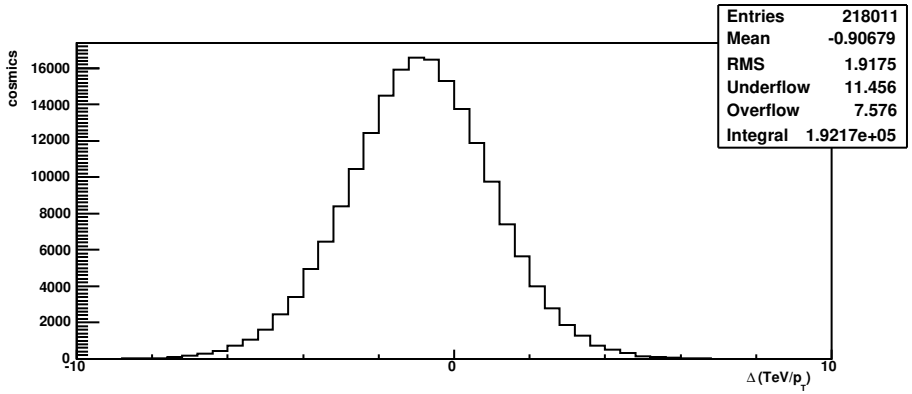
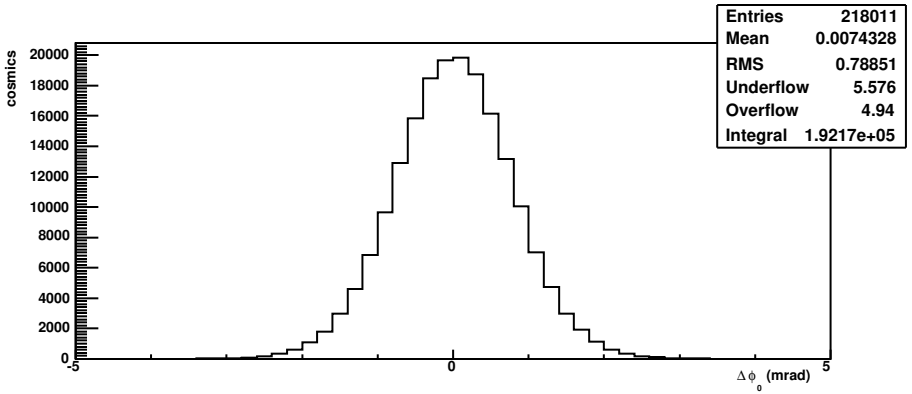
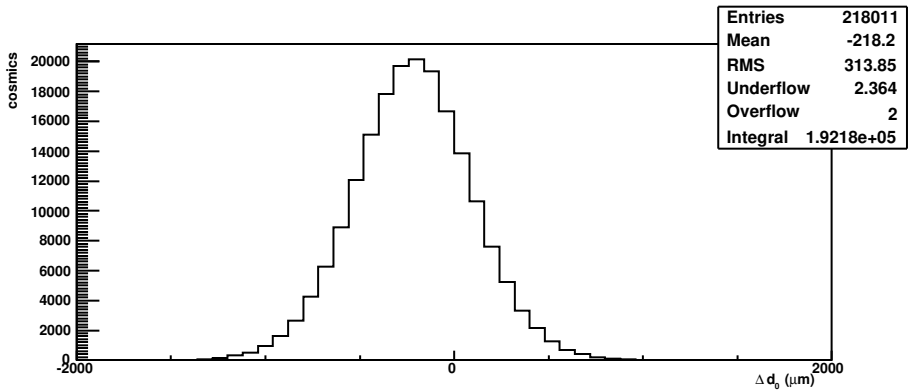
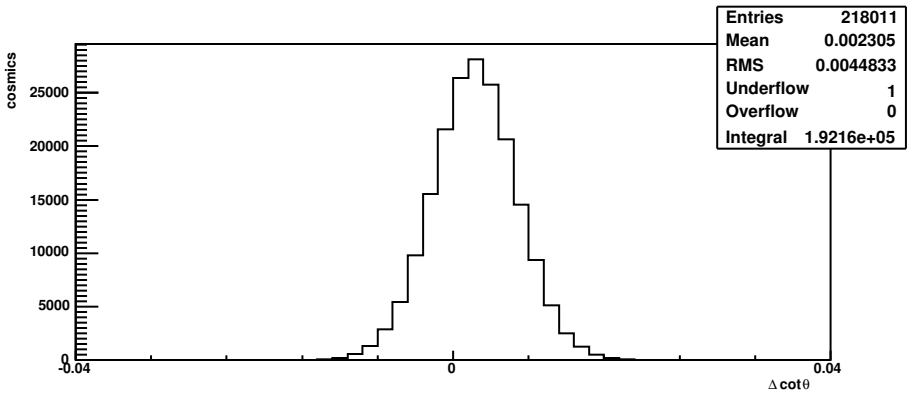
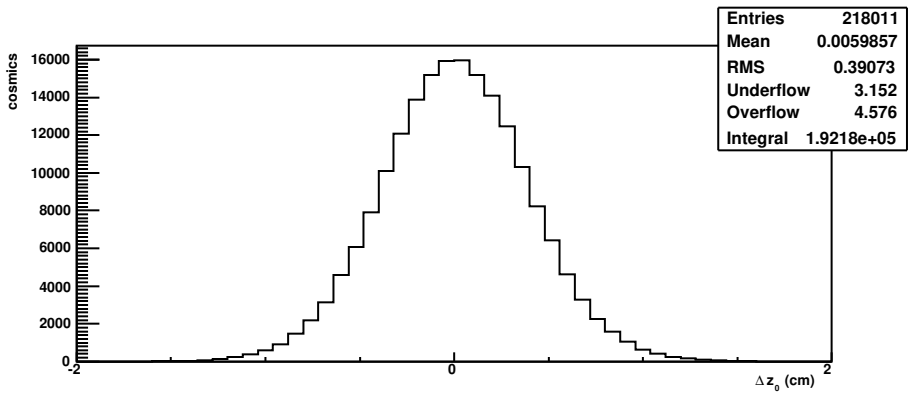
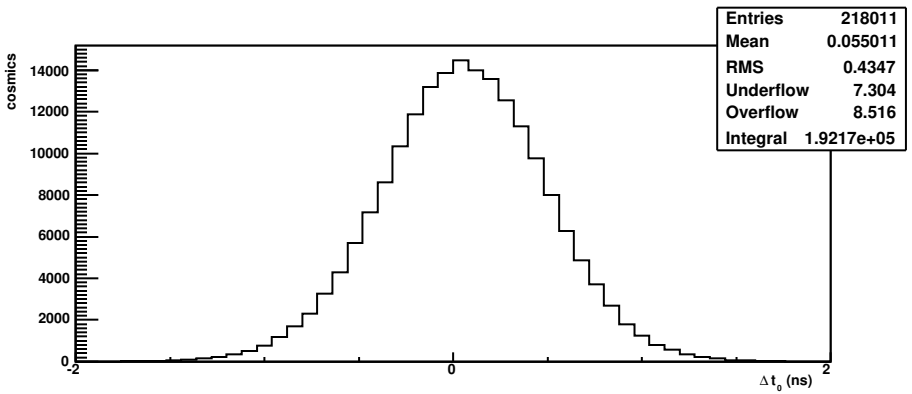

Entries 218011
Mean -0.90679
RMS 1.9175
Underflow 11.456
Overflow 7.576
Integral 1.9217e+05
cosmics
Δ(TeV/p_T)

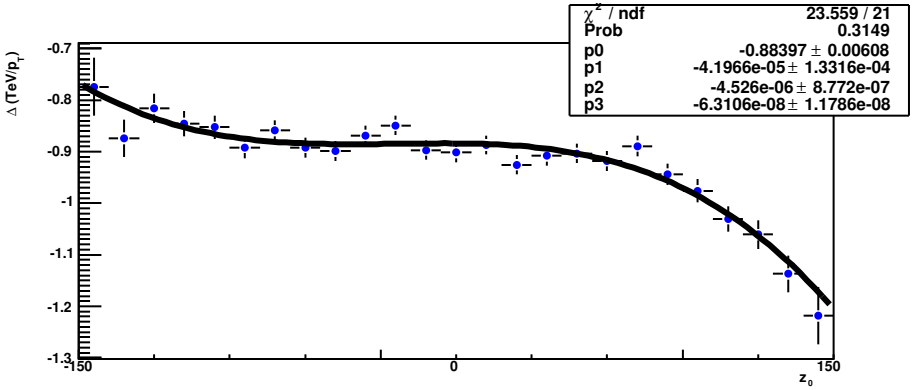

Entries 218011
Mean 0.0074328
RMS 0.78851
Underflow 5.576
Overflow 4.94
Integral 1.9217e+05
cosmics
Δφ_0 (mrad)

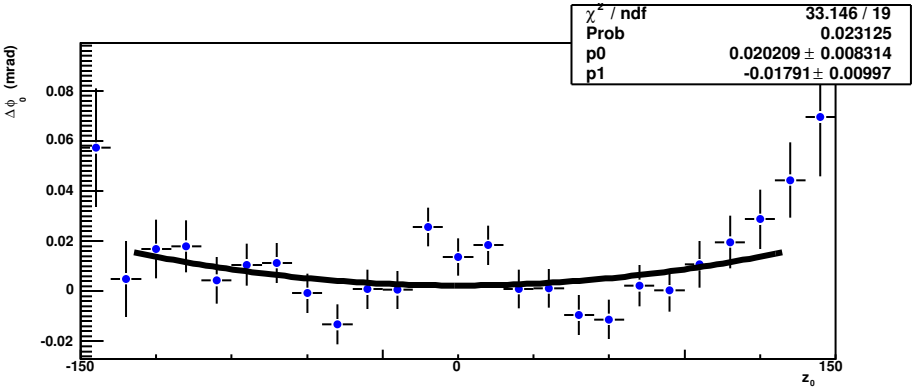

Entries 218011
Mean -218.2
RMS 313.85
Underflow 2.364
Overflow 2
Integral 1.9218e+05
cosmics
Δd_0 (μm)

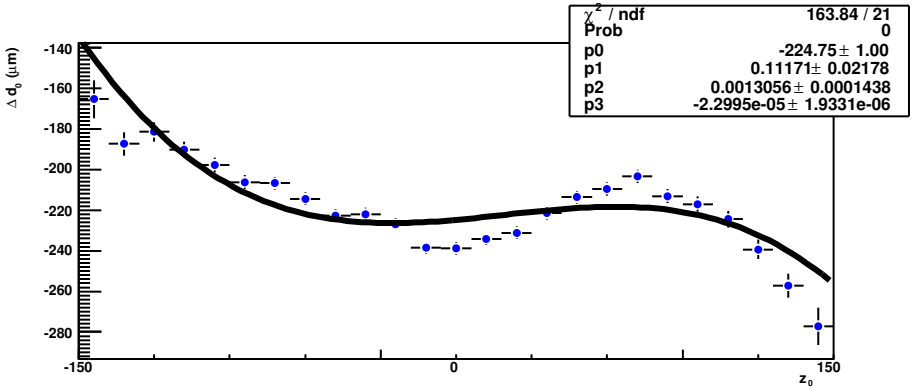

Entries 218011
Mean 0.002305
RMS 0.0044833
Underflow 1
Overflow 0
Integral 1.9216e+05
cosmics
Δcotθ

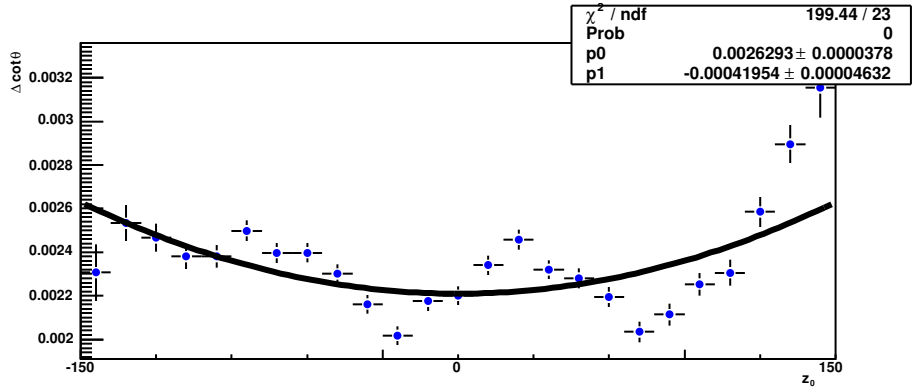

Entries 218011
Mean 0.0059857
RMS 0.39073
Underflow 3.152
Overflow 4.576
Integral 1.9218e+05
cosmics
Δz_0 (cm)

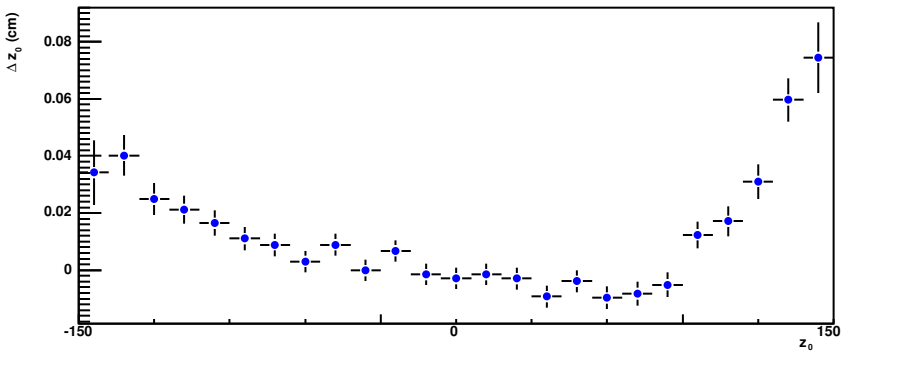

Entries 218011
Mean 0.055011
RMS 0.4347
Underflow 7.304
Overflow 8.516
Integral 1.9217e+05
cosmics
Δt_0 (ns)

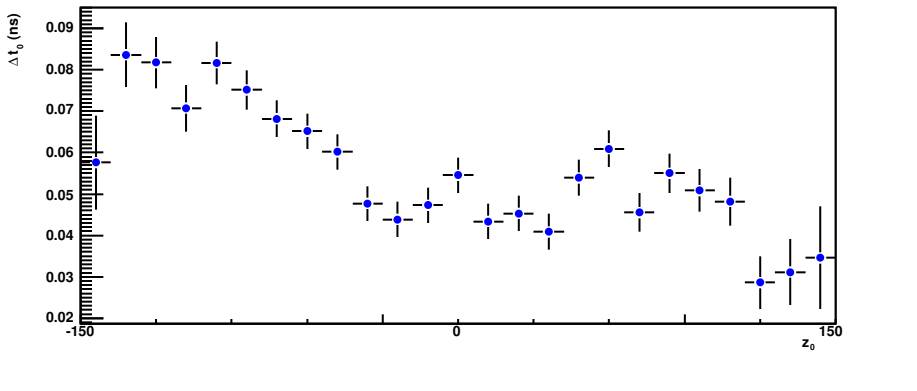

χ^2 / ndf 23.559 / 21
Prob 0.3149
p0 -0.88397 ± 0.00608
p1 -4.1966e-05 ± 1.3316e-04
p2 -4.526e-06 ± 8.772e-07
p3 -6.3106e-08 ± 1.1786e-08
$\Delta(\mathrm{TeV}/p_T)$
z_0

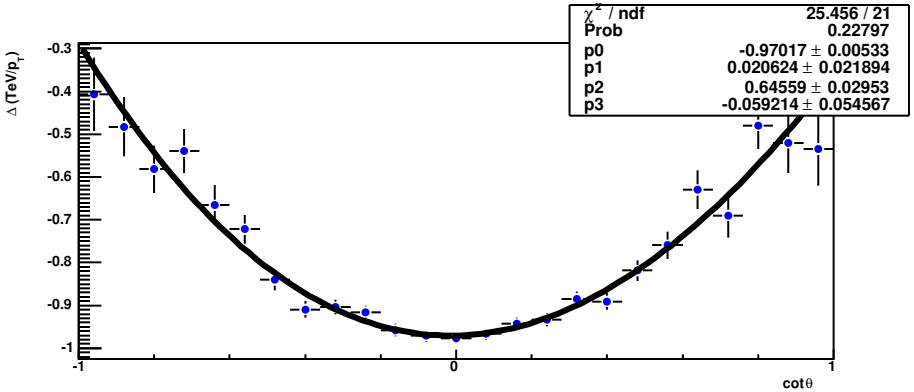

χ^2 / ndf 33.146 / 19
Prob 0.023125
p0 0.020209 ± 0.008314
p1 -0.01791 ± 0.00997
$\Delta\phi_0$ (mrad)
z_0

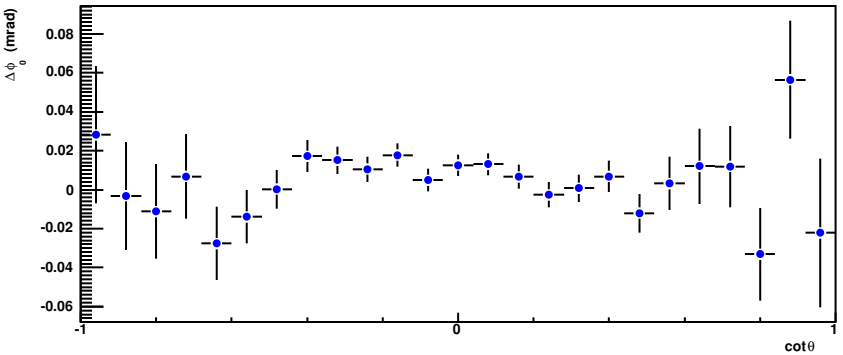

χ^2 / ndf 163.84 / 21
Prob 0
p0 -224.75 ± 1.00
p1 0.11171 ± 0.02178
p2 0.0013056 ± 0.0001438
p3 -2.2995e-05 ± 1.9331e-06
Δd_0 (μm)
z_0

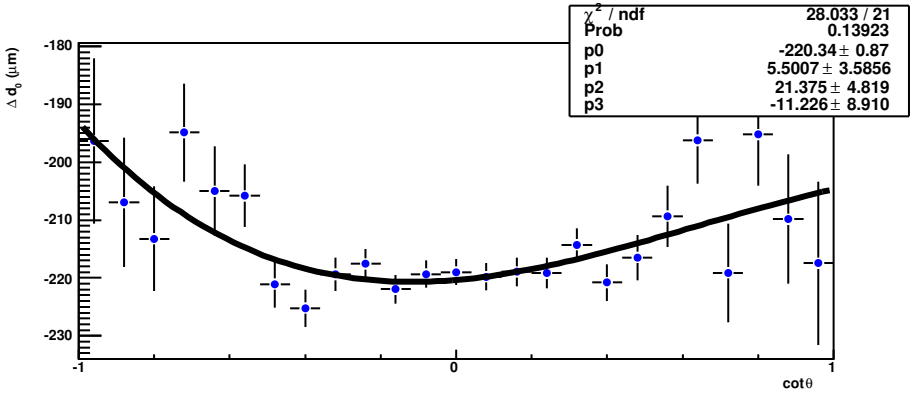

χ^2 / ndf 199.44 / 23
Prob 0
p0 0.0026293 ± 0.0000378
p1 -0.00041954 ± 0.00004632
$\Delta\cot\theta$
z_0

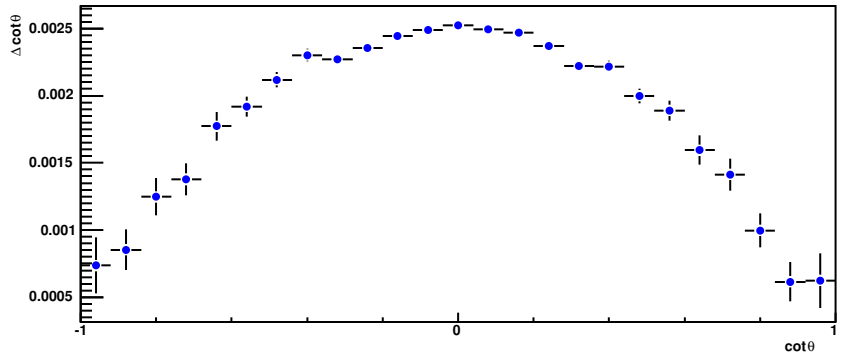

Δz_0 (cm)
z_0

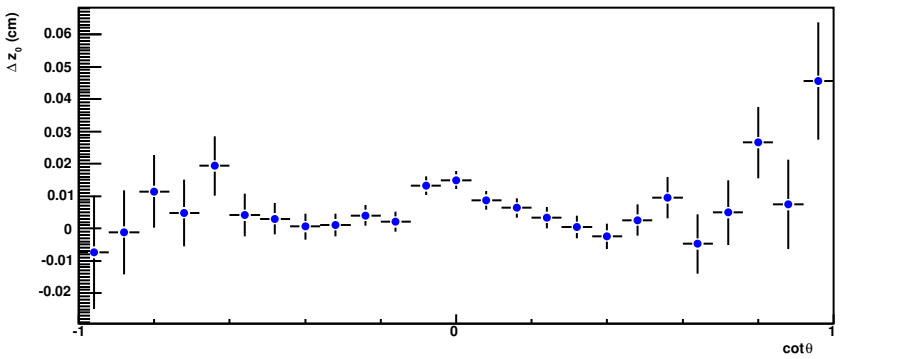

Δt_0 (ns)
z_0

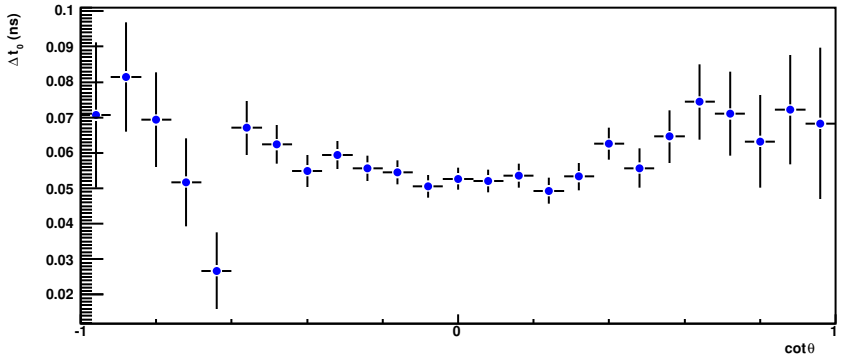

χ^2 / ndf 25.456 / 21
Prob 0.22797
p0 -0.97017 ± 0.00533
p1 0.020624 ± 0.021894
p2 0.64559 ± 0.02953
p3 -0.059214 ± 0.054567
Δ (TeV/p_T)
cotθ

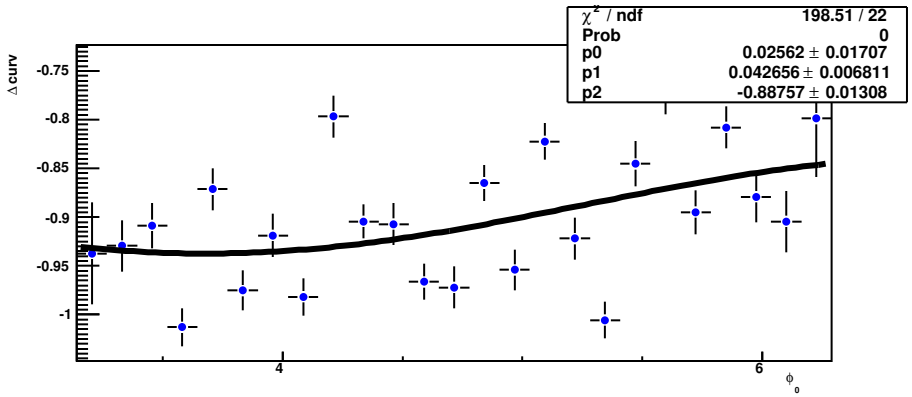

$\Delta\phi_0$ (mrad)
cotθ

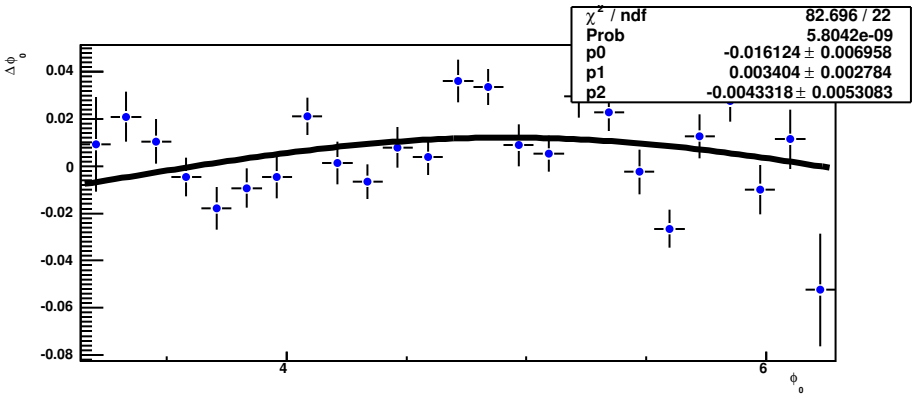

χ^2 / ndf 28.033 / 21
Prob 0.13923
p0 -220.34 ± 0.87
p1 5.5007 ± 3.5856
p2 21.375 ± 4.819
p3 -11.226 ± 8.910
Δd_0 (μm)
cotθ

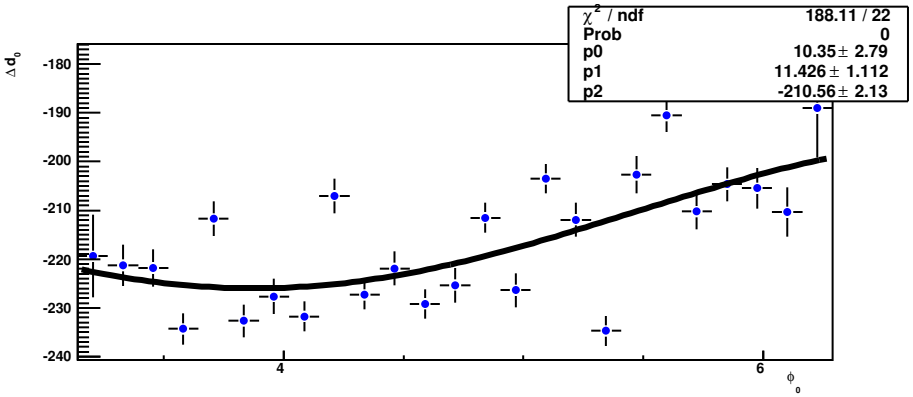

Δ cotθ
cotθ

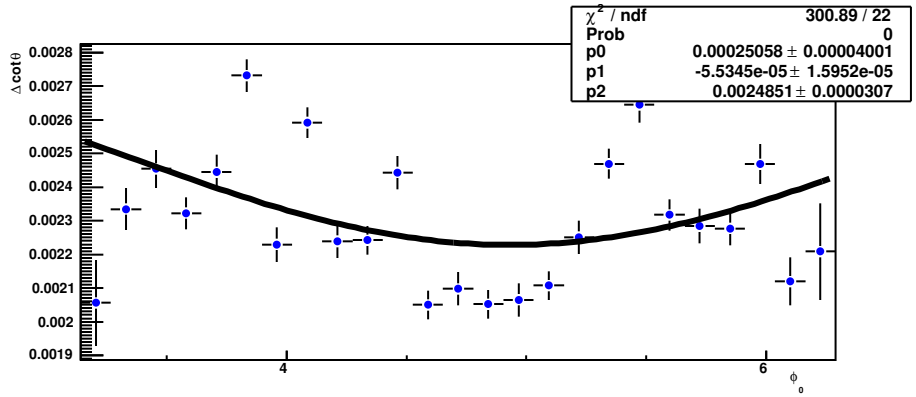

Δz_0 (cm)
cotθ

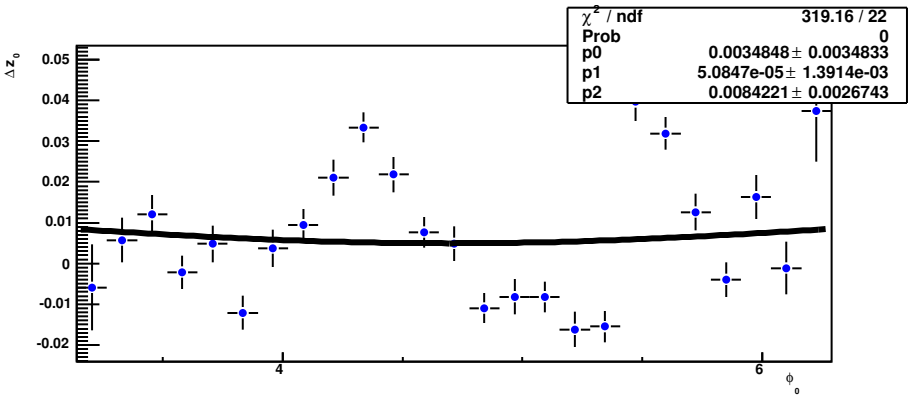

Δt_0 (ns)
cotθ

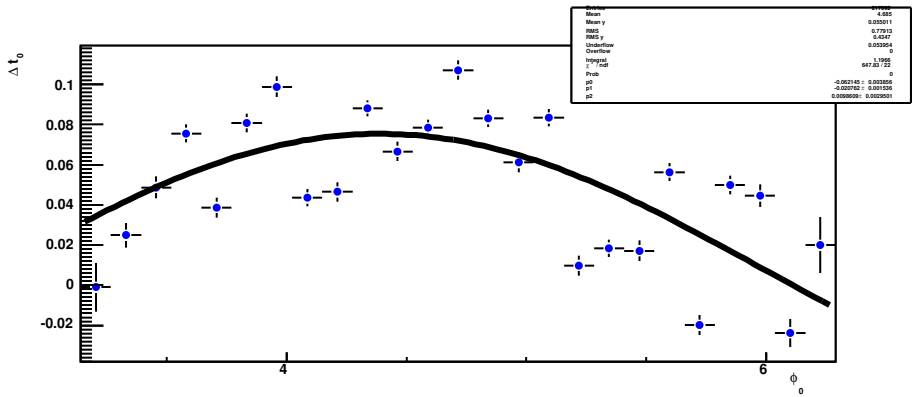

χ^2 / ndf 198.51 / 22
Prob 0
p0 0.02562 ± 0.01707
p1 0.042656 ± 0.006811
p2 -0.88757 ± 0.01308
Δ curv
ϕ_0

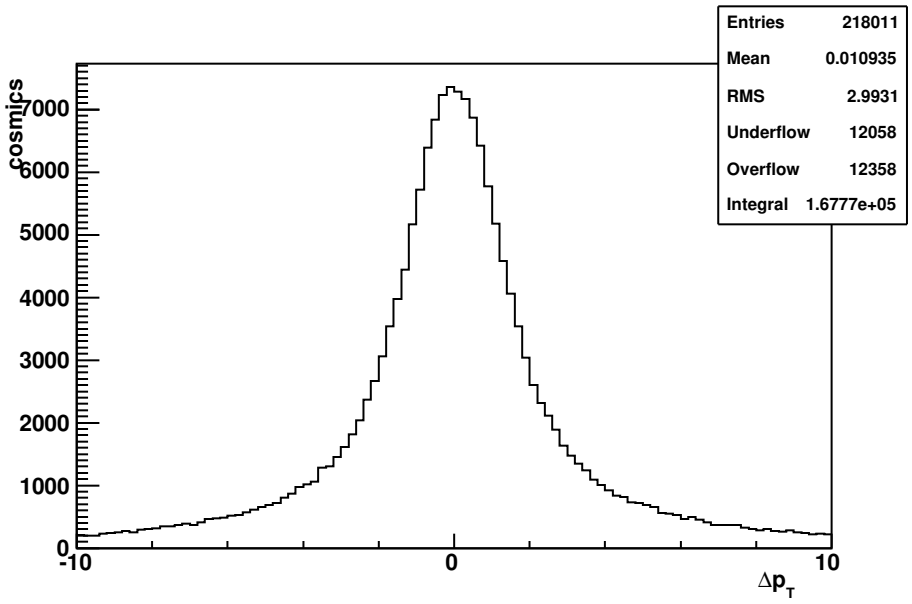

χ^2 / ndf 82.696 / 22
Prob 5.8042e-09
p0 -0.016124 ± 0.006958
p1 0.003404 ± 0.002784
p2 -0.0043318 ± 0.0053083
Δ ϕ_0
ϕ_0

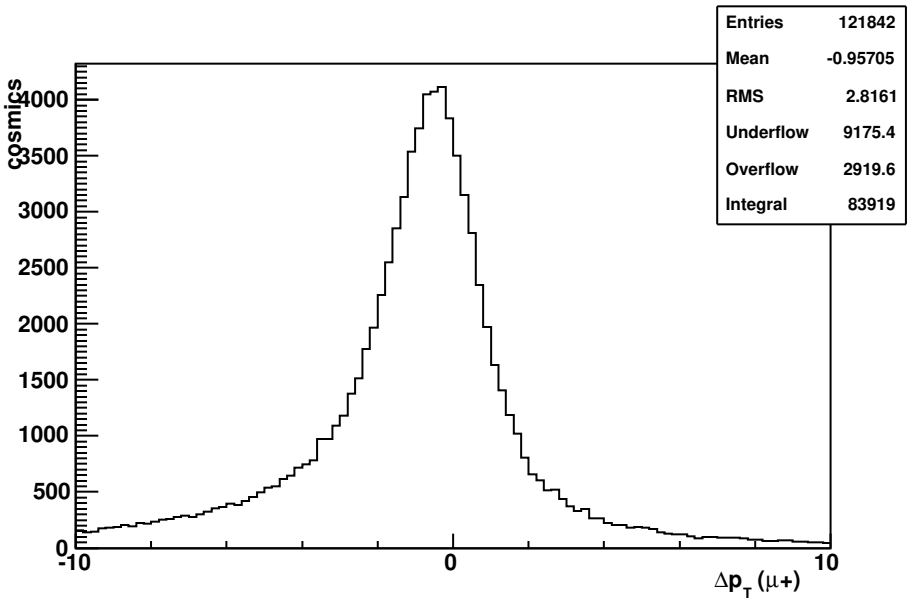

χ^2 / ndf 188.11 / 22
Prob 0
p0 10.35 ± 2.79
p1 11.426 ± 1.112
p2 -210.56 ± 2.13
Δ d_0
ϕ_0

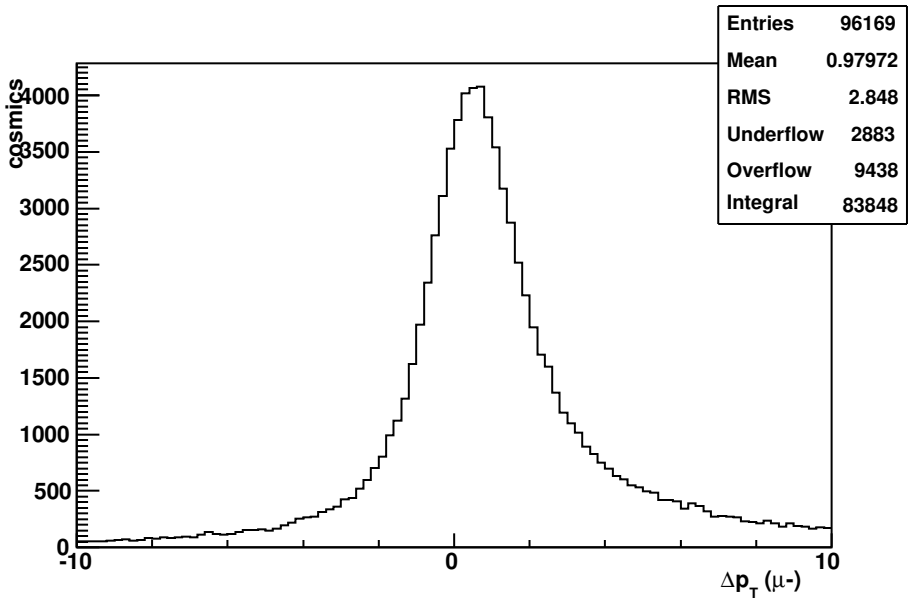

χ^2 / ndf 300.89 / 22
Prob 0
p0 0.00025058 ± 0.00004001
p1 -5.5345e-05 ± 1.5952e-05
p2 0.0024851 ± 0.0000307
Δ cotθ
ϕ_0

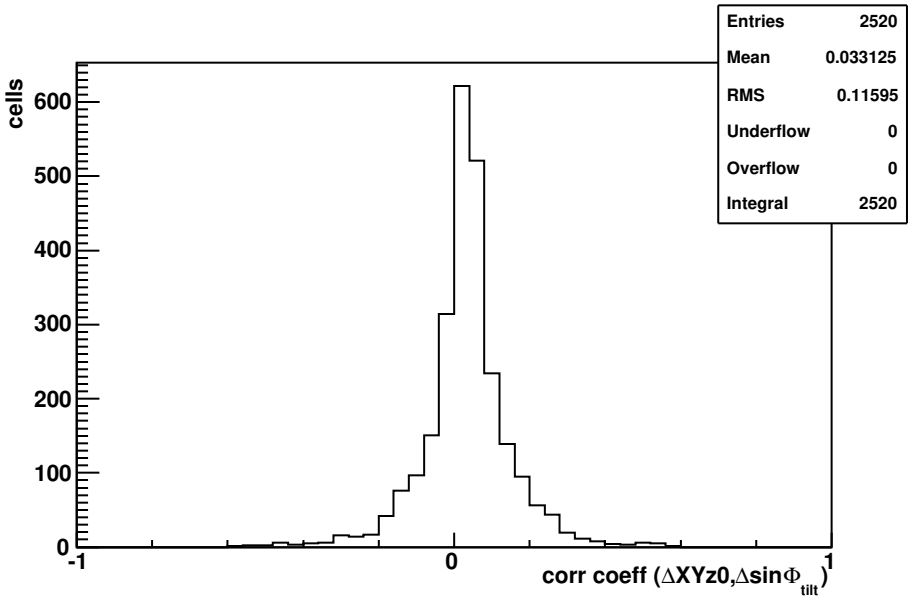

χ^2 / ndf 319.16 / 22
Prob 0
p0 0.0034848 ± 0.0034833
p1 5.0847e-05 ± 1.3914e-03
p2 0.0084221 ± 0.0026743
Δ z_0
ϕ_0

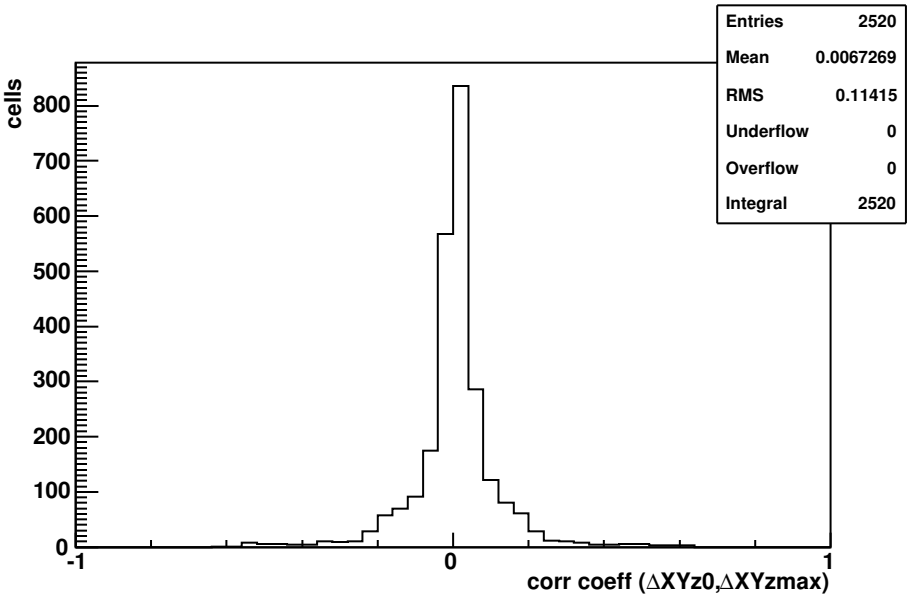

Δ t_0
ϕ_0

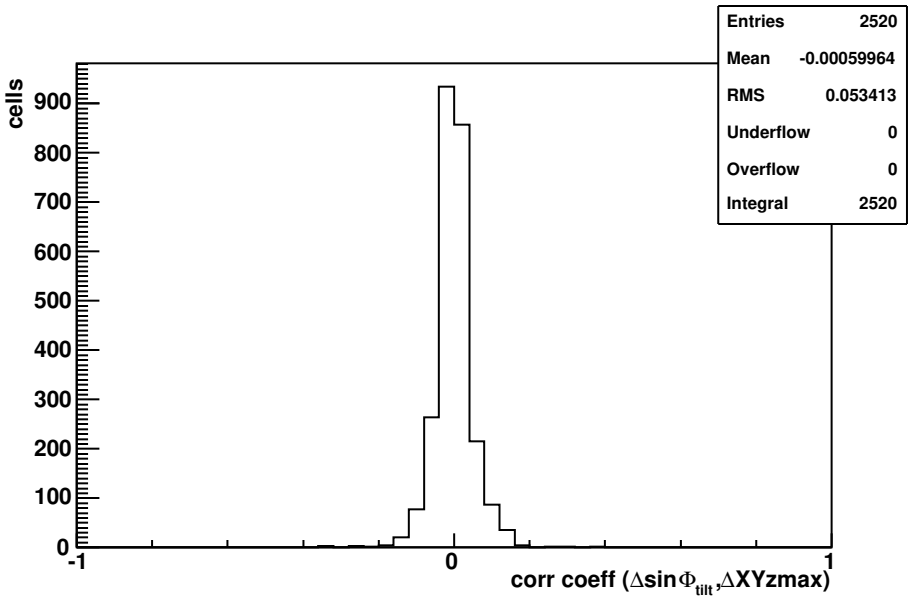

Entries 218011
Mean 0.010935
RMS 2.9931
Underflow 12058
Overflow 12358
Integral 1.6777e+05
cosmics
7000
6000
5000
4000
3000
2000
1000
0
-10
0
10
Δp_T

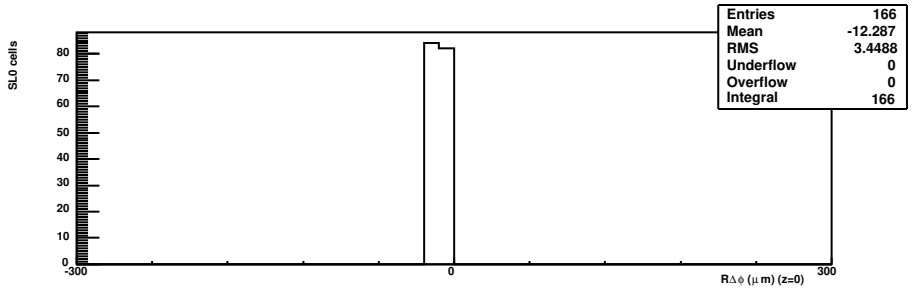

Entries 121842
Mean -0.95705
RMS 2.8161
Underflow 9175.4
Overflow 2919.6
Integral 83919
cosmics
4000
3500
3000
2500
2000
1500
1000
500
0
-10
0
10
Δp_T (μ+)

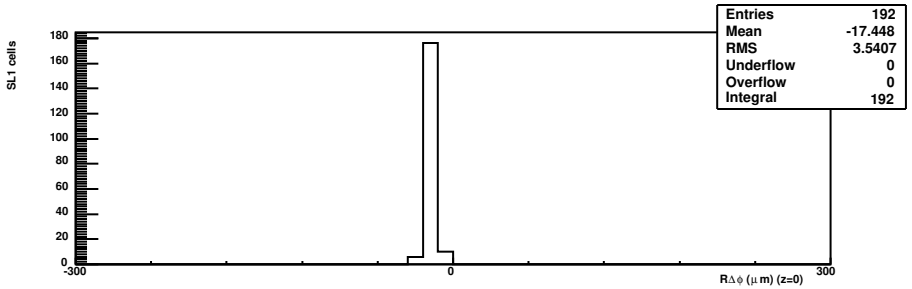

Entries 96169
Mean 0.97972
RMS 2.848
Underflow 2883
Overflow 9438
Integral 83848
cosmics
4000
3500
3000
2500
2000
1500
1000
500
0
-10
0
10
Δp_T (μ-)

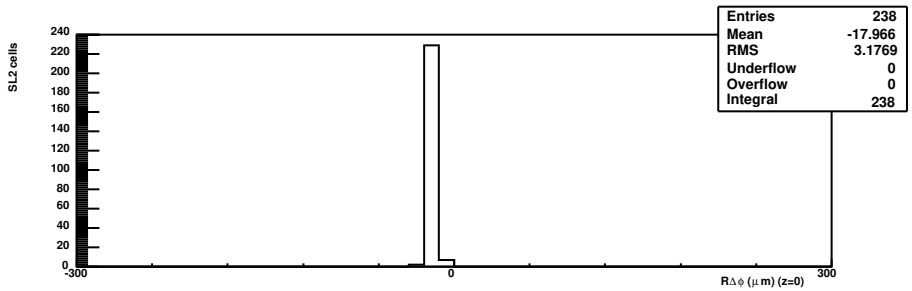

Entries 2520
Mean 0.033125
RMS 0.11595
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔsinΦ_{tilt})

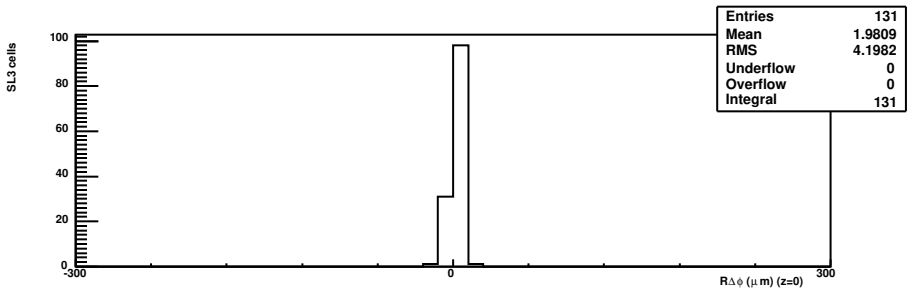

Entries 2520
Mean 0.0067269
RMS 0.11415
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔXYzmax)

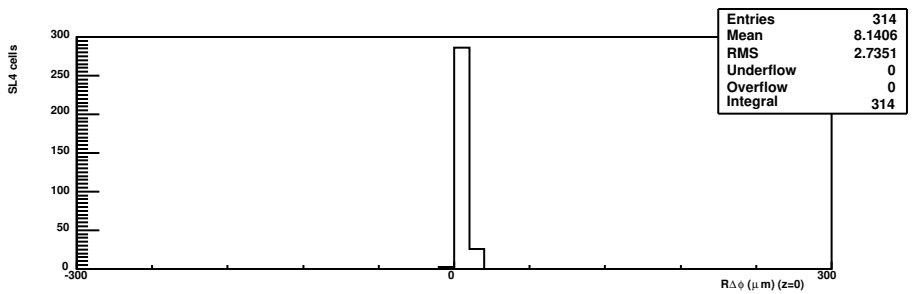

Entries 2520
Mean -0.00059964
RMS 0.053413
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔsinΦ_{tilt},ΔXYzmax)

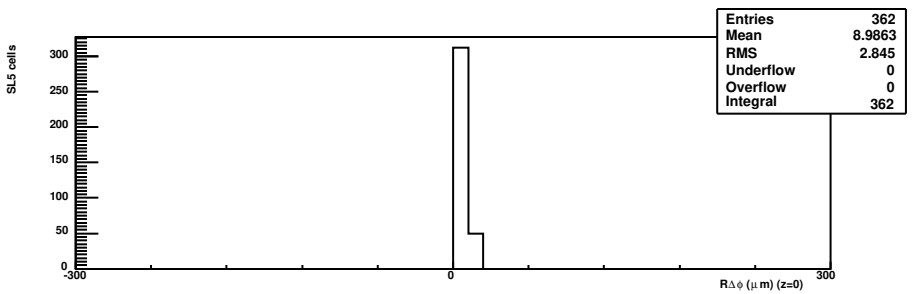

Entries 166
Mean -12.287
RMS 3.4488
Underflow 0
Overflow 0
Integral 166
SL0 cells
RΔφ (μm) (z=0)

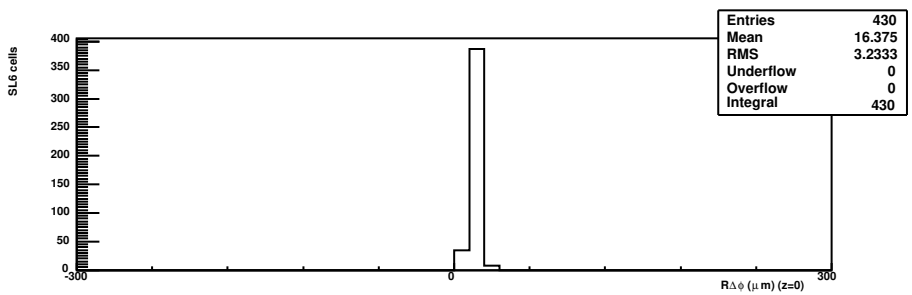

Entries 192
Mean -17.448
RMS 3.5407
Underflow 0
Overflow 0
Integral 192
SL1 cells
RΔφ (μm) (z=0)

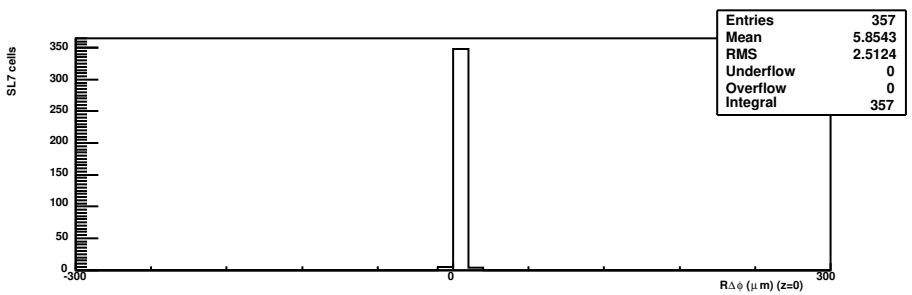

Entries 238
Mean -17.966
RMS 3.1769
Underflow 0
Overflow 0
Integral 238
SL2 cells
RΔφ (μm) (z=0)

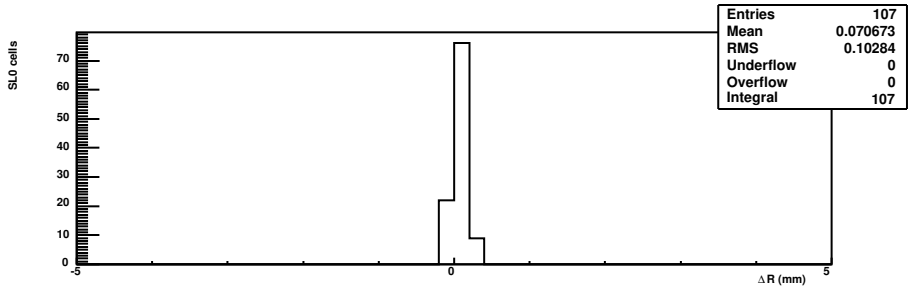

Entries 131
Mean 1.9809
RMS 4.1982
Underflow 0
Overflow 0
Integral 131
SL3 cells
RΔφ (μm) (z=0)

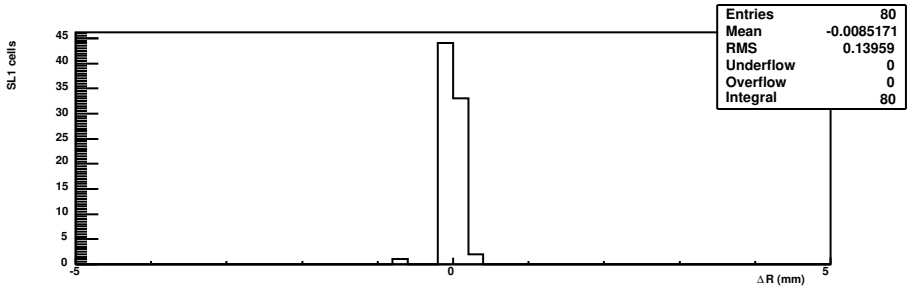

Entries 314
Mean 8.1406
RMS 2.7351
Underflow 0
Overflow 0
Integral 314
SL4 cells
RΔφ (μm) (z=0)

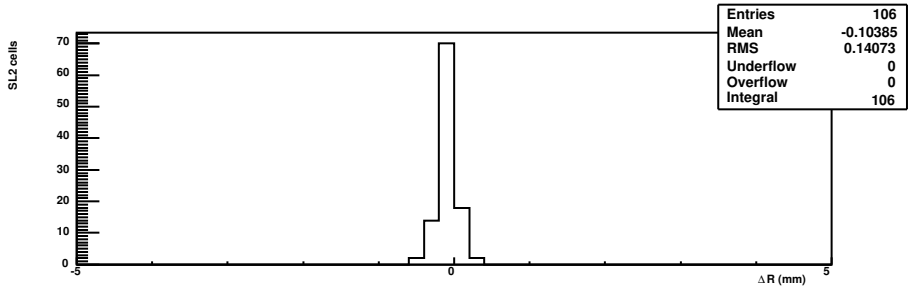

Entries 362
Mean 8.9863
RMS 2.845
Underflow 0
Overflow 0
Integral 362
SL5 cells
RΔφ (μm) (z=0)

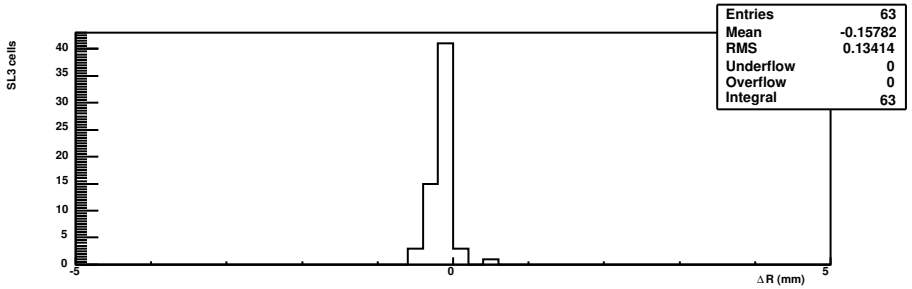

Entries 430
Mean 16.375
RMS 3.2333
Underflow 0
Overflow 0
Integral 430
SL6 cells
RΔφ (μm) (z=0)

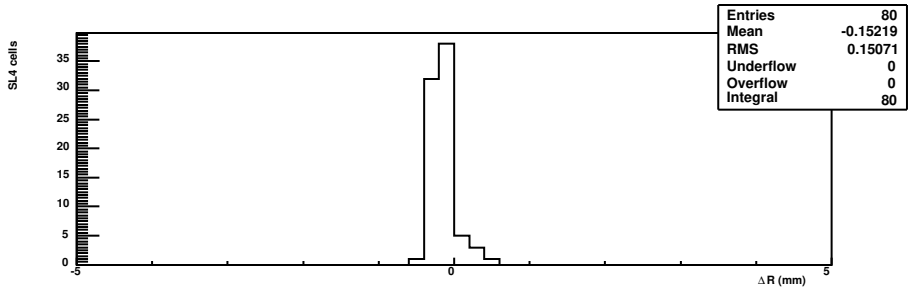

Entries 357
Mean 5.8543
RMS 2.5124
Underflow 0
Overflow 0
Integral 357
SL7 cells
RΔφ (μm) (z=0)

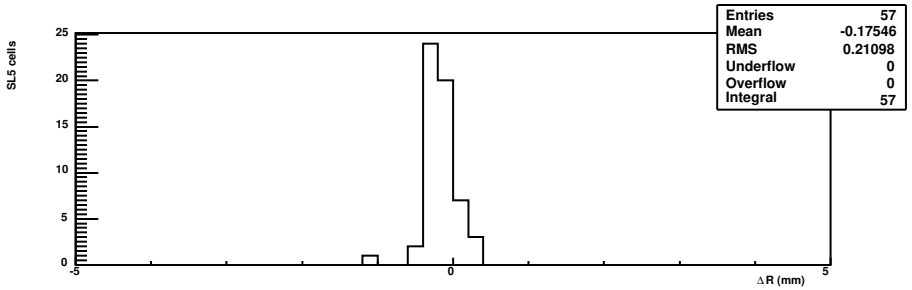

Entries 107
Mean 0.070673
RMS 0.10284
Underflow 0
Overflow 0
Integral 107
SL0 cells
ΔR (mm)

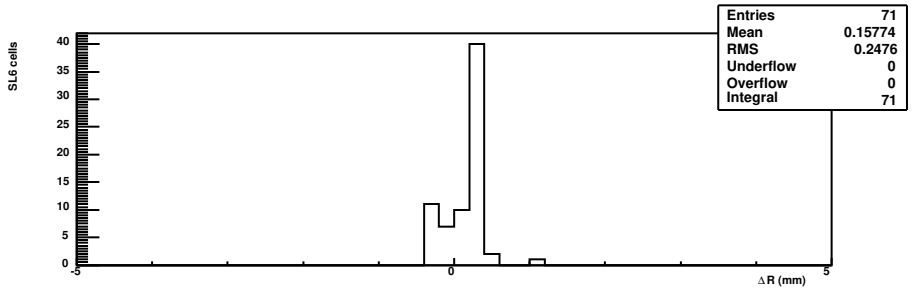

Entries 80
Mean -0.0085171
RMS 0.13959
Underflow 0
Overflow 0
Integral 80
SL1 cells
ΔR (mm)

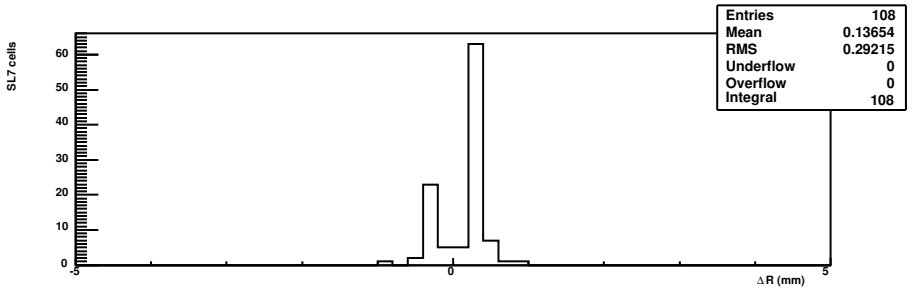

Entries 106
Mean -0.10385
RMS 0.14073
Underflow 0
Overflow 0
Integral 106
SL2 cells
ΔR (mm)

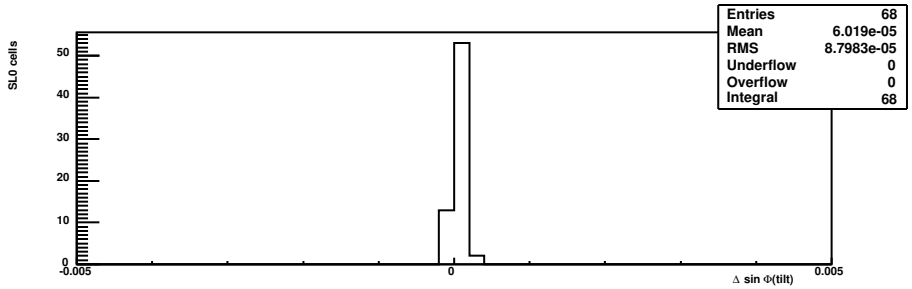

Entries 63
Mean -0.15782
RMS 0.13414
Underflow 0
Overflow 0
Integral 63
SL3 cells
ΔR (mm)

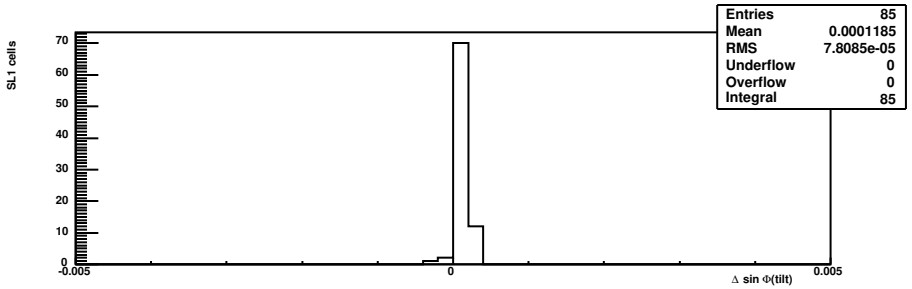

Entries 80
Mean -0.15219
RMS 0.15071
Underflow 0
Overflow 0
Integral 80
SL4 cells
ΔR (mm)

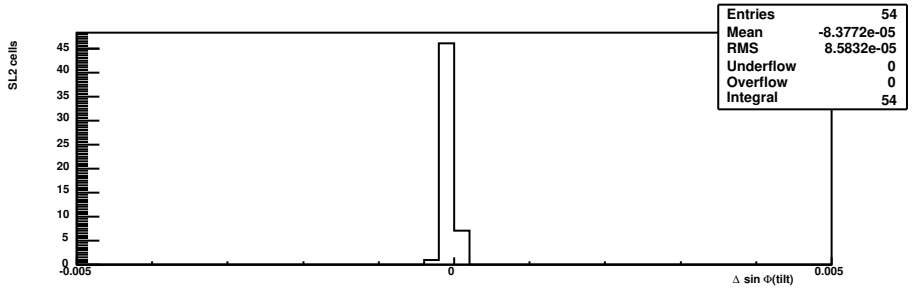

Entries 57
Mean -0.17546
RMS 0.21098
Underflow 0
Overflow 0
Integral 57
SL5 cells
ΔR (mm)

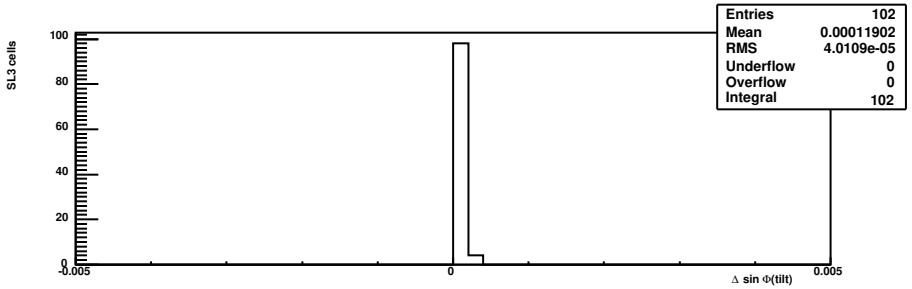

Entries 71
Mean 0.15774
RMS 0.2476
Underflow 0
Overflow 0
Integral 71
SL6 cells
ΔR (mm)

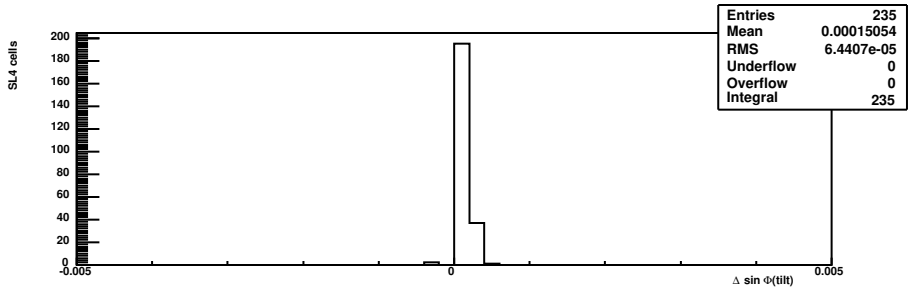

Entries 108
Mean 0.13654
RMS 0.29215
Underflow 0
Overflow 0
Integral 108
SL7 cells
ΔR (mm)

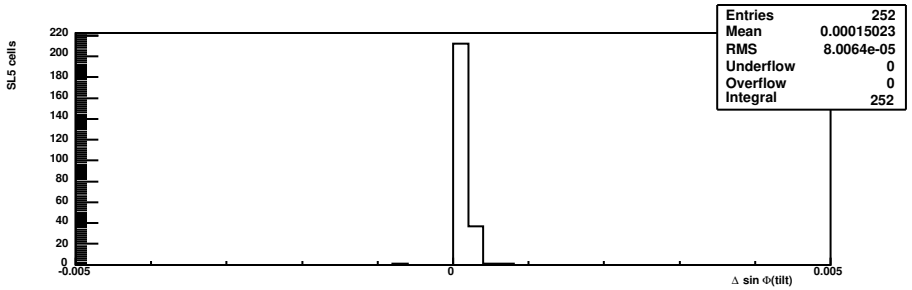

SL0 cells
Entries 68
Mean 6.019e-05
RMS 8.7983e-05
Underflow 0
Overflow 0
Integral 68
Δ sin Φ(tilt)

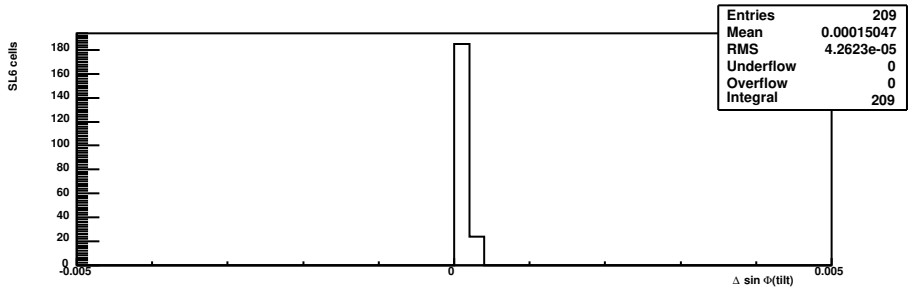

SL1 cells
Entries 85
Mean 0.0001185
RMS 7.8085e-05
Underflow 0
Overflow 0
Integral 85
Δ sin Φ(tilt)

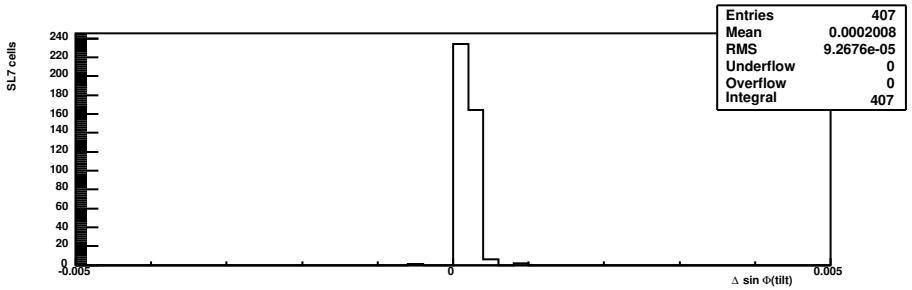

SL2 cells
Entries 54
Mean -8.3772e-05
RMS 8.5832e-05
Underflow 0
Overflow 0
Integral 54
Δ sin Φ(tilt)

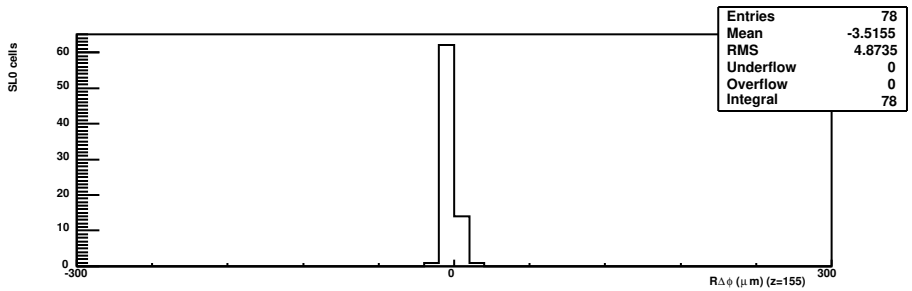

SL3 cells
Entries 102
Mean 0.00011902
RMS 4.0109e-05
Underflow 0
Overflow 0
Integral 102
Δ sin Φ(tilt)

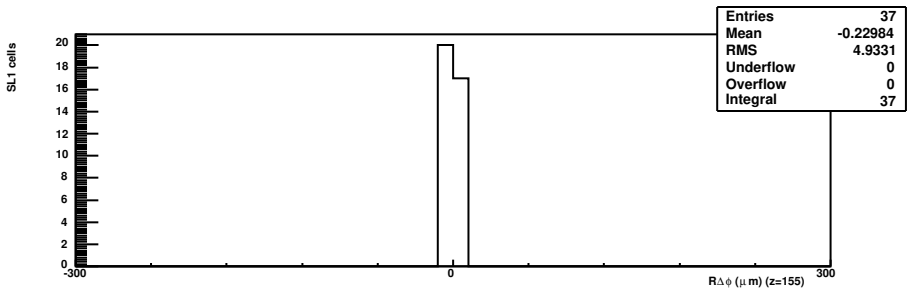

SL4 cells
Entries 235
Mean 0.00015054
RMS 6.4407e-05
Underflow 0
Overflow 0
Integral 235
Δ sin Φ(tilt)

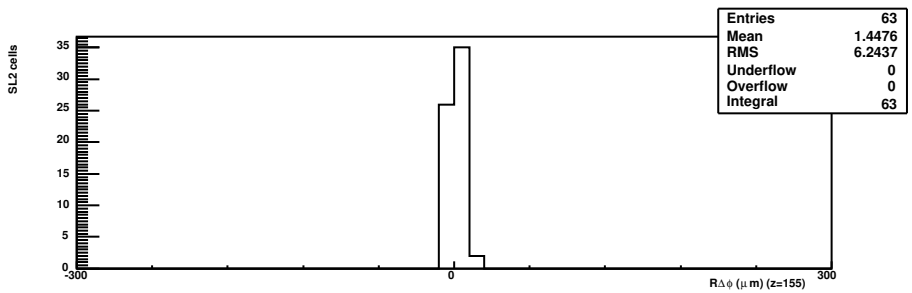

SL5 cells
Entries 252
Mean 0.00015023
RMS 8.0064e-05
Underflow 0
Overflow 0
Integral 252
Δ sin Φ(tilt)

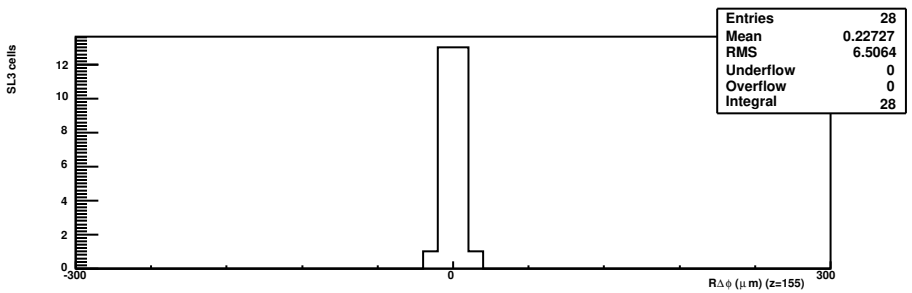

SL6 cells
Entries 209
Mean 0.00015047
RMS 4.2623e-05
Underflow 0
Overflow 0
Integral 209
Δ sin Φ(tilt)

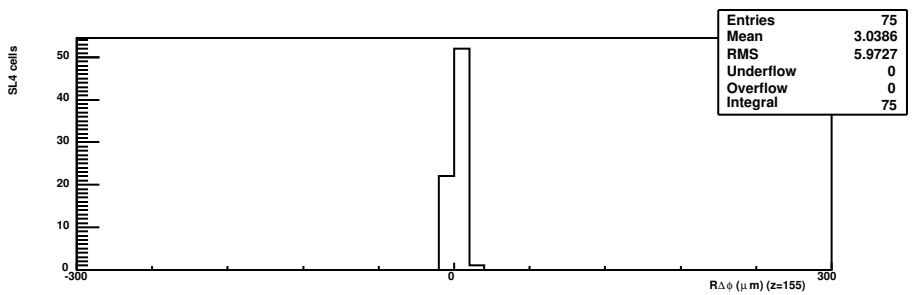

SL7 cells
Entries 407
Mean 0.0002008
RMS 9.2676e-05
Underflow 0
Overflow 0
Integral 407
Δ sin Φ(tilt)

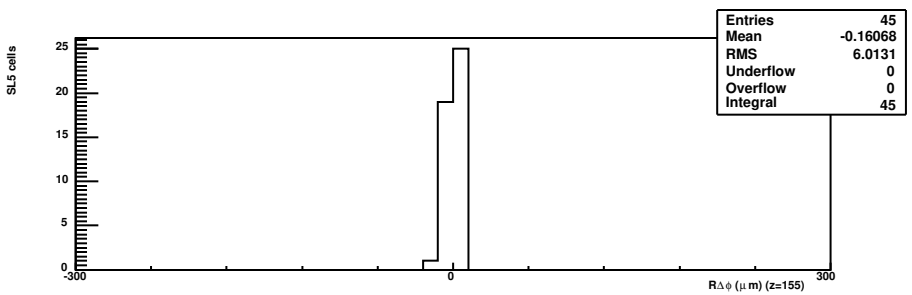

Entries 78
Mean -3.5155
RMS 4.8735
Underflow 0
Overflow 0
Integral 78
SL0 cells
RΔφ (μm) (z=155)

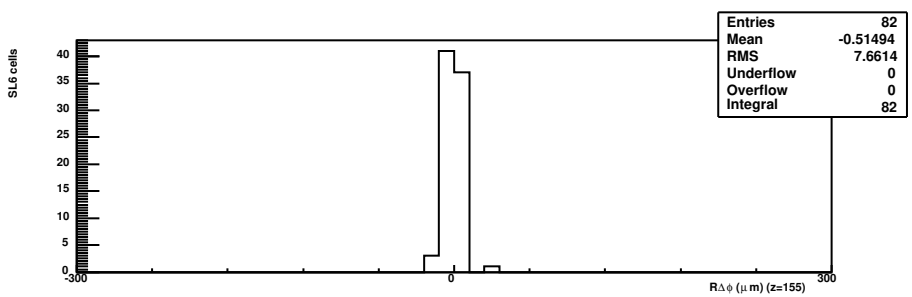

Entries 37
Mean -0.22984
RMS 4.9331
Underflow 0
Overflow 0
Integral 37
SL1 cells
RΔφ (μm) (z=155)

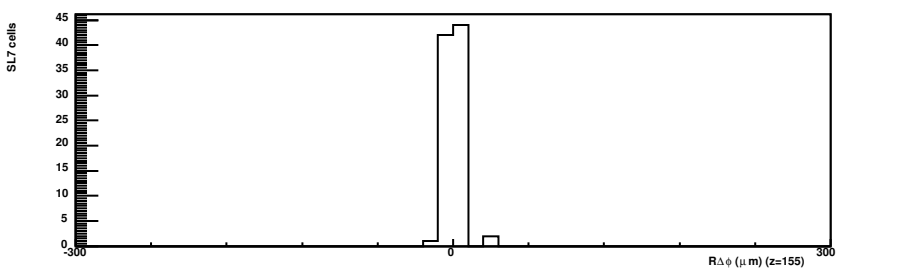

Entries 63
Mean 1.4476
RMS 6.2437
Underflow 0
Overflow 0
Integral 63
SL2 cells
RΔφ (μm) (z=155)

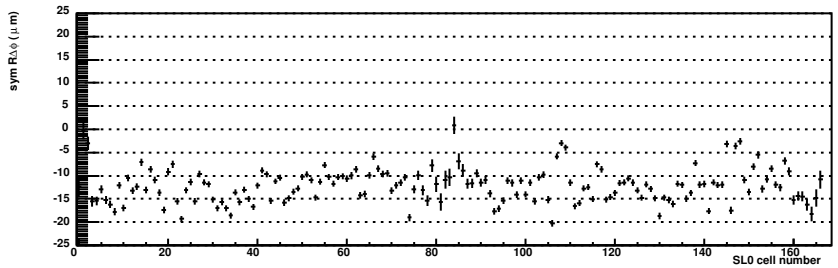

Entries 28
Mean 0.22727
RMS 6.5064
Underflow 0
Overflow 0
Integral 28
SL3 cells
RΔφ (μm) (z=155)

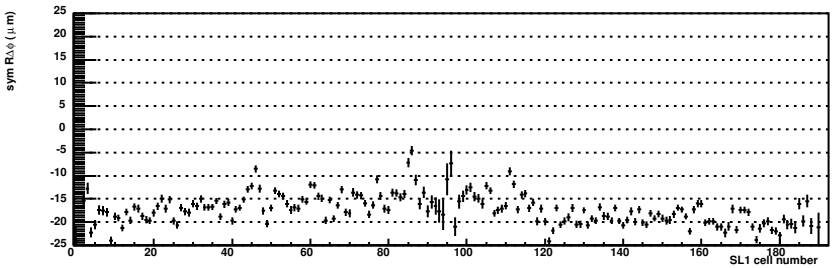

Entries 75
Mean 3.0386
RMS 5.9727
Underflow 0
Overflow 0
Integral 75
SL4 cells
RΔφ (μm) (z=155)

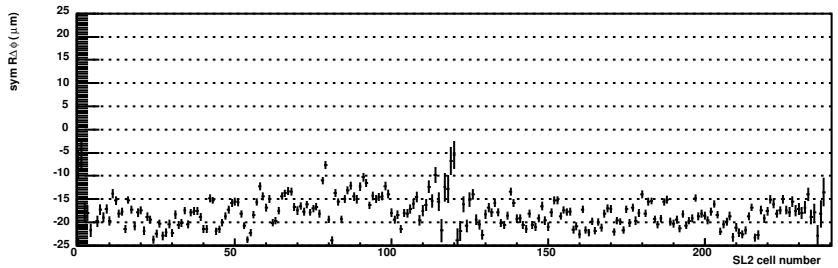

Entries 45
Mean -0.16068
RMS 6.0131
Underflow 0
Overflow 0
Integral 45
SL5 cells
RΔφ (μm) (z=155)

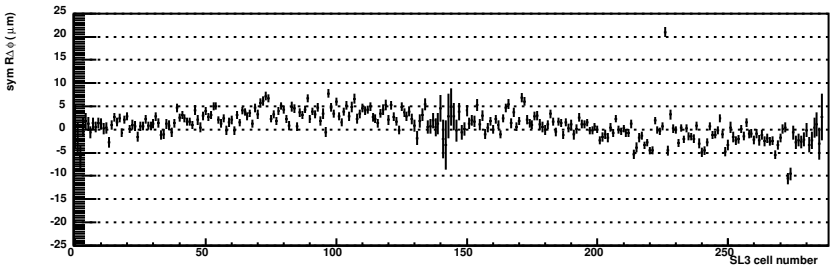

Entries 82
Mean -0.51494
RMS 7.6614
Underflow 0
Overflow 0
Integral 82
SL6 cells
RΔφ (μm) (z=155)

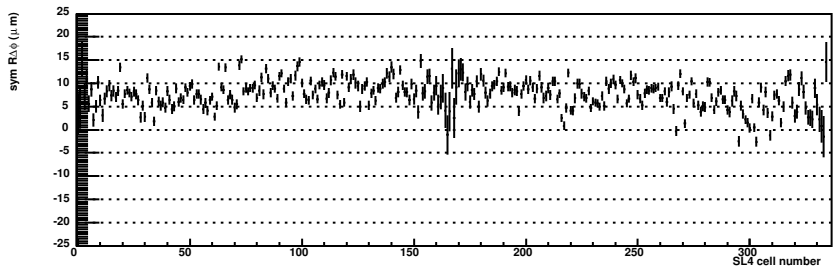

SL7 cells
RΔφ (μm) (z=155)

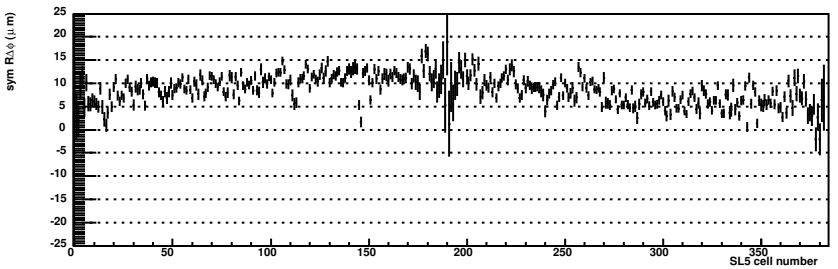

sym RΔφ (μm)
SL0 cell number

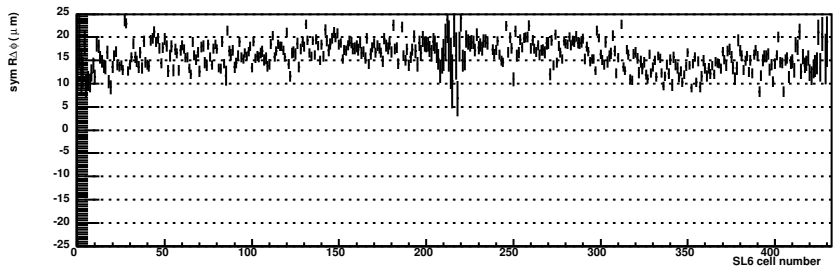

sym RΔφ (μm)
SL1 cell number

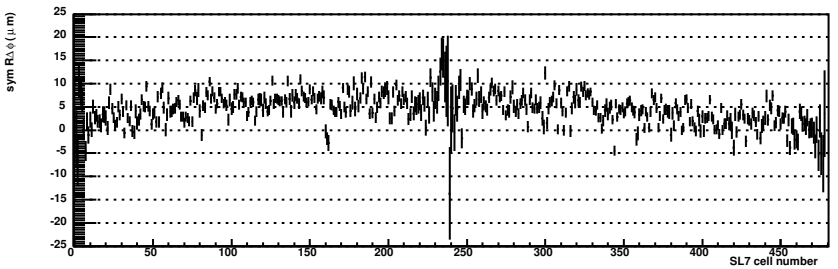

sym RΔφ (μm)
SL2 cell number

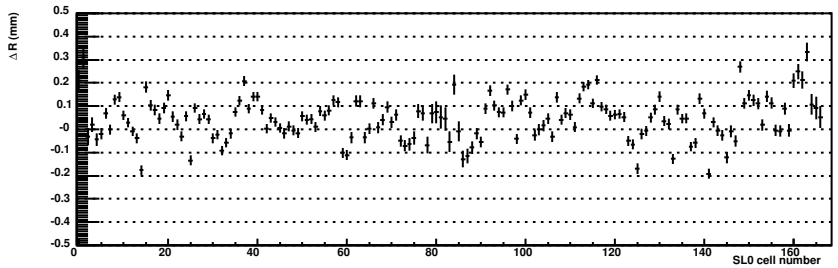

sym RΔφ (μm)
SL3 cell number

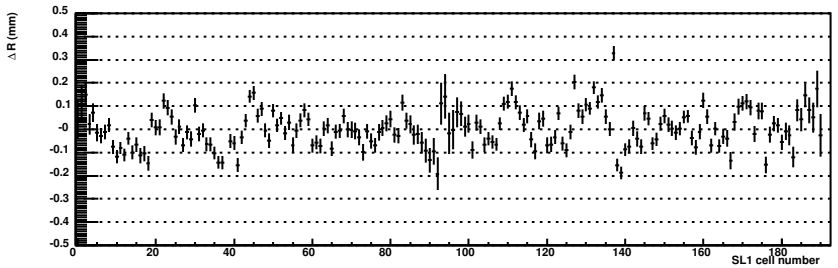

sym RΔφ (μm)
SL4 cell number

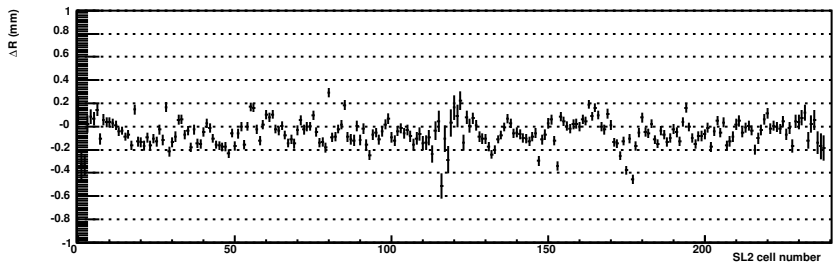

sym RΔφ (μm)
SL5 cell number

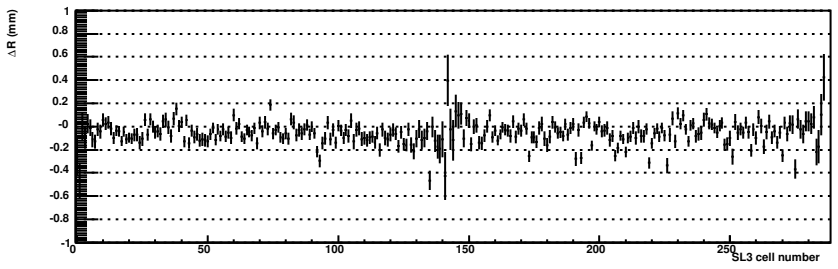

sym RΔφ (μm)
SL6 cell number

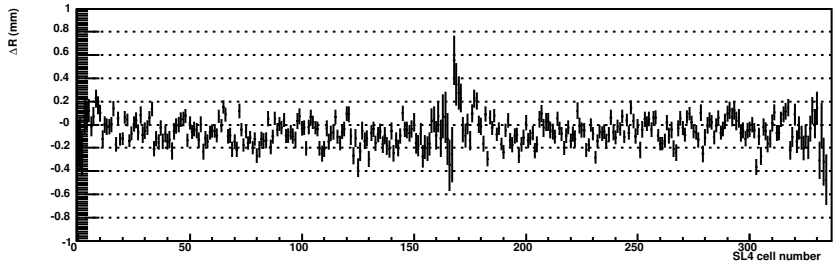

sym RΔφ (μm)
SL7 cell number

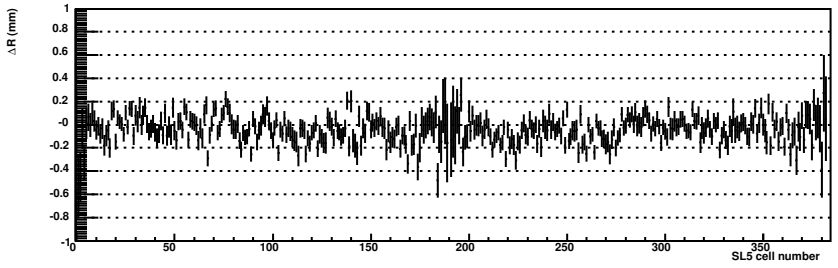

ΔR (mm)
SL0 cell number

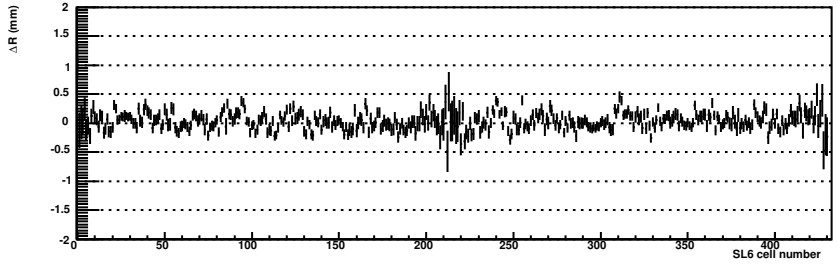

ΔR (mm)
SL1 cell number

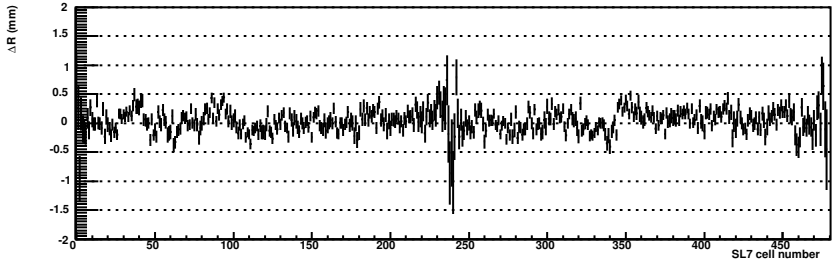

ΔR (mm)
SL2 cell number

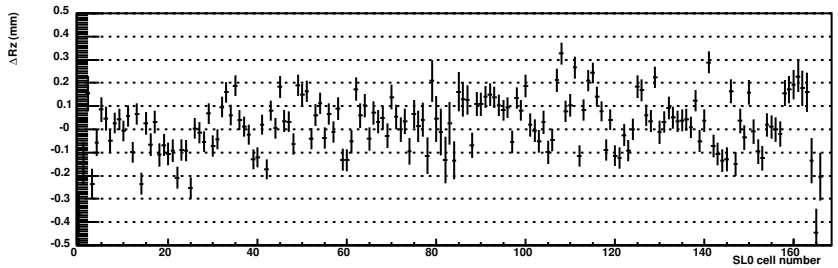

ΔR (mm)
SL3 cell number

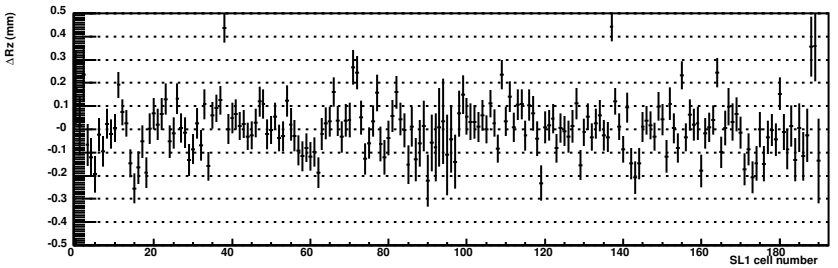

ΔR (mm)
SL4 cell number

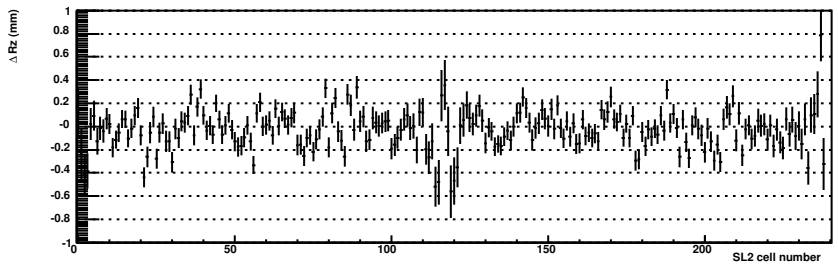

ΔR (mm)
SL5 cell number

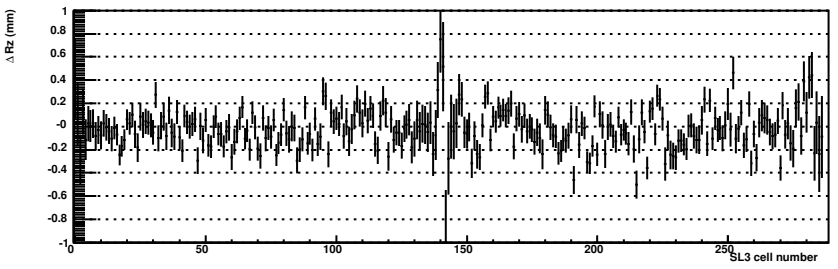

ΔR (mm)
SL6 cell number

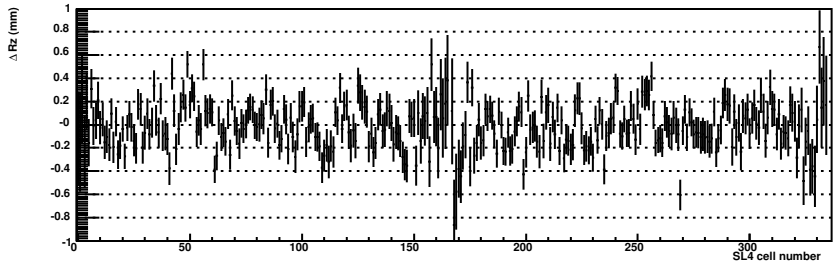

ΔR (mm)
SL7 cell number

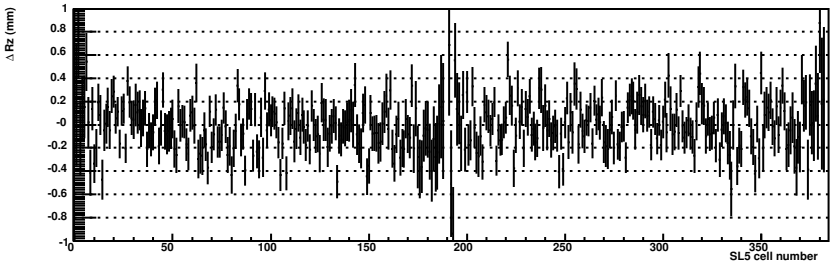

ΔRz (mm)
SL0 cell number

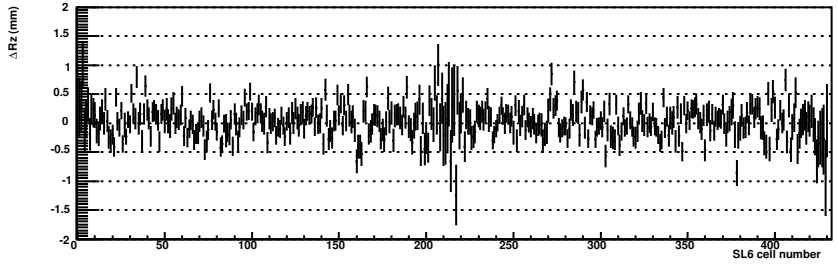

ΔRz (mm)
SL1 cell number

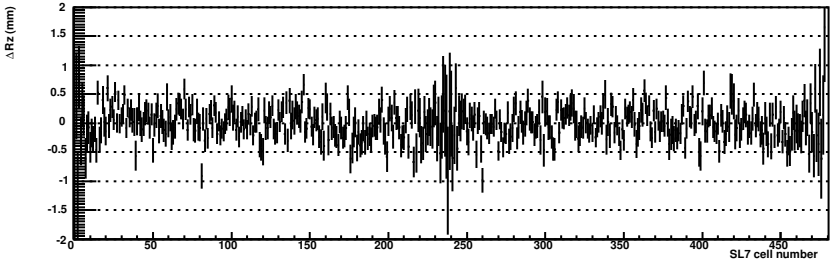

ΔRz (mm)
SL2 cell number

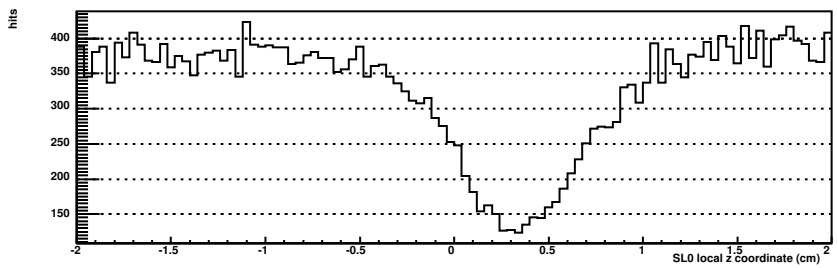

ΔRz (mm)
SL3 cell number

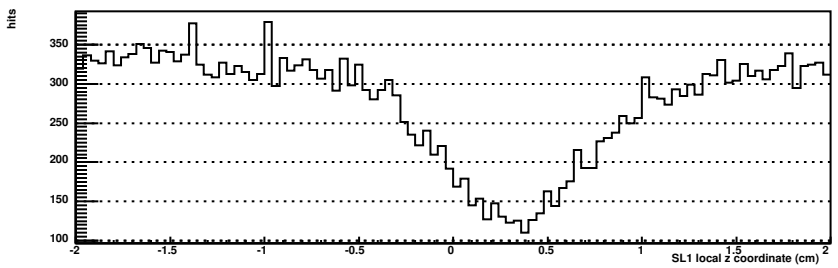

ΔRz (mm)
SL4 cell number

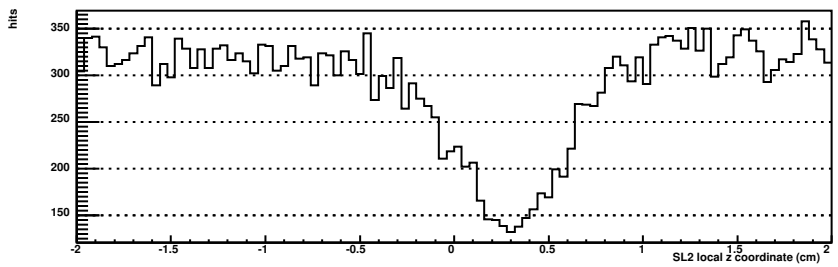

ΔRz (mm)
SL5 cell number

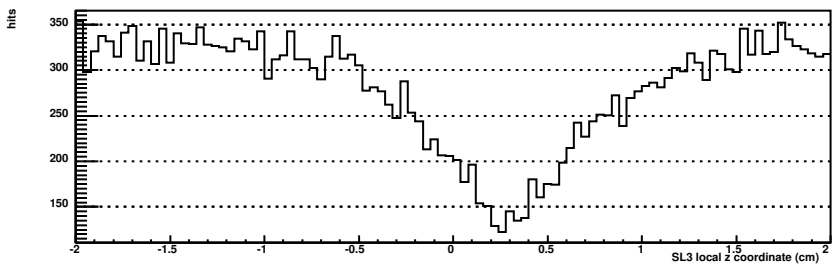

ΔRz (mm)
SL6 cell number

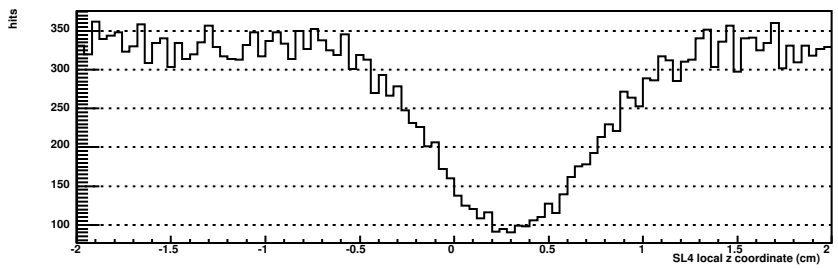

ΔRz (mm)
SL7 cell number

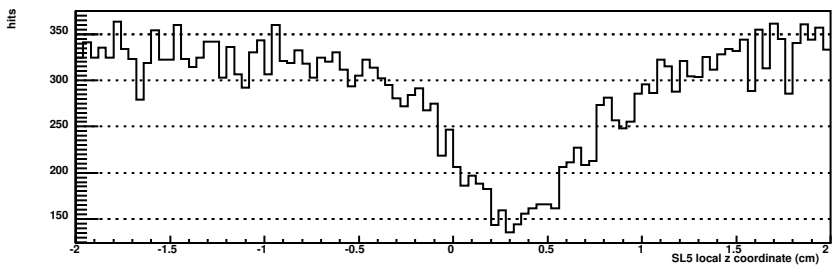

hits
SL0 local z coordinate (cm)

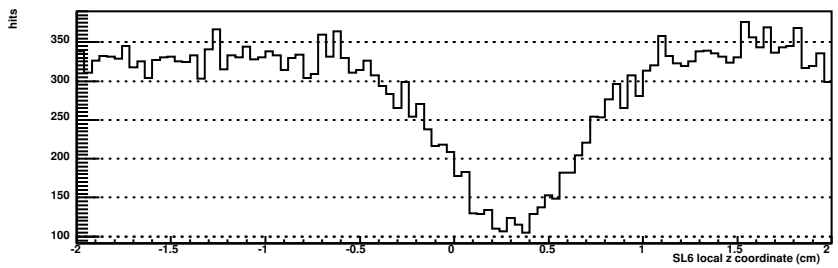

hits
SL1 local z coordinate (cm)

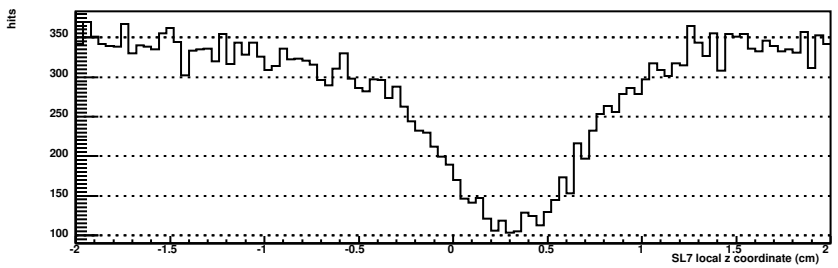

hits
SL2 local z coordinate (cm)

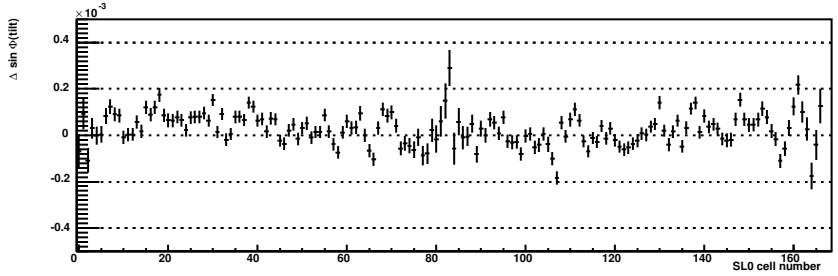

hits
SL3 local z coordinate (cm)

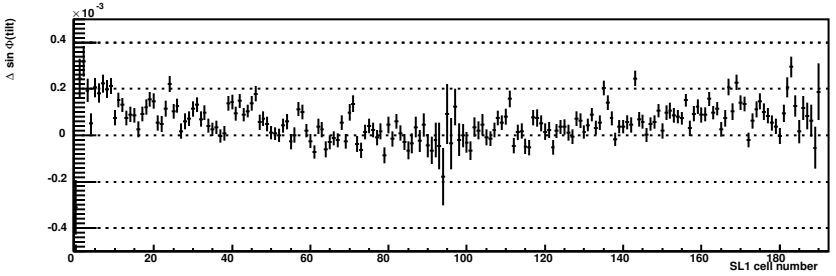

hits
SL4 local z coordinate (cm)

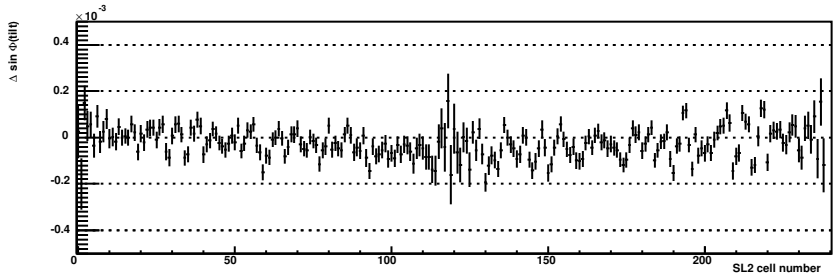

hits
SL5 local z coordinate (cm)

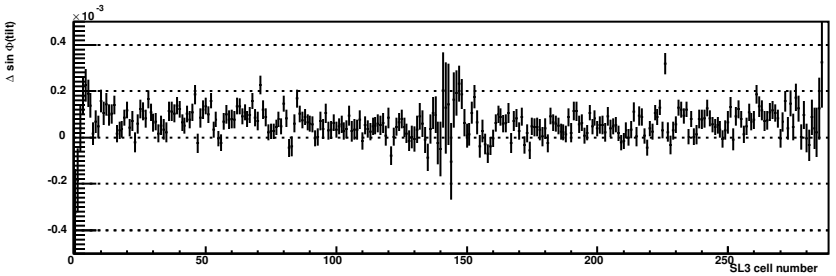

hits
SL6 local z coordinate (cm)

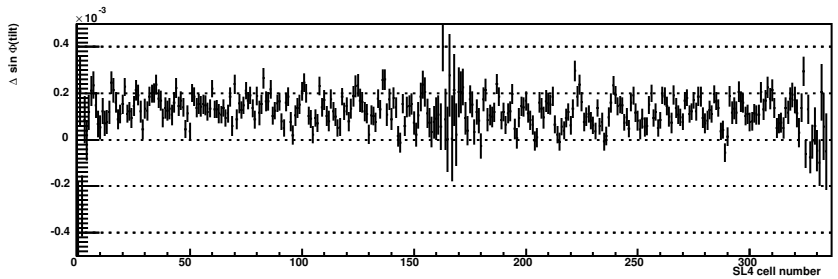

hits
SL7 local z coordinate (cm)

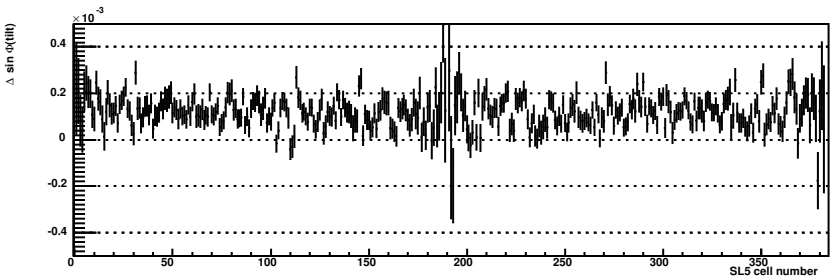

×10^-3
Δ sin Φ(tilt)
SL0 cell number

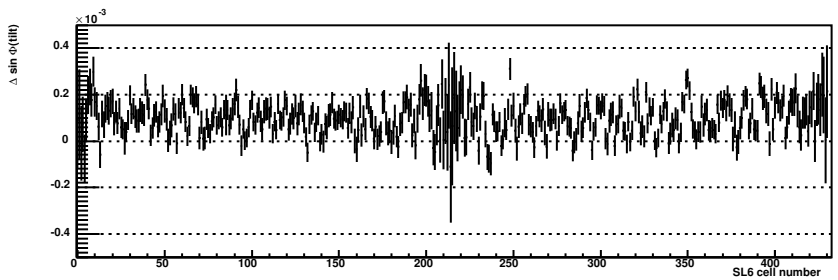

×10^-3
Δ sin Φ(tilt)
SL1 cell number

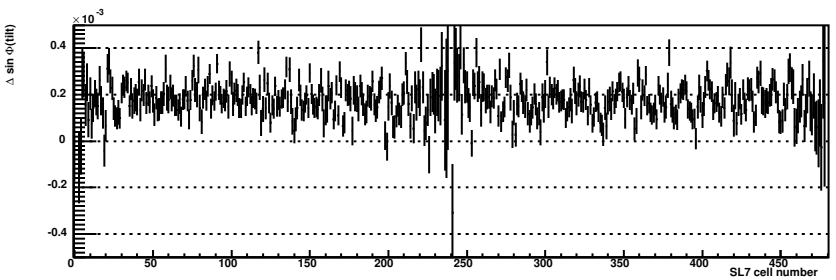

×10^-3
Δ sin Φ(tilt)
SL2 cell number

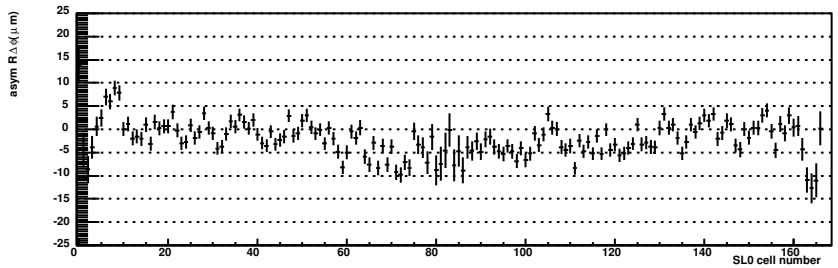

×10^-3
Δ sin Φ(tilt)
SL3 cell number

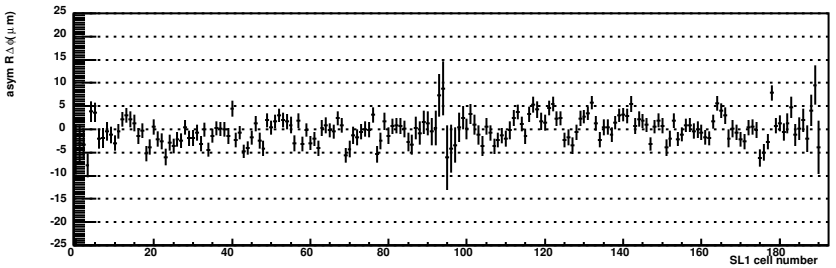

×10^-3
Δ sin Φ(tilt)
SL4 cell number

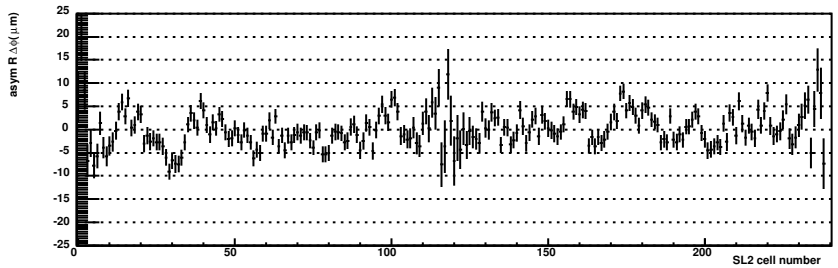

×10^-3
Δ sin Φ(tilt)
SL5 cell number

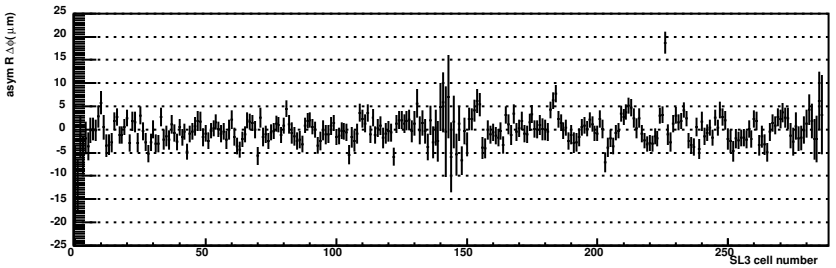

×10^-3
Δ sin Φ(tilt)
SL6 cell number

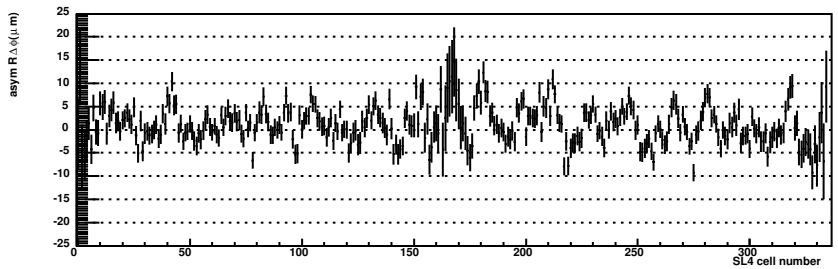

×10^-3
Δ sin Φ(tilt)
SL7 cell number

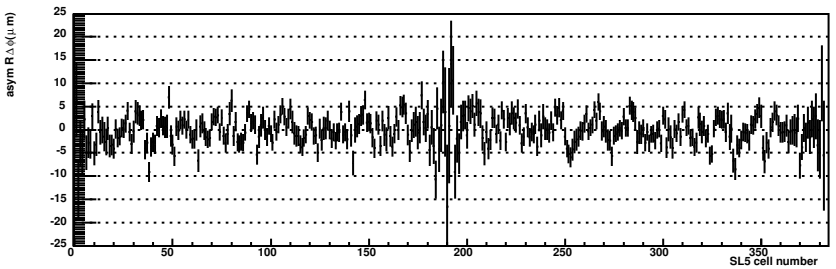

asym R Δφ(μm)
SL0 cell number

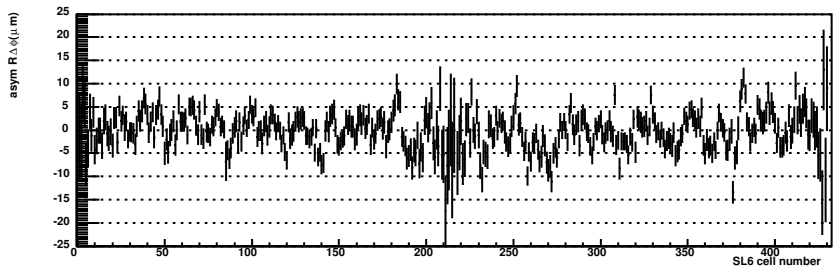

asym R Δφ(μm)
SL1 cell number

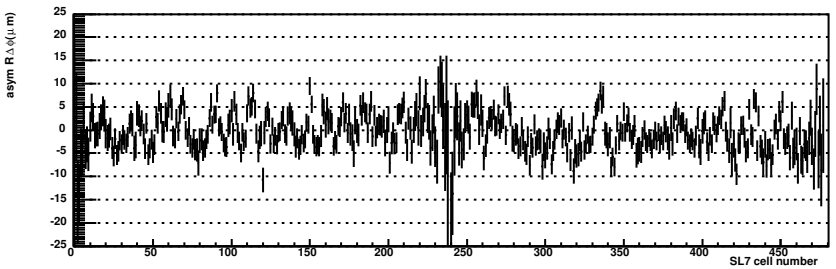

asym R Δφ(μm)
SL2 cell number

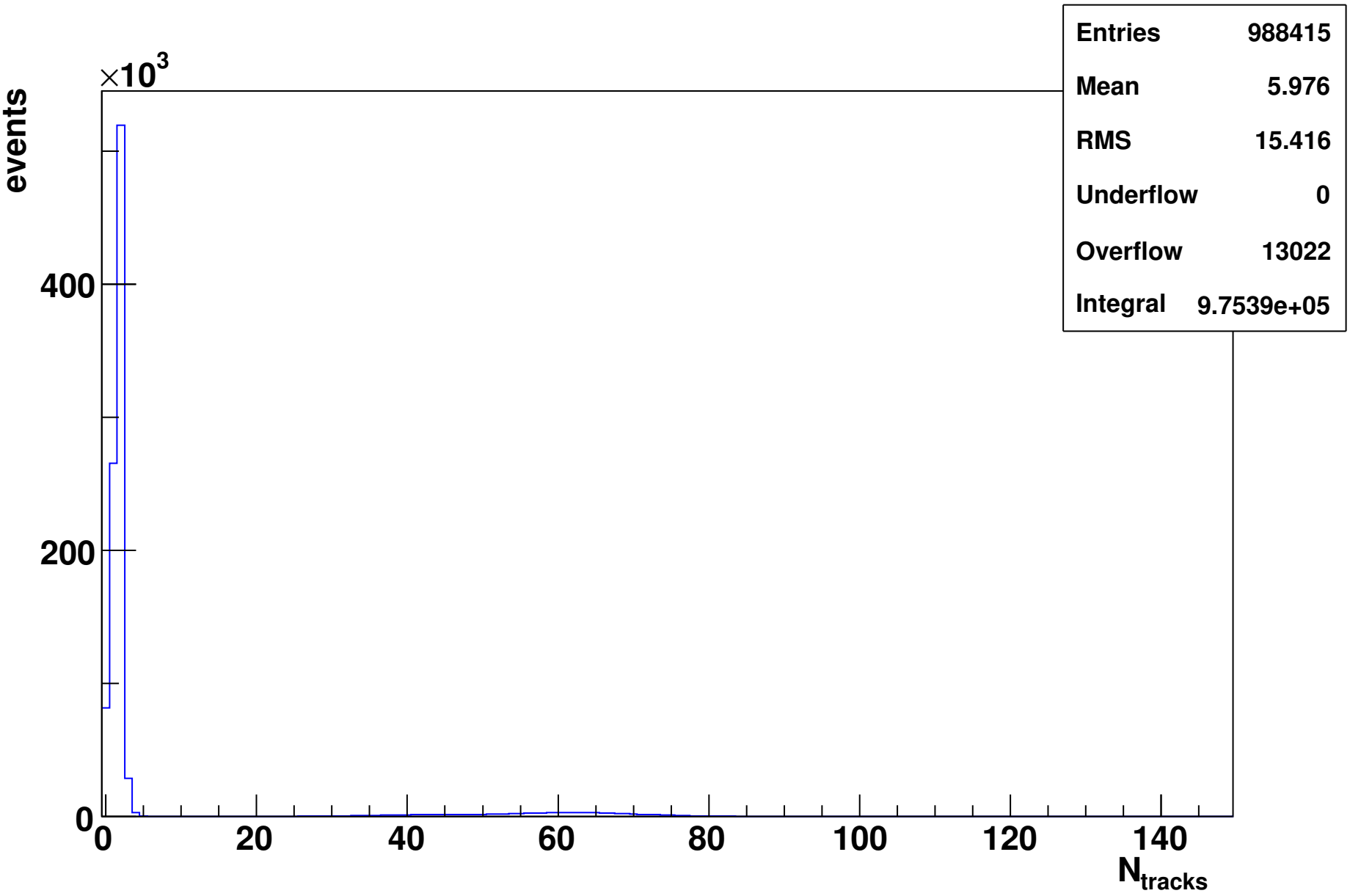

asym R Δφ(μm)
SL3 cell number

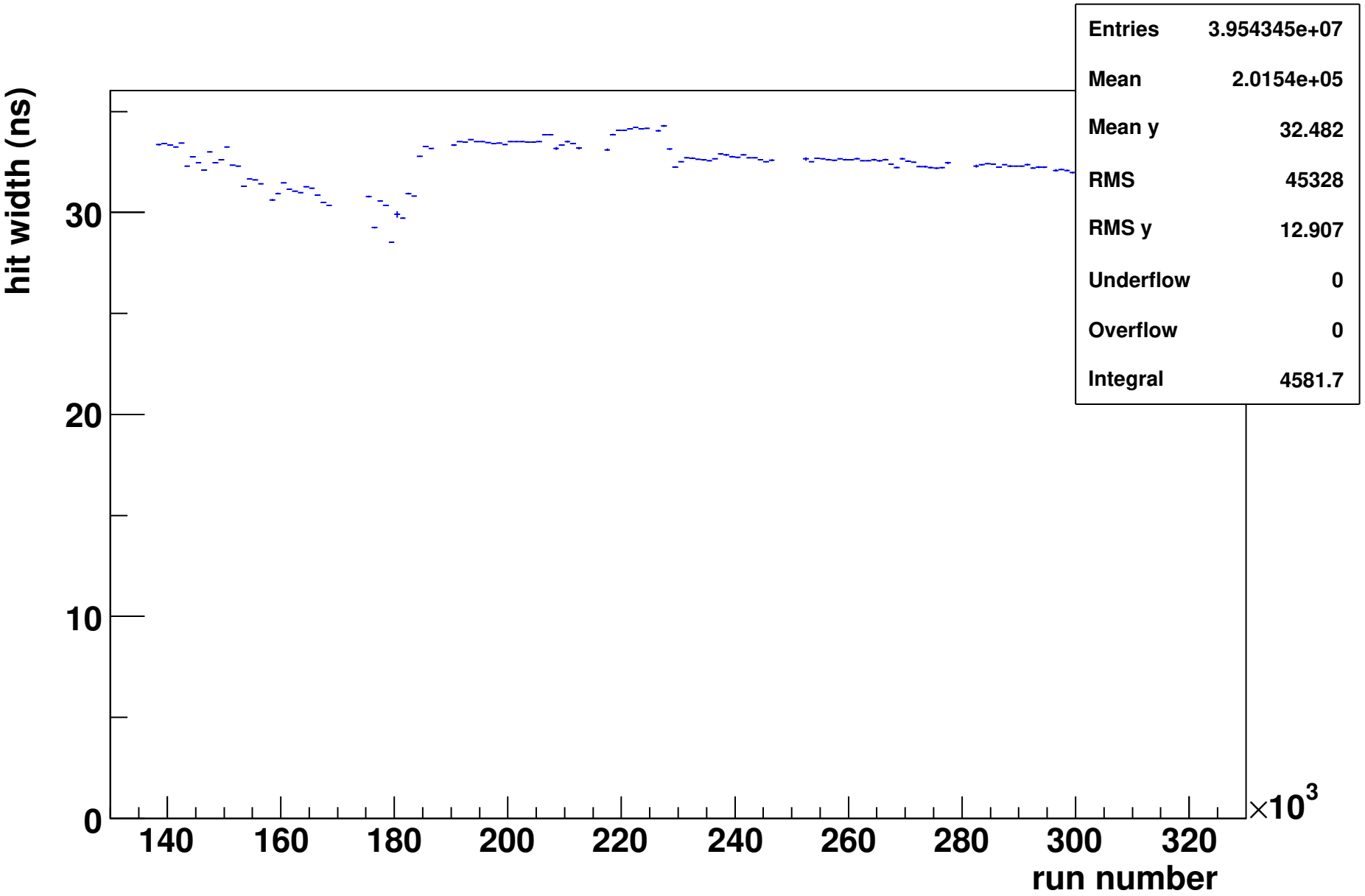

asym R Δφ(μm)
SL4 cell number

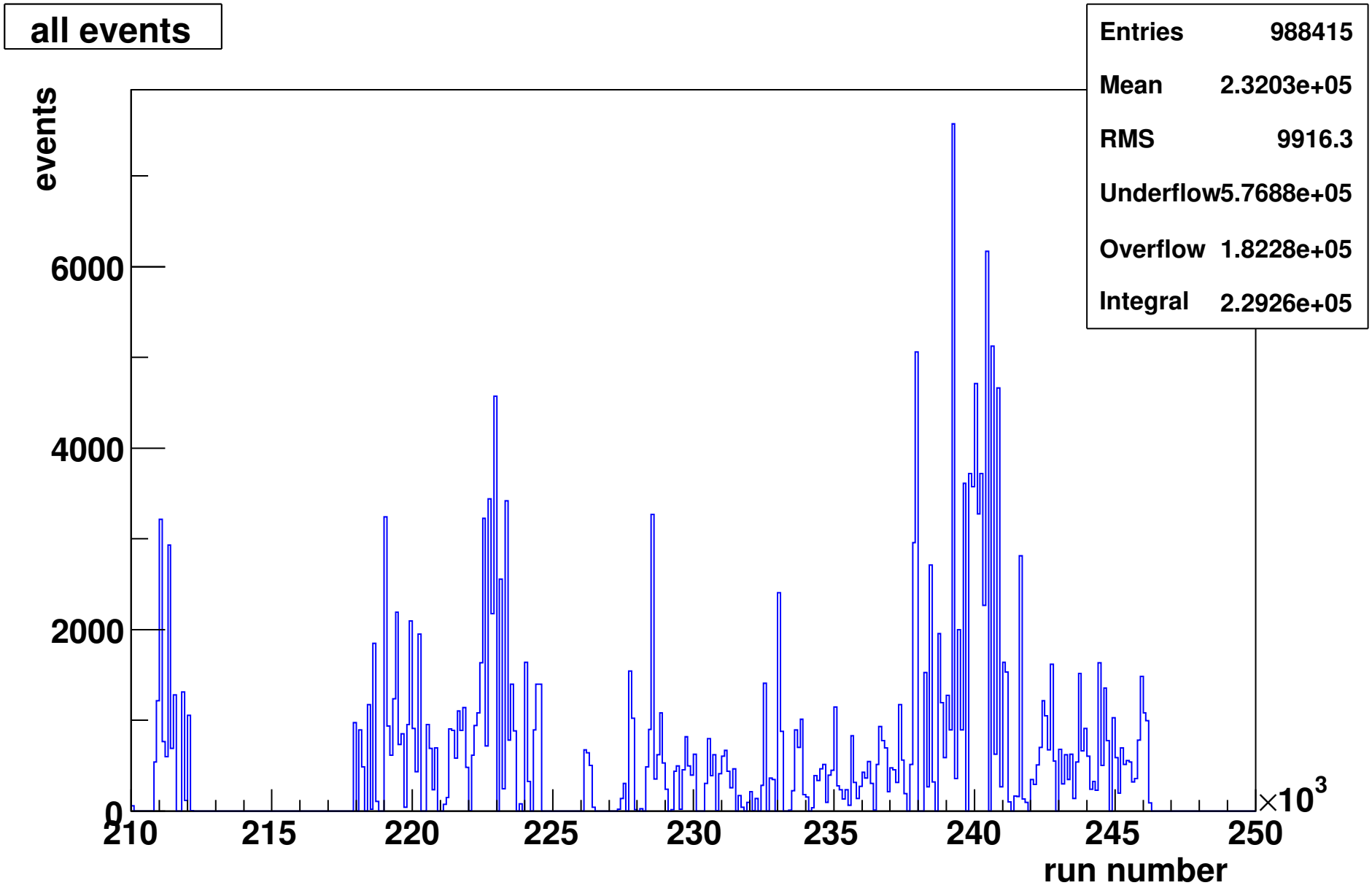

asym R Δφ(μm)
SL5 cell number

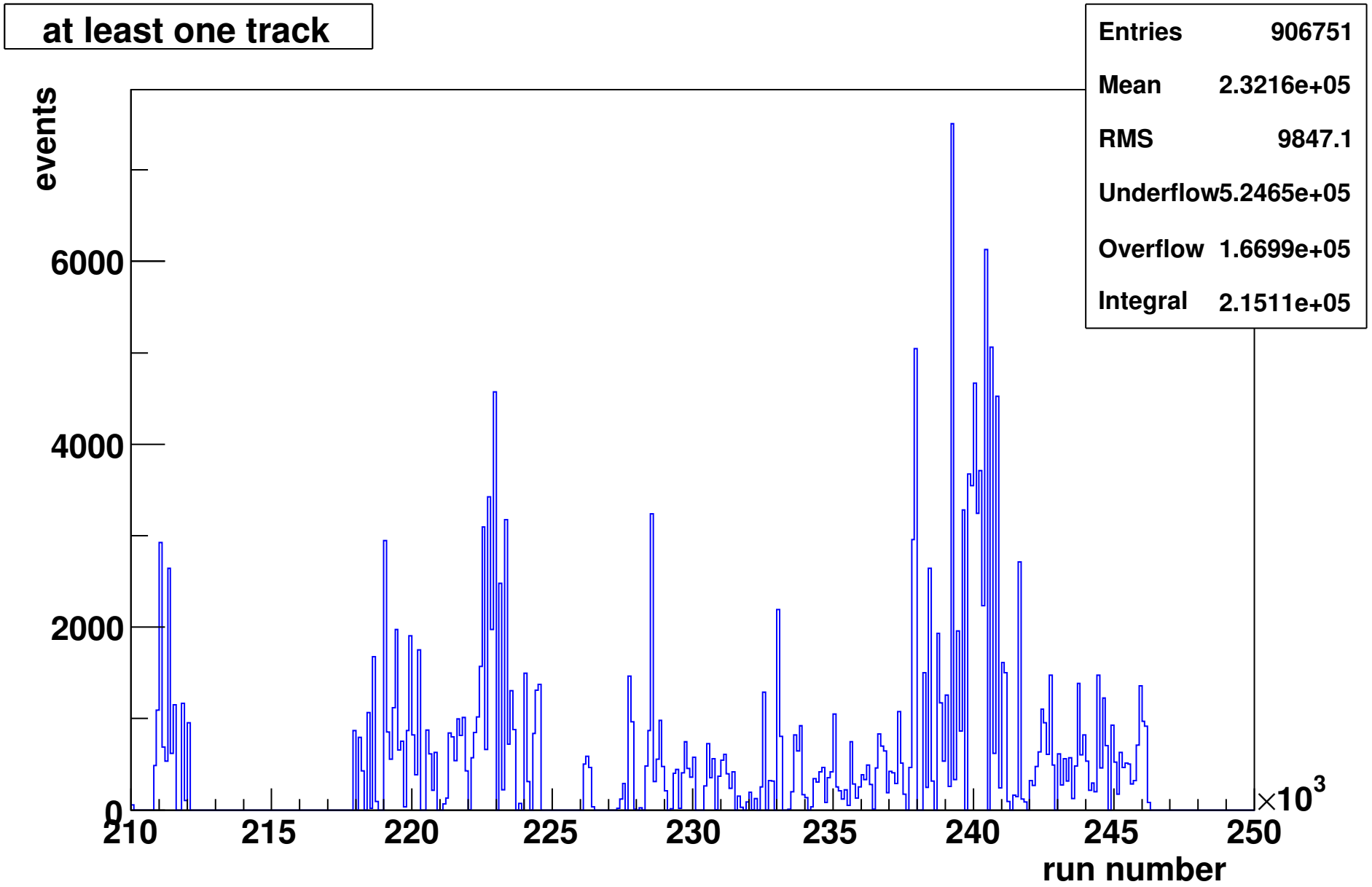

asym R Δφ(μm)
SL6 cell number

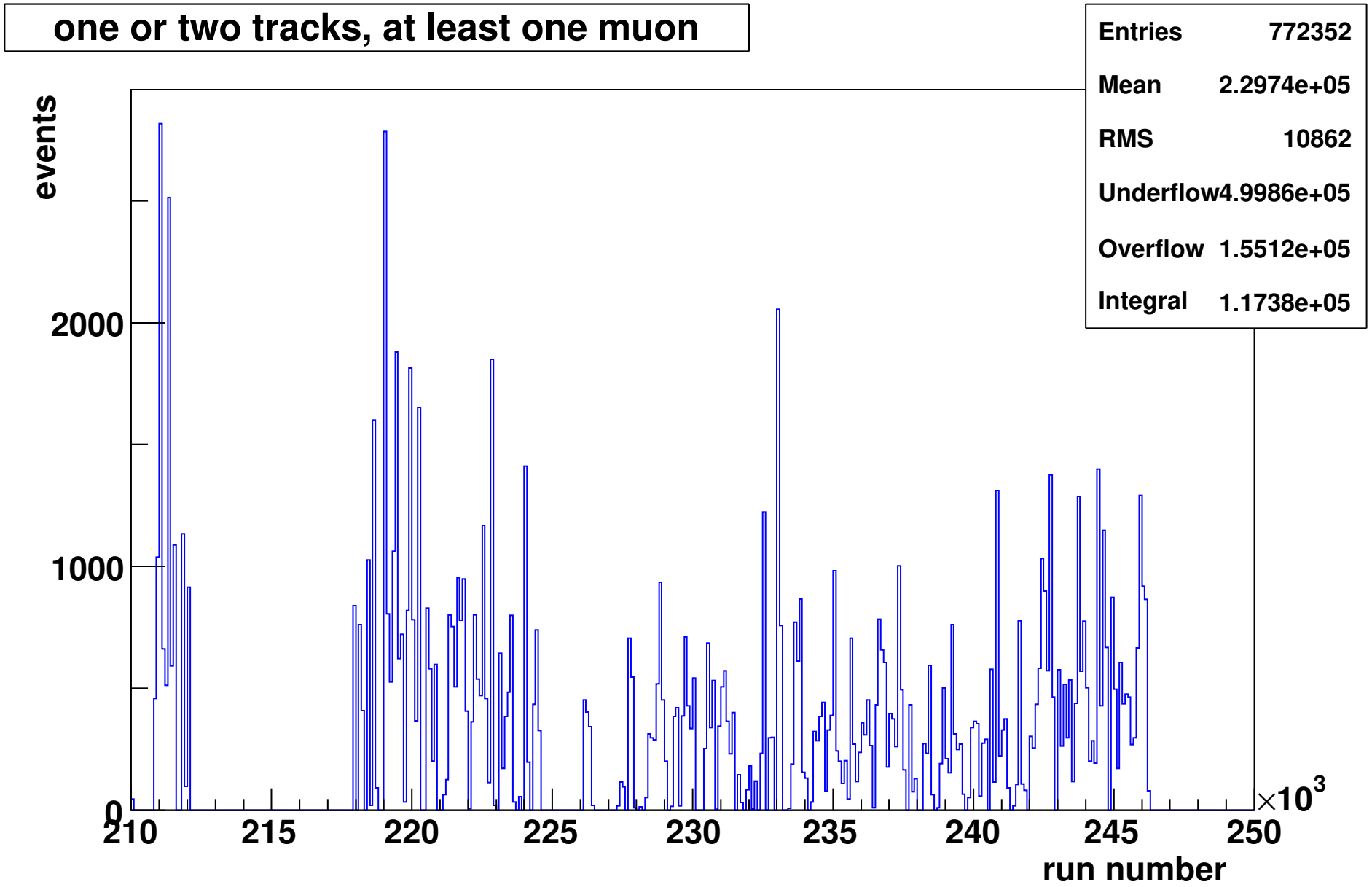

asym R Δφ(μm)
SL7 cell number

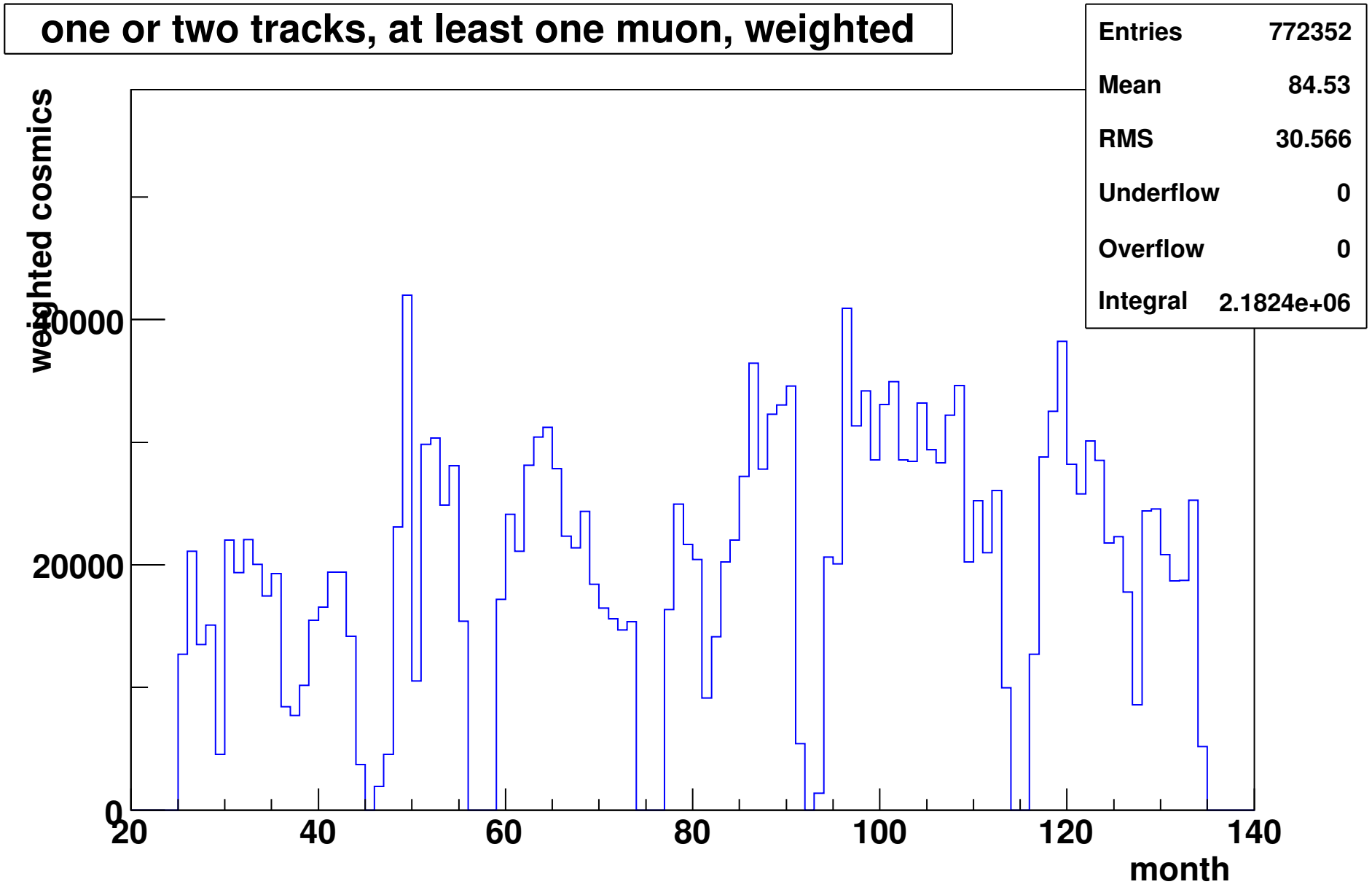

Entries 988415
Mean 5.976
RMS 15.416
Underflow 0
Overflow 13022
Integral 9.7539e+05
×10^3
events
400
200
0
0
20
40
60
80
100
120
140
N_tracks

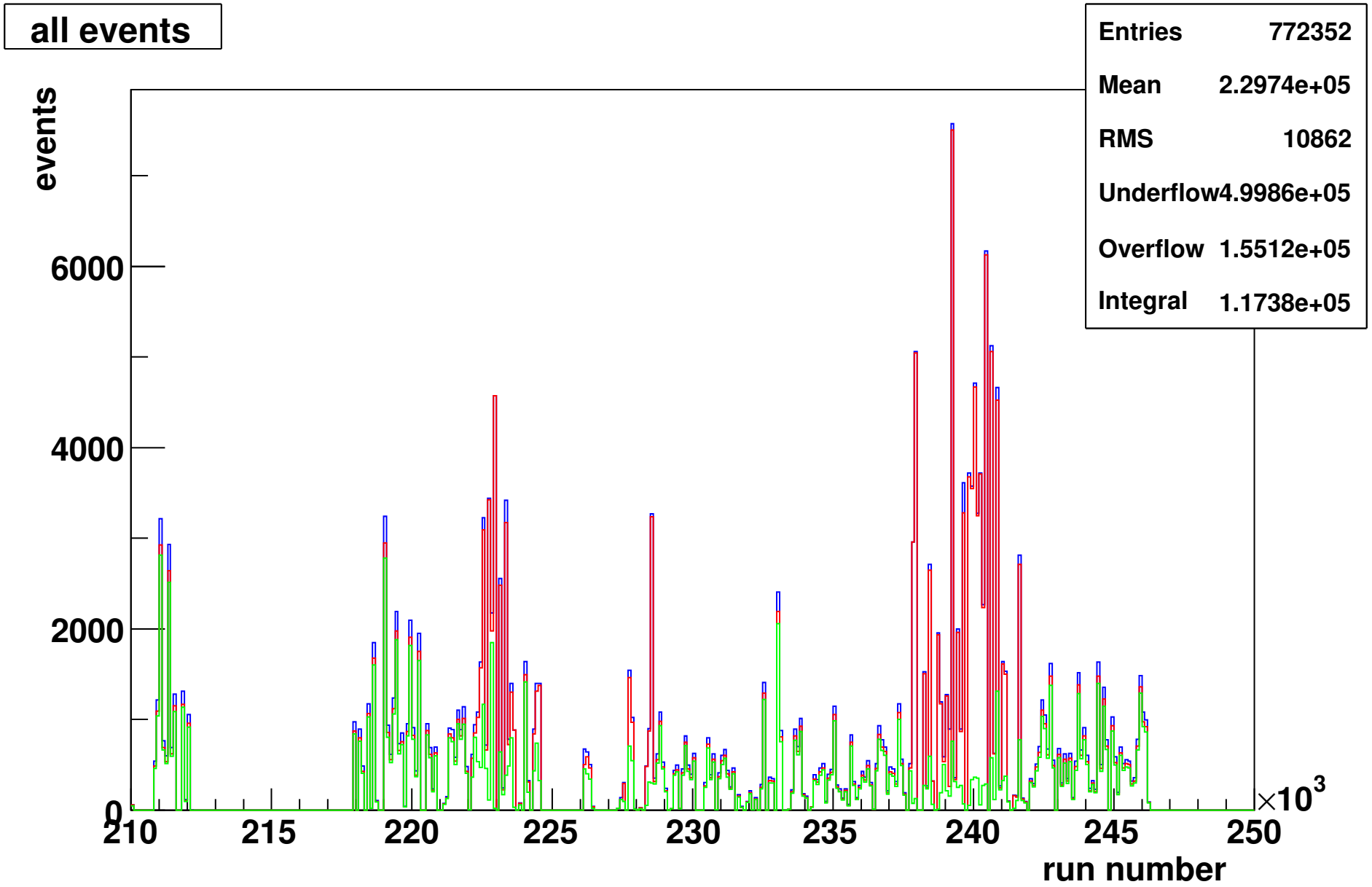

hit width (ns)
0
10
20
30
140
160
180
200
220
240
260
280
300
320
×10^3
run number
Entries 3.954345e+07
Mean 2.0154e+05
Mean y 32.482
RMS 45328
RMS y 12.907
Underflow 0
Overflow 0
Integral 4581.7

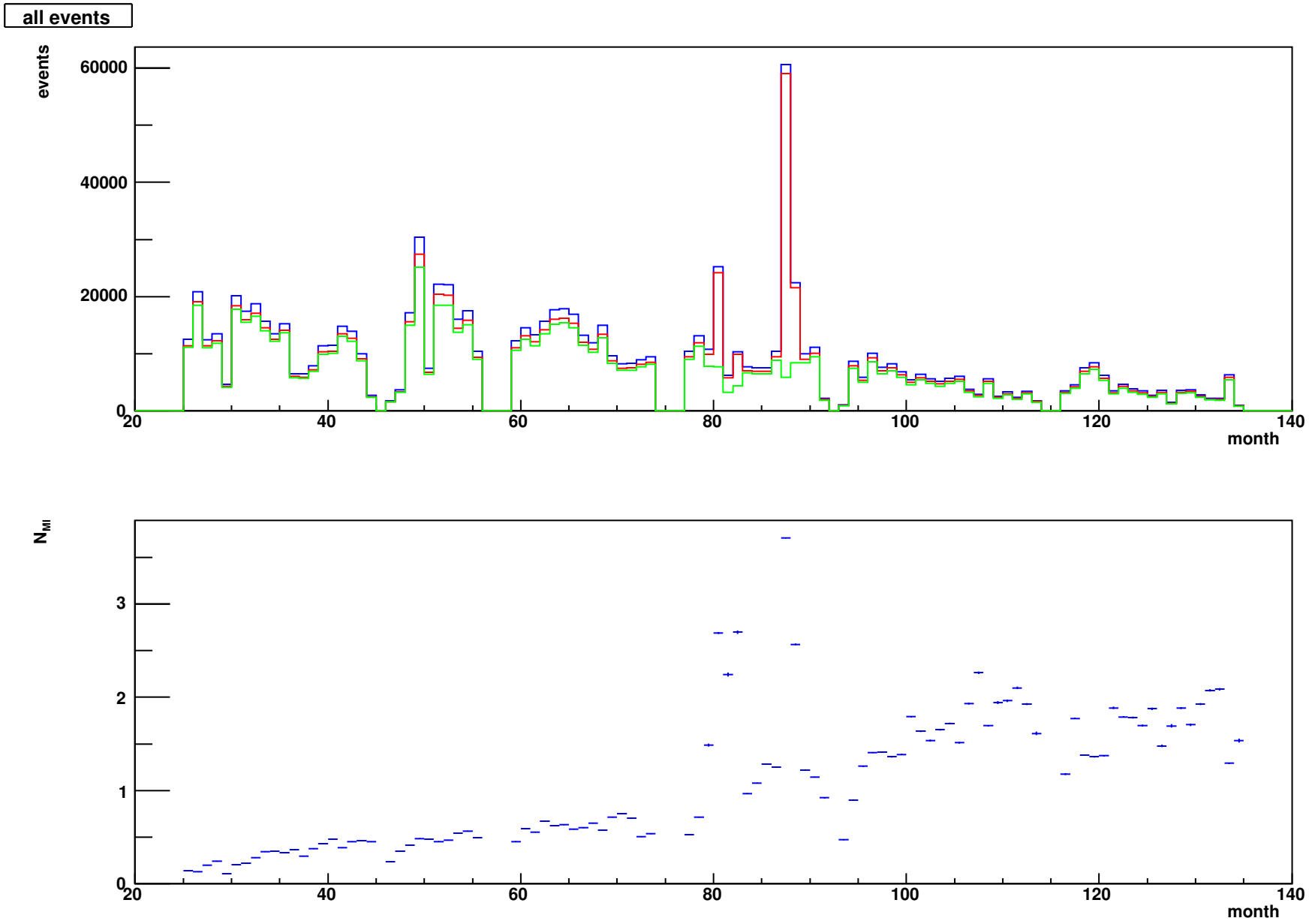

all events
Entries 988415
Mean 2.3203e+05
RMS 9916.3
Underflow 5.7688e+05
Overflow 1.8228e+05
Integral 2.2926e+05
events
6000
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

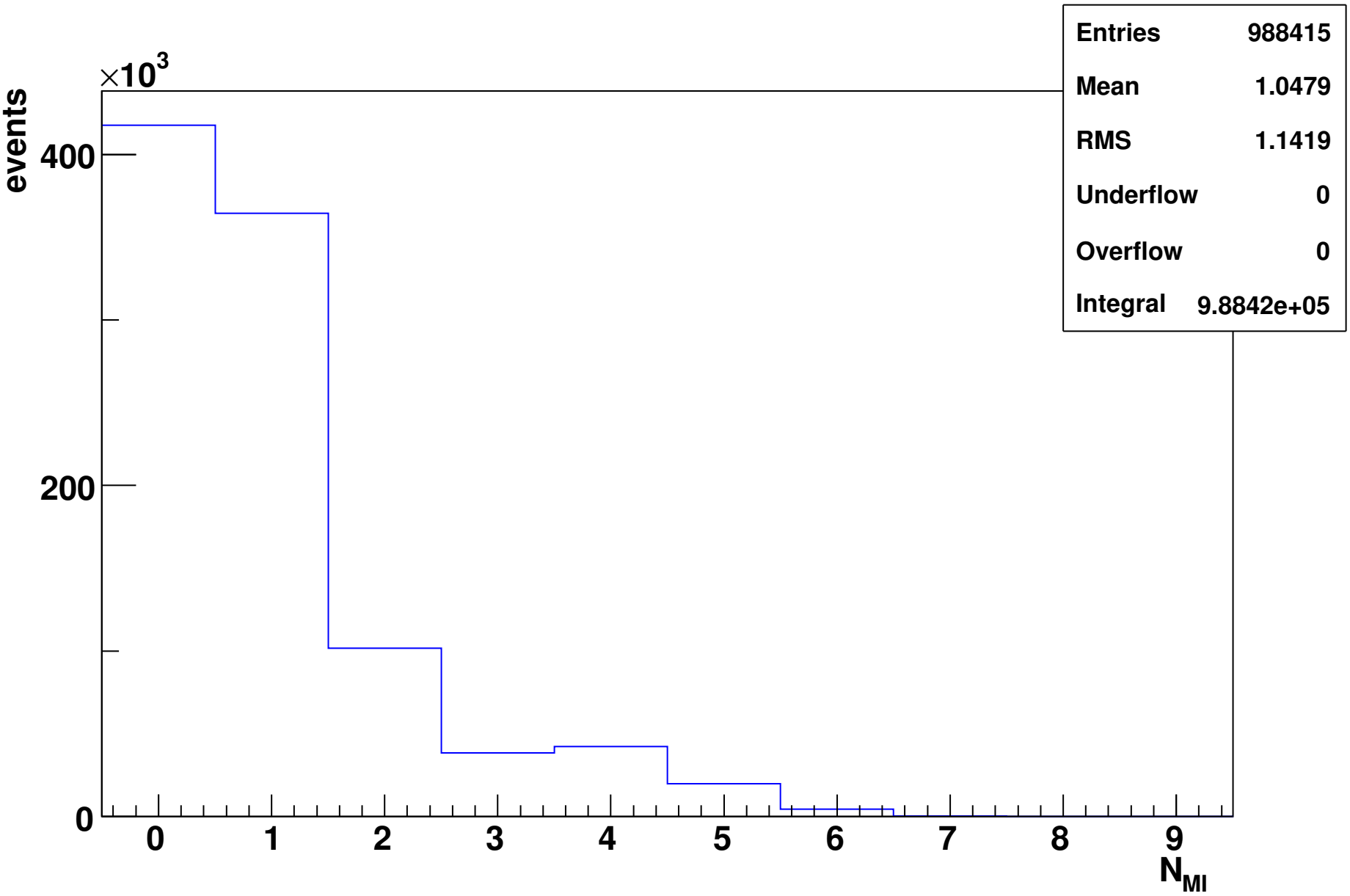

at least one track
Entries 906751
Mean 2.3216e+05
RMS 9847.1
Underflow 5.2465e+05
Overflow 1.6699e+05
Integral 2.1511e+05
events
6000
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

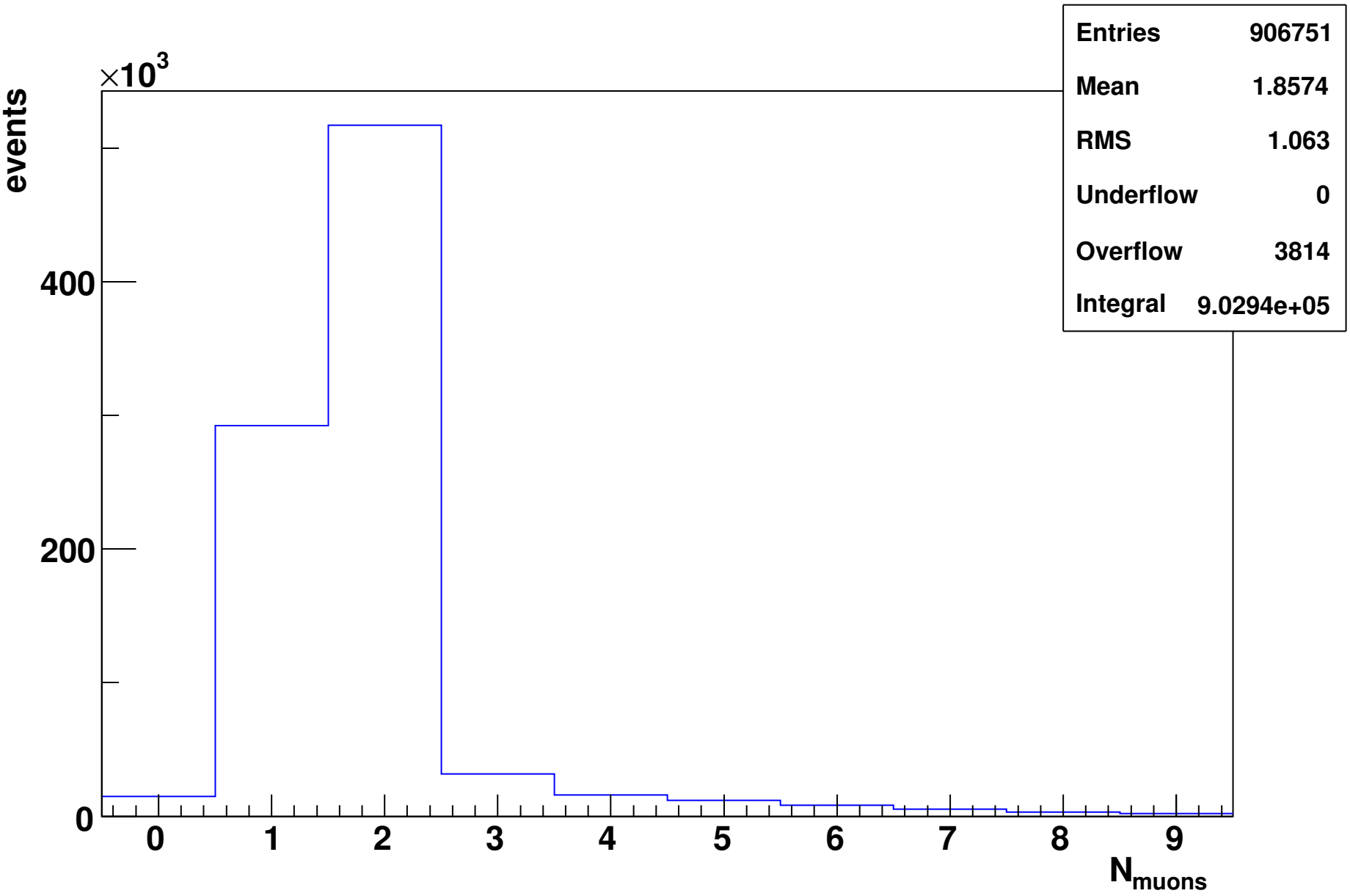

one or two tracks, at least one muon
Entries 772352
Mean 2.2974e+05
RMS 10862
Underflow 4.9986e+05
Overflow 1.5512e+05
Integral 1.1738e+05
events
2000
1000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

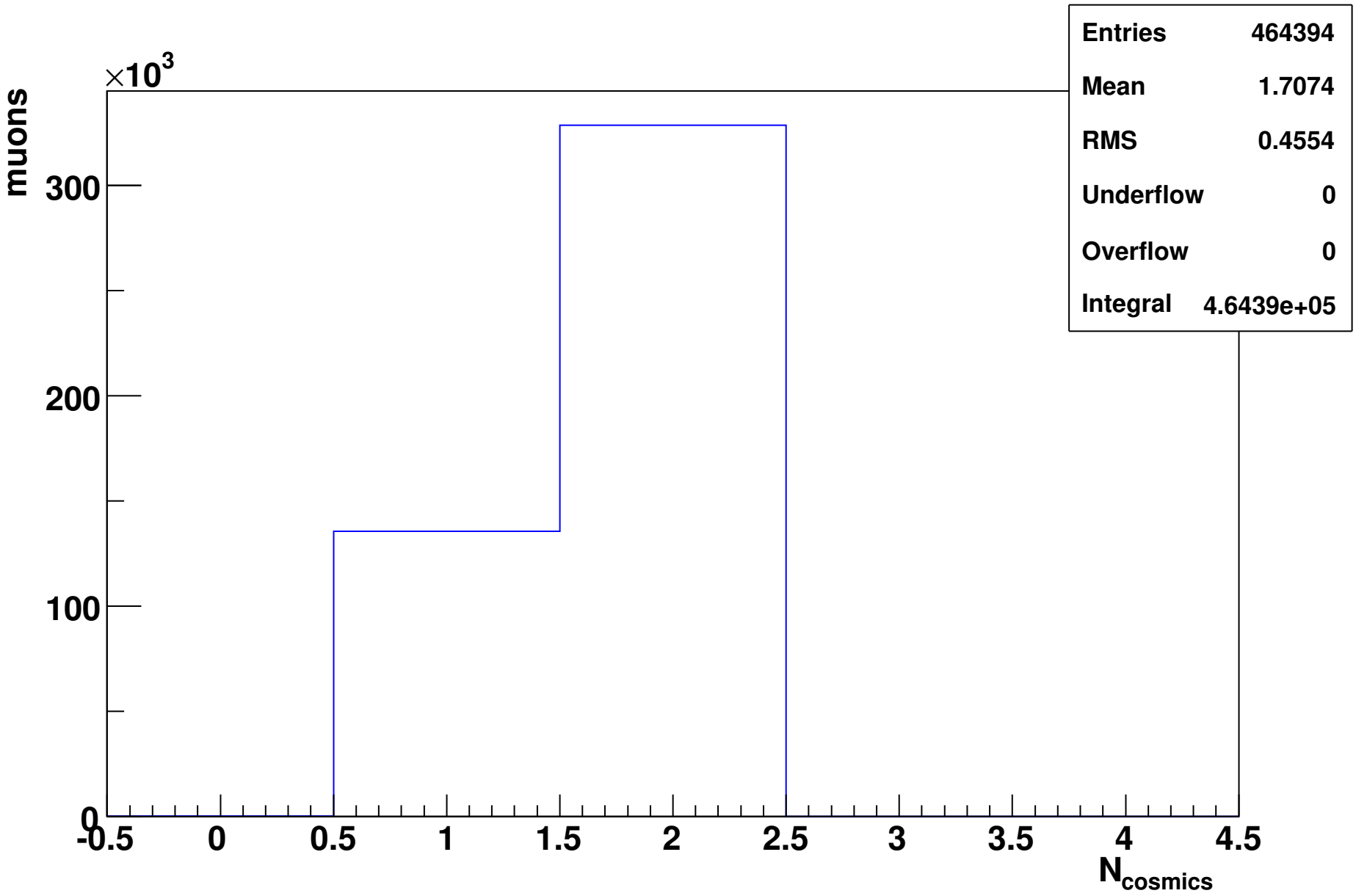

one or two tracks, at least one muon, weighted
Entries 772352
Mean 84.53
RMS 30.566
Underflow 0
Overflow 0
Integral 2.1824e+06
weighted cosmics
40000
20000
0
20
40
60
80
100
120
140
month

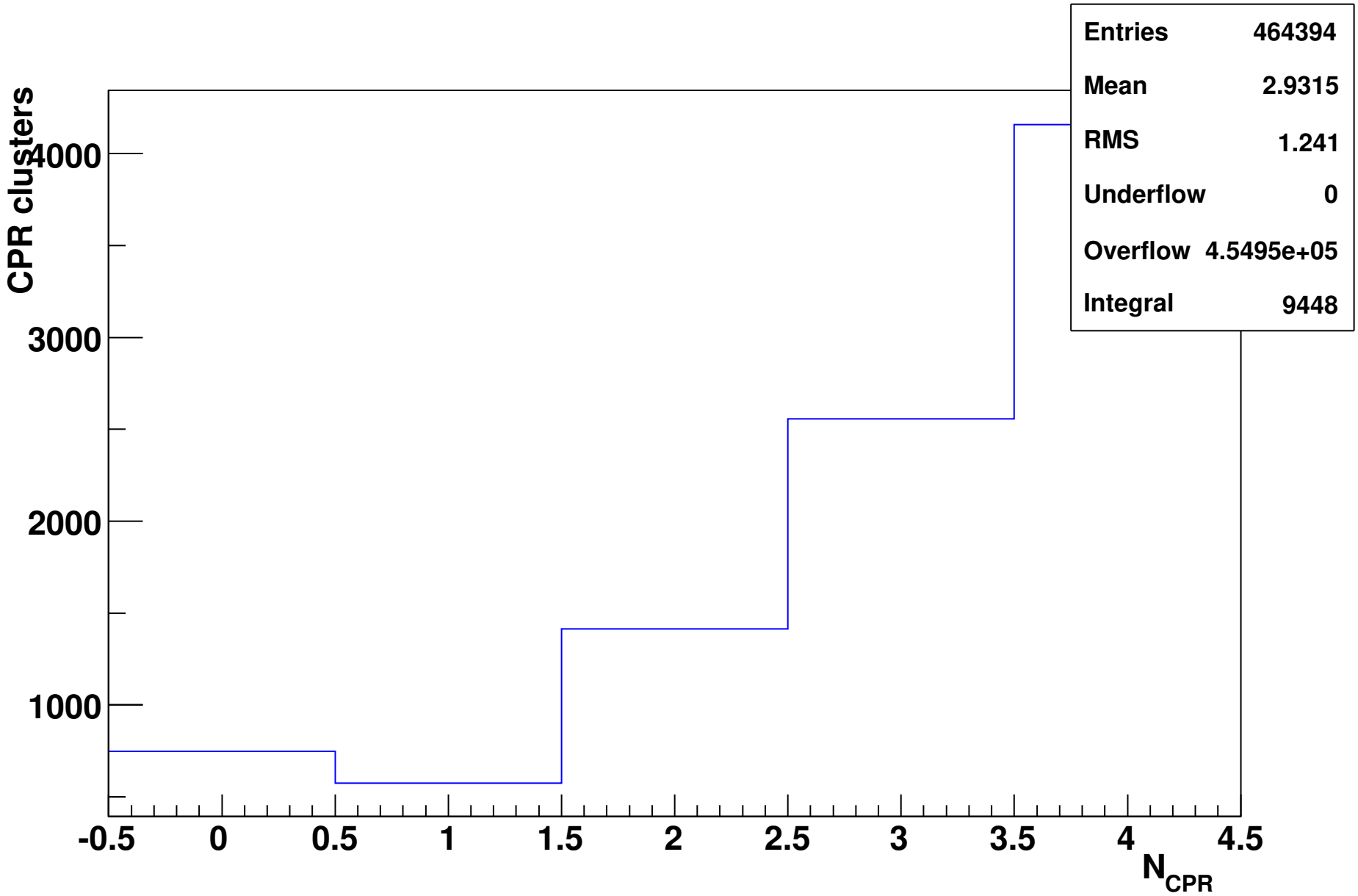

all events
Entries 772352
Mean 2.2974e+05
RMS 10862
Underflow 4.9986e+05
Overflow 1.5512e+05
Integral 1.1738e+05
events
6000
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

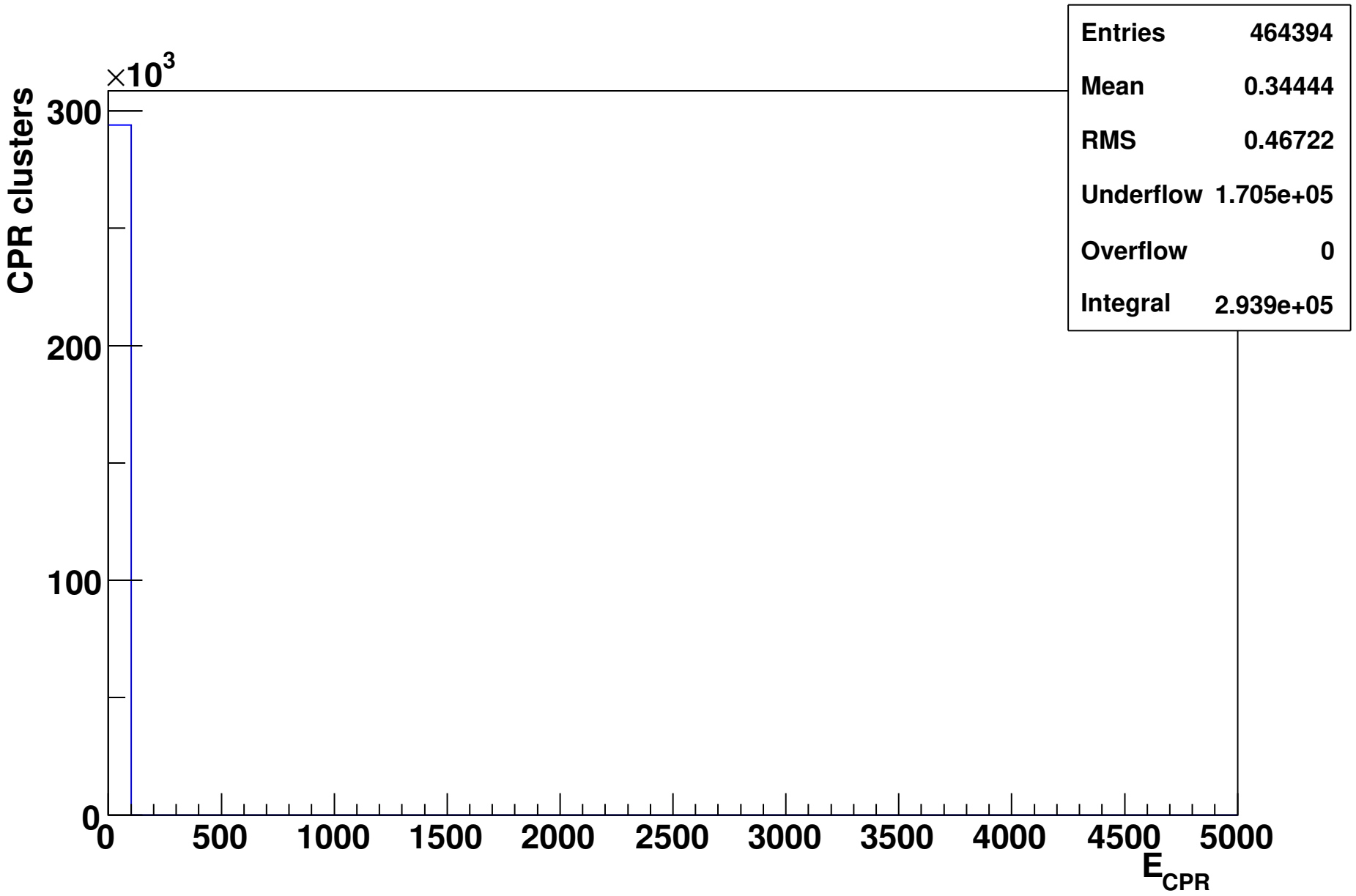

all events
events
60000
40000
20000
0
20
40
60
80
100
120
140
month
N_{MI}
3
2
1
0
20
40
60
80
100
120
140
month

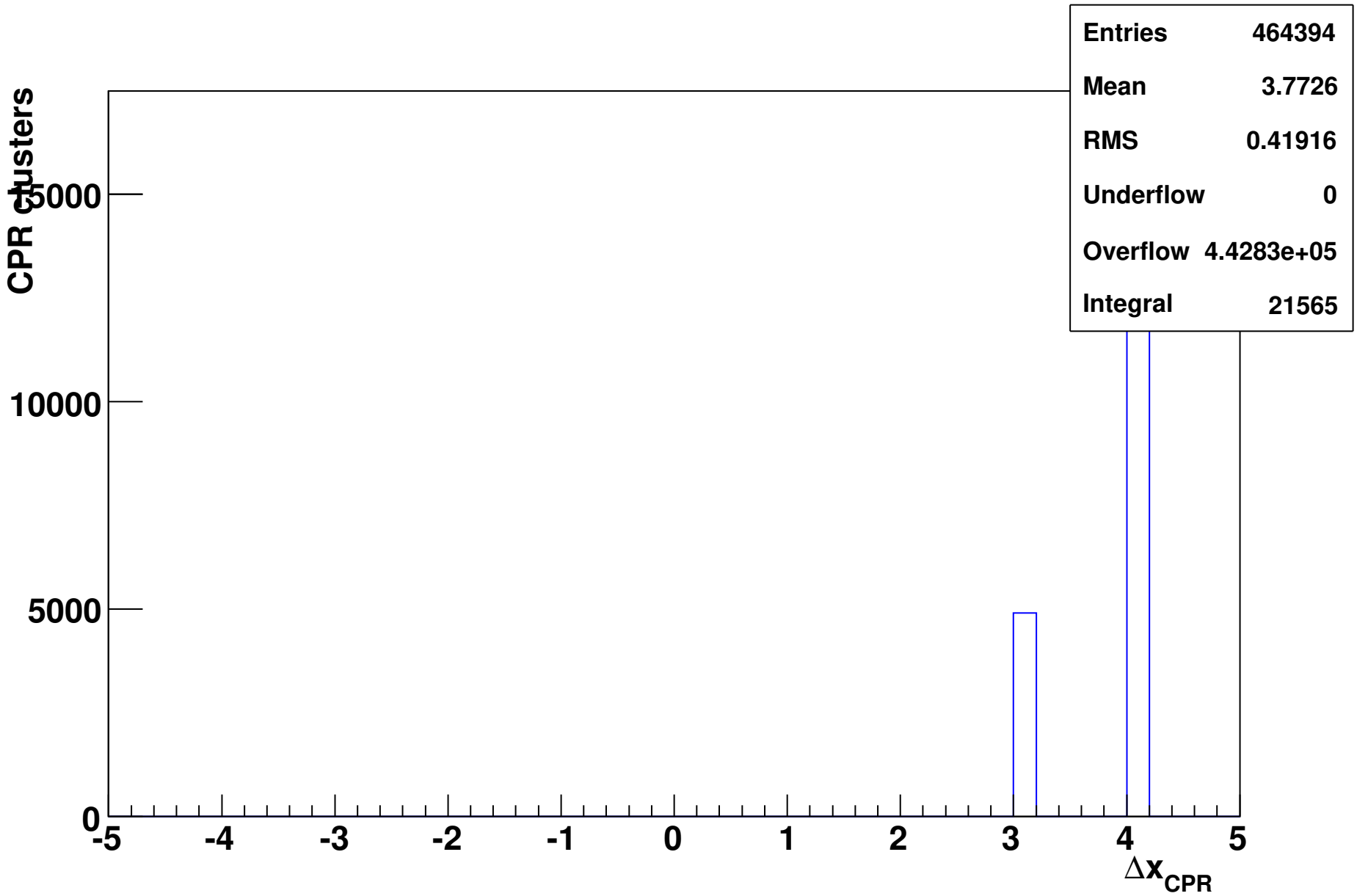

Entries 988415
Mean 1.0479
RMS 1.1419
Underflow 0
Overflow 0
Integral 9.8842e+05
×10^3
events
400
200
0
0
1
2
3
4
5
6
7
8
9
N_MI

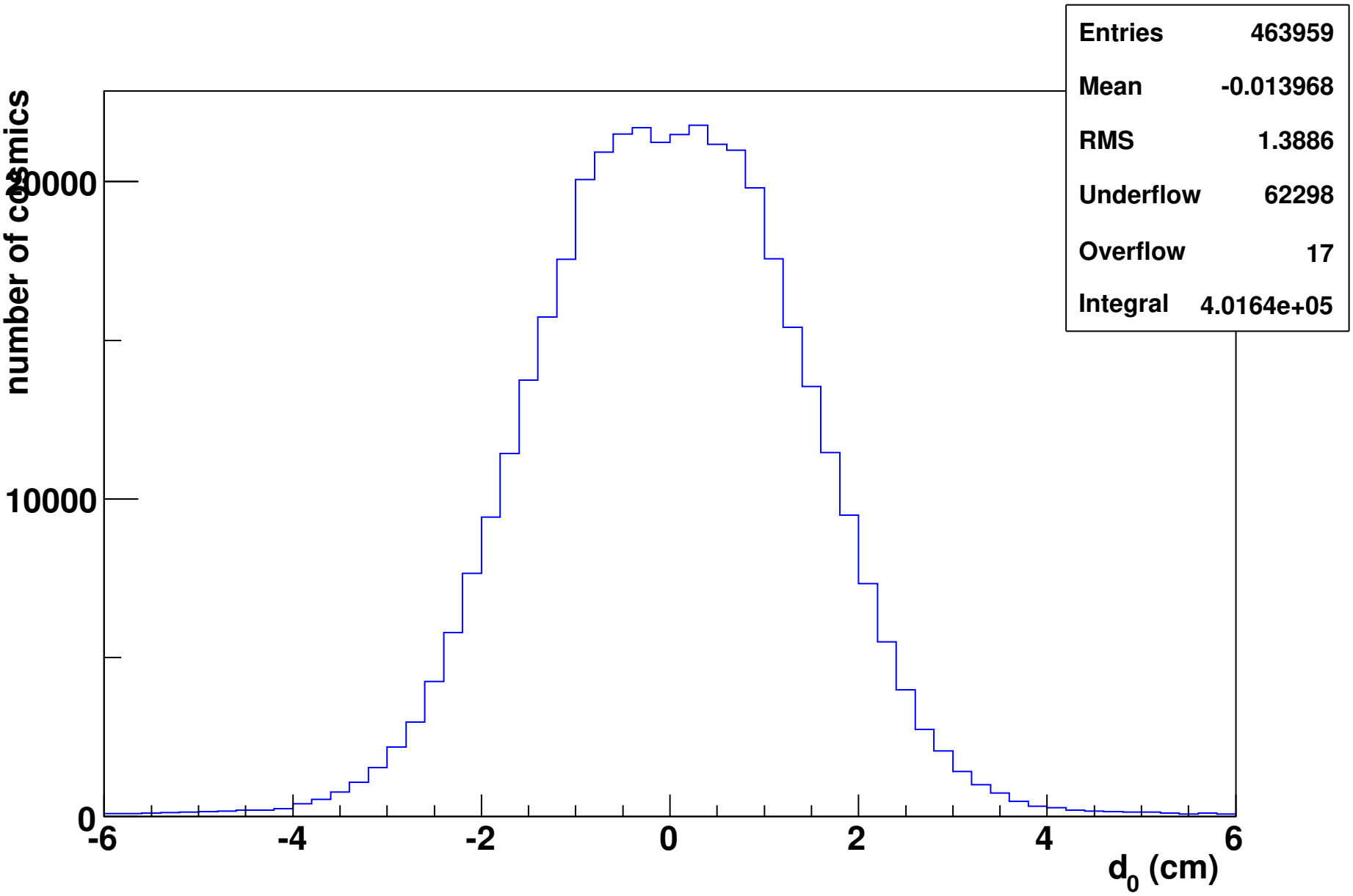

Entries 906751
Mean 1.8574
RMS 1.063
Underflow 0
Overflow 3814
Integral 9.0294e+05
×10^3
events
400
200
0
0 1 2 3 4 5 6 7 8 9
N_muons

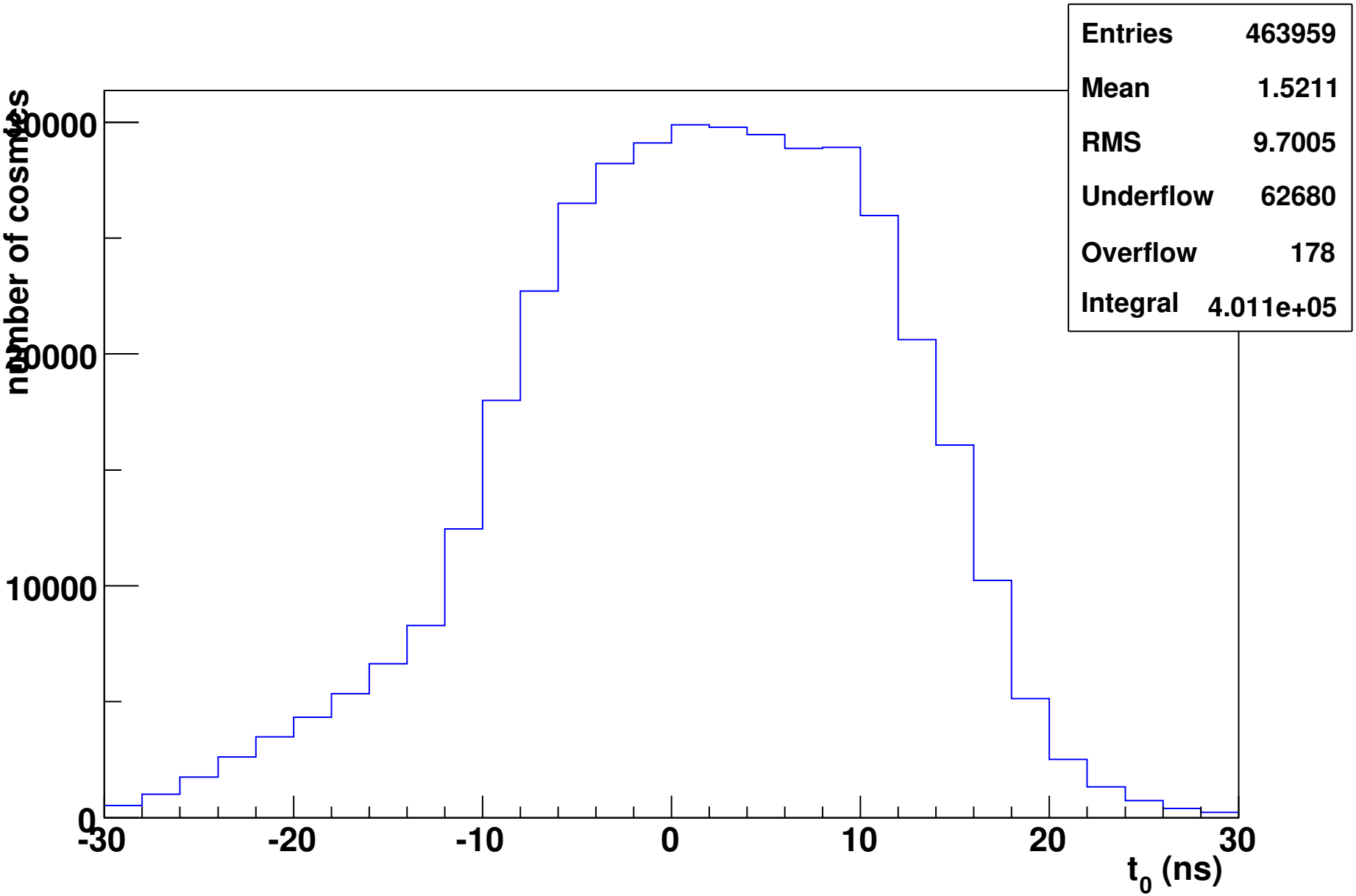

Entries 464394
Mean 1.7074
RMS 0.4554
Underflow 0
Overflow 0
Integral 4.6439e+05
×10^3
muons
300
200
100
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_cosmics

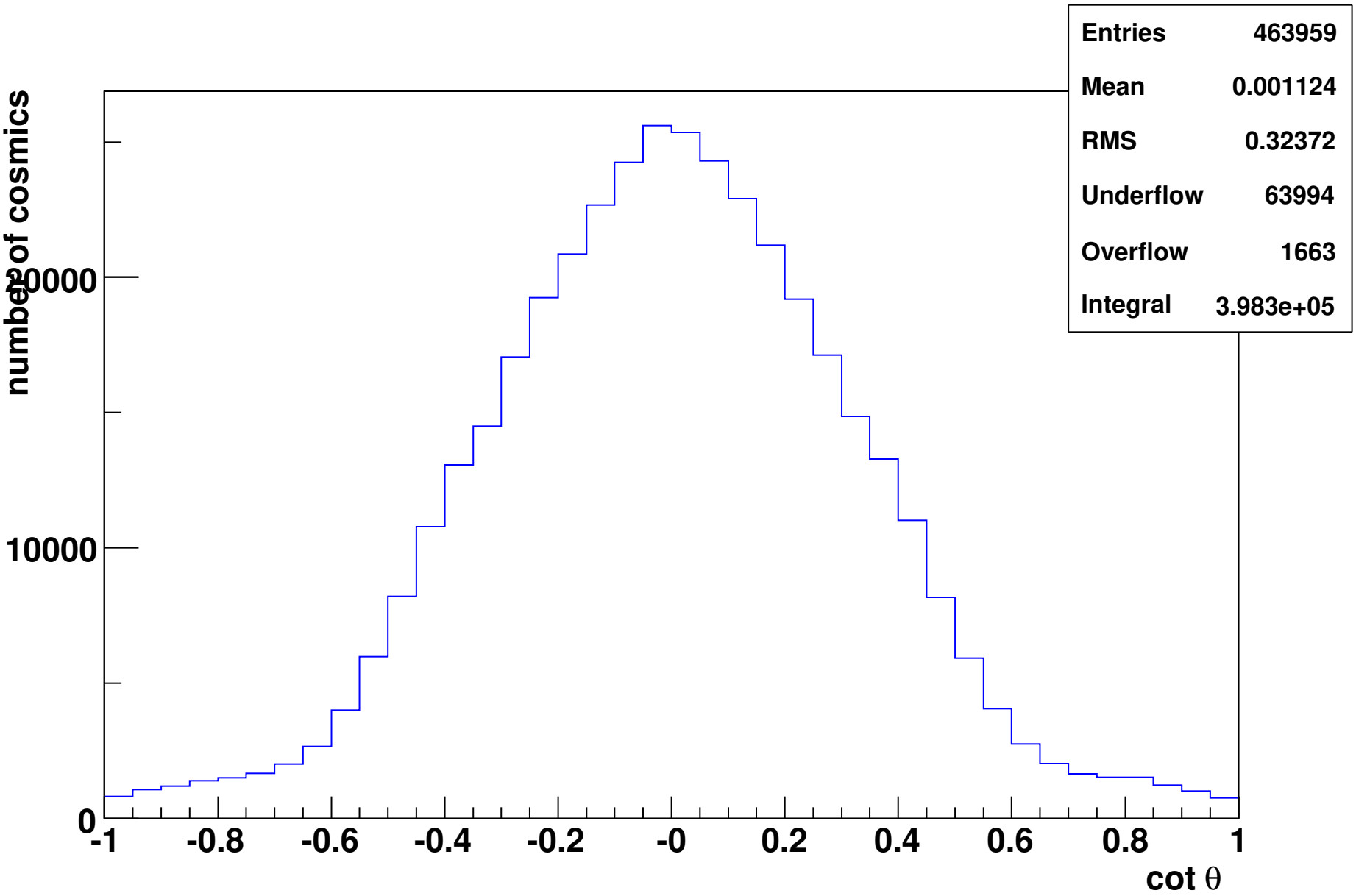

Entries 464394
Mean 2.9315
RMS 1.241
Underflow 0
Overflow 4.5495e+05
Integral 9448
CPR clusters
4000
3000
2000
1000
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_CPR

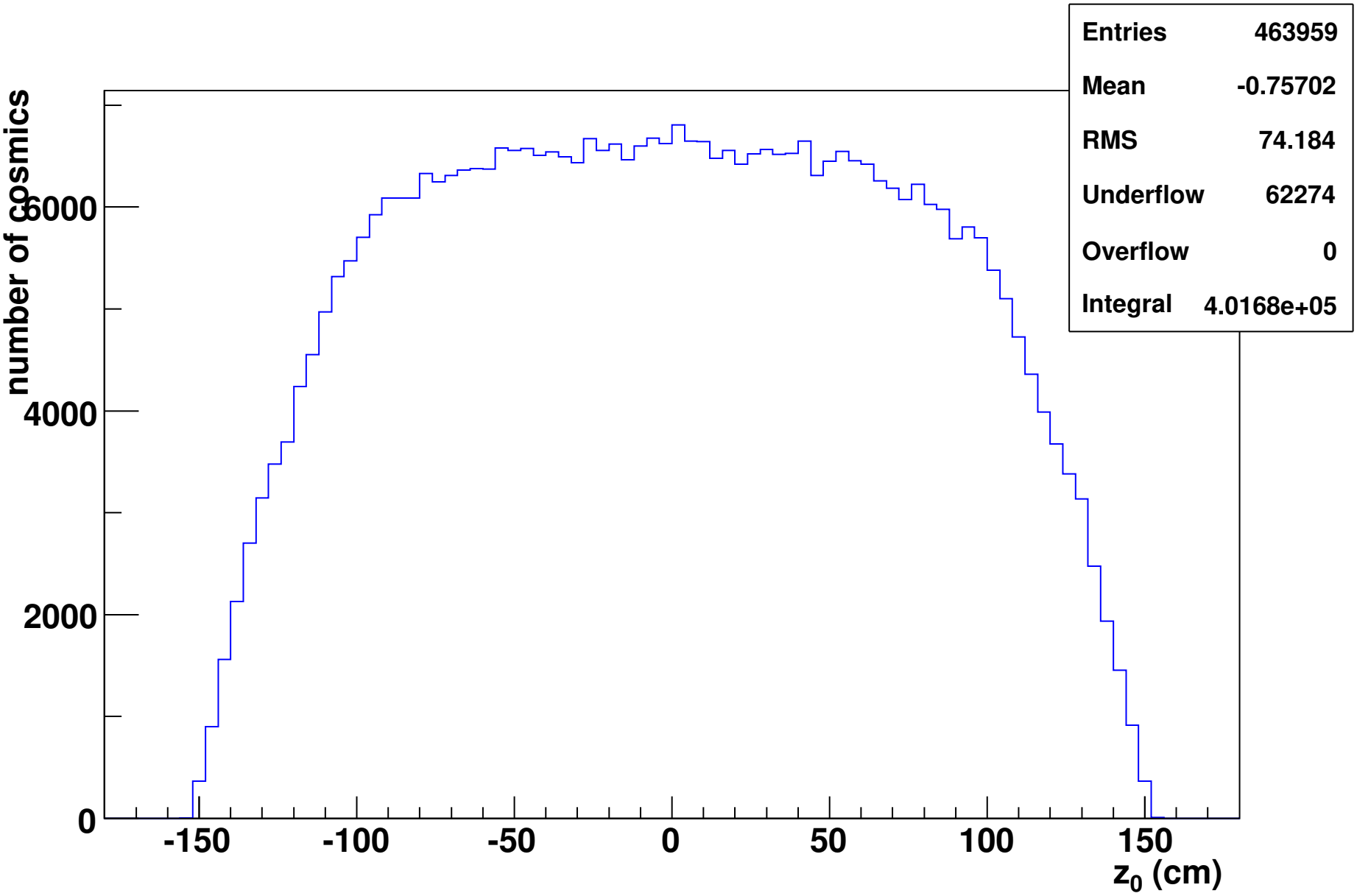

Entries 464394
Mean 0.34444
RMS 0.46722
Underflow 1.705e+05
Overflow 0
Integral 2.939e+05
×10^3
CPR clusters
300
200
100
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
E_CPR

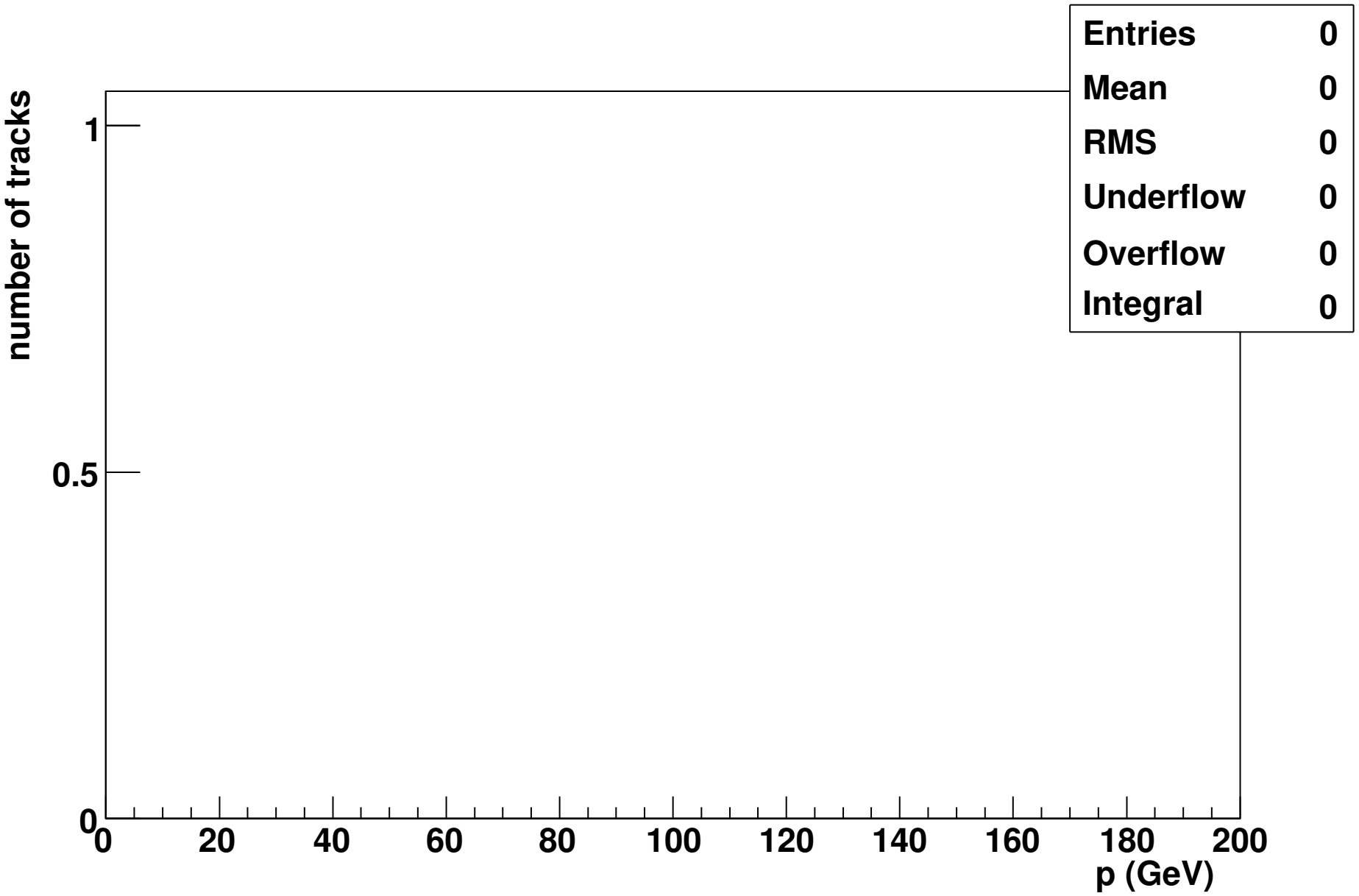

Entries 464394
Mean 3.7726
RMS 0.41916
Underflow 0
Overflow 4.4283e+05
Integral 21565
CPR clusters
10000
5000
0
-5
-4
-3
-2
-1
0
1
2
3
4
5
Δx_{CPR}

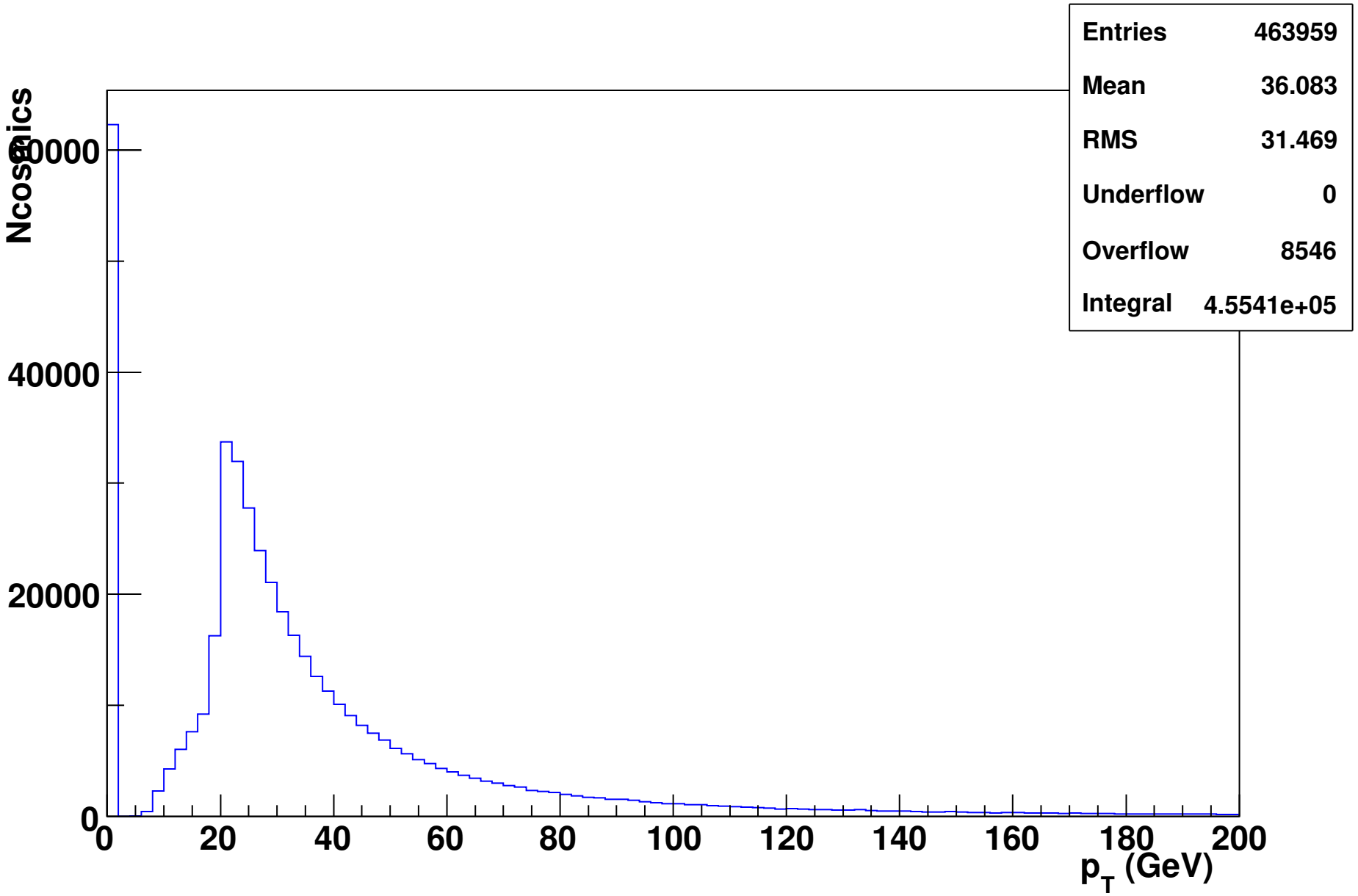

Entries 463959
Mean -0.013968
RMS 1.3886
Underflow 62298
Overflow 17
Integral 4.0164e+05
number of cosmics
20000
10000
0
-6
-4
-2
0
2
4
6
d_0 (cm)

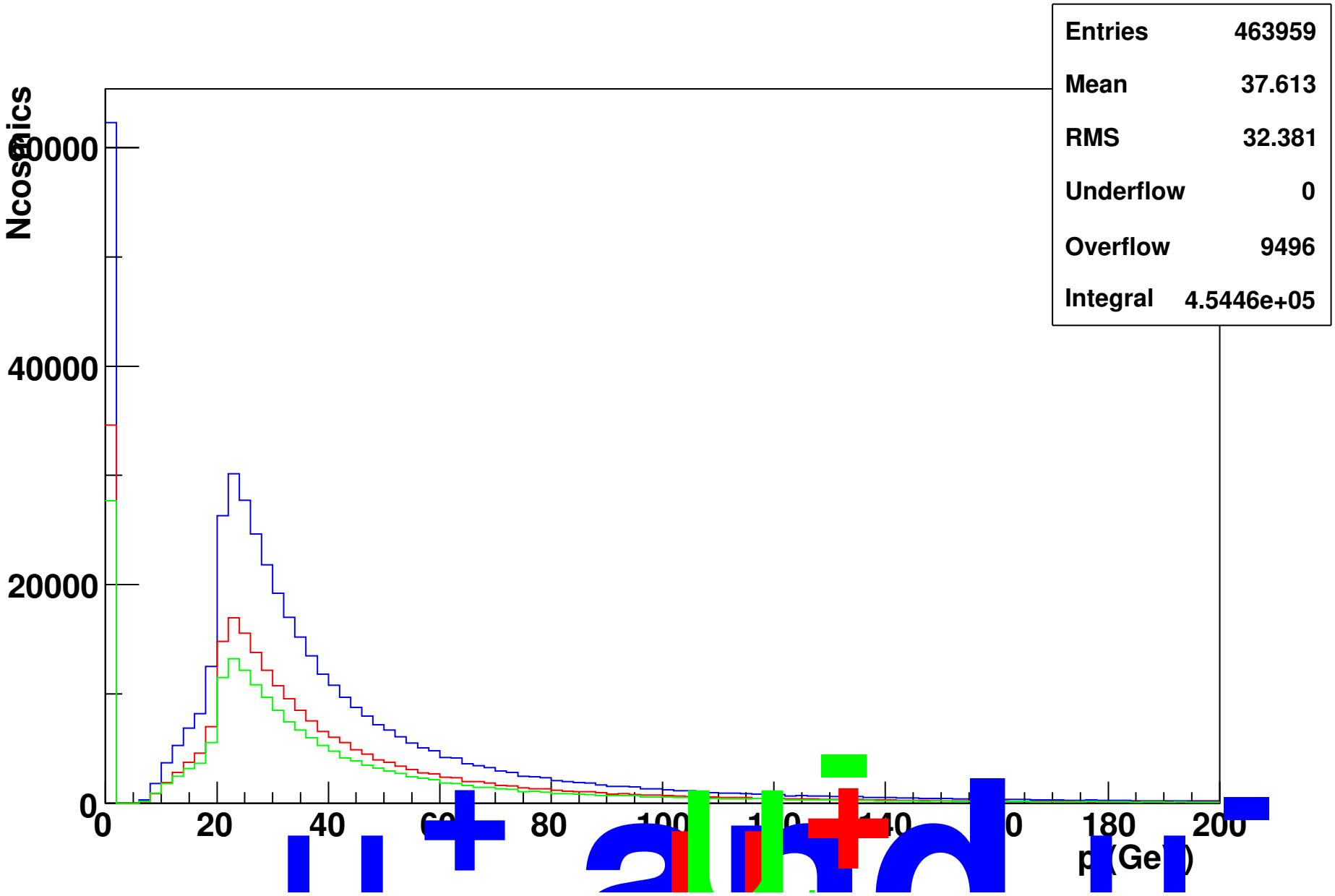

Entries 463959
Mean 1.5211
RMS 9.7005
Underflow 62680
Overflow 178
Integral 4.011e+05
number of cosmics
20000
10000
0
-30
-20
-10
0
10
20
30
t0 (ns)

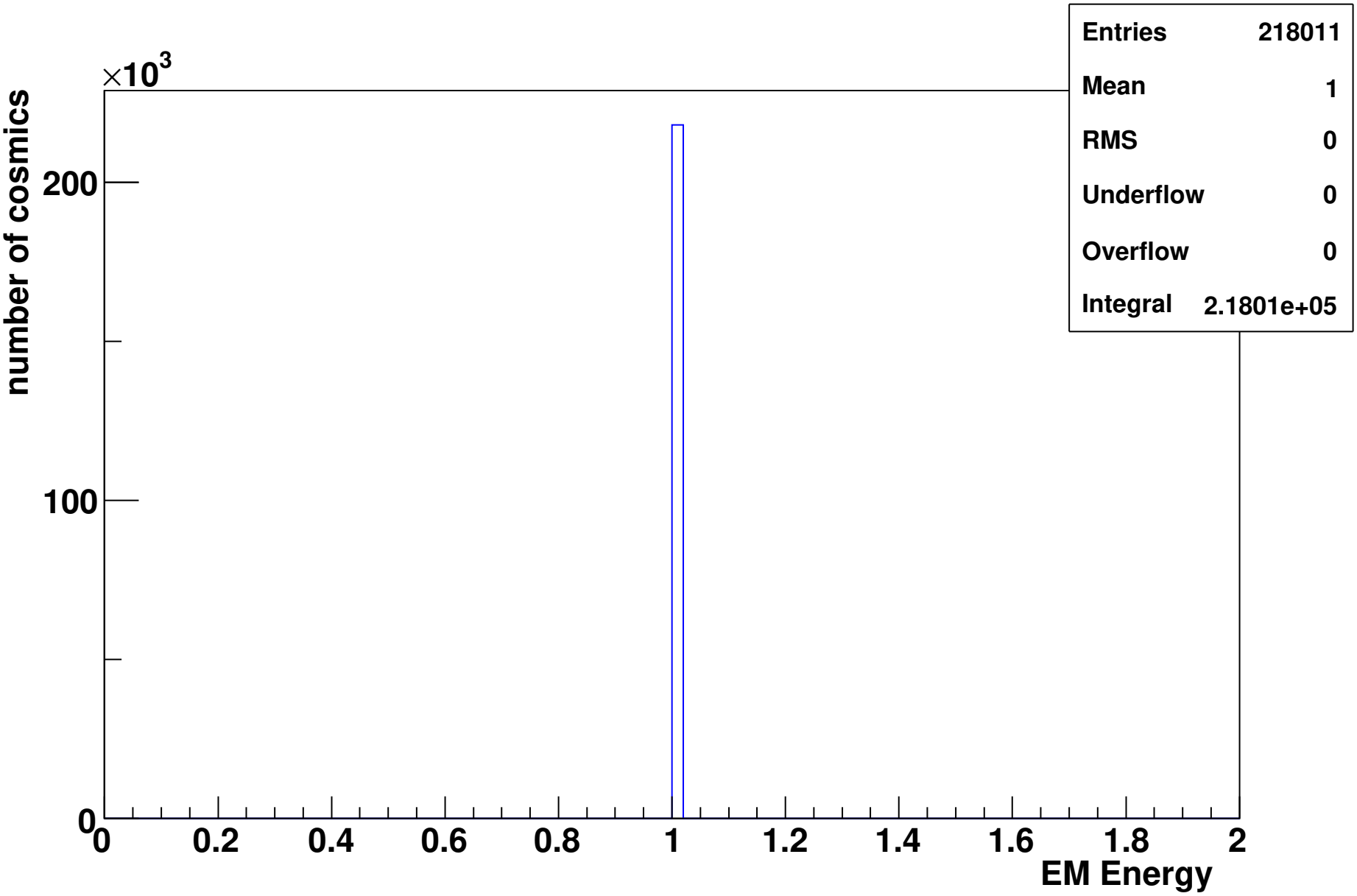

Entries 463959
Mean 0.001124
RMS 0.32372
Underflow 63994
Overflow 1663
Integral 3.983e+05
number of cosmics
20000
10000
0
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
cot θ

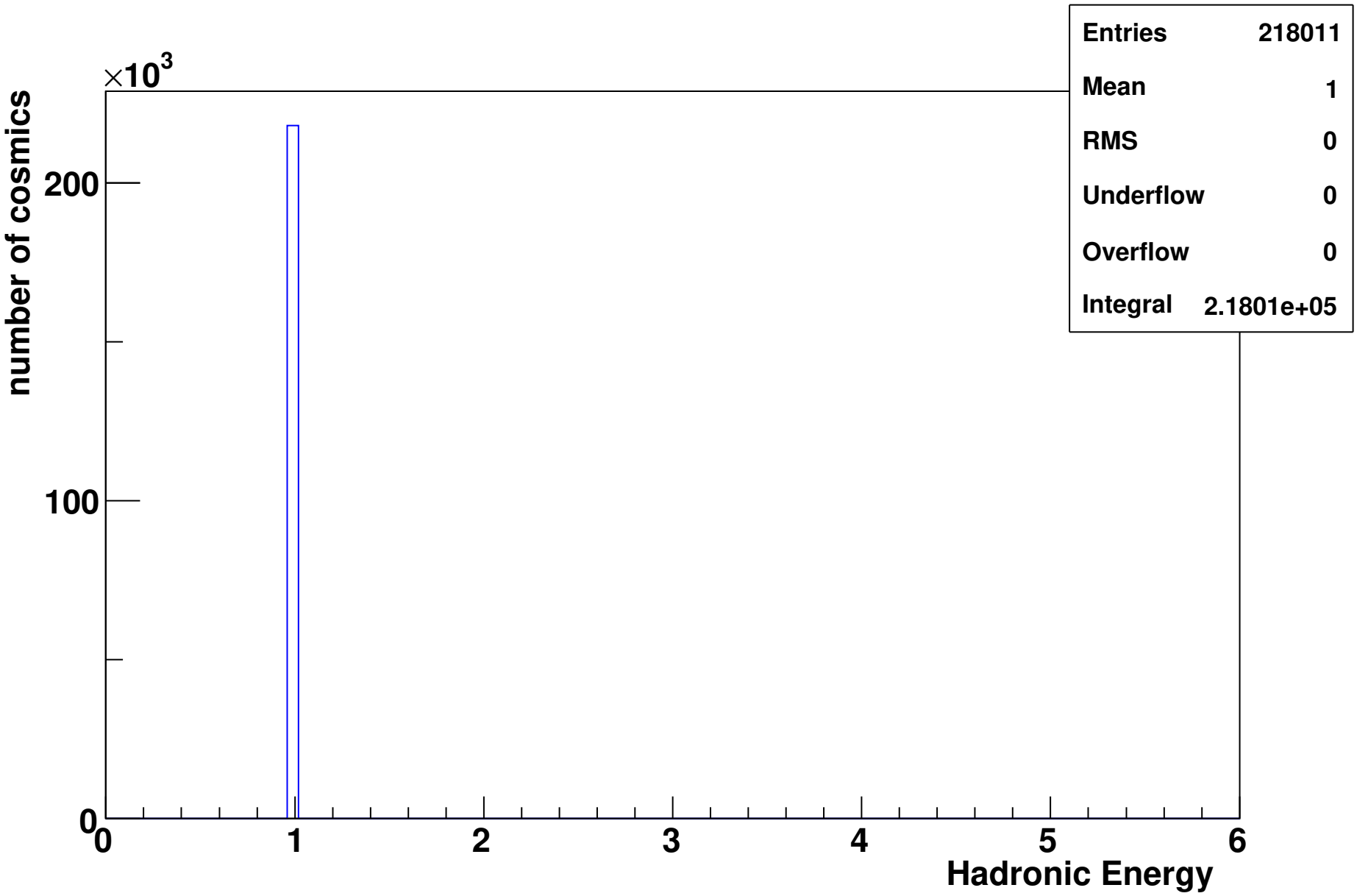

Entries 463959
Mean -0.75702
RMS 74.184
Underflow 62274
Overflow 0
Integral 4.0168e+05
number of cosmics
6000
4000
2000
0
-150
-100
-50
0
50
100
150
z_0 (cm)

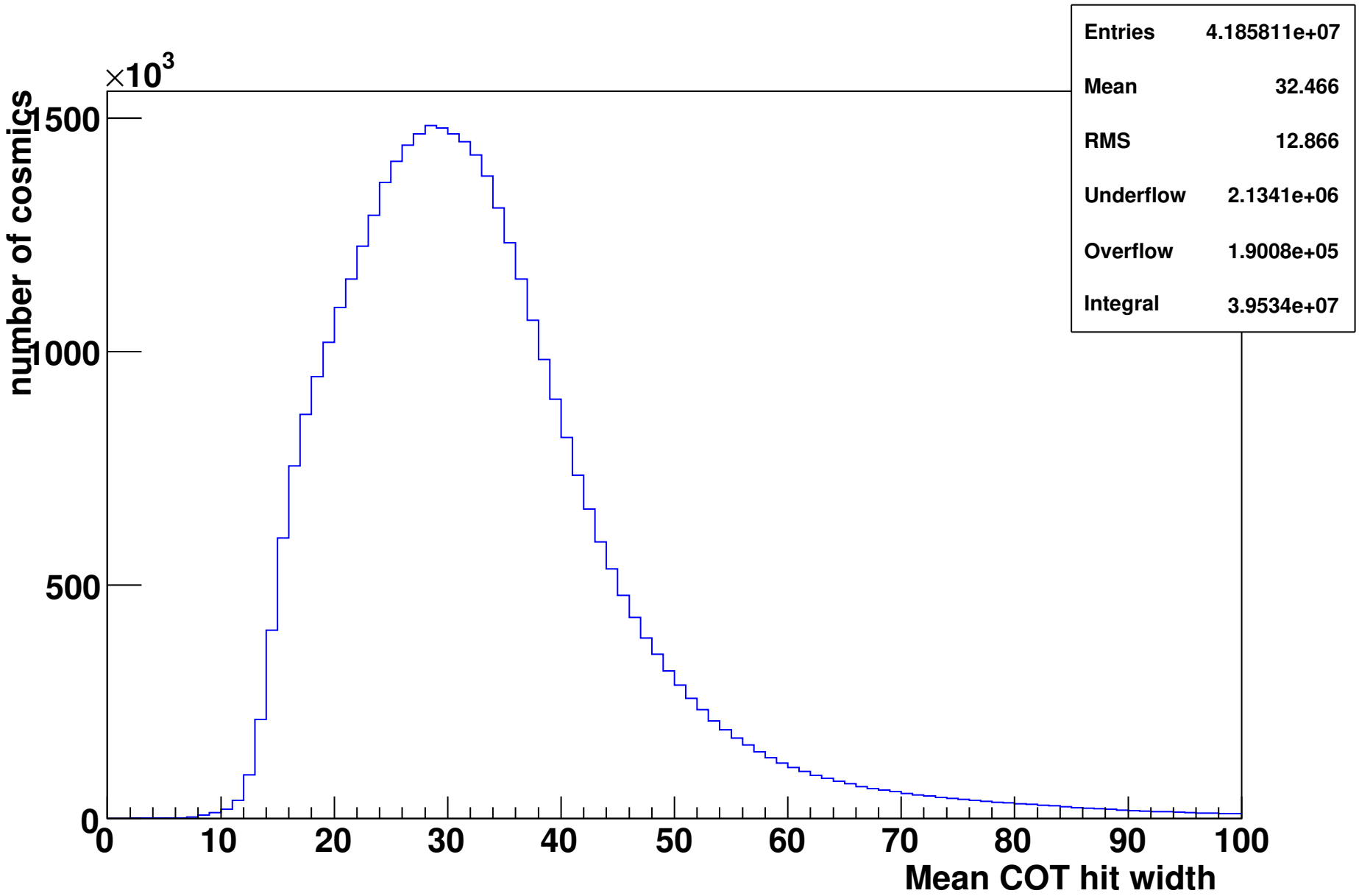

Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
Integral 0
number of tracks
1
0.5
0
0
20
40
60
80
100
120
140
160
180
200
p (GeV)

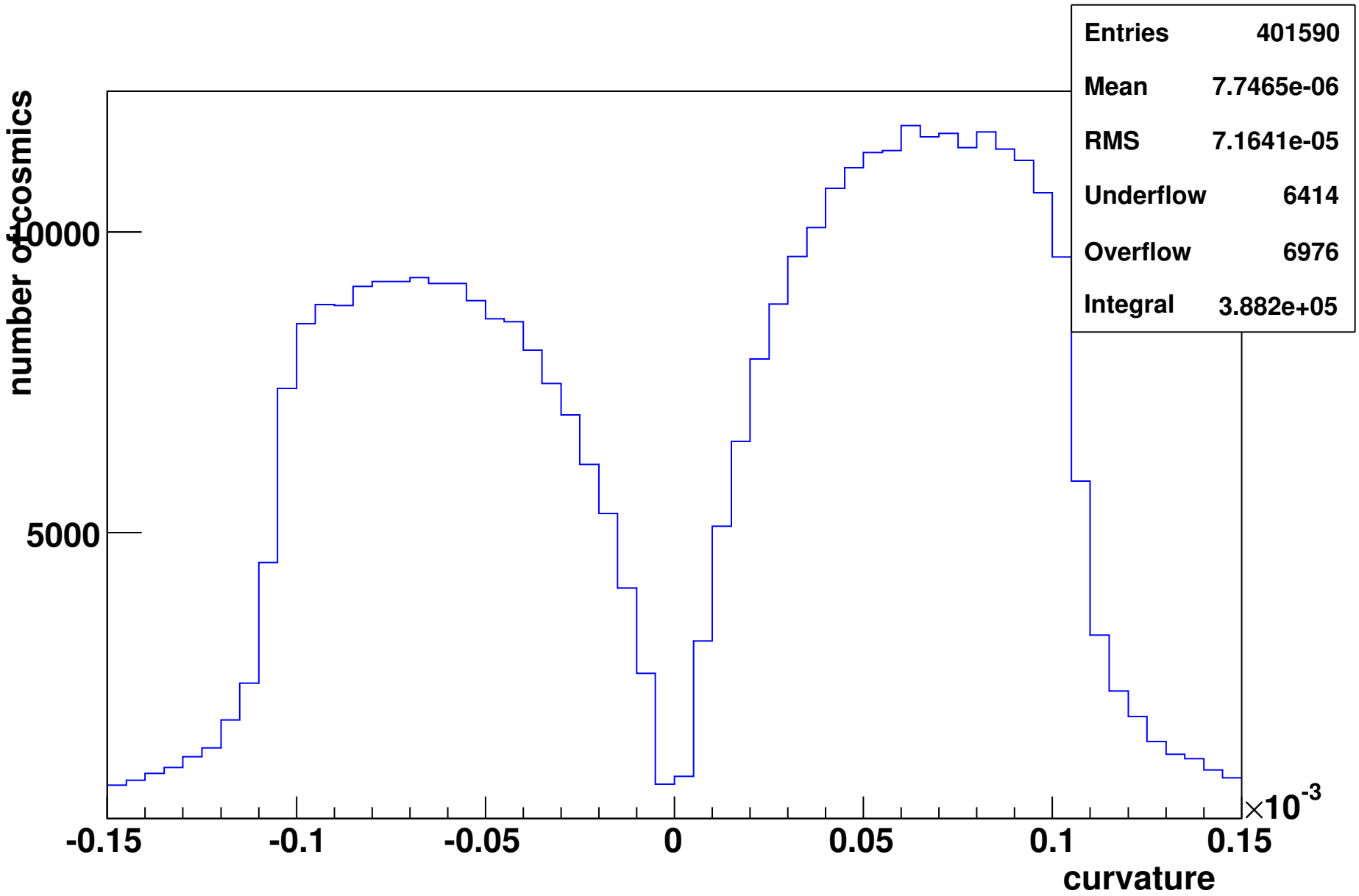

Entries 463959
Mean 36.083
RMS 31.469
Underflow 0
Overflow 8546
Integral 4.5541e+05
Ncosmics
60000
40000
20000
0
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV)

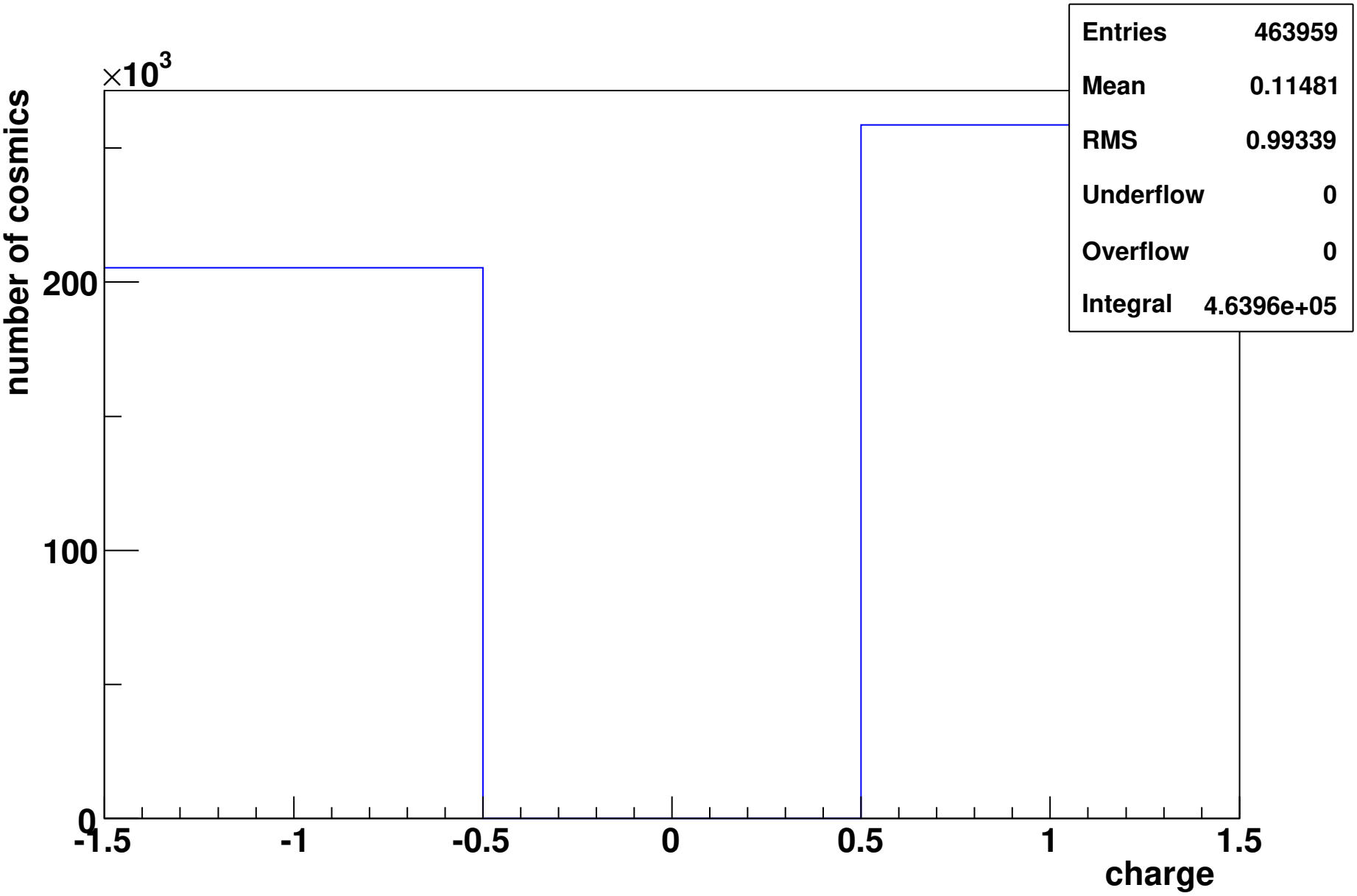

Entries 463959
Mean 37.613
RMS 32.381
Underflow 0
Overflow 9496
Integral 4.5446e+05
Ncosmics
60000
40000
20000
0
0
20
40
80
180
200
p (GeV)

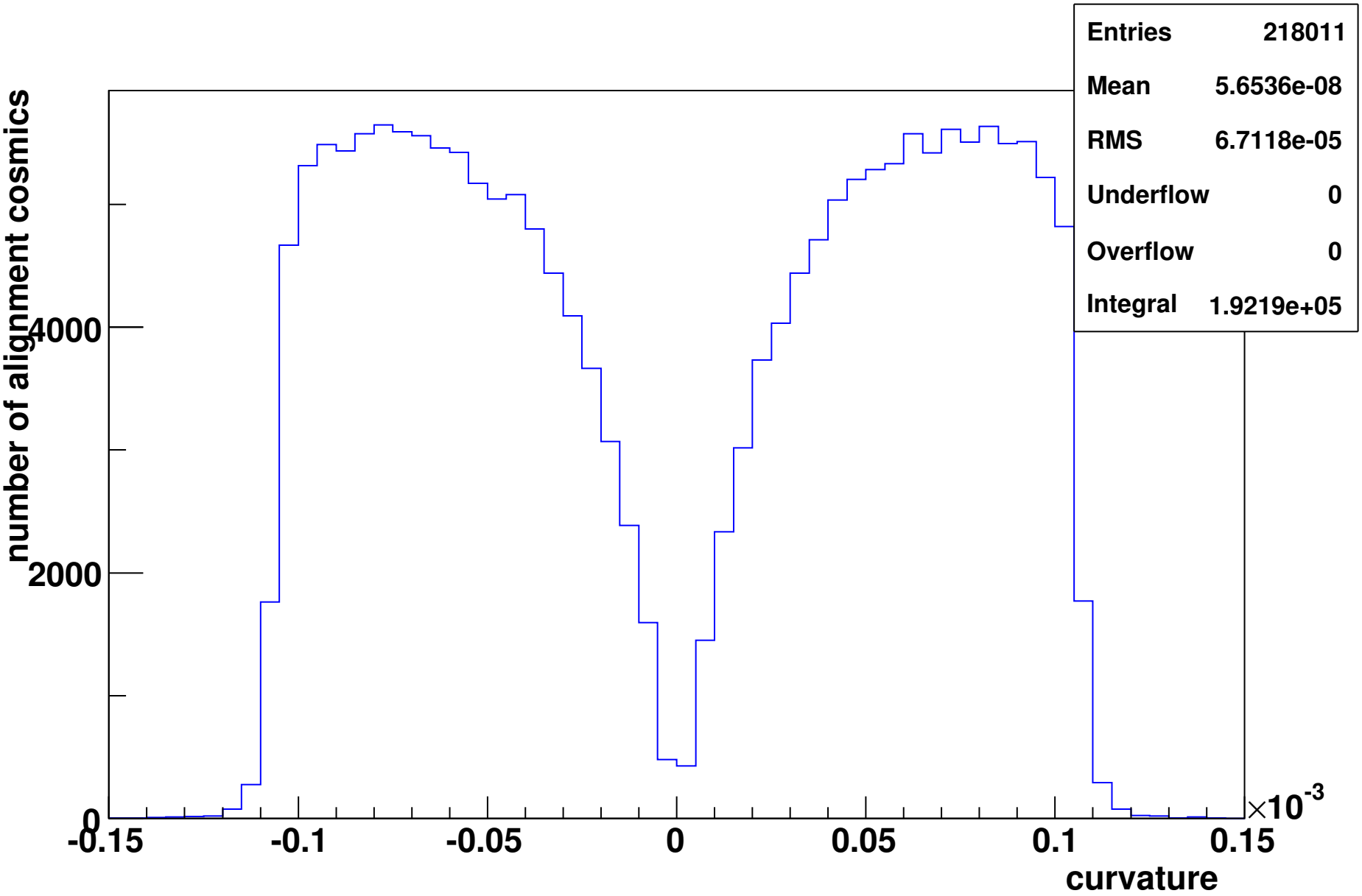

Entries 218011
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.1801e+05
×10^3
number of cosmics
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
EM Energy

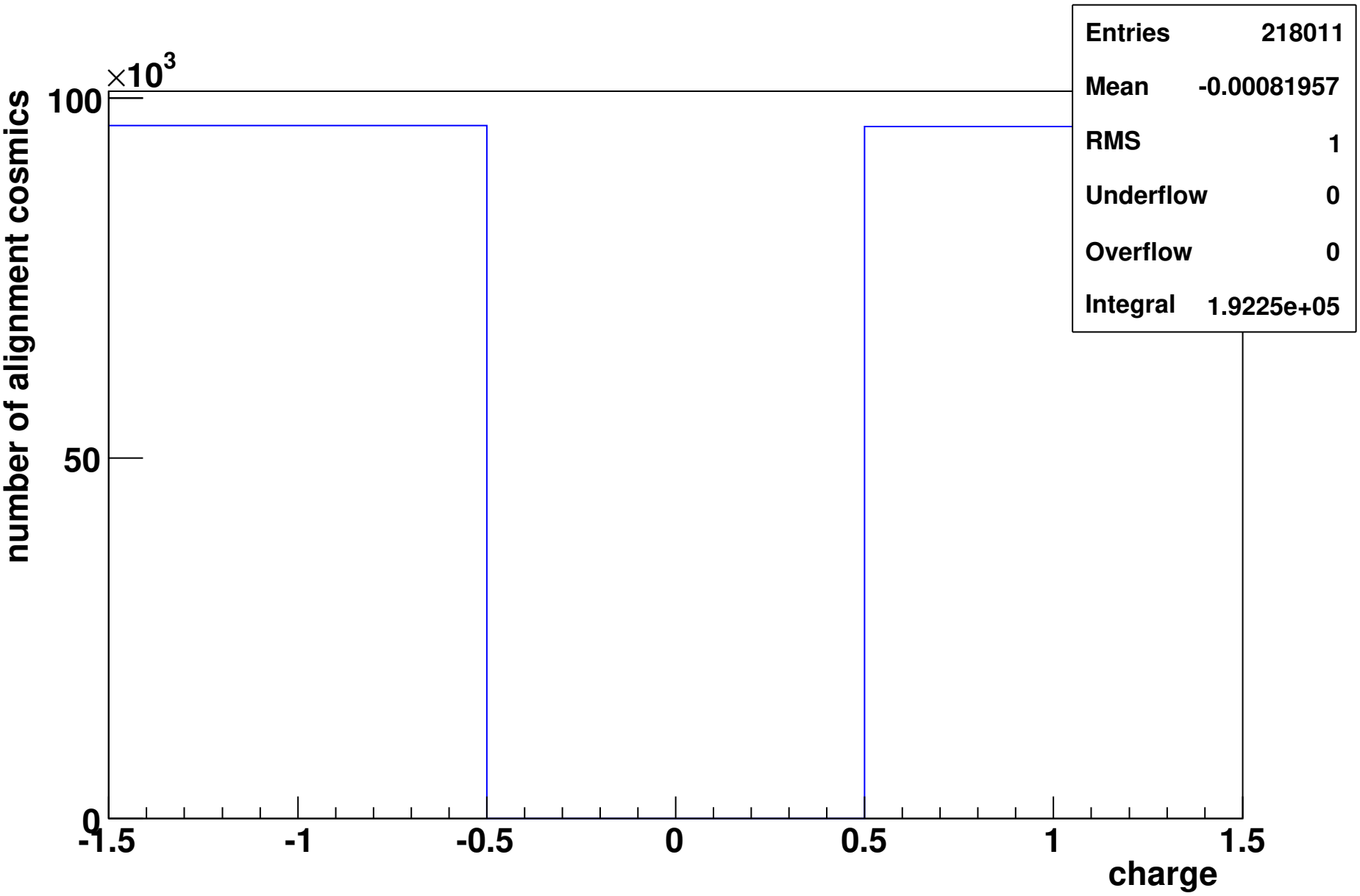

Entries 218011
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.1801e+05
×10^3
number of cosmics
200
100
0
0
1
2
3
4
5
6
Hadronic Energy

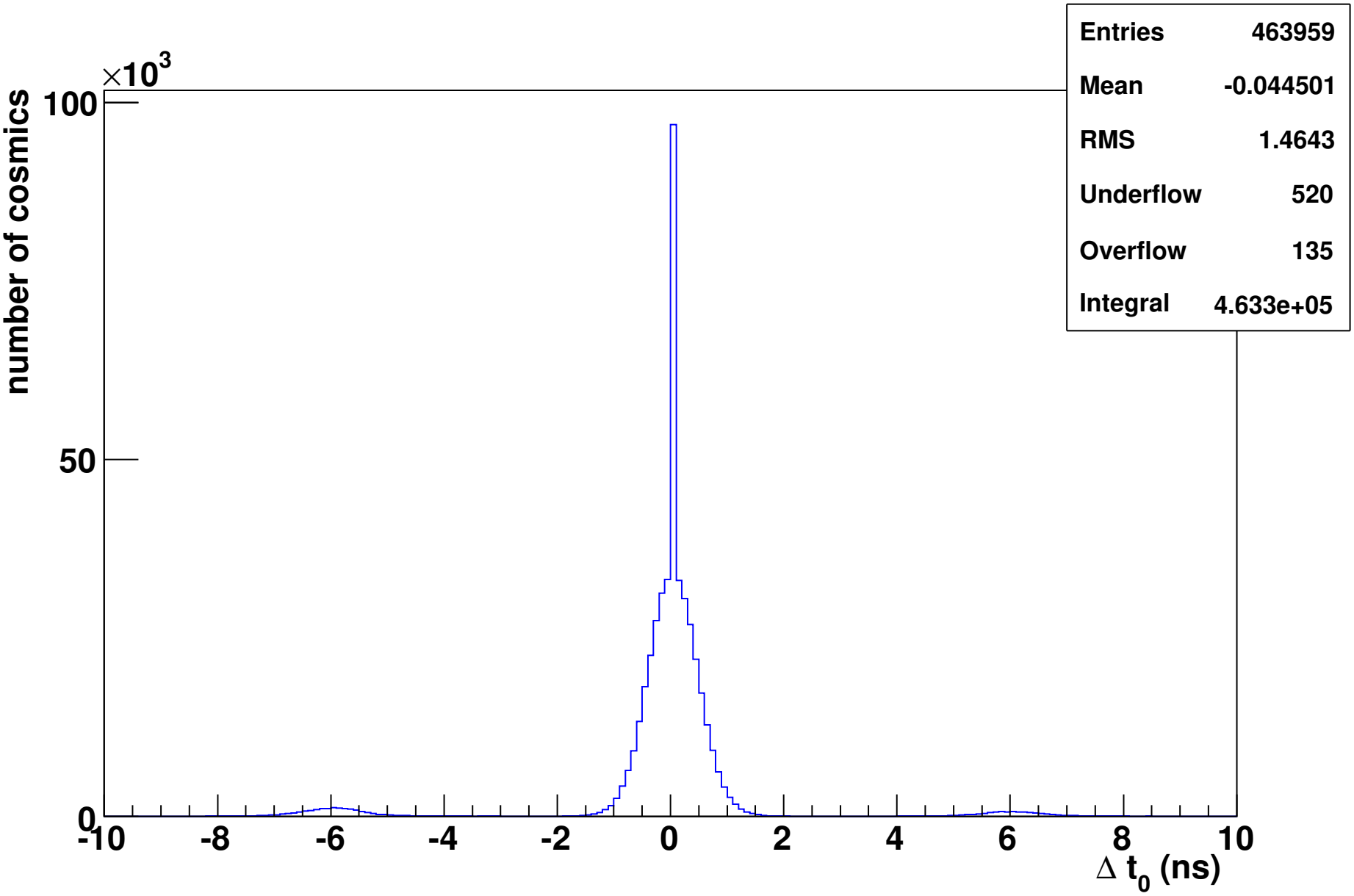

Entries 4.185811e+07
Mean 32.466
RMS 12.866
Underflow 2.1341e+06
Overflow 1.9008e+05
Integral 3.9534e+07
×10^3
number of cosmics
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
Mean COT hit width

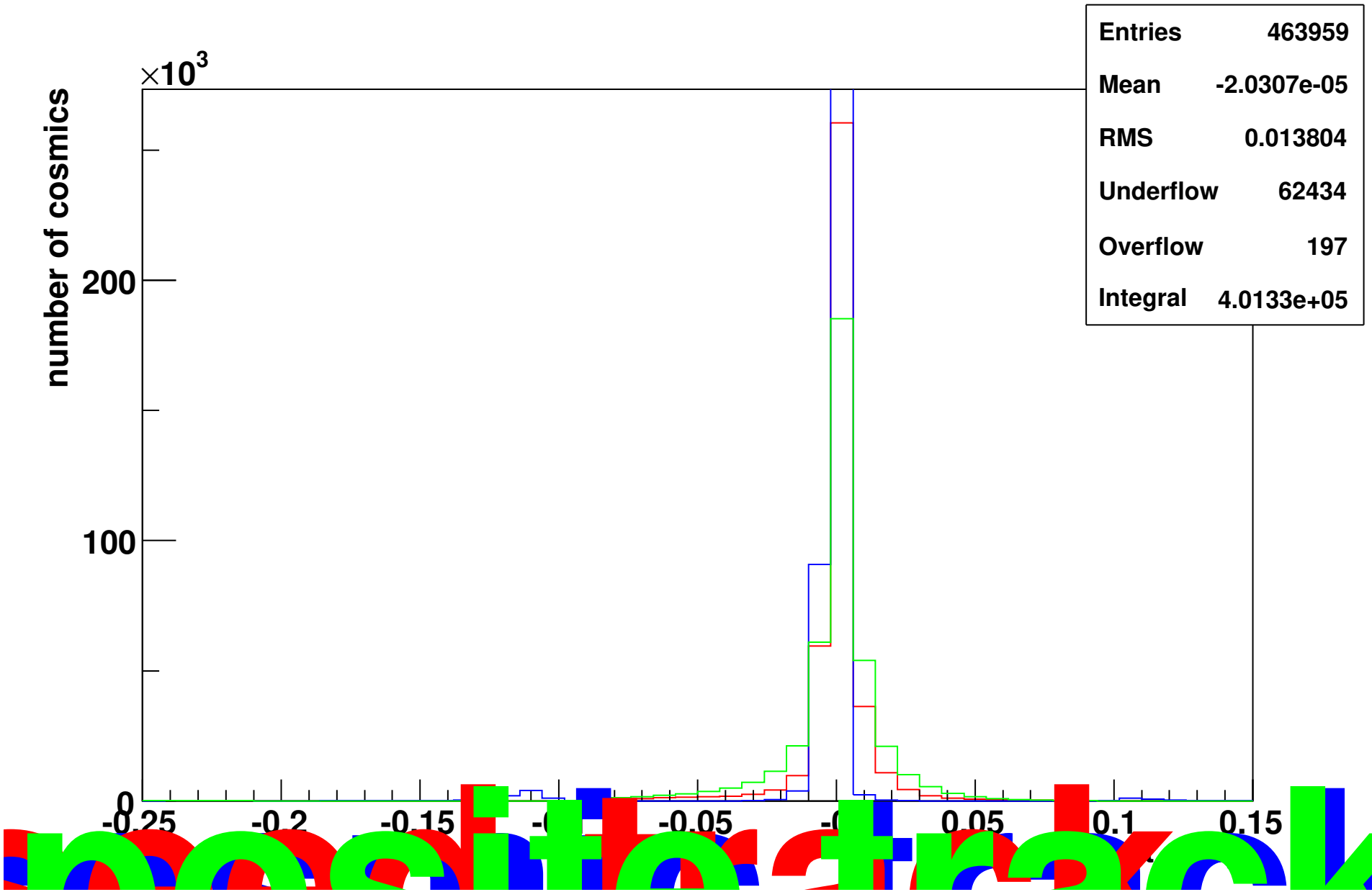

Entries 401590
Mean 7.7465e-06
RMS 7.1641e-05
Underflow 6414
Overflow 6976
Integral 3.882e+05
number of cosmics
10000
5000
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature

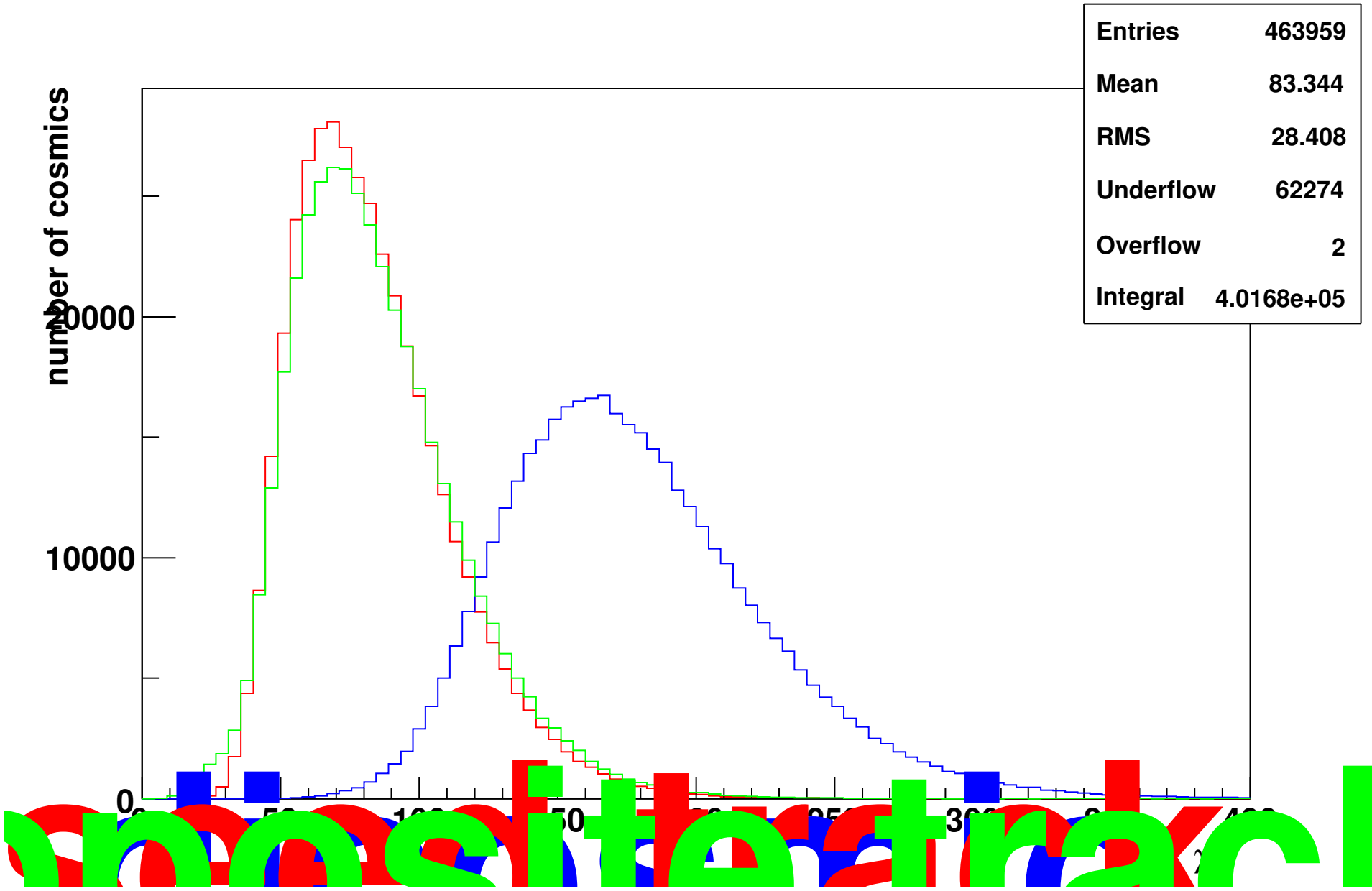

Entries 463959
Mean 0.11481
RMS 0.99339
Underflow 0
Overflow 0
Integral 4.6396e+05
×10^3
number of cosmics
200
100
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

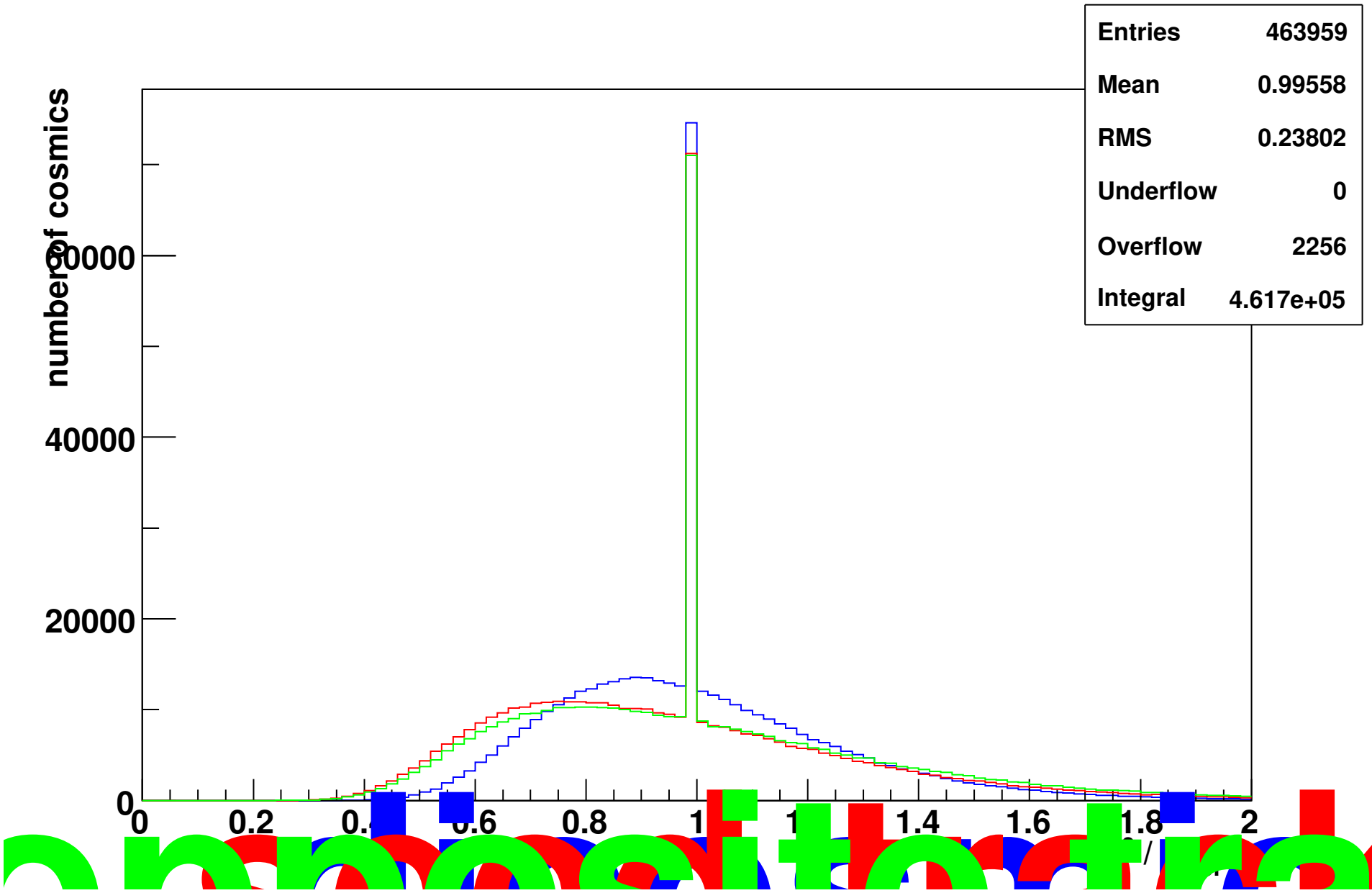

Entries 218011
Mean 5.6536e-08
RMS 6.7118e-05
Underflow 0
Overflow 0
Integral 1.9219e+05
number of alignment cosmics
4000
2000
0
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature

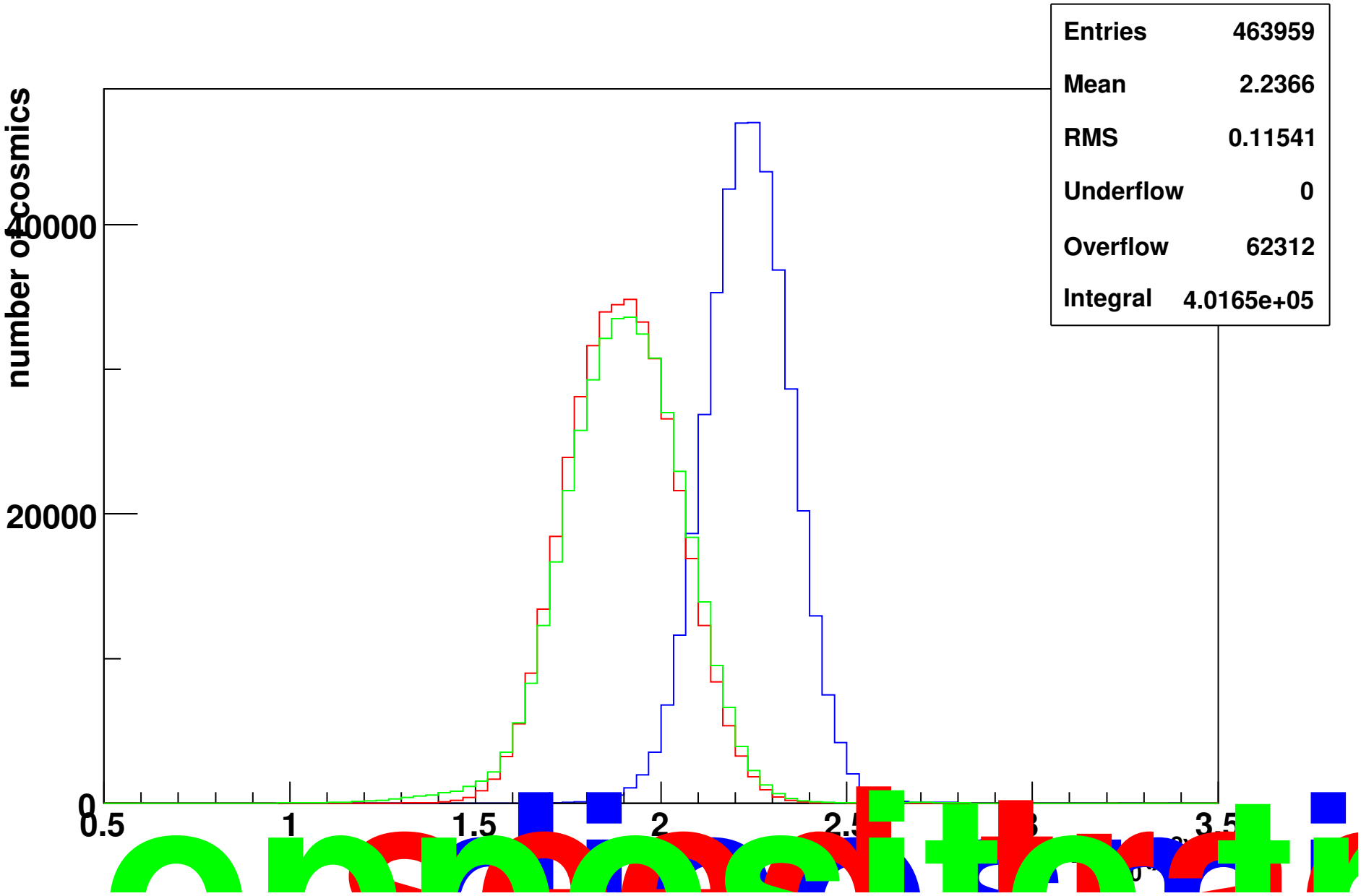

Entries 218011
Mean -0.00081957
RMS 1
Underflow 0
Overflow 0
Integral 1.9225e+05
×10^3
100
50
0
number of alignment cosmics
-1.5
-1
-0.5
0
0.5
1
1.5
charge


Entries 463959
Mean -0.044501
RMS 1.4643
Underflow 520
Overflow 135
Integral 4.633e+05
number of cosmics
×10^3
100
50
0
-10
-8
-6
-4
-2
0
2
4
6
8
10
Δ t0 (ns)

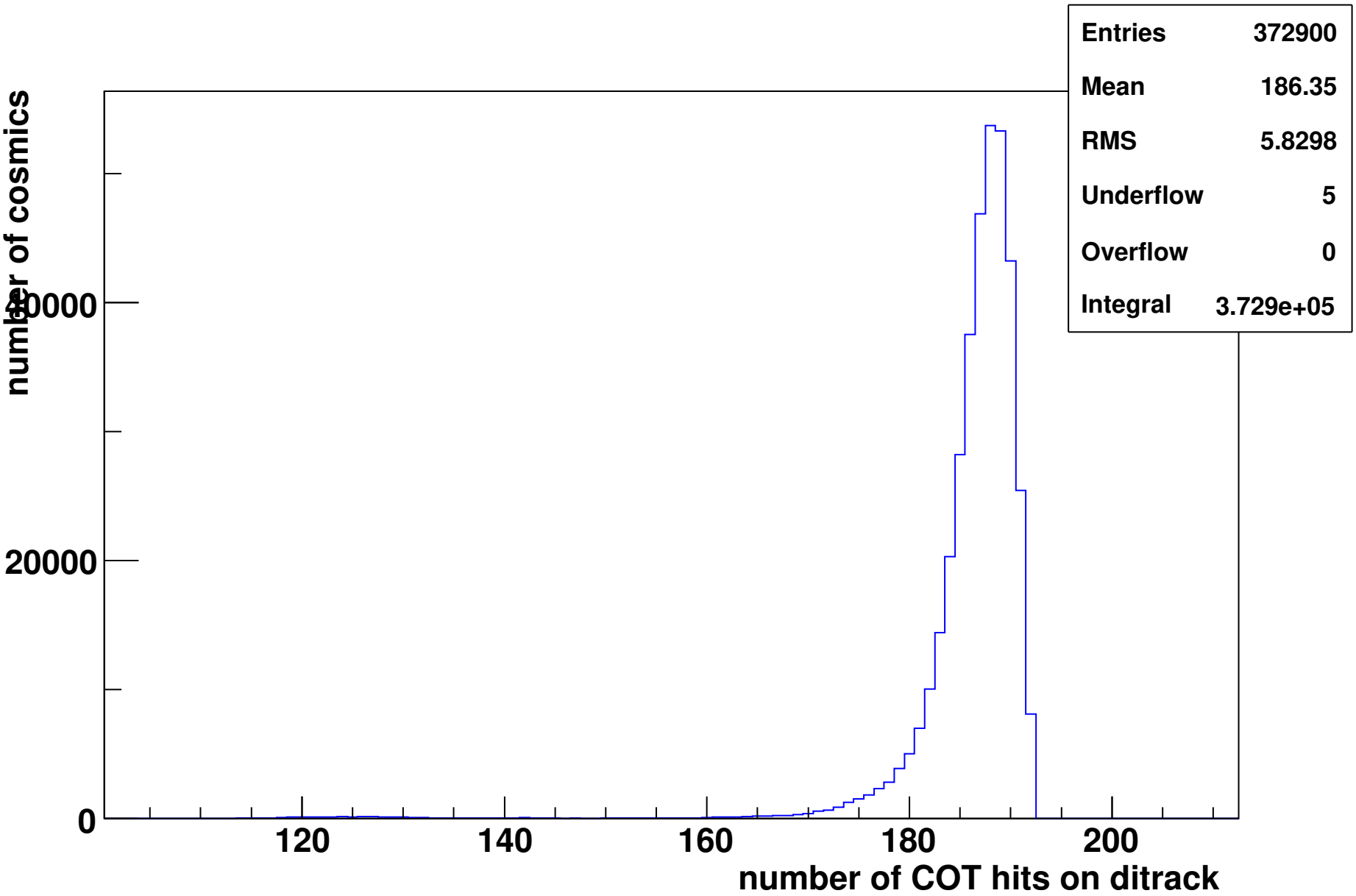

Entries 463959
Mean -2.0307e-05
RMS 0.013804
Underflow 62434
Overflow 197
Integral 4.0133e+05
number of cosmics
×10^3
200
100
0
-0.25
-0.2
-0.15
-0.05
0.05
0.1
0.15

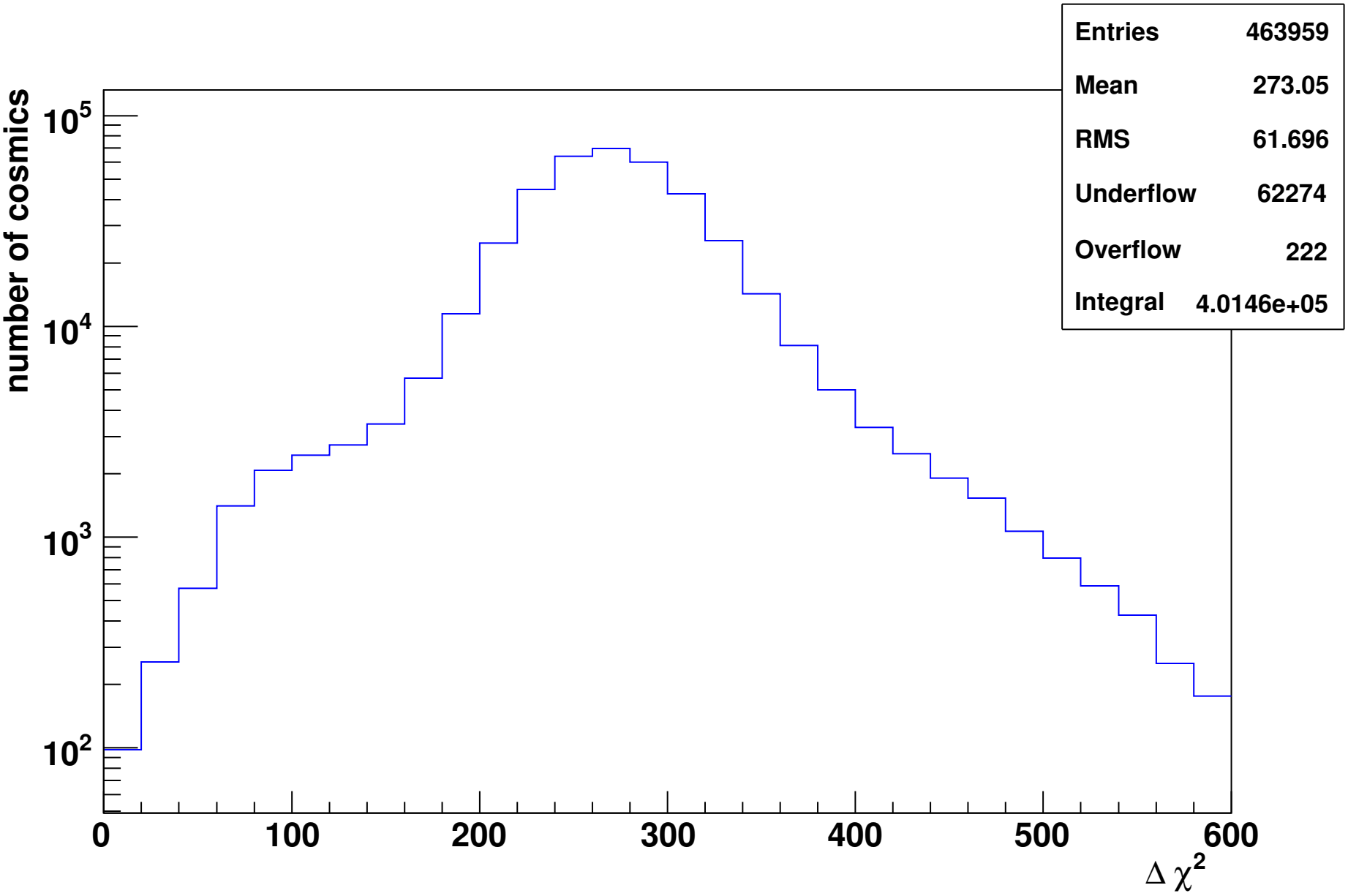

Entries 463959
Mean 83.344
RMS 28.408
Underflow 62274
Overflow 2
Integral 4.0168e+05
number of cosmics
20000
10000
0

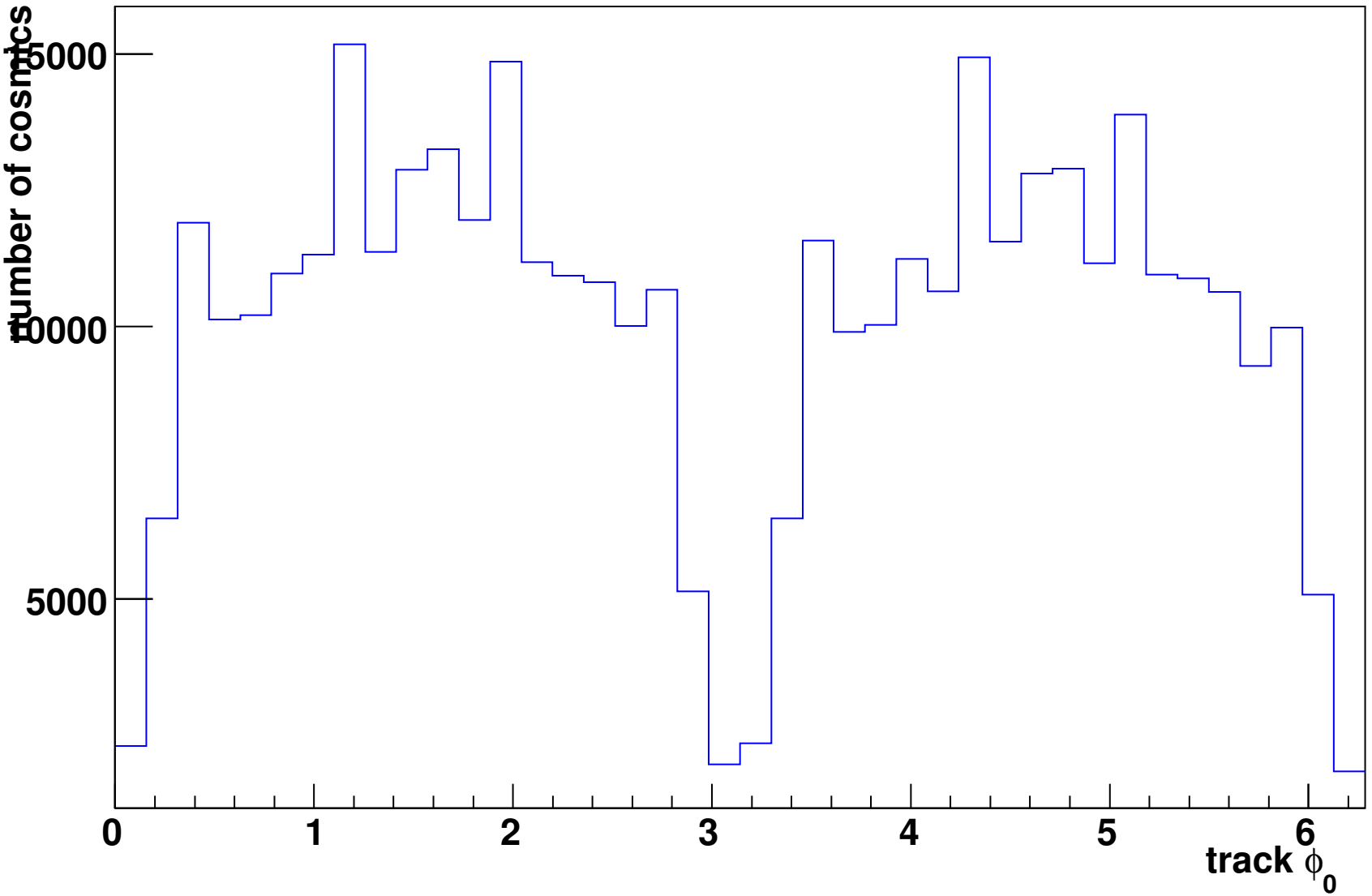

Entries 463959
Mean 0.99558
RMS 0.23802
Underflow 0
Overflow 2256
Integral 4.617e+05
number of cosmics
40000
20000
0
0
0.2
0.6
0.8
1.4
1.6
1.8
2

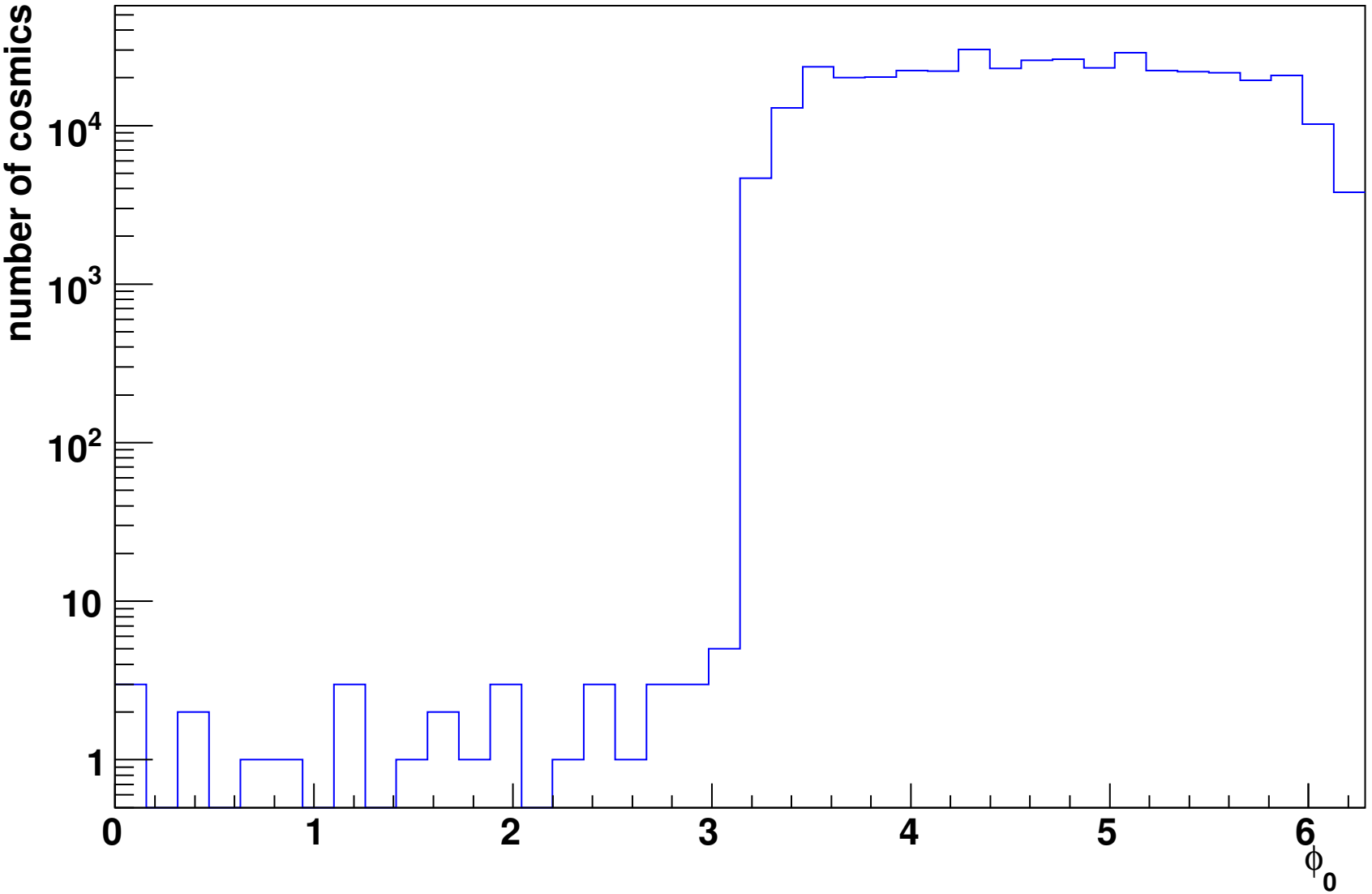

Entries 463959
Mean 2.2366
RMS 0.11541
Underflow 0
Overflow 62312
Integral 4.0165e+05
number of cosmics
40000
20000
0
0.5
1
1.5
2
2.5
3.5

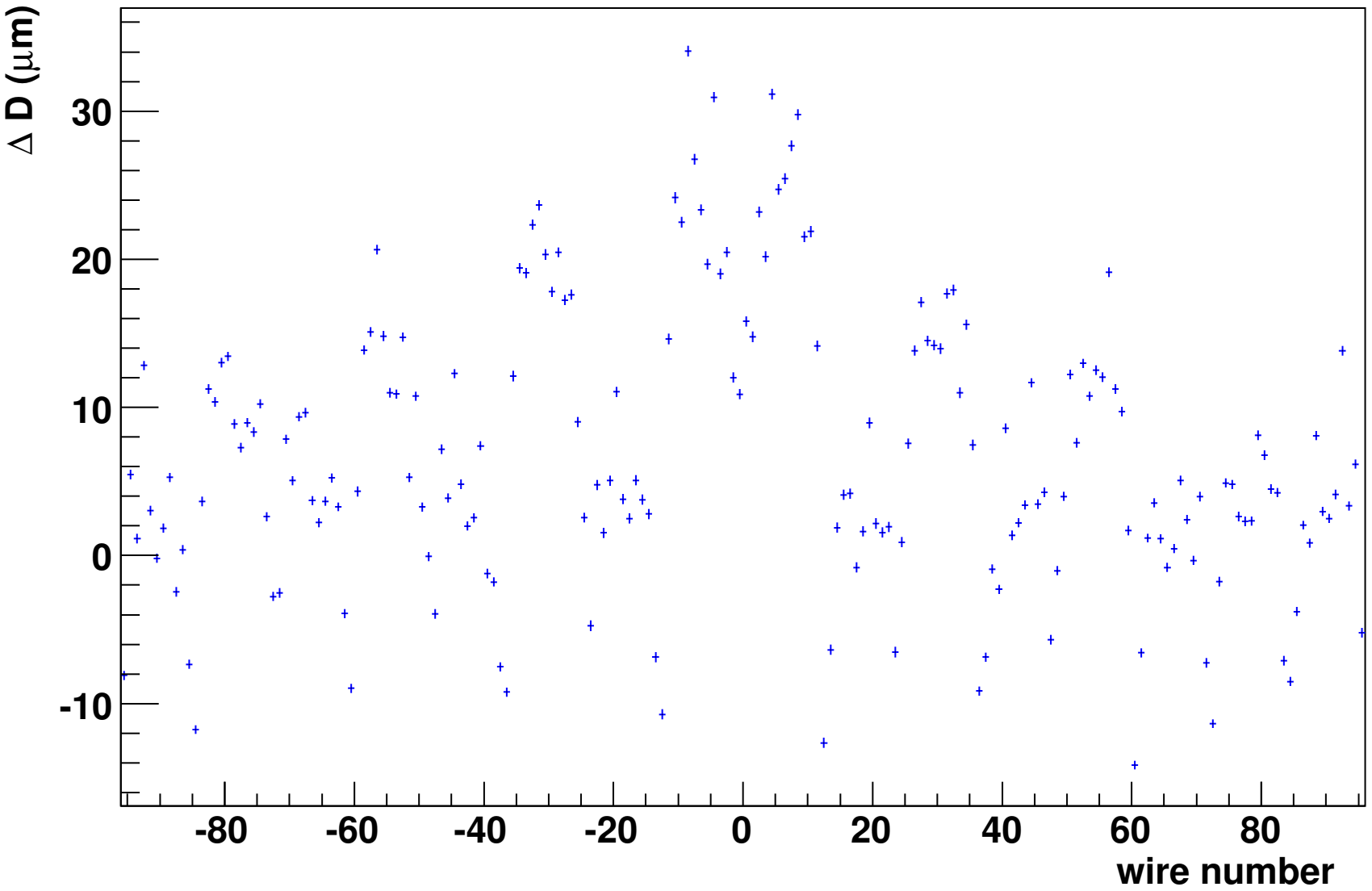
Entries 463959
number of ditracks
10^5
10^4
10^3
10^2
10
-0.5
0
0.5
1
1.5
2
3
4
4.5
ditrack type

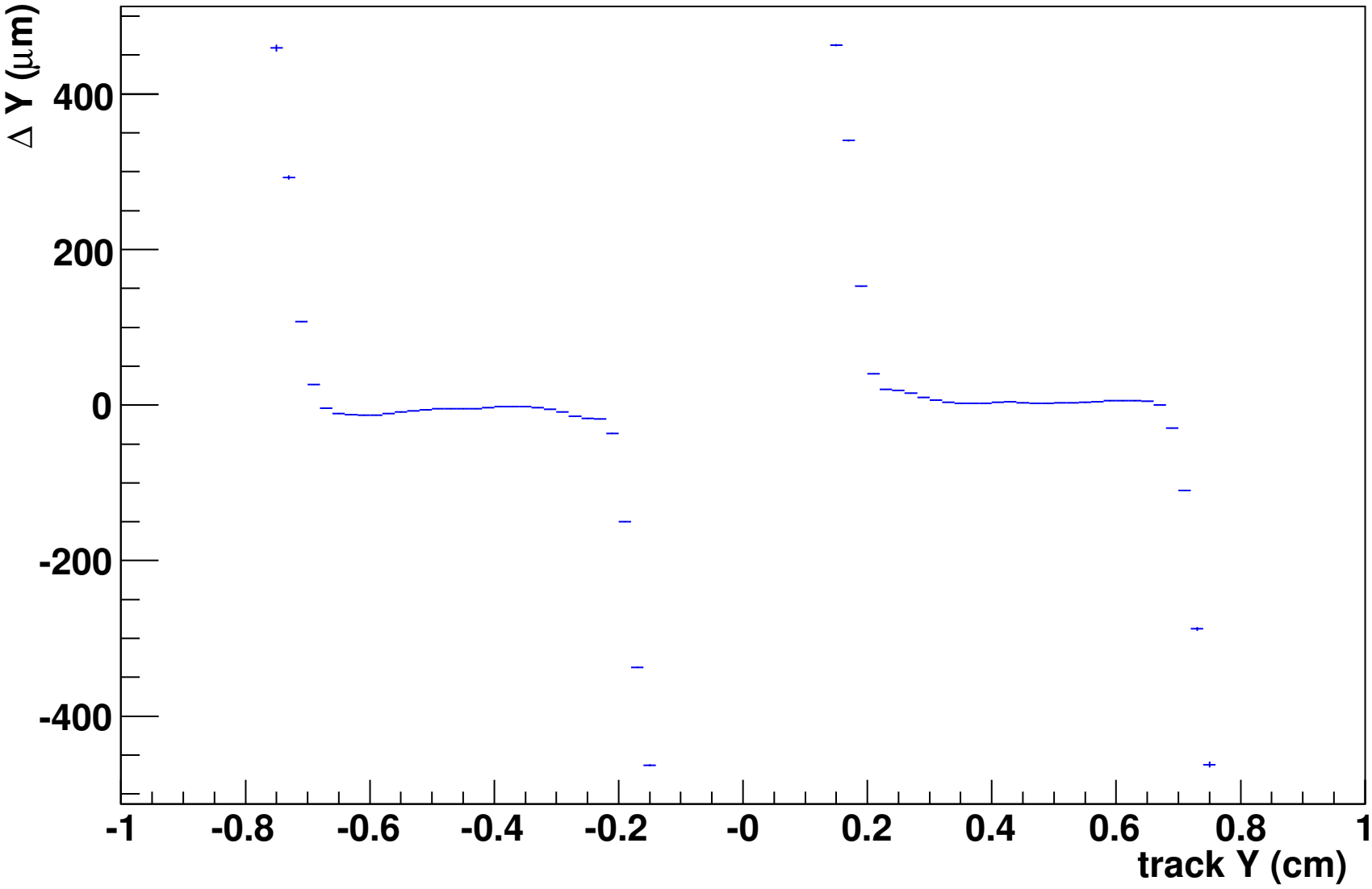

Entries 372900
Mean 186.35
RMS 5.8298
Underflow 5
Overflow 0
Integral 3.729e+05
number of cosmics
40000
20000
0
120
140
160
180
200
number of COT hits on ditrack

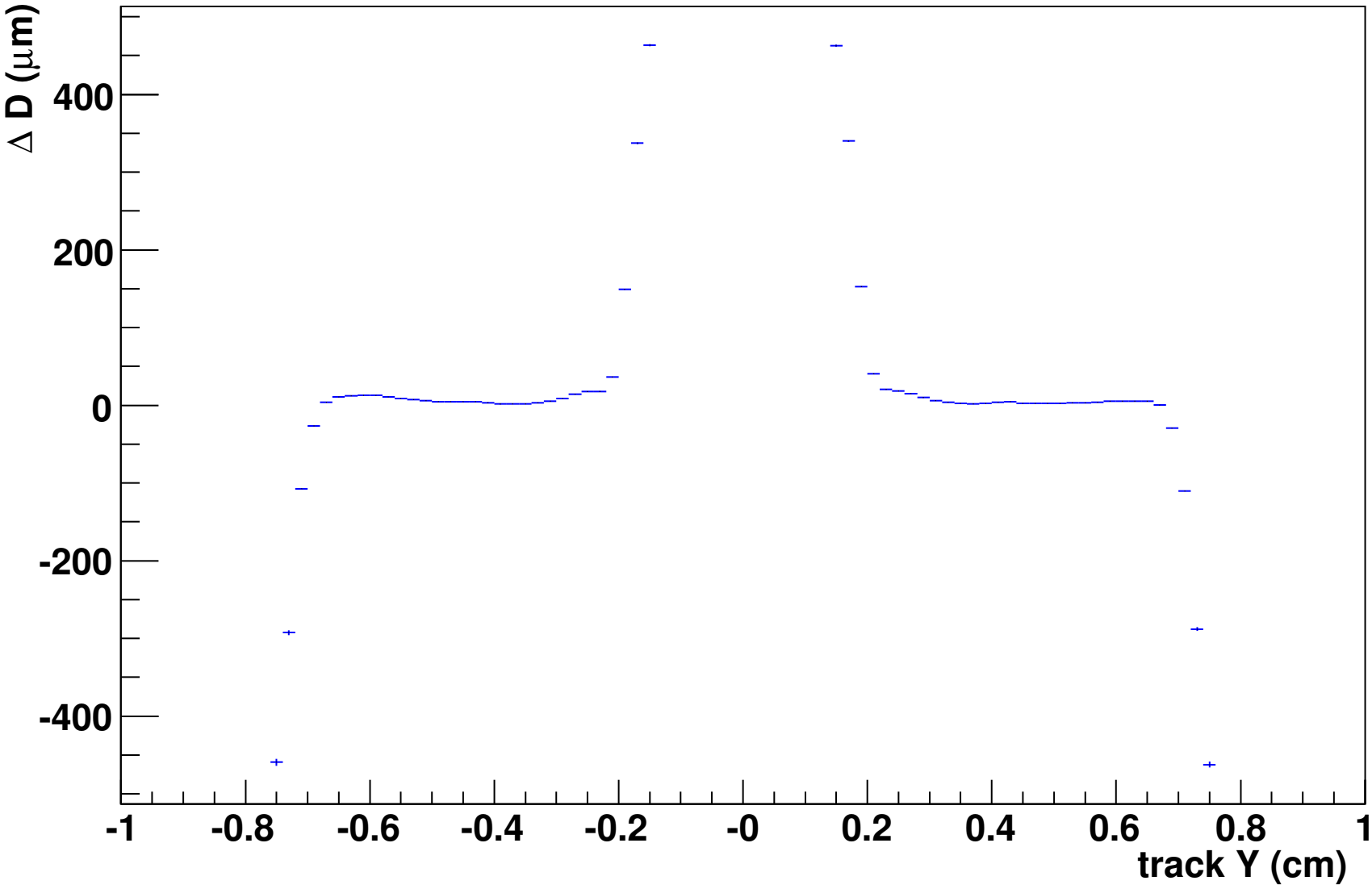

Entries 463959
Mean 273.05
RMS 61.696
Underflow 62274
Overflow 222
Integral 4.0146e+05
number of cosmics
10^5
10^4
10^3
10^2
0
100
200
300
400
500
600
$\Delta\,\chi^2$

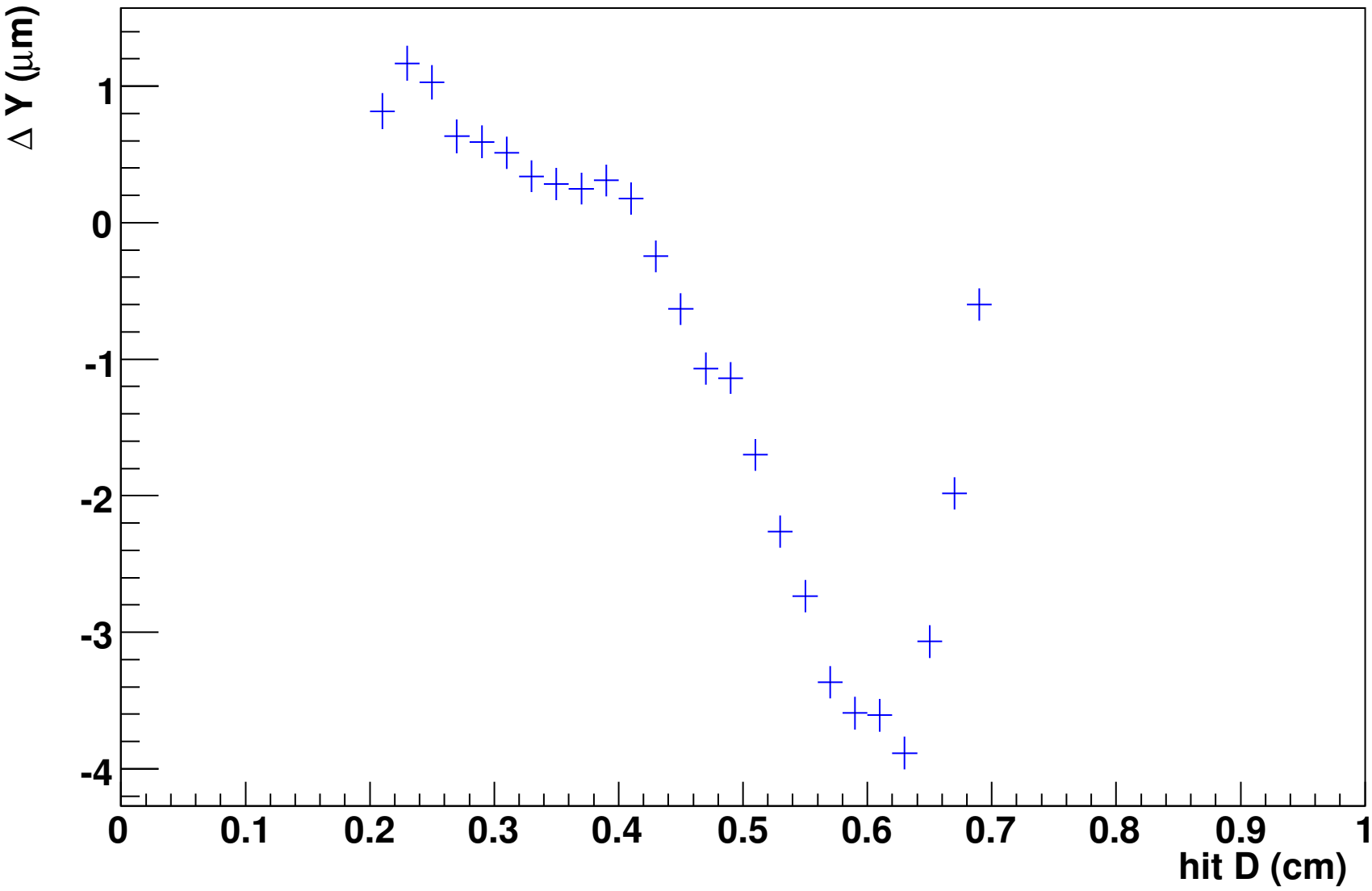

number of cosmics
15000
10000
5000
0
1
2
3
4
5
6
track ϕ_0

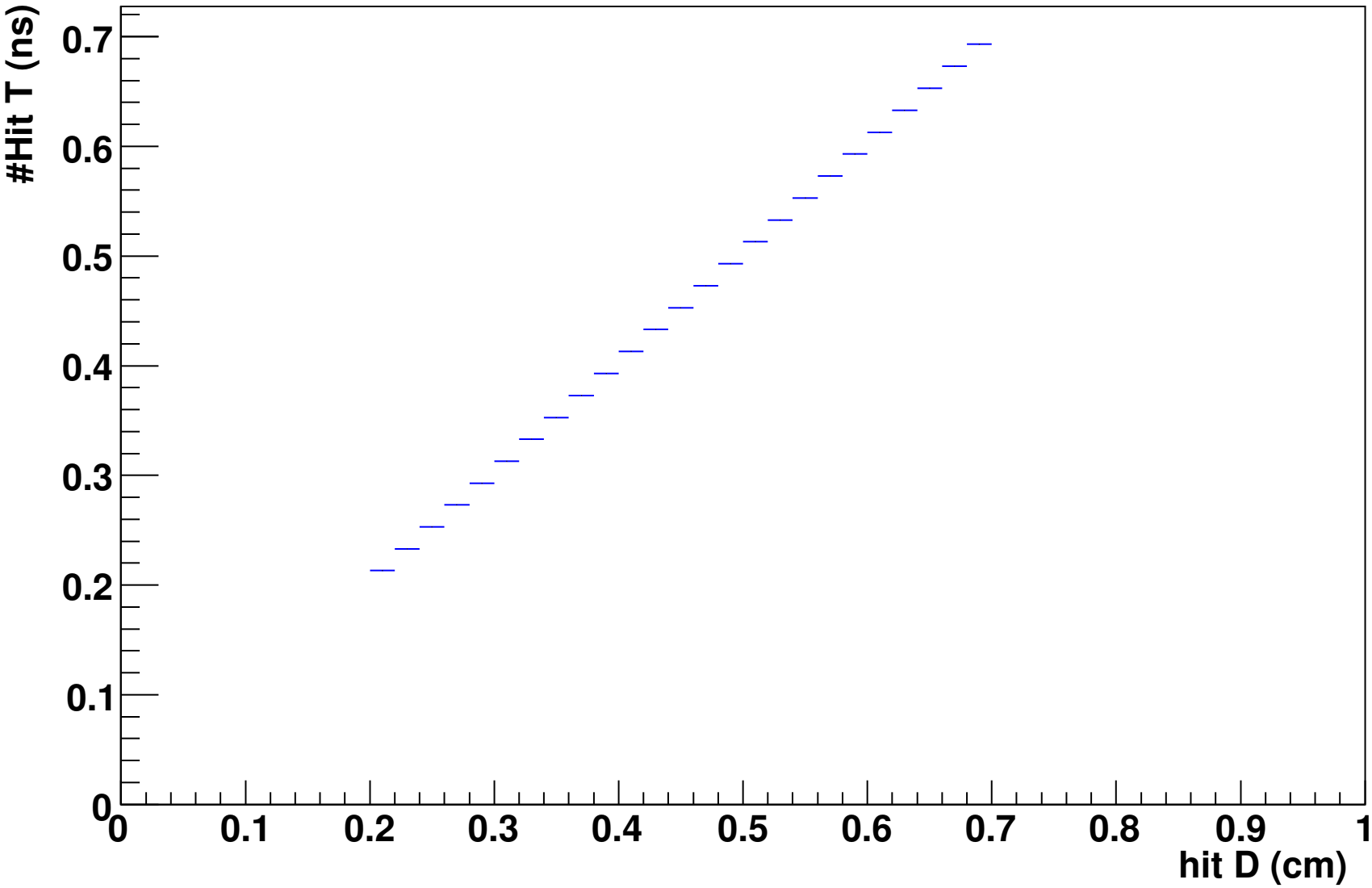

number of cosmics
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
ϕ_0

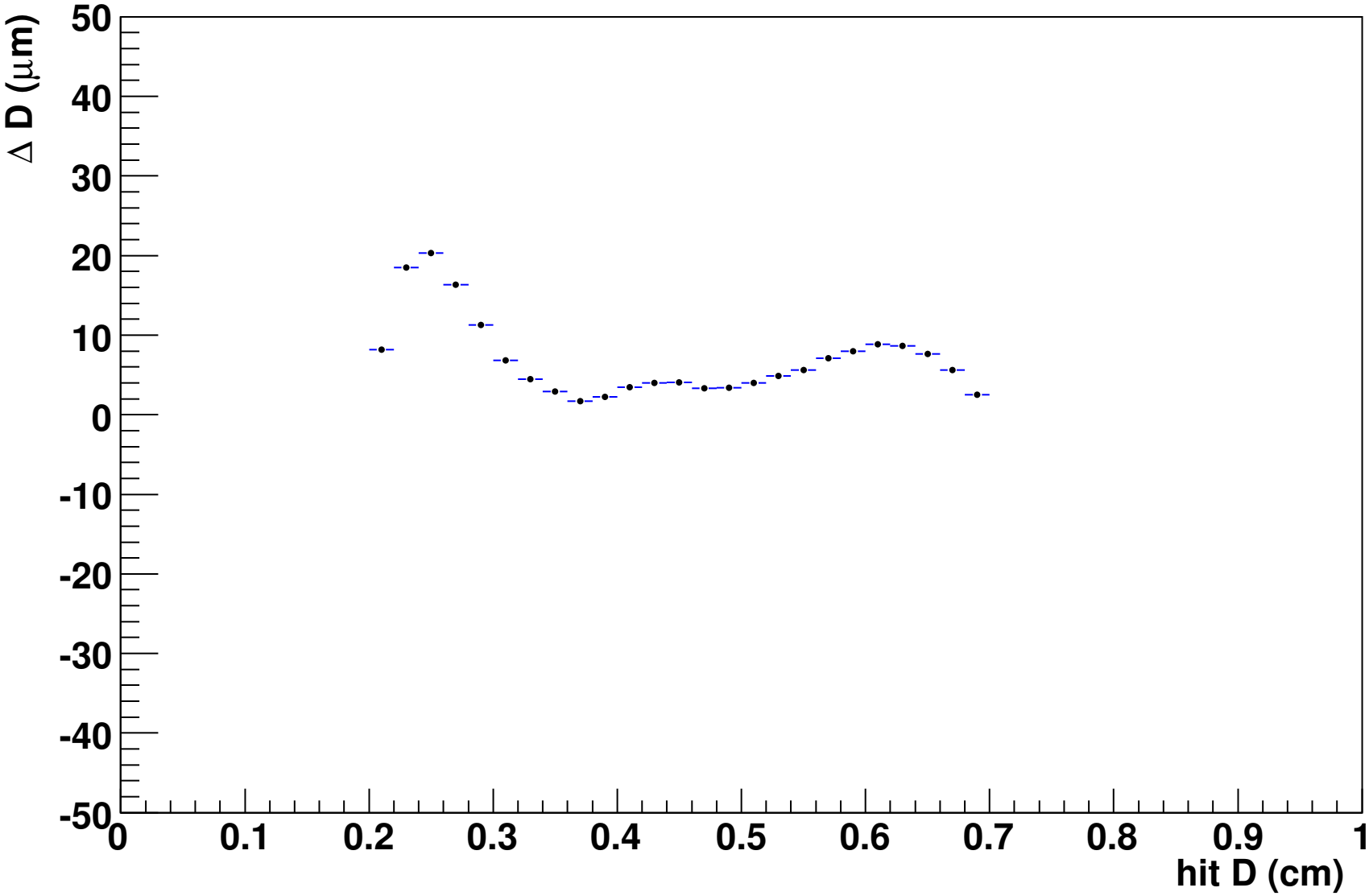

Δ D (μm)
30
20
10
0
-10
-80
-60
-40
-20
0
20
40
60
80
wire number

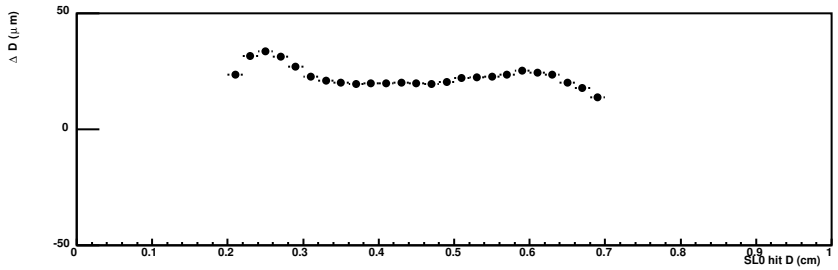

Δ Y (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)

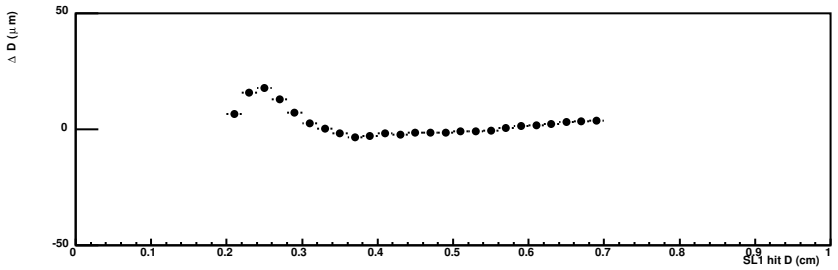

Δ D (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)

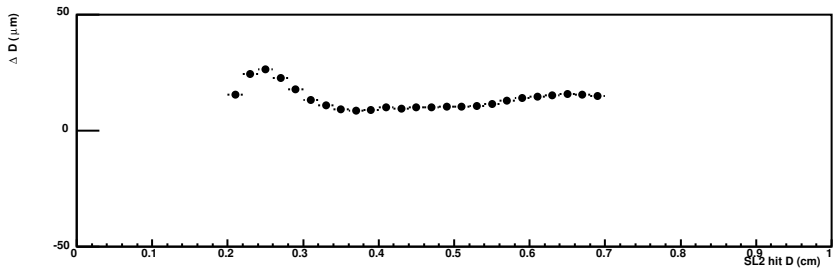

Δ Y (μm)
1
0
-1
-2
-3
-4
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

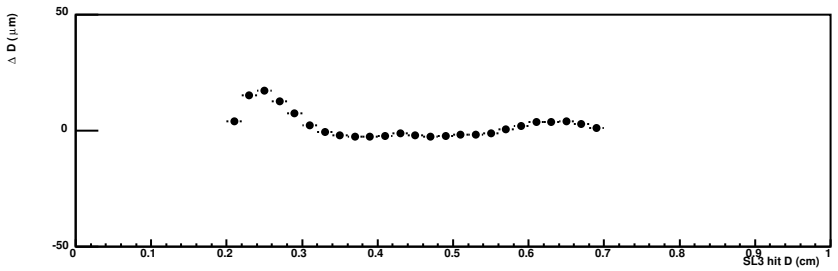

#Hit T (ns)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

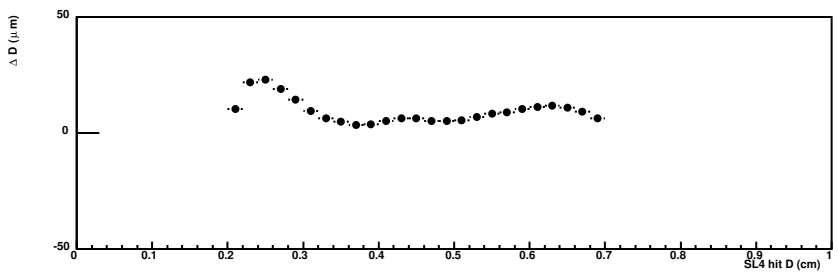

Δ D (μm)
50
40
30
20
10
0
-10
-20
-30
-40
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)

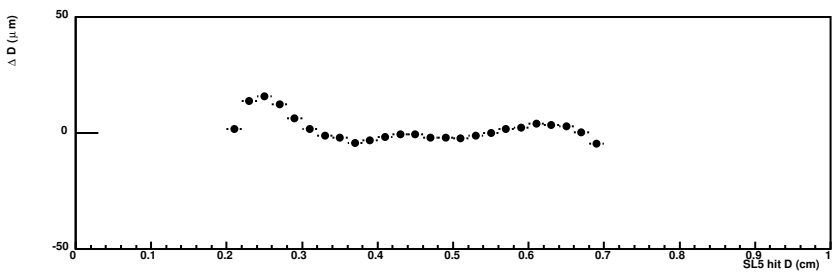

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL0 hit D (cm)

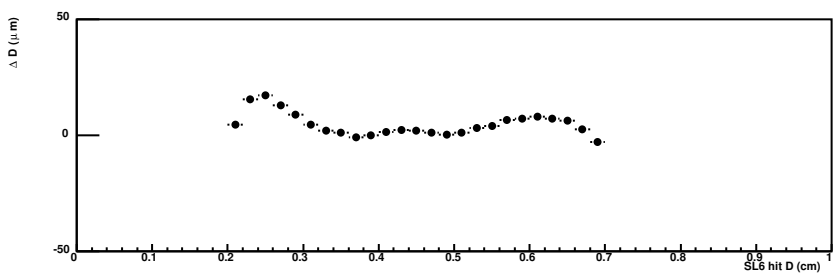

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL1 hit D (cm)

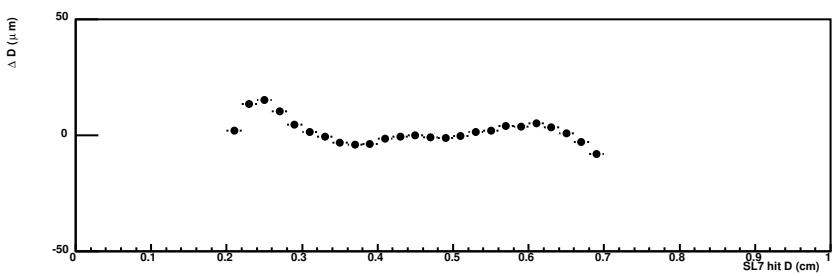

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL2 hit D (cm)

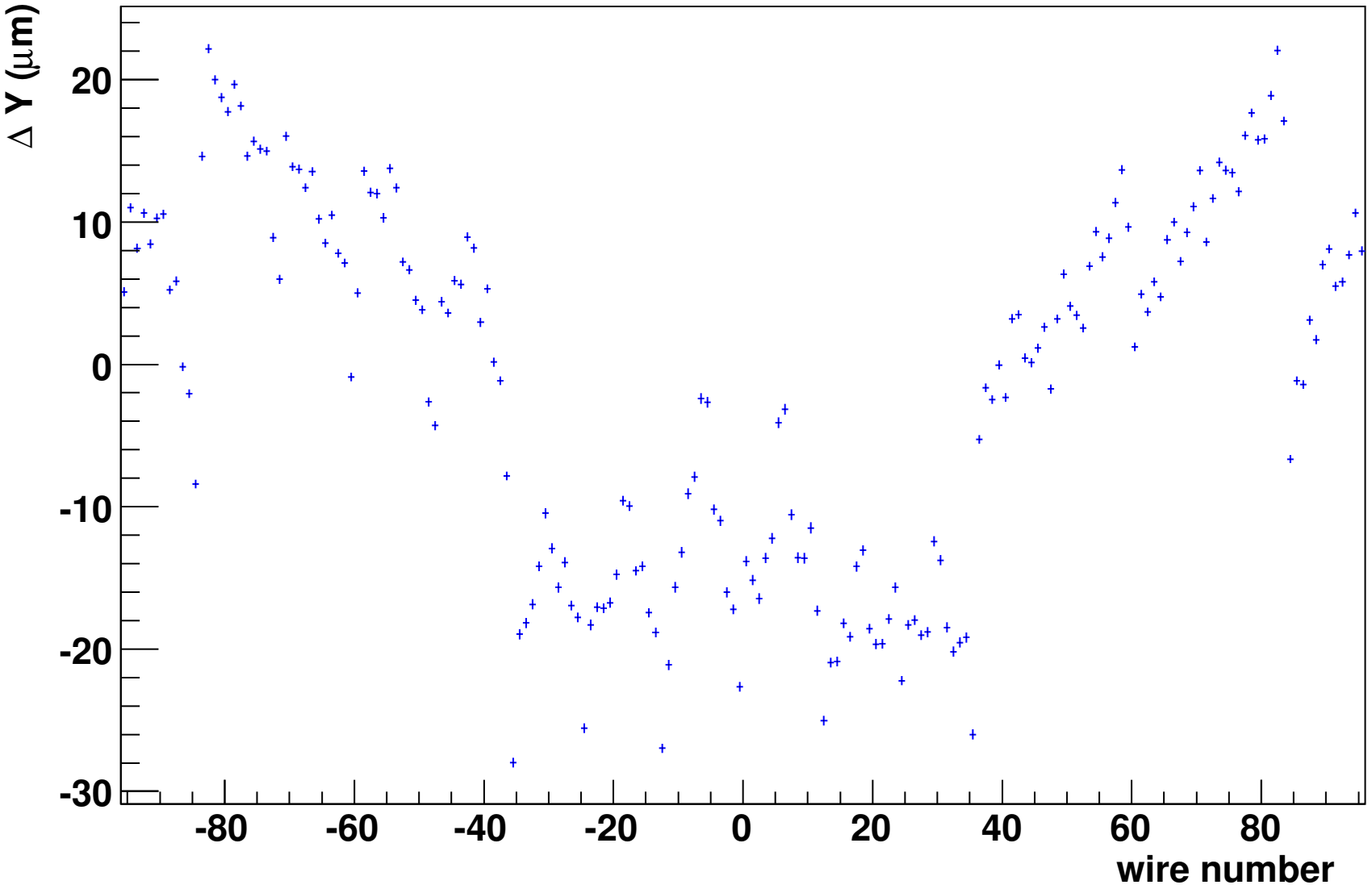

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL3 hit D (cm)

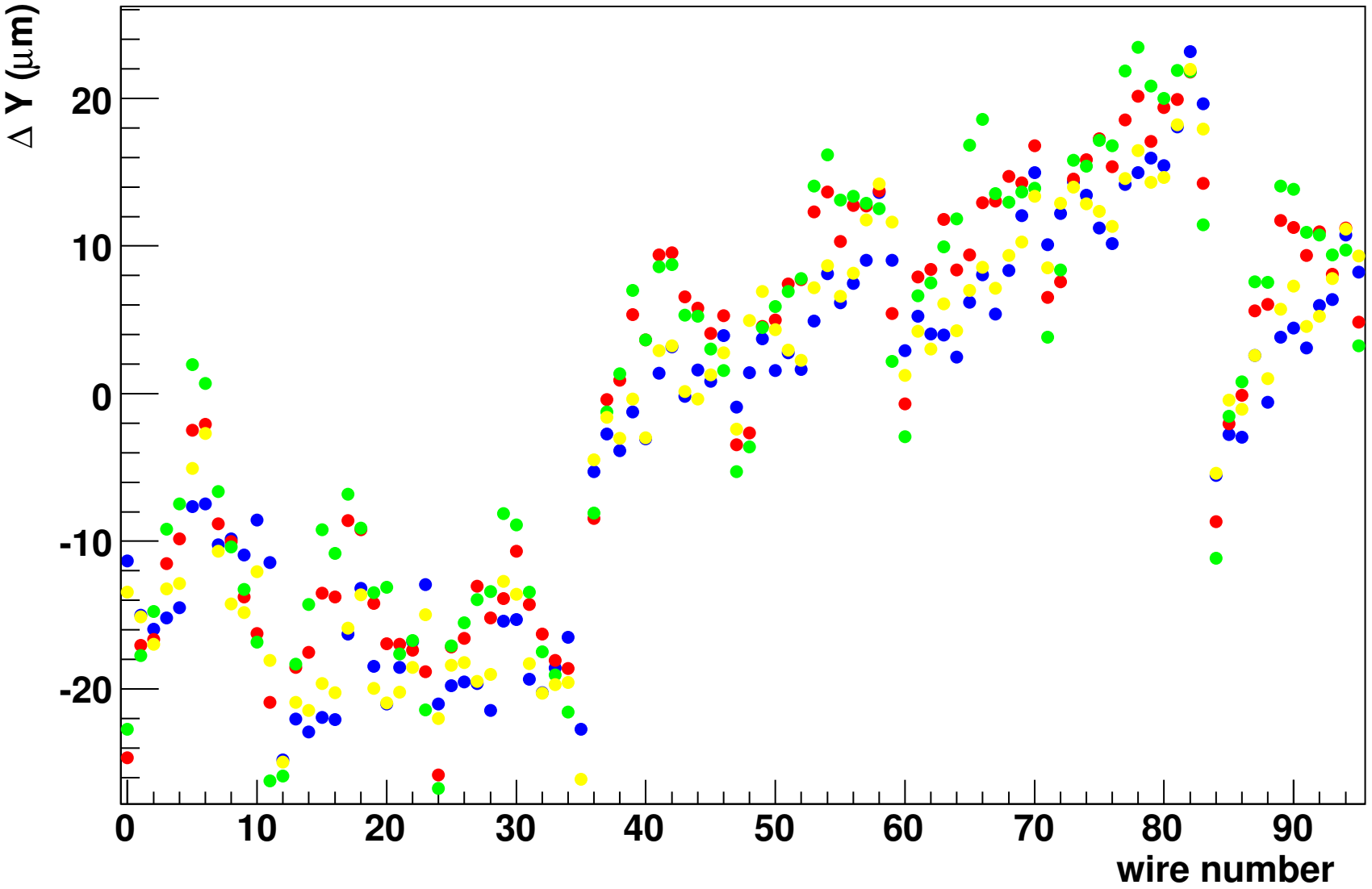

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL4 hit D (cm)

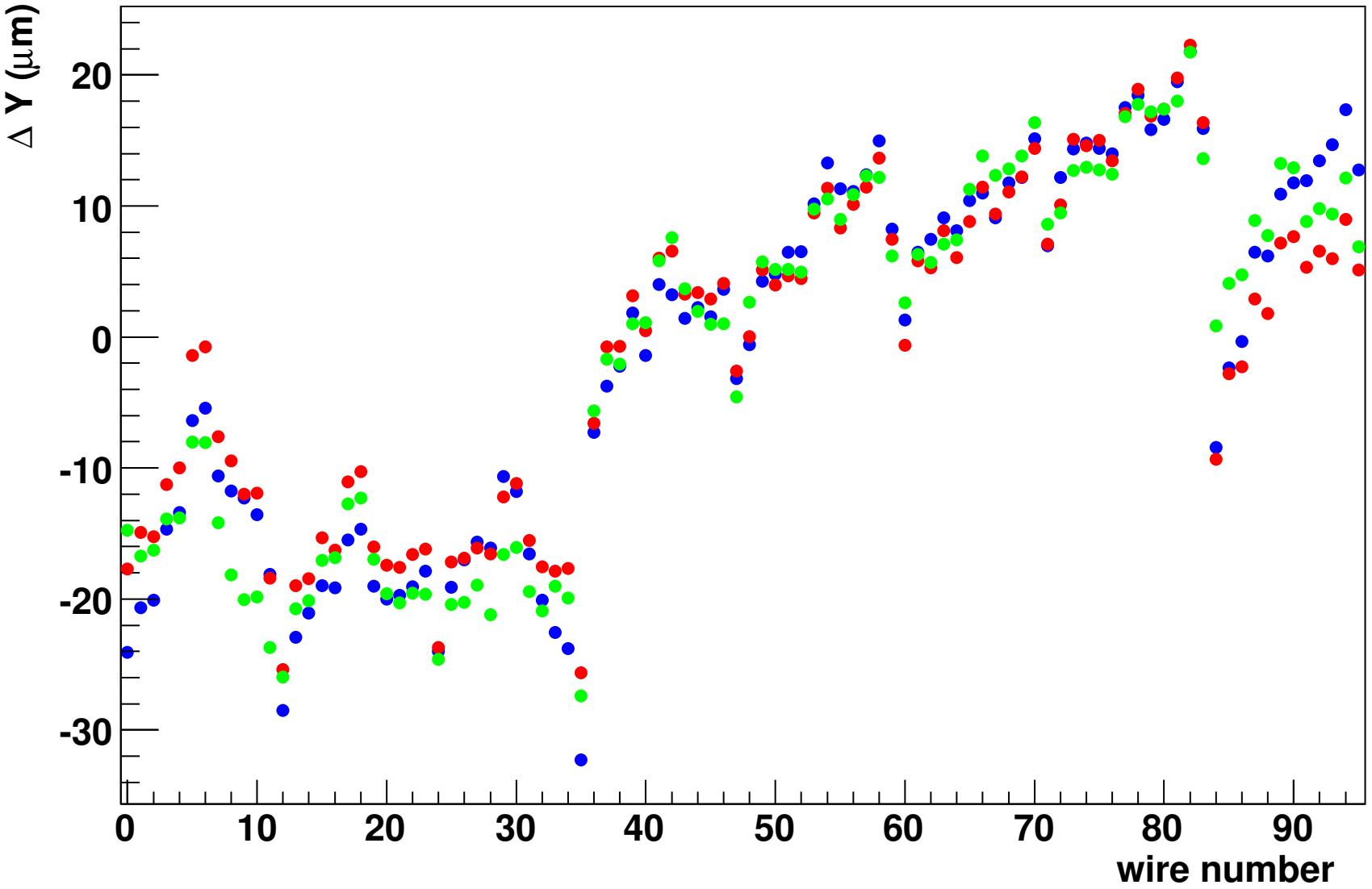

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL5 hit D (cm)

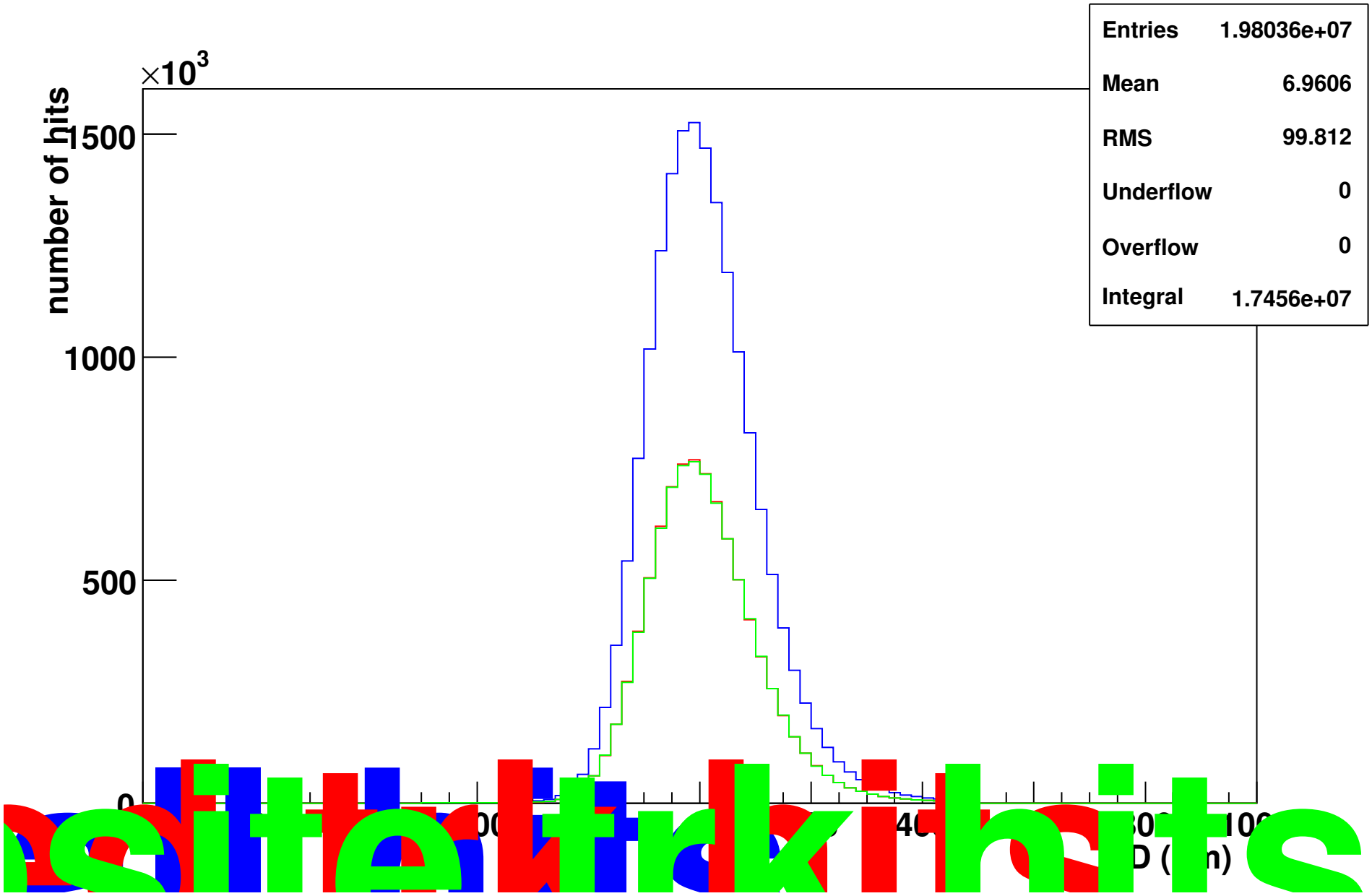

Δ D (μm)
50
0
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
SL6 hit D (cm)


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

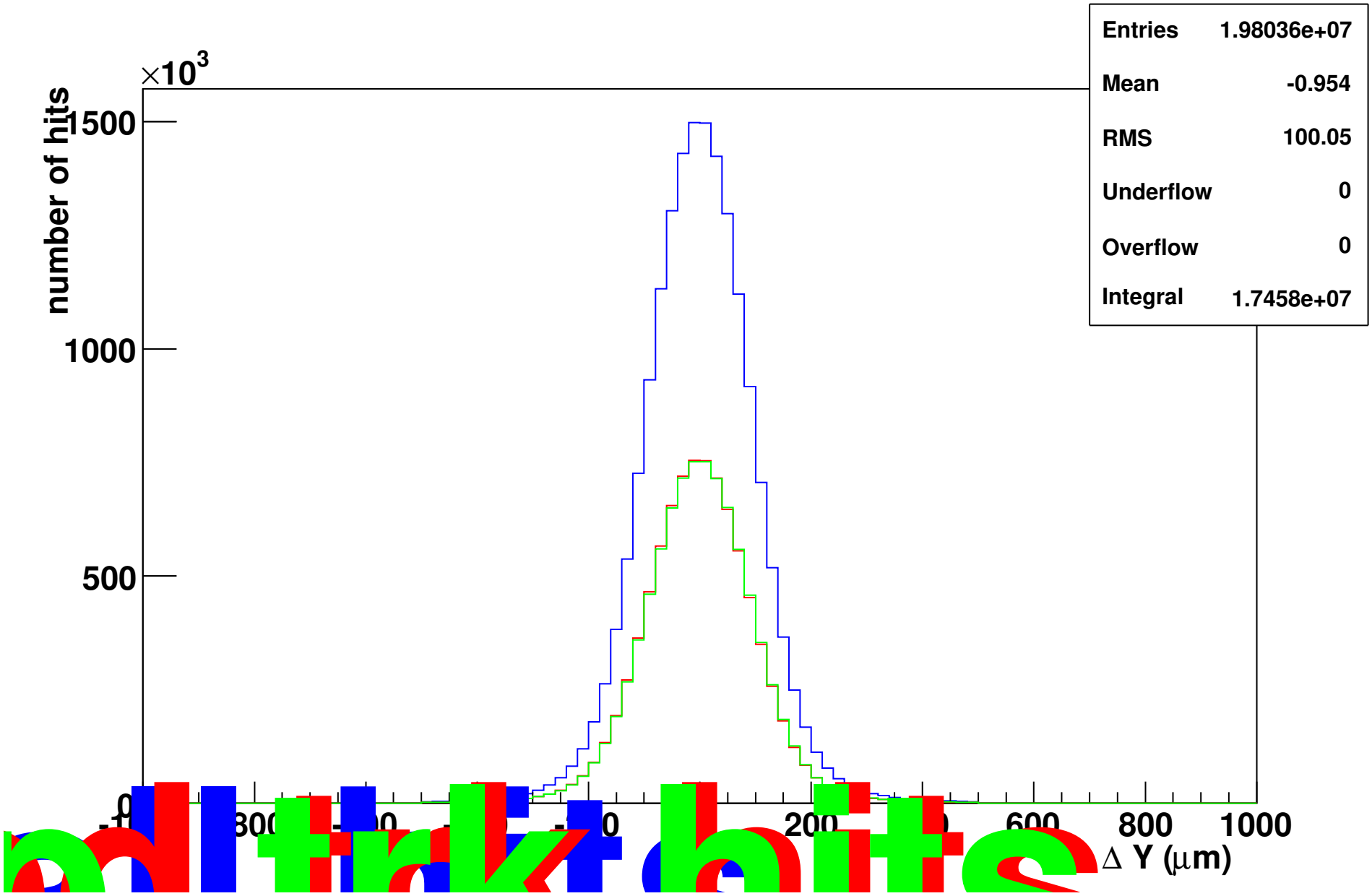

Δ Y (μm)
20
10
0
-10
-20
-30
-80
-60
-40
-20
0
20
40
60
80
wire number

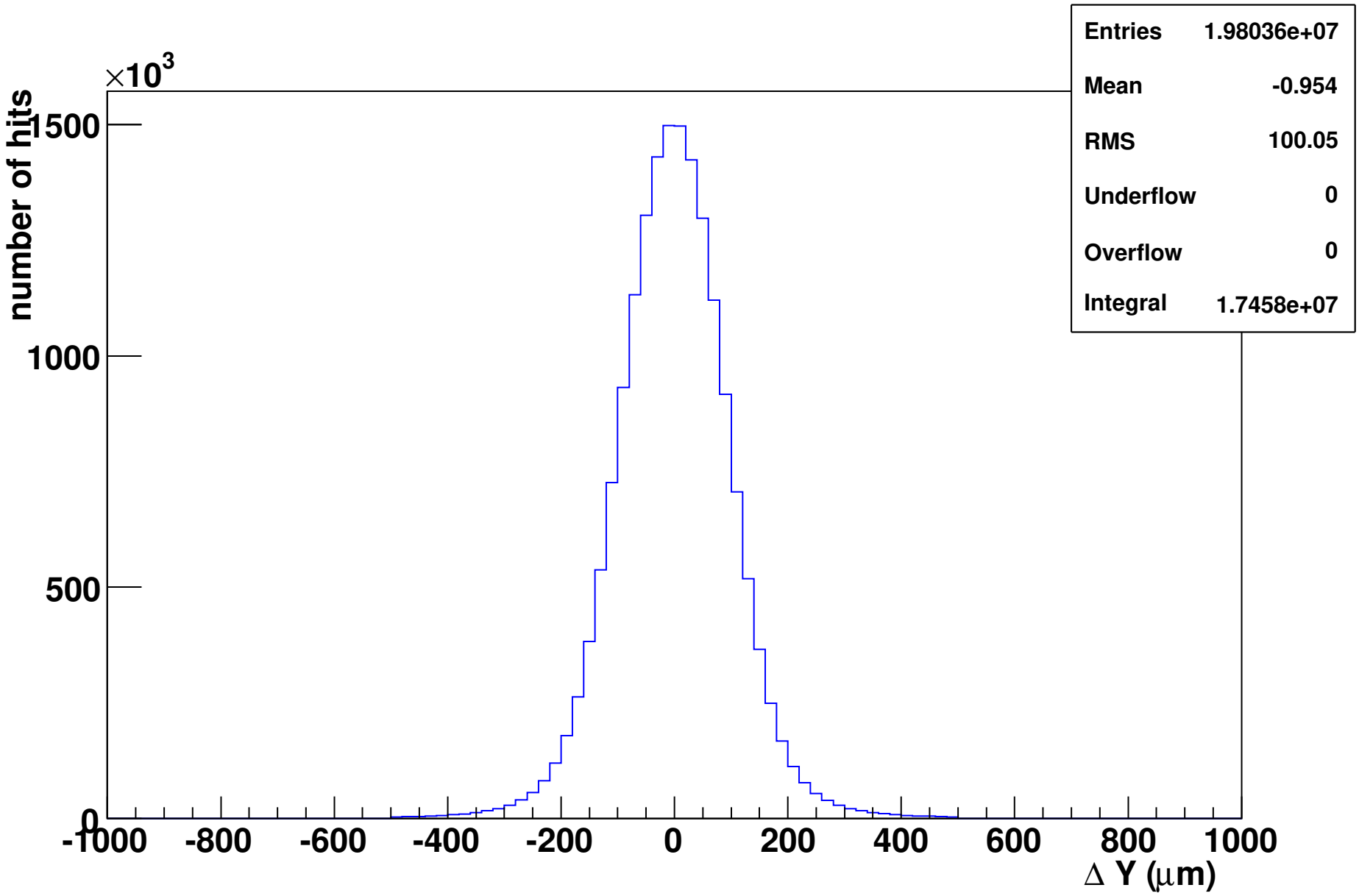

Δ Y (μm)
20
10
0
-10
-20
0
10
20
30
40
50
60
70
80
90
wire number


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



Entries 1.98036e+07
Mean 6.9606
RMS 99.812
Underflow 0
Overflow 0
Integral 1.7456e+07
number of hits
×10^3
1500
1000
500
0


Entries 1.98036e+07
Mean -0.954
RMS 100.05
Underflow 0
Overflow 0
Integral 1.7458e+07
number of hits
×10^3
1500
1000
500
0
-800
200
600
800
1000
Δ Y (μm)


Entries 1.98036e+07
Mean -0.954
RMS 100.05
Underflow 0
Overflow 0
Integral 1.7458e+07
×10^3
number of hits
1500
1000
500
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000
Δ Y (μm)