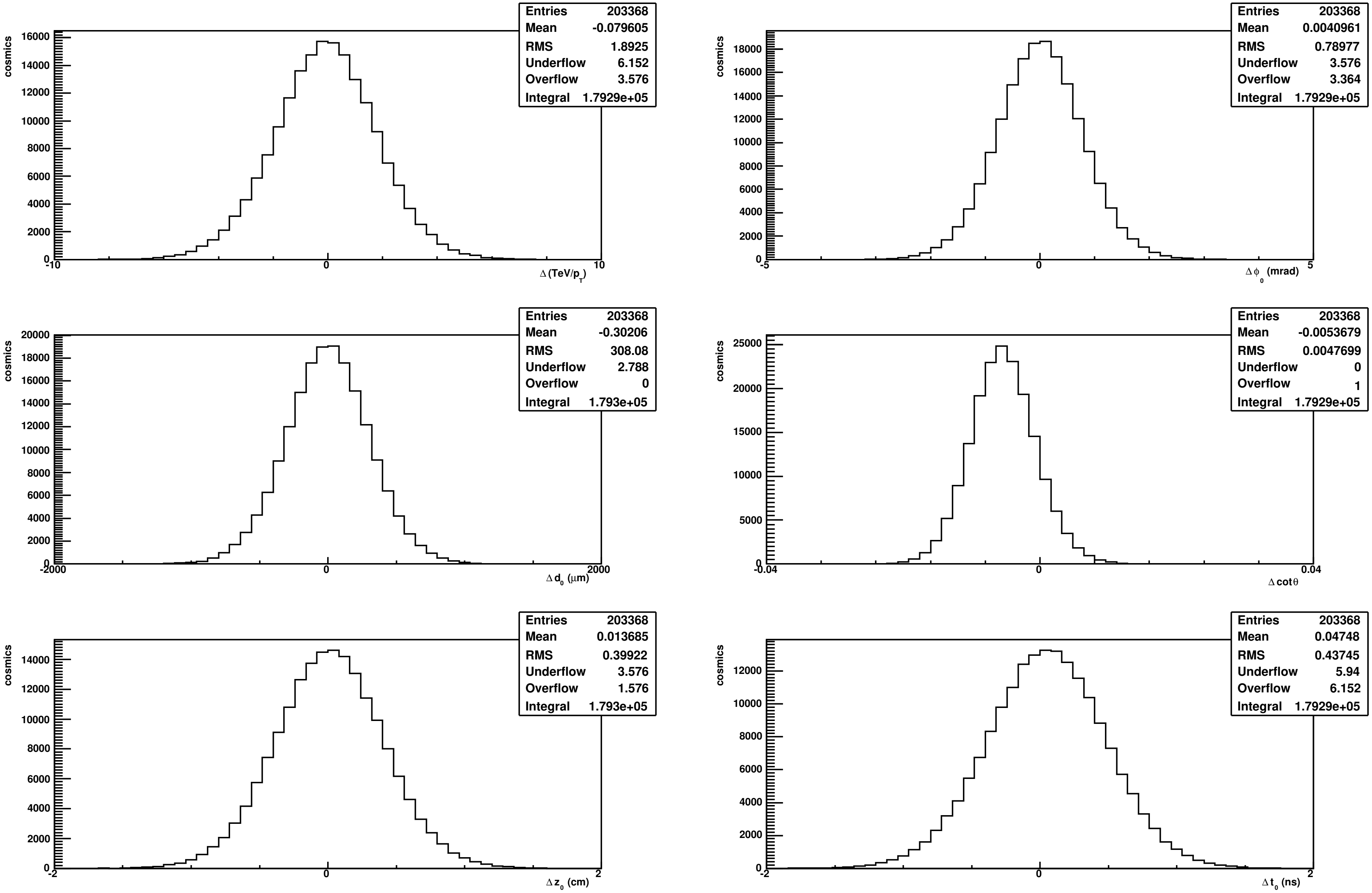
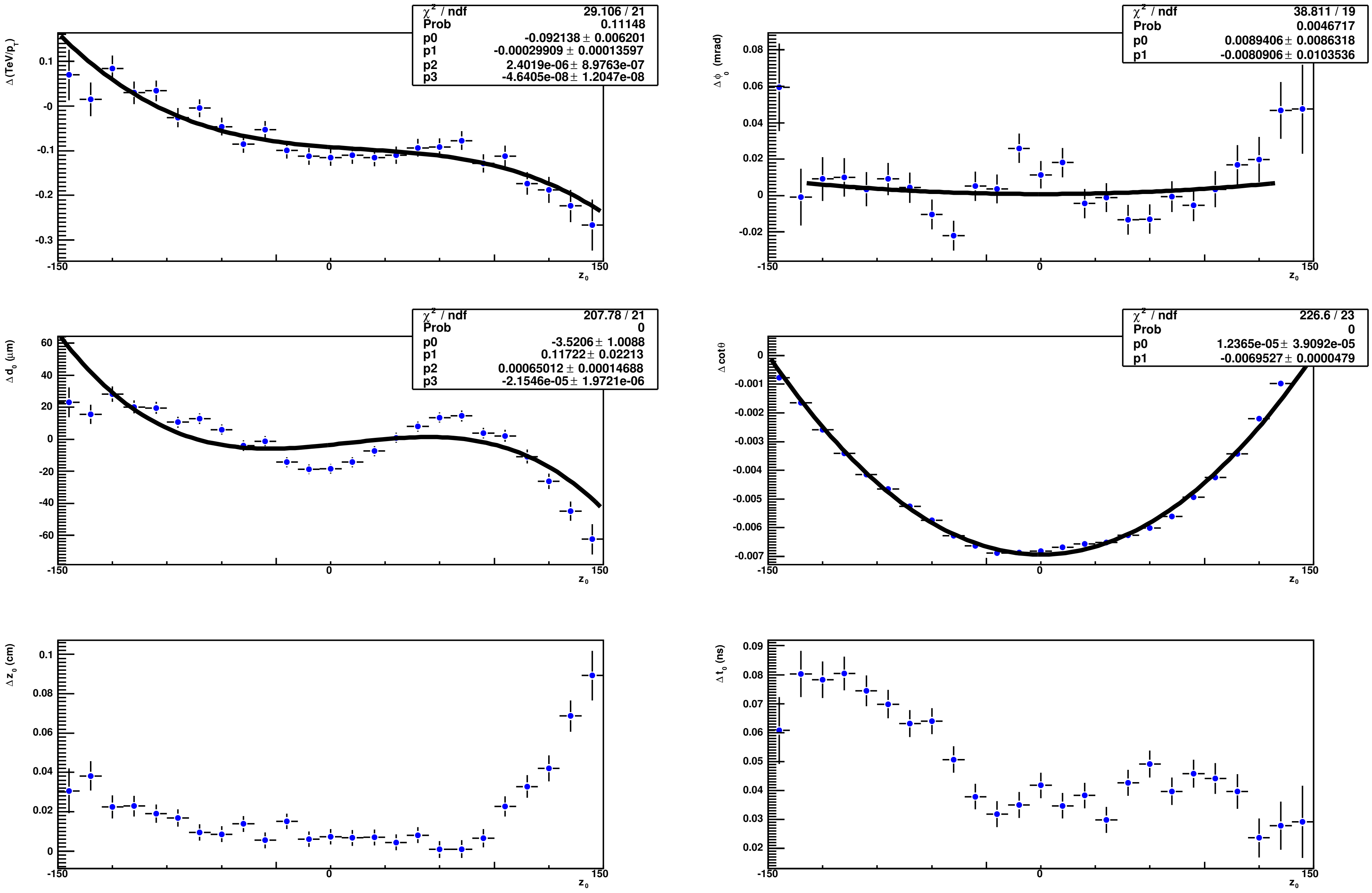
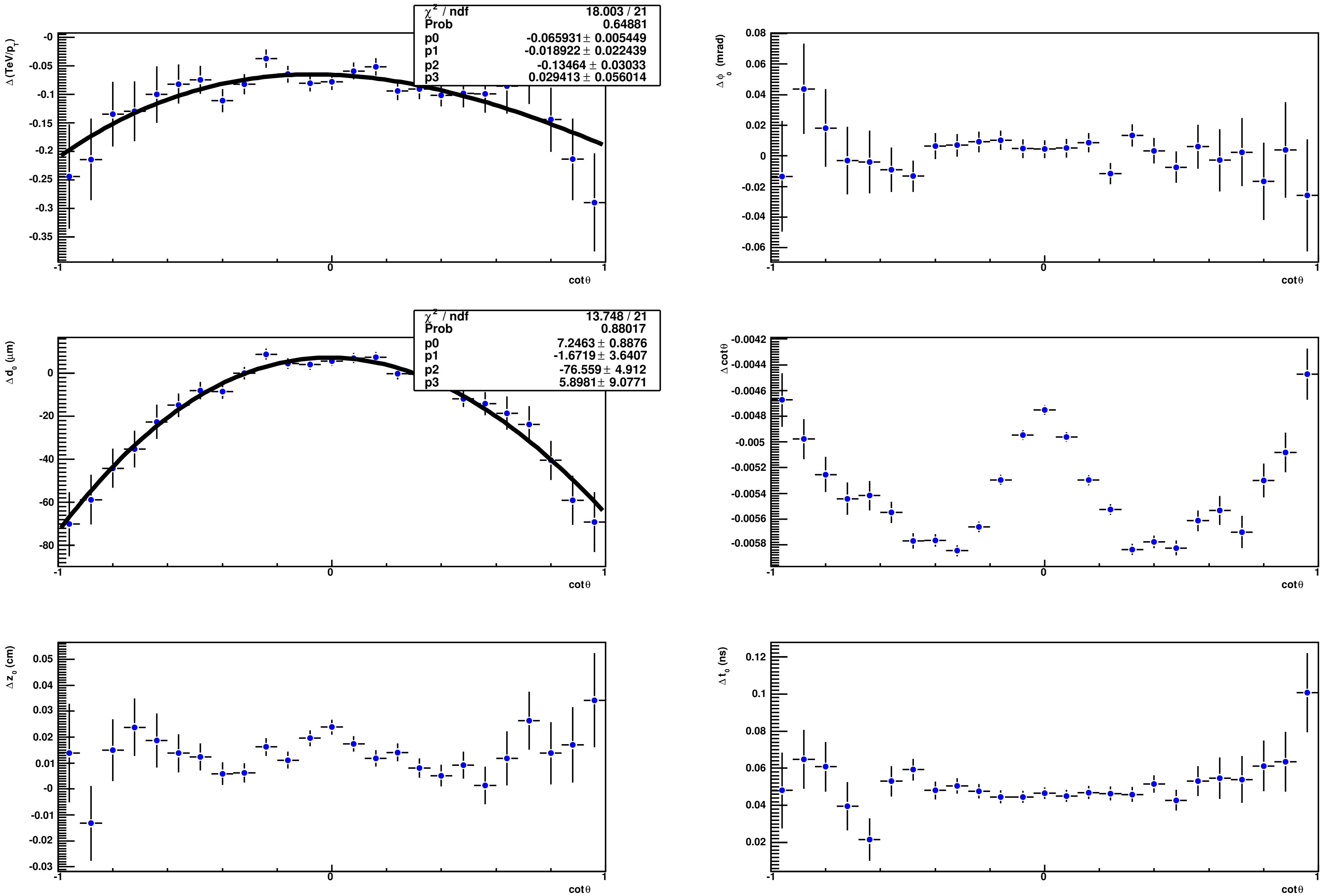
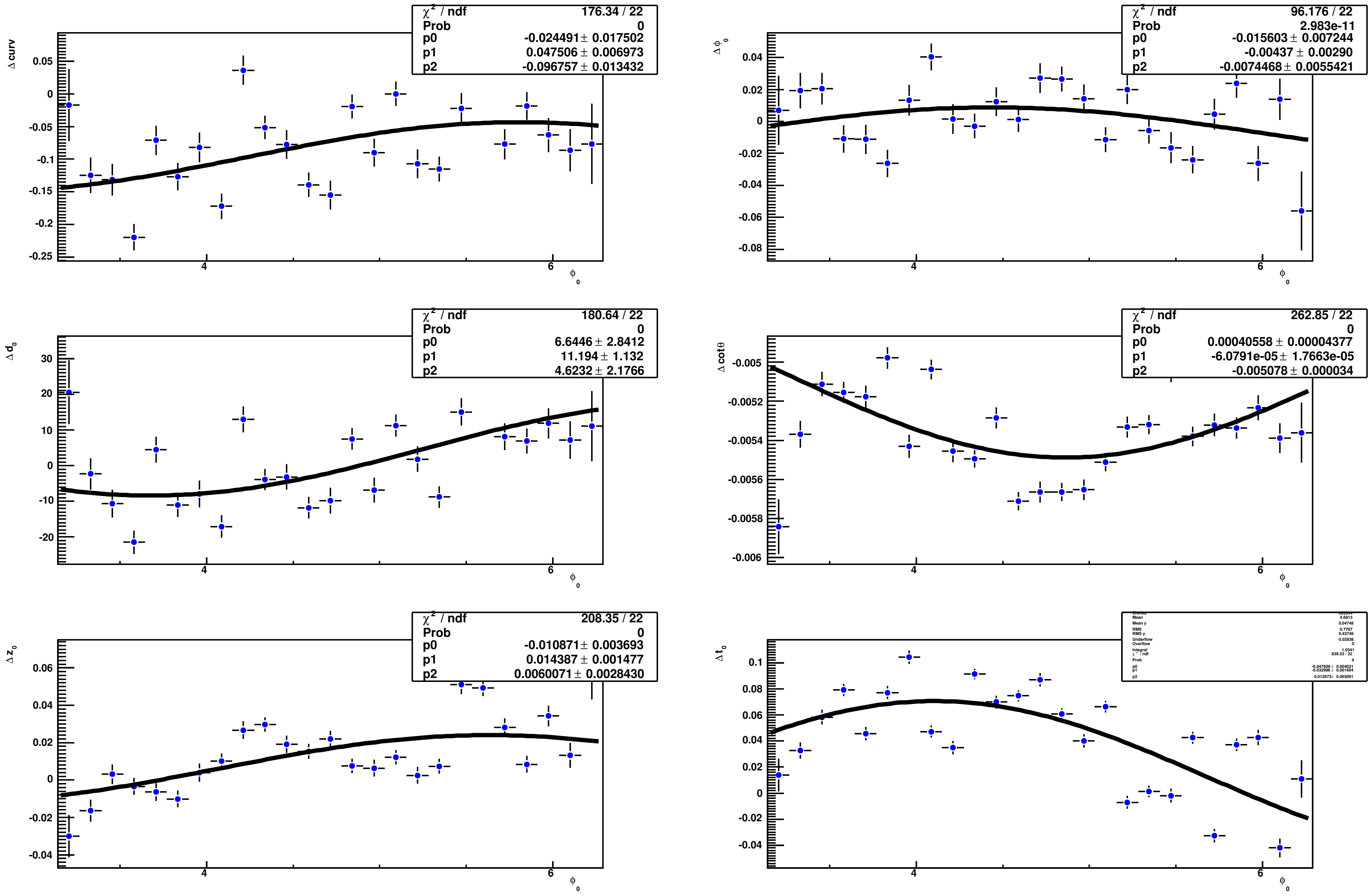


Entries 203368
Mean -0.079605
RMS 1.8925
Underflow 6.152
Overflow 3.576
Integral 1.7929e+05
cosmics
Δ(TeV/p_T)
Entries 203368
Mean 0.0040961
RMS 0.78977
Underflow 3.576
Overflow 3.364
Integral 1.7929e+05
cosmics
Δφ_0 (mrad)
Entries 203368
Mean -0.30206
RMS 308.08
Underflow 2.788
Overflow 0
Integral 1.793e+05
cosmics
Δd_0 (μm)
Entries 203368
Mean -0.0053679
RMS 0.0047699
Underflow 0
Overflow 1
Integral 1.7929e+05
cosmics
Δcotθ
Entries 203368
Mean 0.013685
RMS 0.39922
Underflow 3.576
Overflow 1.576
Integral 1.793e+05
cosmics
Δz_0 (cm)
Entries 203368
Mean 0.04748
RMS 0.43745
Underflow 5.94
Overflow 6.152
Integral 1.7929e+05
cosmics
Δt_0 (ns)

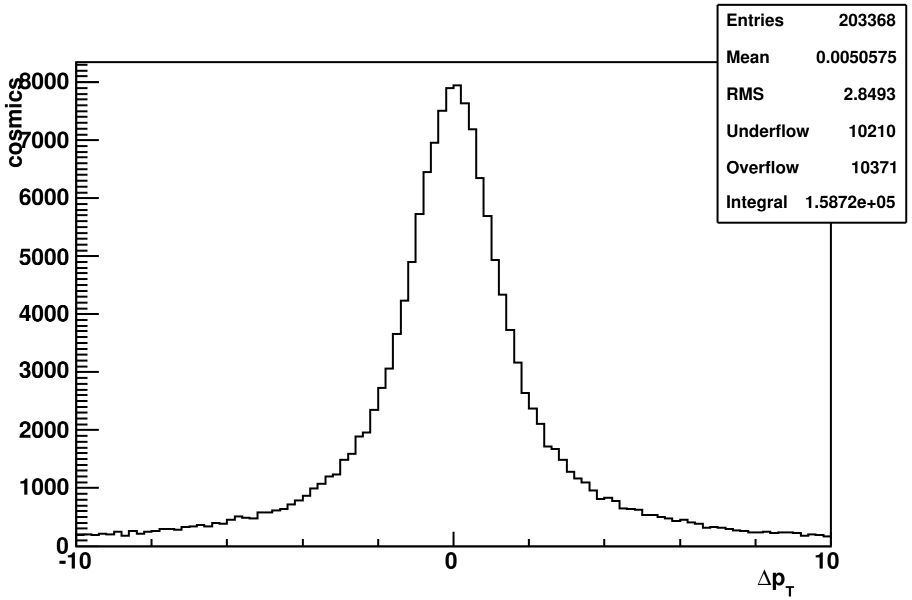

χ² / ndf 29.106 / 21
Prob 0.11148
p0 -0.092138 ± 0.006201
p1 -0.00029909 ± 0.00013597
p2 2.4019e-06 ± 8.9763e-07
p3 -4.6405e-08 ± 1.2047e-08
Δ(TeV/p_T)
z_0
χ² / ndf 38.811 / 19
Prob 0.0046717
p0 0.0089406 ± 0.0086318
p1 -0.0080906 ± 0.0103536
Δφ_0 (mrad)
χ² / ndf 207.78 / 21
Prob 0
p0 -3.5206 ± 1.0088
p1 0.11722 ± 0.02213
p2 0.00065012 ± 0.00014688
p3 -2.1546e-05 ± 1.9721e-06
Δd_0 (μm)
χ² / ndf 226.6 / 23
Prob 0
p0 1.2365e-05 ± 3.9092e-05
p1 -0.0069527 ± 0.0000479
Δcotθ
Δz_0 (cm)
Δt_0 (ns)

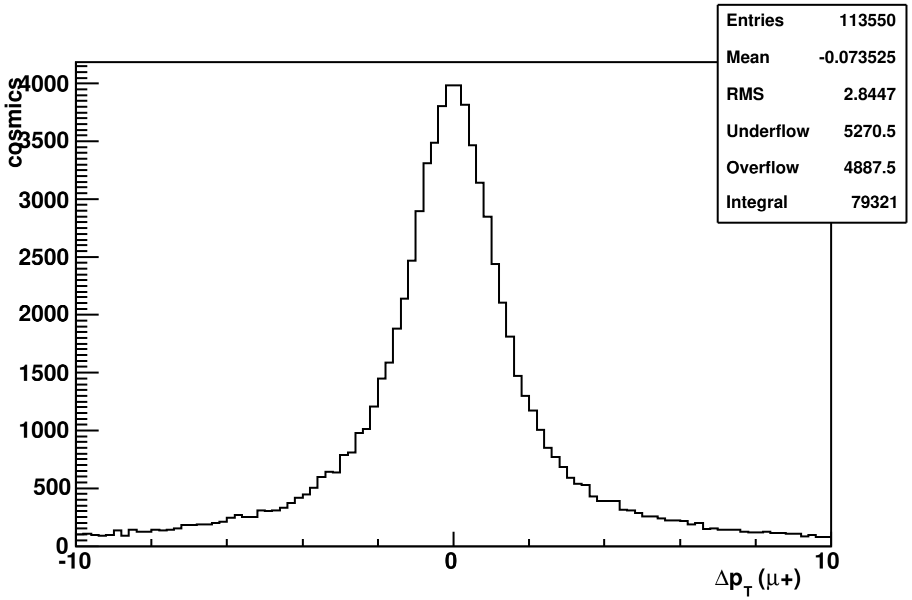


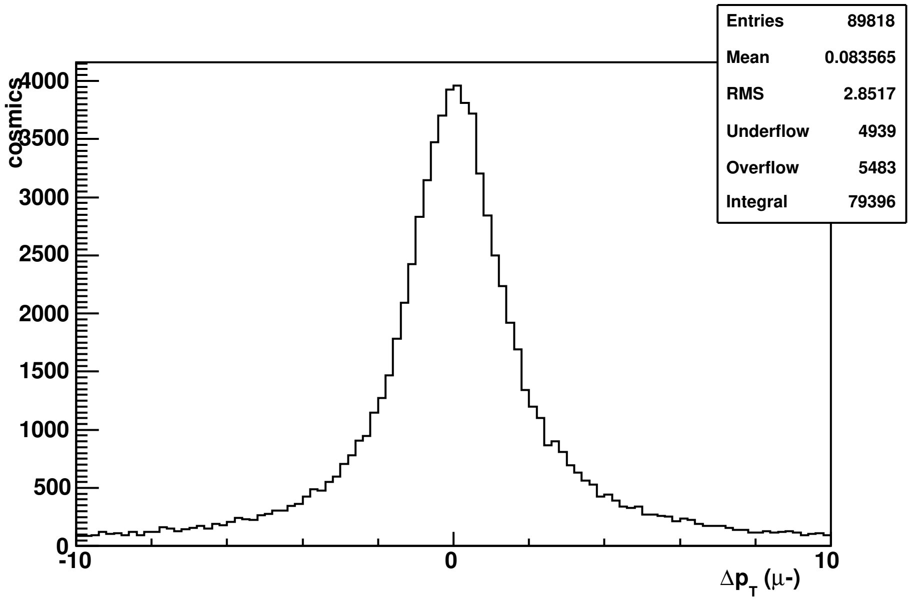
χ² / ndf 18.003 / 21
Prob 0.64881
p0 -0.065931 ± 0.005449
p1 -0.018922 ± 0.022439
p2 -0.13464 ± 0.03033
p3 0.029413 ± 0.056014
Δ(TeV/p_T)
cotθ
Δφ_0 (mrad)
cotθ
χ² / ndf 13.748 / 21
Prob 0.88017
p0 7.2463 ± 0.8876
p1 -1.6719 ± 3.6407
p2 -76.559 ± 4.912
p3 5.8981 ± 9.0771
Δd_0 (μm)
cotθ
Δcotθ
cotθ
Δz_0 (cm)
cotθ
Δt_0 (ns)
cotθ

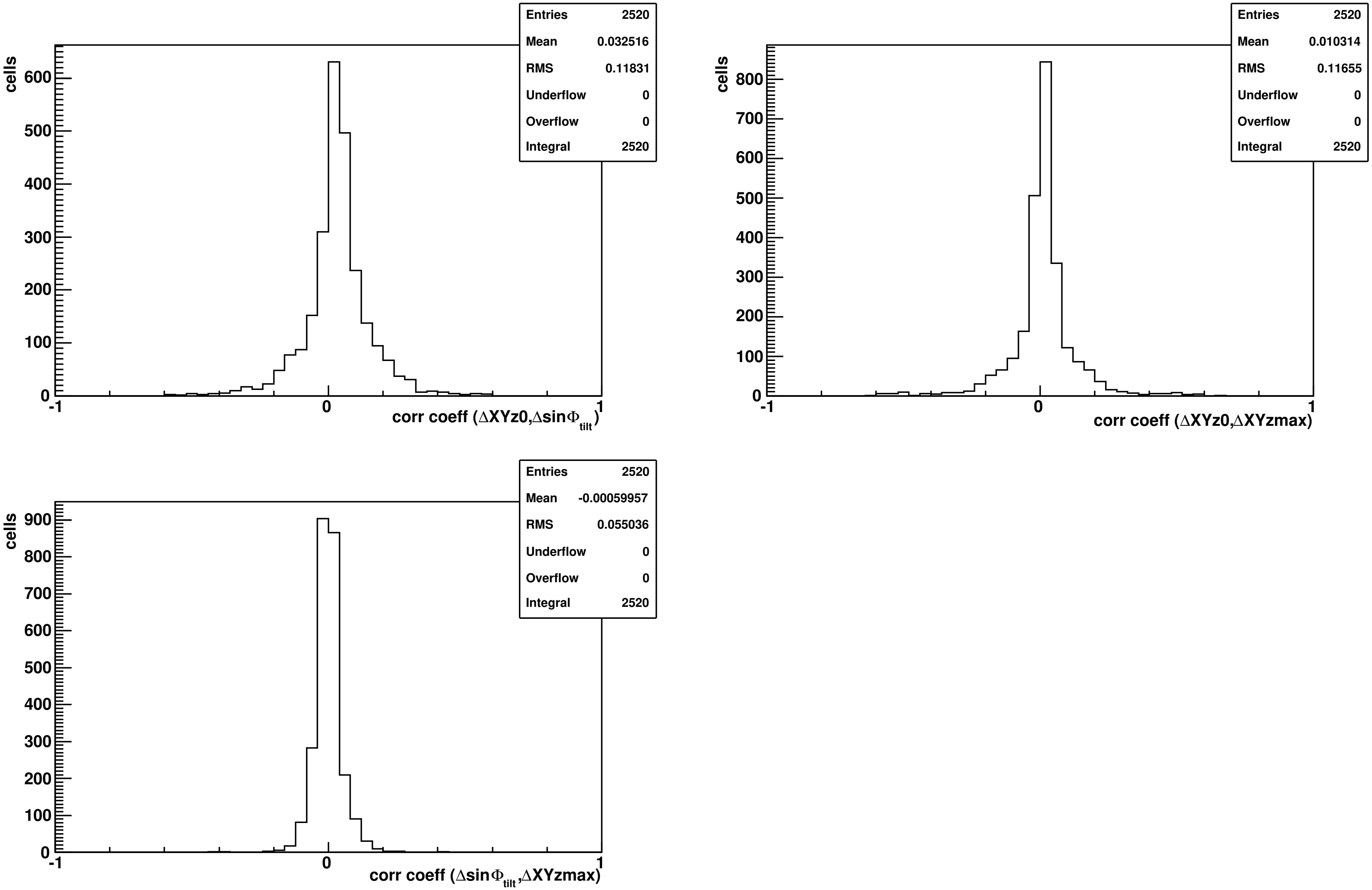


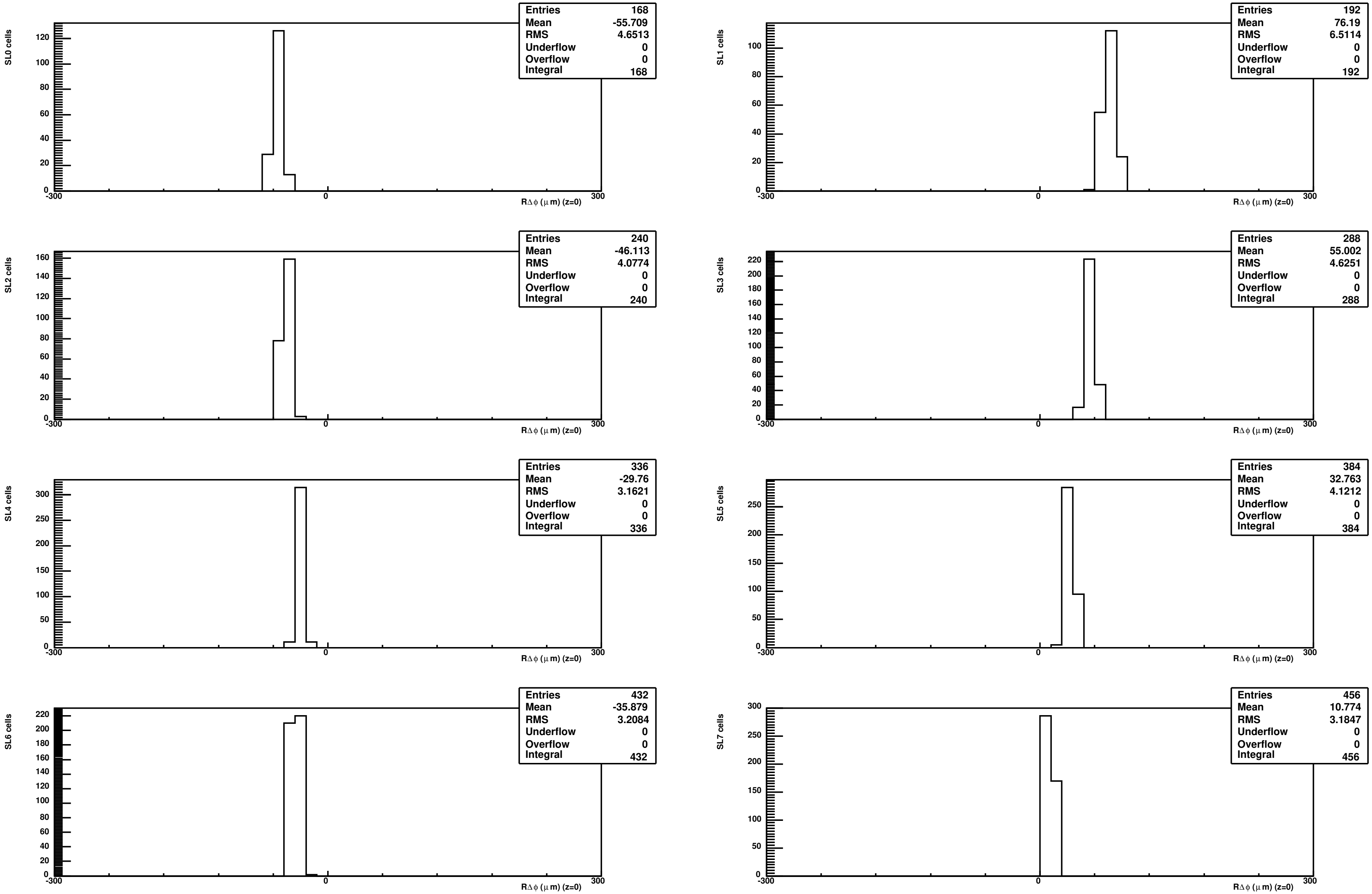
χ² / ndf 176.34 / 22
Prob 0
p0 -0.024491 ± 0.017502
p1 0.047506 ± 0.006973
p2 -0.096757 ± 0.013432
Δ curv
φ0
χ² / ndf 96.176 / 22
Prob 2.983e-11
p0 -0.015603 ± 0.007244
p1 -0.00437 ± 0.00290
p2 -0.0074468 ± 0.0055421
Δ φ0
φ0
χ² / ndf 180.64 / 22
Prob 0
p0 6.6446 ± 2.8412
p1 11.194 ± 1.132
p2 4.6232 ± 2.1766
Δ d0
φ0
χ² / ndf 262.85 / 22
Prob 0
p0 0.00040558 ± 0.00004377
p1 -6.0791e-05 ± 1.7663e-05
p2 -0.005078 ± 0.000034
Δ cotθ
φ0
χ² / ndf 208.35 / 22
Prob 0
p0 -0.010871 ± 0.003693
p1 0.014387 ± 0.001477
p2 0.0060071 ± 0.0028430
Δ z0
φ0
Mean 4.6913
Mean y 0.04748
RMS 0.7767
RMS y 0.43746
Underflow 0.02838
Overflow 0
Integral 1.0341
χ² / ndf 639.53 / 22
Prob 0
p0 -0.047609 ± 0.004031
p1 -0.032998 ± 0.001604
p2 0.012673 ± 0.003091
Δ t0
φ0


Entries 203368
Mean 0.0050575
RMS 2.8493
Underflow 10210
Overflow 10371
Integral 1.5872e+05
cosmics
Δp_T

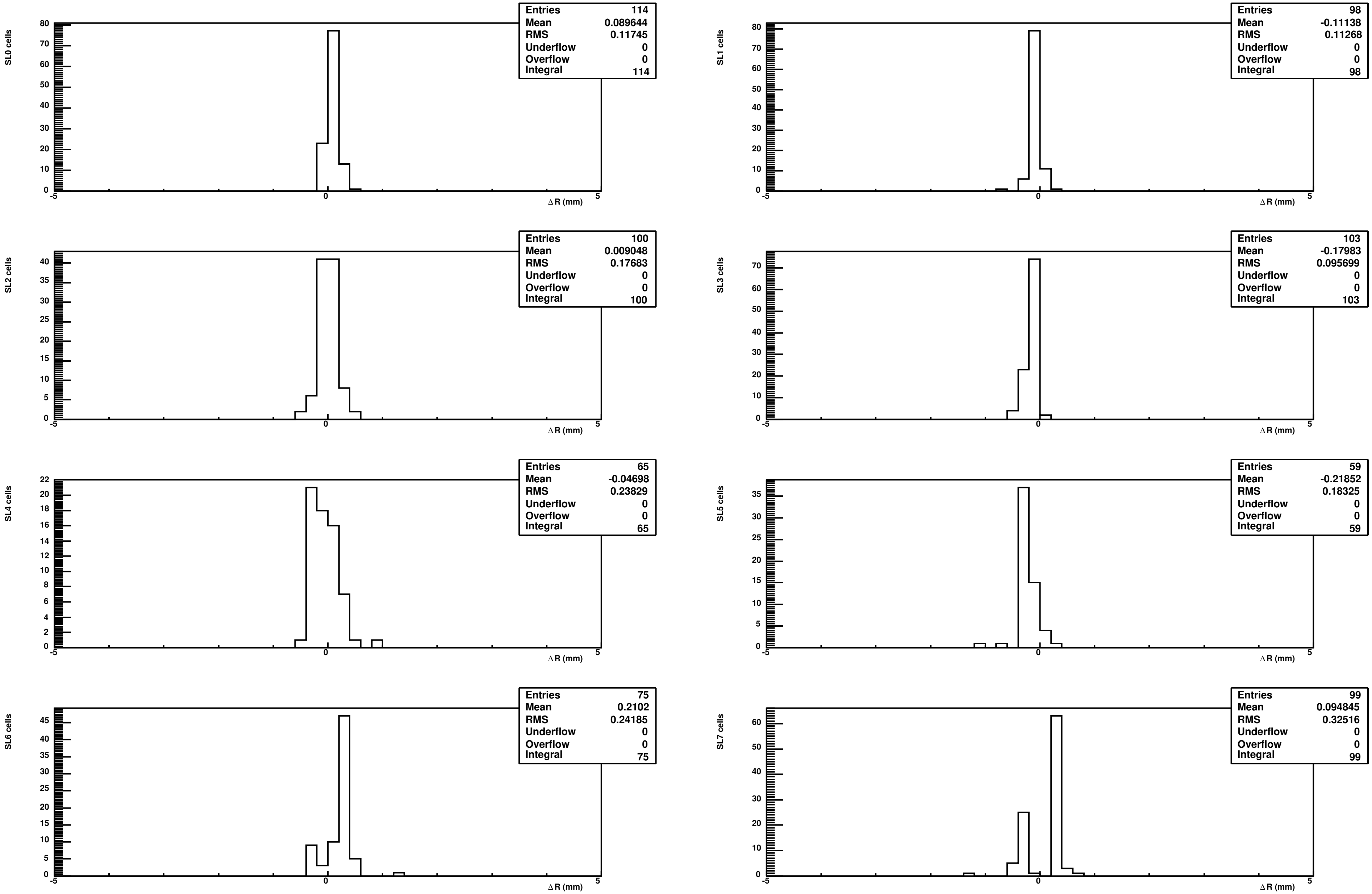

Entries 113550
Mean -0.073525
RMS 2.8447
Underflow 5270.5
Overflow 4887.5
Integral 79321
cosmics
Δp_T (μ+)

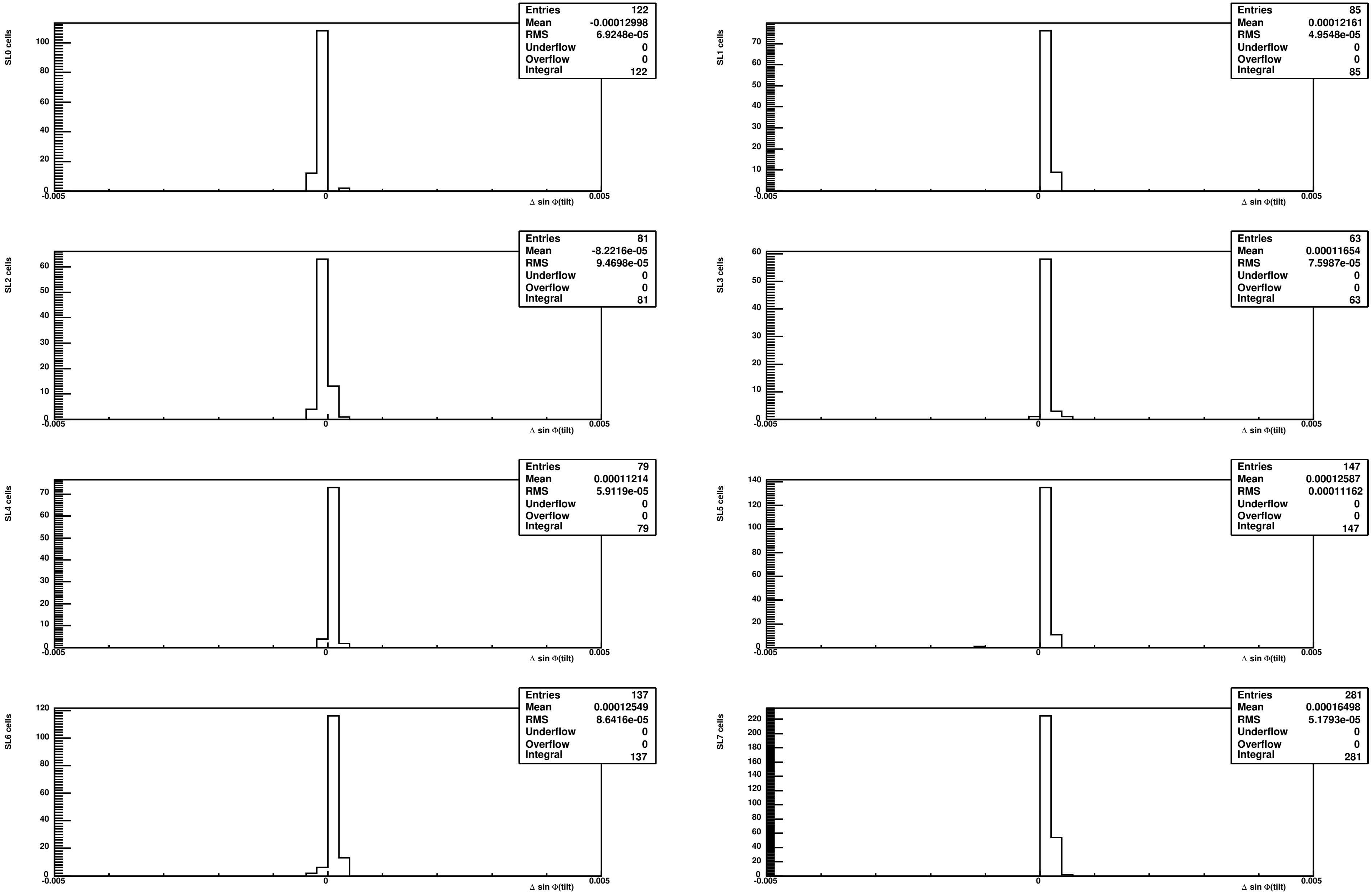

Entries 89818
Mean 0.083565
RMS 2.8517
Underflow 4939
Overflow 5483
Integral 79396
cosmics
Δp_T (μ-)

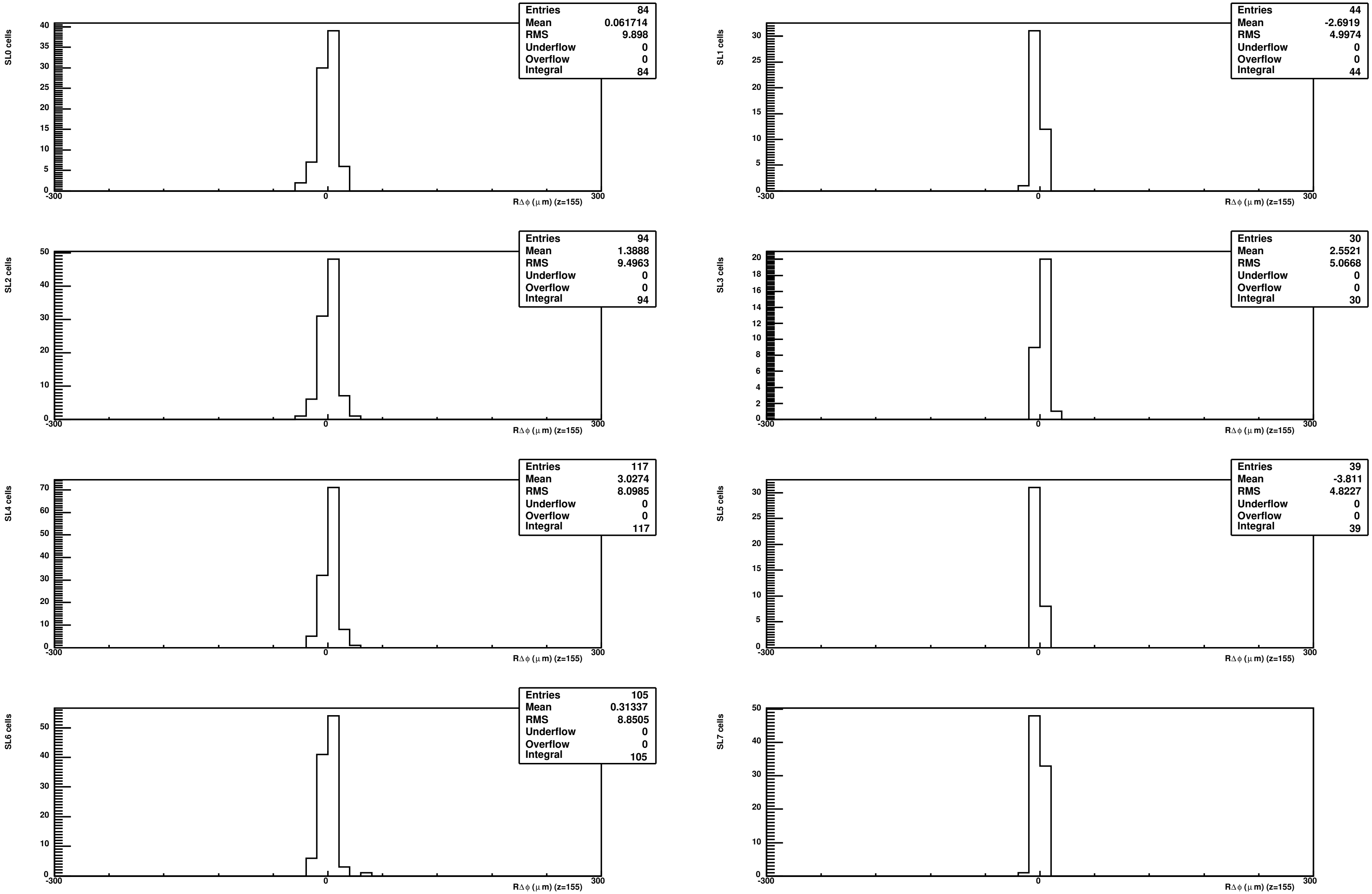

Entries 2520
Mean 0.032516
RMS 0.11831
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔsinΦ tilt)
Entries 2520
Mean 0.010314
RMS 0.11655
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔXYz0,ΔXYzmax)
Entries 2520
Mean -0.00059957
RMS 0.055036
Underflow 0
Overflow 0
Integral 2520
cells
corr coeff (ΔsinΦ tilt,ΔXYzmax)

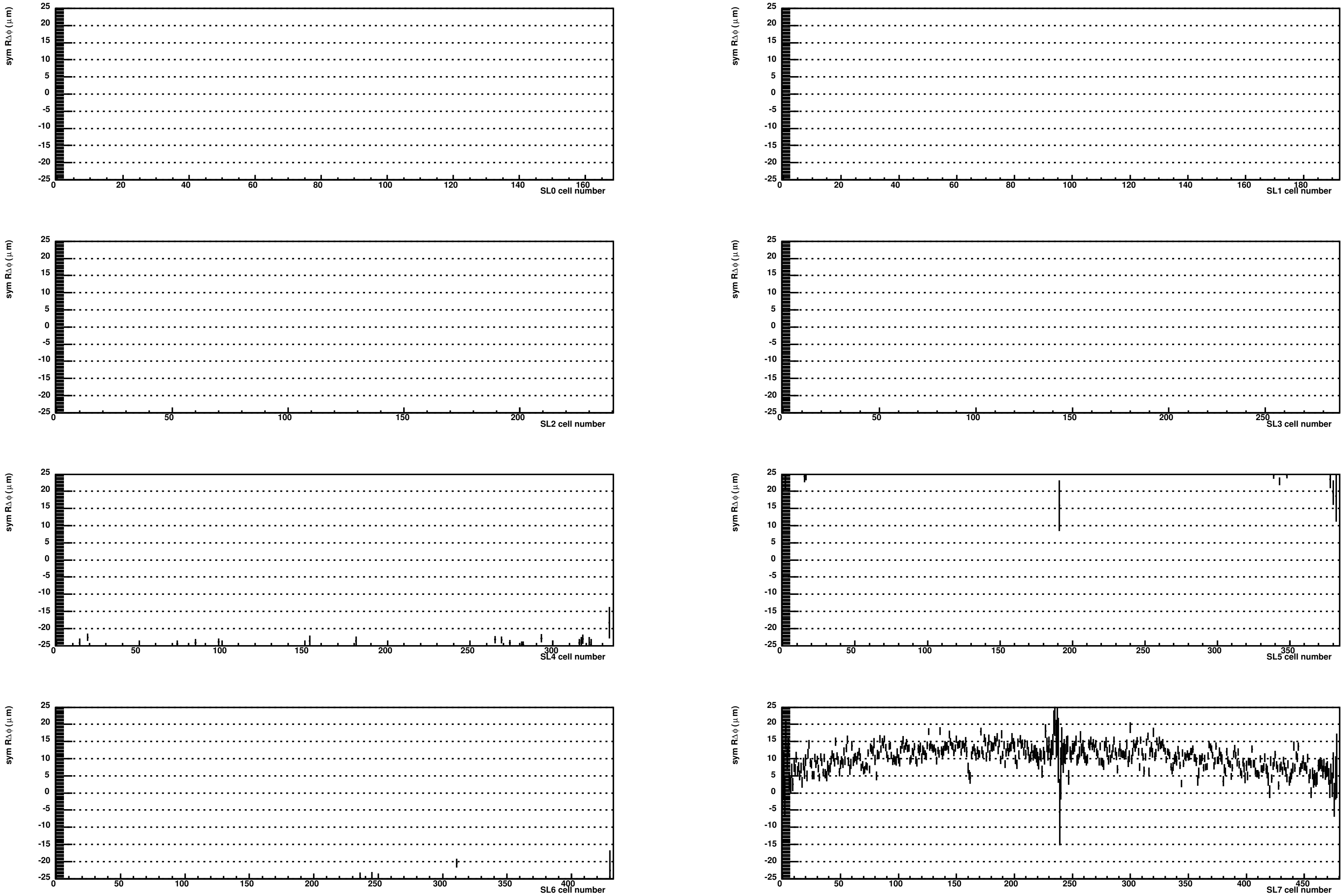


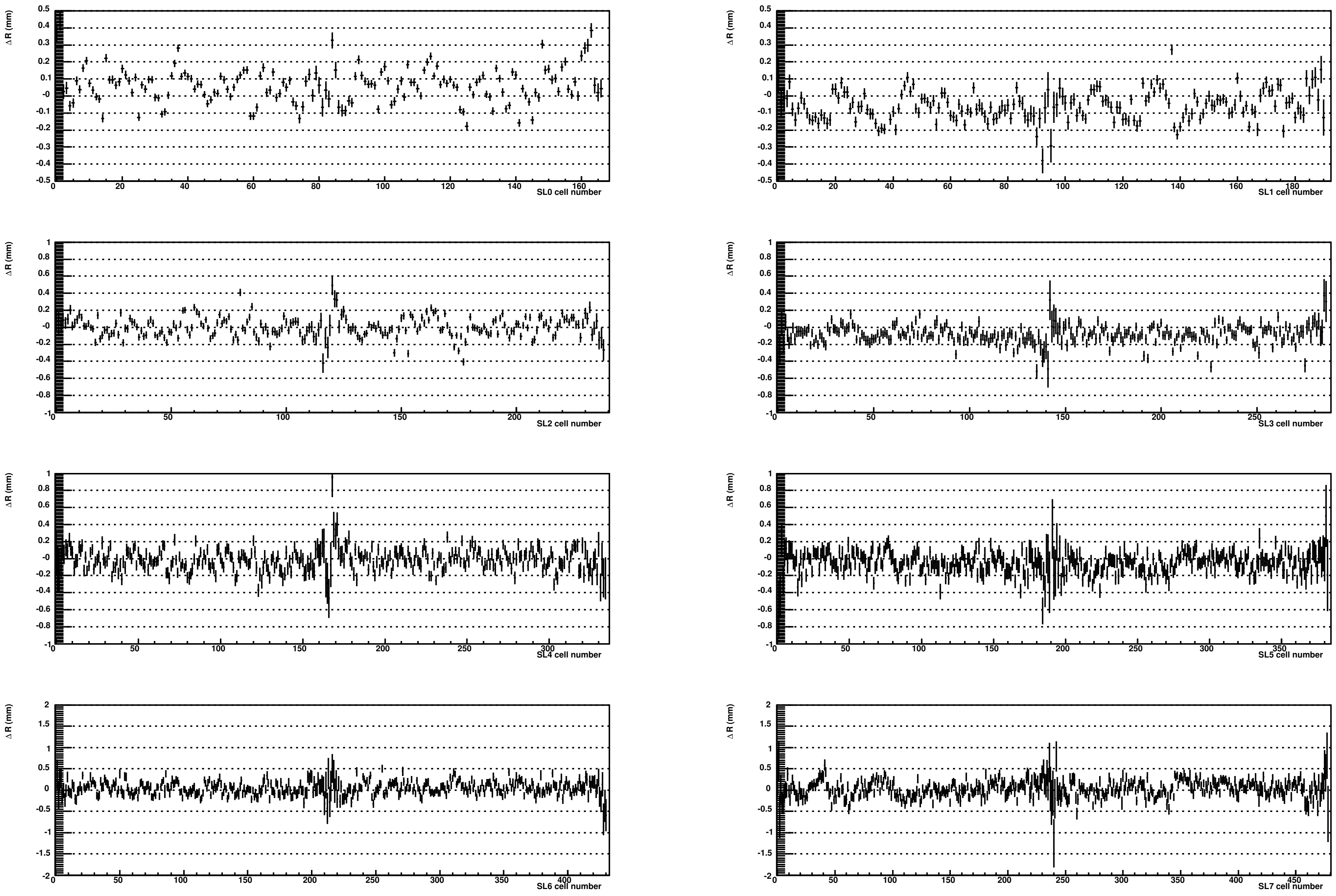
SL0 cells
Entries 168
Mean -55.709
RMS 4.6513
Underflow 0
Overflow 0
Integral 168
RΔφ (μ m) (z=0)
SL1 cells
Entries 192
Mean 76.19
RMS 6.5114
Underflow 0
Overflow 0
Integral 192
RΔφ (μ m) (z=0)
SL2 cells
Entries 240
Mean -46.113
RMS 4.0774
Underflow 0
Overflow 0
Integral 240
RΔφ (μ m) (z=0)
SL3 cells
Entries 288
Mean 55.002
RMS 4.6251
Underflow 0
Overflow 0
Integral 288
RΔφ (μ m) (z=0)
SL4 cells
Entries 336
Mean -29.76
RMS 3.1621
Underflow 0
Overflow 0
Integral 336
RΔφ (μ m) (z=0)
SL5 cells
Entries 384
Mean 32.763
RMS 4.1212
Underflow 0
Overflow 0
Integral 384
RΔφ (μ m) (z=0)
SL6 cells
Entries 432
Mean -35.879
RMS 3.2084
Underflow 0
Overflow 0
Integral 432
RΔφ (μ m) (z=0)
SL7 cells
Entries 456
Mean 10.774
RMS 3.1847
Underflow 0
Overflow 0
Integral 456
RΔφ (μ m) (z=0)

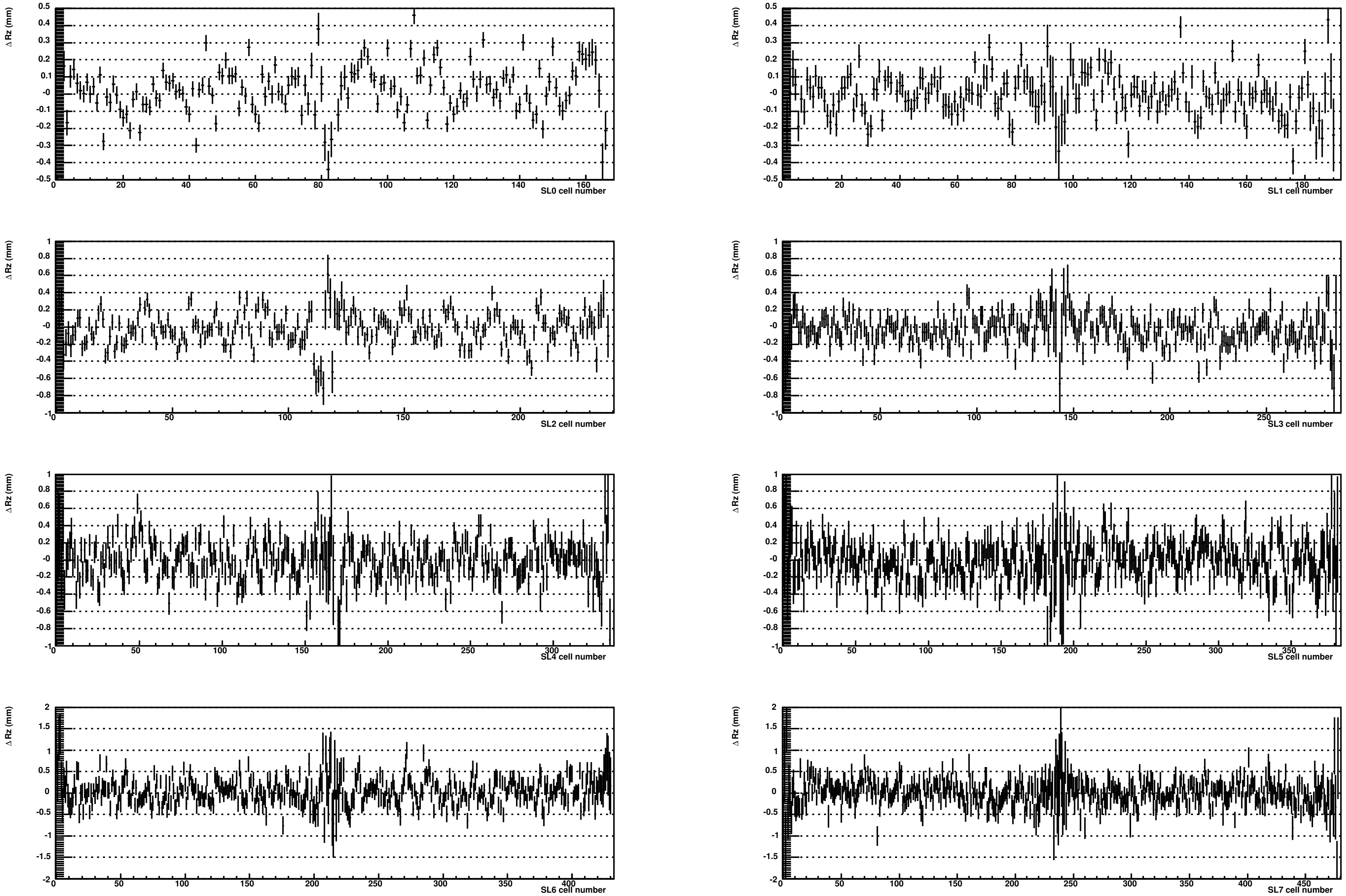

SL0 cells
Entries 114
Mean 0.089644
RMS 0.11745
Underflow 0
Overflow 0
Integral 114
ΔR (mm)
SL1 cells
Entries 98
Mean -0.11138
RMS 0.11268
Underflow 0
Overflow 0
Integral 98
ΔR (mm)
SL2 cells
Entries 100
Mean 0.009048
RMS 0.17683
Underflow 0
Overflow 0
Integral 100
ΔR (mm)
SL3 cells
Entries 103
Mean -0.17983
RMS 0.095699
Underflow 0
Overflow 0
Integral 103
ΔR (mm)
SL4 cells
Entries 65
Mean -0.04698
RMS 0.23829
Underflow 0
Overflow 0
Integral 65
ΔR (mm)
SL5 cells
Entries 59
Mean -0.21852
RMS 0.18325
Underflow 0
Overflow 0
Integral 59
ΔR (mm)
SL6 cells
Entries 75
Mean 0.2102
RMS 0.24185
Underflow 0
Overflow 0
Integral 75
ΔR (mm)
SL7 cells
Entries 99
Mean 0.094845
RMS 0.32516
Underflow 0
Overflow 0
Integral 99
ΔR (mm)

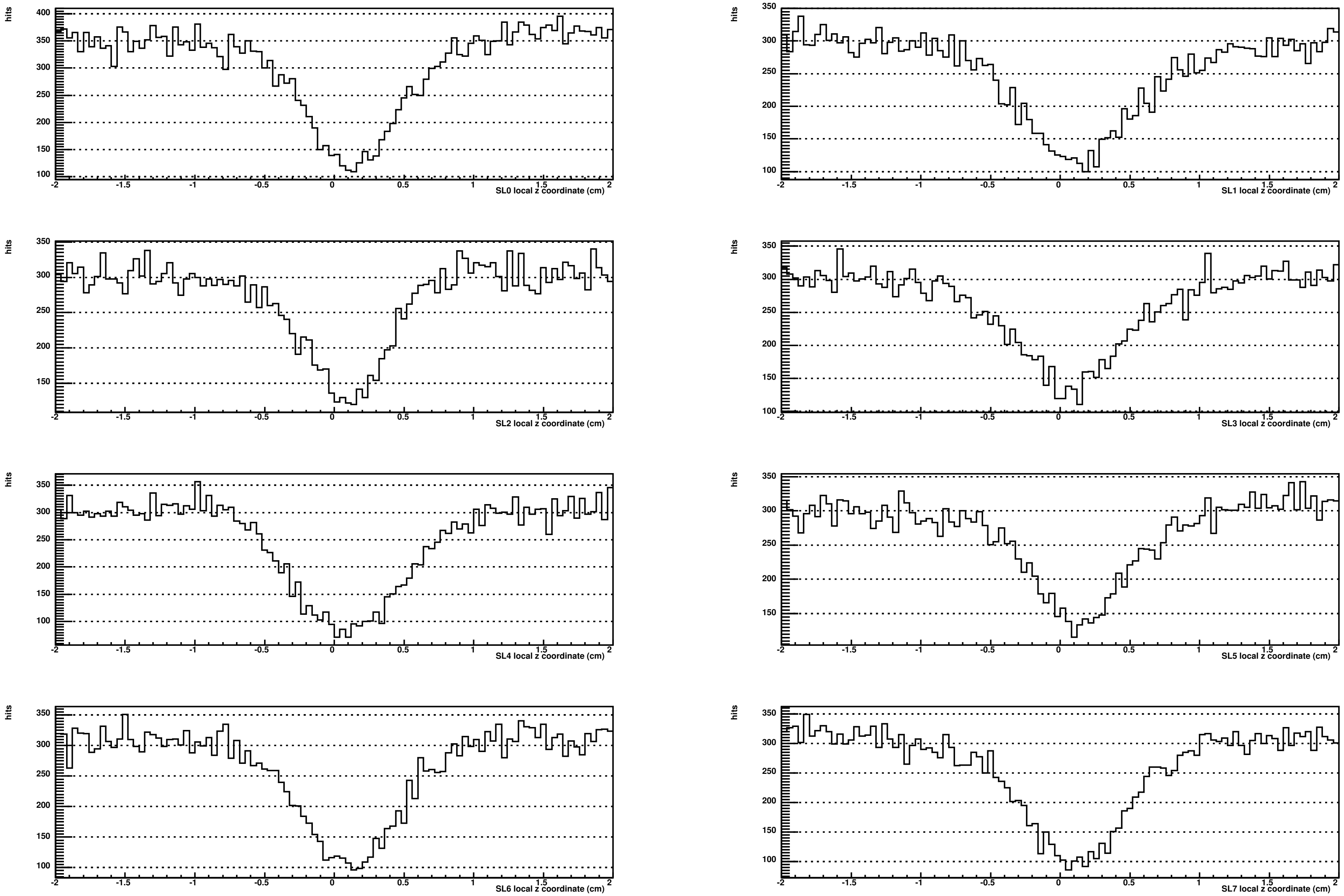

SL0 cells
Entries 122
Mean -0.00012998
RMS 6.9248e-05
Underflow 0
Overflow 0
Integral 122
SL1 cells
Entries 85
Mean 0.00012161
RMS 4.9548e-05
Underflow 0
Overflow 0
Integral 85
SL2 cells
Entries 81
Mean -8.2216e-05
RMS 9.4698e-05
Underflow 0
Overflow 0
Integral 81
SL3 cells
Entries 63
Mean 0.00011654
RMS 7.5987e-05
Underflow 0
Overflow 0
Integral 63
SL4 cells
Entries 79
Mean 0.00011214
RMS 5.9119e-05
Underflow 0
Overflow 0
Integral 79
SL5 cells
Entries 147
Mean 0.00012587
RMS 0.00011162
Underflow 0
Overflow 0
Integral 147
SL6 cells
Entries 137
Mean 0.00012549
RMS 8.6416e-05
Underflow 0
Overflow 0
Integral 137
SL7 cells
Entries 281
Mean 0.00016498
RMS 5.1793e-05
Underflow 0
Overflow 0
Integral 281
-0.005
0
0.005
Δ sin Φ(tilt)

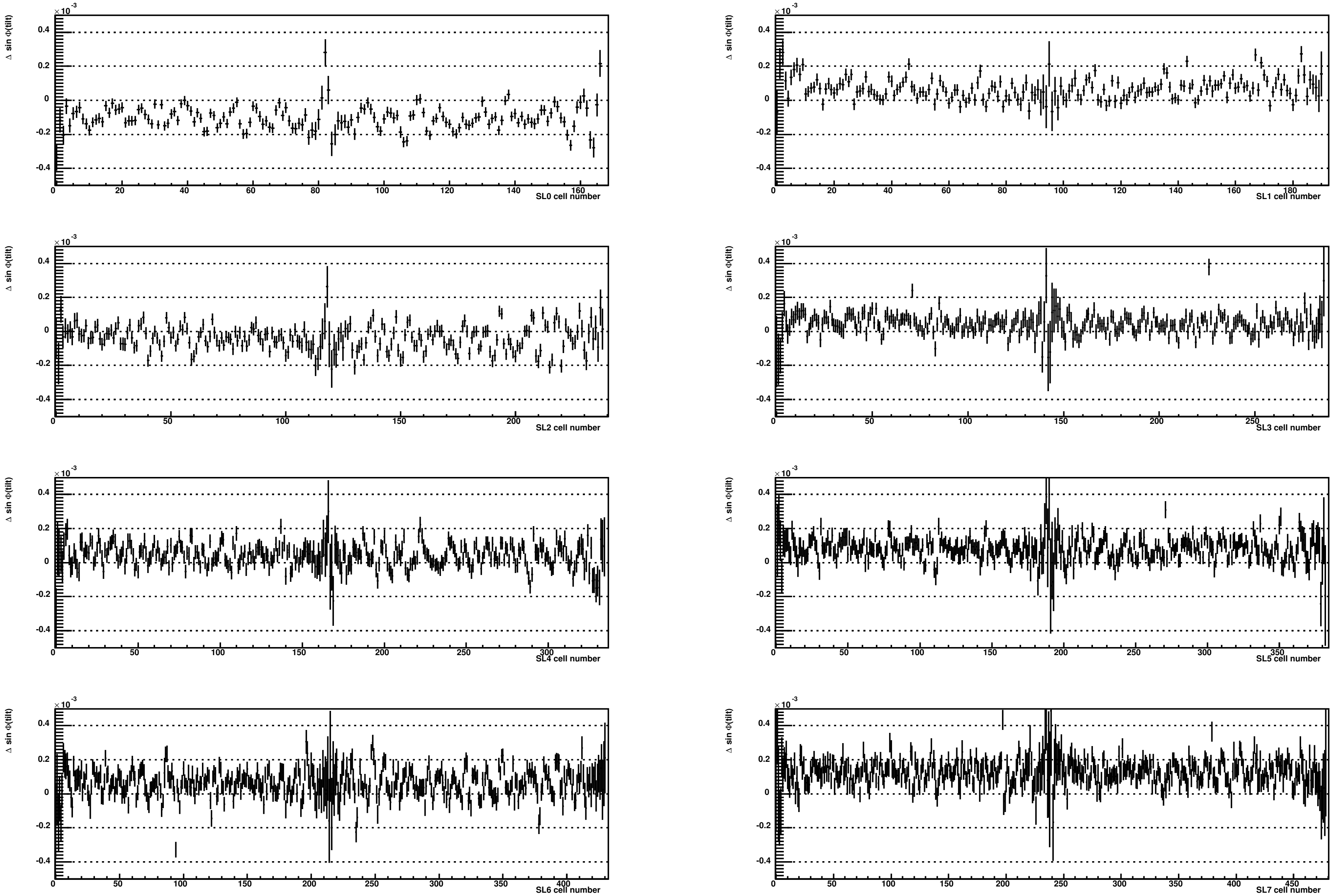

SL0 cells
Entries 84
Mean 0.061714
RMS 9.898
Underflow 0
Overflow 0
Integral 84
SL1 cells
Entries 44
Mean -2.6919
RMS 4.9974
Underflow 0
Overflow 0
Integral 44
SL2 cells
Entries 94
Mean 1.3888
RMS 9.4963
Underflow 0
Overflow 0
Integral 94
SL3 cells
Entries 30
Mean 2.5521
RMS 5.0668
Underflow 0
Overflow 0
Integral 30
SL4 cells
Entries 117
Mean 3.0274
RMS 8.0985
Underflow 0
Overflow 0
Integral 117
SL5 cells
Entries 39
Mean -3.811
RMS 4.8227
Underflow 0
Overflow 0
Integral 39
SL6 cells
Entries 105
Mean 0.31337
RMS 8.8505
Underflow 0
Overflow 0
Integral 105
SL7 cells
RΔφ (μm) (z=155)
-300
0
300


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

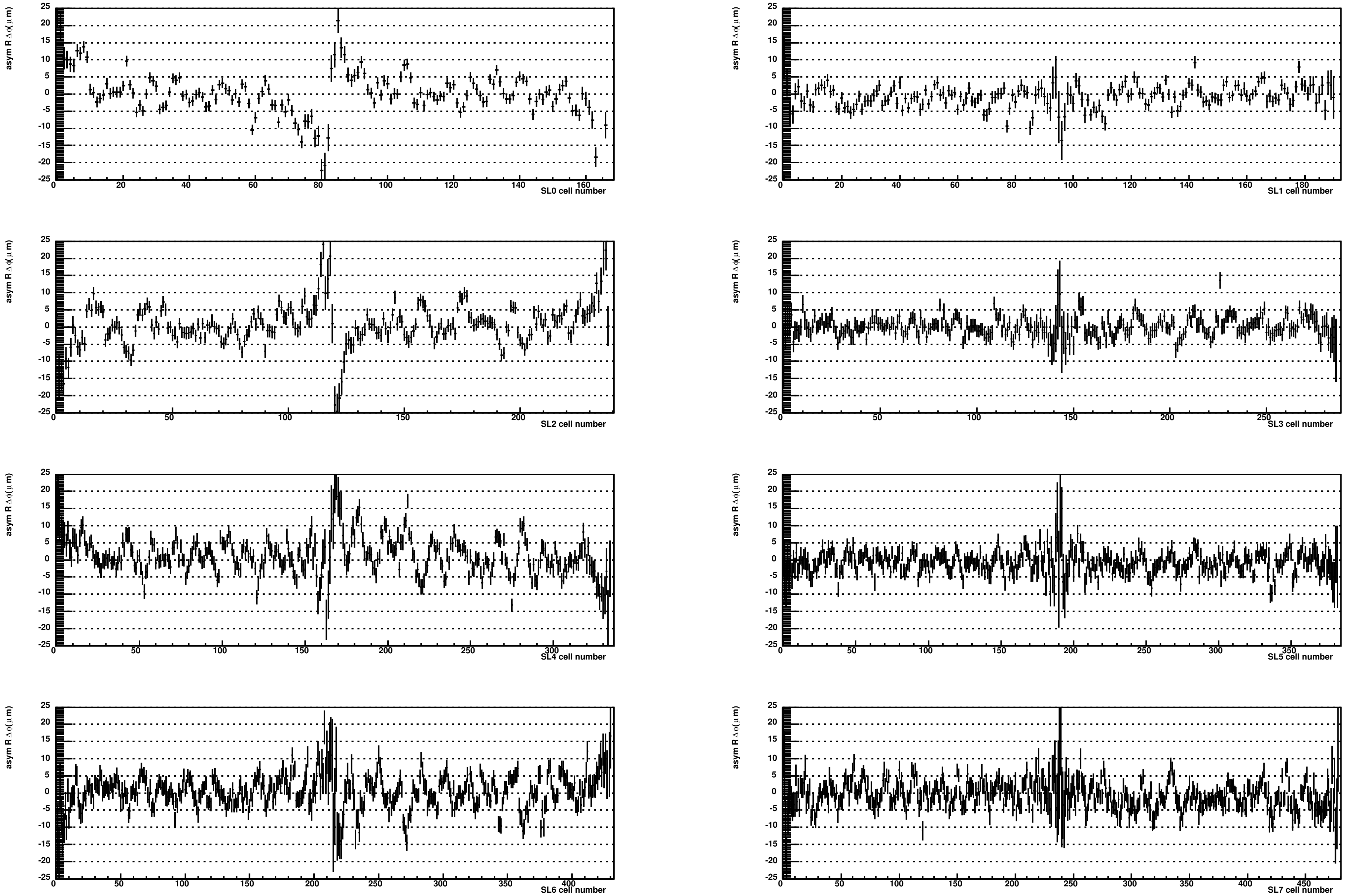

Δ R (mm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number

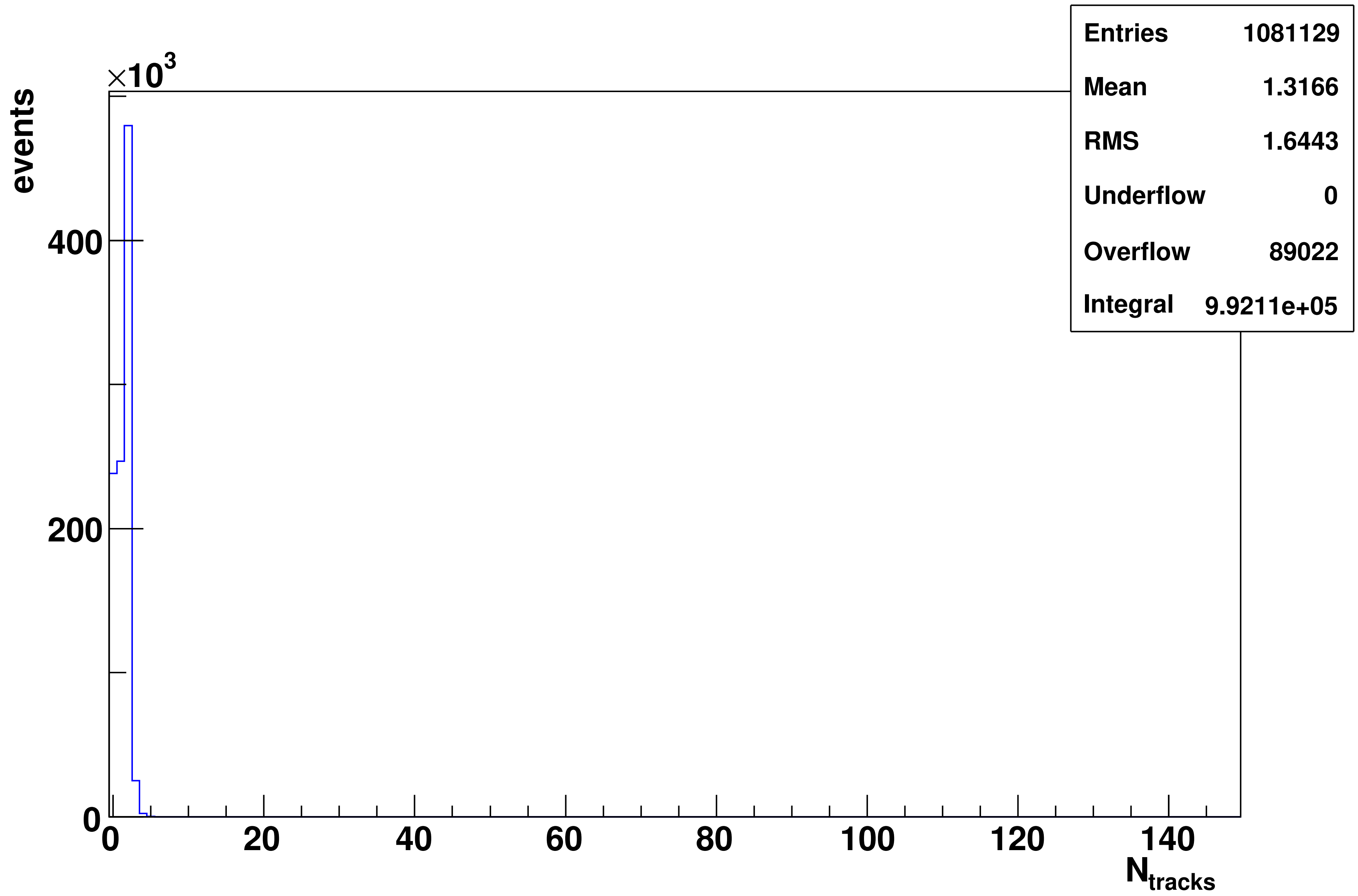

Δ Rz (mm)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number


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)

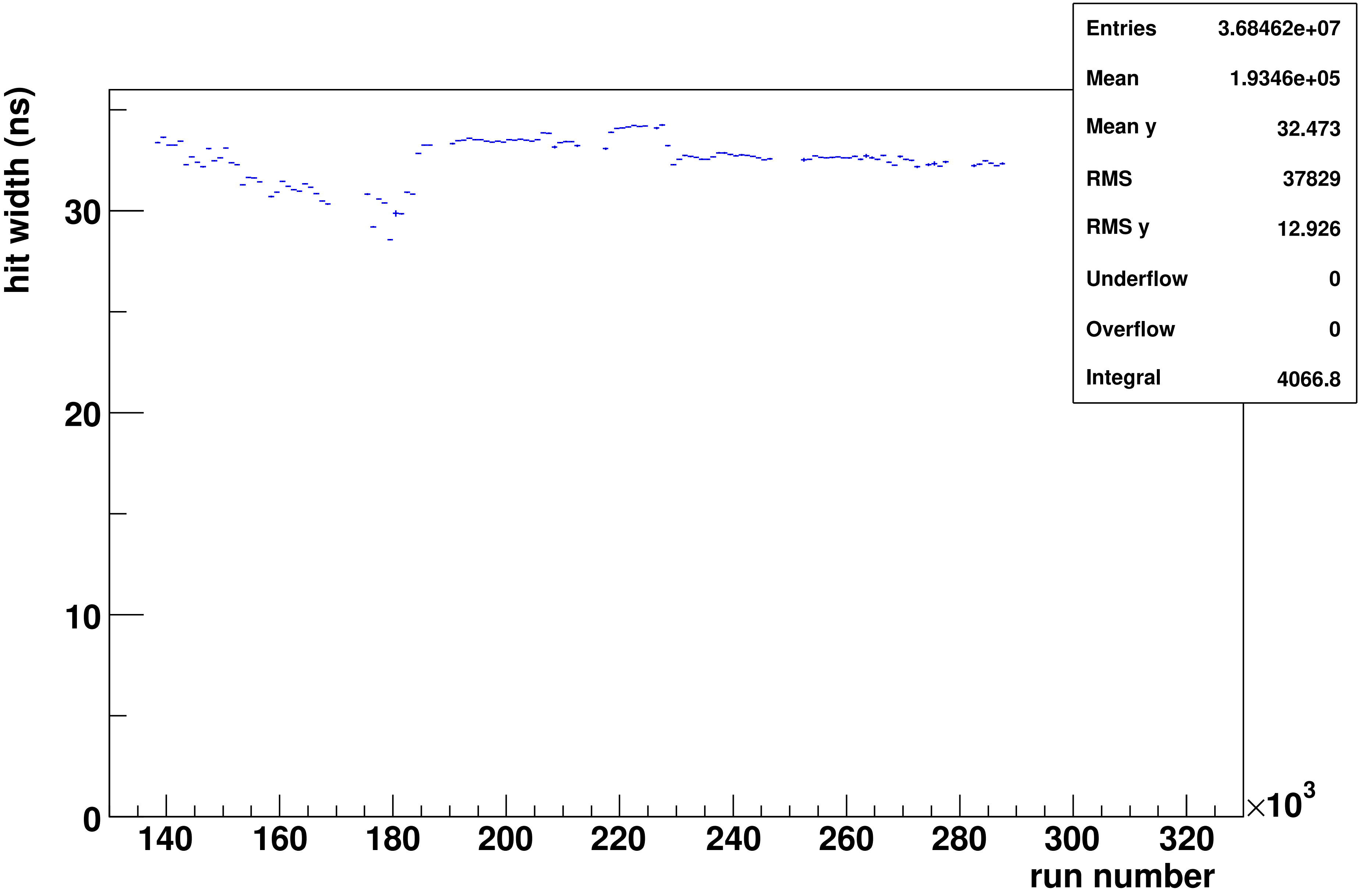


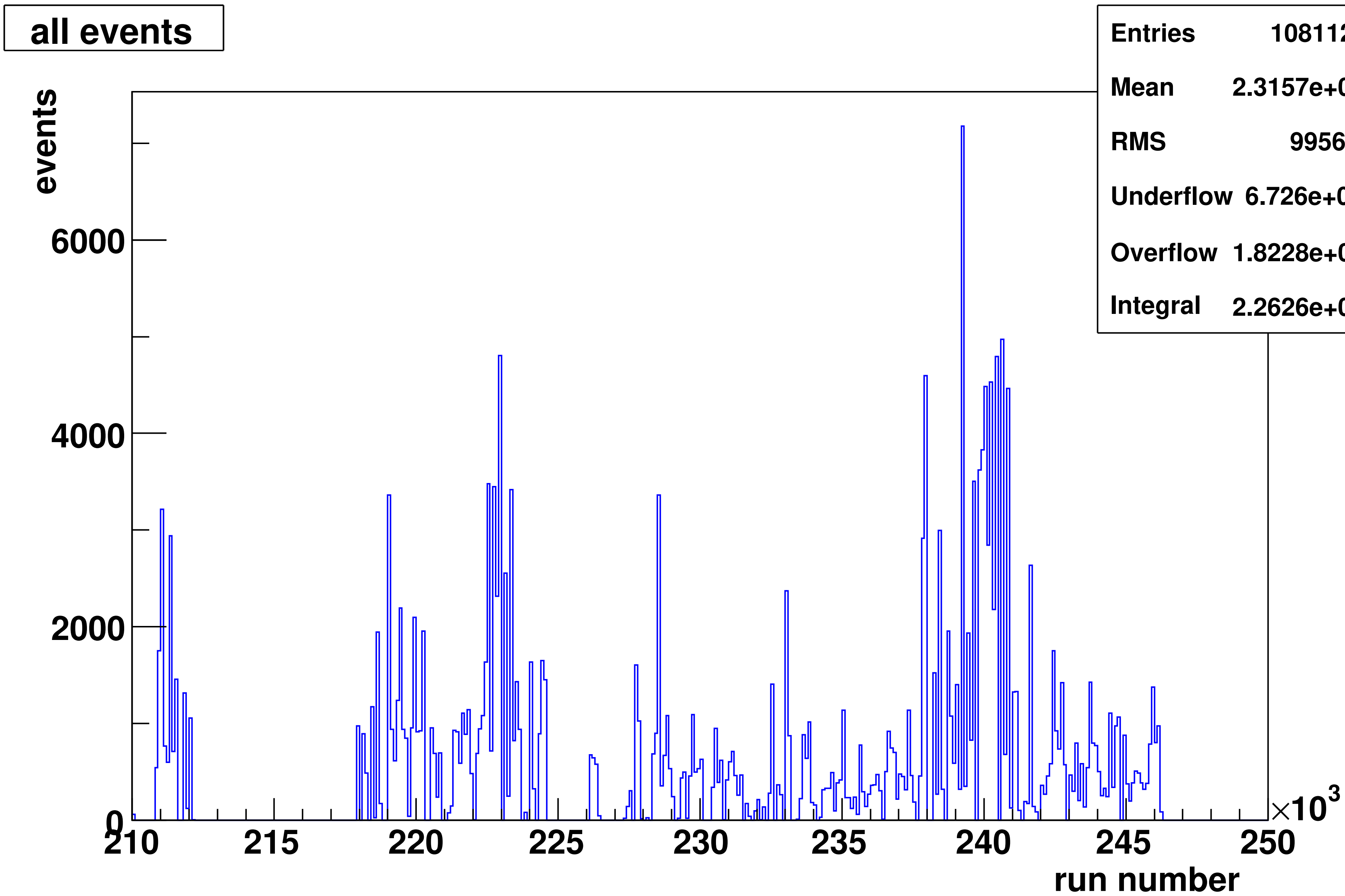
Δ sin Φ(tilt)
SL0 cell number
SL1 cell number
SL2 cell number
SL3 cell number
SL4 cell number
SL5 cell number
SL6 cell number
SL7 cell number


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

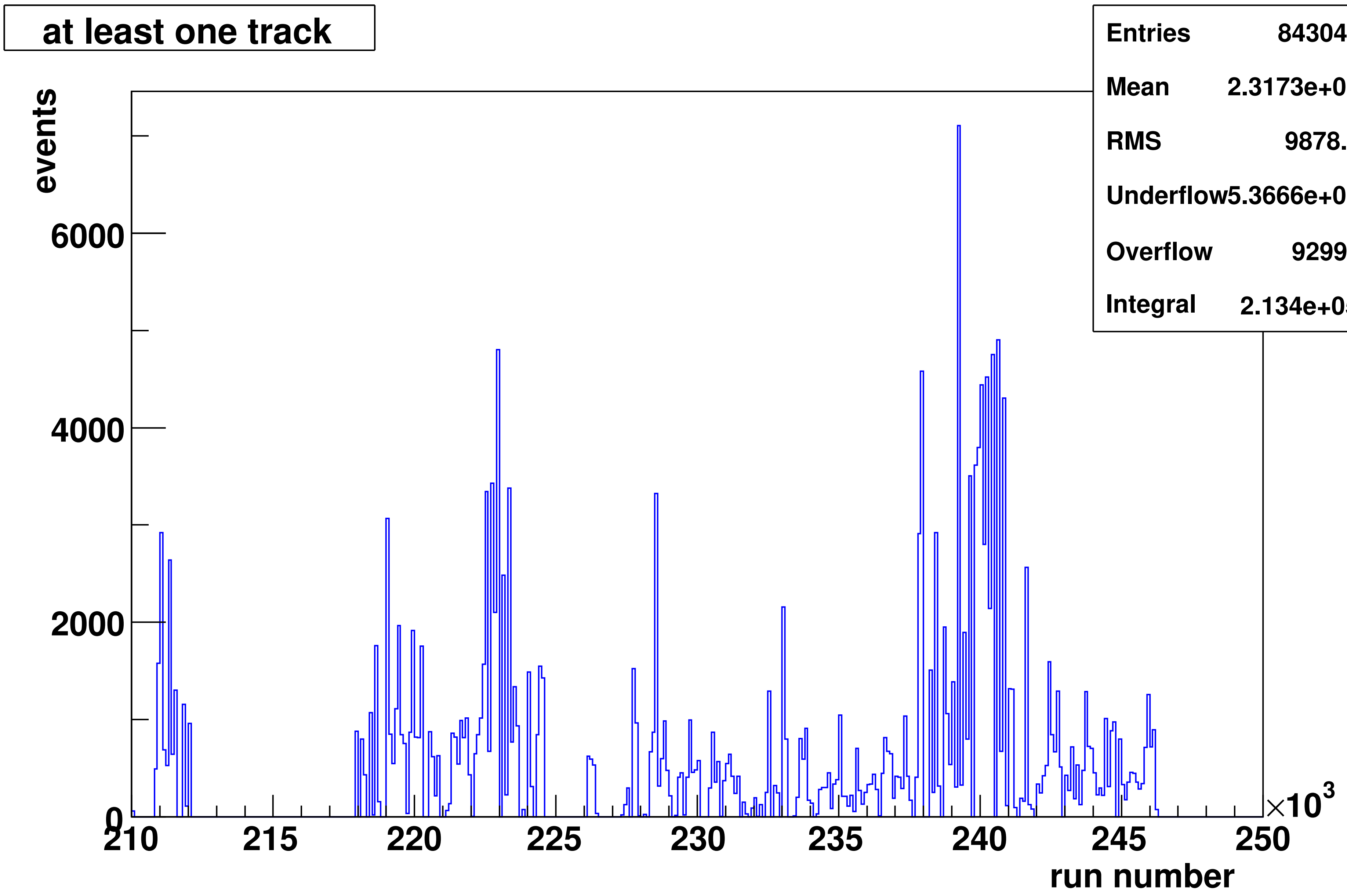


Entries 1081129
Mean 1.3166
RMS 1.6443
Underflow 0
Overflow 89022
Integral 9.9211e+05
×10^3
events
0
200
400
0
20
40
60
80
100
120
140
N_tracks

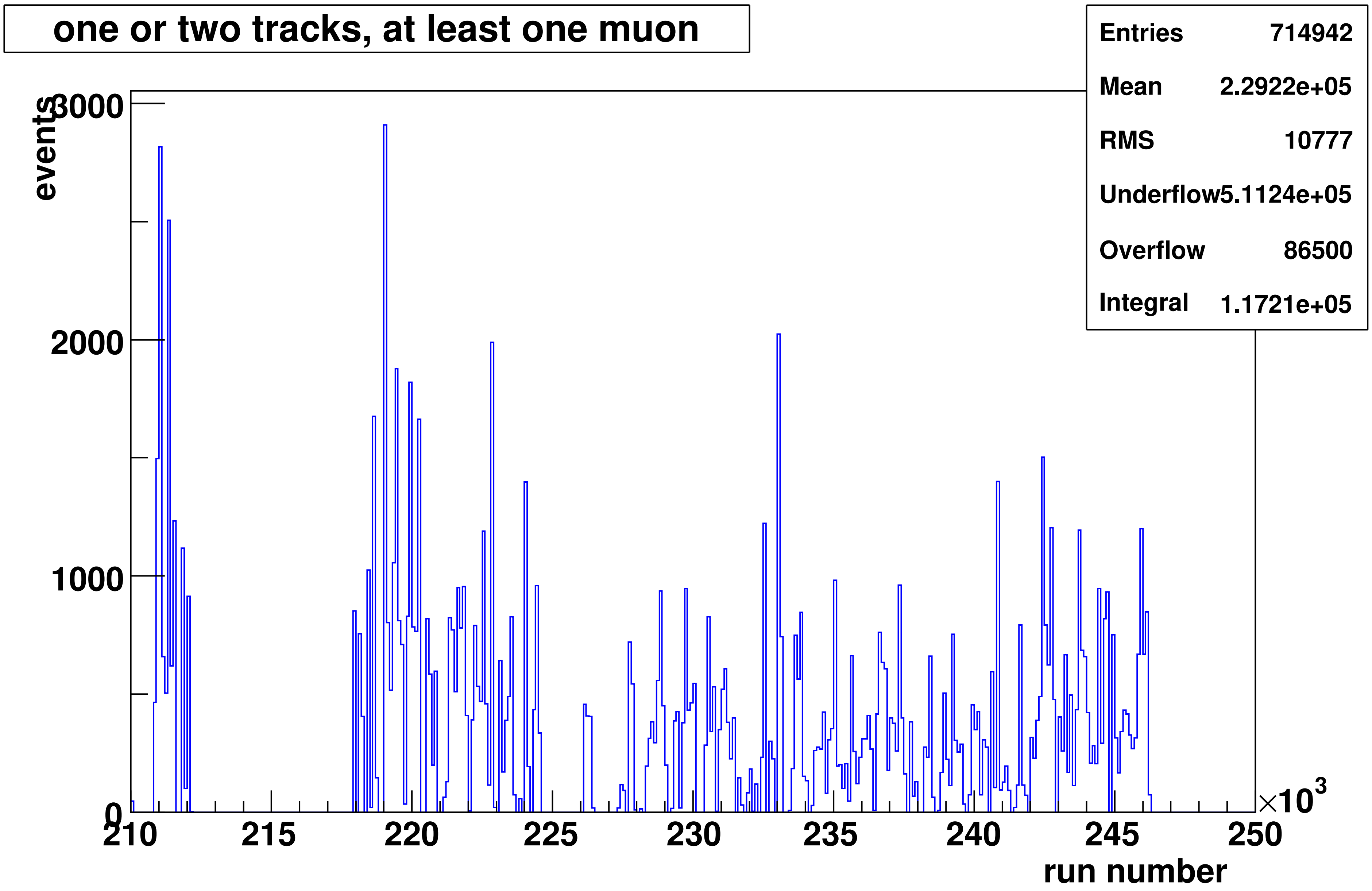

hit width (ns)
run number
$\times 10^3$
Entries 3.68462e+07
Mean 1.9346e+05
Mean y 32.473
RMS 37829
RMS y 12.926
Underflow 0
Overflow 0
Integral 4066.8

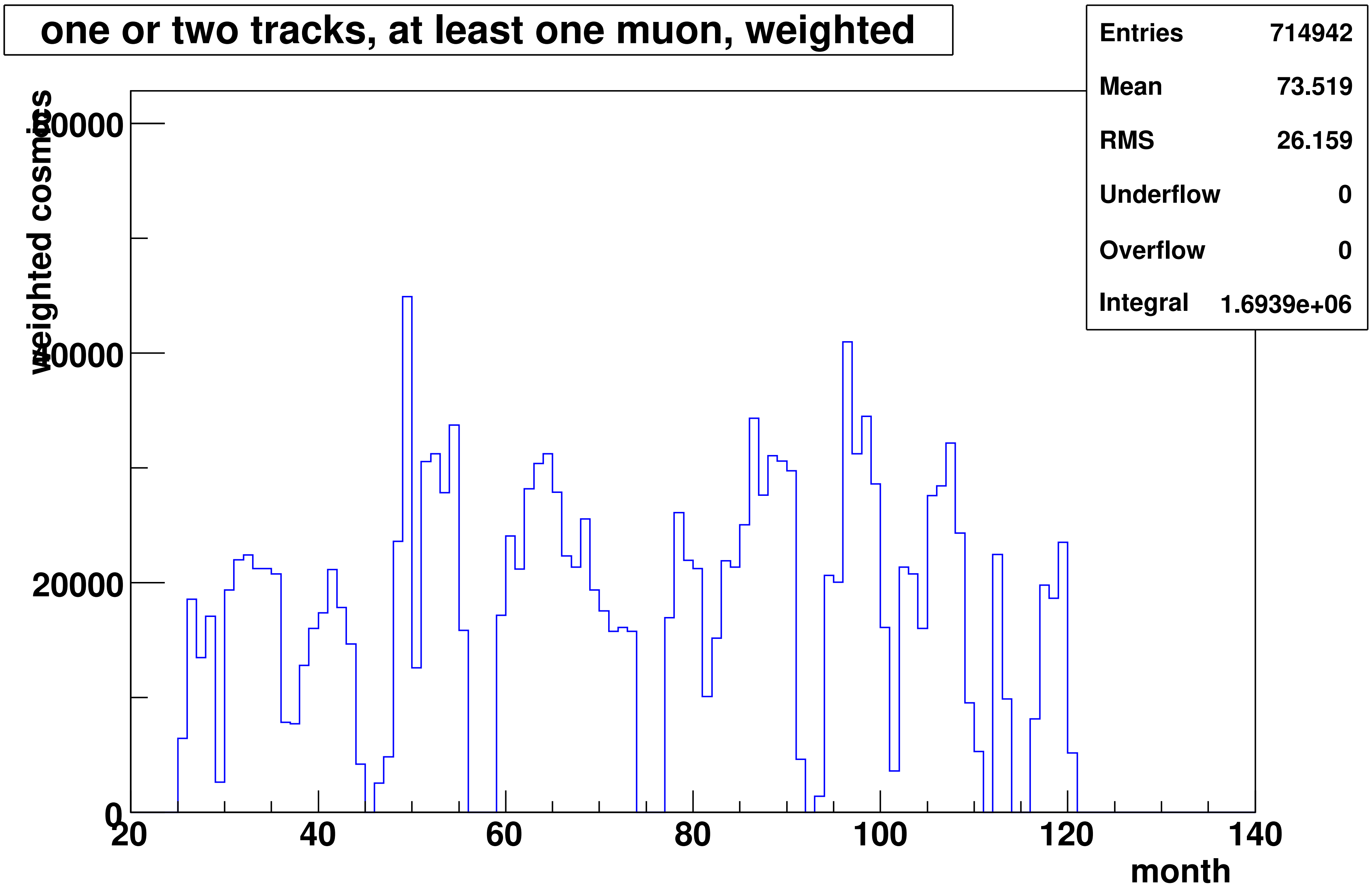


all events
Entries 1081129
Mean 2.3157e+05
RMS 9956.5
Underflow 6.726e+05
Overflow 1.8228e+05
Integral 2.2626e+05
events
6000
4000
2000
0
210
215
220
225
230
235
240
245
250
×10^3
run number

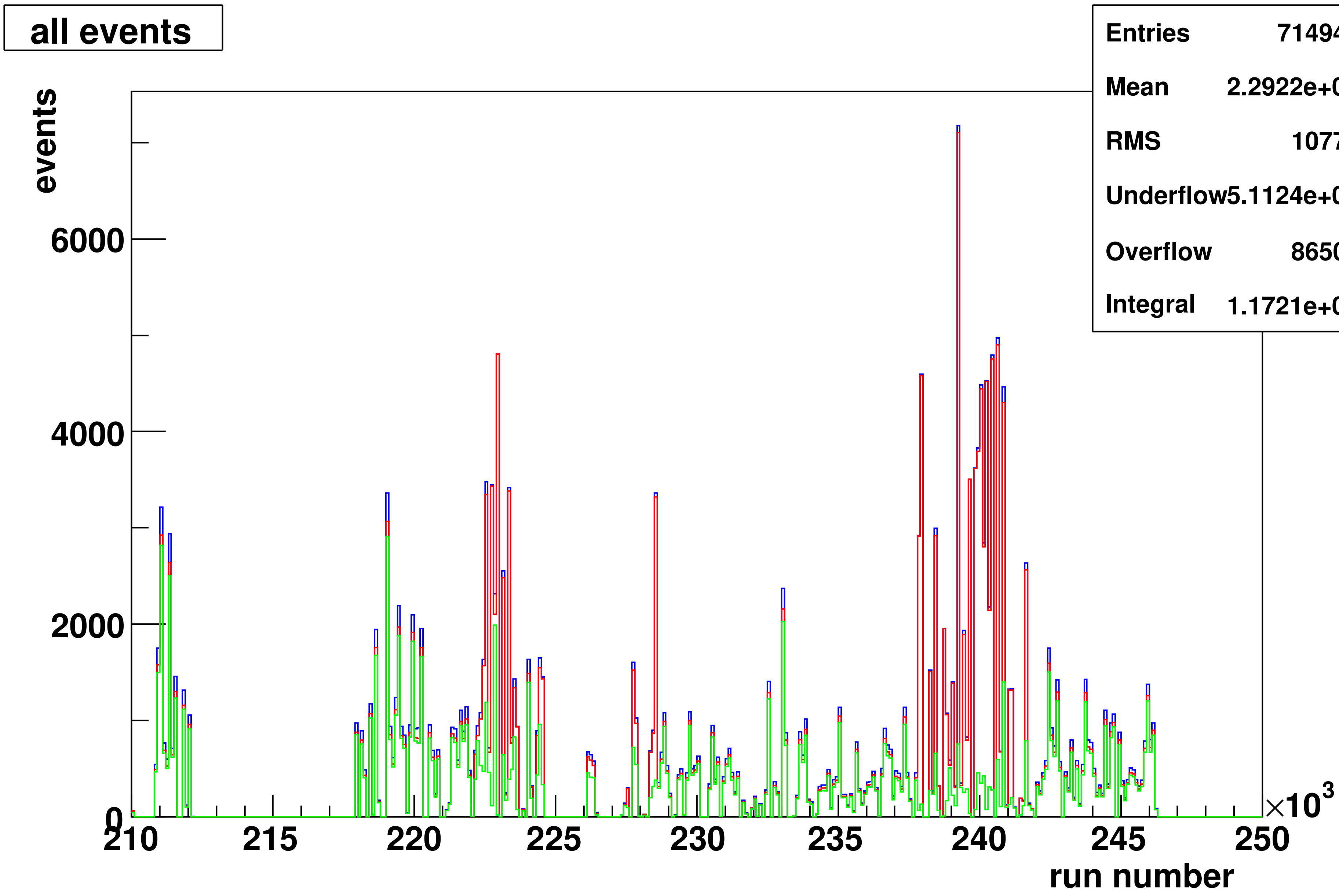


at least one track
Entries 843046
Mean 2.3173e+05
RMS 9878.5
Underflow 5.3666e+05
Overflow 92990
Integral 2.134e+05
events
0
2000
4000
6000
210
215
220
225
230
235
240
245
250
$\times 10^3$
run number

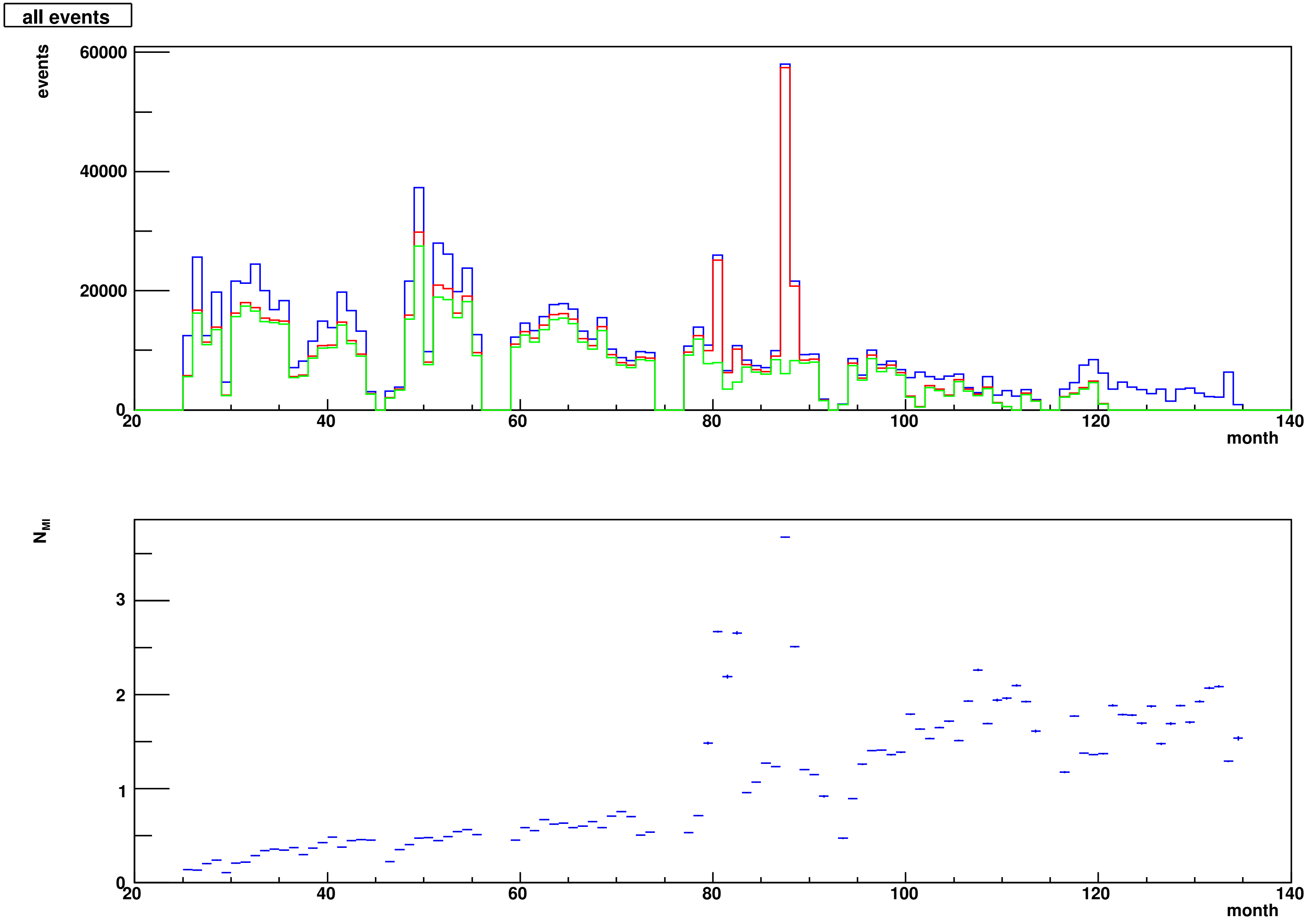

one or two tracks, at least one muon
Entries 714942
Mean 2.2922e+05
RMS 10777
Underflow 5.1124e+05
Overflow 86500
Integral 1.1721e+05
events
3000
2000
1000
0
210
215
220
225
230
235
240
245
250
×10^3
run number



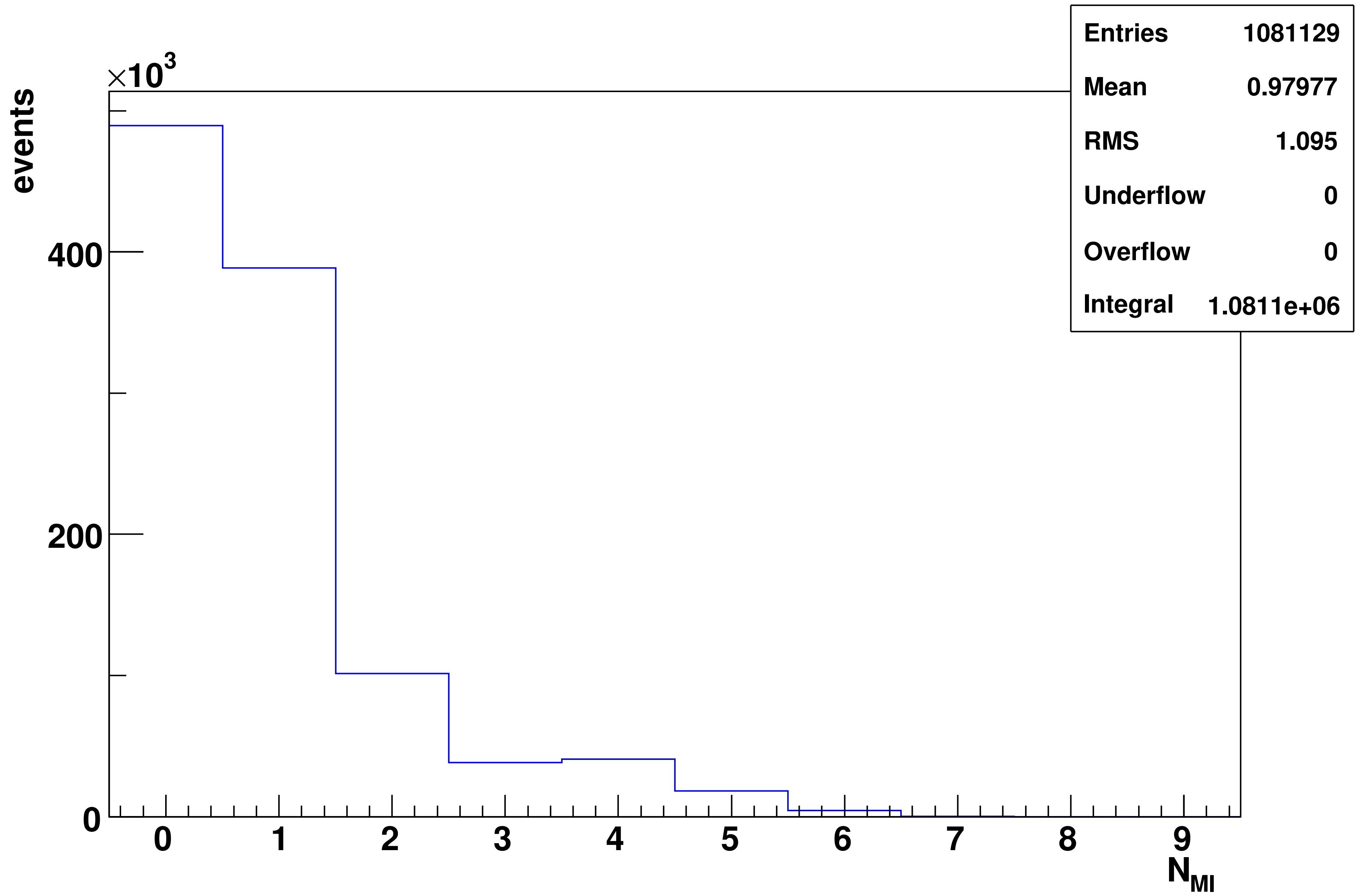
one or two tracks, at least one muon, weighted
Entries 714942
Mean 73.519
RMS 26.159
Underflow 0
Overflow 0
Integral 1.6939e+06
weighted cosmics
0
20000
40000
60000
20
40
60
80
100
120
140
month



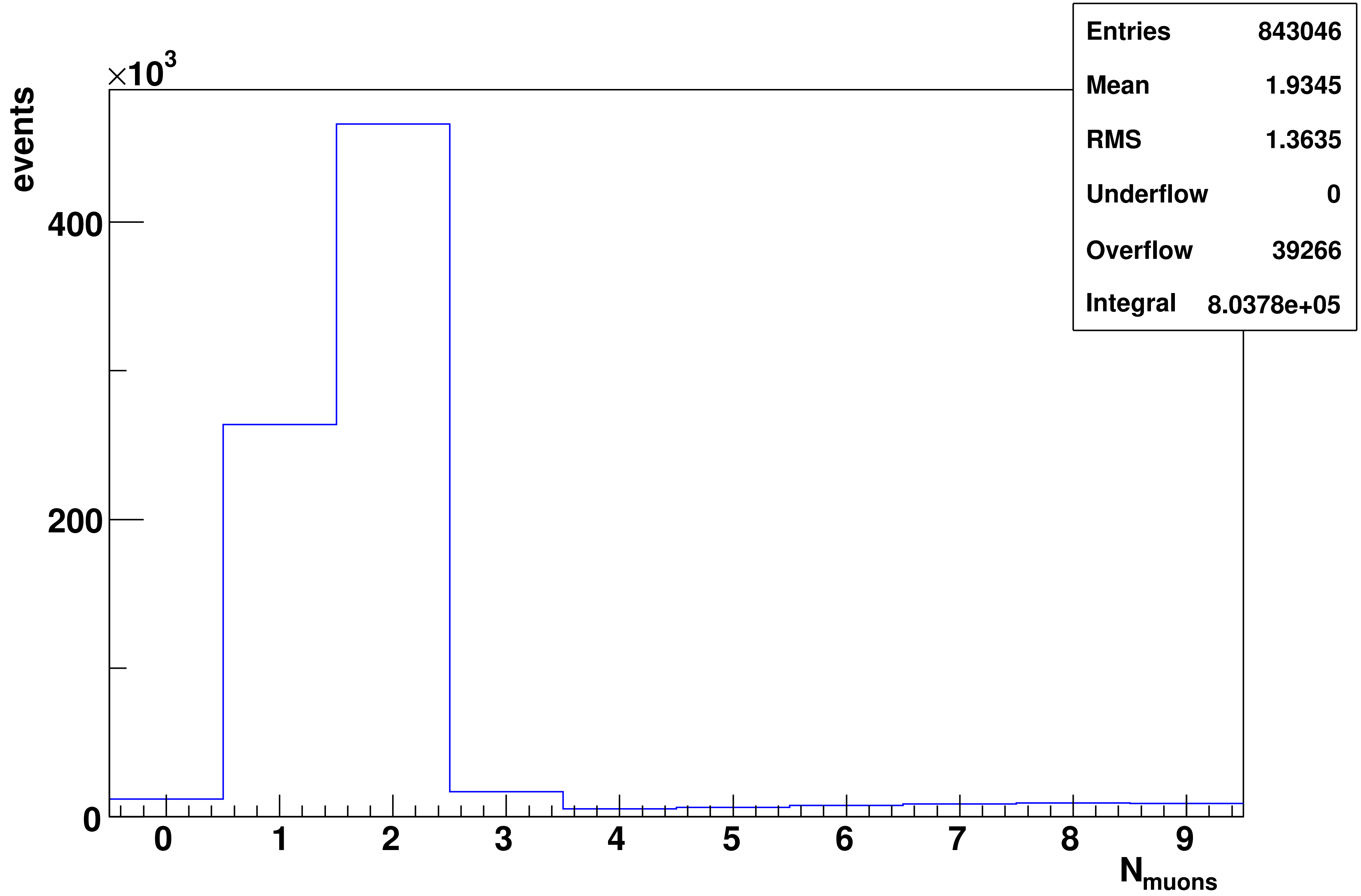
all events
Entries 714942
Mean 2.2922e+05
RMS 10777
Underflow5.1124e+05
Overflow 86500
Integral 1.1721e+05
events
0
2000
4000
6000
210
215
220
225
230
235
240
245
250
×10^3
run number



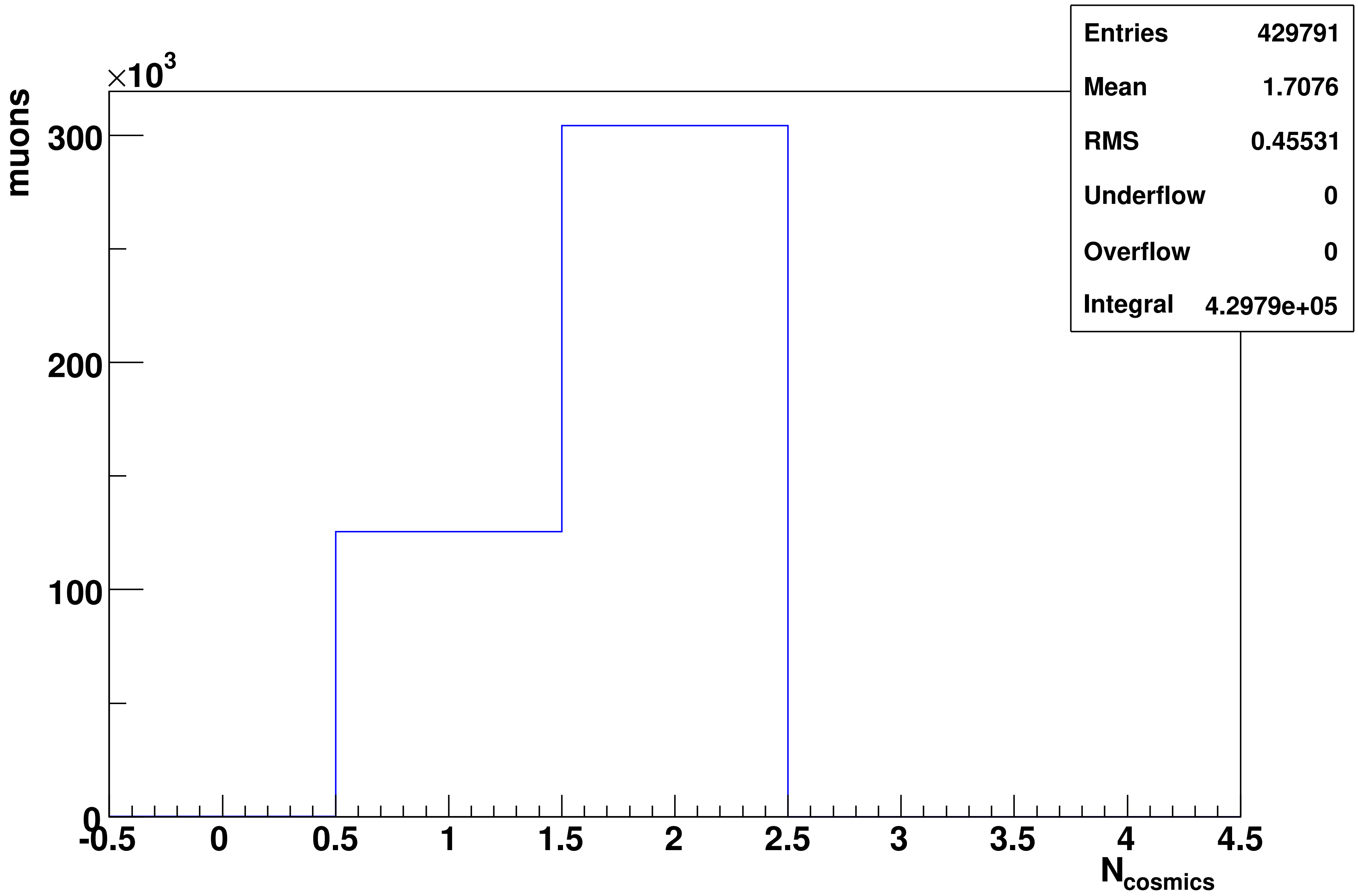
all events
events
60000
40000
20000
0
20
40
60
80
100
120
140
month
N_{MI}
3
2
1
0
20
40
60
80
100
120
140
month

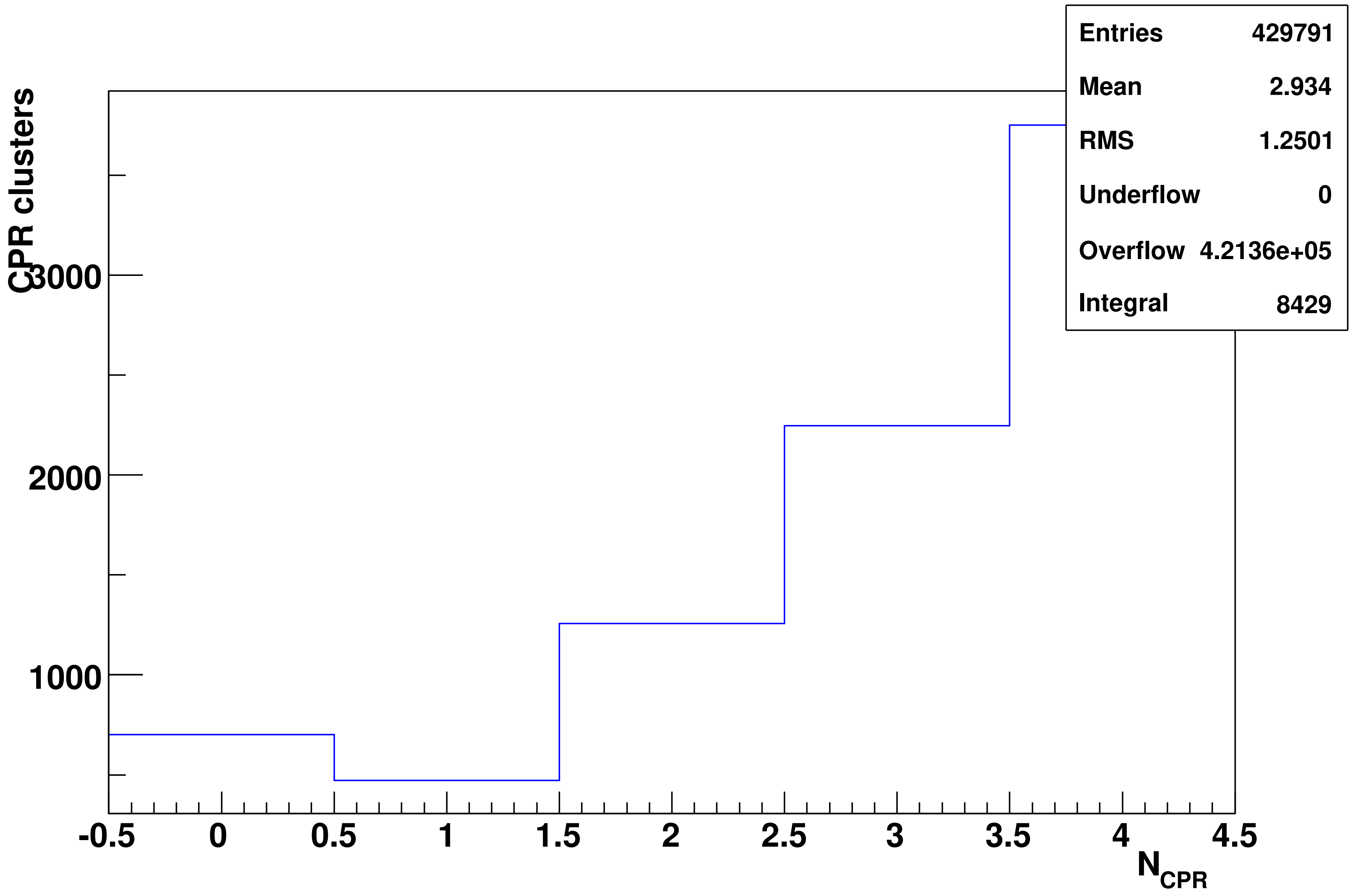


Entries 1081129
Mean 0.97977
RMS 1.095
Underflow 0
Overflow 0
Integral 1.0811e+06
×10^3
events
400
200
0
0 1 2 3 4 5 6 7 8 9
N_MI

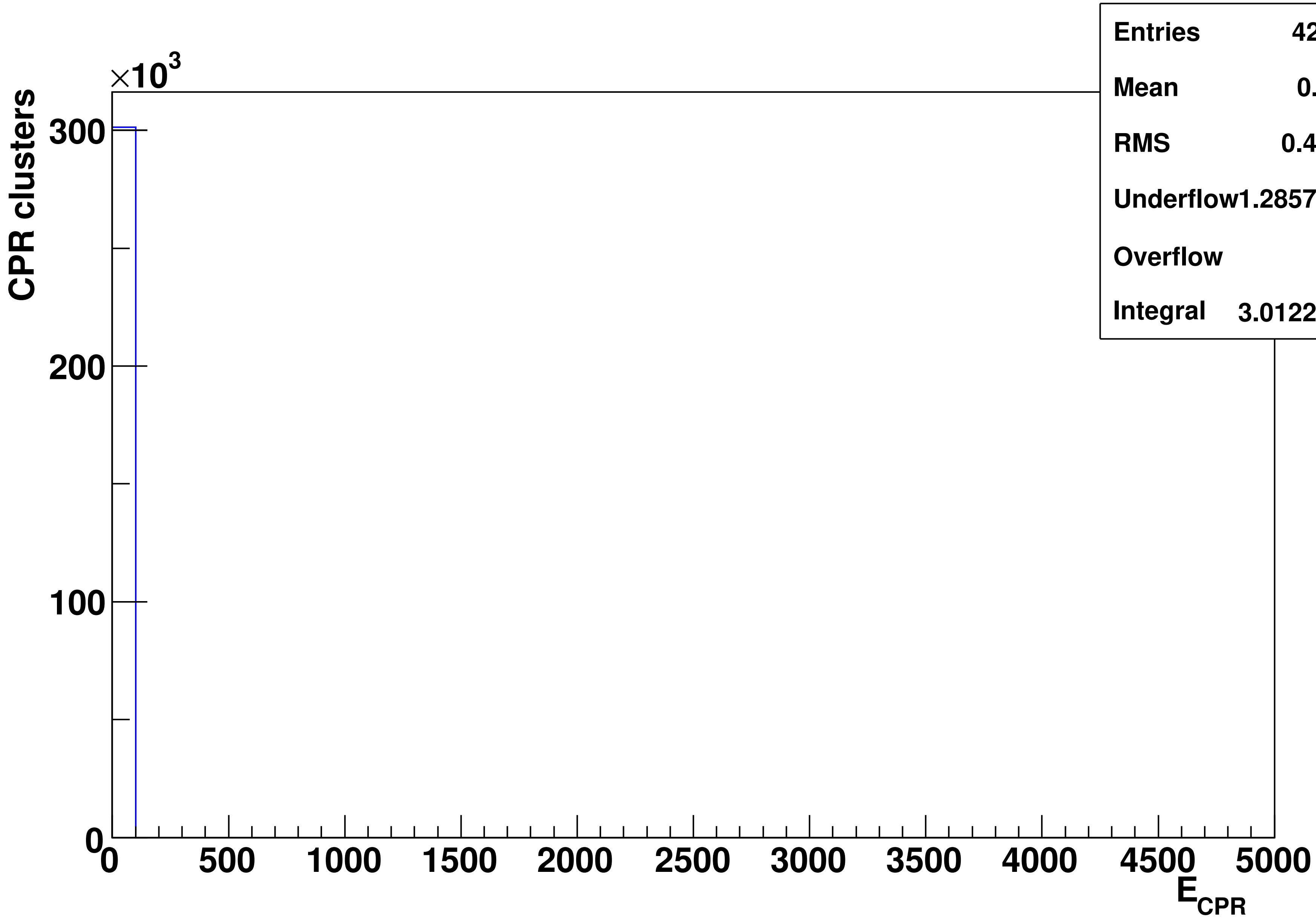


Entries 843046
Mean 1.9345
RMS 1.3635
Underflow 0
Overflow 39266
Integral 8.0378e+05
×10^3
events
400
200
0
0 1 2 3 4 5 6 7 8 9
N_muons

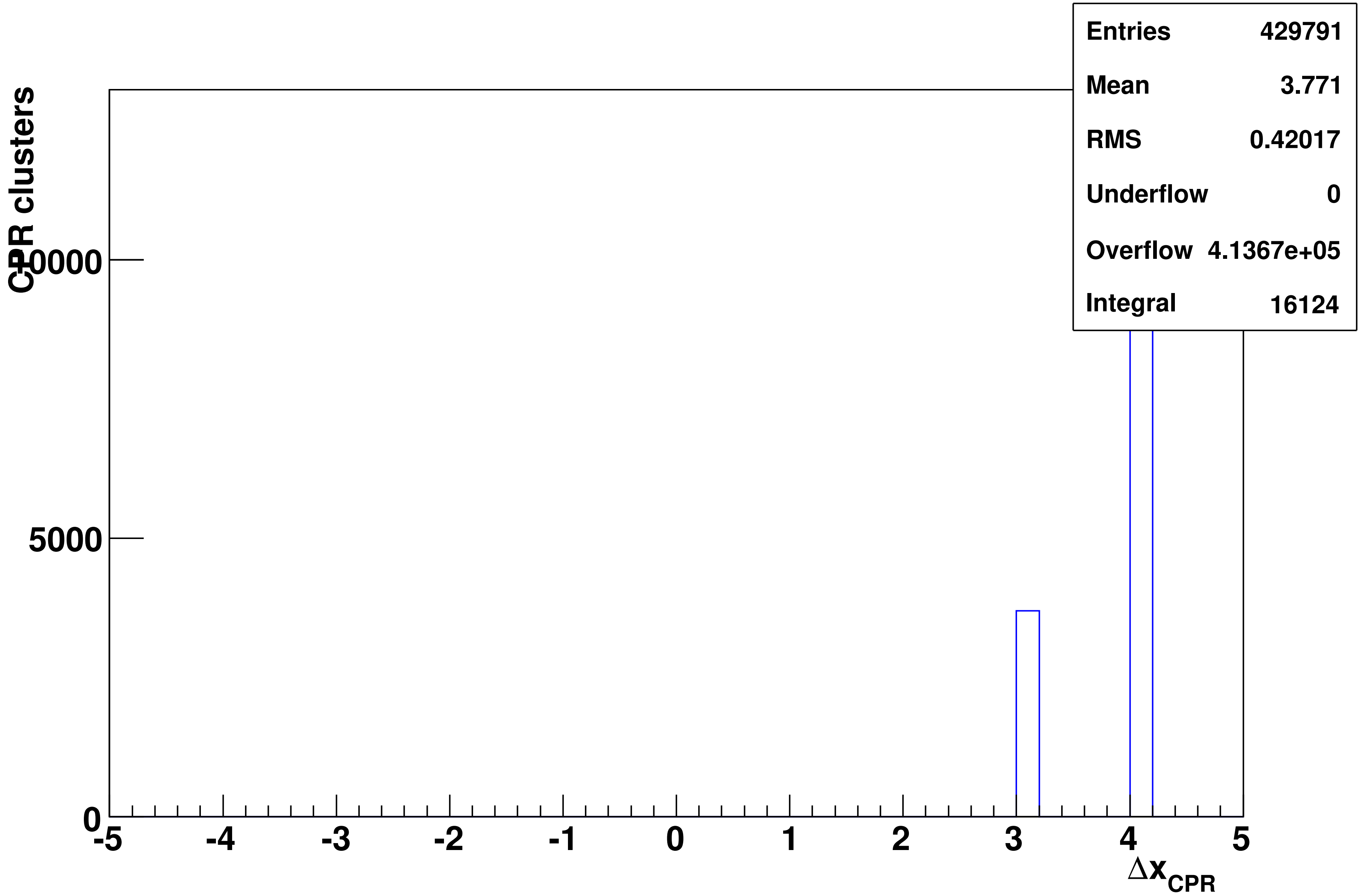

Entries 429791
Mean 1.7076
RMS 0.45531
Underflow 0
Overflow 0
Integral 4.2979e+05
muons
×10^3
300
200
100
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_cosmics



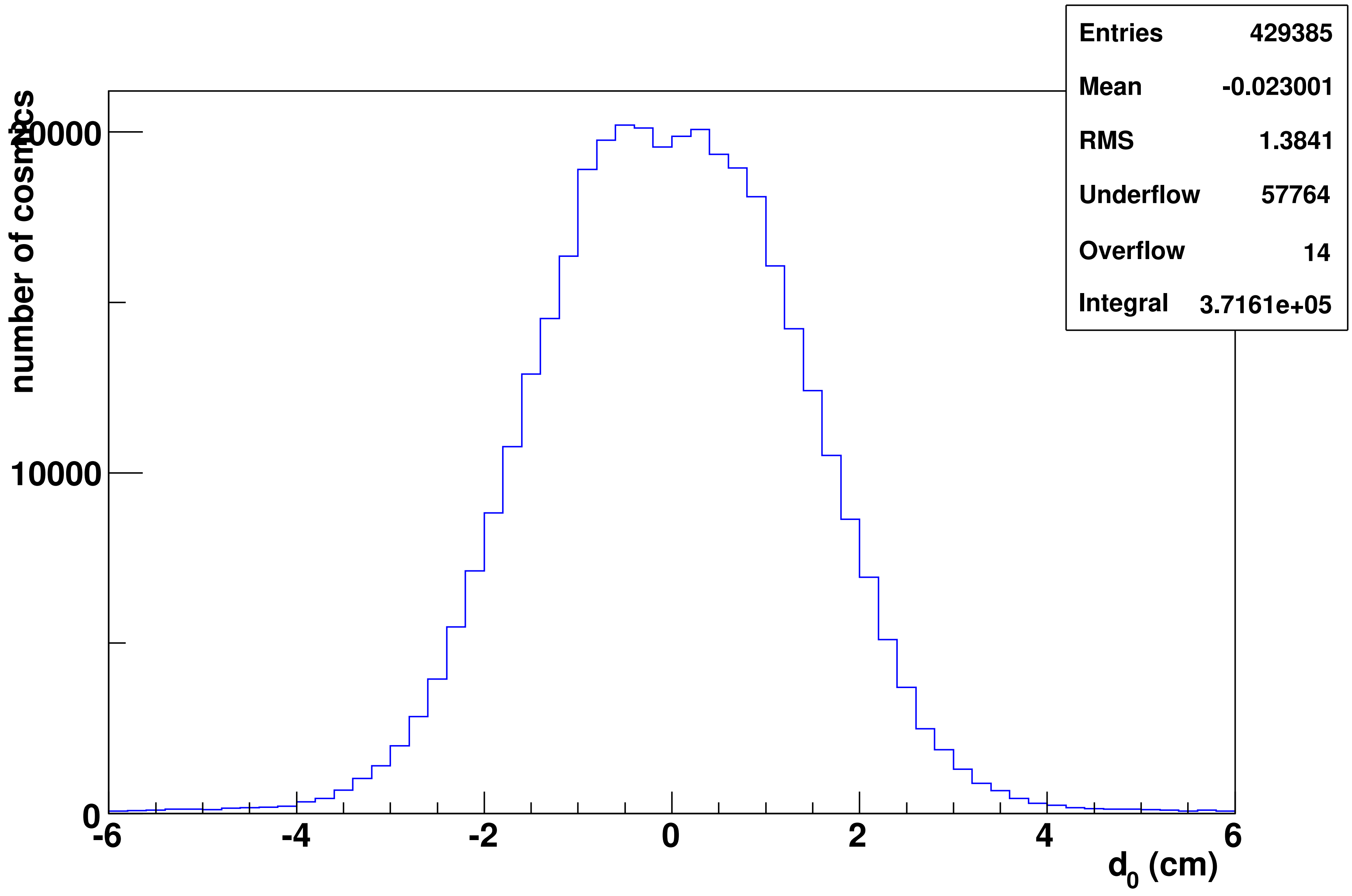
Entries 429791
Mean 2.934
RMS 1.2501
Underflow 0
Overflow 4.2136e+05
Integral 8429
CPR clusters
1000
2000
3000
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
N_{CPR}



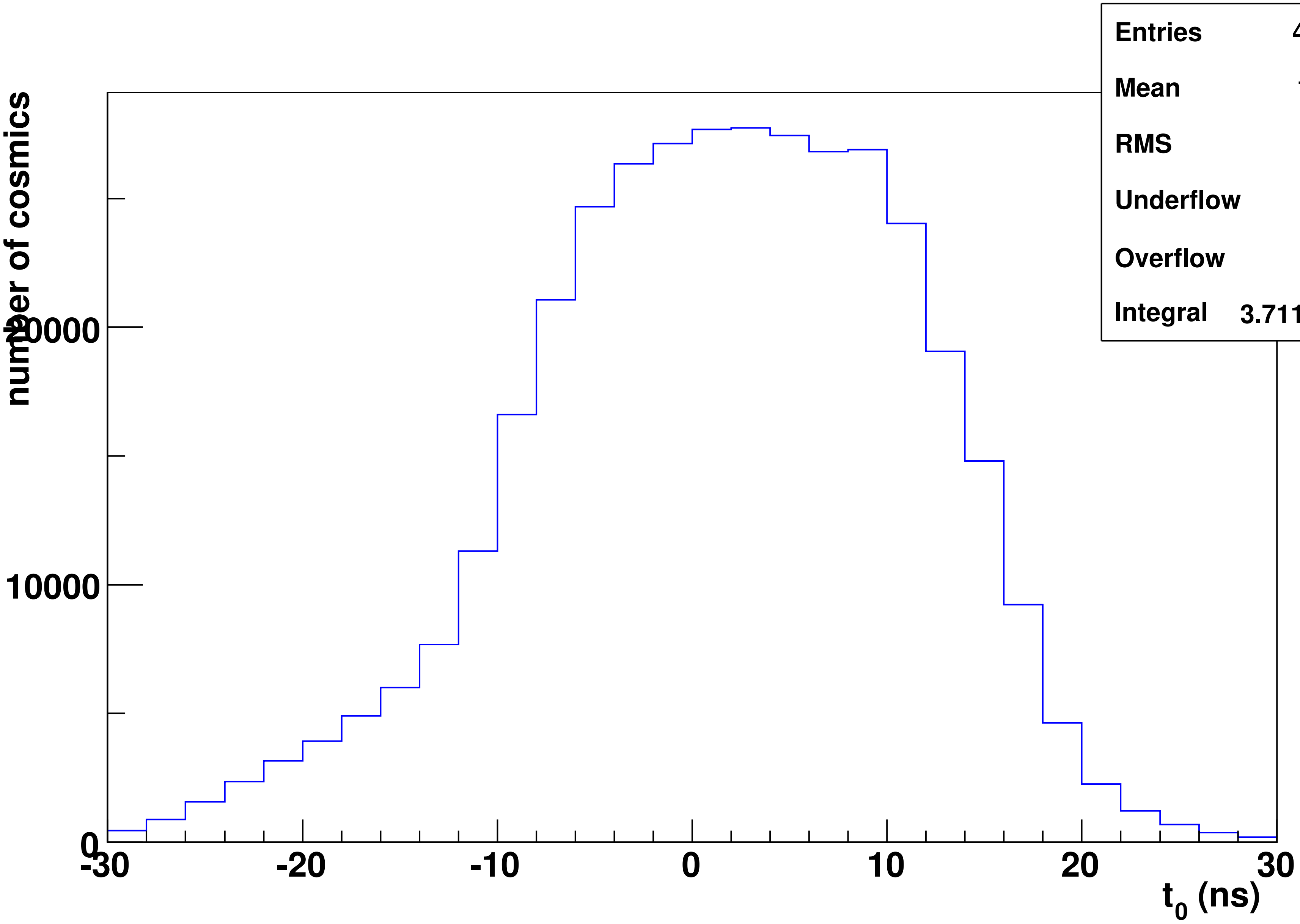
Entries 429791
Mean 0.3492
RMS 0.46867
Underflow1.2857e+05
Overflow 0
Integral 3.0122e+05
×10^3
CPR clusters
300
200
100
0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
E_CPR



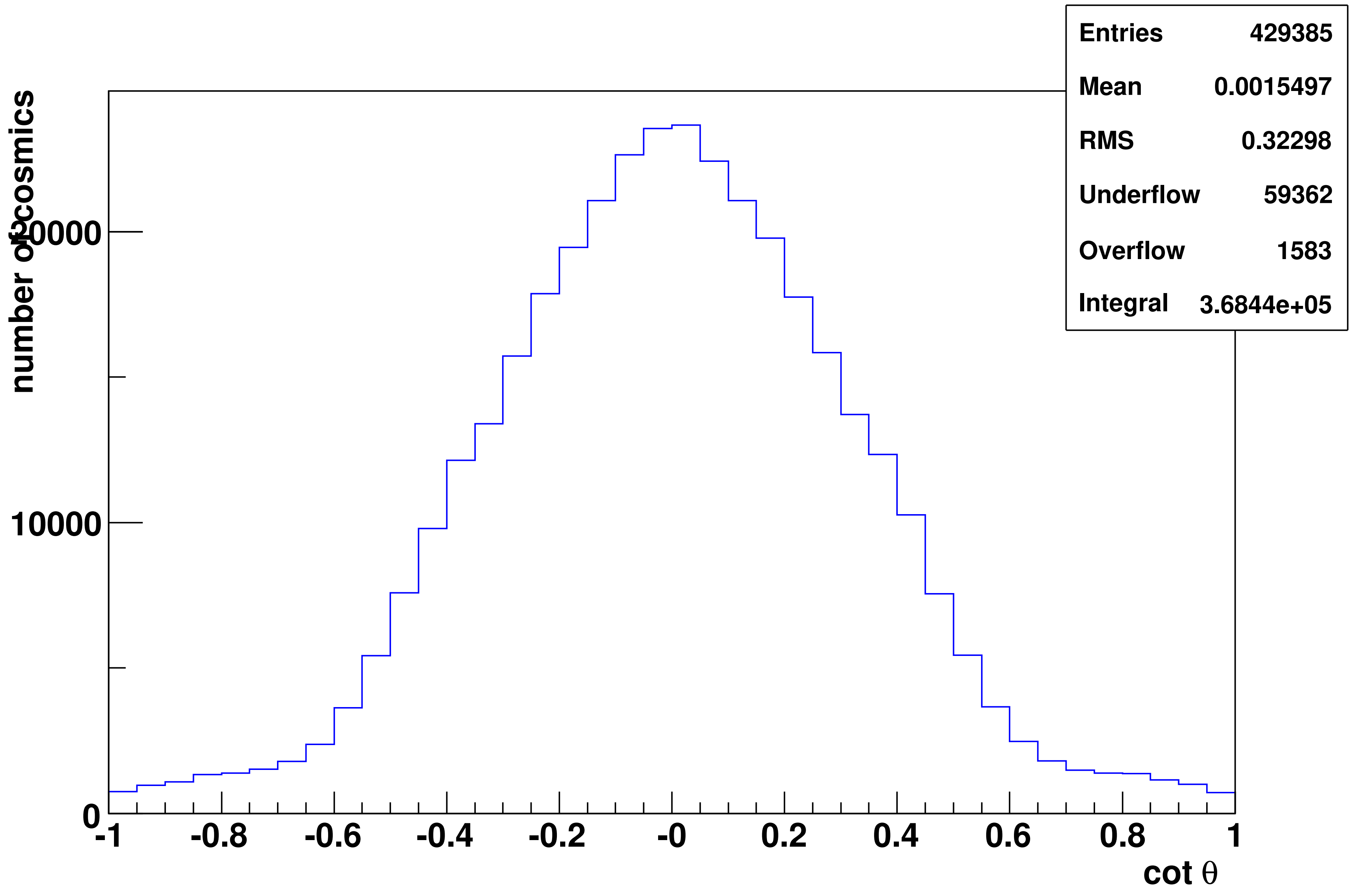
Entries 429791
Mean 3.771
RMS 0.42017
Underflow 0
Overflow 4.1367e+05
Integral 16124
CPR clusters
0
5000
10000
-5
-4
-3
-2
-1
0
1
2
3
4
5
Δx_CPR



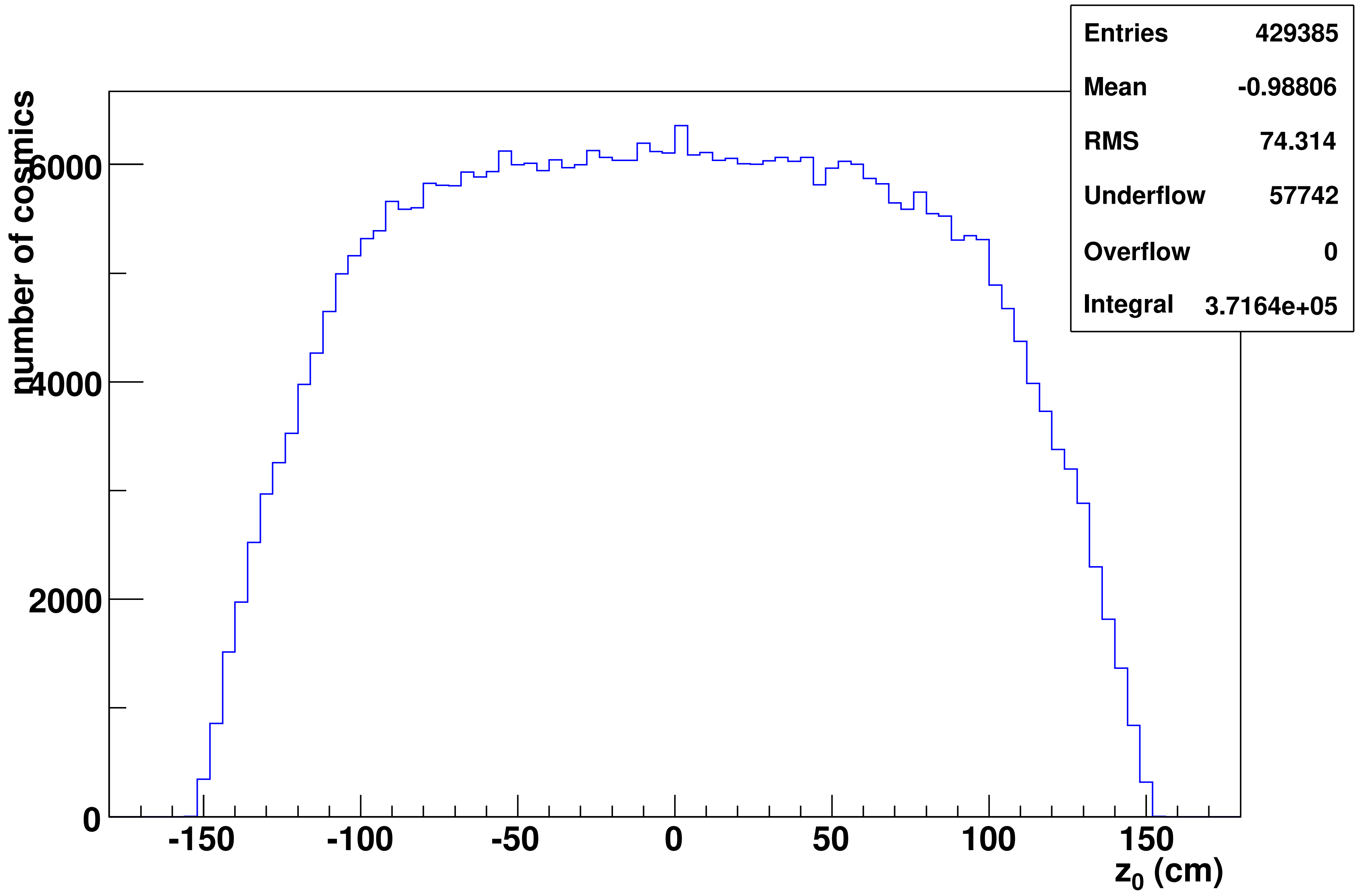
Entries 429385
Mean -0.023001
RMS 1.3841
Underflow 57764
Overflow 14
Integral 3.7161e+05
number of cosmics
20000
10000
0
-6
-4
-2
0
2
4
6
d_0 (cm)

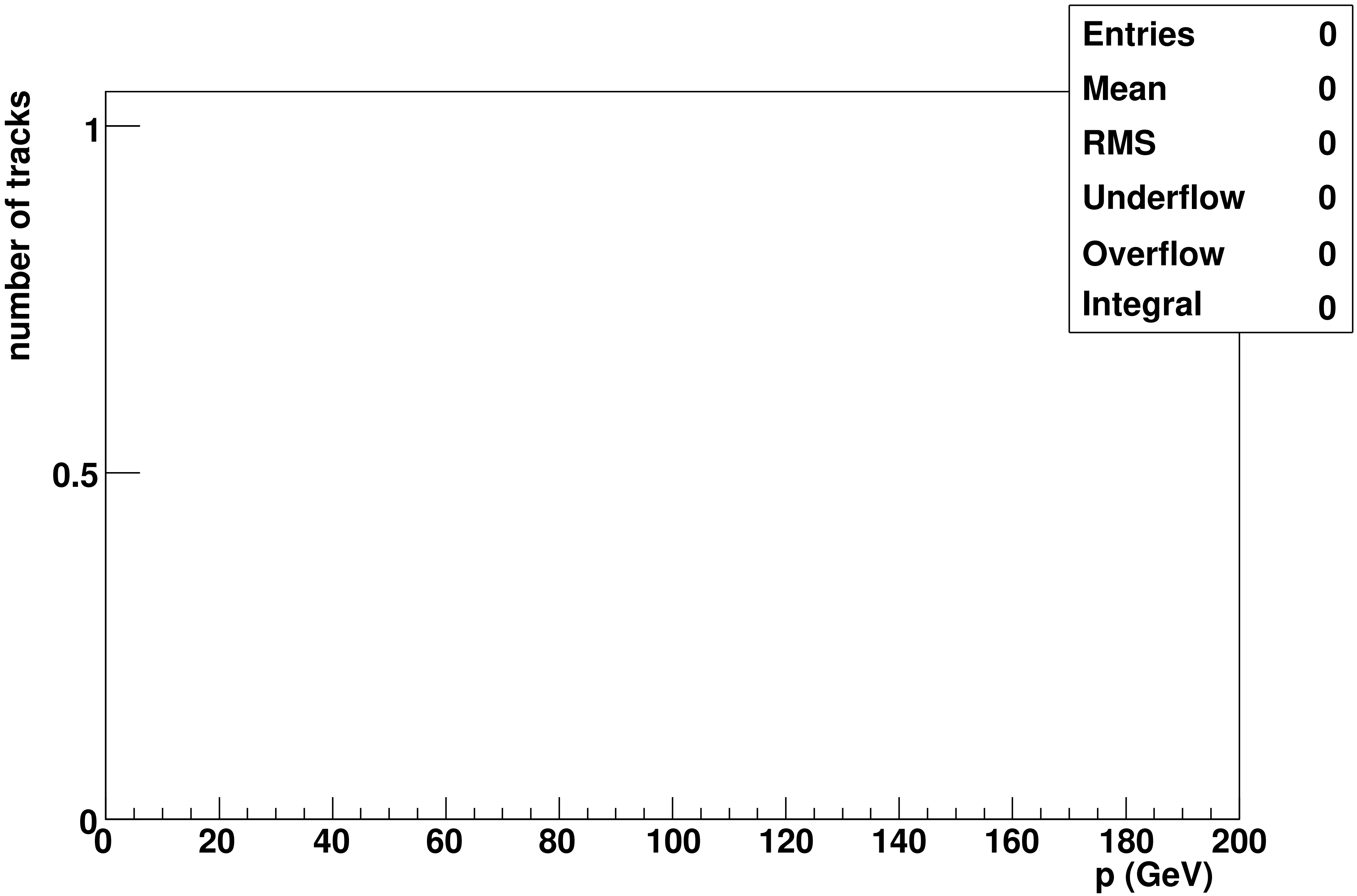


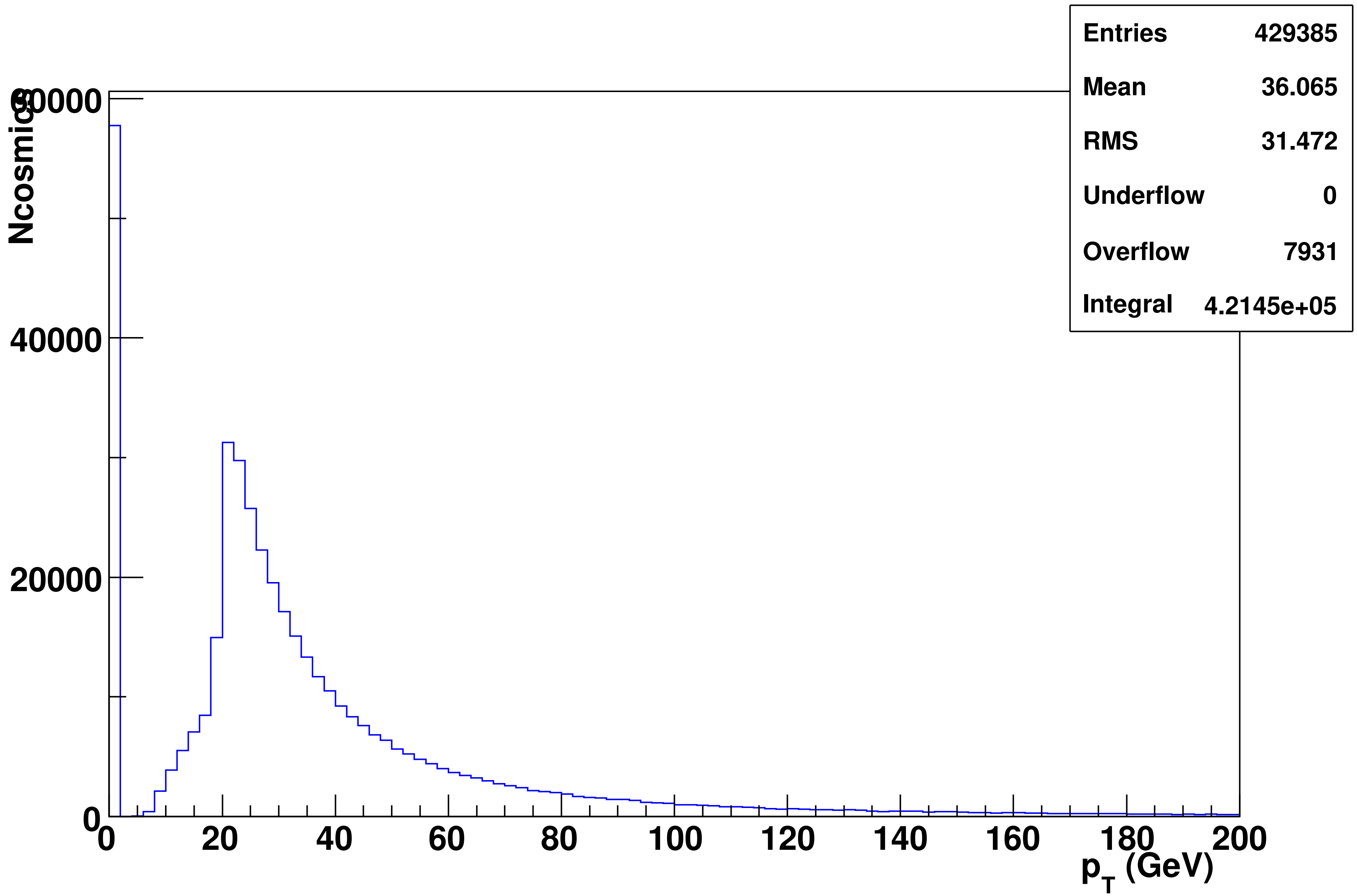
Entries 429385
Mean 1.5344
RMS 9.6436
Underflow 58082
Overflow 161
Integral 3.7114e+05
number of cosmics
20000
10000
0
-30
-20
-10
0
10
20
30
t_0 (ns)

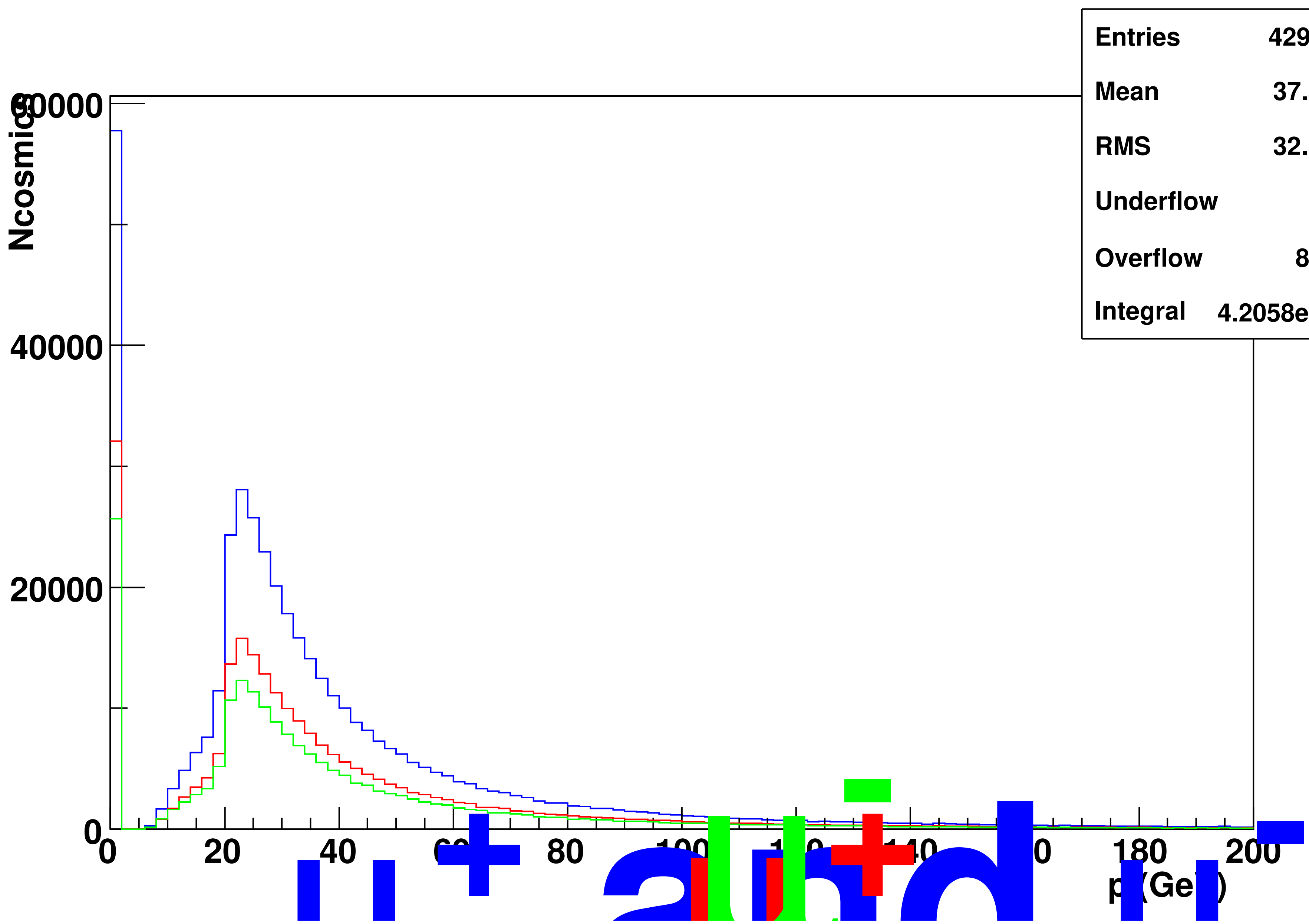


Entries 429385
Mean 0.0015497
RMS 0.32298
Underflow 59362
Overflow 1583
Integral 3.6844e+05
number of cosmics
20000
10000
0
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
cot θ

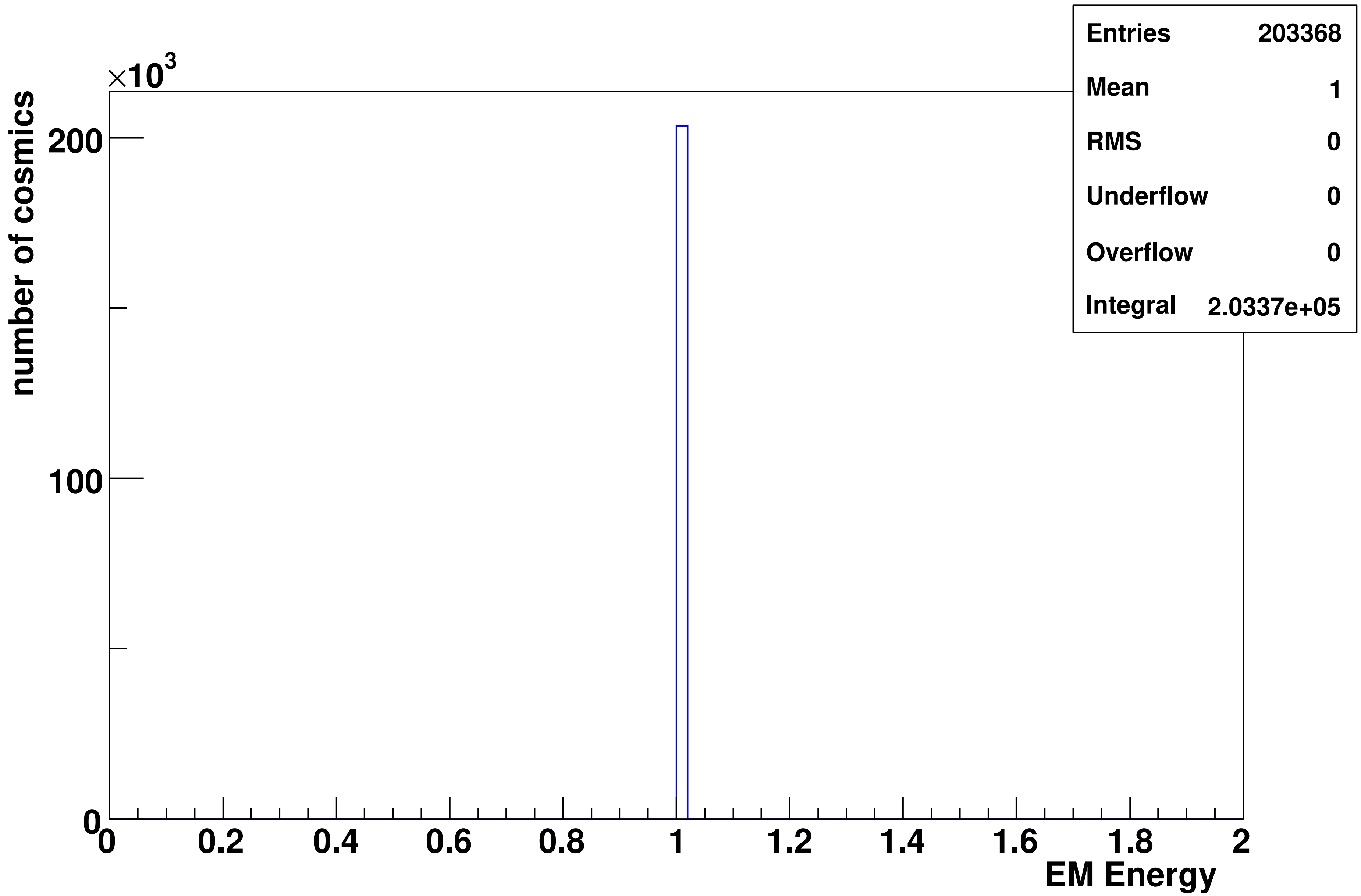

Entries 429385
Mean -0.98806
RMS 74.314
Underflow 57742
Overflow 0
Integral 3.7164e+05
number of cosmics
0
2000
4000
6000
-150
-100
-50
0
50
100
150
z_0 (cm)


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)

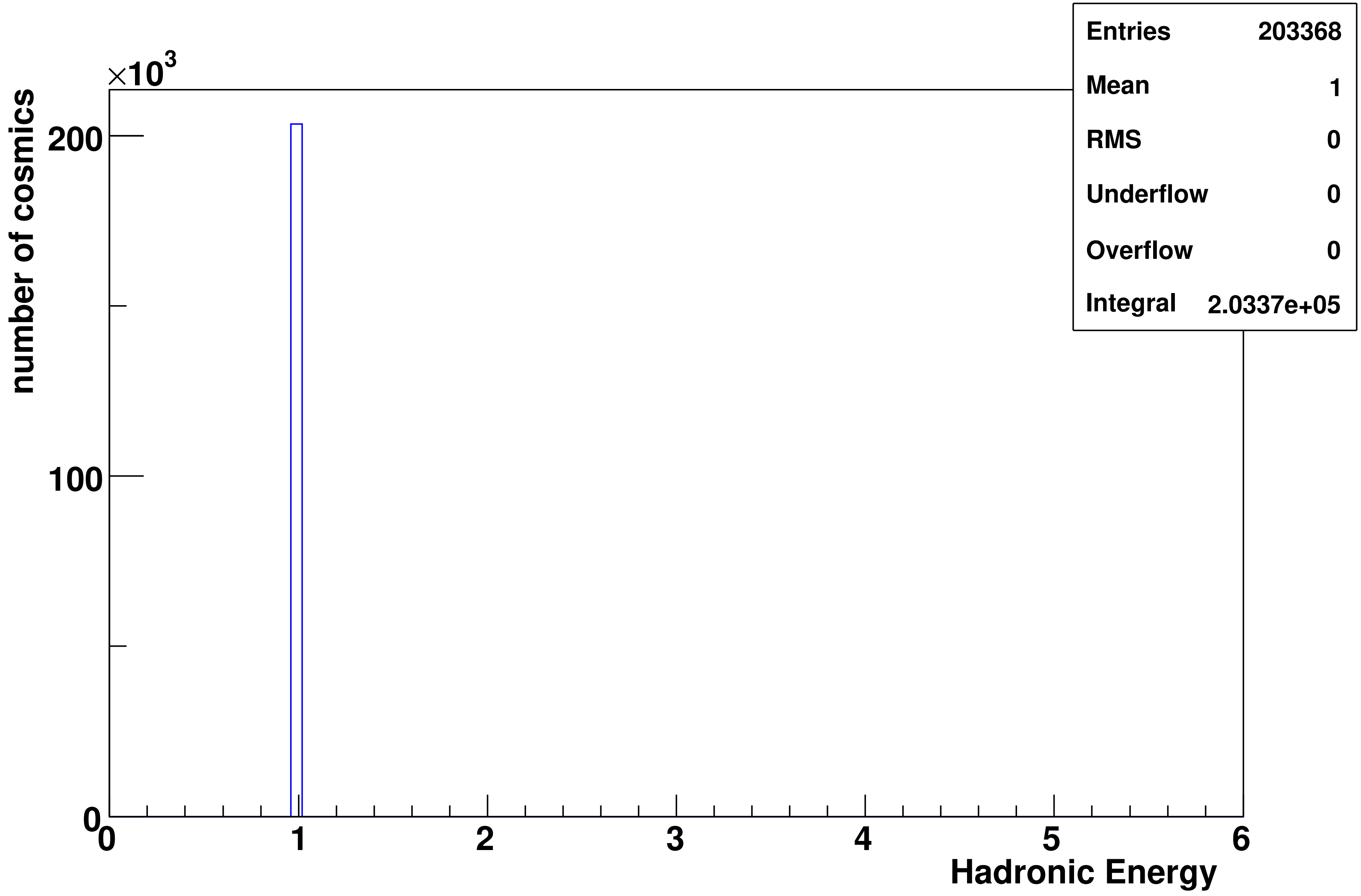

Entries 429385
Mean 36.065
RMS 31.472
Underflow 0
Overflow 7931
Integral 4.2145e+05
Ncosmics
0
20000
40000
60000
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV)



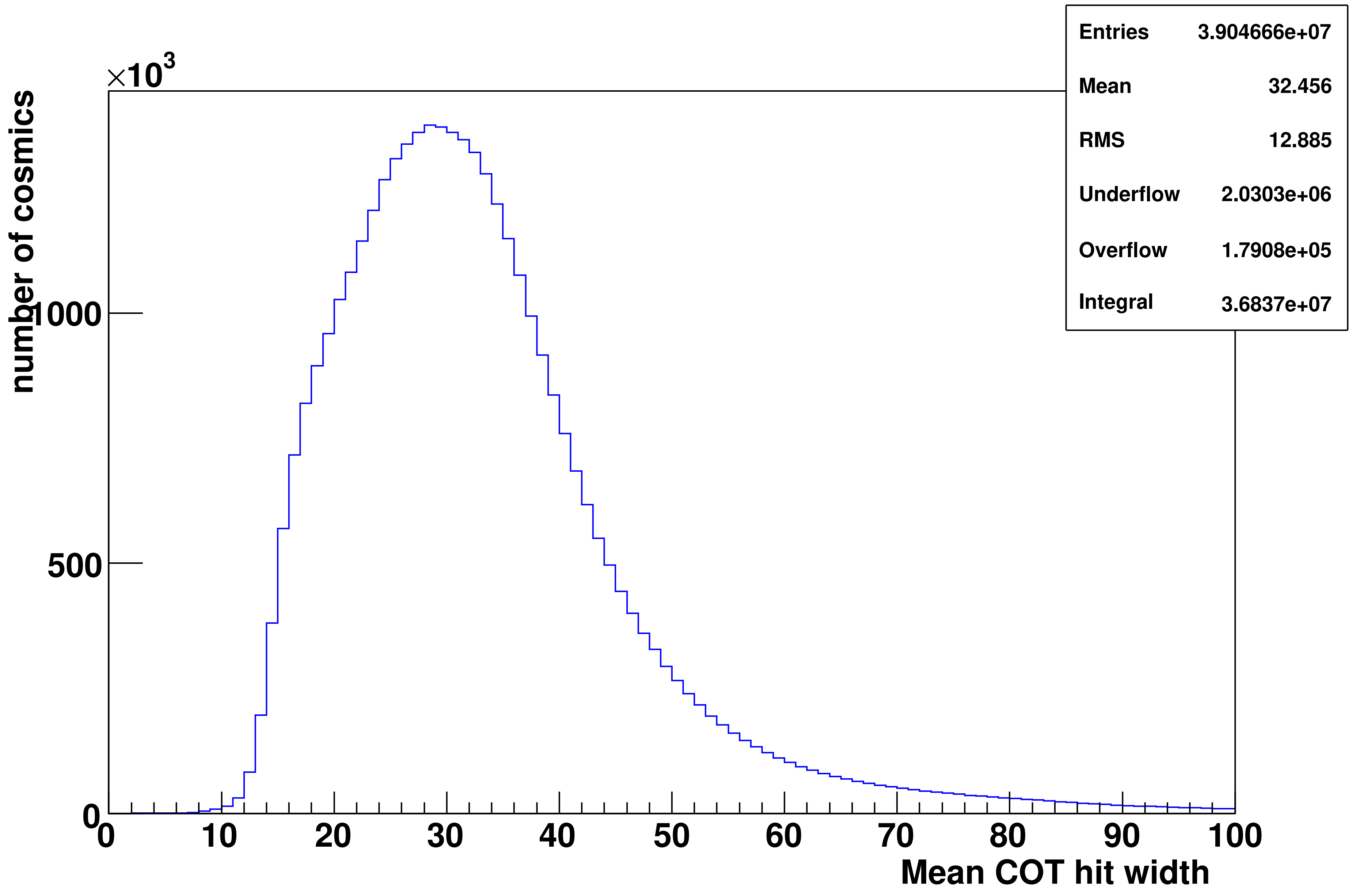
Entries 429385
Mean 37.584
RMS 32.364
Underflow 0
Overflow 8810
Integral 4.2058e+05
Ncosmics
p (GeV)



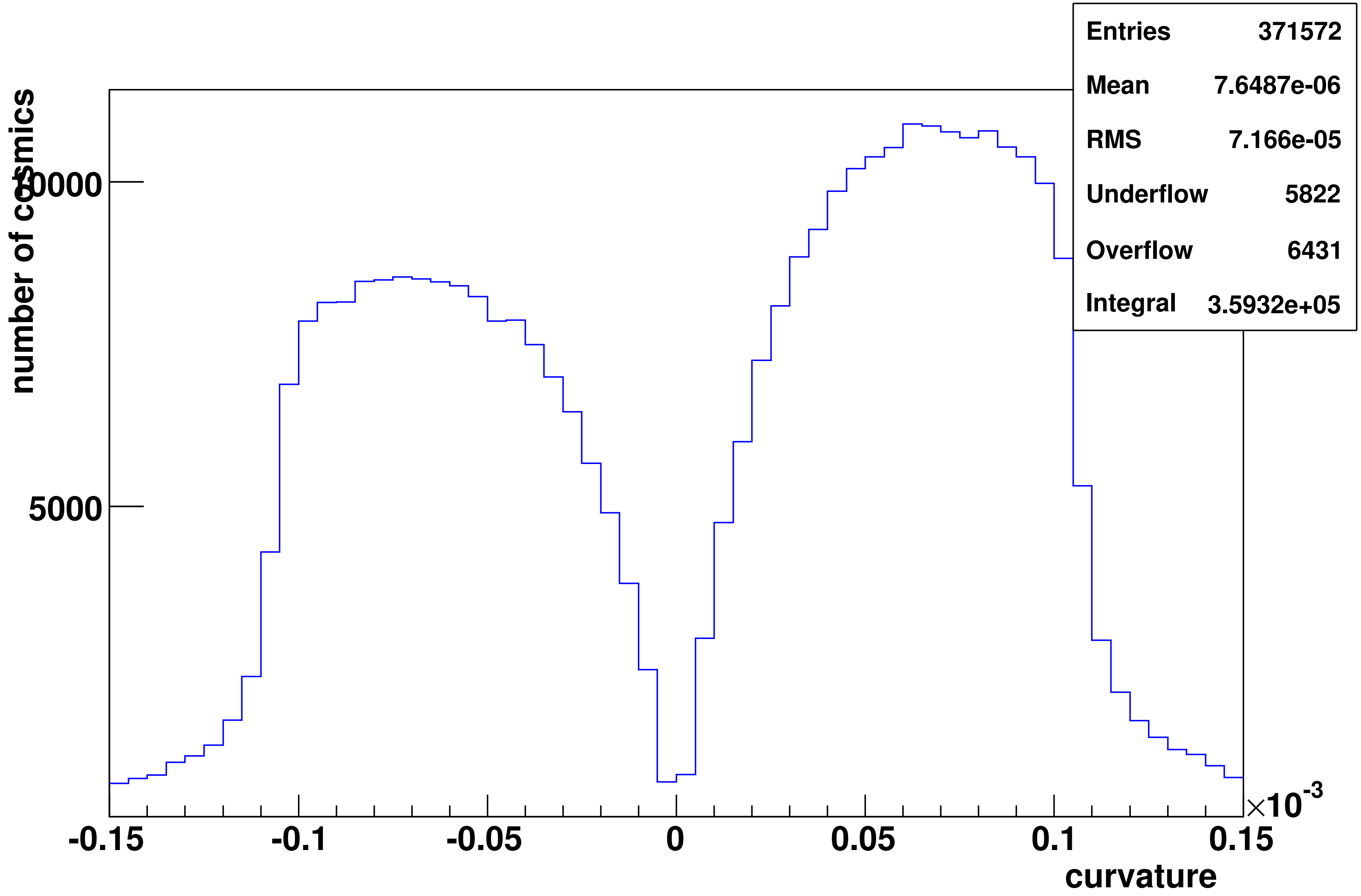
Entries 203368
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.0337e+05
$\times10^3$
number of cosmics
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
EM Energy



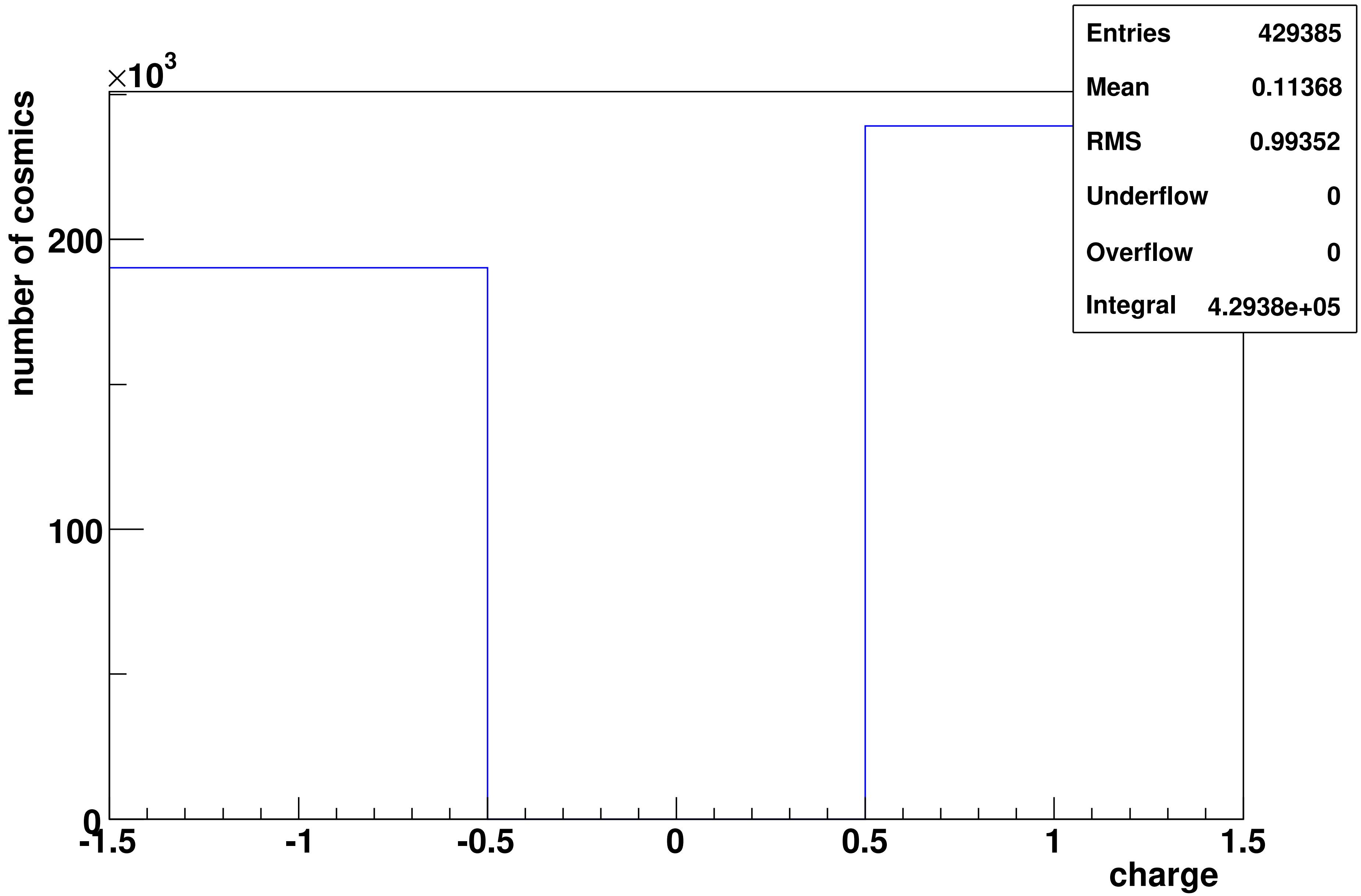
Entries 203368
Mean 1
RMS 0
Underflow 0
Overflow 0
Integral 2.0337e+05
$\times 10^{3}$
number of cosmics
200
100
0
0
1
2
3
4
5
6
Hadronic Energy

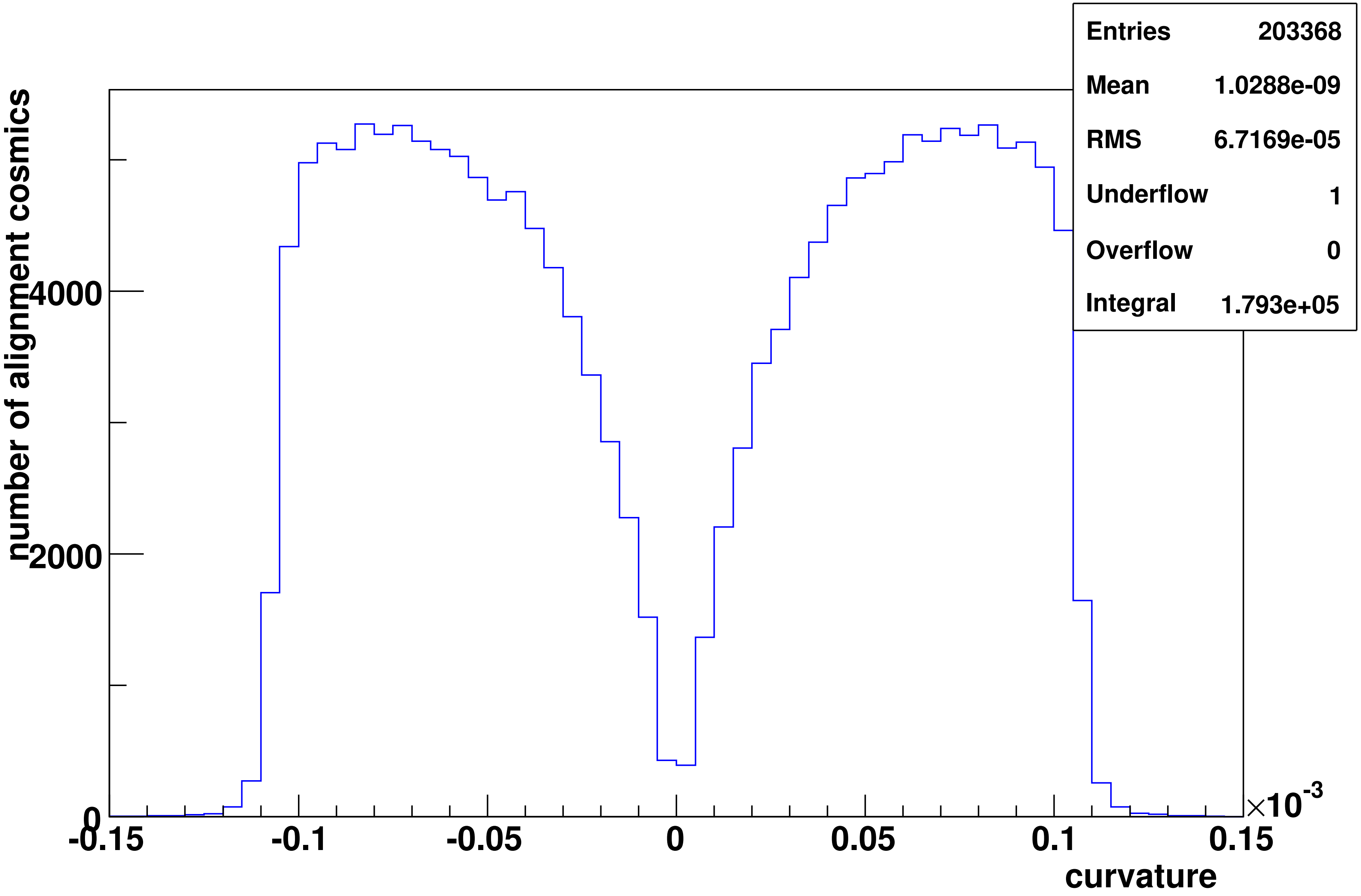


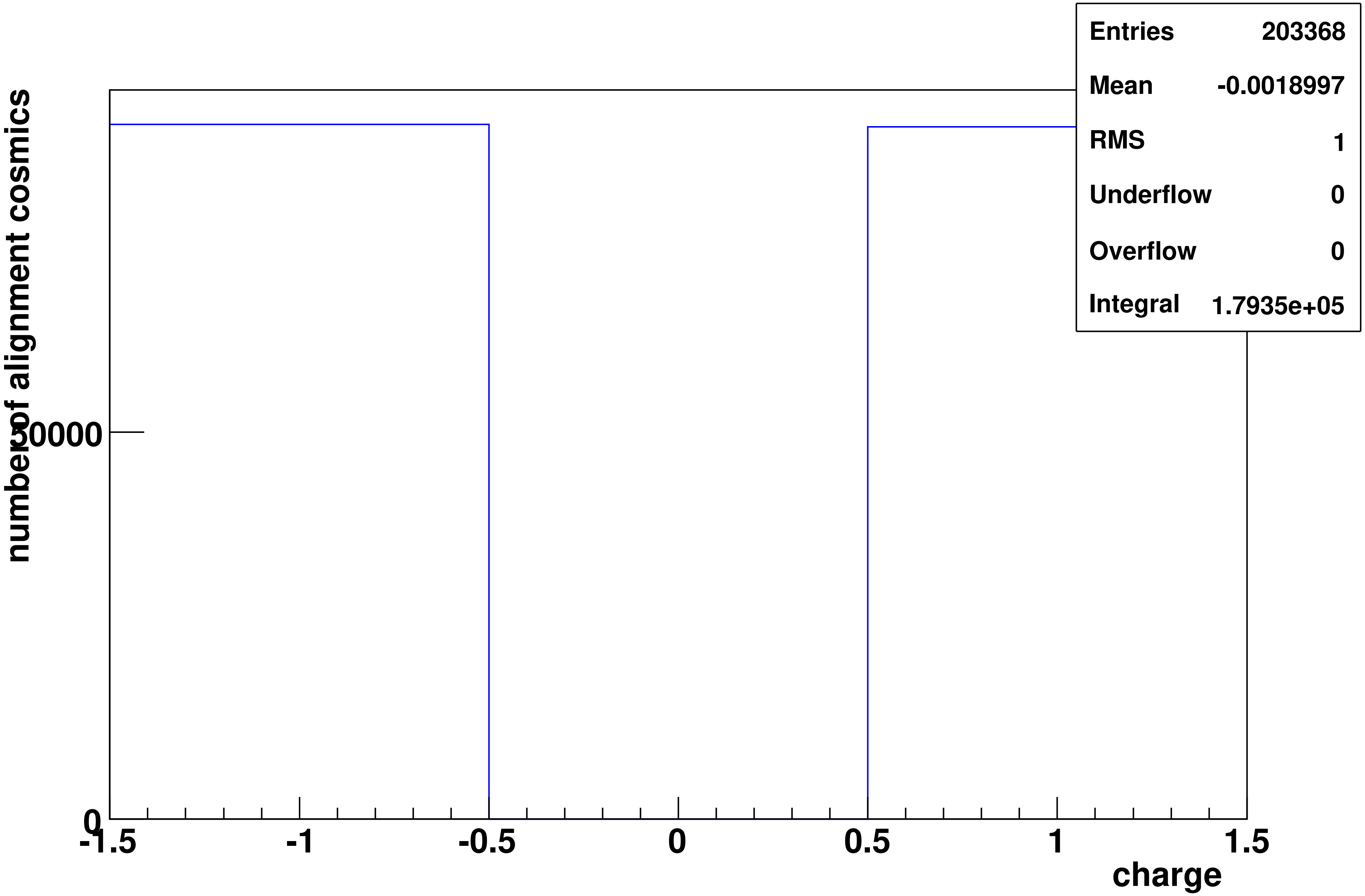
Entries 3.904666e+07
Mean 32.456
RMS 12.885
Underflow 2.0303e+06
Overflow 1.7908e+05
Integral 3.6837e+07
×10^3
number of cosmics
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
Mean COT hit width



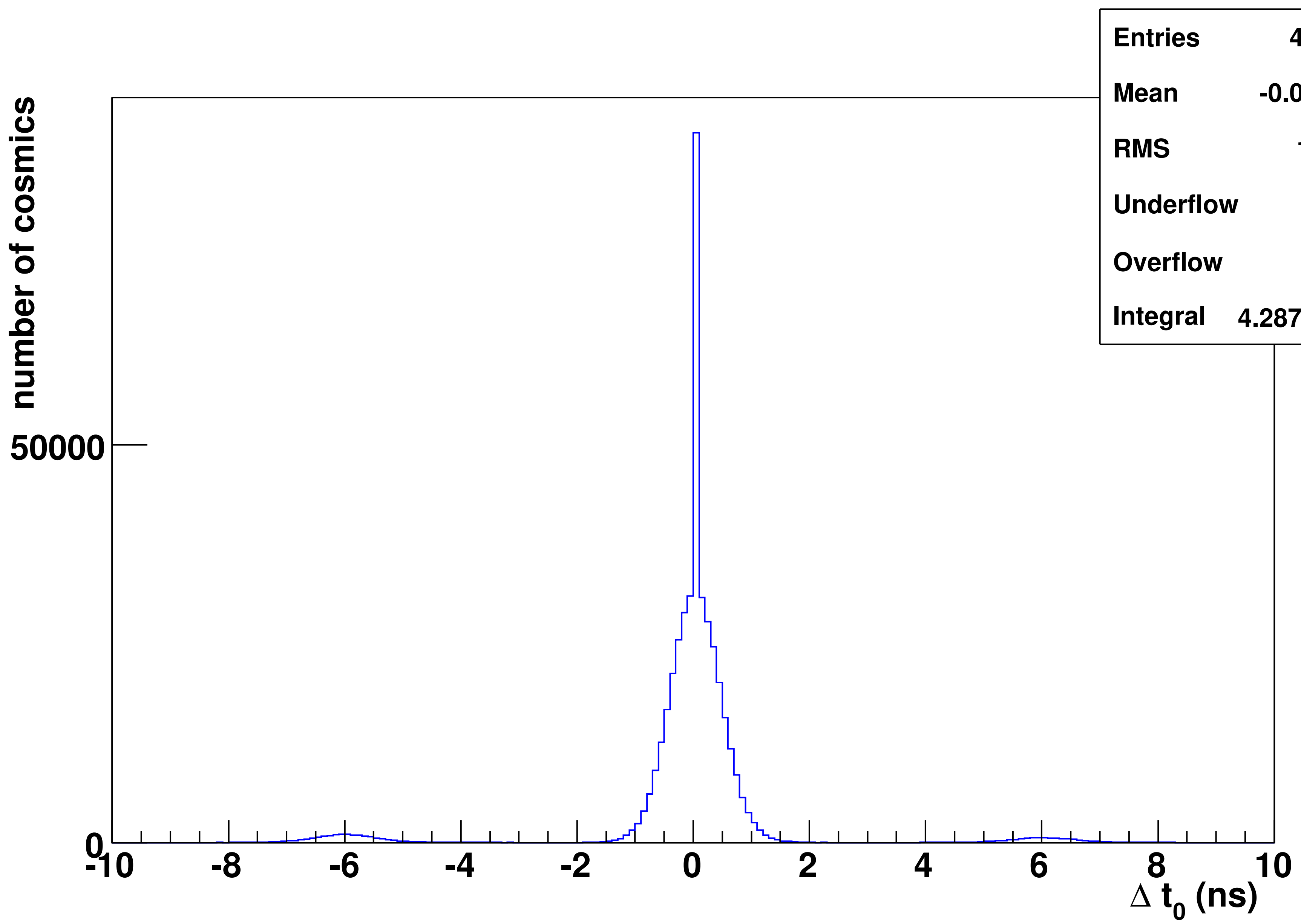
Entries 371572
Mean 7.6487e-06
RMS 7.166e-05
Underflow 5822
Overflow 6431
Integral 3.5932e+05
number of cosmics
10000
5000
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature


Entries 429385
Mean 0.11368
RMS 0.99352
Underflow 0
Overflow 0
Integral 4.2938e+05
×10^3
number of cosmics
200
100
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

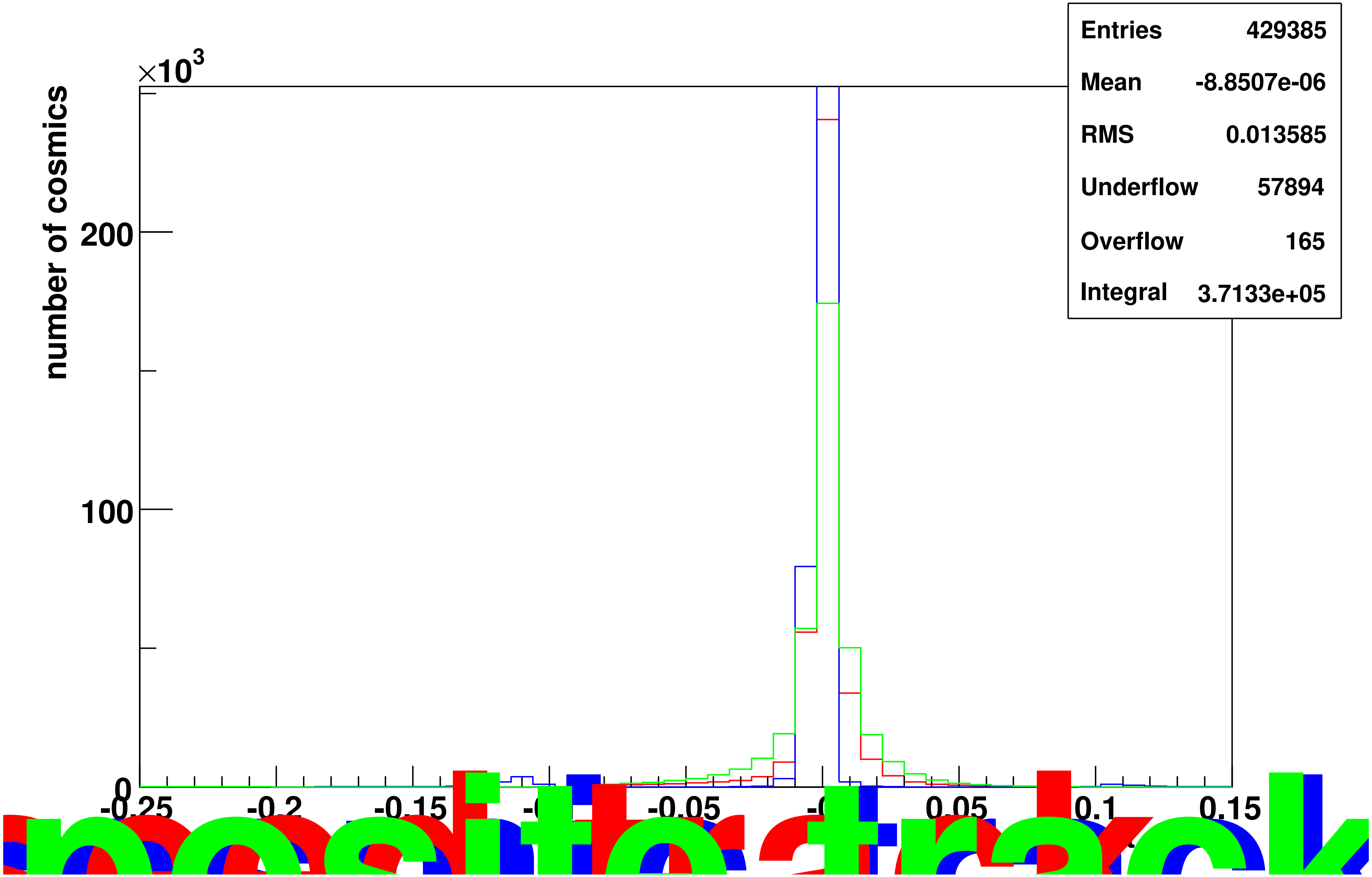

Entries 203368
Mean 1.0288e-09
RMS 6.7169e-05
Underflow 1
Overflow 0
Integral 1.793e+05
number of alignment cosmics
4000
2000
0
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
×10^-3
curvature



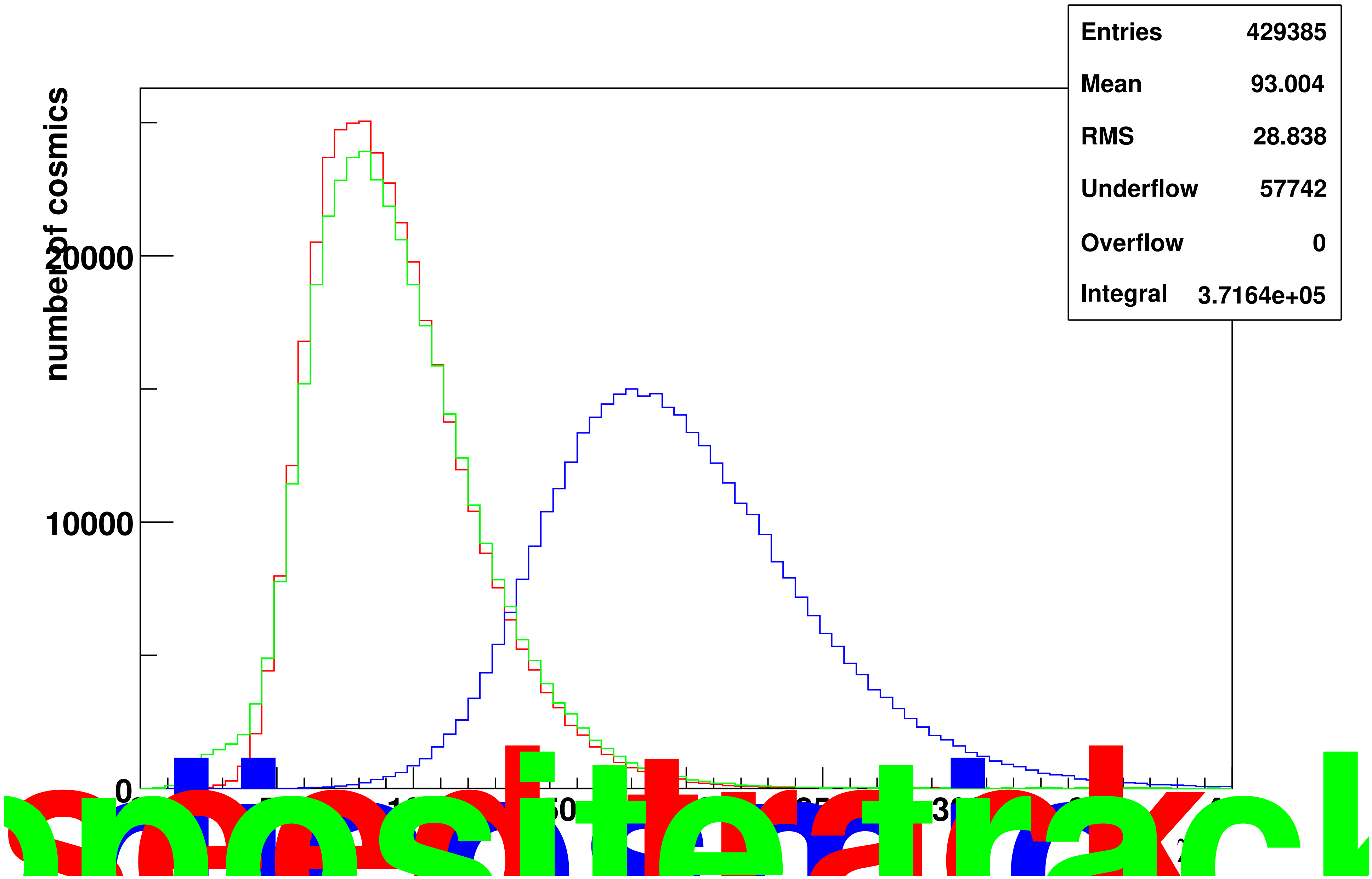
Entries 203368
Mean -0.0018997
RMS 1
Underflow 0
Overflow 0
Integral 1.7935e+05
number of alignment cosmics
50000
0
-1.5
-1
-0.5
0
0.5
1
1.5
charge

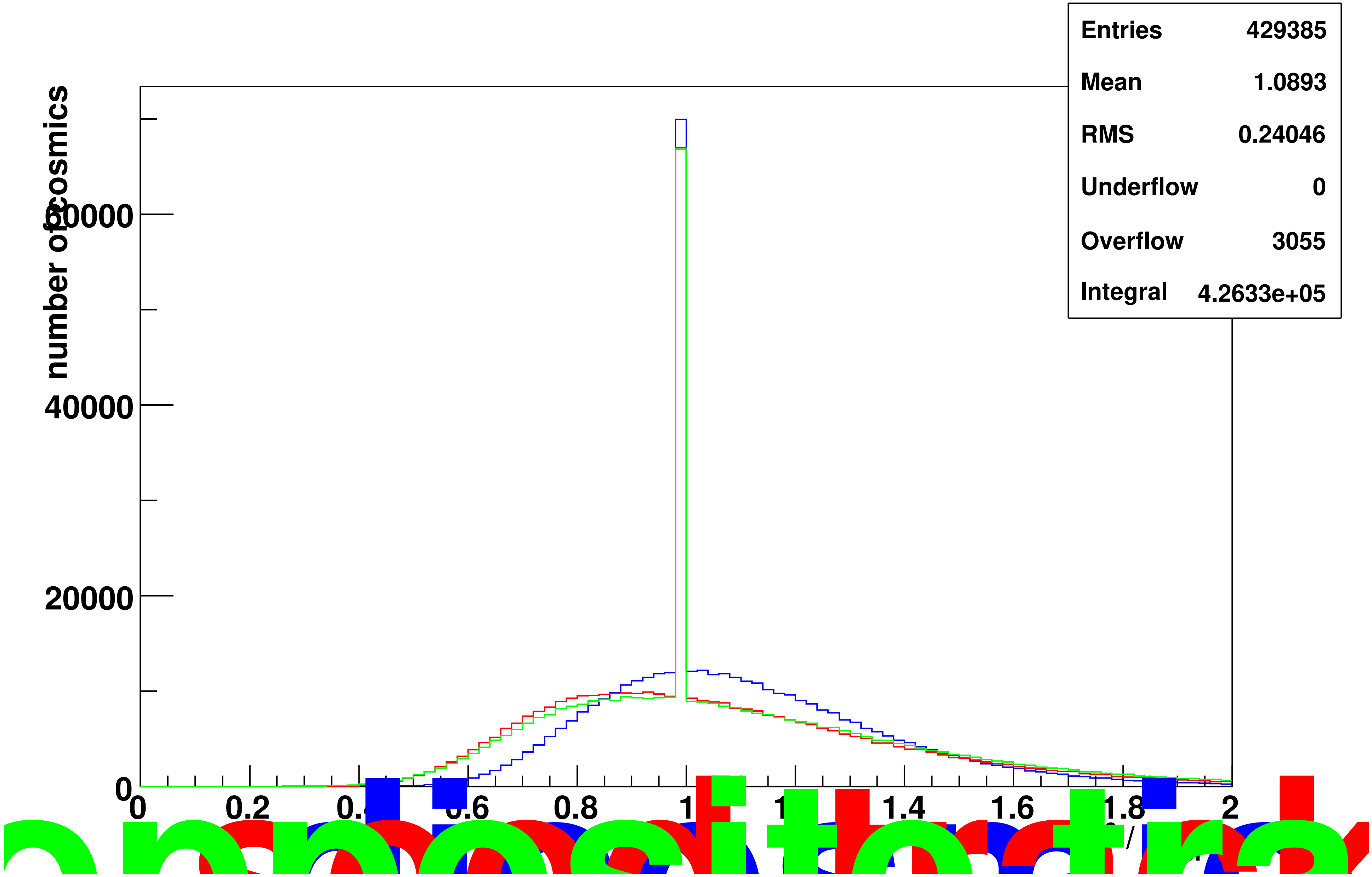


Entries 429385
Mean -0.034865
RMS 1.4589
Underflow 467
Overflow 136
Integral 4.2878e+05
number of cosmics
50000
0
-10
-8
-6
-4
-2
0
2
4
6
8
10
Δ t0 (ns)

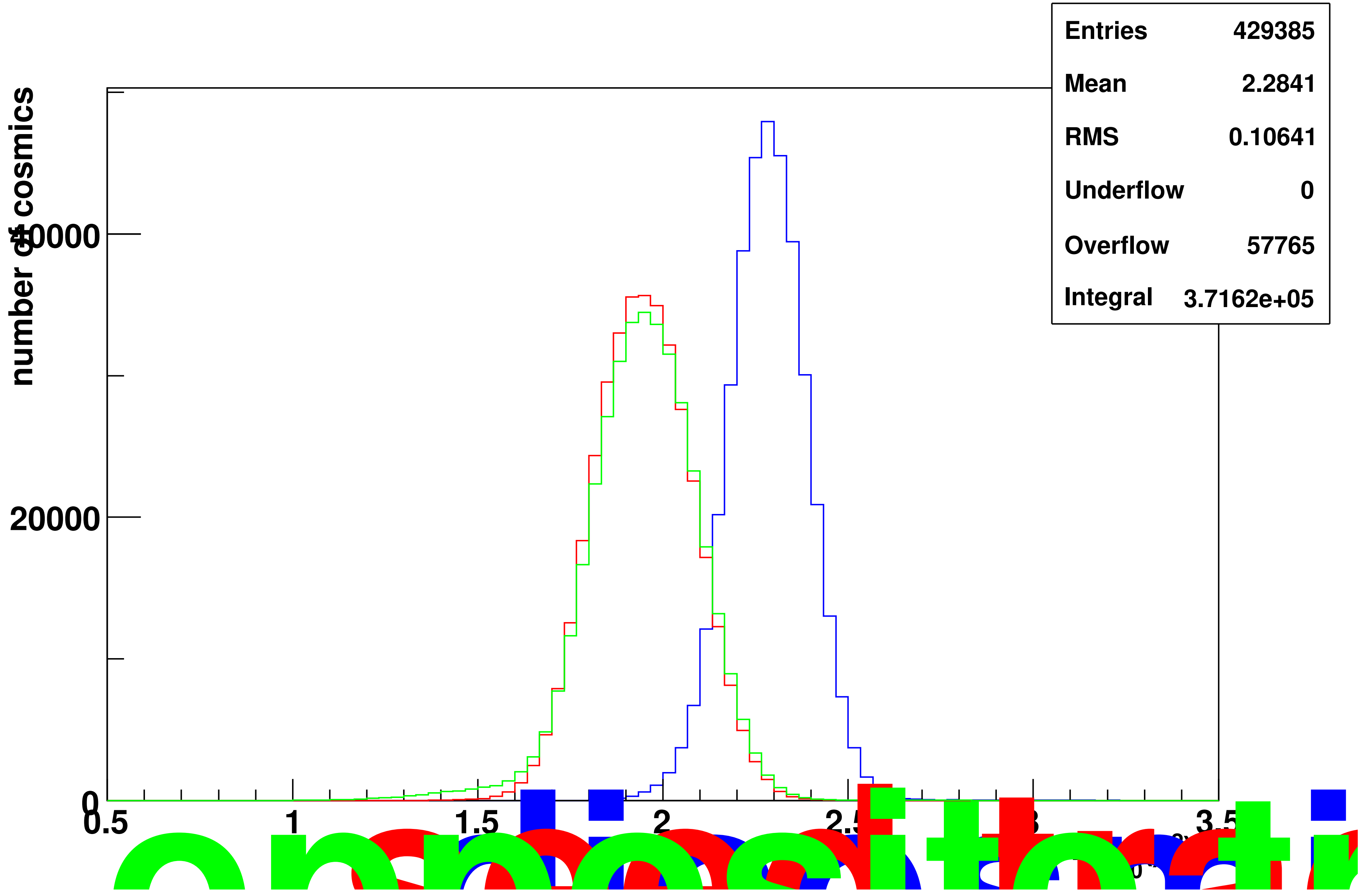


Entries 429385
Mean -8.8507e-06
RMS 0.013585
Underflow 57894
Overflow 165
Integral 3.7133e+05
×10^3
number of cosmics
200
100
0
-0.25
-0.2
-0.15
-0.05
0.05
0.1
0.15

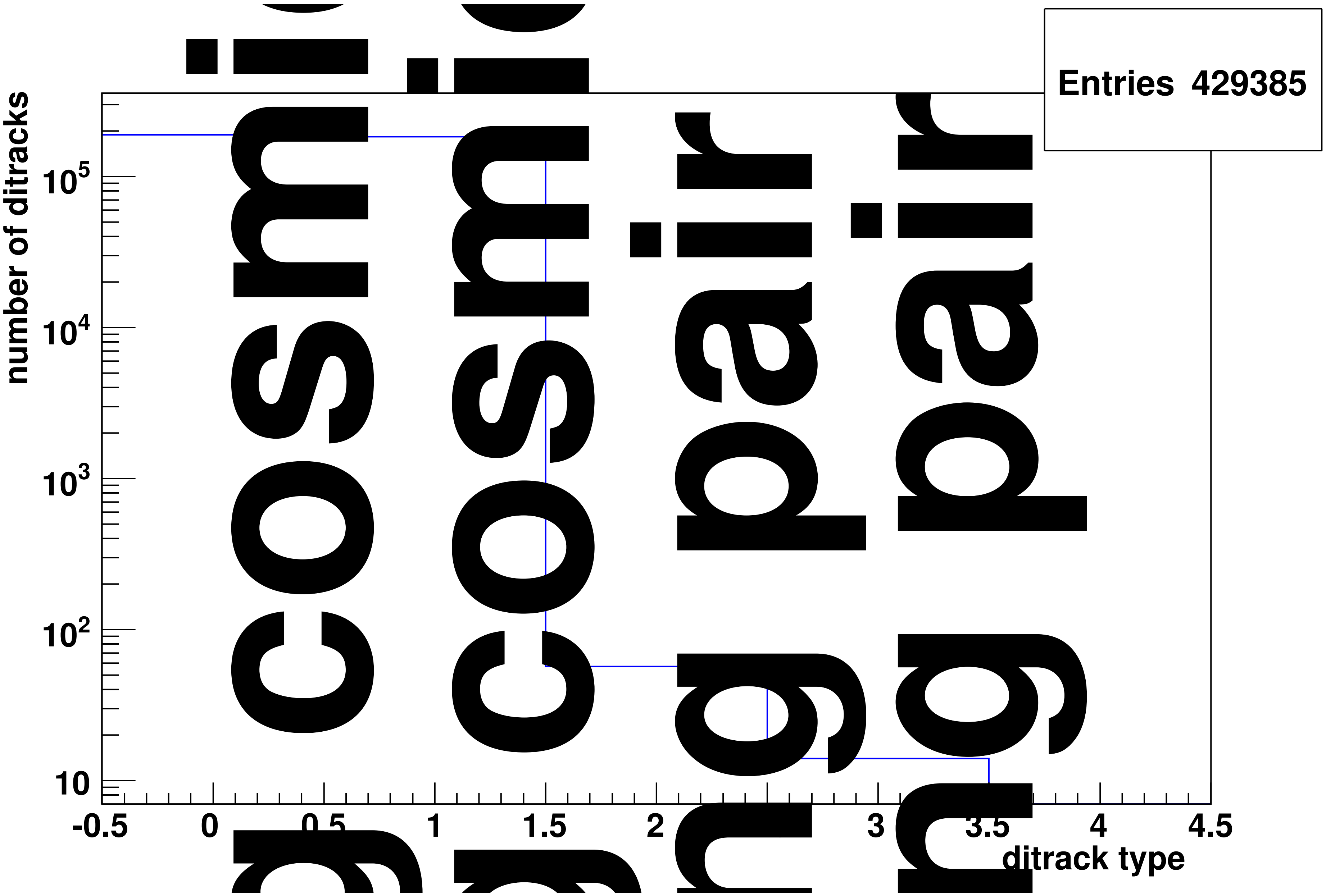

Entries 429385
Mean 93.004
RMS 28.838
Underflow 57742
Overflow 0
Integral 3.7164e+05
number of cosmics
20000
10000
0

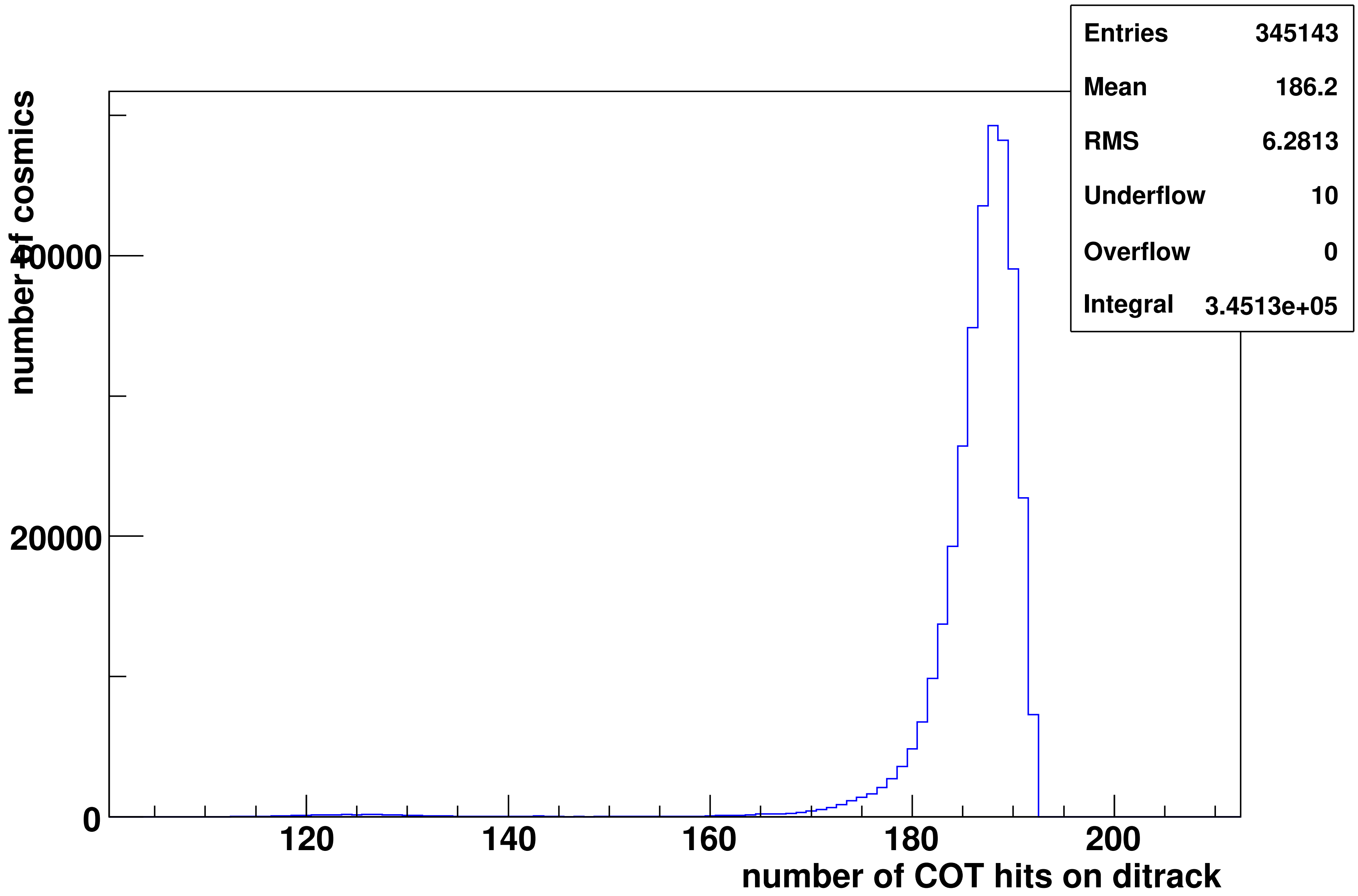


Entries 429385
Mean 1.0893
RMS 0.24046
Underflow 0
Overflow 3055
Integral 4.2633e+05
number of cosmics
0
20000
40000
60000
0
0.2
0.8
1
1.4
1.6
1.8
2

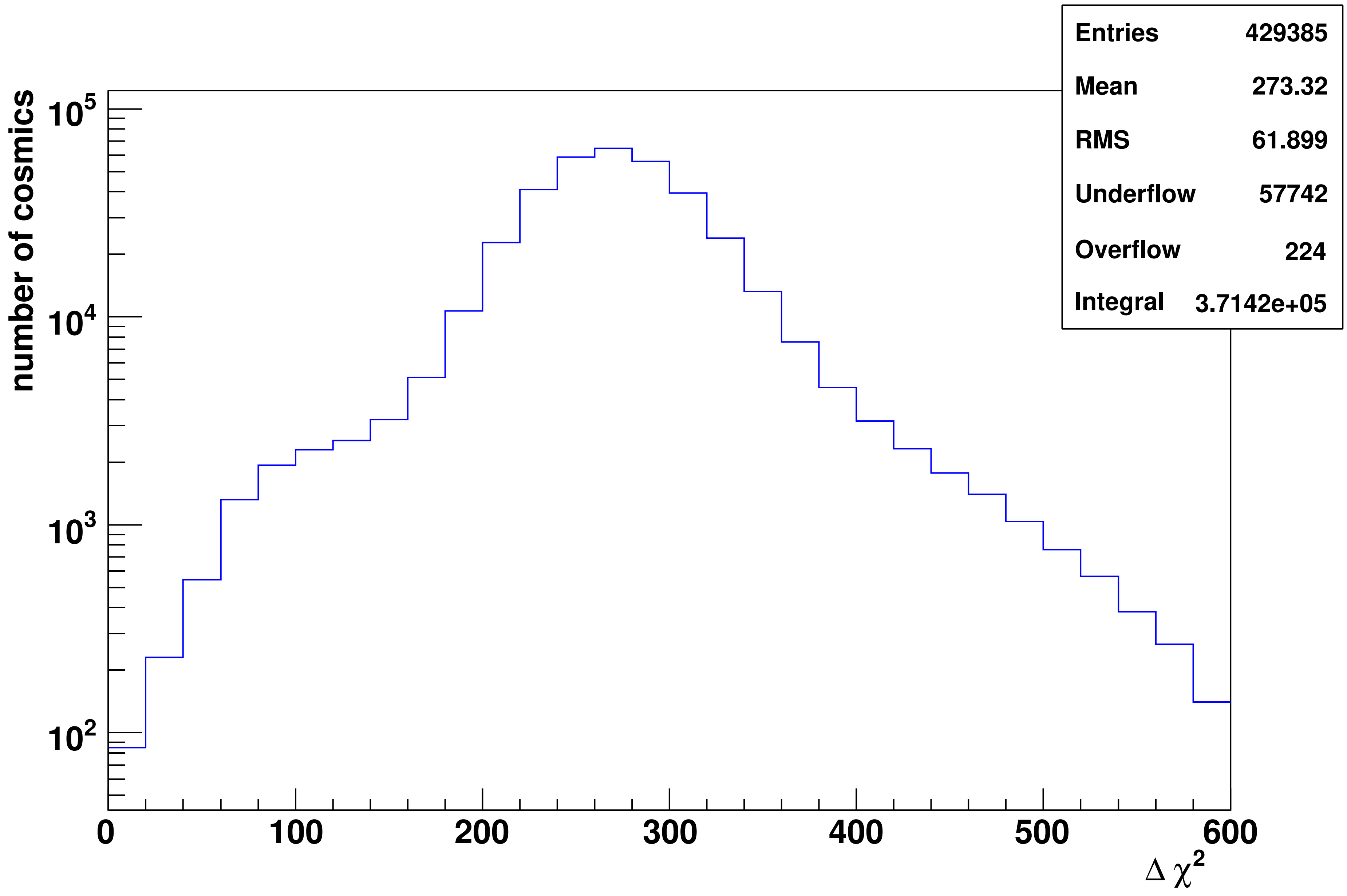


Entries 429385
Mean 2.2841
RMS 0.10641
Underflow 0
Overflow 57765
Integral 3.7162e+05
number of cosmics
40000
20000
0
0.5
1
1.5
2
3.5

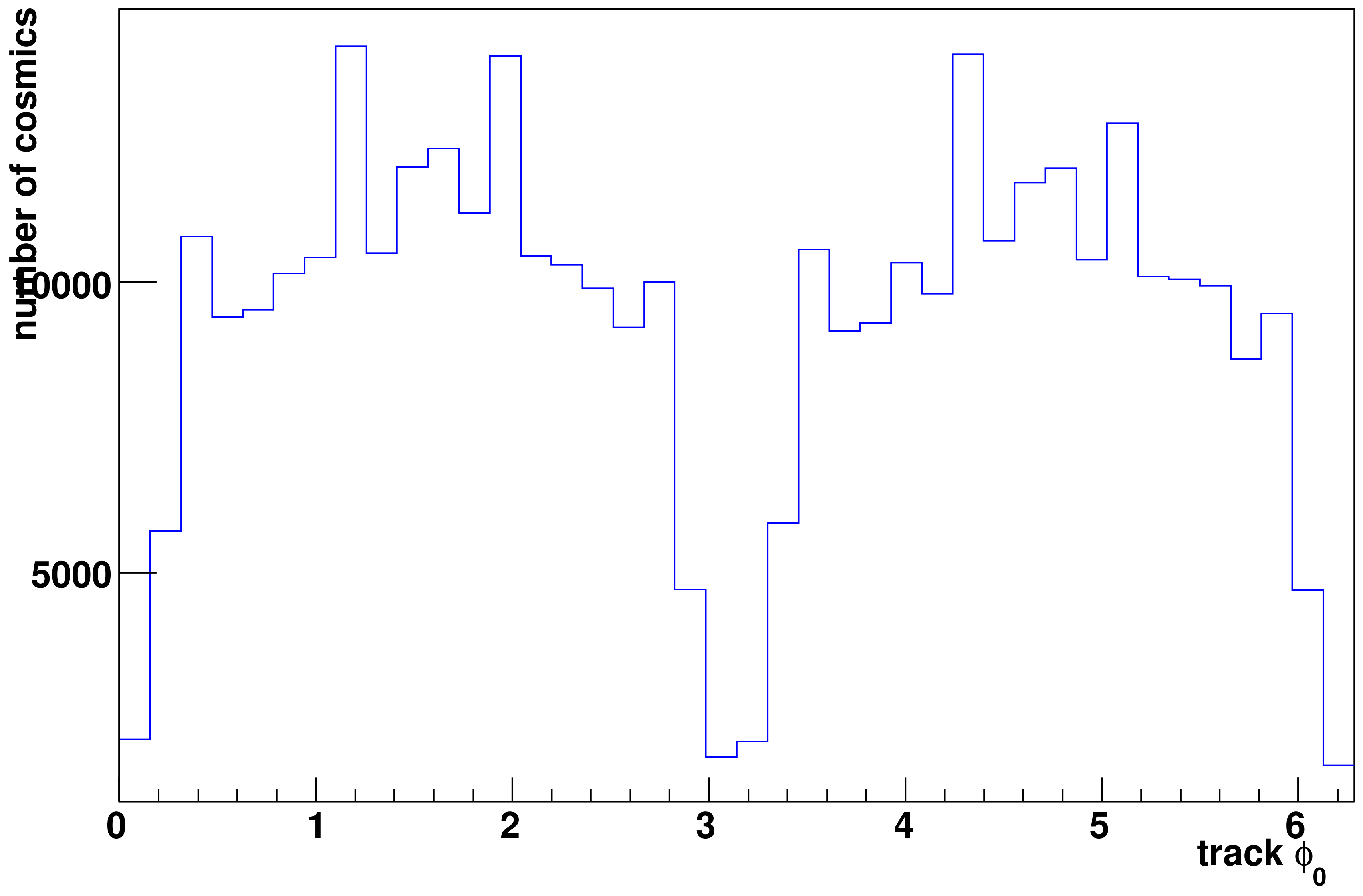

Entries 429385
number of ditracks
ditrack type
10
10^2
10^3
10^4
10^5
-0.5
0
0.5
1
1.5
2
3
3.5
4
4.5



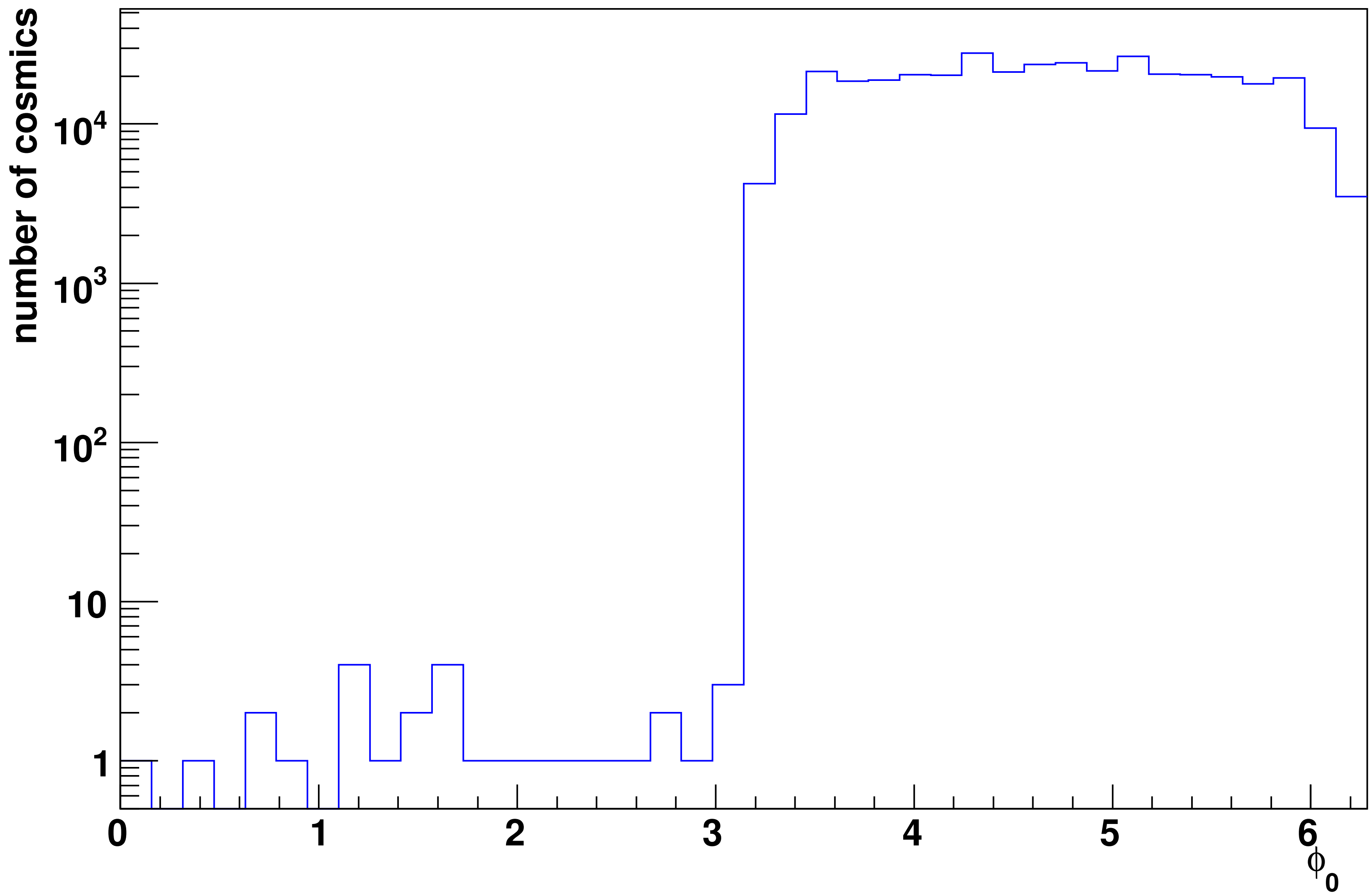
Entries 345143
Mean 186.2
RMS 6.2813
Underflow 10
Overflow 0
Integral 3.4513e+05
number of cosmics
40000
20000
0
120
140
160
180
200
number of COT hits on ditrack



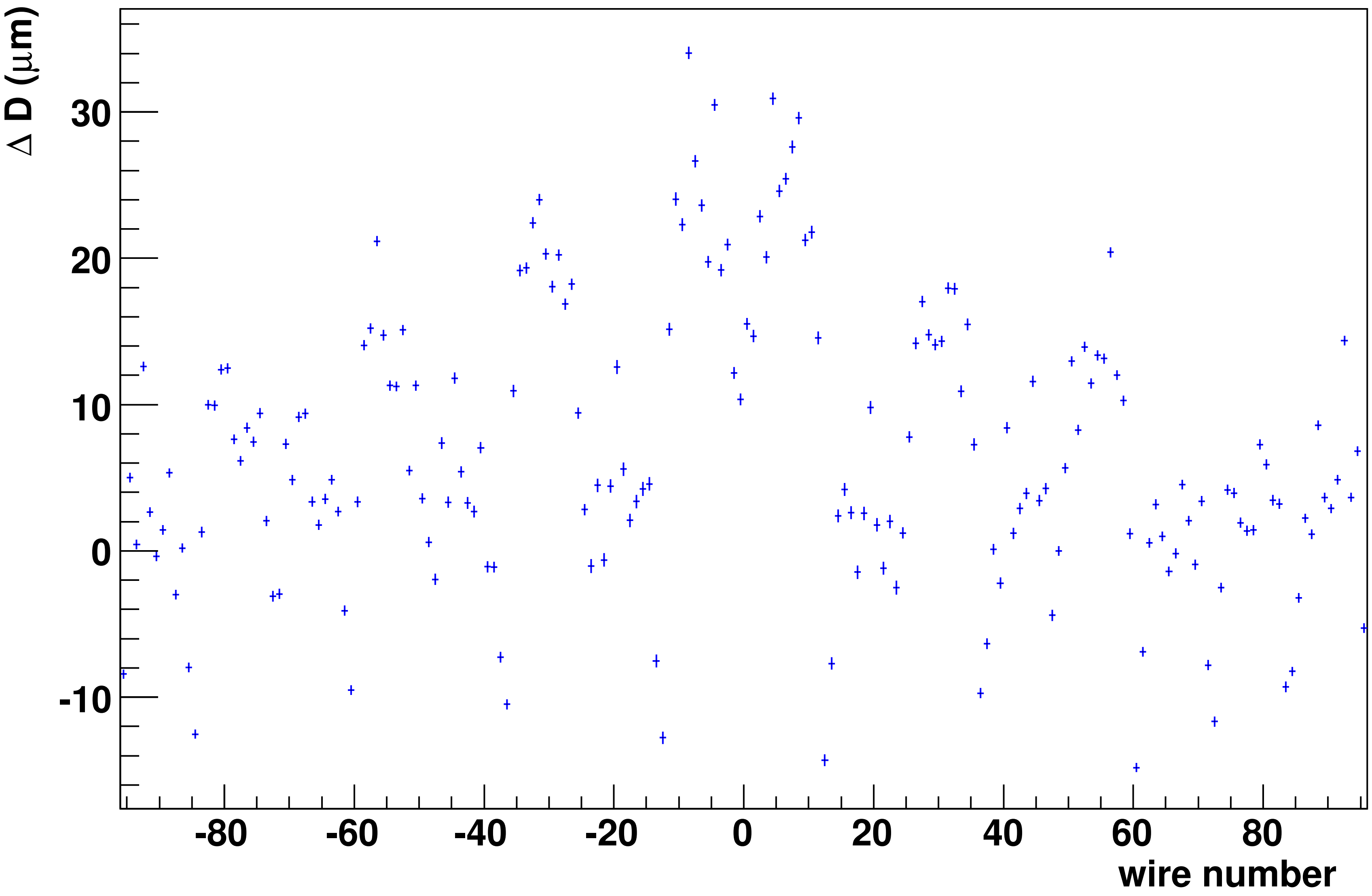
Entries 429385
Mean 273.32
RMS 61.899
Underflow 57742
Overflow 224
Integral 3.7142e+05
number of cosmics
10^5
10^4
10^3
10^2
0
100
200
300
400
500
600
$\Delta \chi^2$

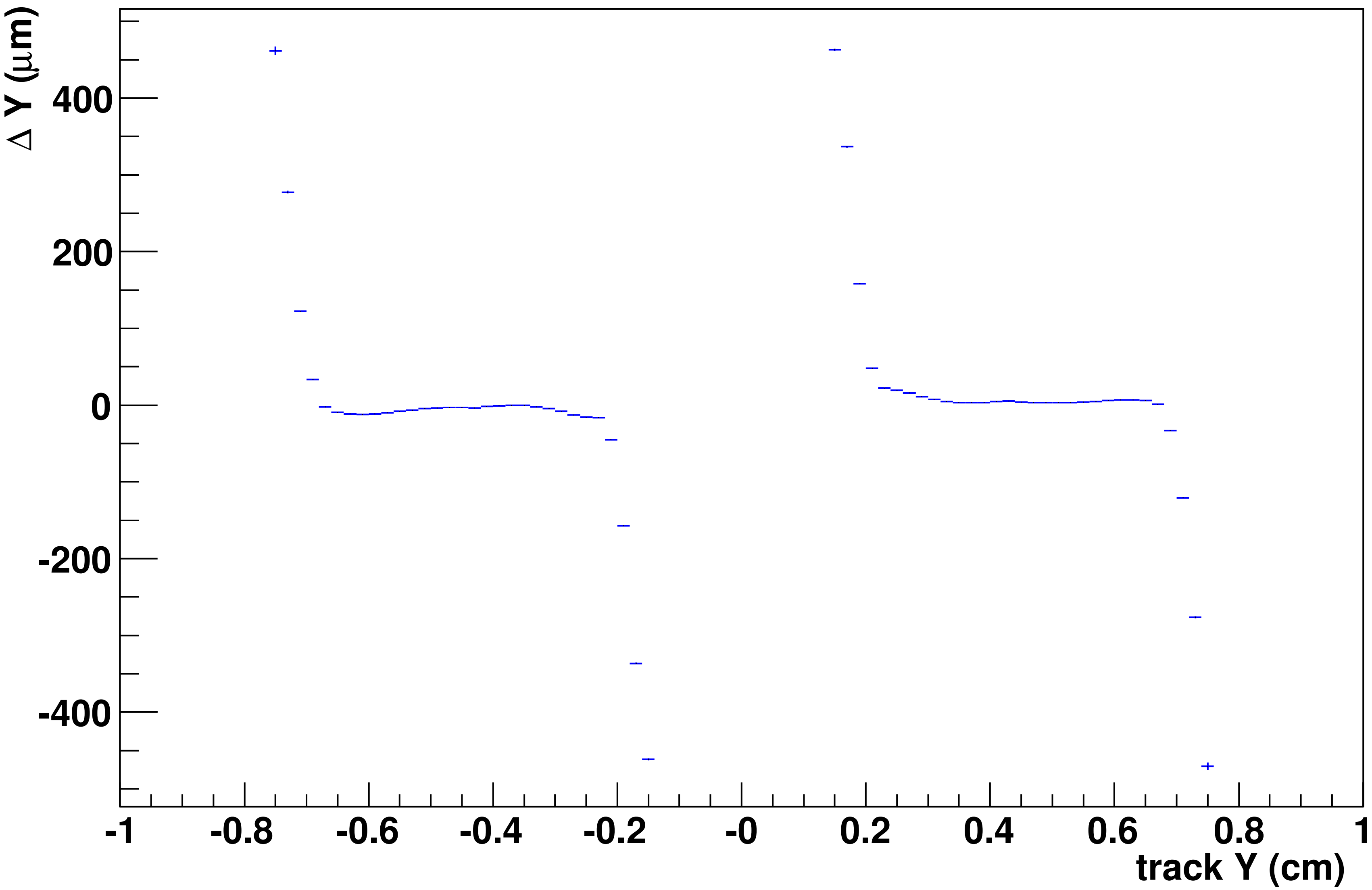


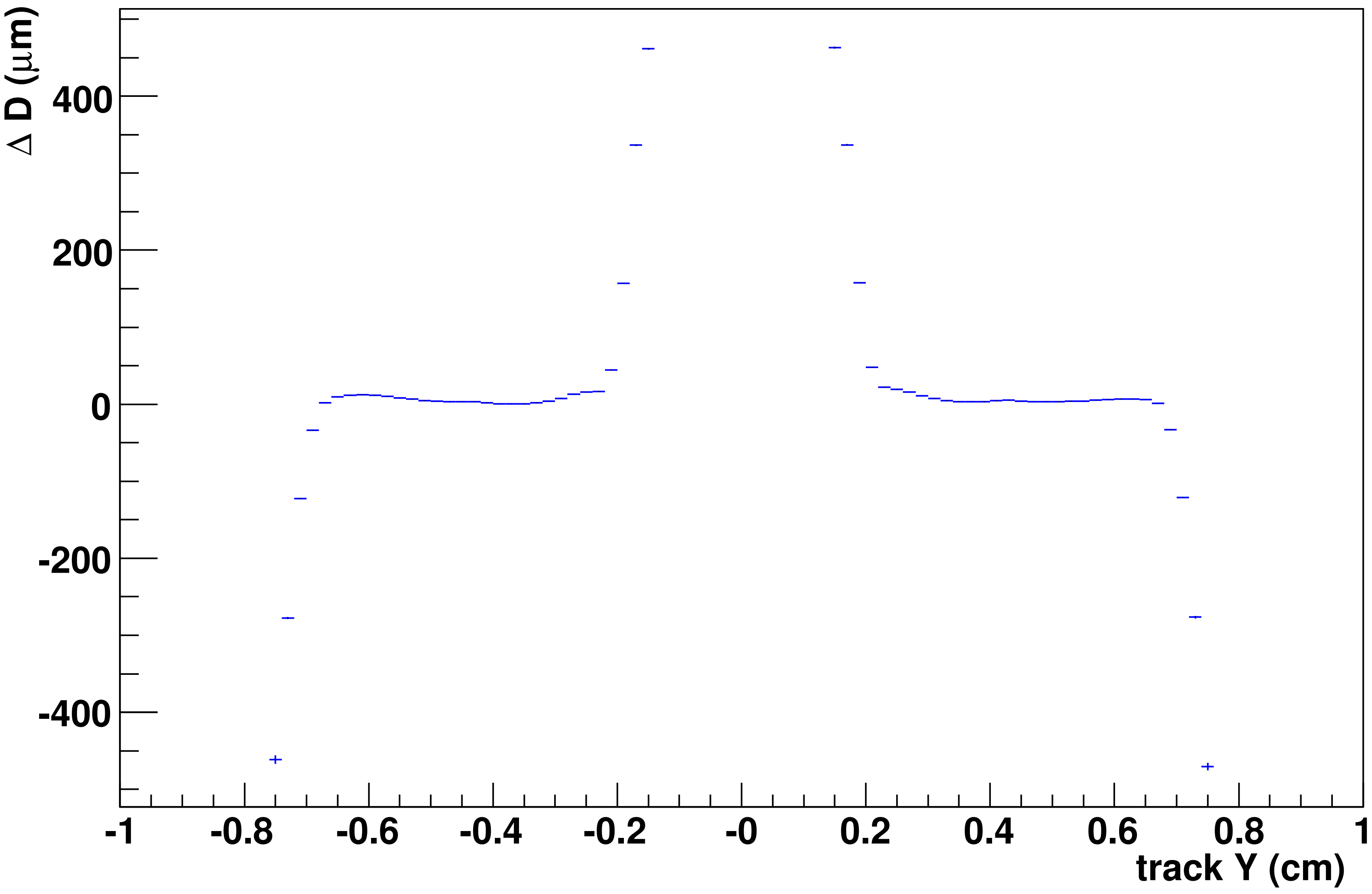
number of cosmics
10000
5000
0
1
2
3
4
5
6
track ϕ_0



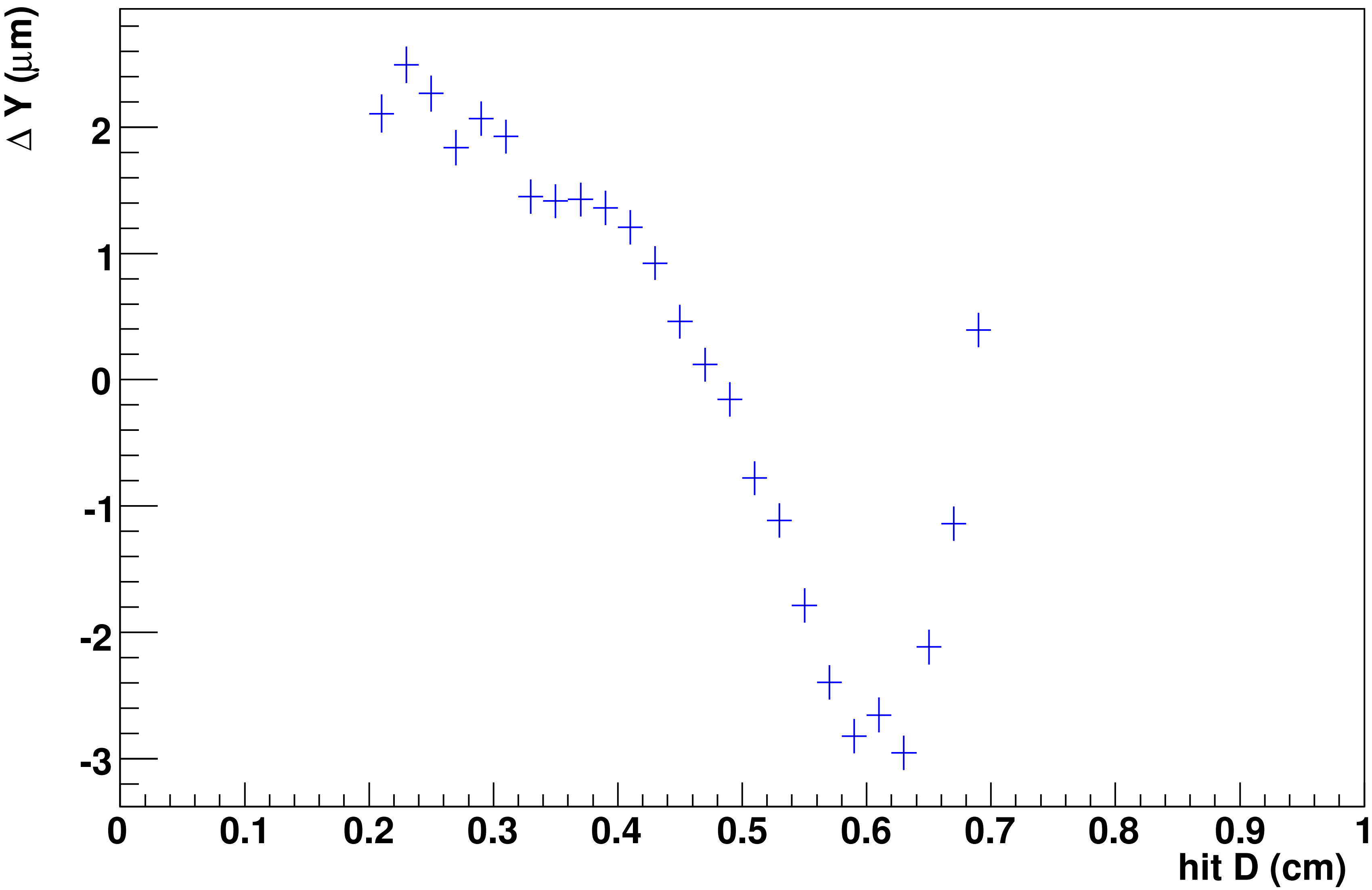
number of cosmics
10^4
10^3
10^2
10
1
0
1
2
3
4
5
6
ϕ_0


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

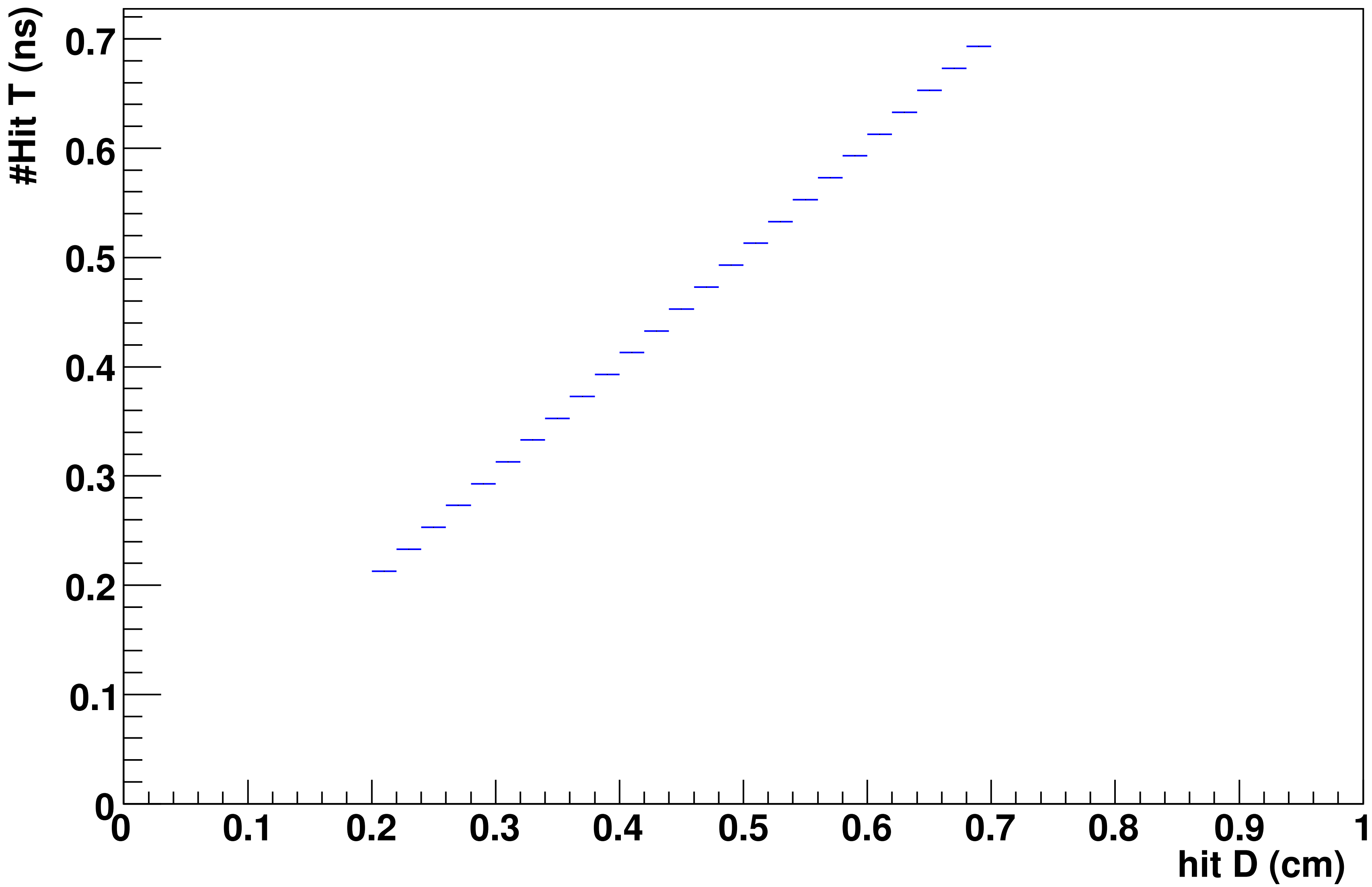

Δ Y (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)



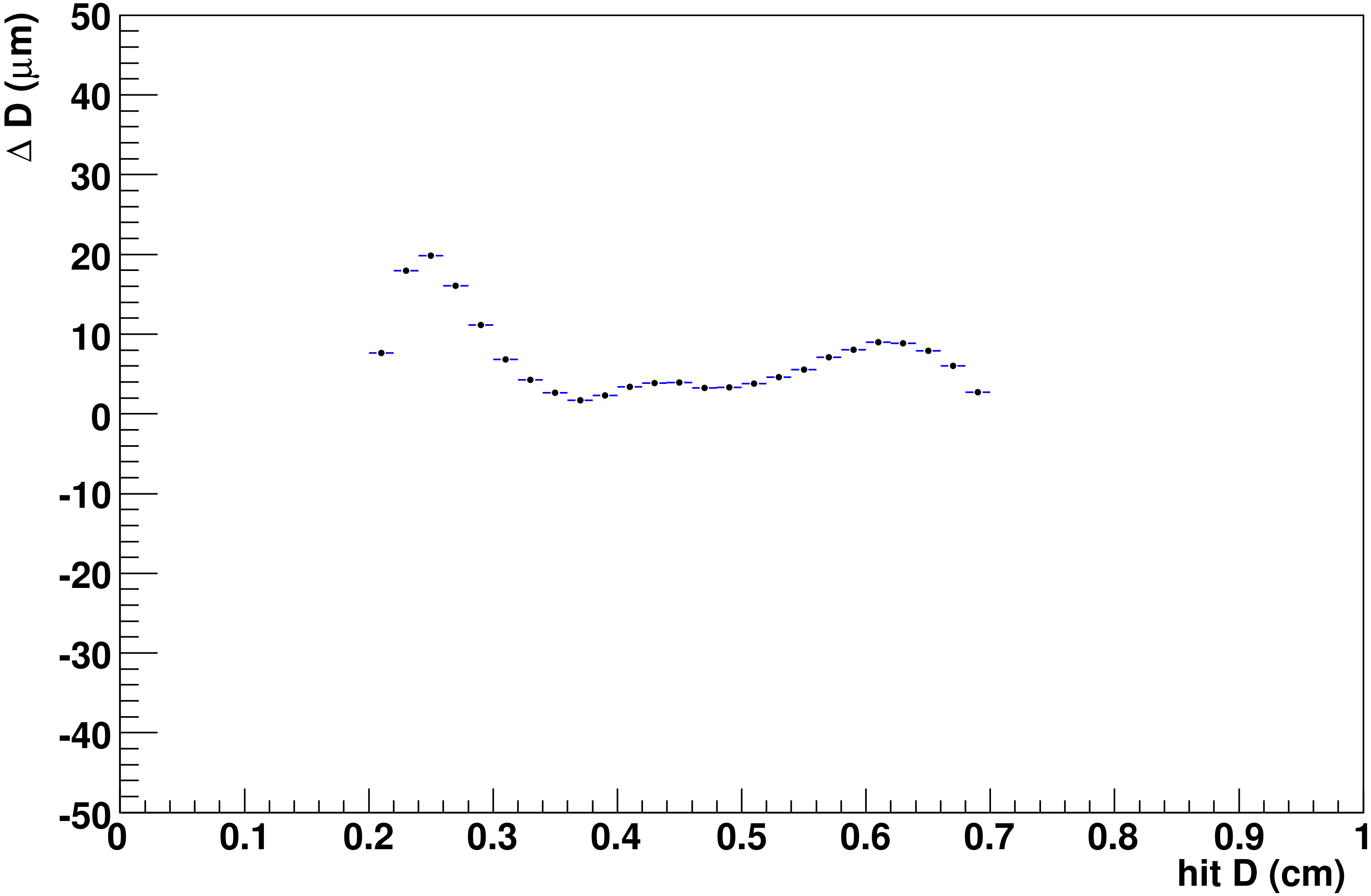
Δ D (μm)
400
200
0
-200
-400
-1
-0.8
-0.6
-0.4
-0.2
-0
0.2
0.4
0.6
0.8
1
track Y (cm)



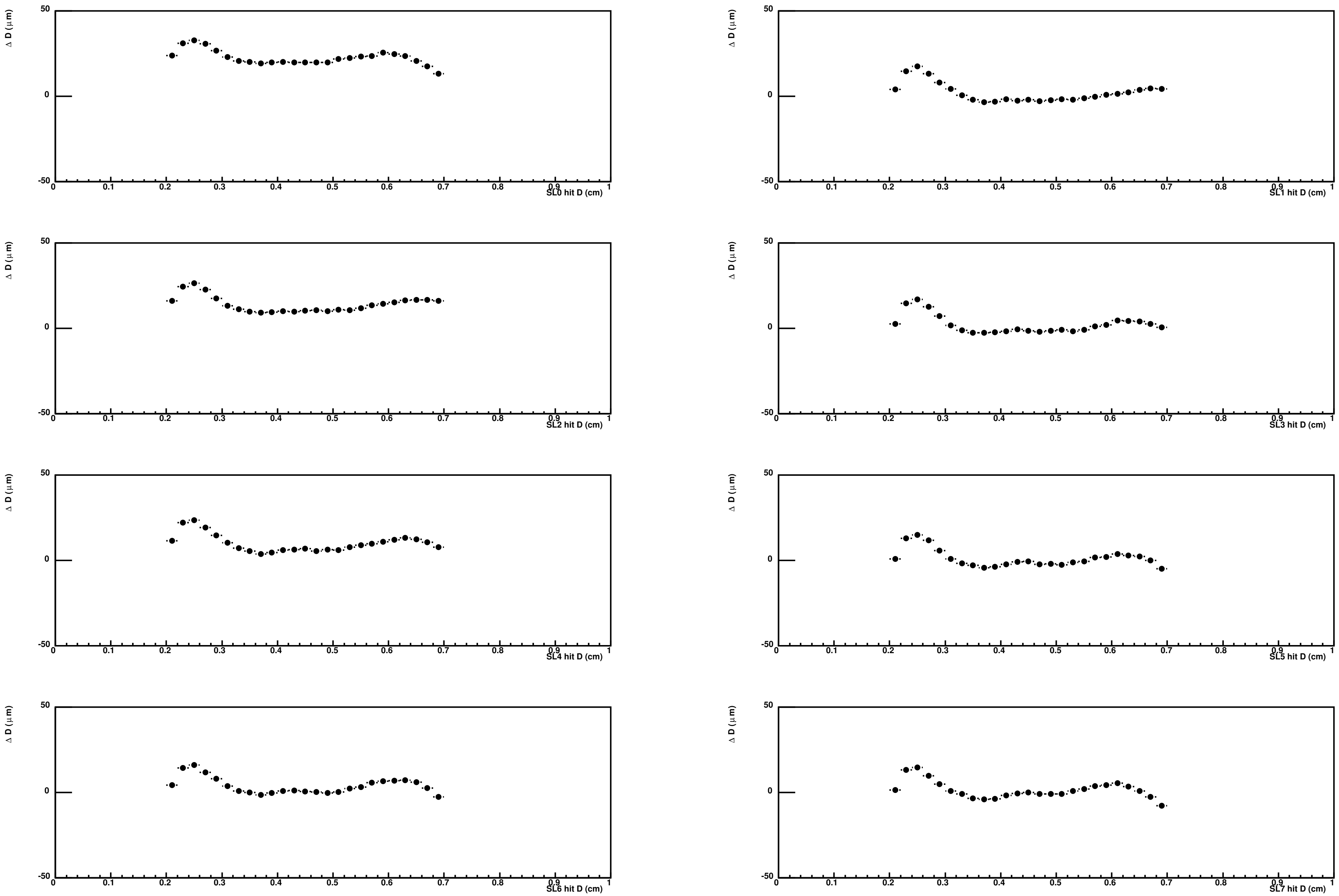
Δ Y (μm)
2
1
0
-1
-2
-3
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)



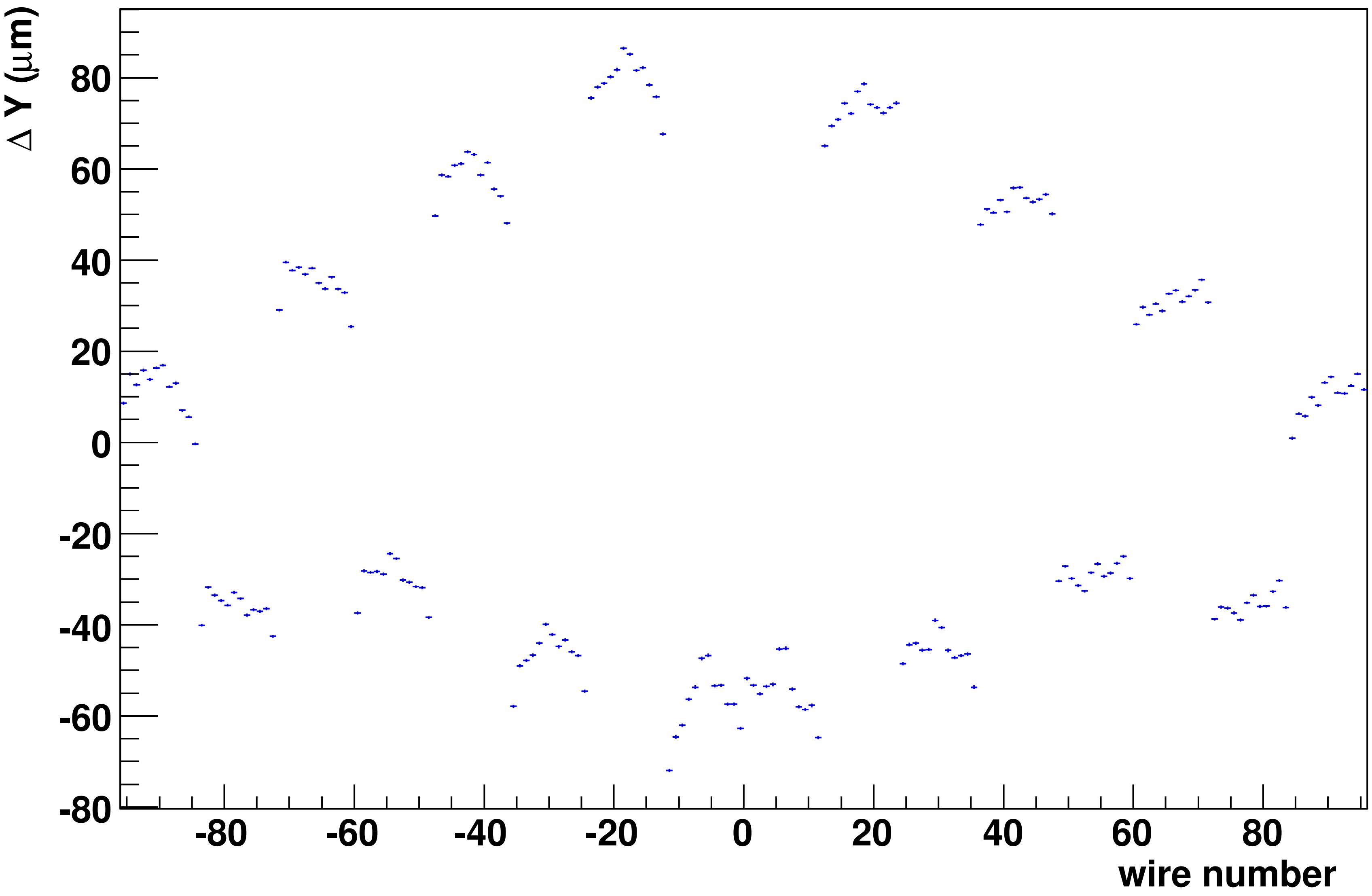
#Hit T (ns)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)



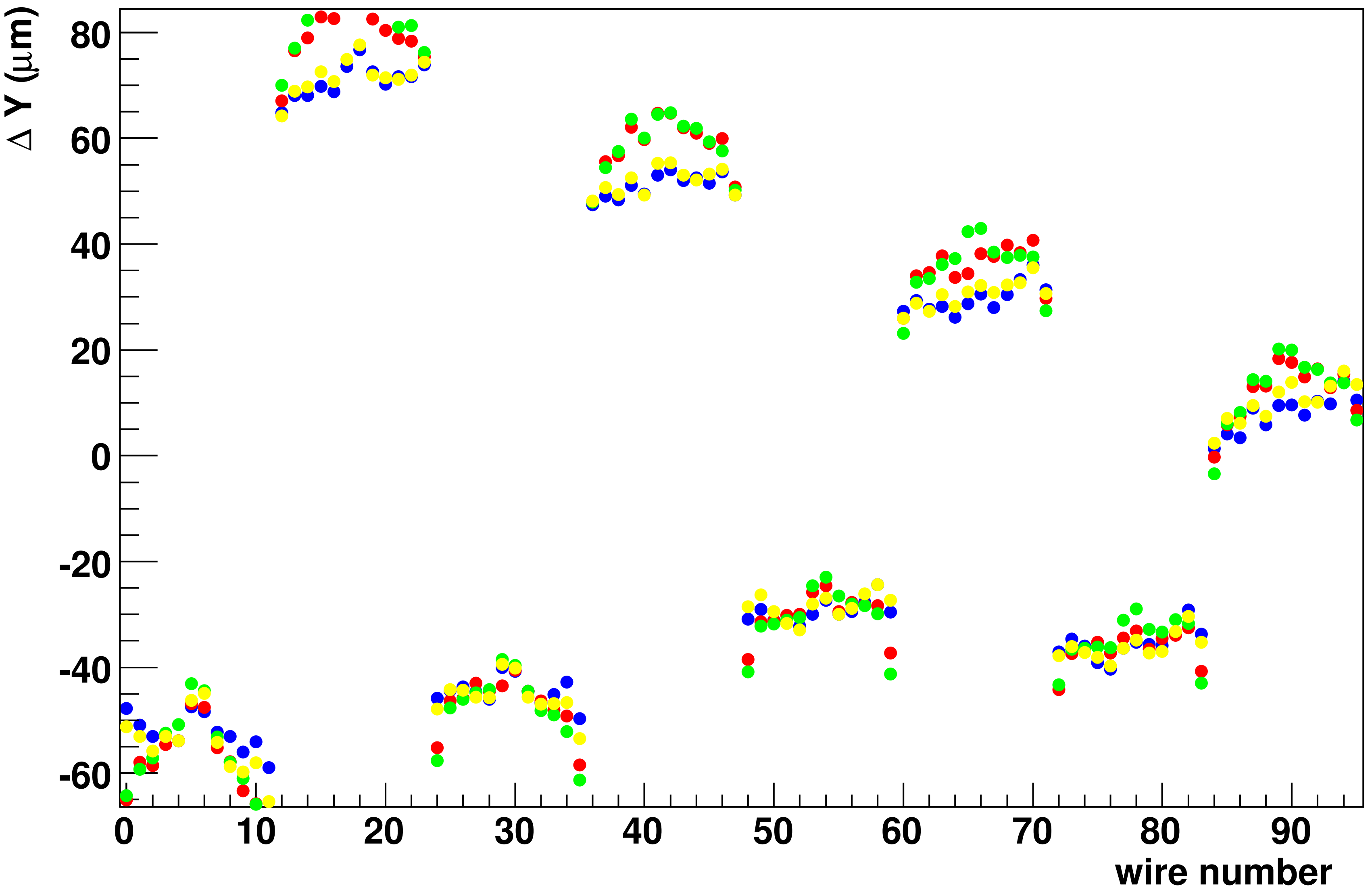
Δ D (μm)
50
40
30
20
10
0
-10
-20
-30
-40
-50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
hit D (cm)



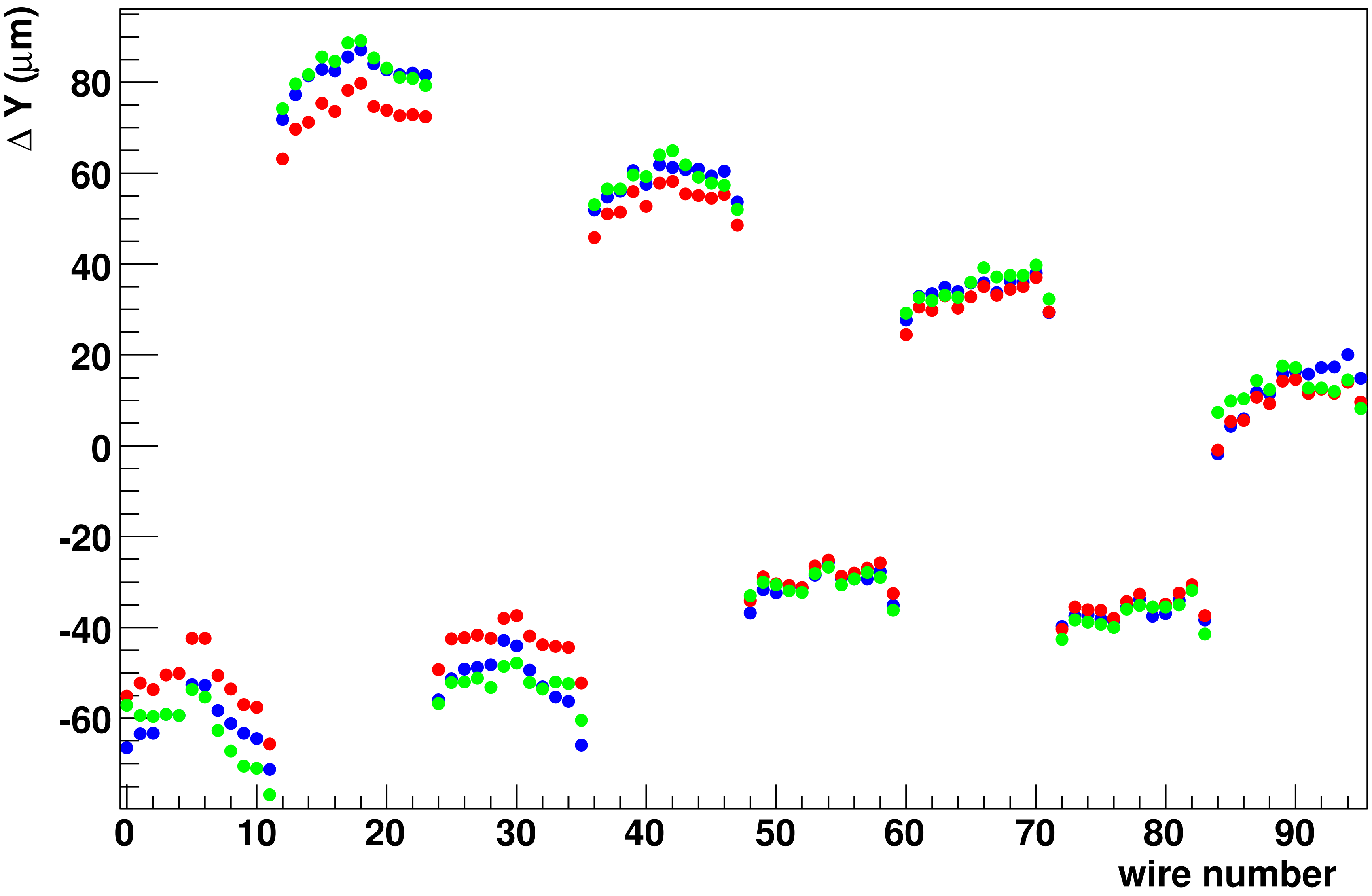
Δ D (μm)
SL0 hit D (cm)
SL1 hit D (cm)
SL2 hit D (cm)
SL3 hit D (cm)
SL4 hit D (cm)
SL5 hit D (cm)
SL6 hit D (cm)
SL7 hit D (cm)



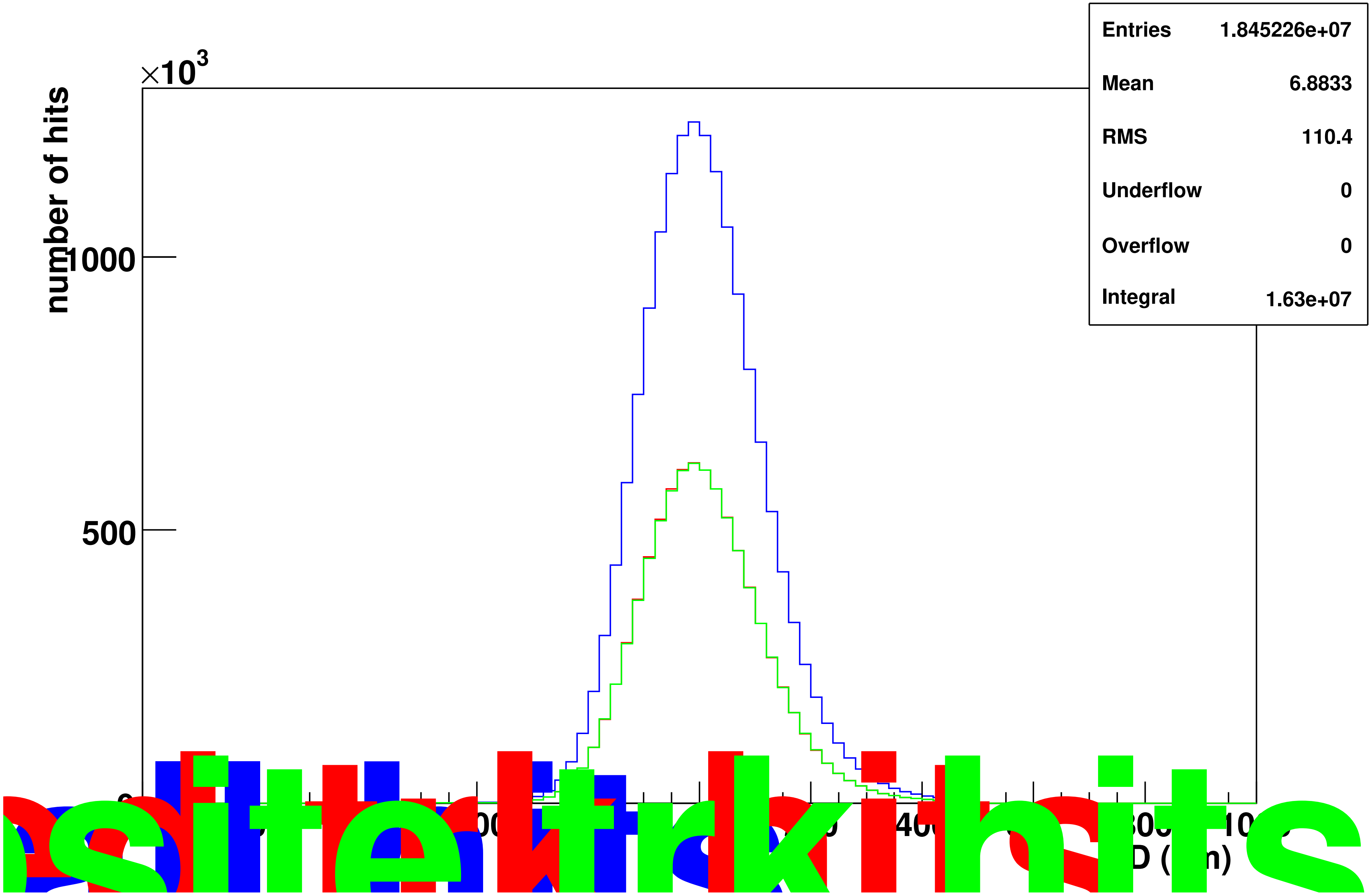
Δ Y (μm)
80
60
40
20
0
-20
-40
-60
-80
-80
-60
-40
-20
0
20
40
60
80
wire number



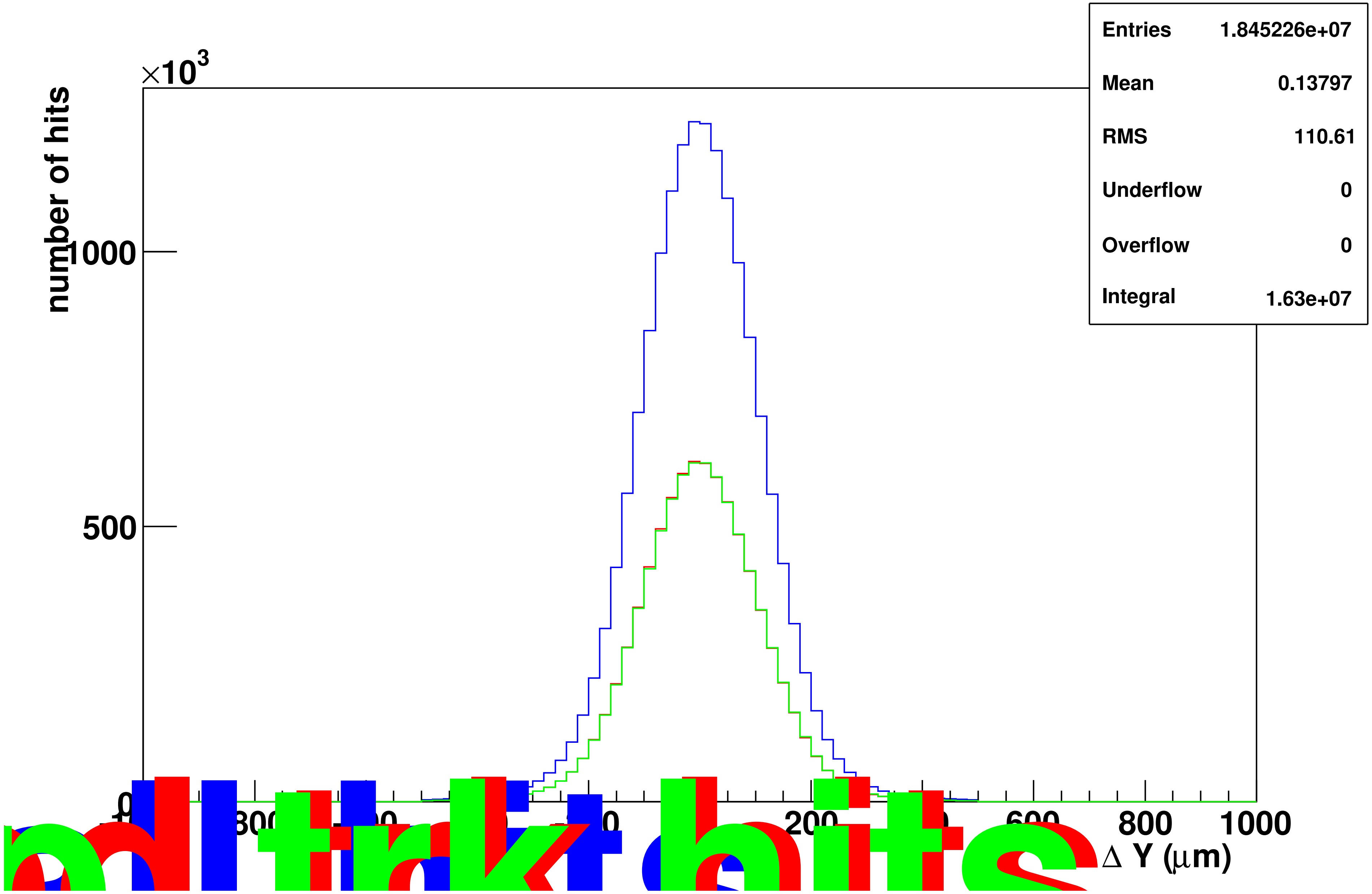
Δ Y (μm)
80
60
40
20
0
-20
-40
-60
0
10
20
30
40
50
60
70
80
90
wire number



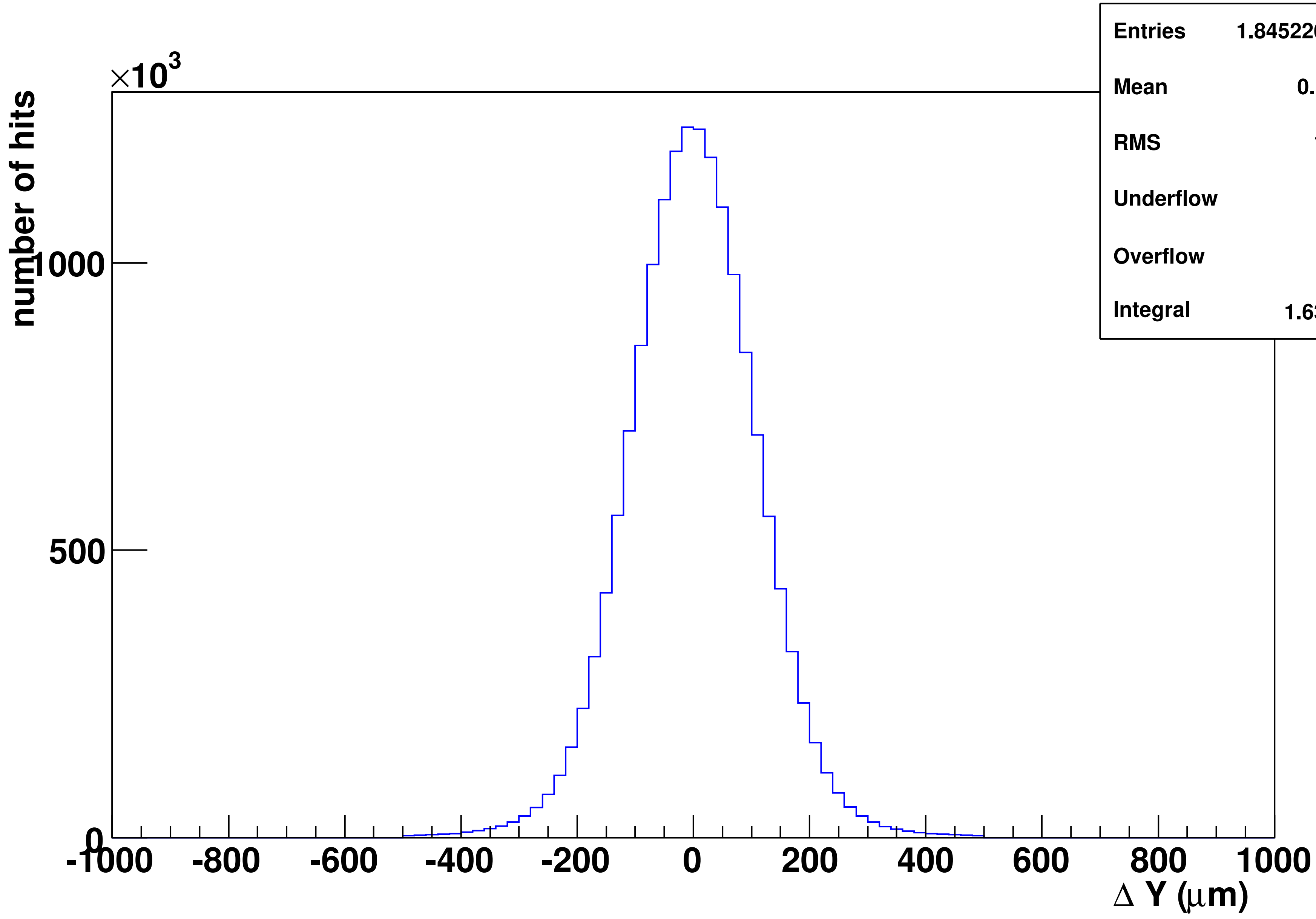
Δ Y (μm)
80
60
40
20
0
-20
-40
-60
0
10
20
30
40
50
60
70
80
90
wire number



×10^3
number of hits
1000
500
Entries 1.845226e+07
Mean 6.8833
RMS 110.4
Underflow 0
Overflow 0
Integral 1.63e+07



Entries 1.845226e+07
Mean 0.13797
RMS 110.61
Underflow 0
Overflow 0
Integral 1.63e+07
×10^3
number of hits
1000
500
0
200
600
800
1000
Δ Y (μm)



Entries 1.845226e+07
Mean 0.13797
RMS 110.61
Underflow 0
Overflow 0
Integral 1.63e+07
$\times 10^3$
number of hits
1000
500
0
-1000
-800
-600
-400
-200
0
200
400
600
800
1000
Δ Y (μm)