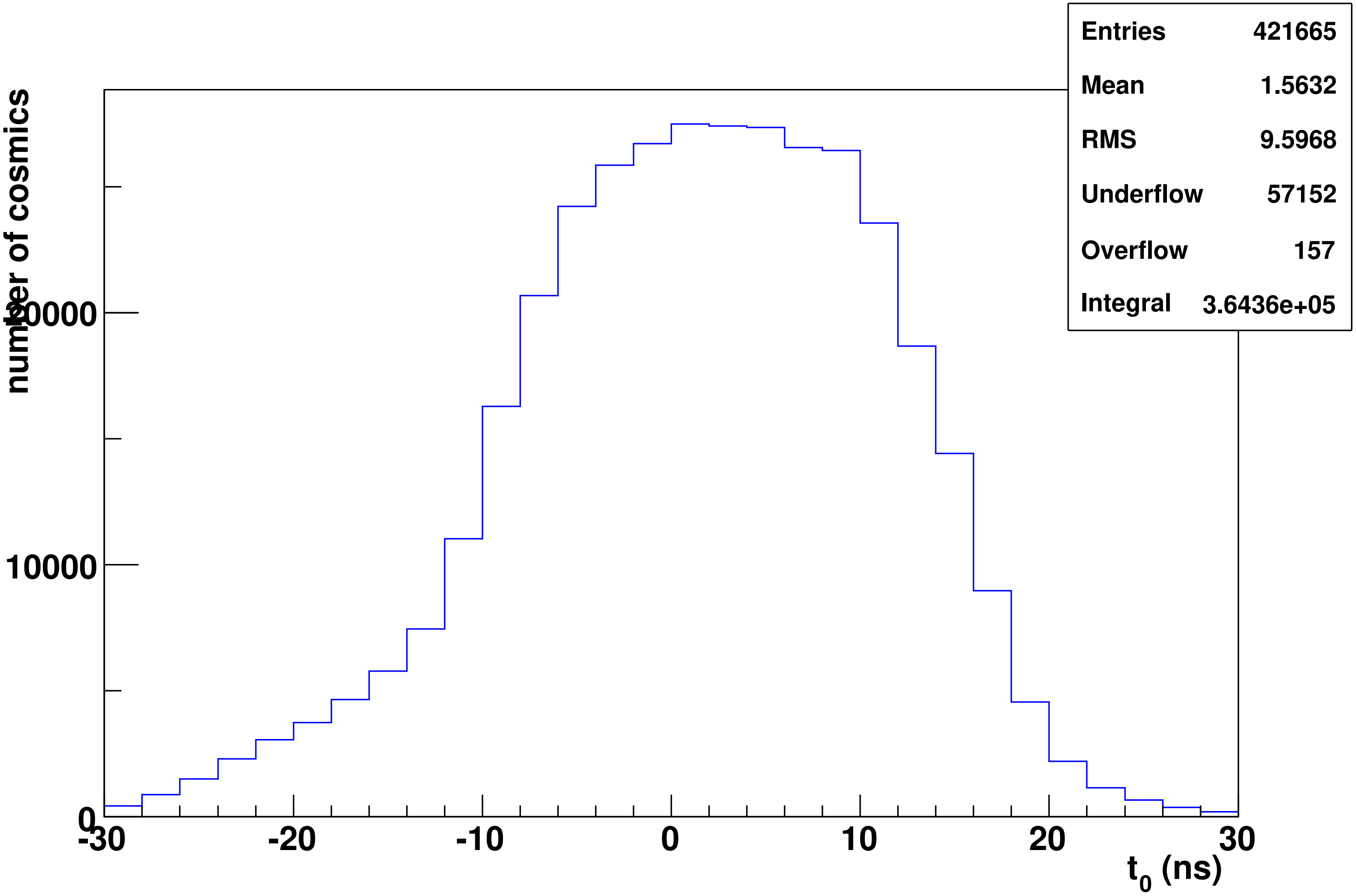
Entries 422073
Mean 0.35173
RMS 0.46945
Underflow1.2351e+05
Overflow 0
Integral 2.9857e+05
×10^3
CPR clusters
300
200
100
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
E_CPR



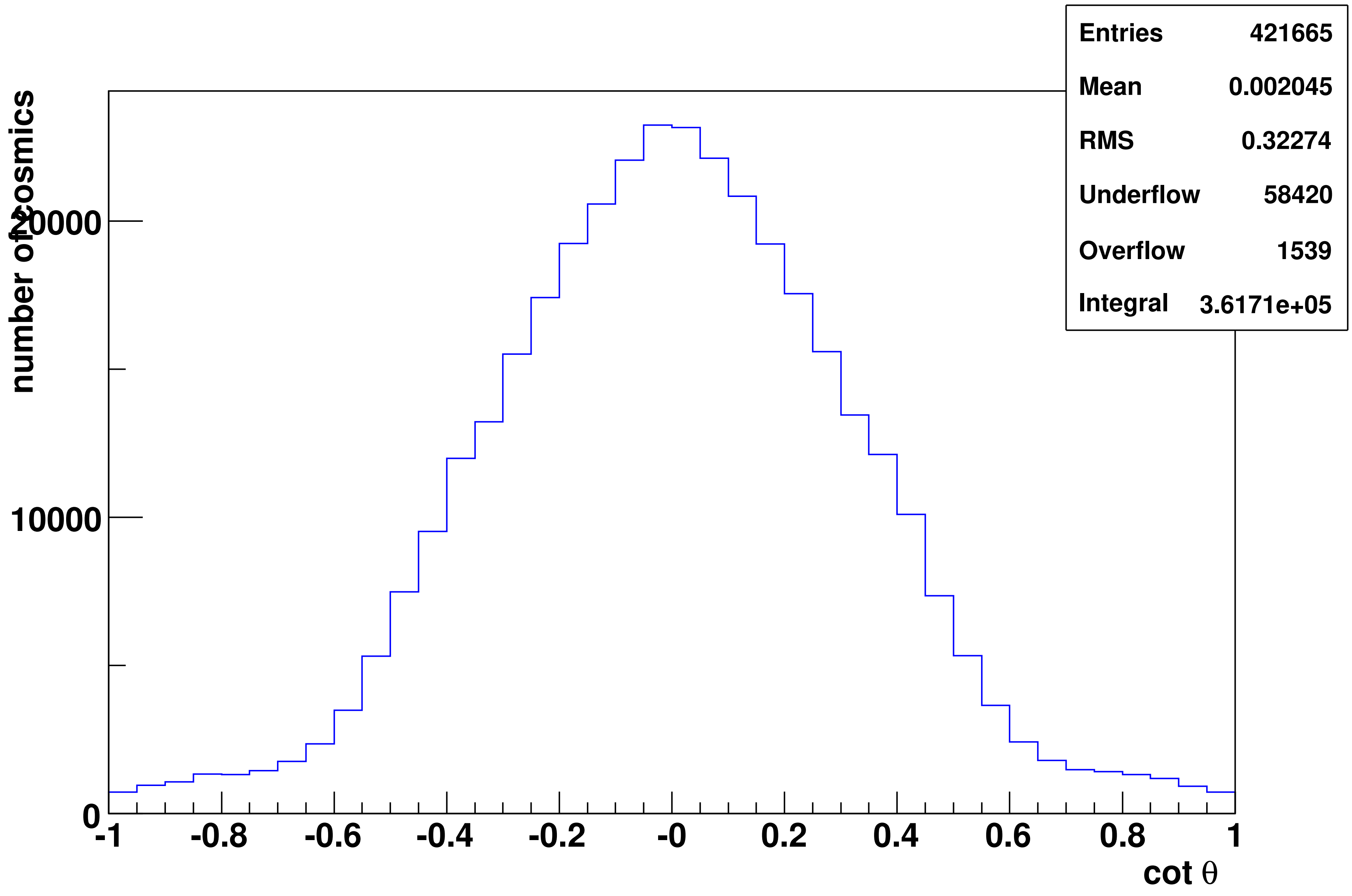
Entries 422073
Mean 3.7732
RMS 0.41879
Underflow 0
Overflow 4.0638e+05
Integral 15689
CPR clusters
0
5000
10000
-5
-4
-3
-2
-1
0
1
2
3
4
5
Δx_{CPR}



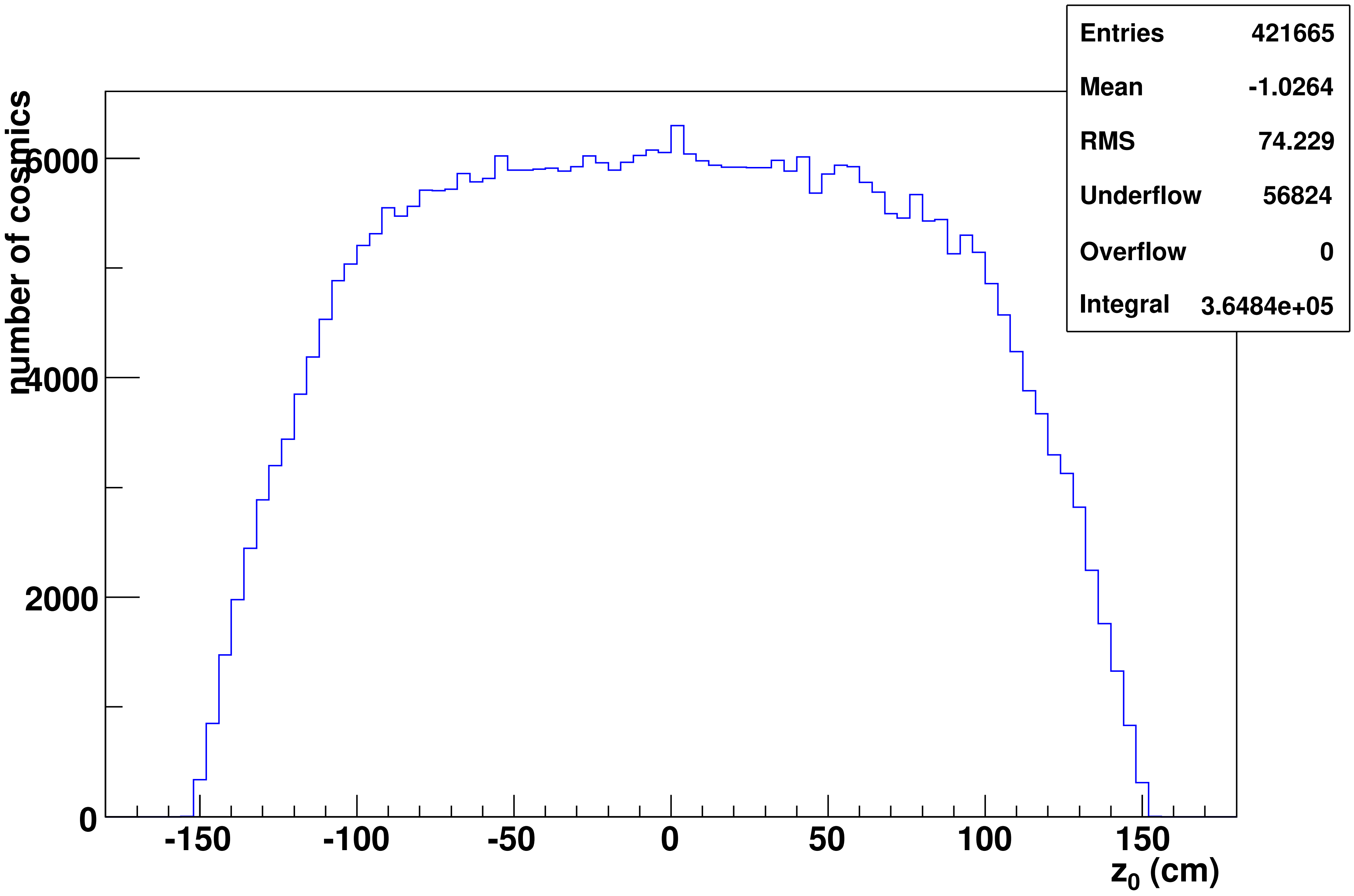
Entries 421665
Mean 0.044559
RMS 1.3842
Underflow 56845
Overflow 13
Integral 3.6481e+05
number of cosmics
20000
10000
0
-6
-4
-2
0
2
4
6
d_0 (cm)



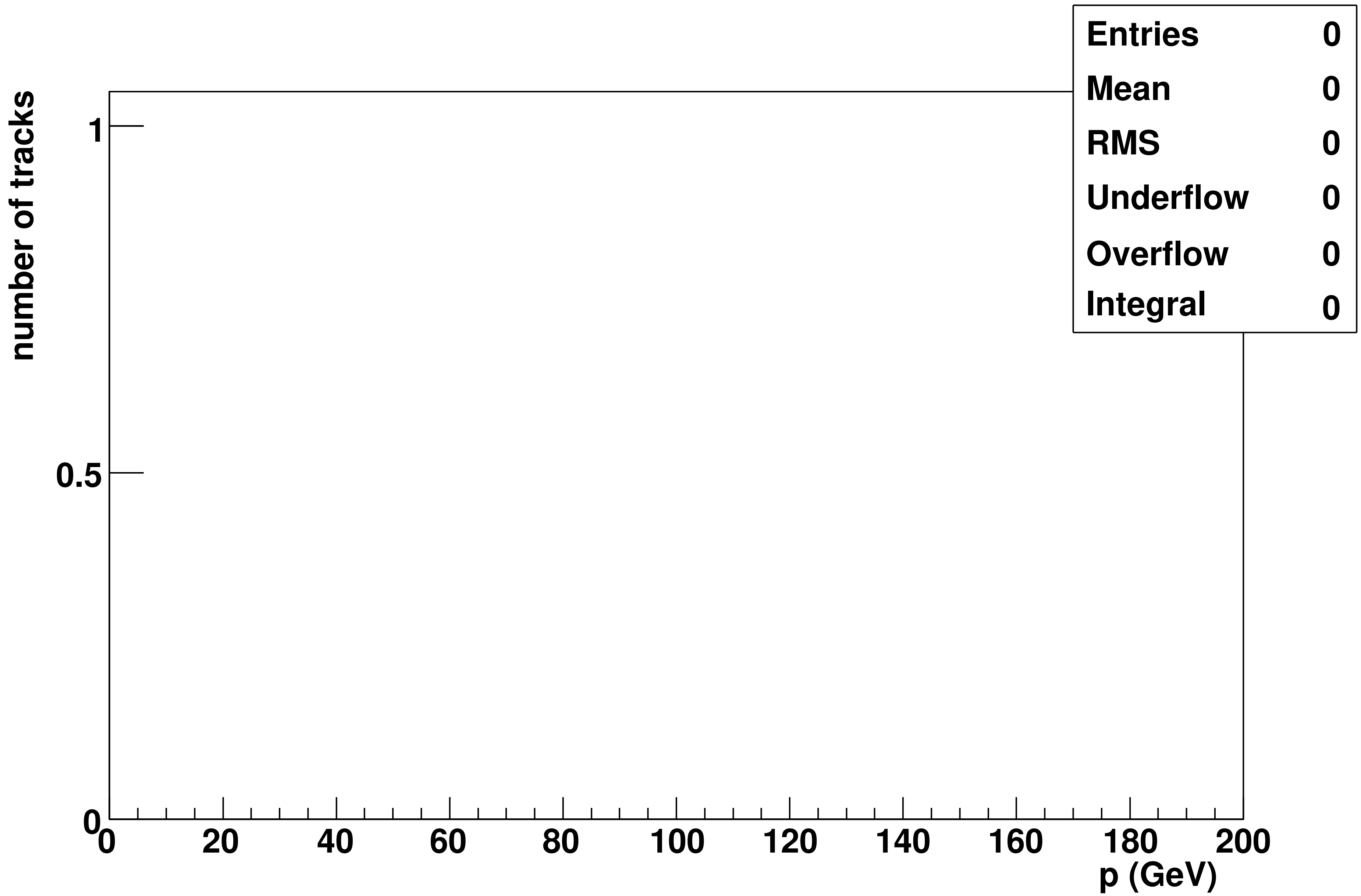
Entries 421665
Mean 1.5632
RMS 9.5968
Underflow 57152
Overflow 157
Integral 3.6436e+05
number of cosmics
0
10000
20000
-30
-20
-10
0
10
20
30
t_0 (ns)

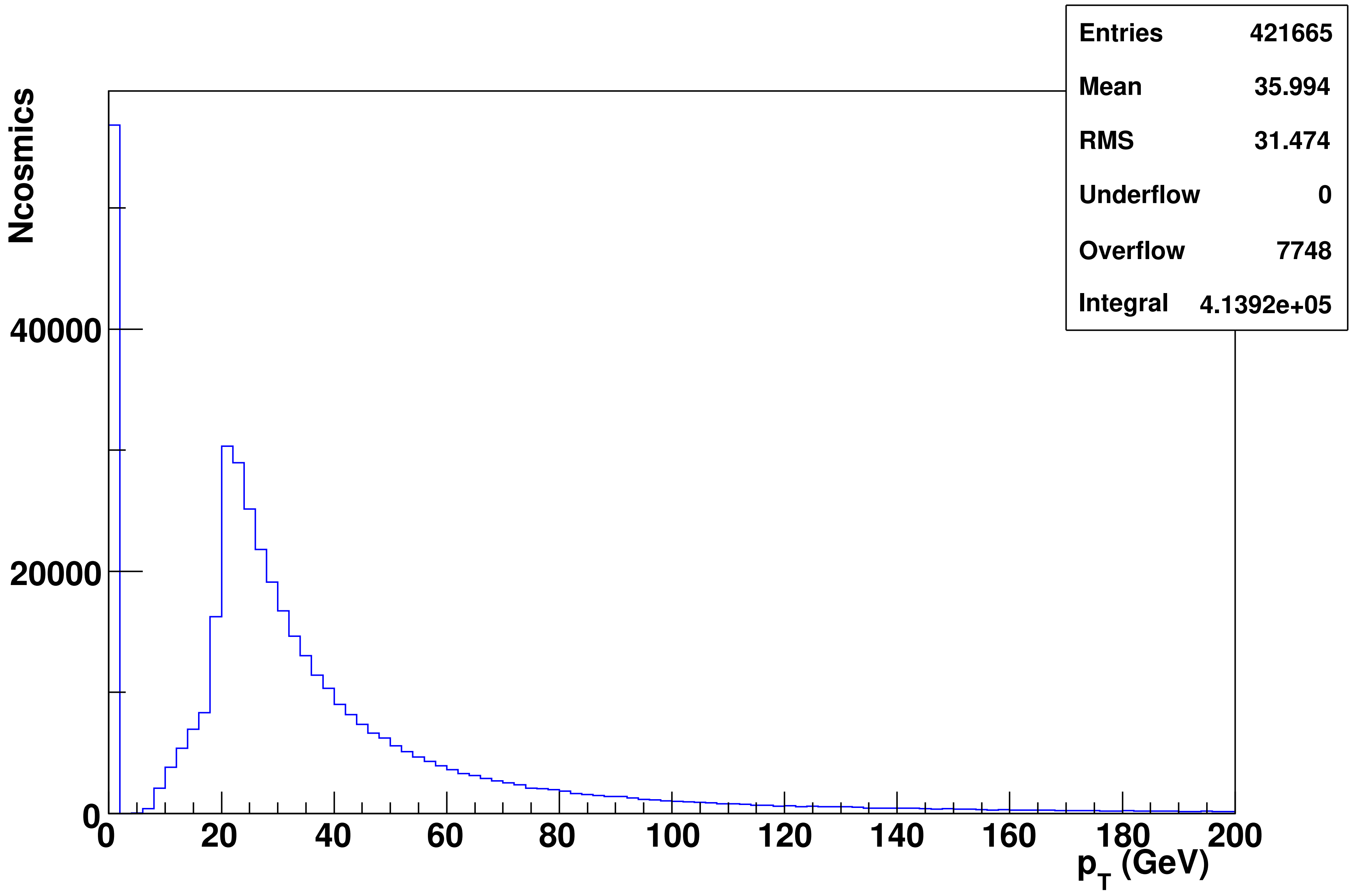


Entries 421665
Mean 0.002045
RMS 0.32274
Underflow 58420
Overflow 1539
Integral 3.6171e+05
number of cosmics
0
10000
20000
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
cot θ

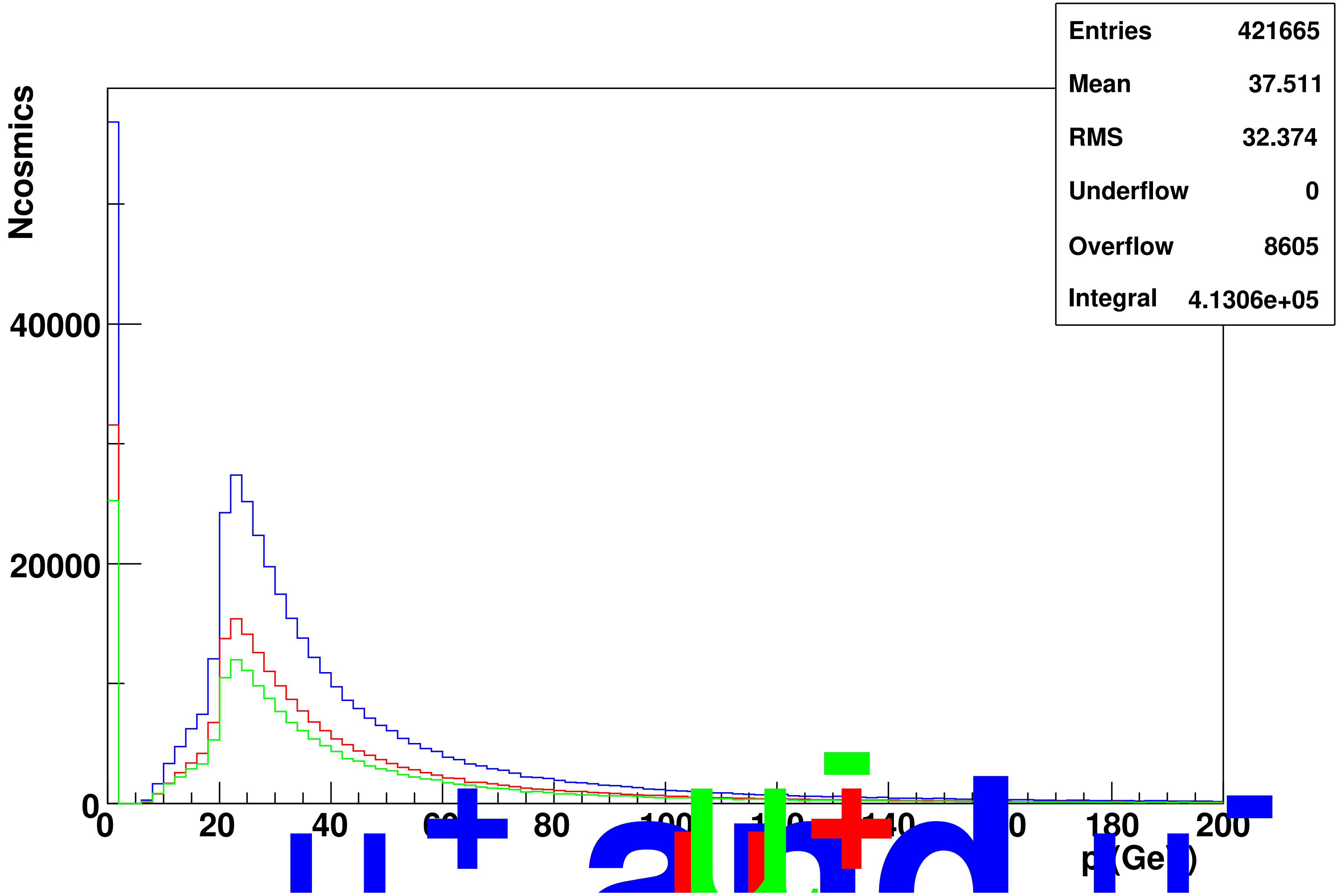


Entries 421665
Mean -1.0264
RMS 74.229
Underflow 56824
Overflow 0
Integral 3.6484e+05
number of cosmics
0
2000
4000
6000
-150
-100
-50
0
50
100
150
z_0 (cm)

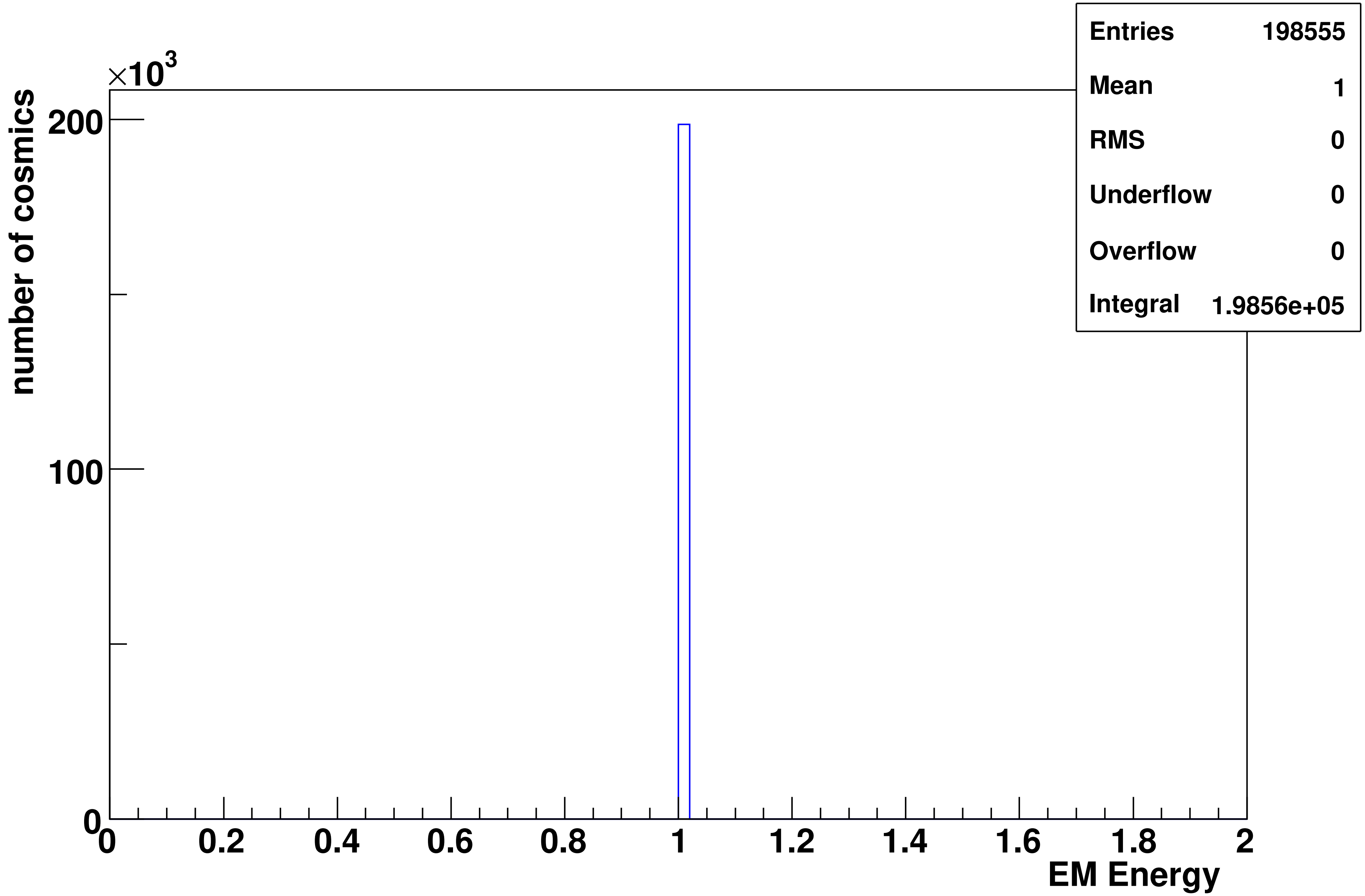

Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
Integral 0
number of tracks
1
0.5
0
0
20
40
60
80
100
120
140
160
180
200
p (GeV)



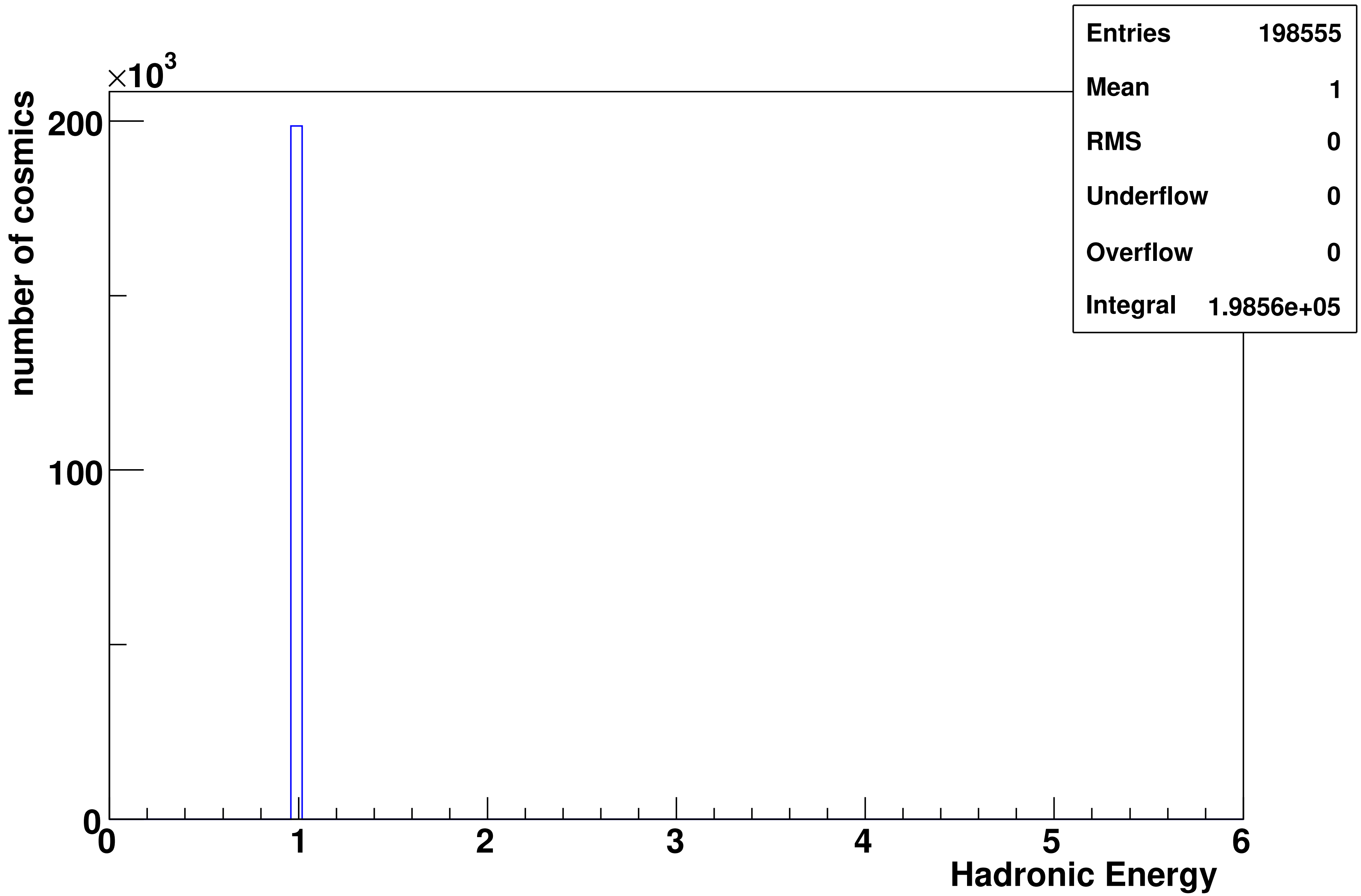
Entries 421665
Mean 35.994
RMS 31.474
Underflow 0
Overflow 7748
Integral 4.1392e+05
Ncosmics
0
20000
40000
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV)



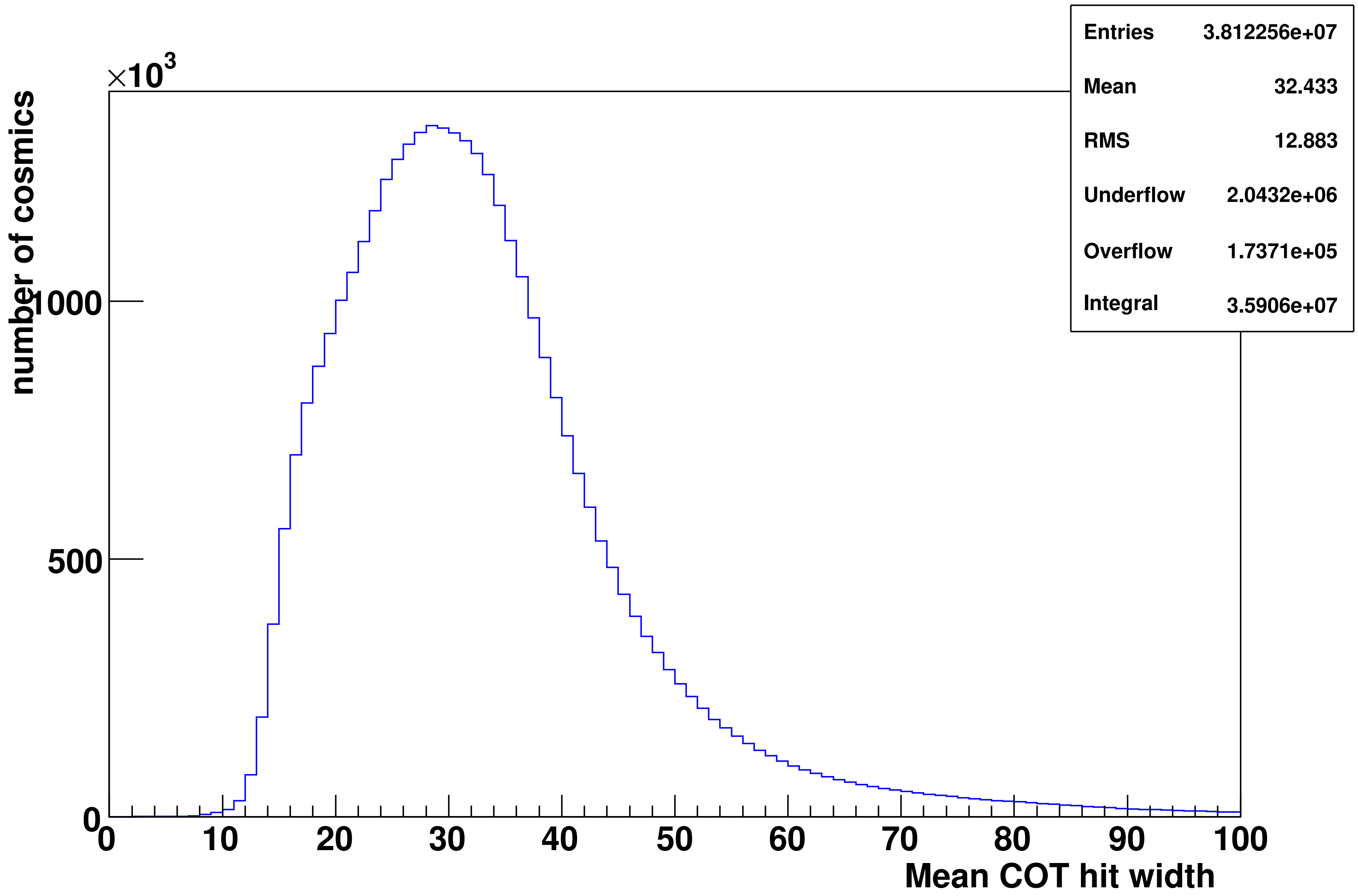
Entries 421665
Mean 37.511
RMS 32.374
Underflow 0
Overflow 8605
Integral 4.1306e+05
Ncosmics
40000
20000
0
0
20
40
80
180
200

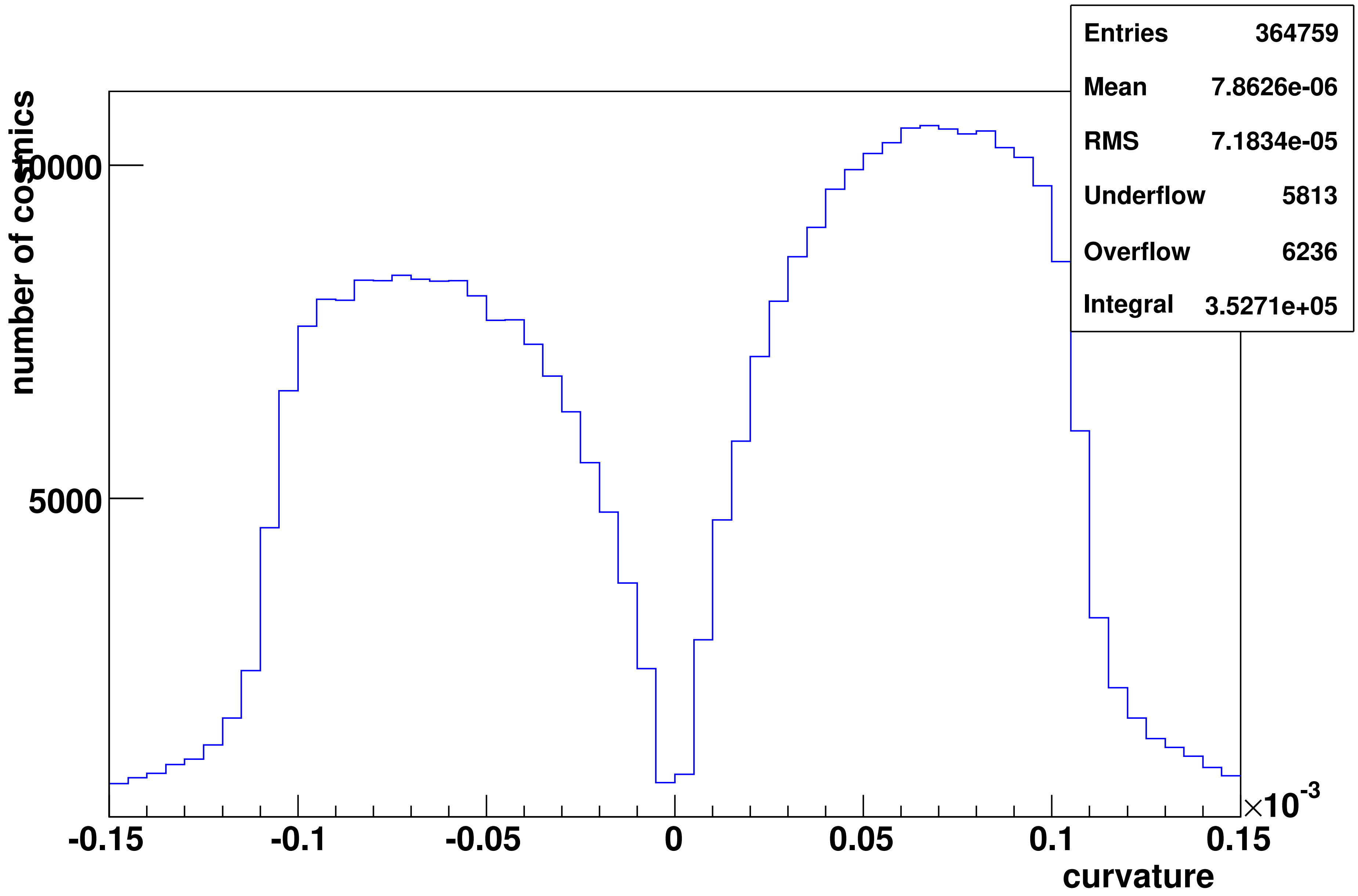


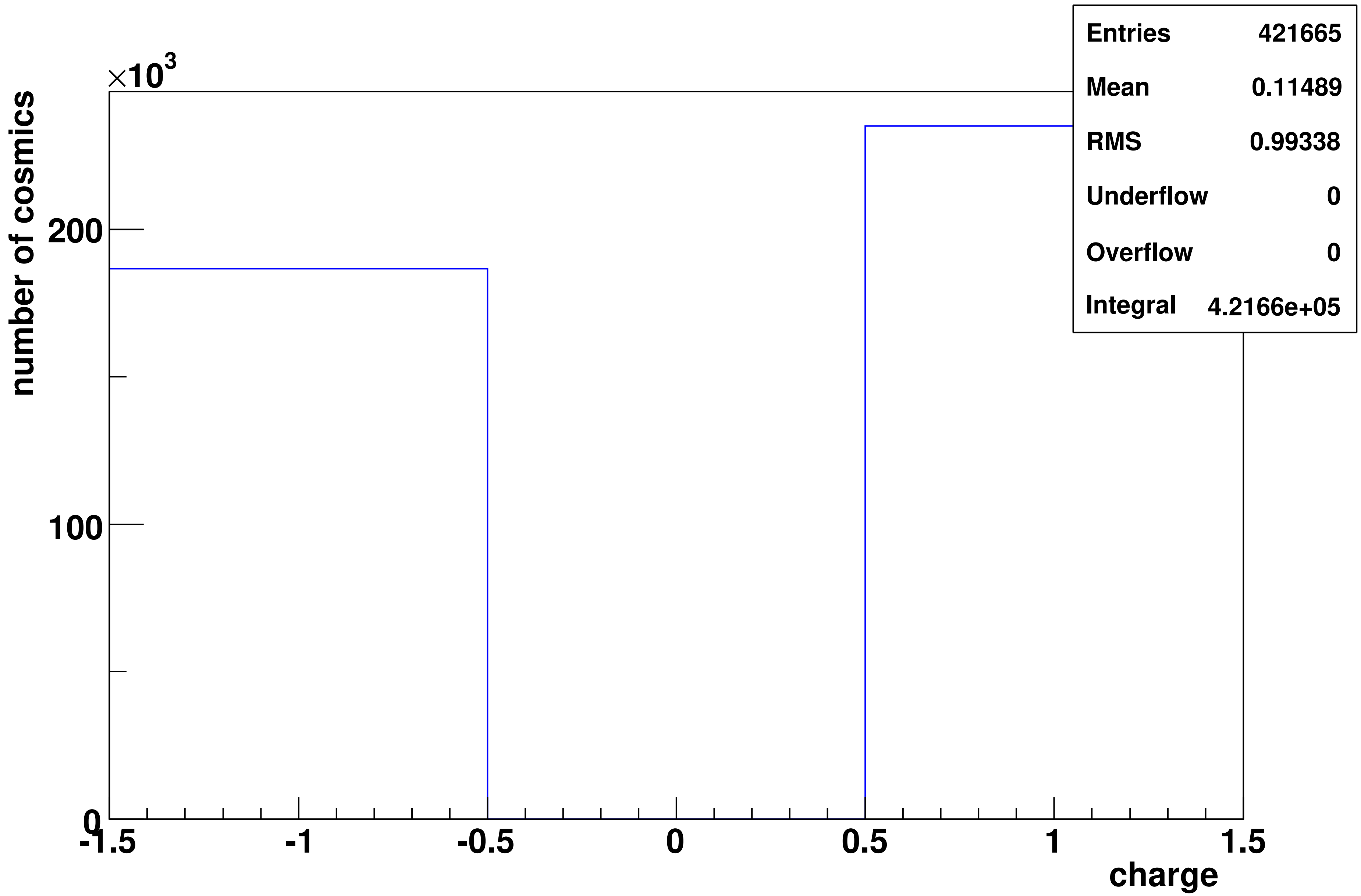
Entries 198555
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 1.9856e+05
×10^3
number of cosmics
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
EM Energy



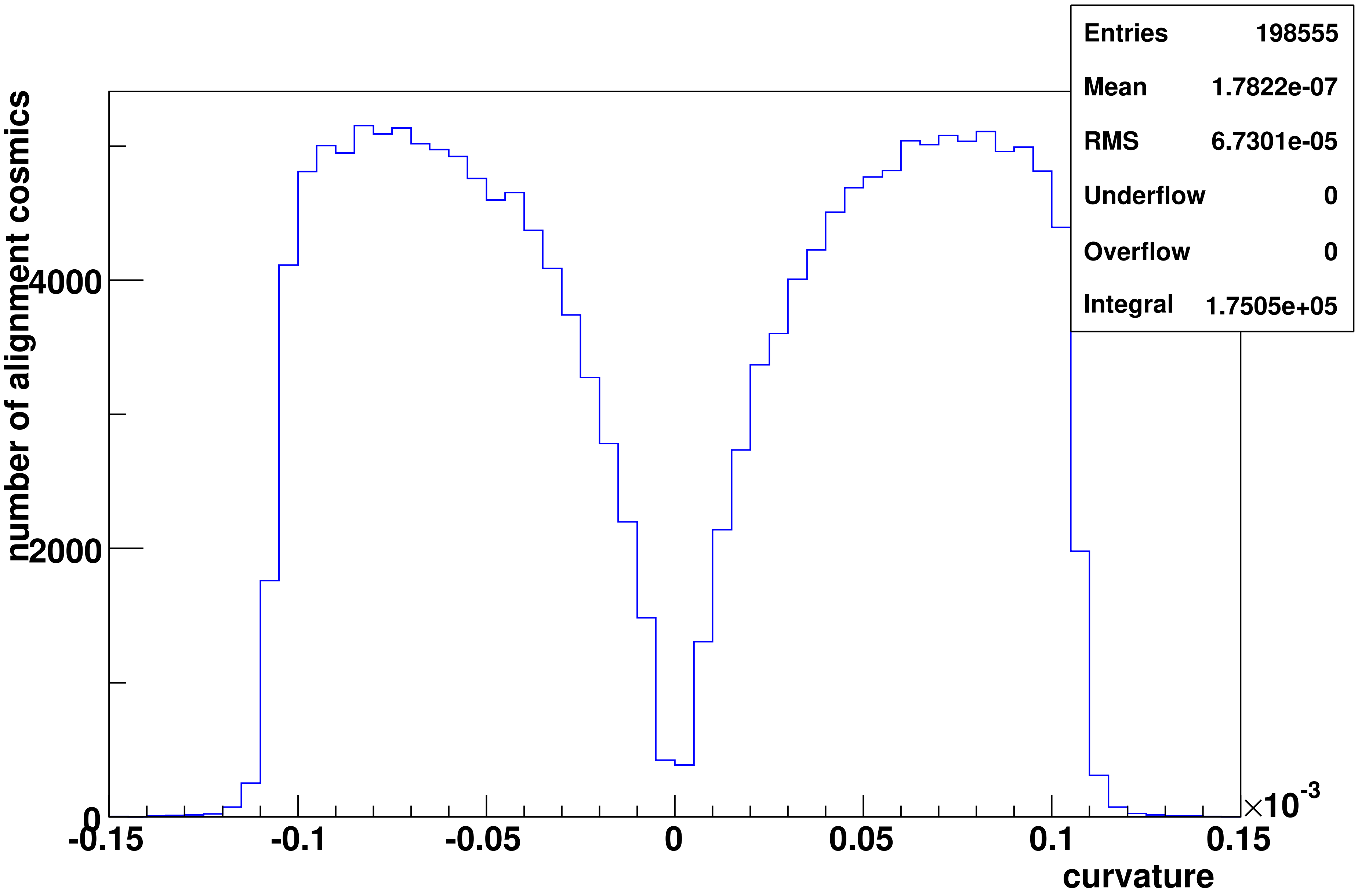
Entries 198555
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 1.9856e+05
×10^3
number of cosmics
200
100
0
0
1
2
3
4
5
6
Hadronic Energy


Entries 3.812256e+07
Mean 32.433
RMS 12.883
Underflow 2.0432e+06
Overflow 1.7371e+05
Integral 3.5906e+07
$\times 10^3$
number of cosmics
1000
500
0
0 10 20 30 40 50 60 70 80 90 100
Mean COT hit width

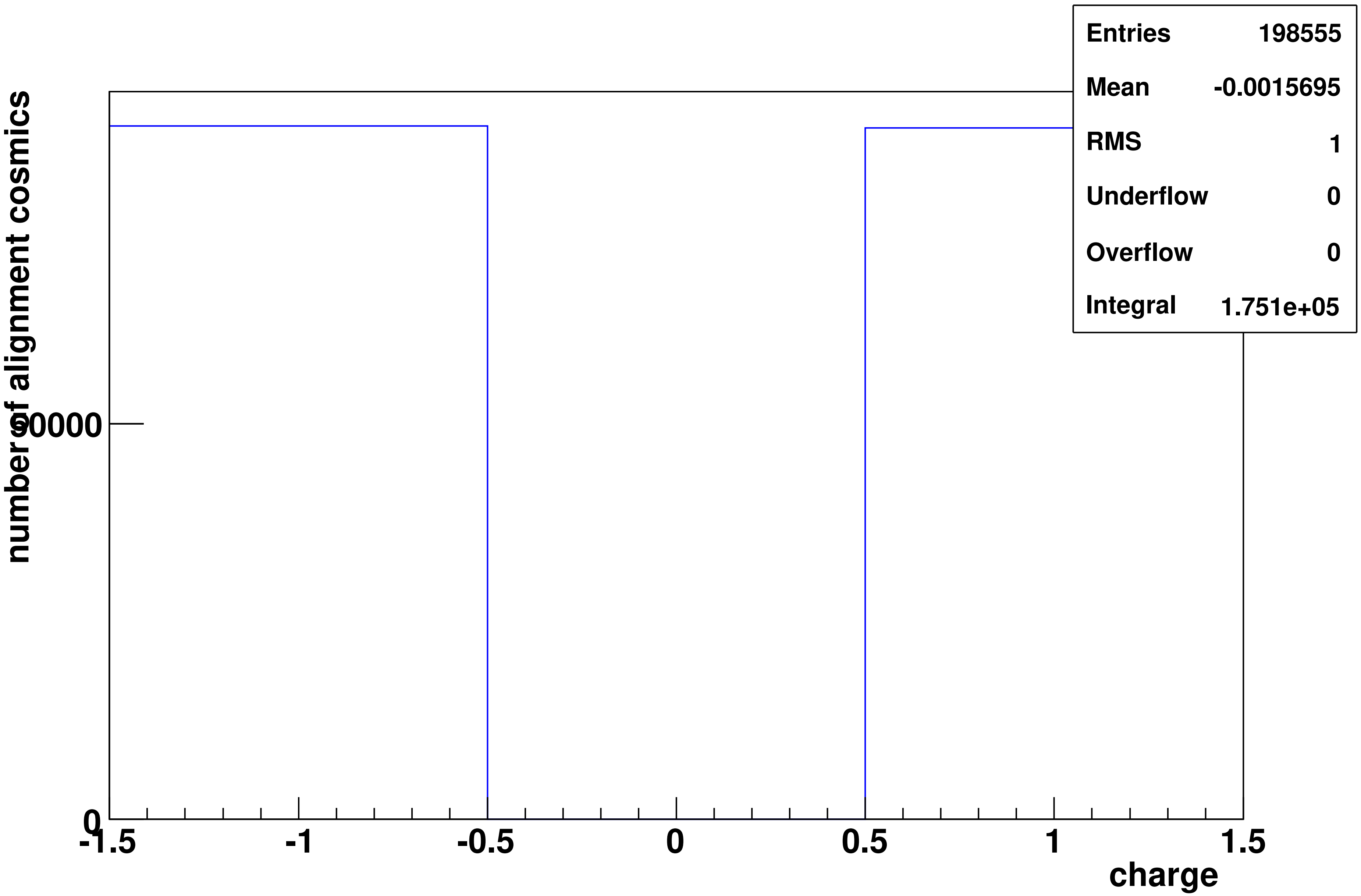

Entries 364759
Mean 7.8626e-06
RMS 7.1834e-05
Underflow 5813
Overflow 6236
Integral 3.5271e+05
number of cosmics
5000
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature



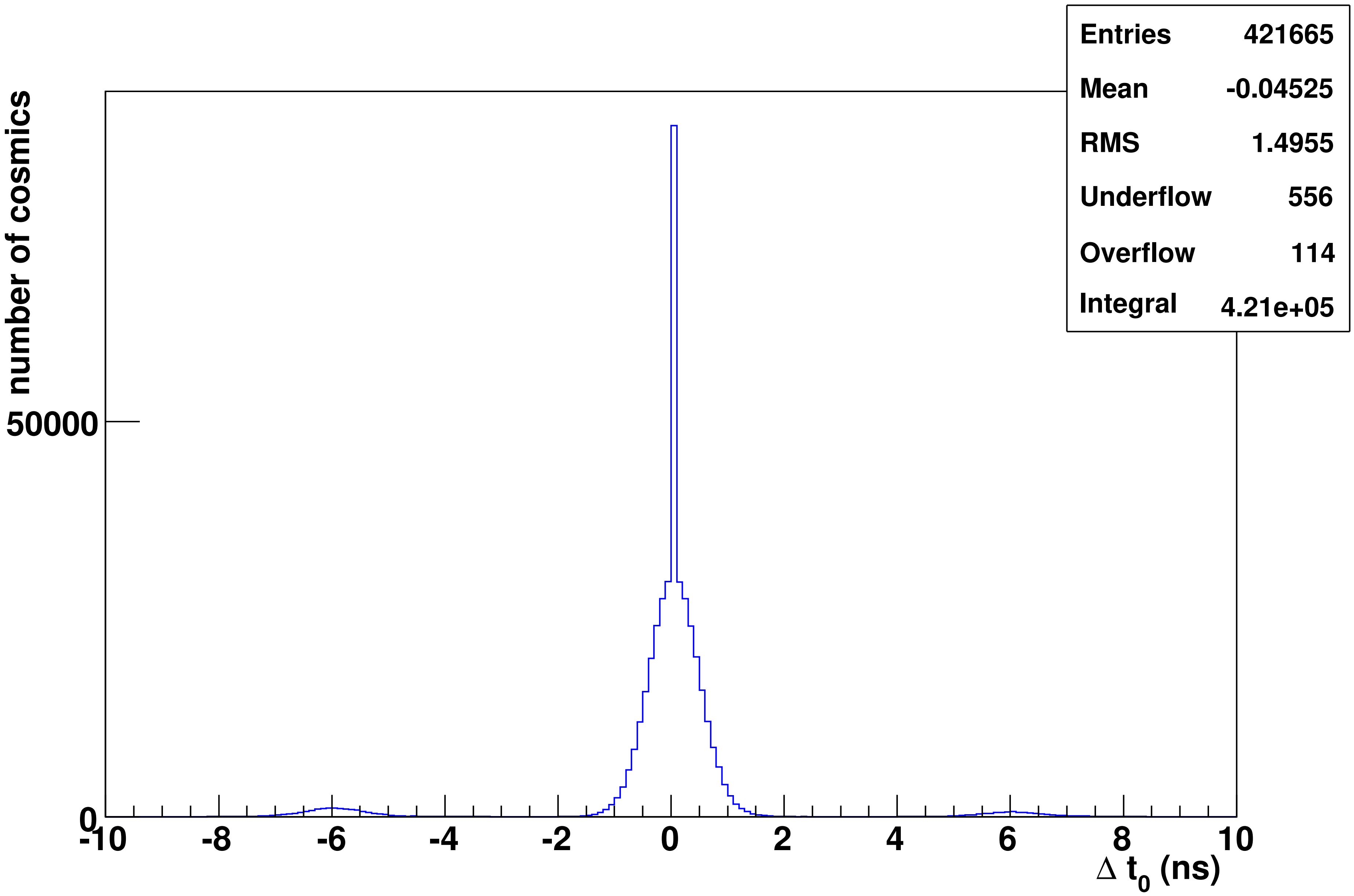
Entries 421665
Mean 0.11489
RMS 0.99338
Underflow 0
Overflow 0
Integral 4.2166e+05
×10^3
number of cosmics
200
100
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge



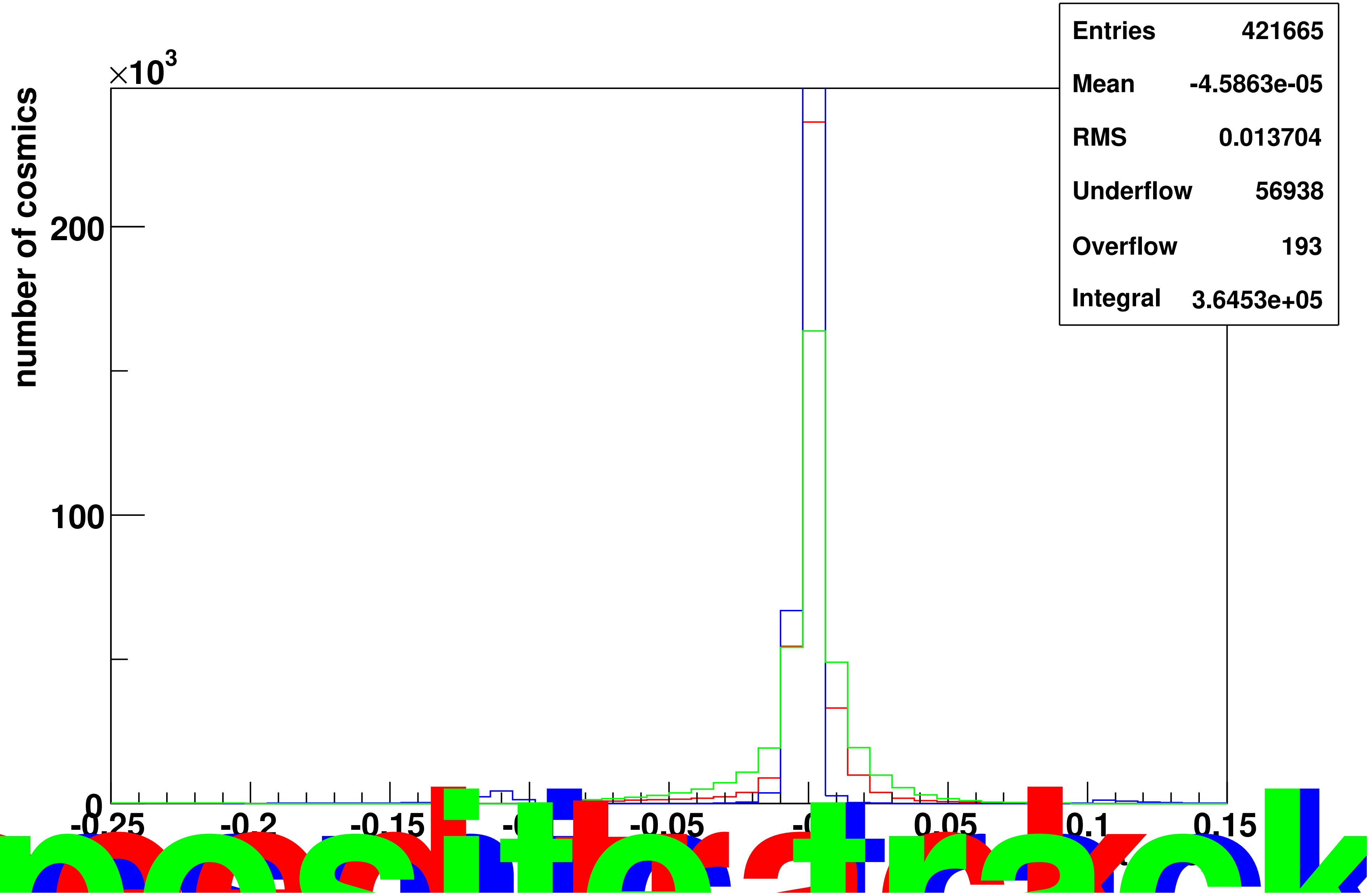
Entries 198555
Mean 1.7822e-07
RMS 6.7301e-05
Underflow 0
Overflow 0
Integral 1.7505e+05
number of alignment cosmics
4000
2000
0
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
$\times 10^{-3}$
curvature



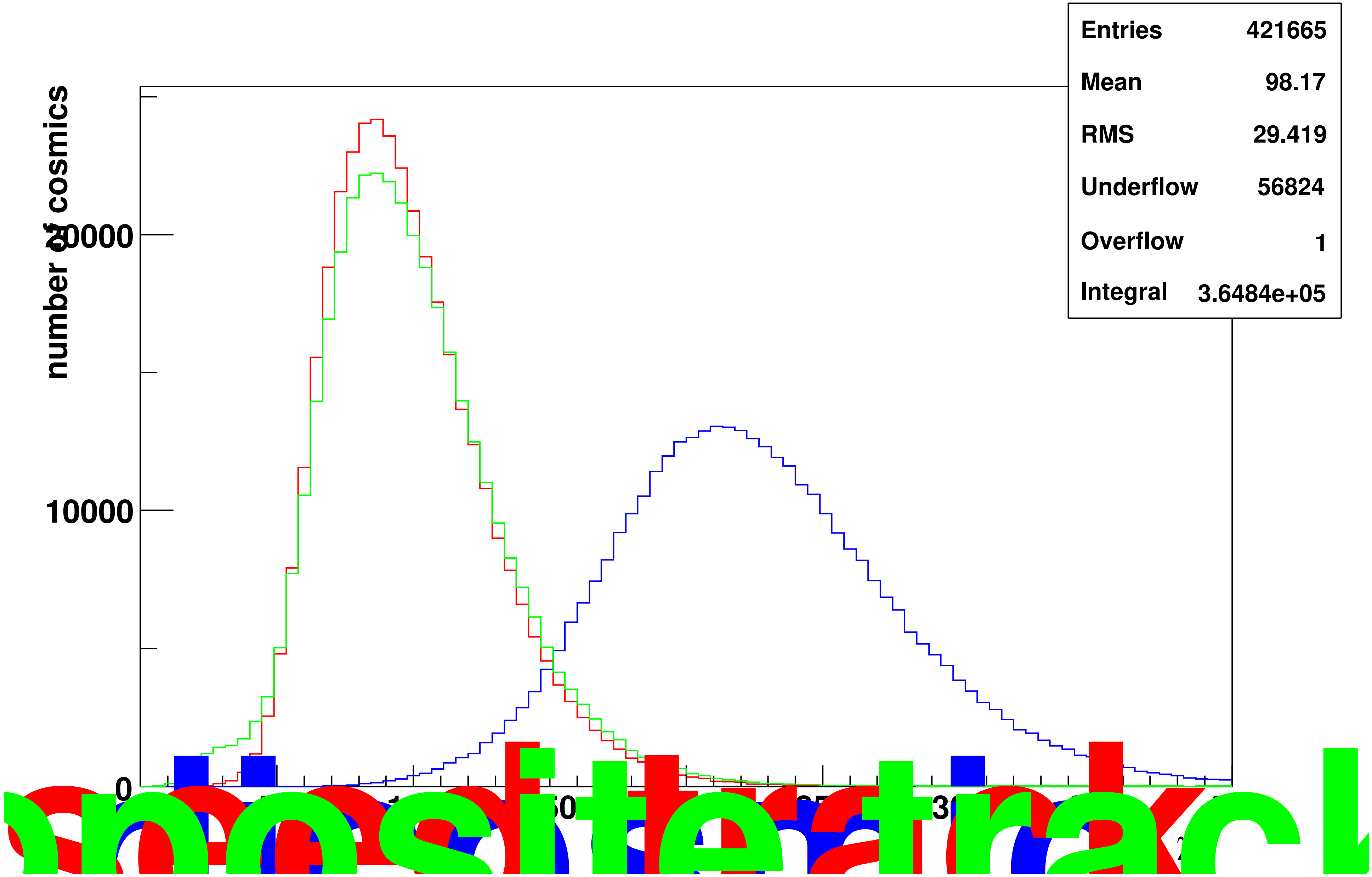
Entries 198555
Mean -0.0015695
RMS 1
Underflow 0
Overflow 0
Integral 1.751e+05
number of alignment cosmics
50000
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

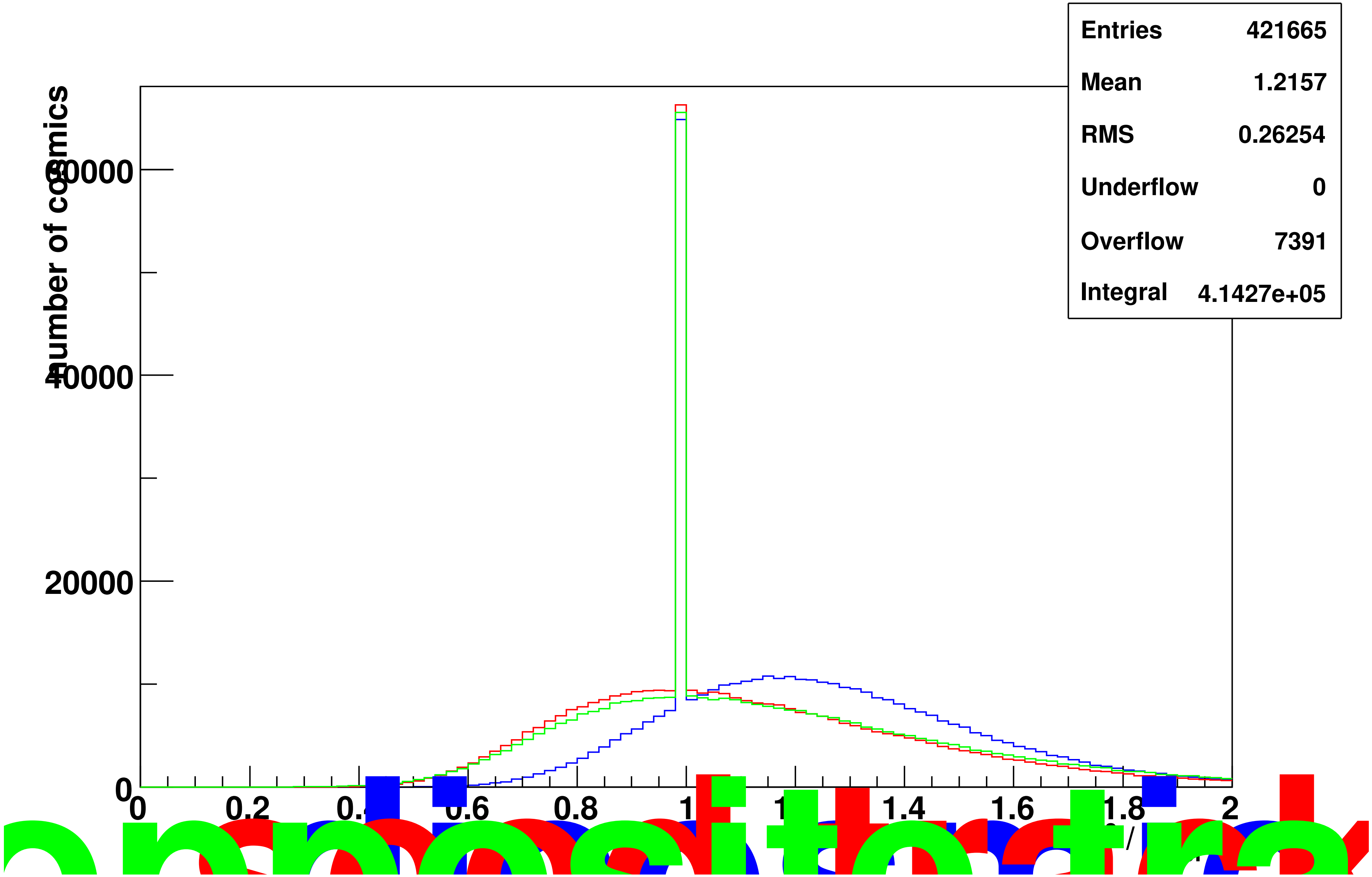


Entries 421665
Mean -0.04525
RMS 1.4955
Underflow 556
Overflow 114
Integral 4.21e+05
number of cosmics
50000
0
-10
-8
-6
-4
-2
0
2
4
6
8
10
Δ t_0 (ns)

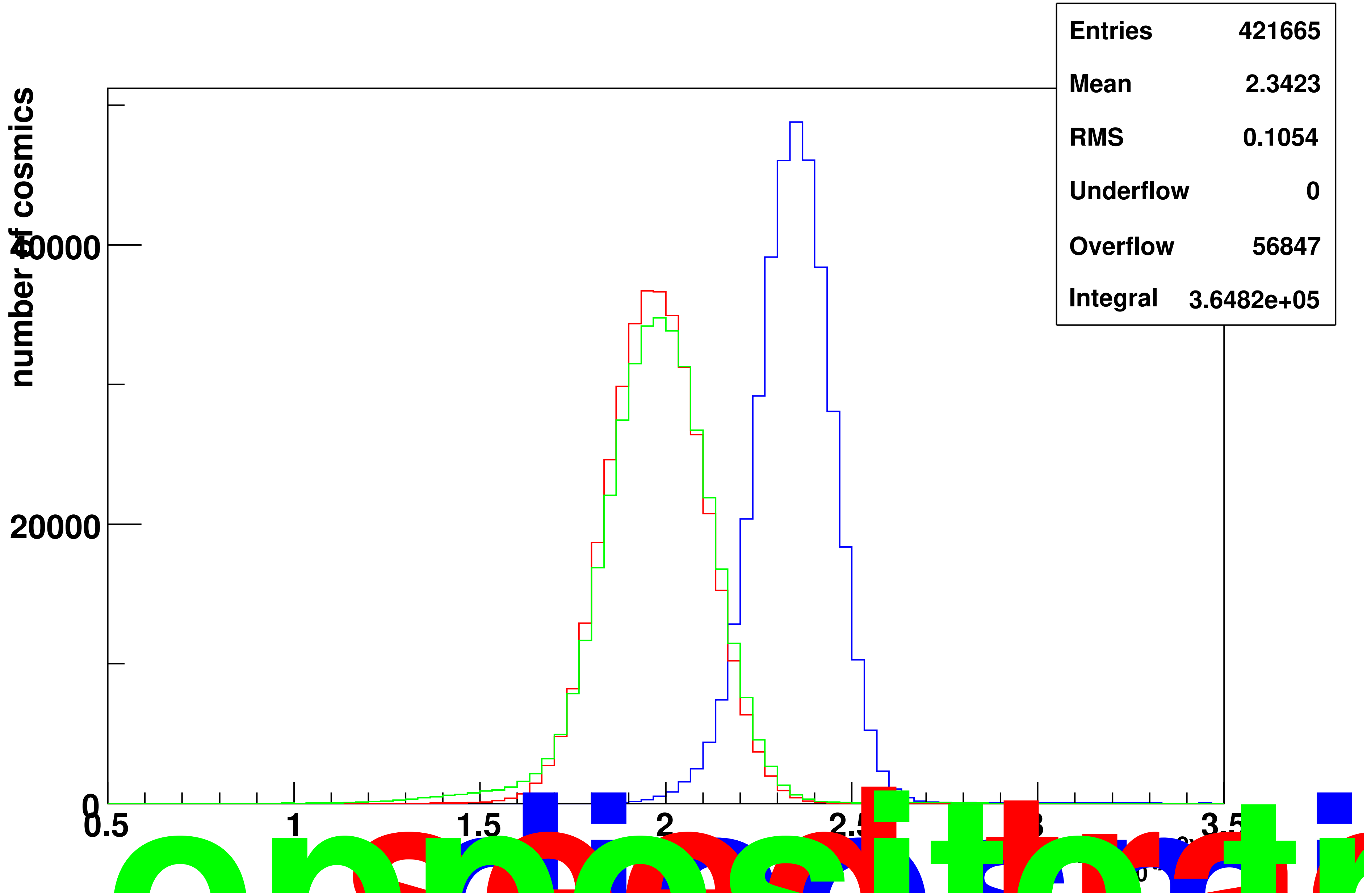


Entries 421665
Mean -4.5863e-05
RMS 0.013704
Underflow 56938
Overflow 193
Integral 3.6453e+05
×10^3
number of cosmics
200
100
0
-0.25
-0.2
-0.15
-0.05
0.05
0.1
0.15

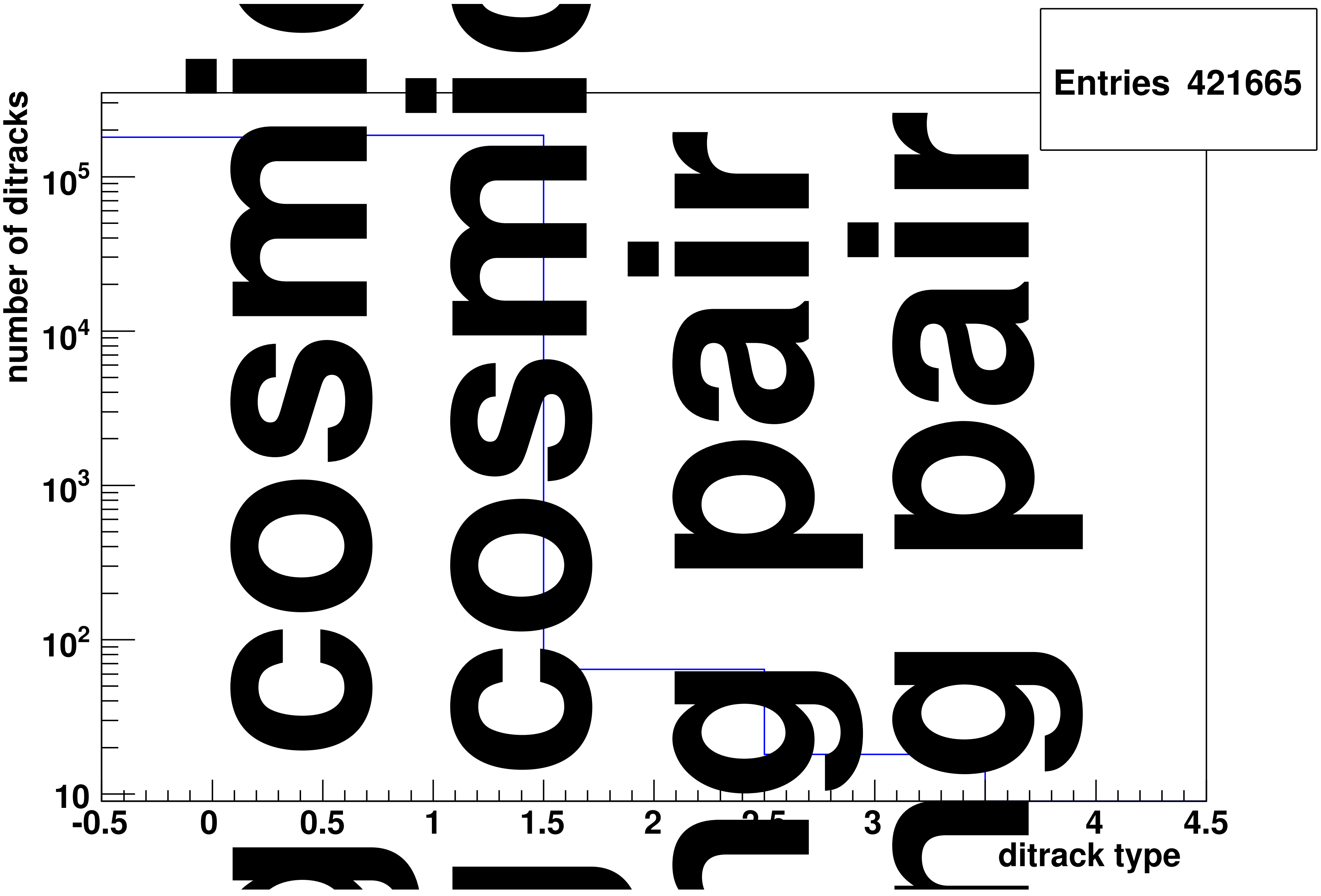

number of cosmics
20000
10000
0
Entries 421665
Mean 98.17
RMS 29.419
Underflow 56824
Overflow 1
Integral 3.6484e+05

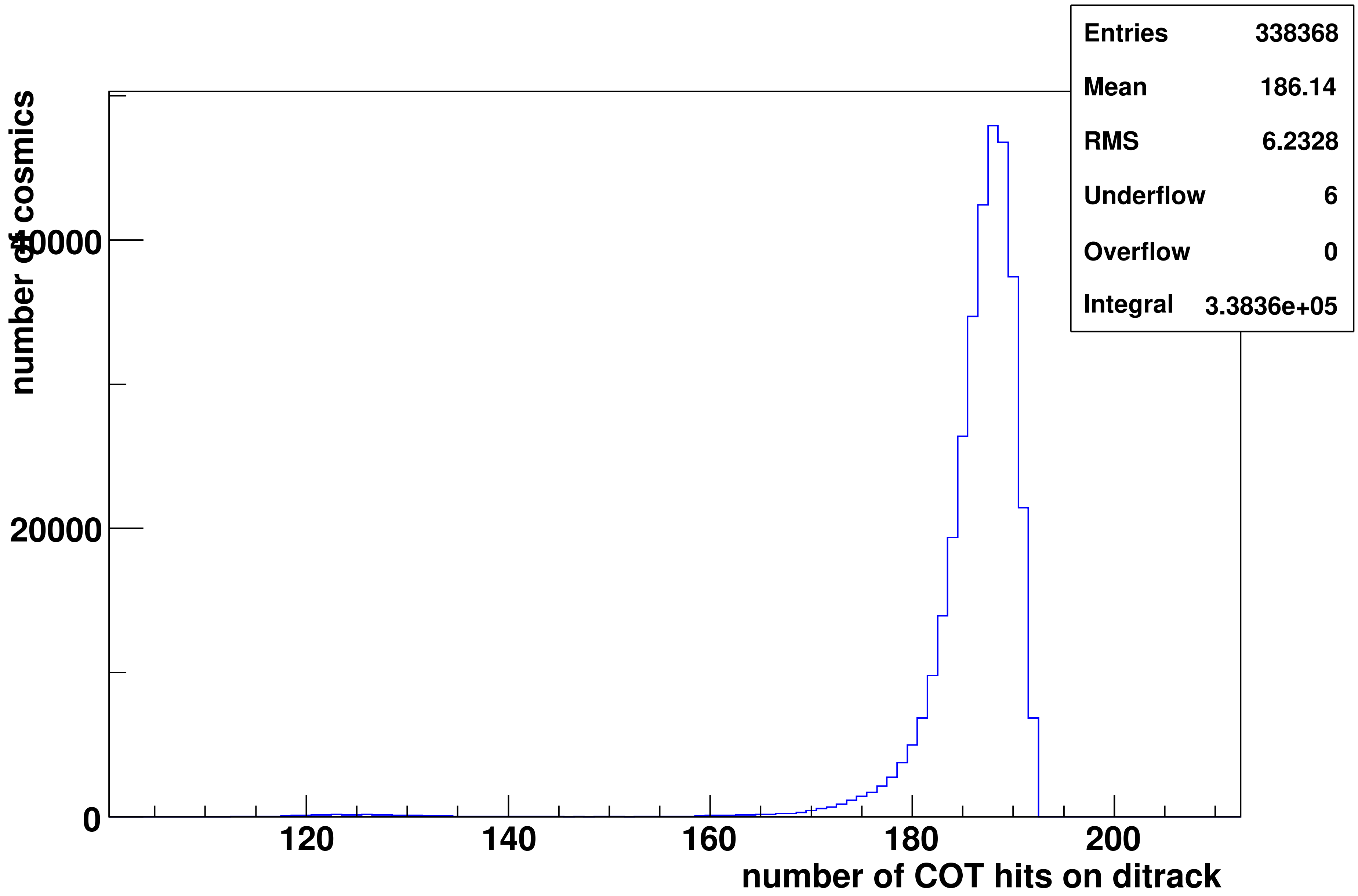


Entries 421665
Mean 1.2157
RMS 0.26254
Underflow 0
Overflow 7391
Integral 4.1427e+05
number of cosmics
0
20000
40000
60000
0
0.2
0.6
0.8
1
1.4
1.6
1.8
2

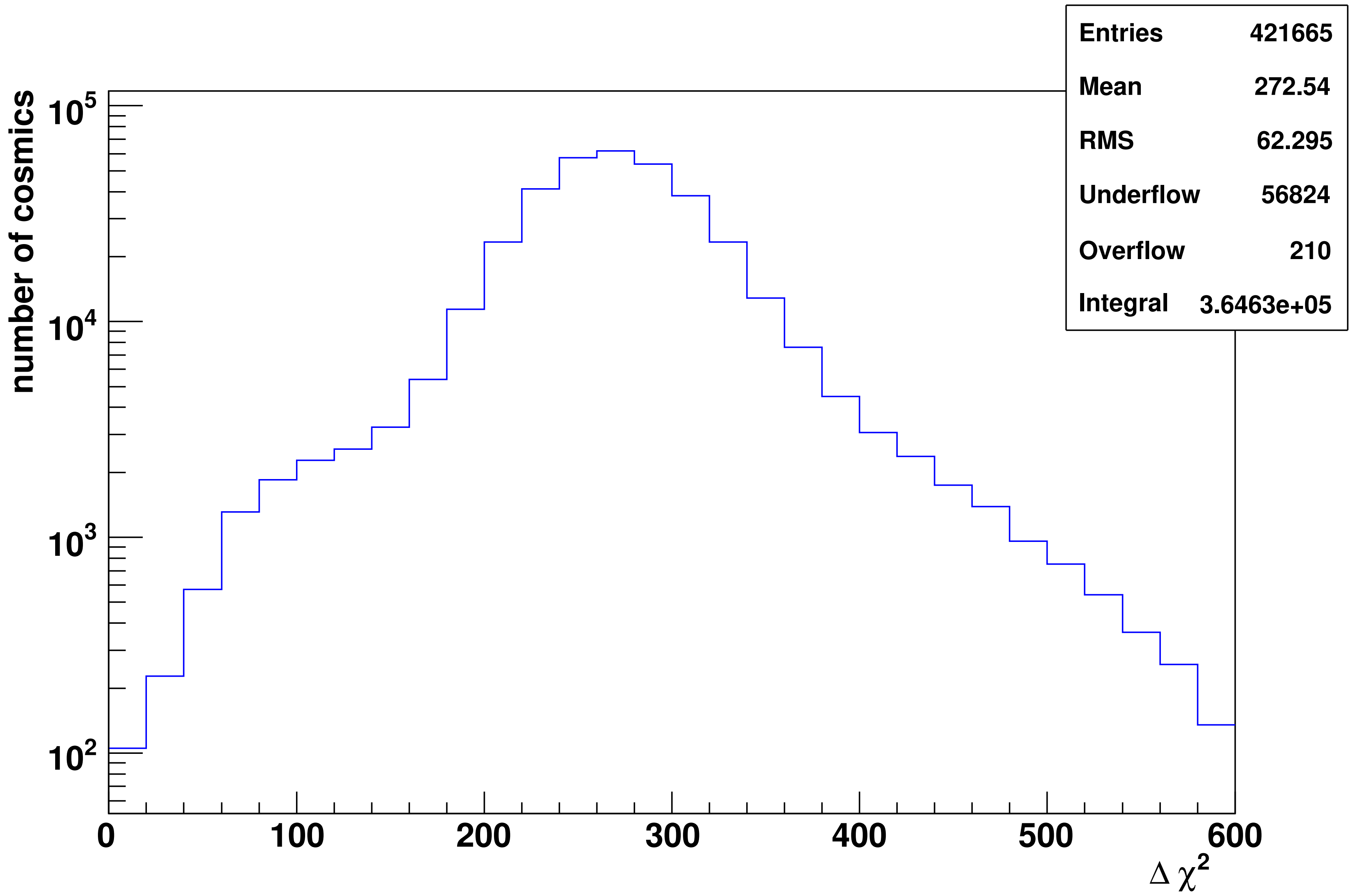


number of cosmics
40000
20000
0
0.5
1
1.5
2
3.5
Entries 421665
Mean 2.3423
RMS 0.1054
Underflow 0
Overflow 56847
Integral 3.6482e+05

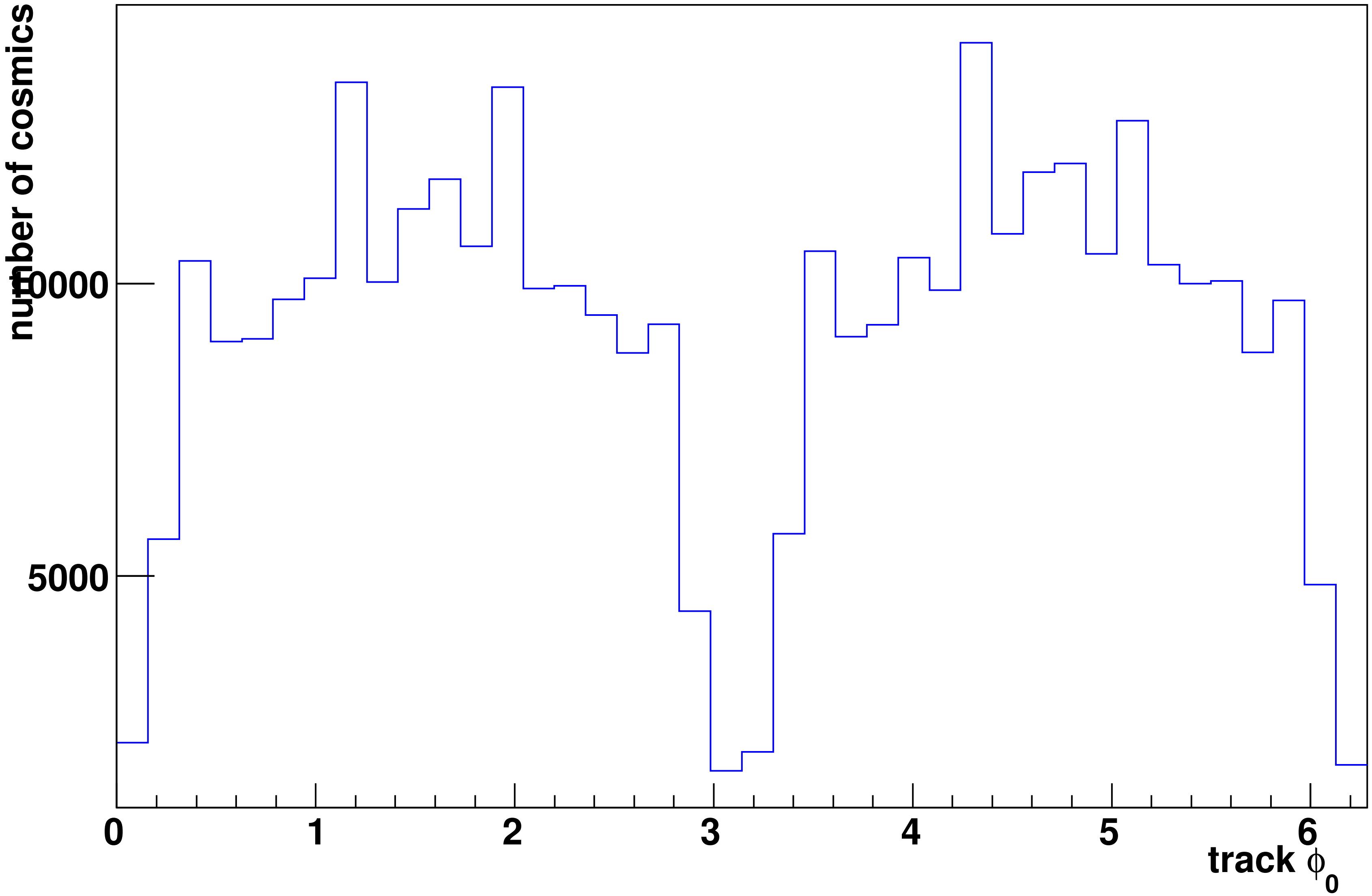

Entries 421665
number of ditracks
10^5
10^4
10^3
10^2
10
-0.5
0
0.5
1
1.5
2
3
4
4.5
ditrack type

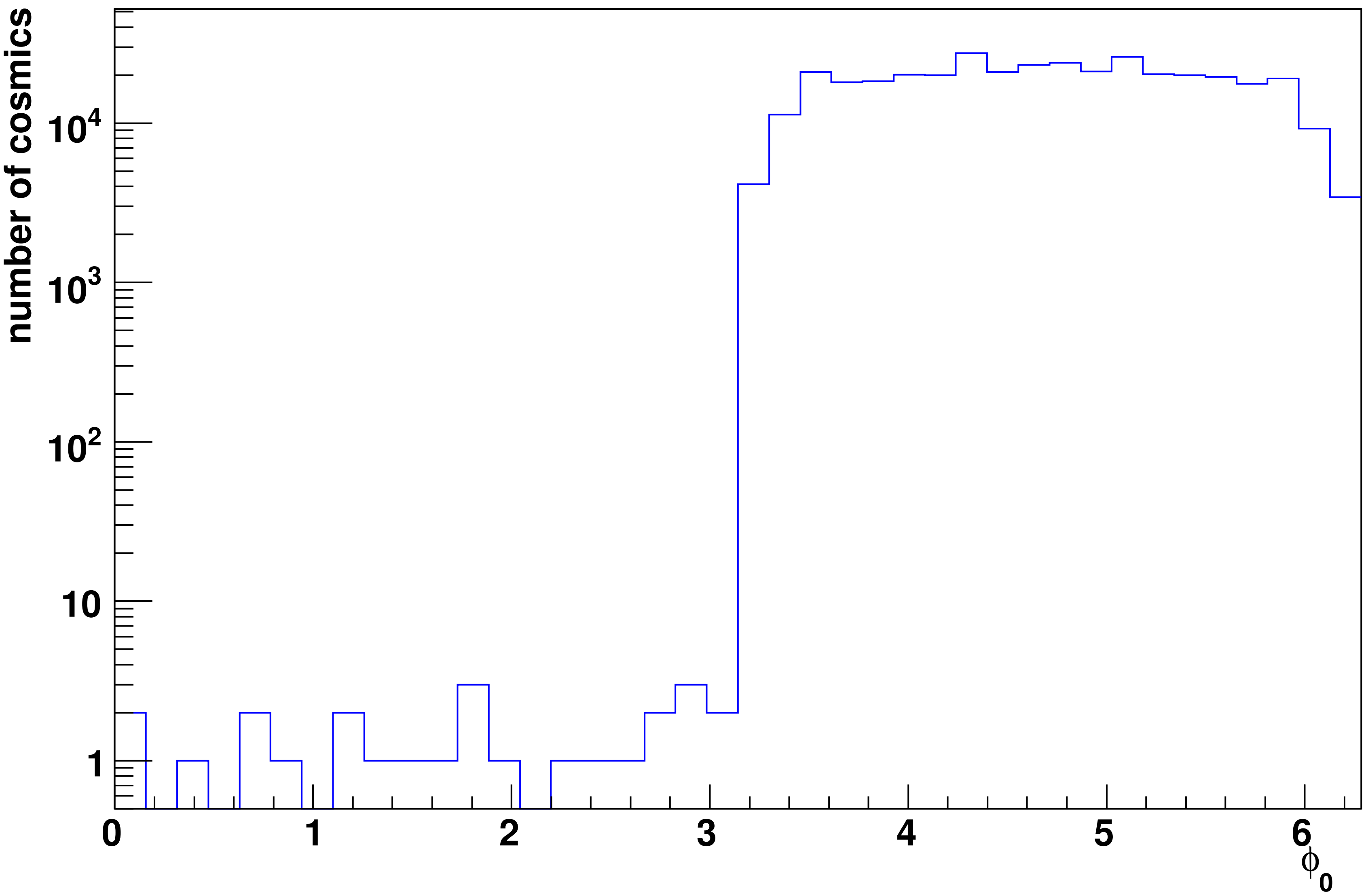


Entries 338368
Mean 186.14
RMS 6.2328
Underflow 6
Overflow 0
Integral 3.3836e+05
number of cosmics
40000
20000
0
120
140
160
180
200
number of COT hits on ditrack

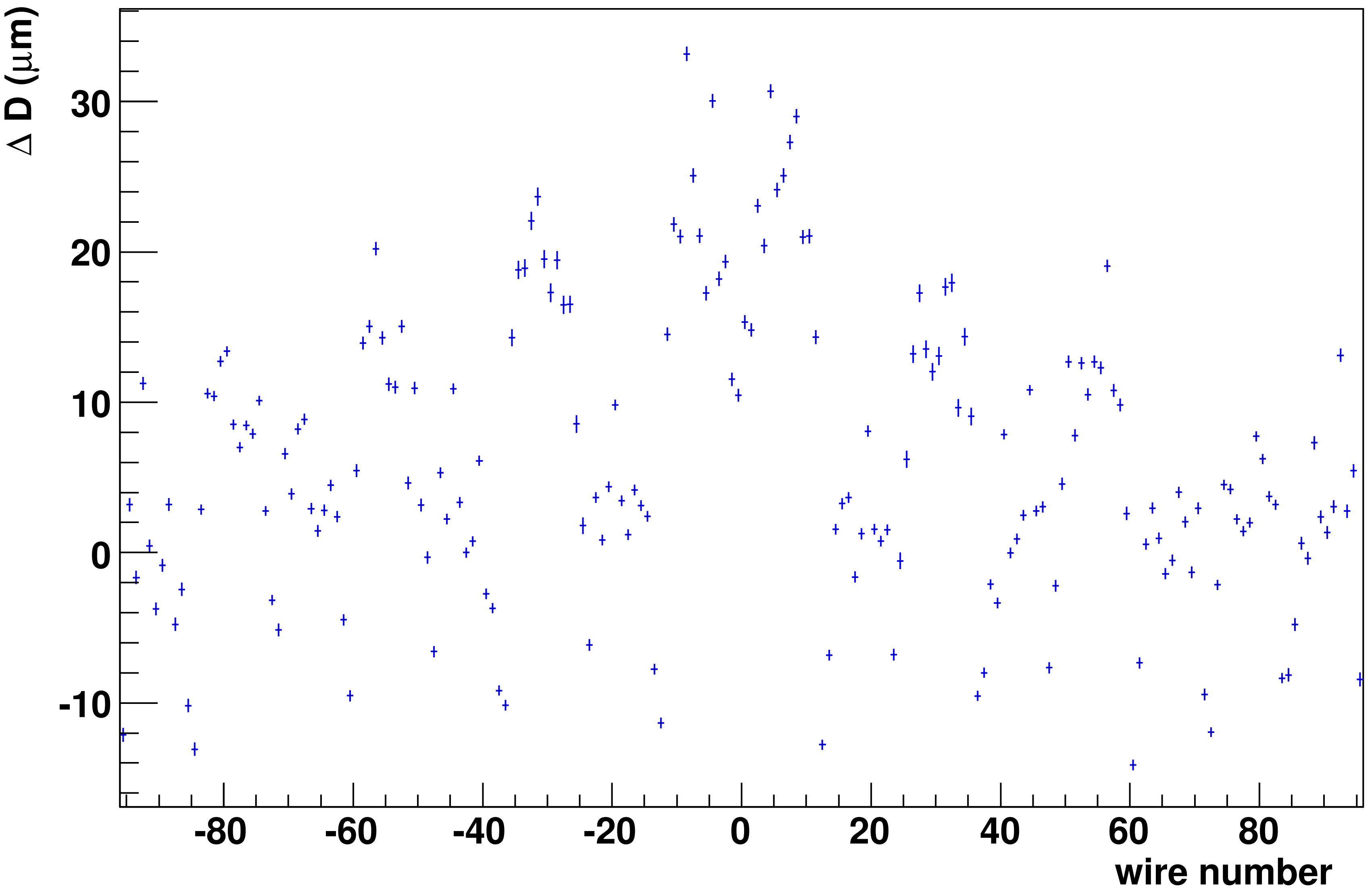


Entries 421665
Mean 272.54
RMS 62.295
Underflow 56824
Overflow 210
Integral 3.6463e+05
number of cosmics
10^5
10^4
10^3
10^2
0
100
200
300
400
500
600
$\Delta\chi^2$

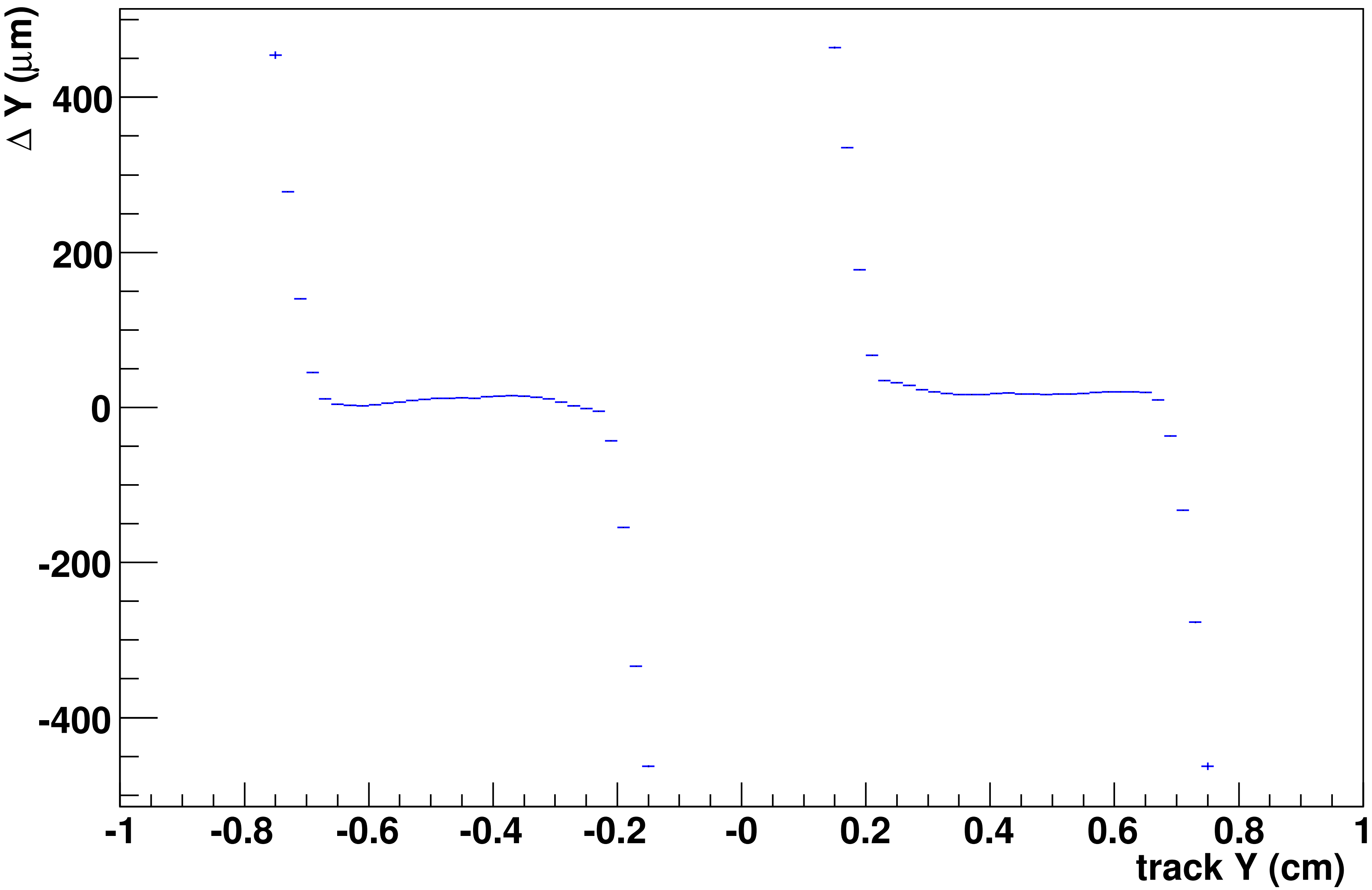

number of cosmics
10000
5000
0
1
2
3
4
5
6
track ϕ_0



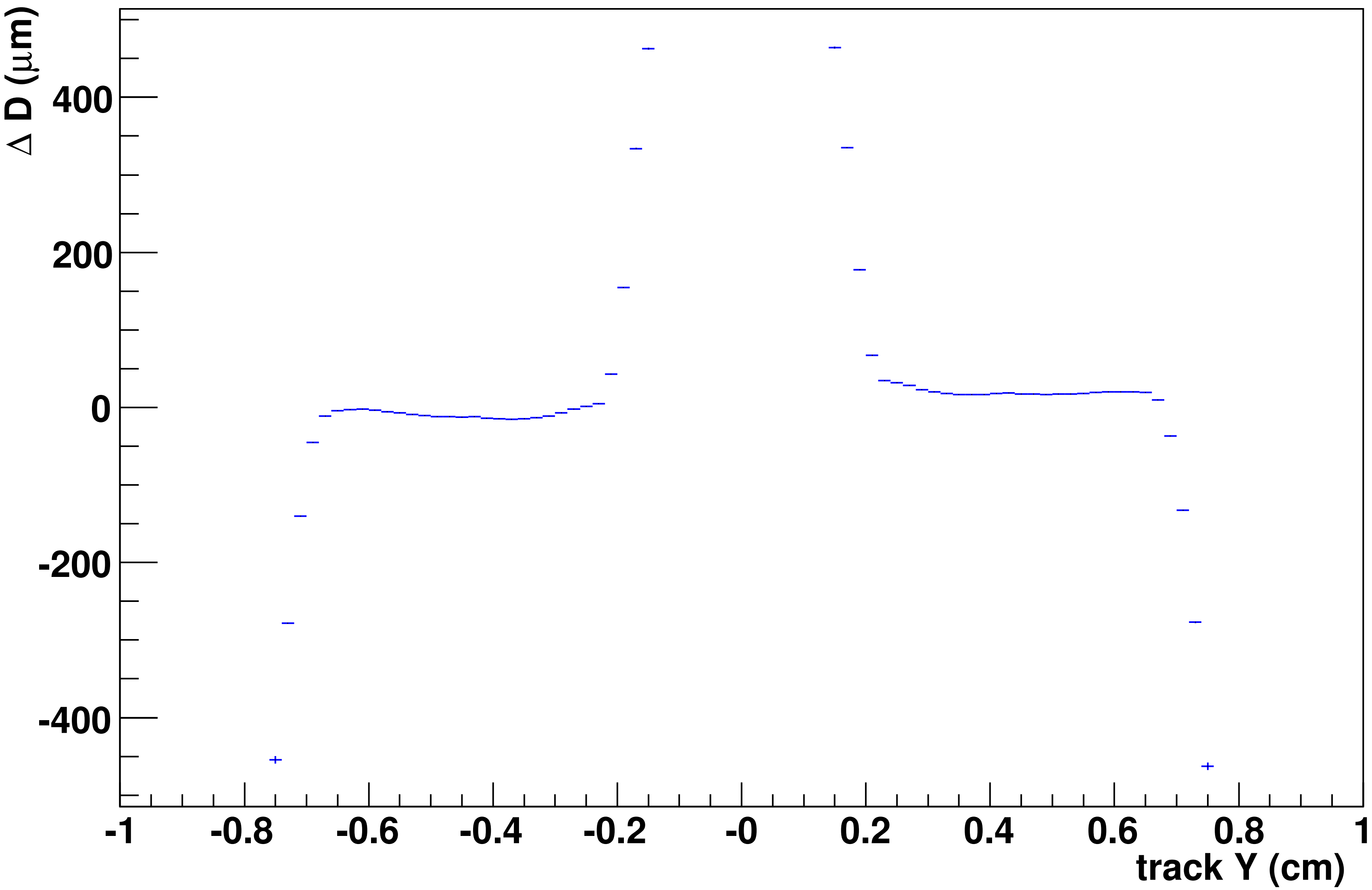
number of cosmics
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
ϕ_0



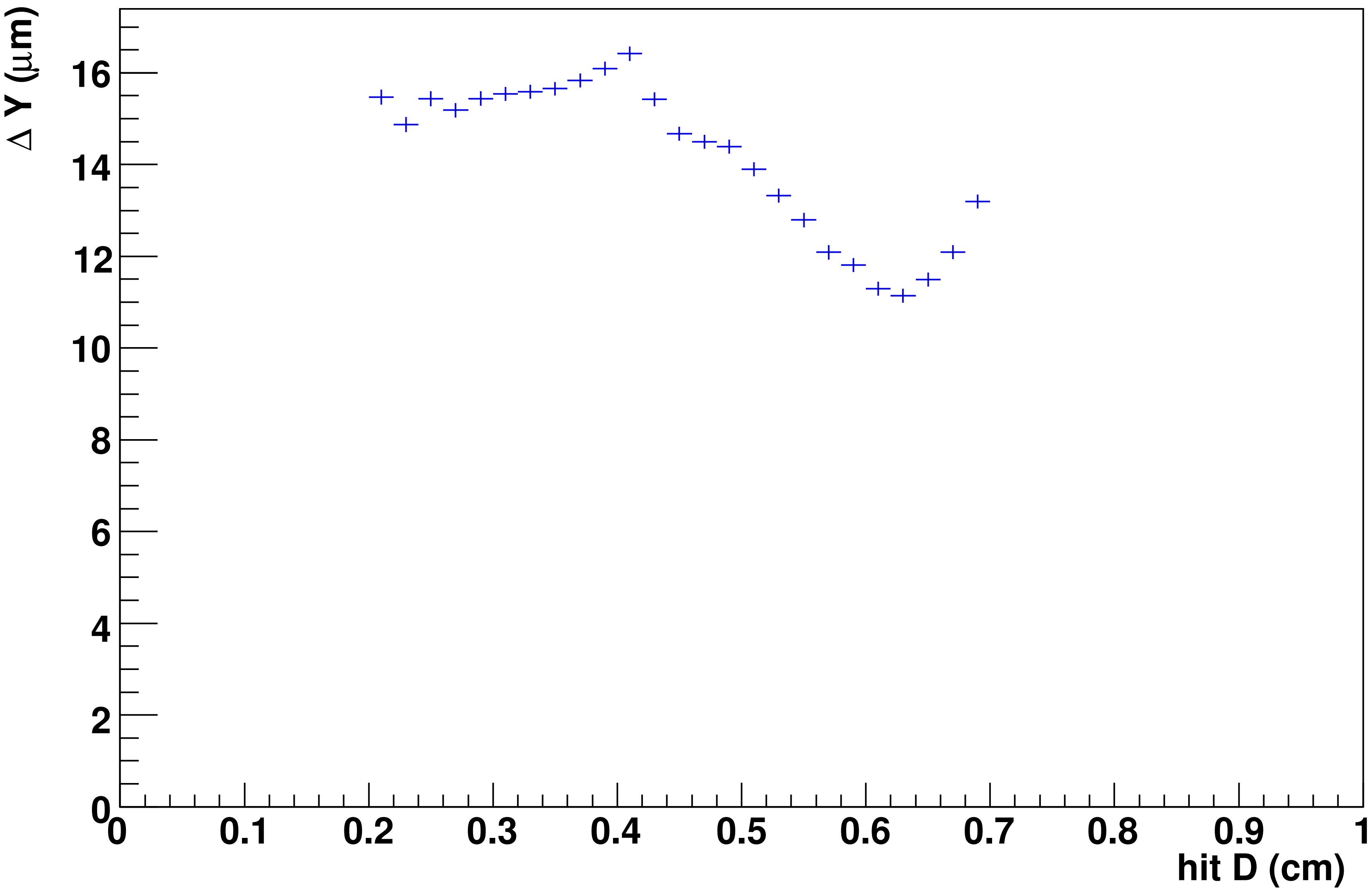
Δ D (μm)
30
20
10
0
-10
-80
-60
-40
-20
0
20
40
60
80
wire number



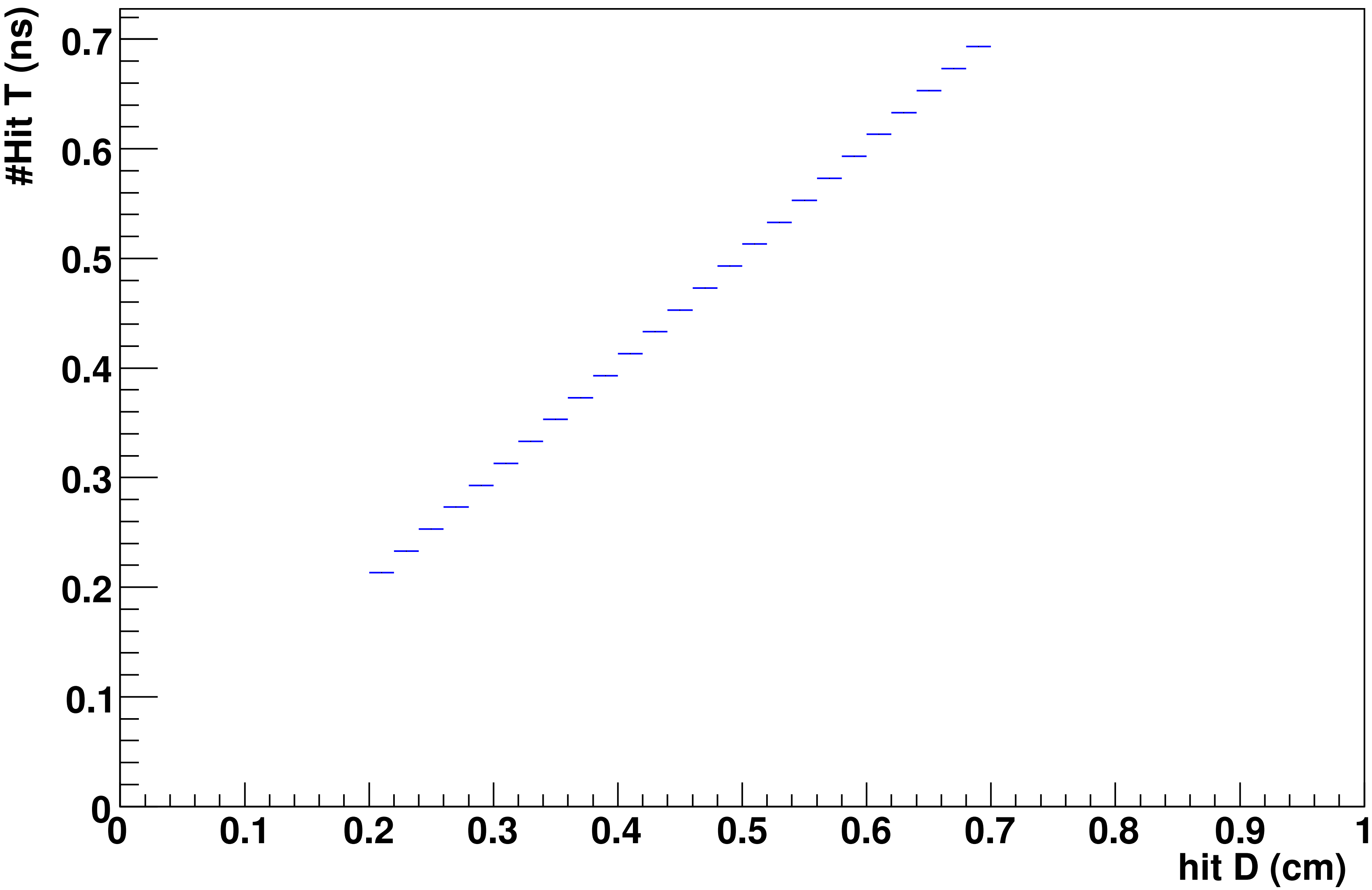
Δ Y (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)

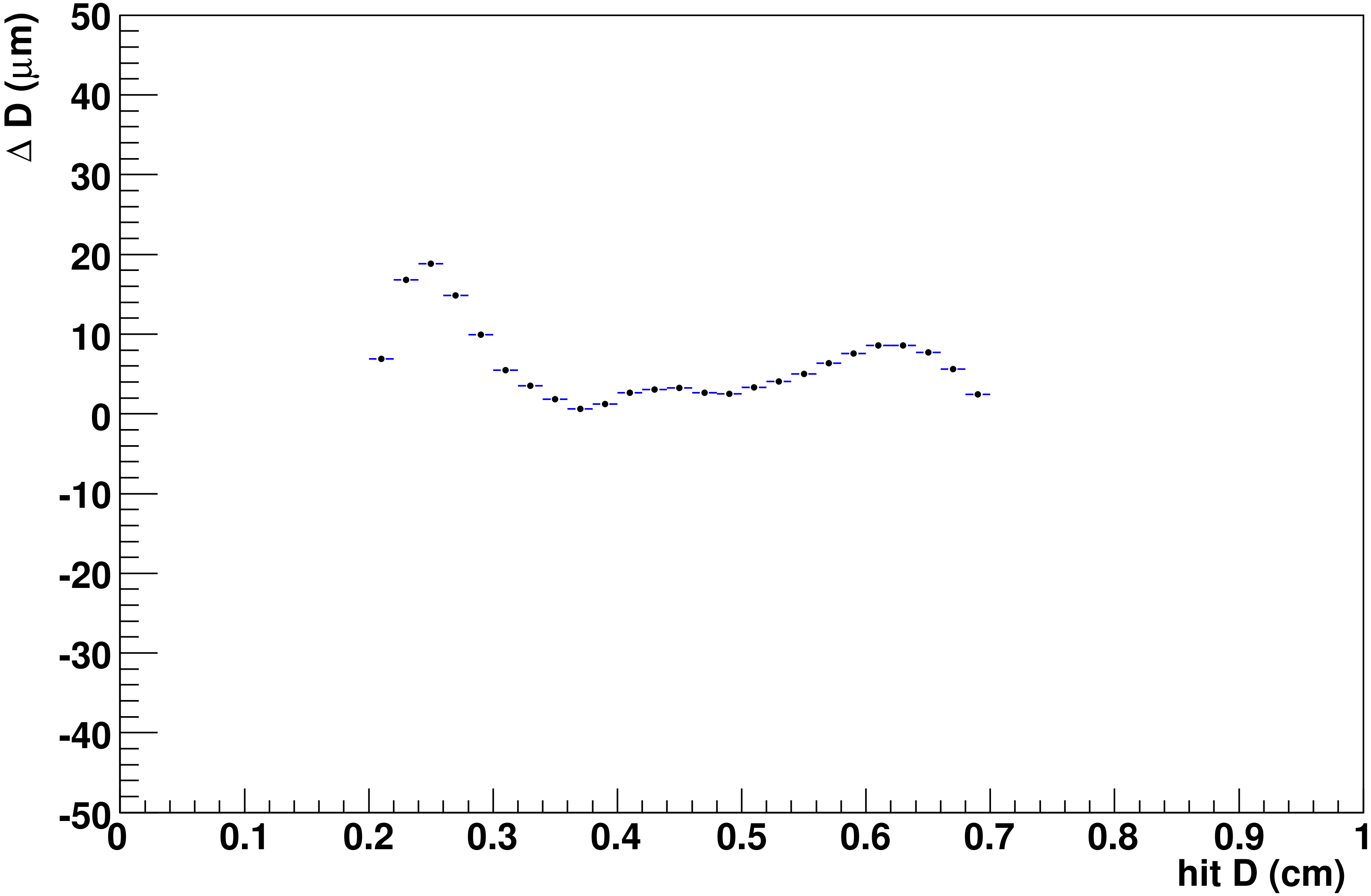


Δ D (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)

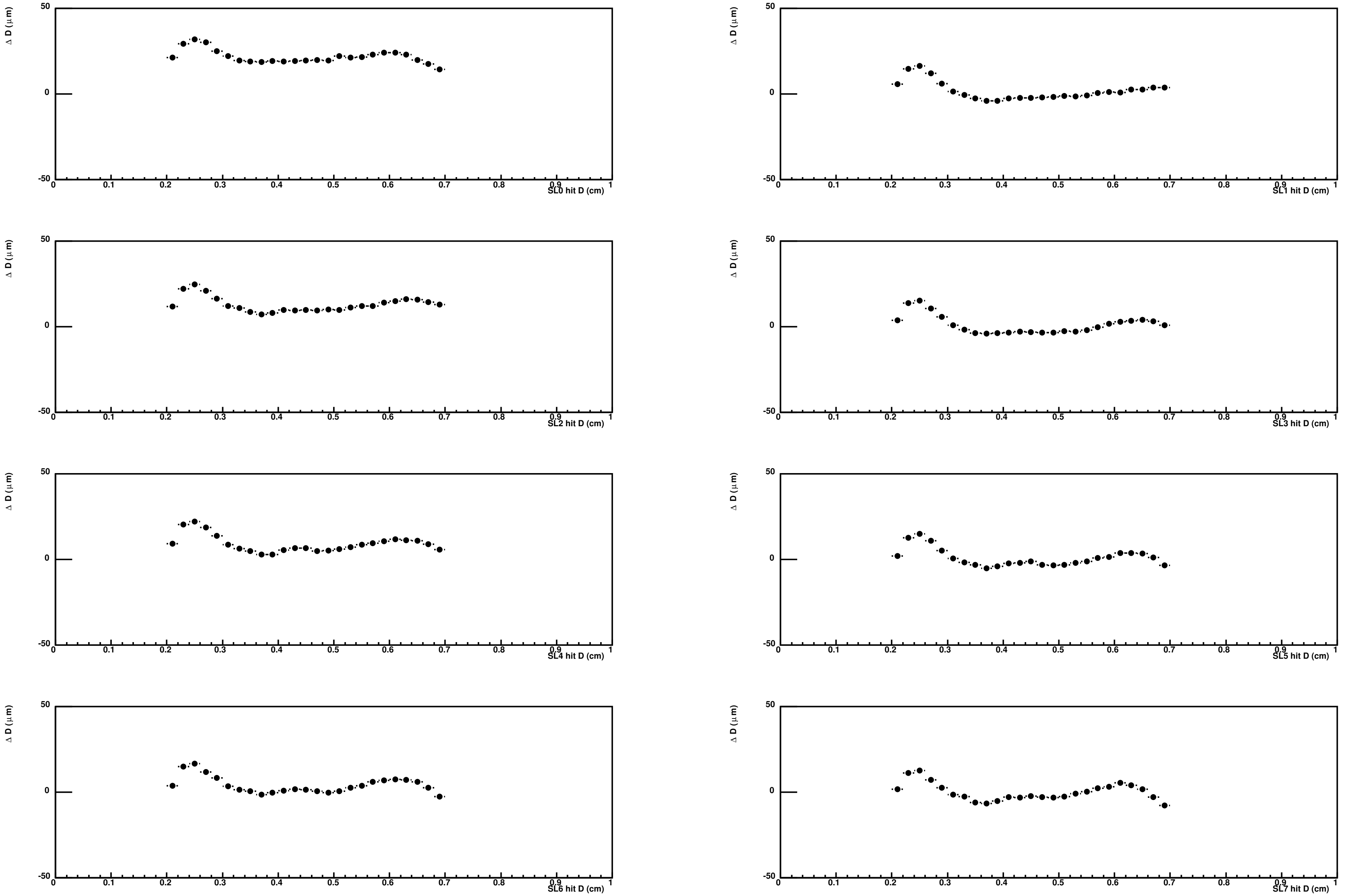


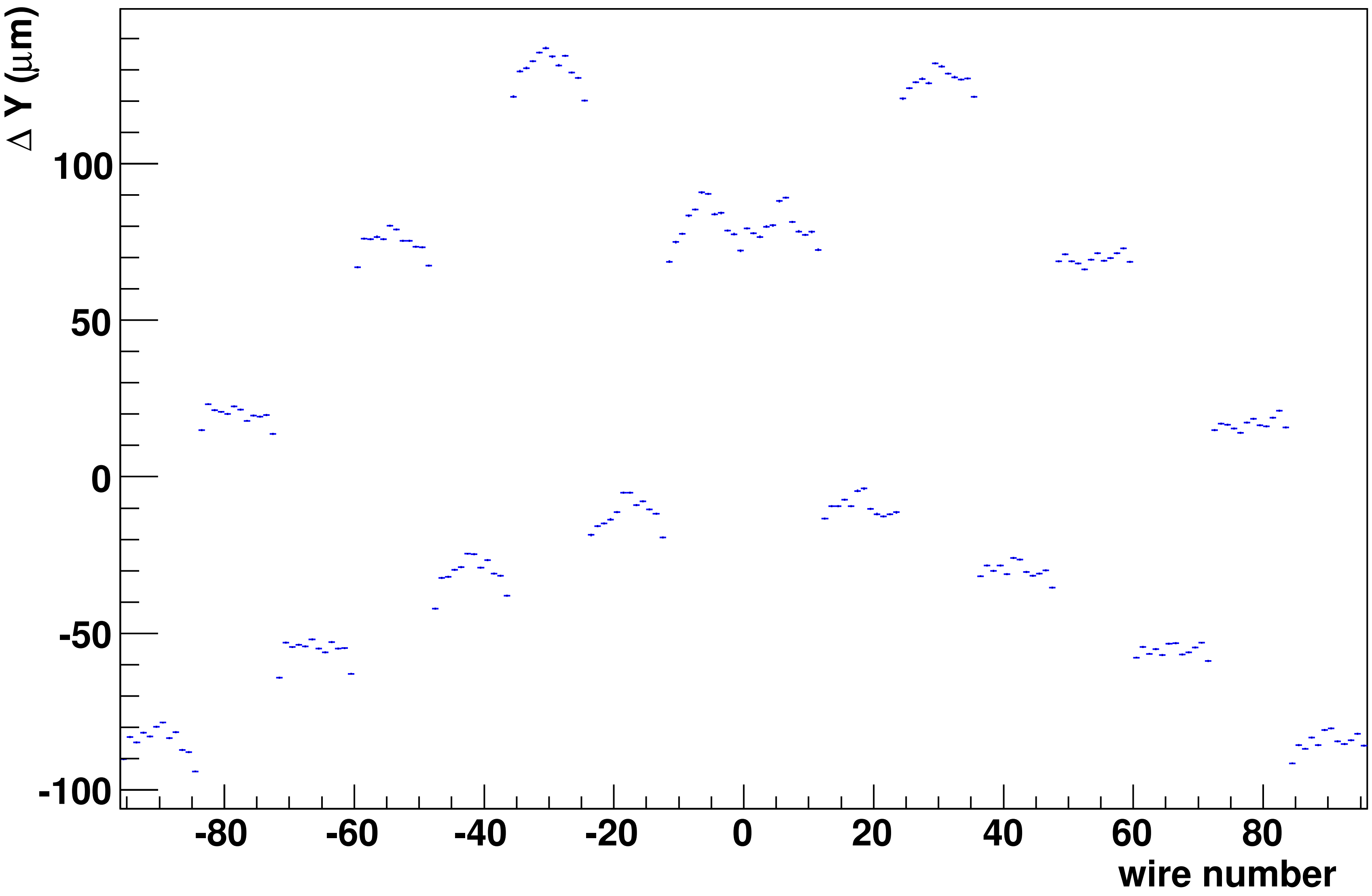
Δ Y (μm)
0
2
4
6
8
10
12
14
16
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)


#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)

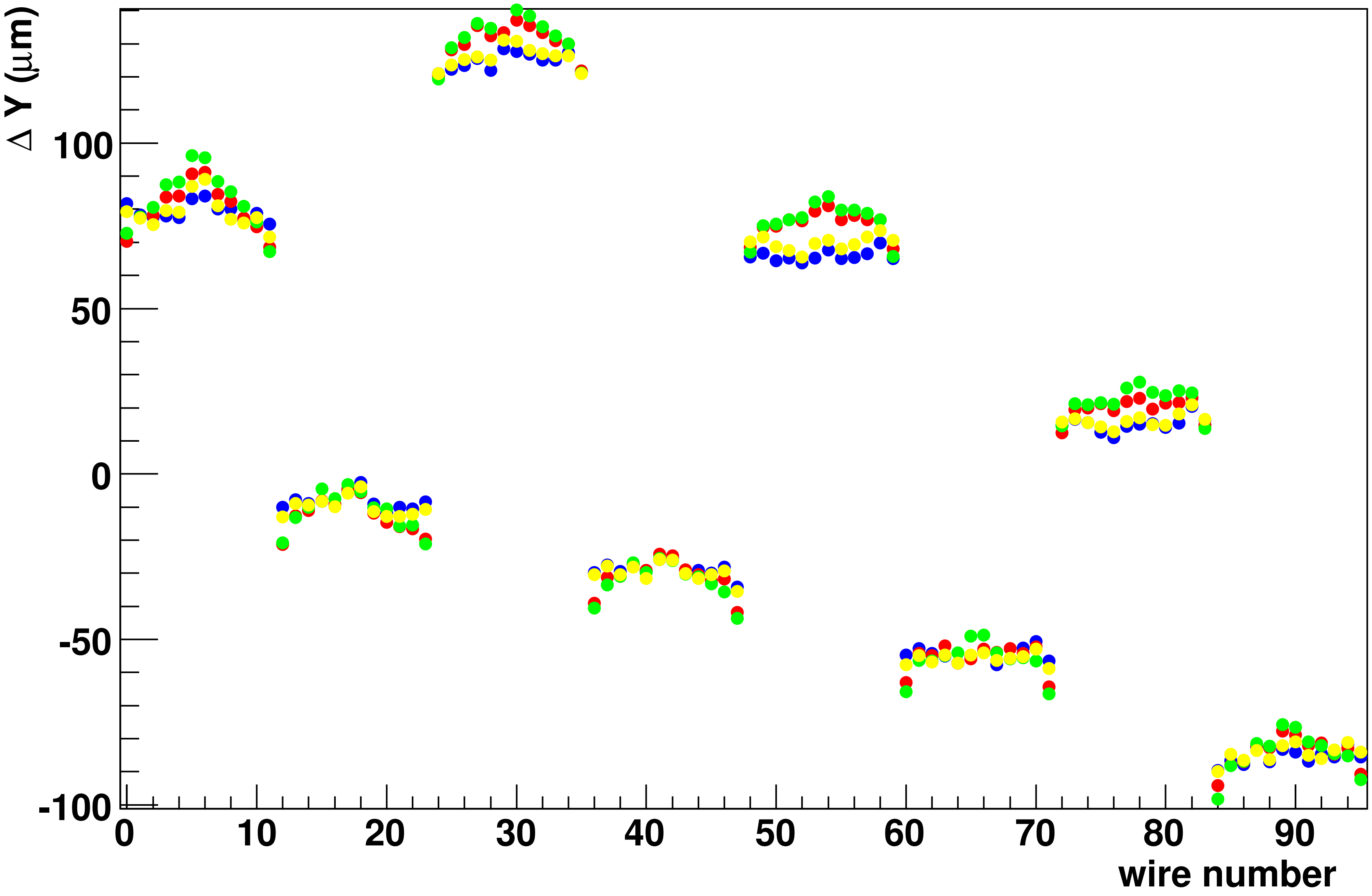


Δ D (μm)
50
40
30
20
10
0
-10
-20
-30
-40
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

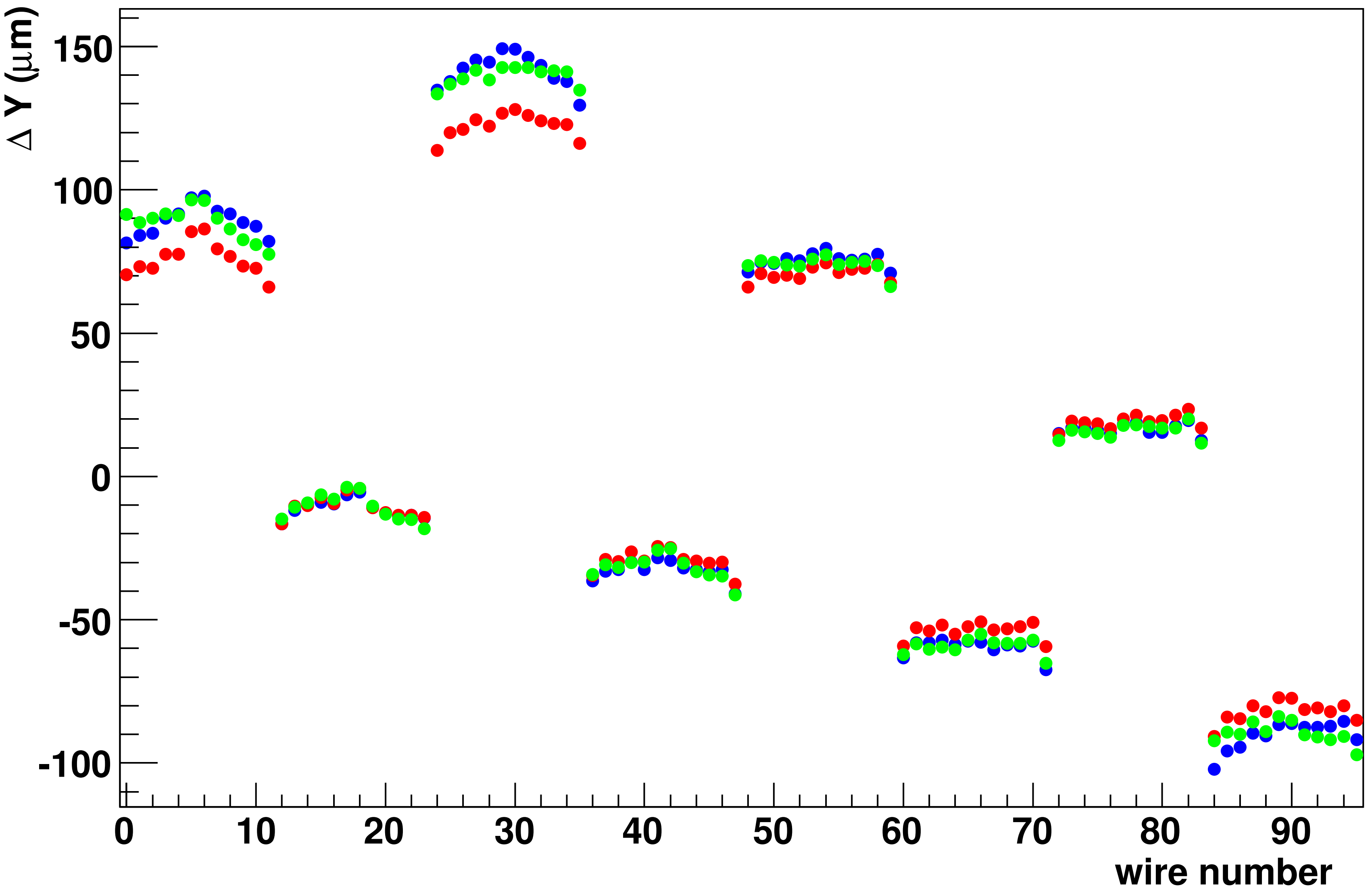

Δ D (μm)
SL0 hit D (cm)
SL1 hit D (cm)
SL2 hit D (cm)
SL3 hit D (cm)
SL4 hit D (cm)
SL5 hit D (cm)
SL6 hit D (cm)
SL7 hit D (cm)



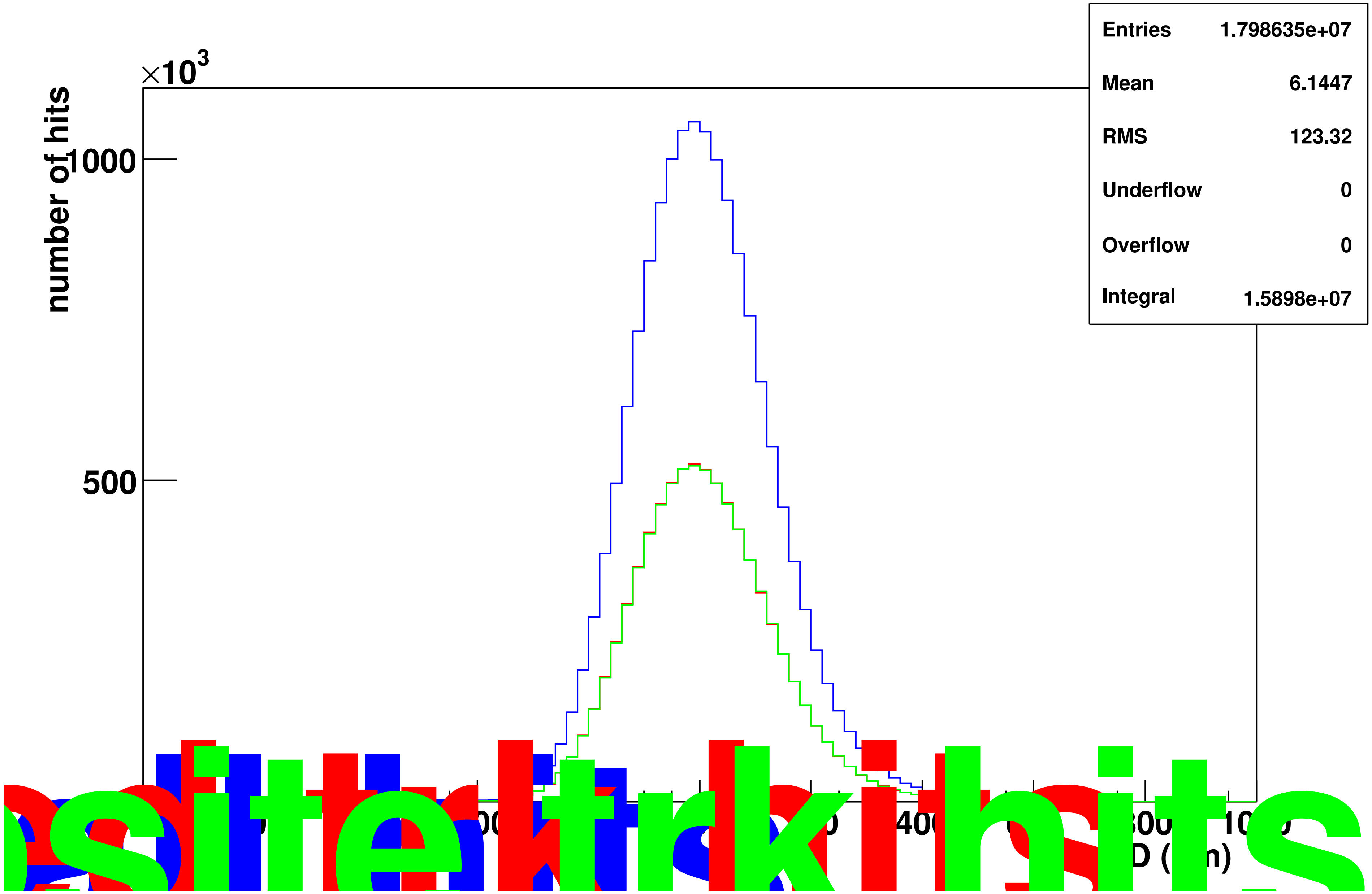
Δ Y (μm)
100
50
0
-50
-100
-80
-60
-40
-20
0
20
40
60
80
wire number



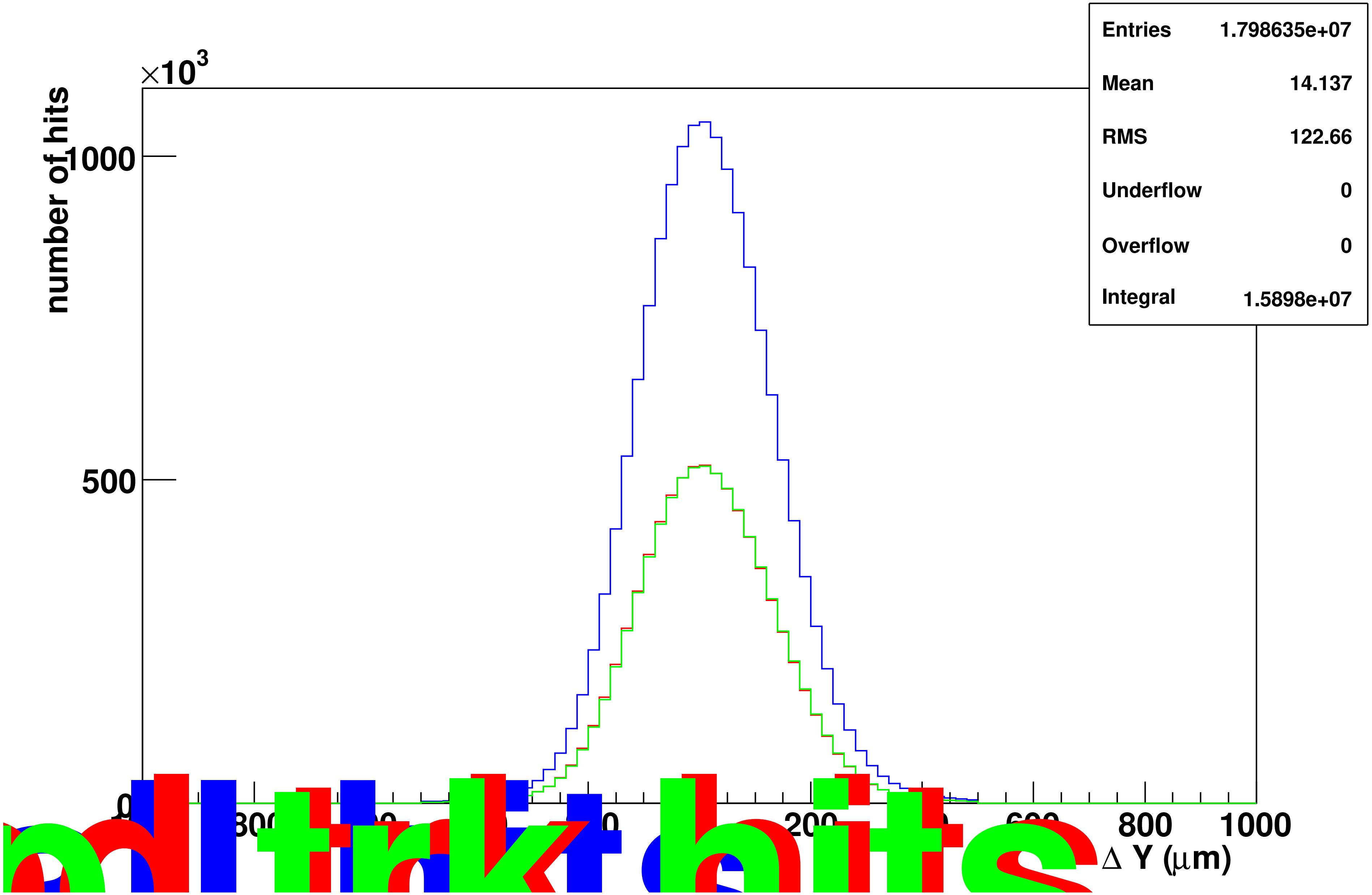
Δ Y (μm)
100
50
0
-50
-100
0
10
20
30
40
50
60
70
80
90
wire number



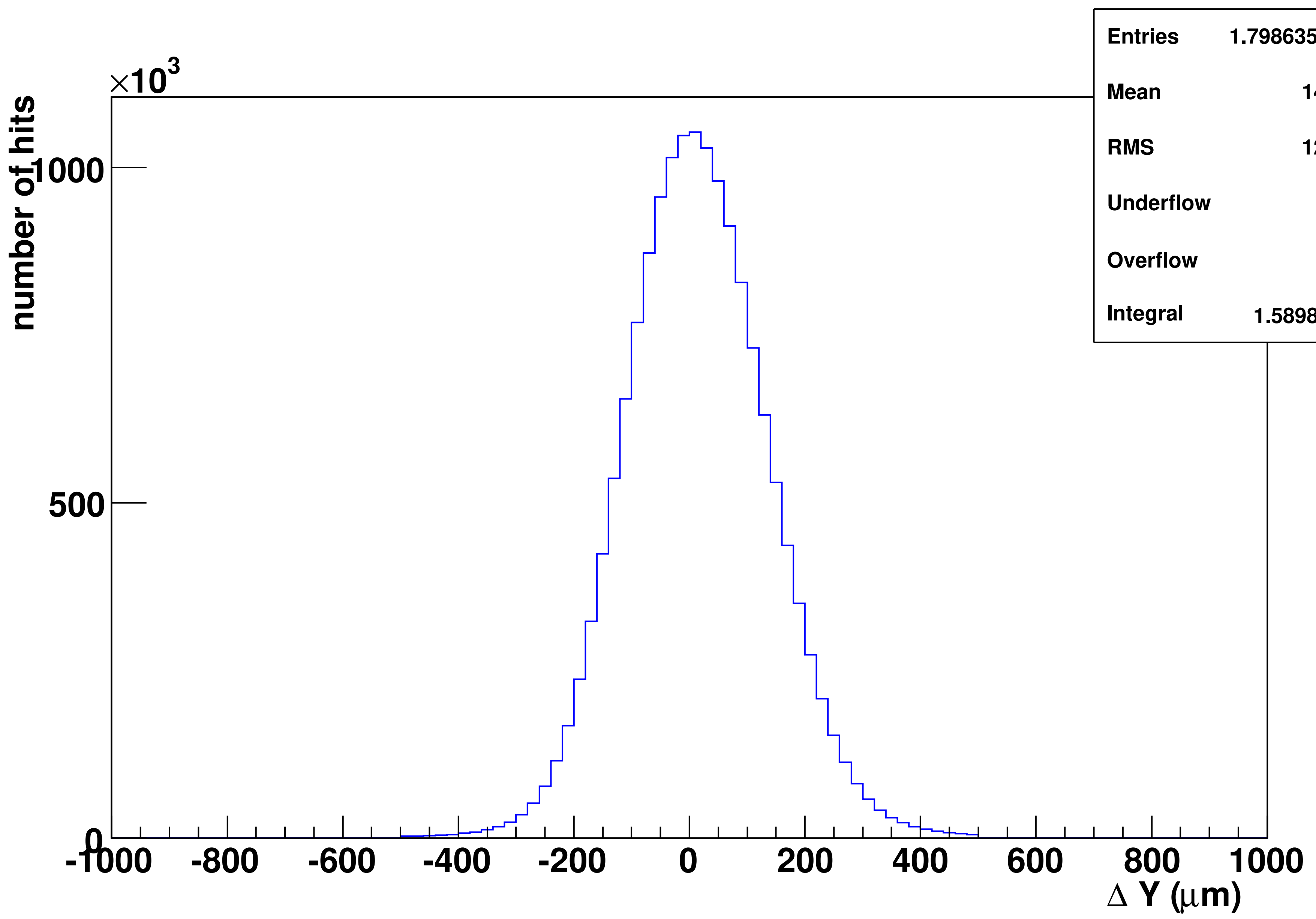
Δ Y (μm)
150
100
50
0
-50
-100
0
10
20
30
40
50
60
70
80
90
wire number



Entries 1.798635e+07
Mean 6.1447
RMS 123.32
Underflow 0
Overflow 0
Integral 1.5898e+07
×10^3
1000
500
number of hits



Entries 1.798635e+07
Mean 14.137
RMS 122.66
Underflow 0
Overflow 0
Integral 1.5898e+07
$\times10^3$
number of hits
1000
500
0
800
1000
Δ Y (μm)


Entries 1.798635e+07
Mean 14.137
RMS 122.66
Underflow 0
Overflow 0
Integral 1.5898e+07
×10^3
number of hits
1000
500
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000
Δ Y (μm)