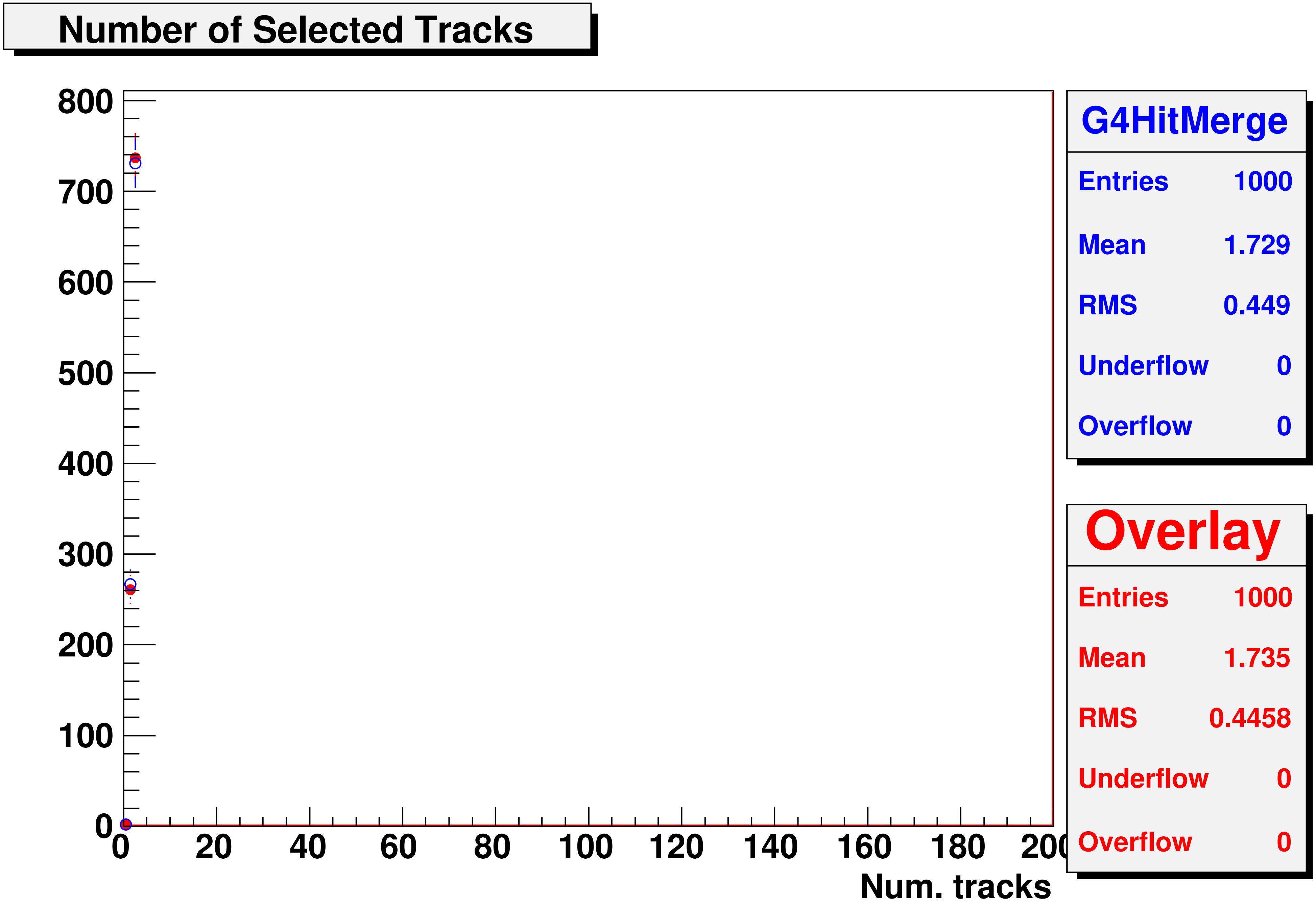
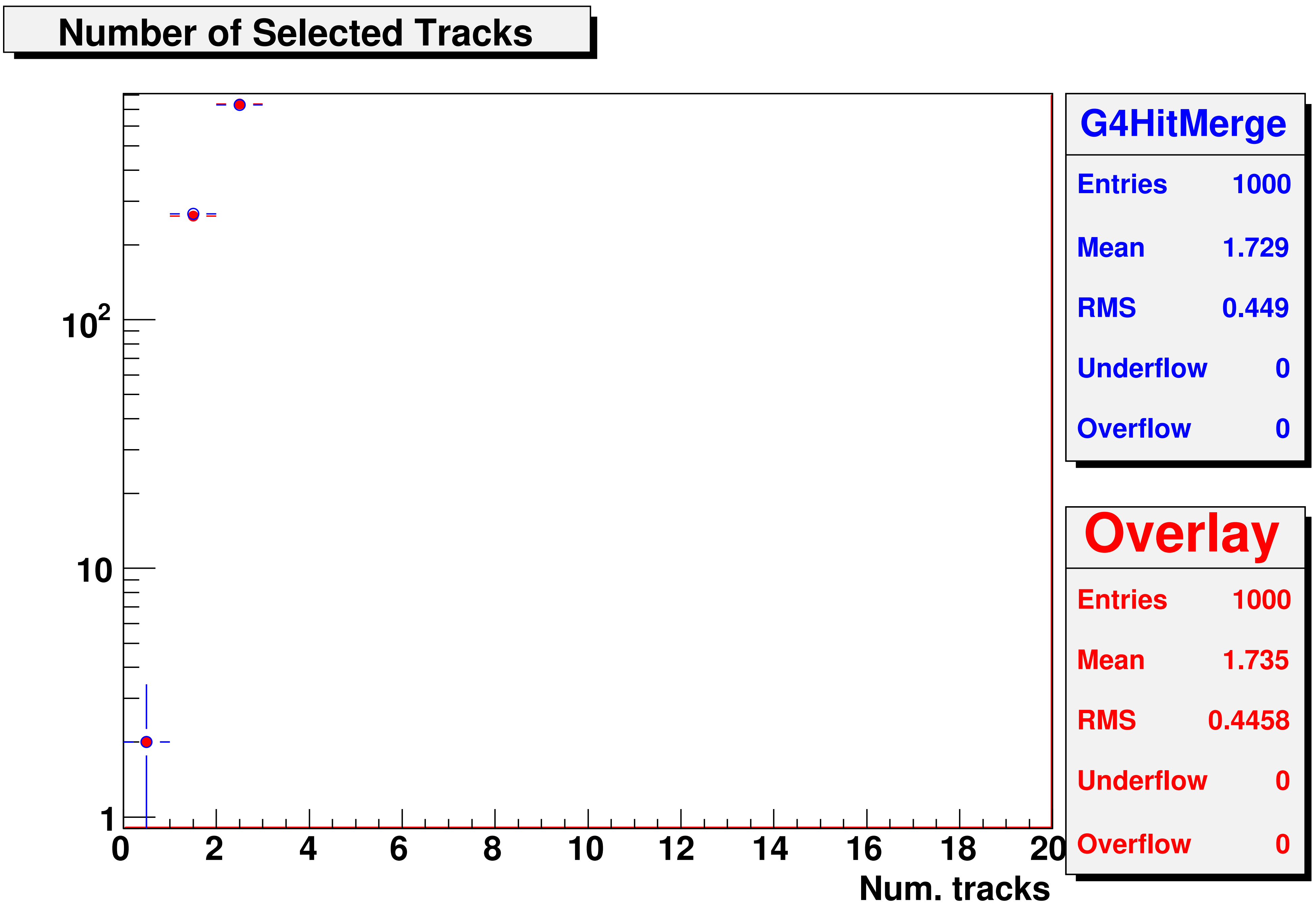
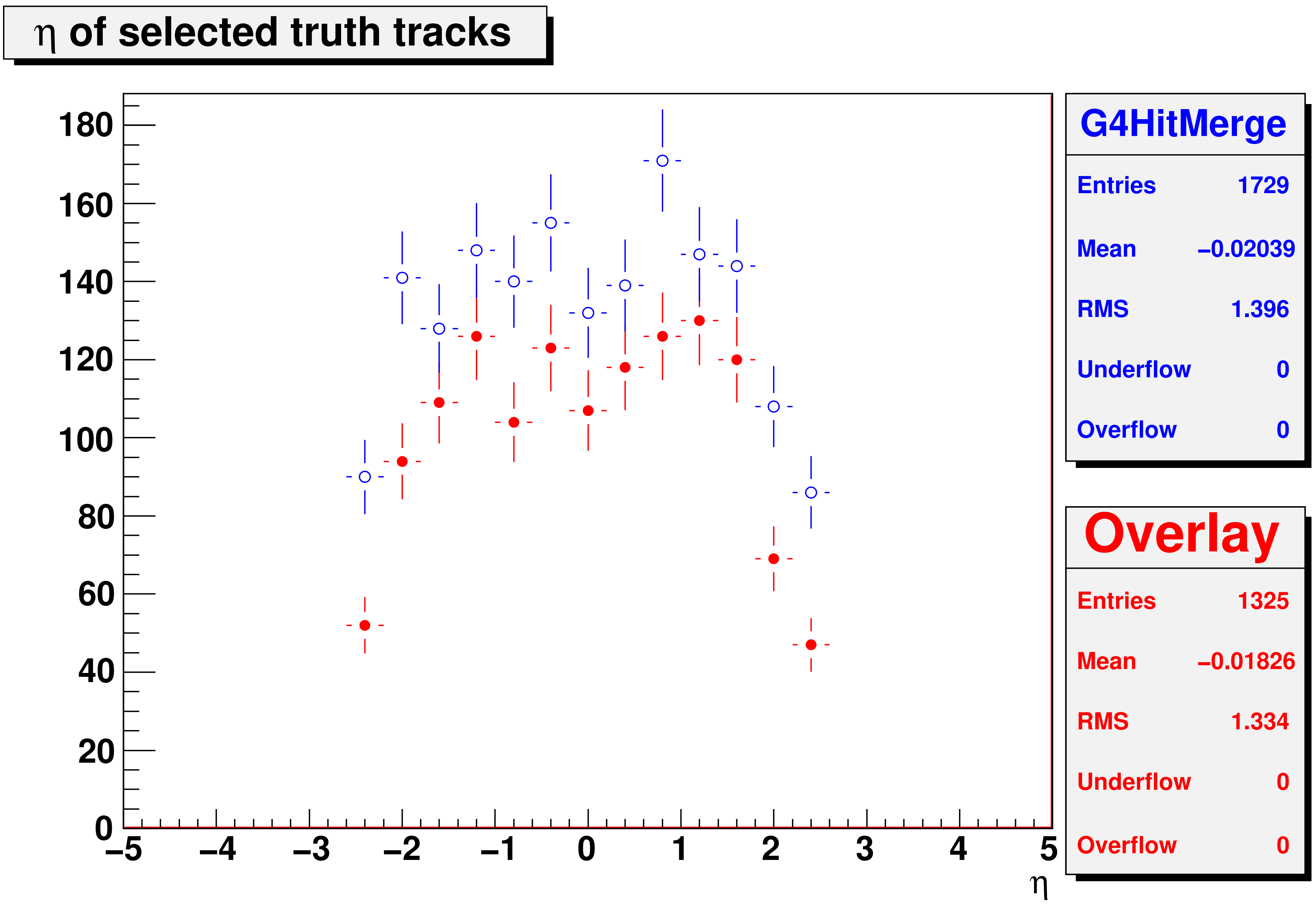
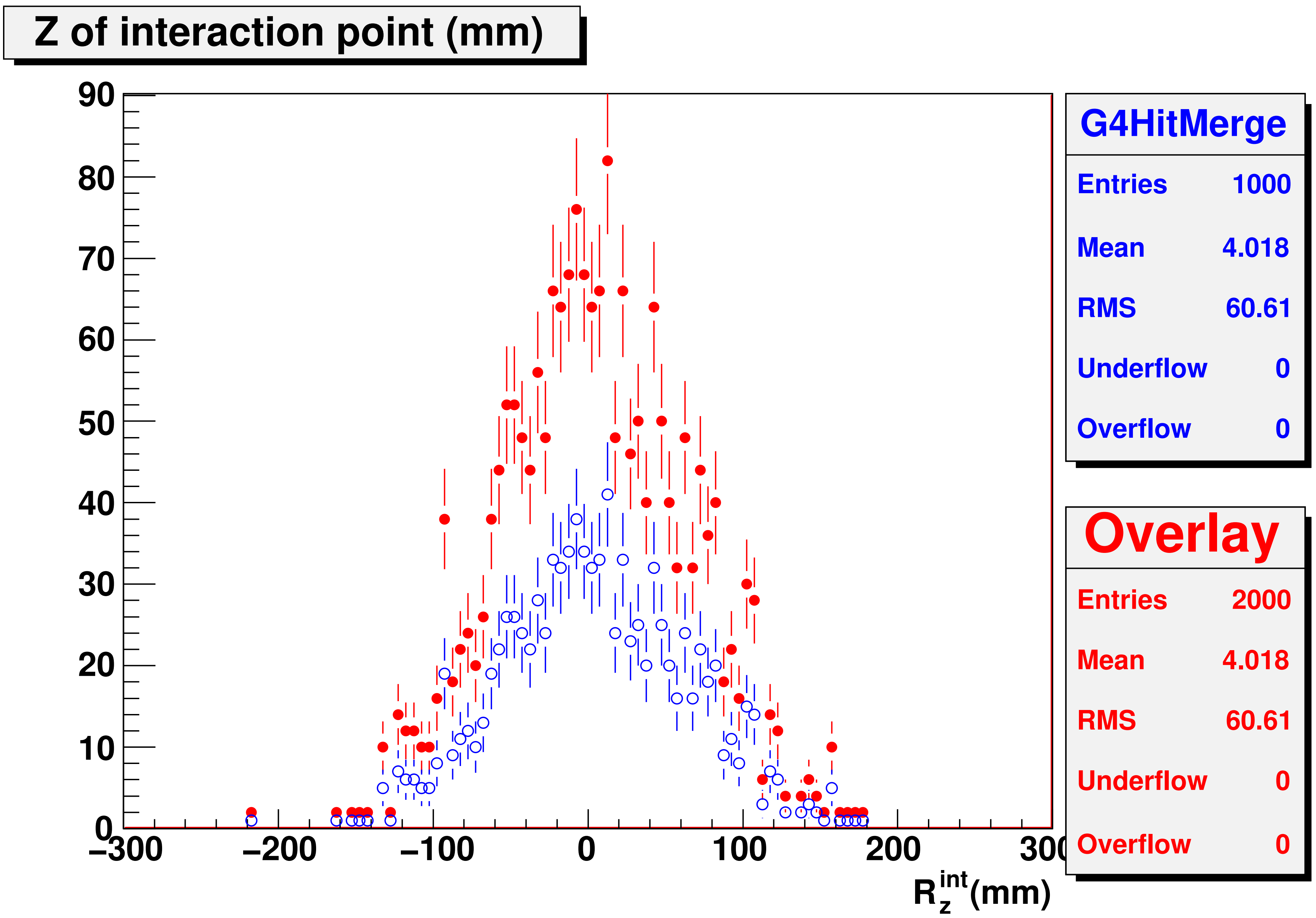


Number of Selected Tracks
800
700
600
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
180
200
Num. tracks
G4HitMerge
Entries 1000
Mean 1.729
RMS 0.449
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.735
RMS 0.4458
Underflow 0
Overflow 0

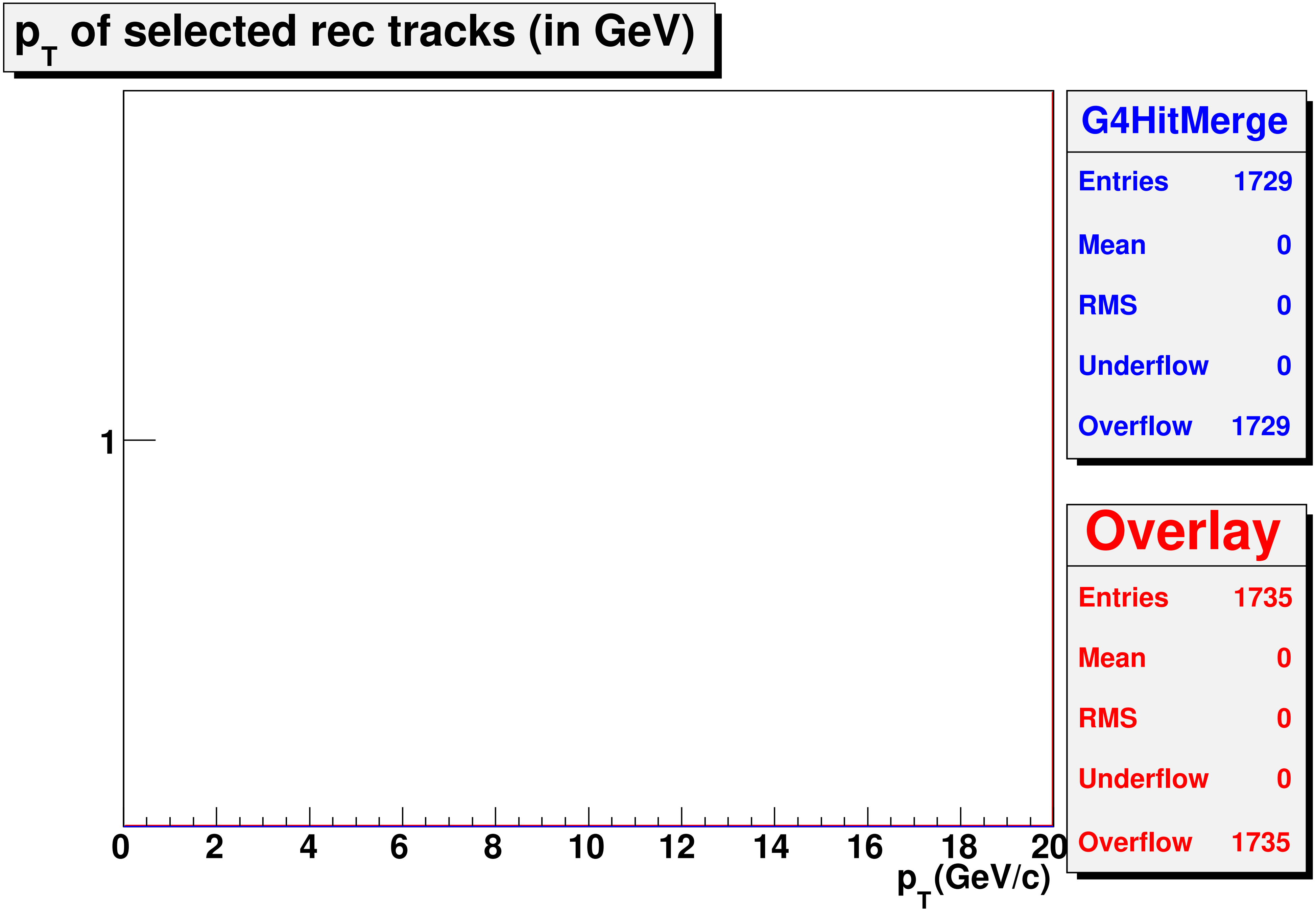

Number of Selected Tracks
G4HitMerge
Entries 1000
Mean 1.729
RMS 0.449
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.735
RMS 0.4458
Underflow 0
Overflow 0
1
10
10^2
0 2 4 6 8 10 12 14 16 18 20
Num. tracks



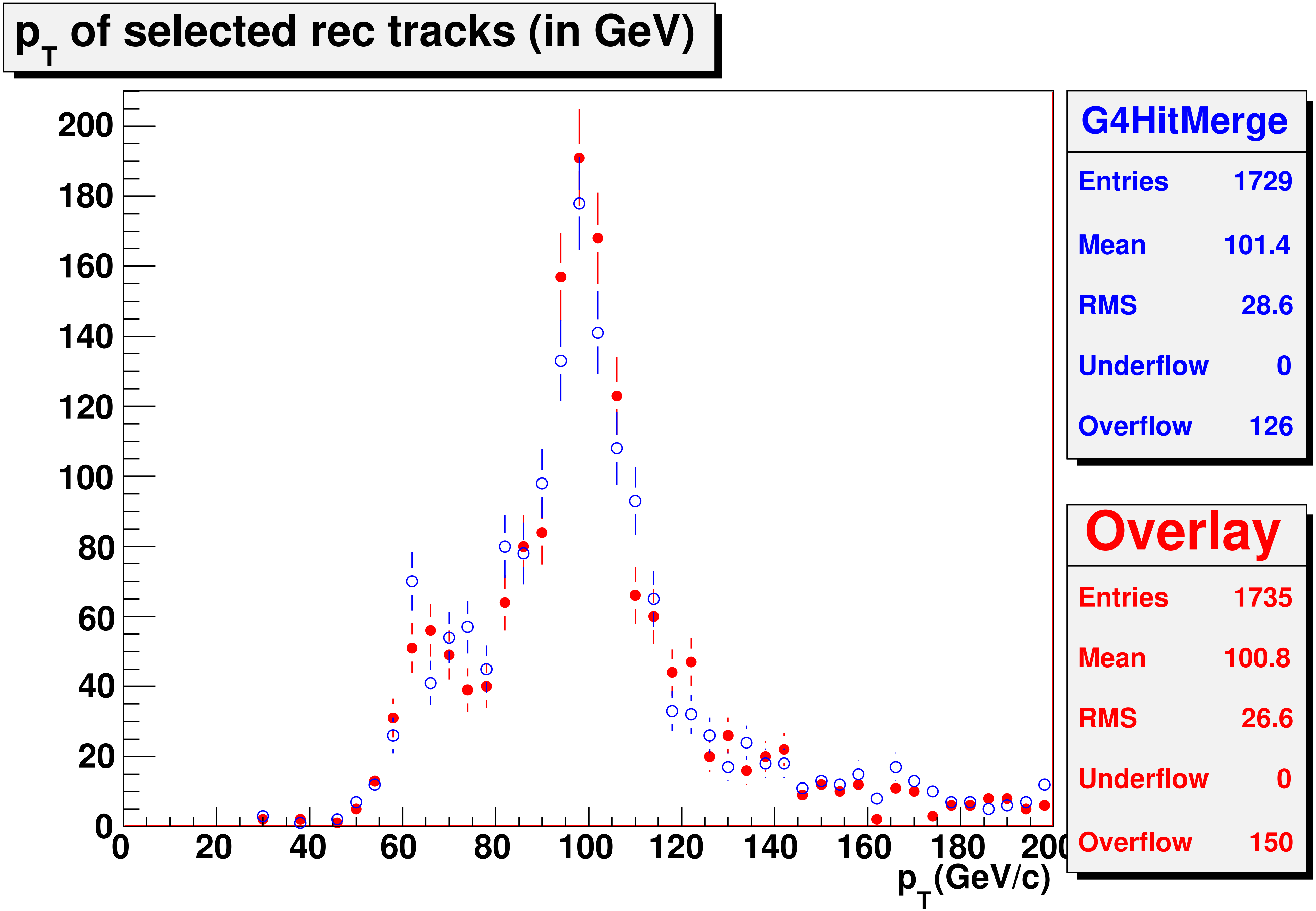
η of selected truth tracks
G4HitMerge
Entries 1729
Mean −0.02039
RMS 1.396
Underflow 0
Overflow 0
Overlay
Entries 1325
Mean −0.01826
RMS 1.334
Underflow 0
Overflow 0
η
0
20
40
60
80
100
120
140
160
180
−5
−4
−3
−2
−1
0
1
2
3
4
5



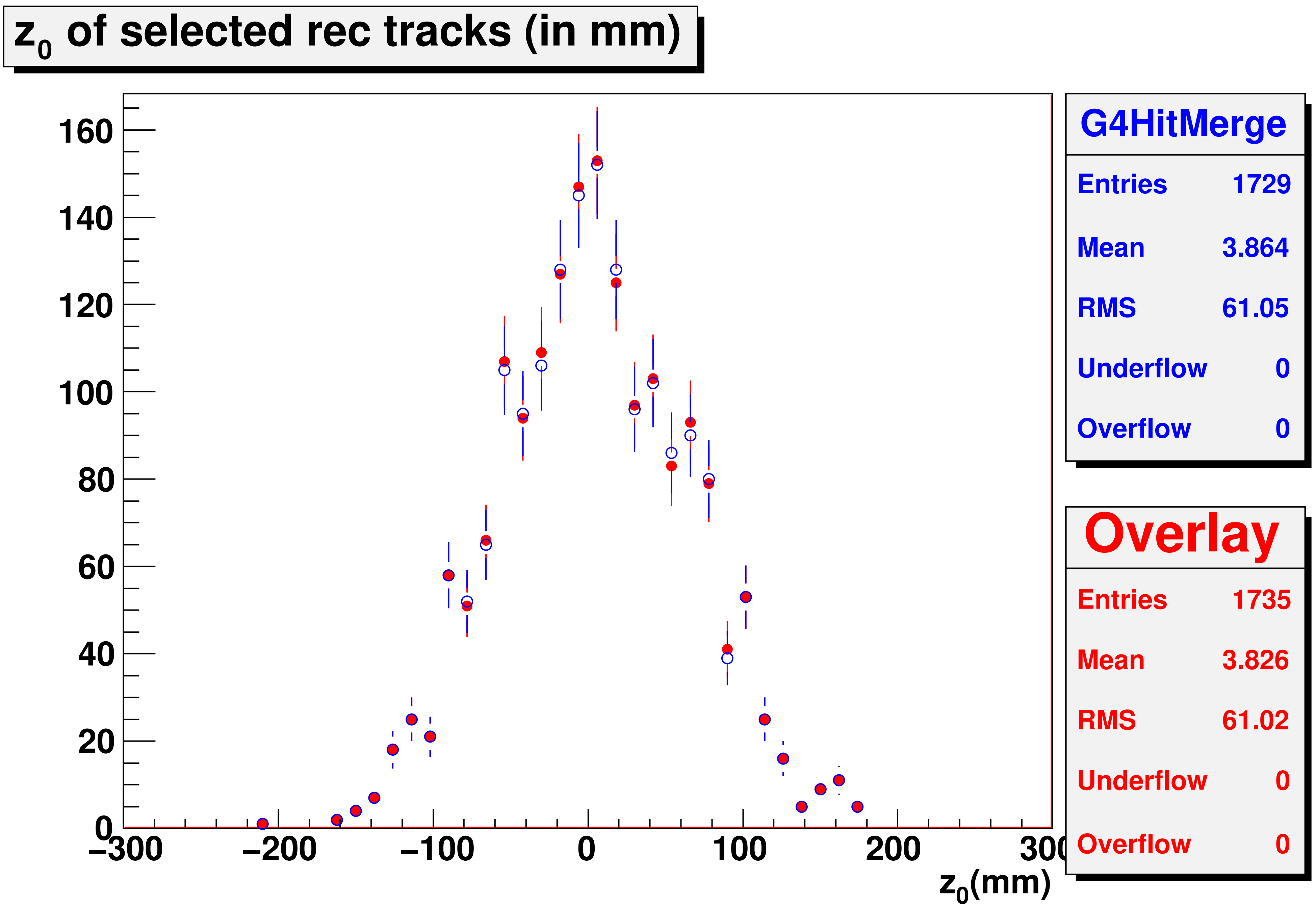
Z of interaction point (mm)
90
80
70
60
50
40
30
20
10
0
−300
−200
−100
0
100
200
300
R_z^{int}(mm)
G4HitMerge
Entries 1000
Mean 4.018
RMS 60.61
Underflow 0
Overflow 0
Overlay
Entries 2000
Mean 4.018
RMS 60.61
Underflow 0
Overflow 0



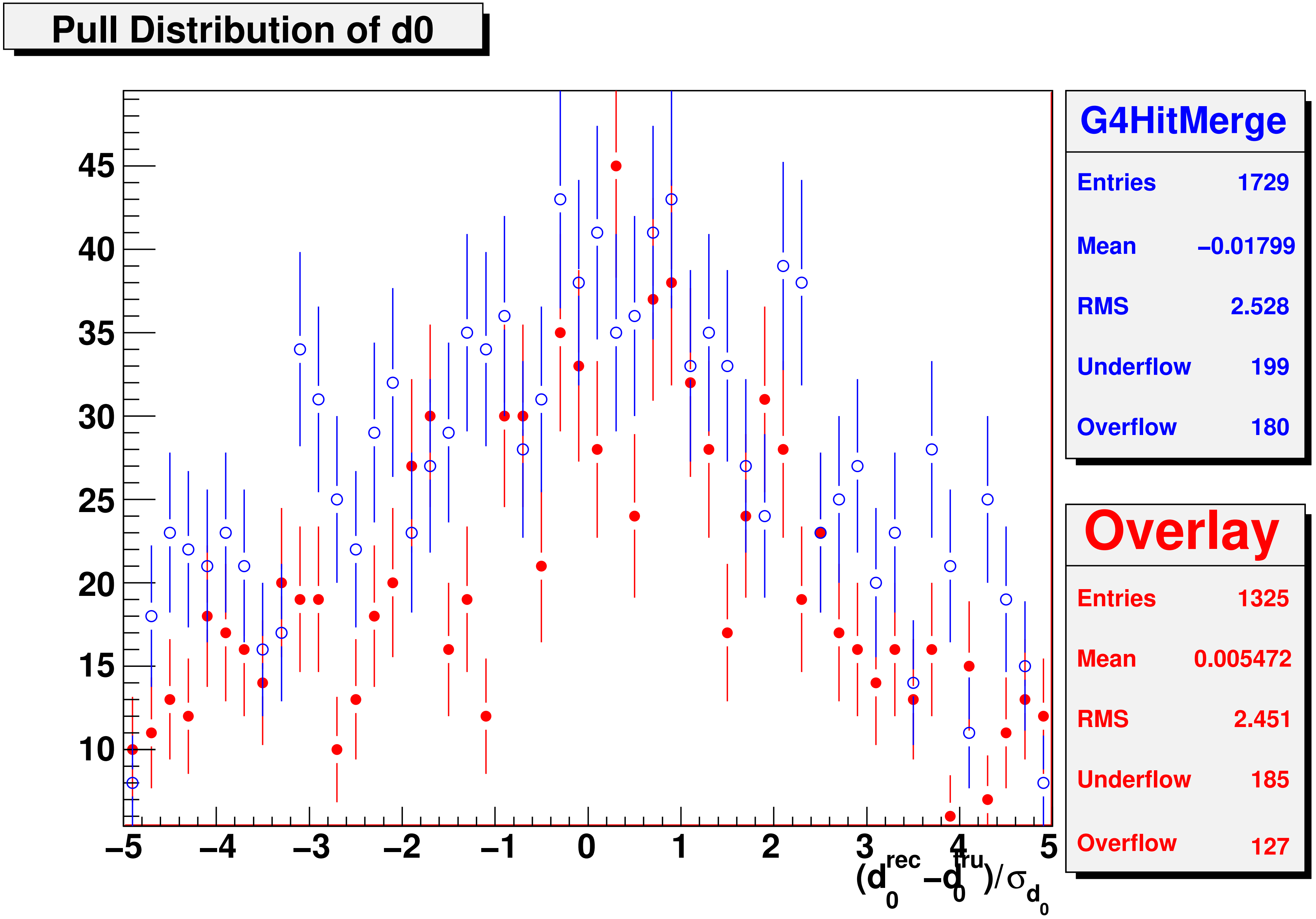
p_T of selected rec tracks (in GeV)
G4HitMerge
Entries 1729
Mean 0
RMS 0
Underflow 0
Overflow 1729
Overlay
Entries 1735
Mean 0
RMS 0
Underflow 0
Overflow 1735
1
0
2
4
6
8
10
12
14
16
18
20
p_T (GeV/c)



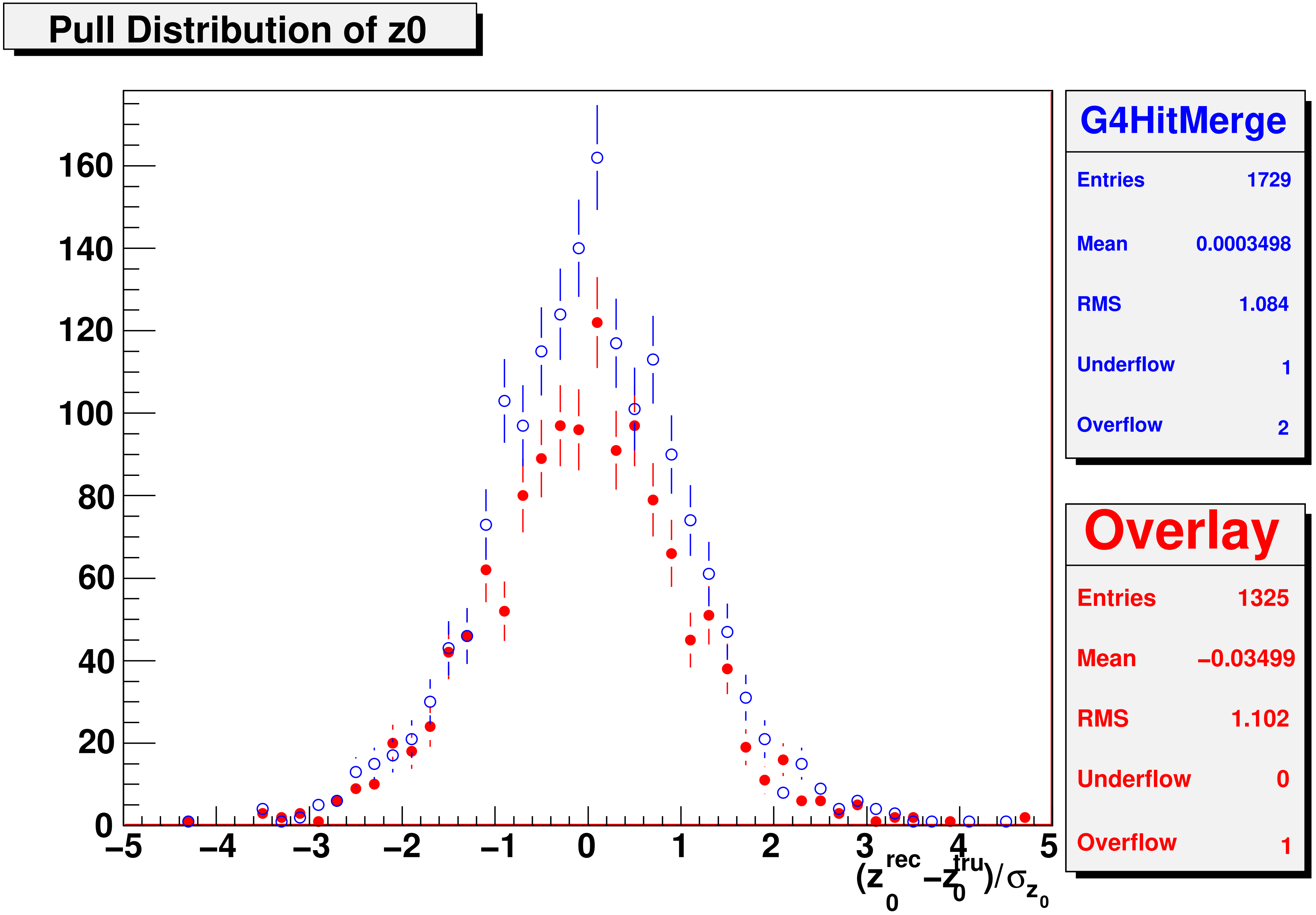
p_T of selected rec tracks (in GeV)
G4HitMerge
Entries 1729
Mean 101.4
RMS 28.6
Underflow 0
Overflow 126
Overlay
Entries 1735
Mean 100.8
RMS 26.6
Underflow 0
Overflow 150
200
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV/c)



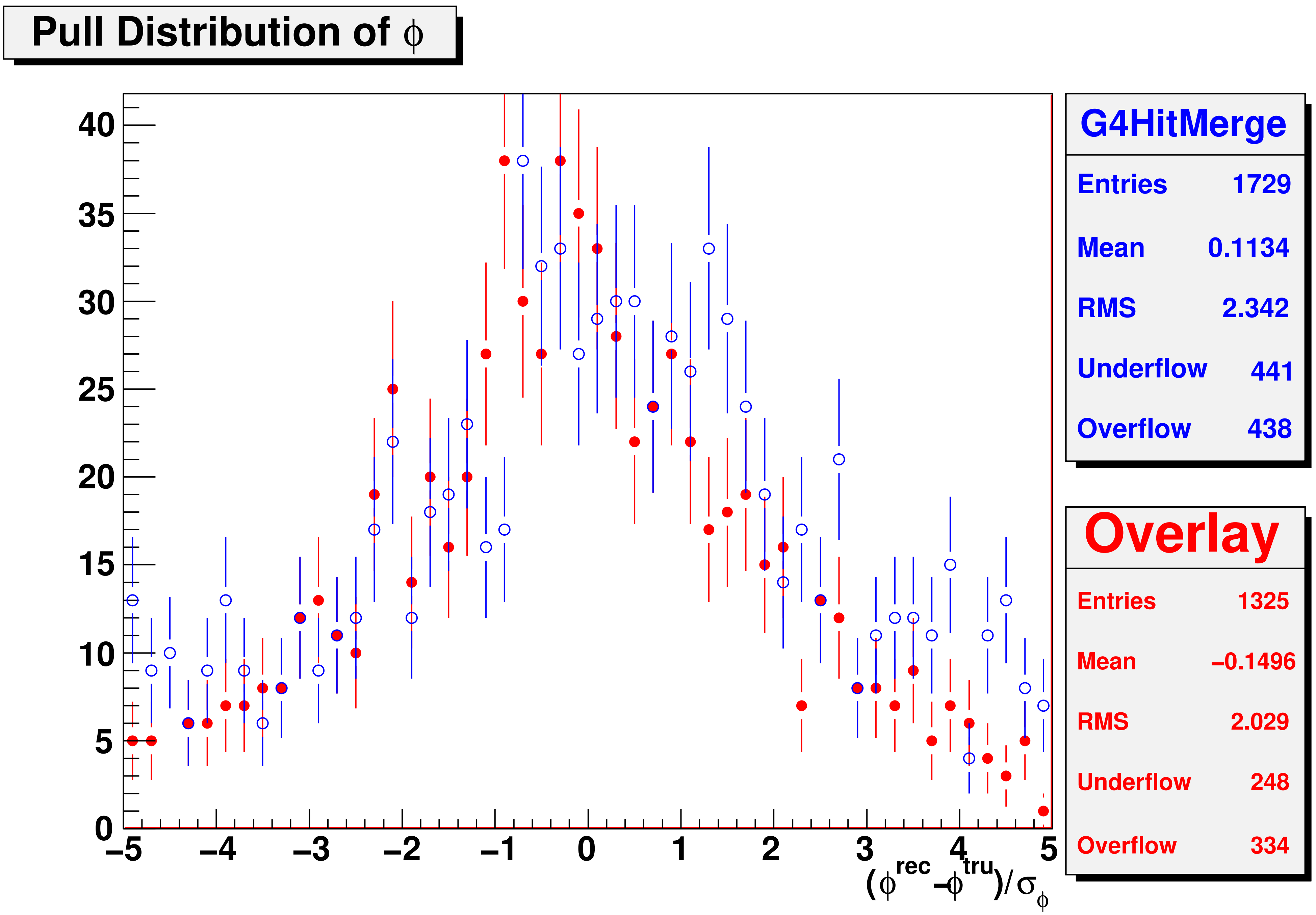
z0 of selected rec tracks (in mm)
G4HitMerge
Entries 1729
Mean 3.864
RMS 61.05
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 3.826
RMS 61.02
Underflow 0
Overflow 0
160
140
120
100
80
60
40
20
0
−300
−200
−100
0
100
200
300
z0(mm)

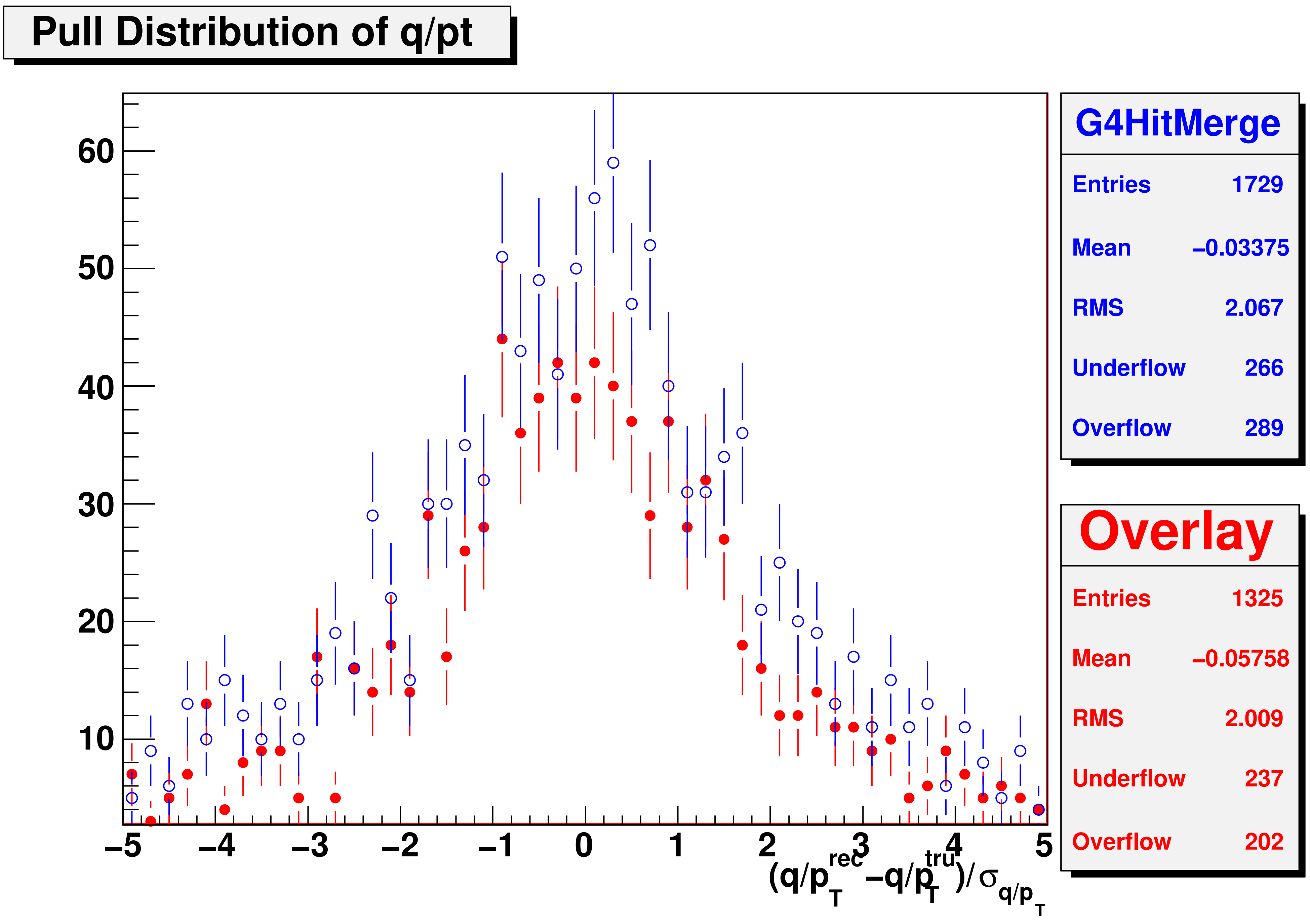


Pull Distribution of d0
G4HitMerge
Entries 1729
Mean −0.01799
RMS 2.528
Underflow 199
Overflow 180
Overlay
Entries 1325
Mean 0.005472
RMS 2.451
Underflow 185
Overflow 127
45
40
35
30
25
20
15
10
−5
−4
−3
−2
−1
0
1
2
3
4
5
$(d_0^{rec}-d_0^{tru})/\sigma_{d_0}$

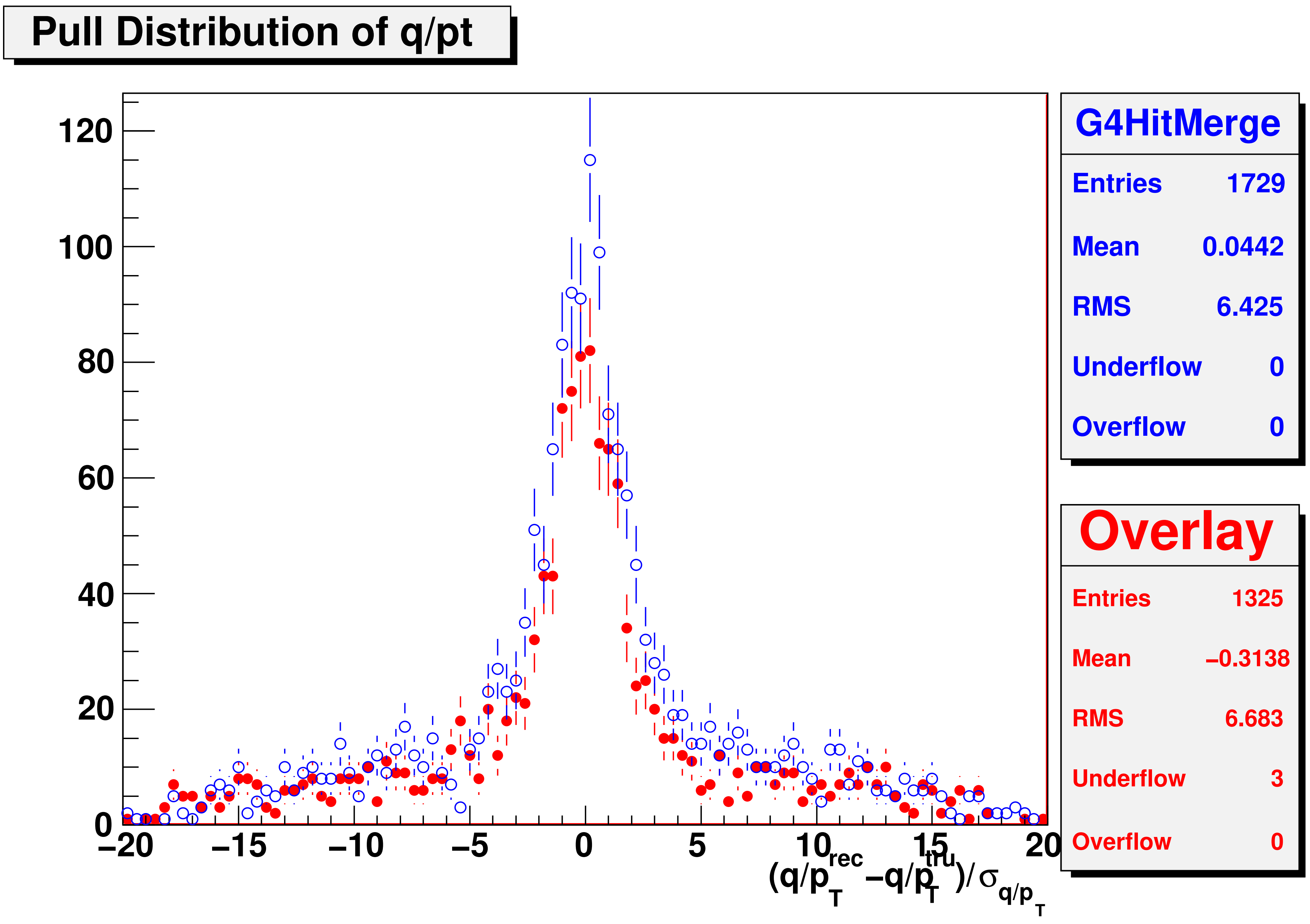


Pull Distribution of z0
G4HitMerge
Entries 1729
Mean 0.0003498
RMS 1.084
Underflow 1
Overflow 2
Overlay
Entries 1325
Mean –0.03499
RMS 1.102
Underflow 0
Overflow 1
0
20
40
60
80
100
120
140
160
–5
–4
–3
–2
–1
0
1
2
3
4
5
$(z_0^{rec}-z_0^{tru})/\sigma_{z_0}$

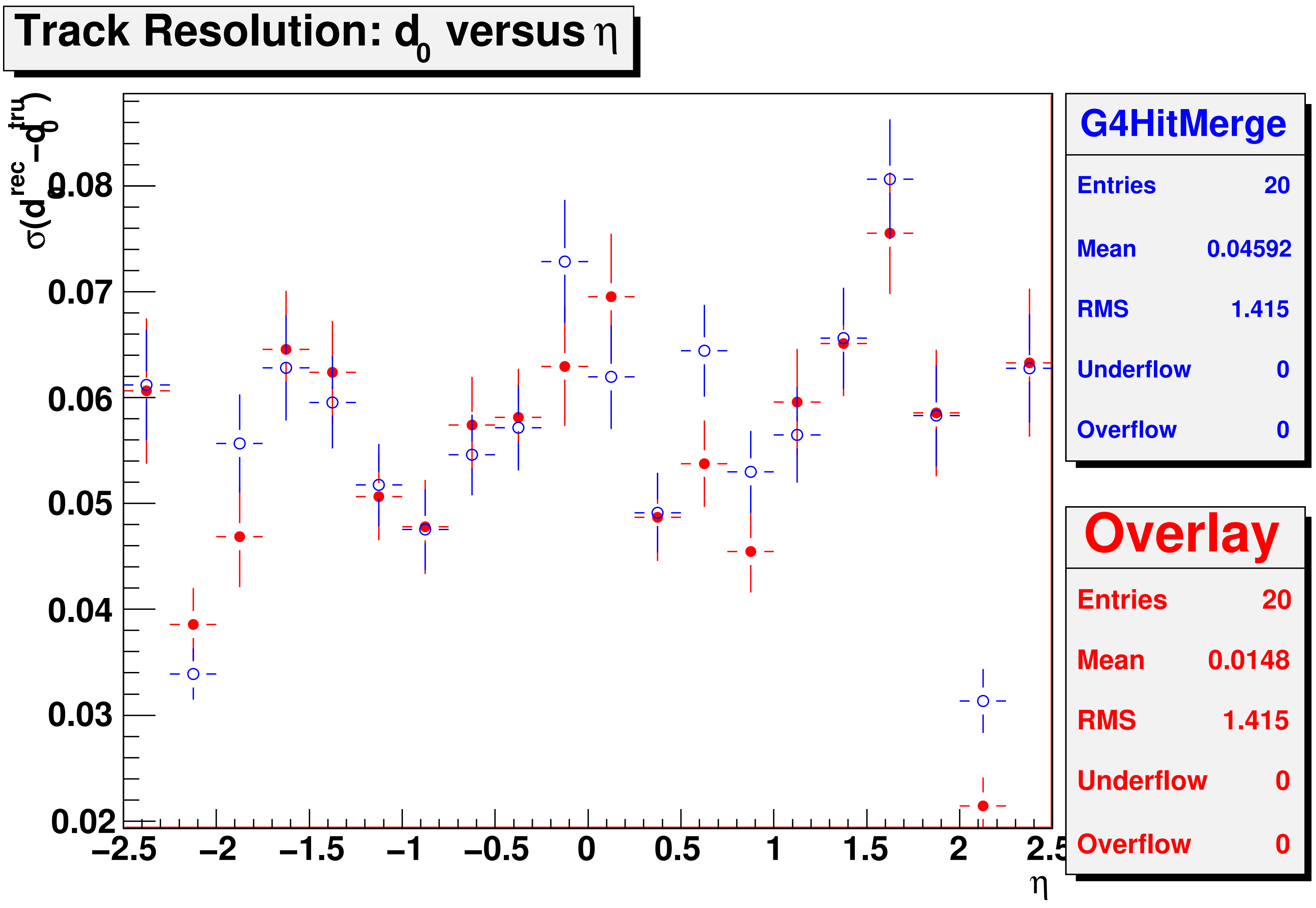

Pull Distribution of ϕ
G4HitMerge
Entries 1729
Mean 0.1134
RMS 2.342
Underflow 441
Overflow 438
Overlay
Entries 1325
Mean -0.1496
RMS 2.029
Underflow 248
Overflow 334
$(\phi^{rec}-\phi^{tru})/\sigma_{\phi}$



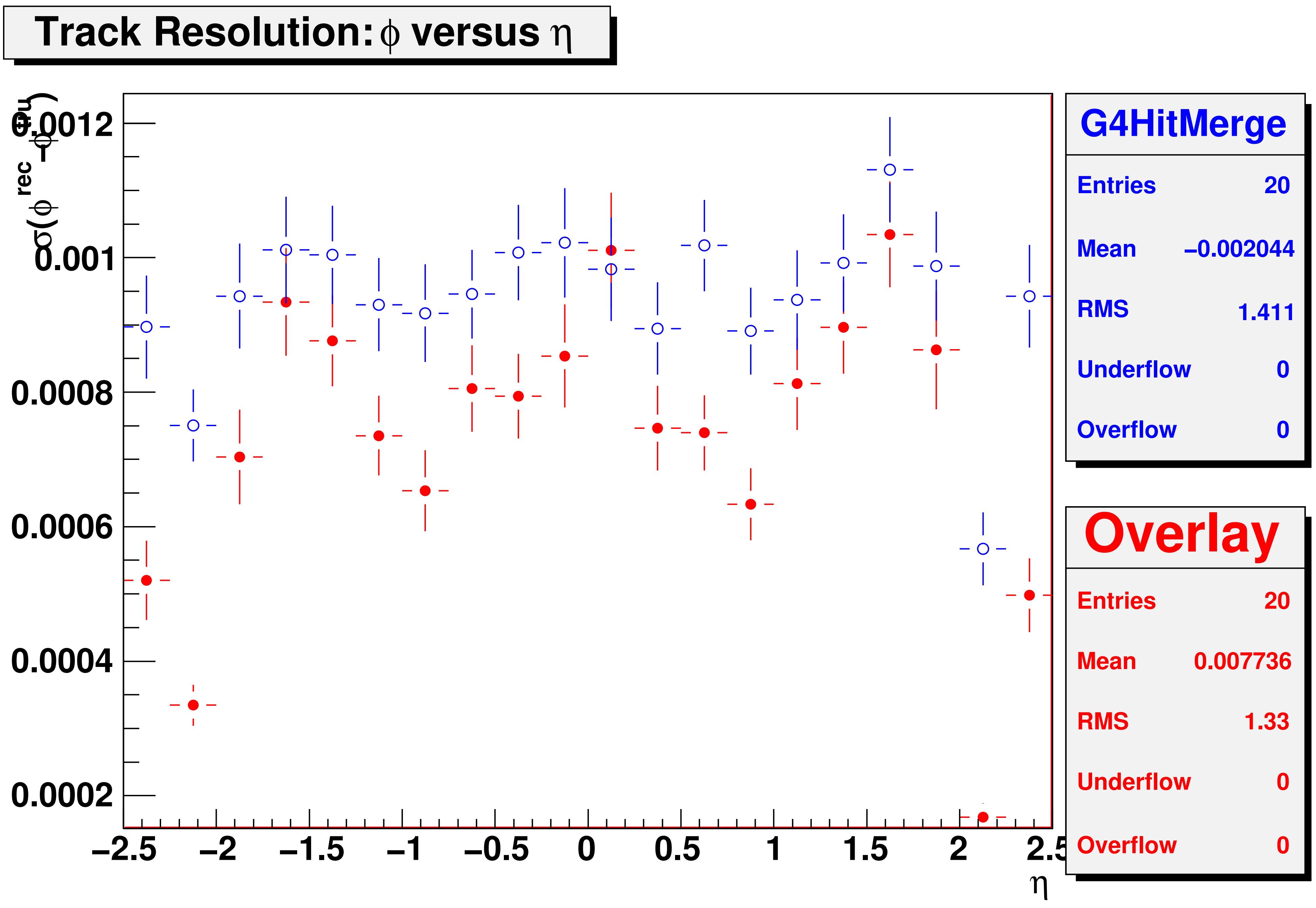
Pull Distribution of q/pt
G4HitMerge
Entries 1729
Mean −0.03375
RMS 2.067
Underflow 266
Overflow 289
Overlay
Entries 1325
Mean −0.05758
RMS 2.009
Underflow 237
Overflow 202
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$



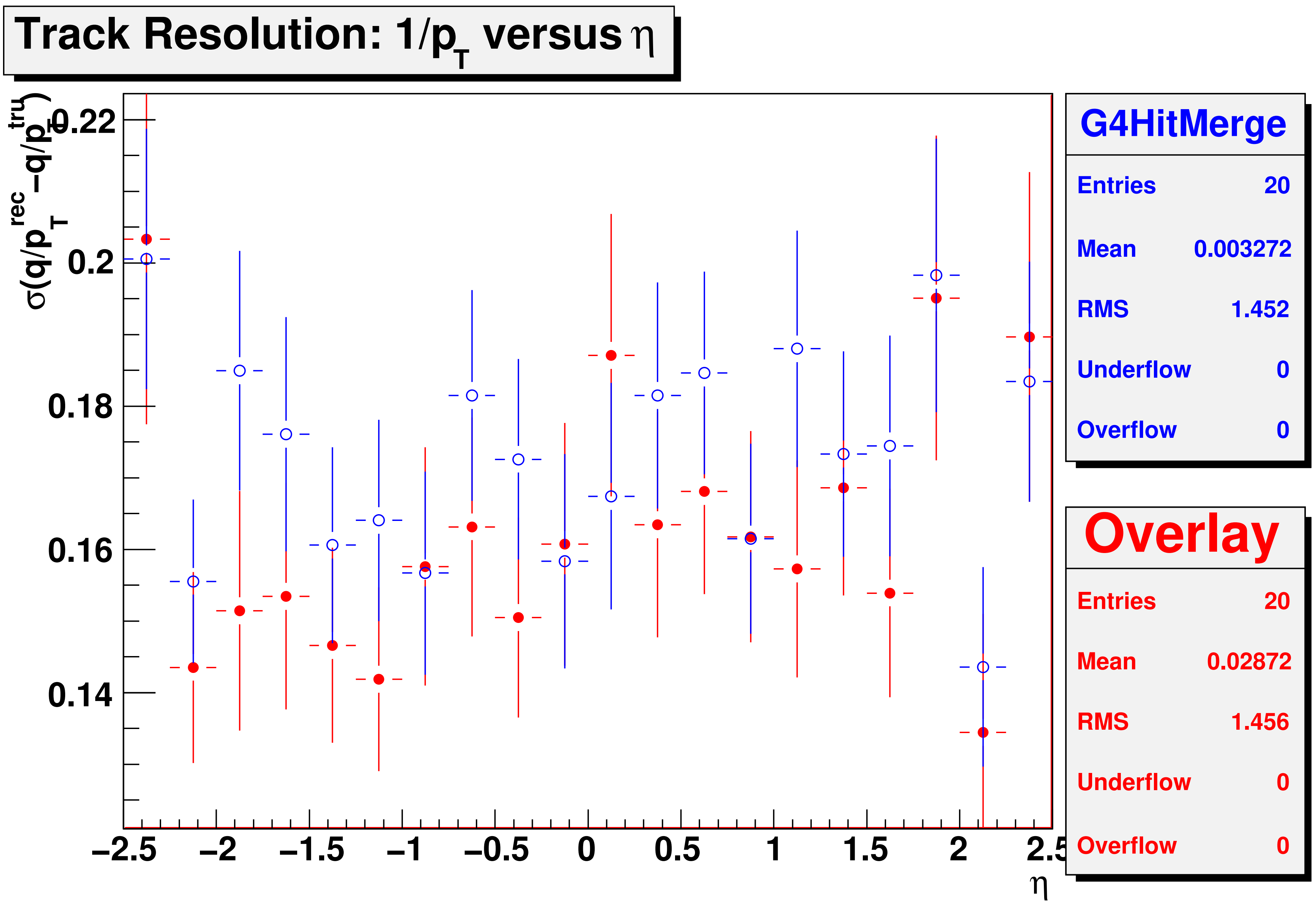
Pull Distribution of q/pt
G4HitMerge
Entries 1729
Mean 0.0442
RMS 6.425
Underflow 0
Overflow 0
Overlay
Entries 1325
Mean −0.3138
RMS 6.683
Underflow 3
Overflow 0
120
100
80
60
40
20
0
−20
−15
−10
−5
0
5
10
15
20
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$



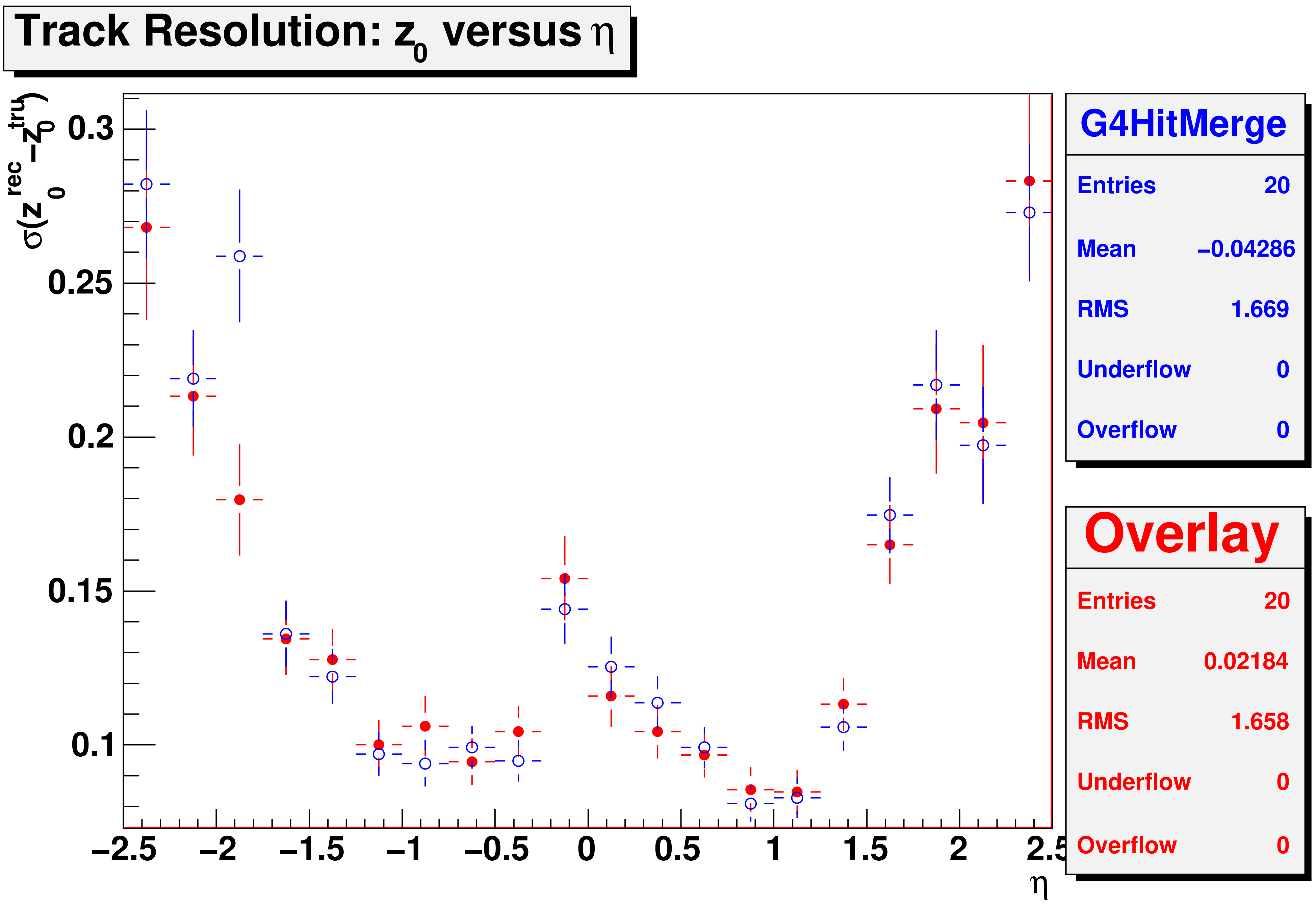
Track Resolution: d_0 versus η
$\sigma(d_0^{rec}-d_0^{tru})$
0.08
0.07
0.06
0.05
0.04
0.03
0.02
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.04592
RMS 1.415
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.0148
RMS 1.415
Underflow 0
Overflow 0



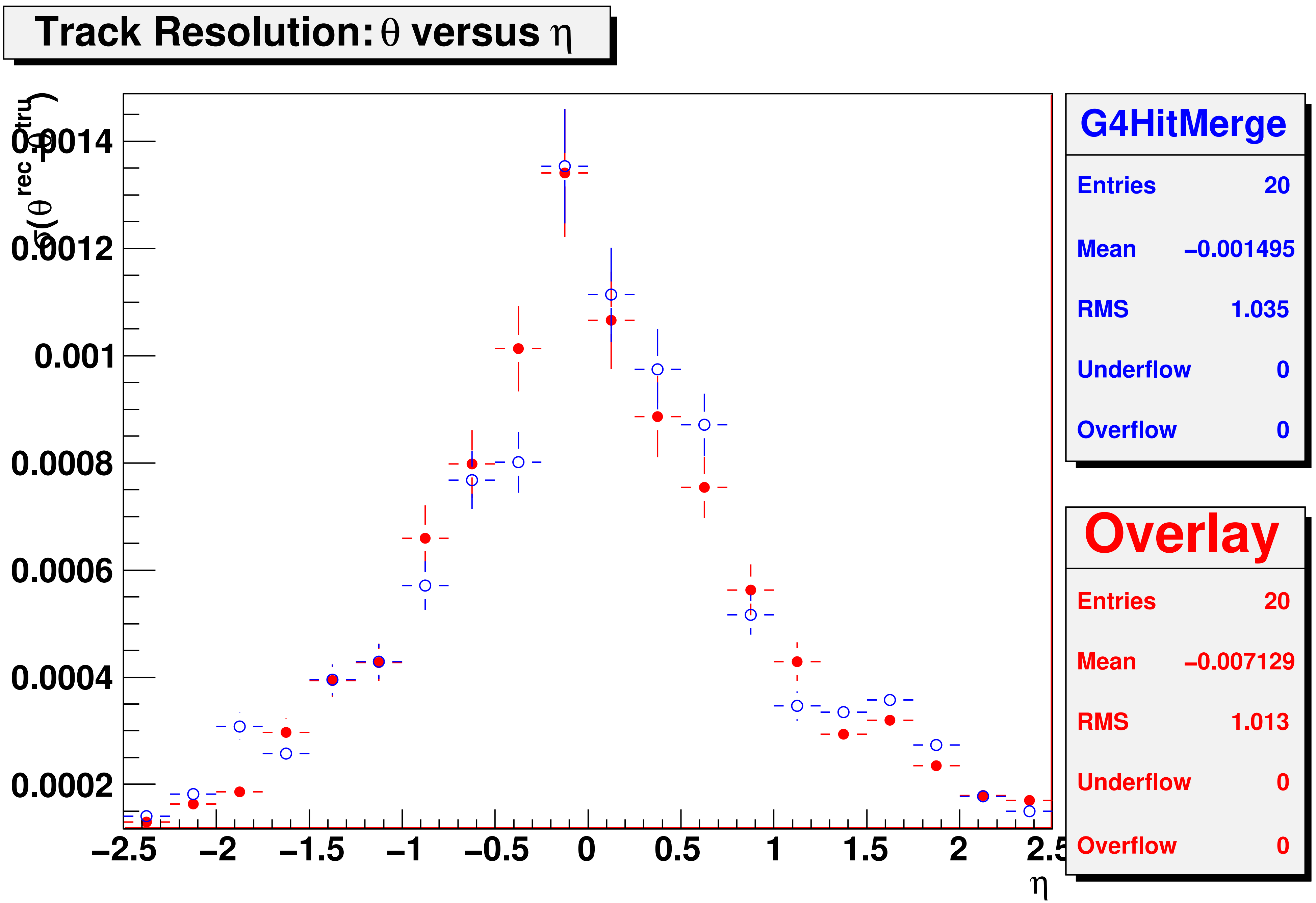
Track Resolution: φ versus η
σ(φ^rec − φ^tru)
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.002044
RMS 1.411
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.007736
RMS 1.33
Underflow 0
Overflow 0



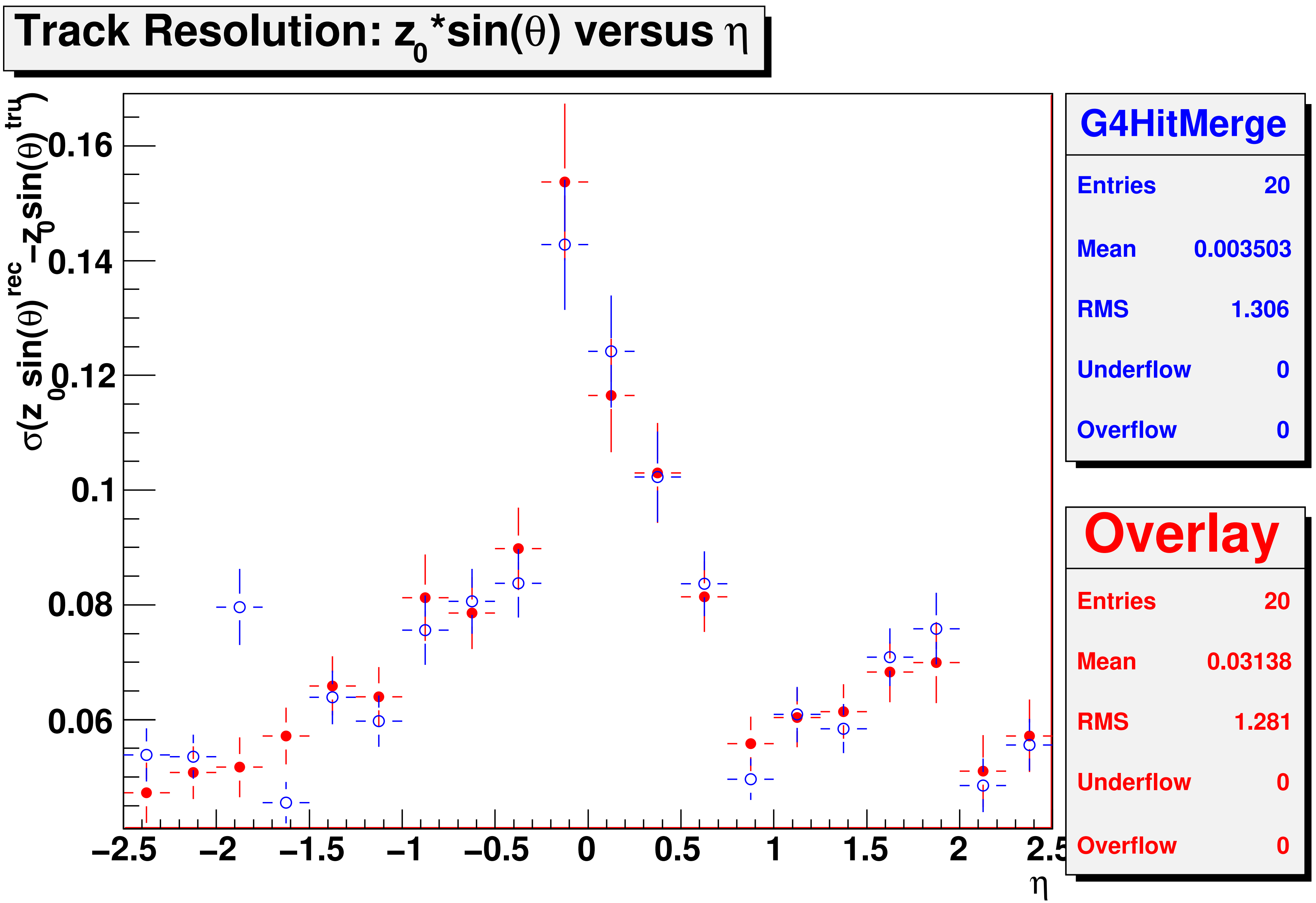
Track Resolution: 1/p_T versus η
σ(q/p_T^rec − q/p_T^tru)
η
G4HitMerge
Entries 20
Mean 0.003272
RMS 1.452
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.02872
RMS 1.456
Underflow 0
Overflow 0

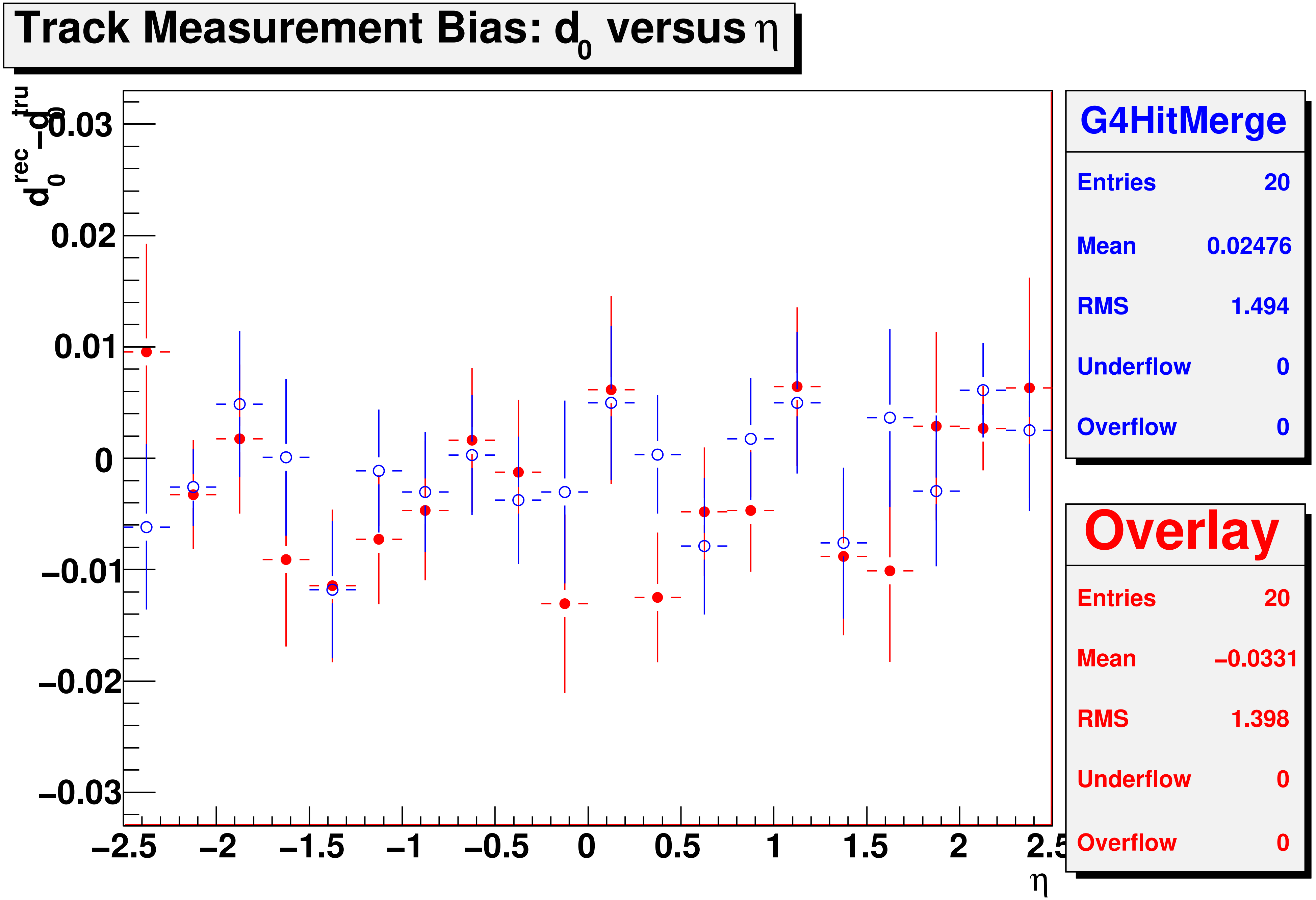


Track Resolution: z_0 versus η
$\sigma(z_0^{rec}-z_0^{tru})$
0.3
0.25
0.2
0.15
0.1
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.04286
RMS 1.669
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.02184
RMS 1.658
Underflow 0
Overflow 0

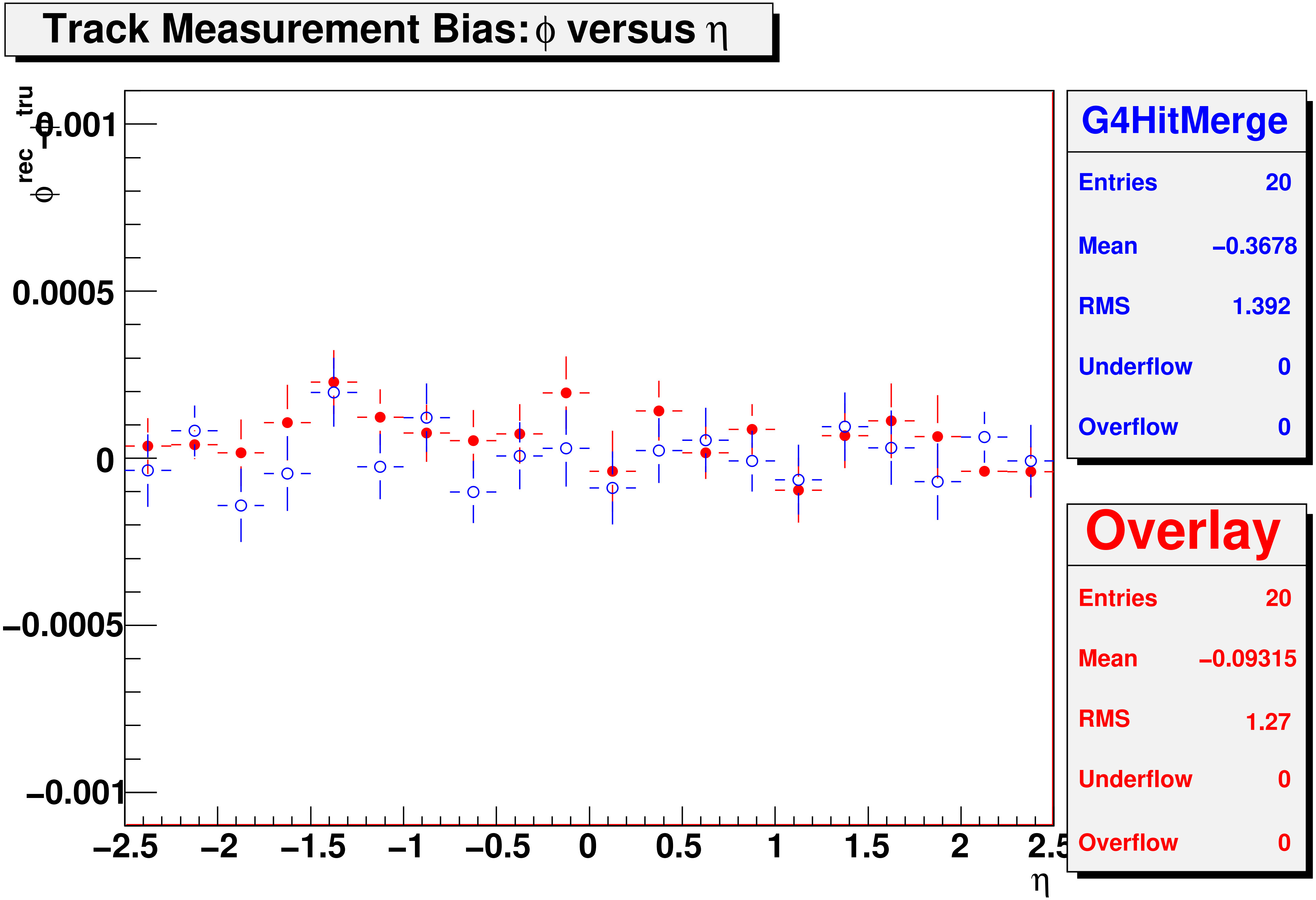


Track Resolution: θ versus η
σ(θ^rec - θ^tru)
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
−2.5 −2 −1.5 −1 −0.5 0 0.5 1 1.5 2 2.5
η
G4HitMerge
Entries 20
Mean −0.001495
RMS 1.035
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.007129
RMS 1.013
Underflow 0
Overflow 0

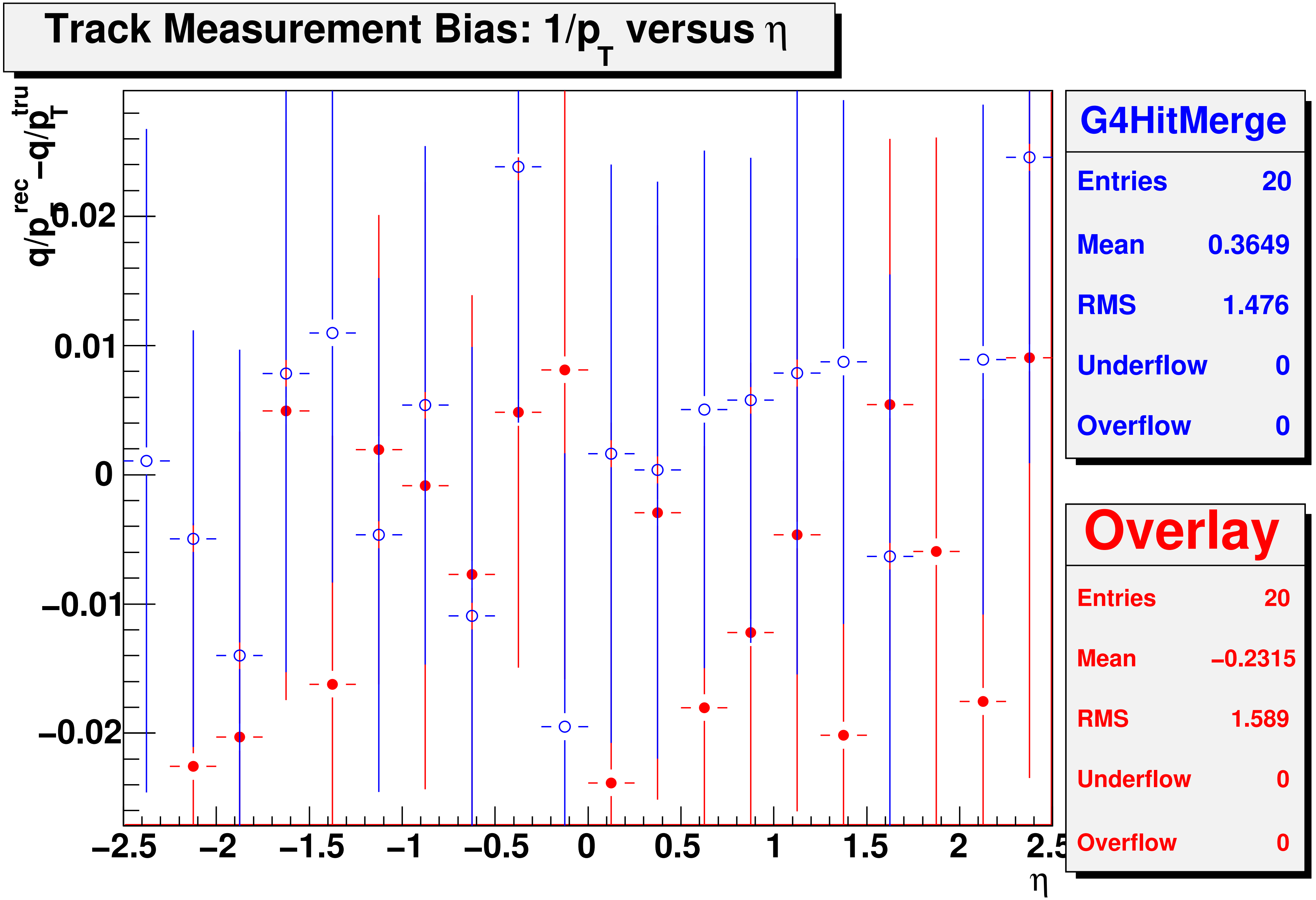

Track Resolution: z0*sin(θ) versus η
σ(z0sin(θ)^rec−z0sin(θ)^tru)
0.16
0.14
0.12
0.1
0.08
0.06
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.003503
RMS 1.306
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.03138
RMS 1.281
Underflow 0
Overflow 0



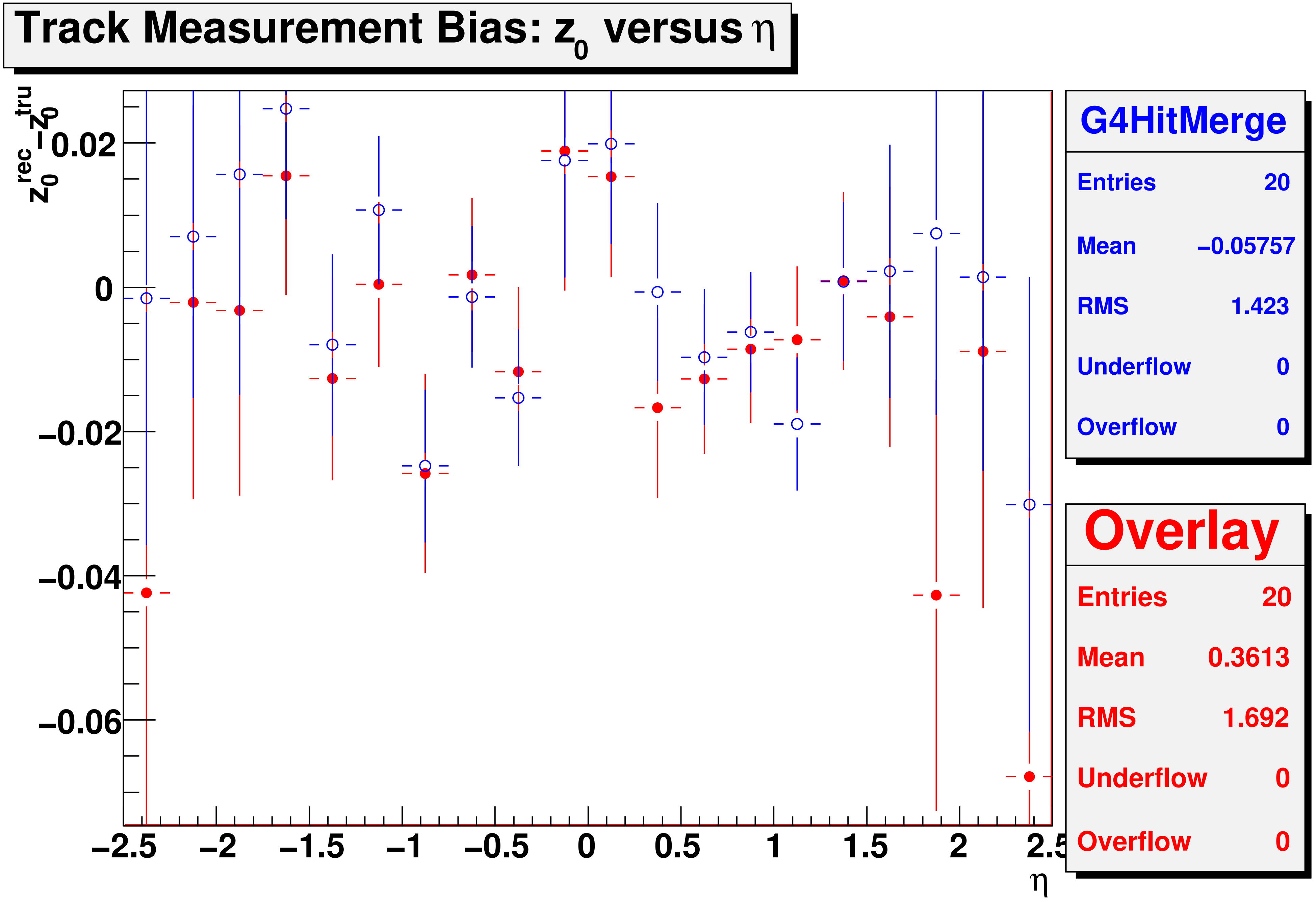
Track Measurement Bias: d_0 versus η
$d_0^{rec} - d_0^{tru}$
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.02476
RMS 1.494
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.0331
RMS 1.398
Underflow 0
Overflow 0

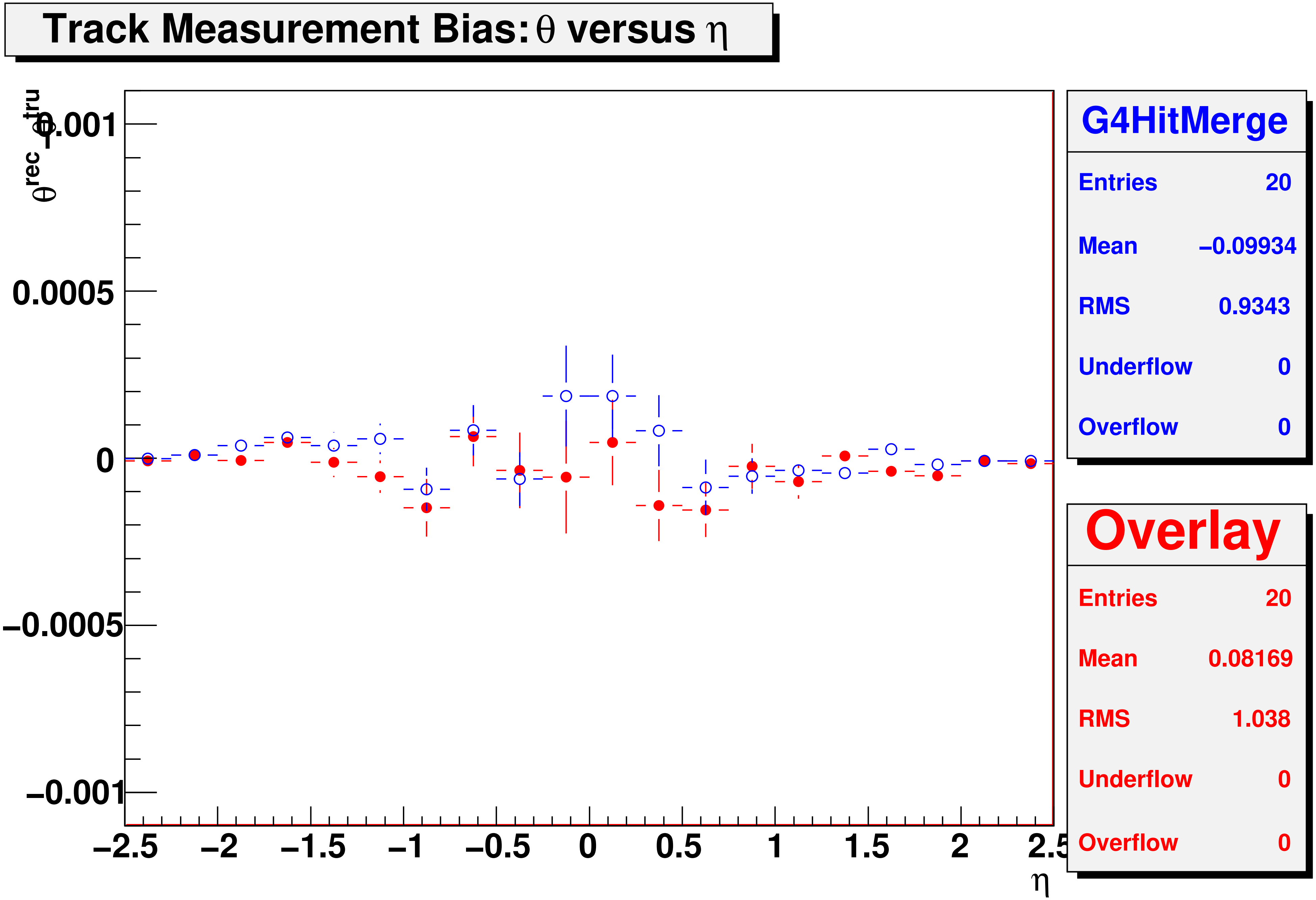


Track Measurement Bias: ϕ versus η
ϕ^rec − ϕ^tru
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.3678
RMS 1.392
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.09315
RMS 1.27
Underflow 0
Overflow 0

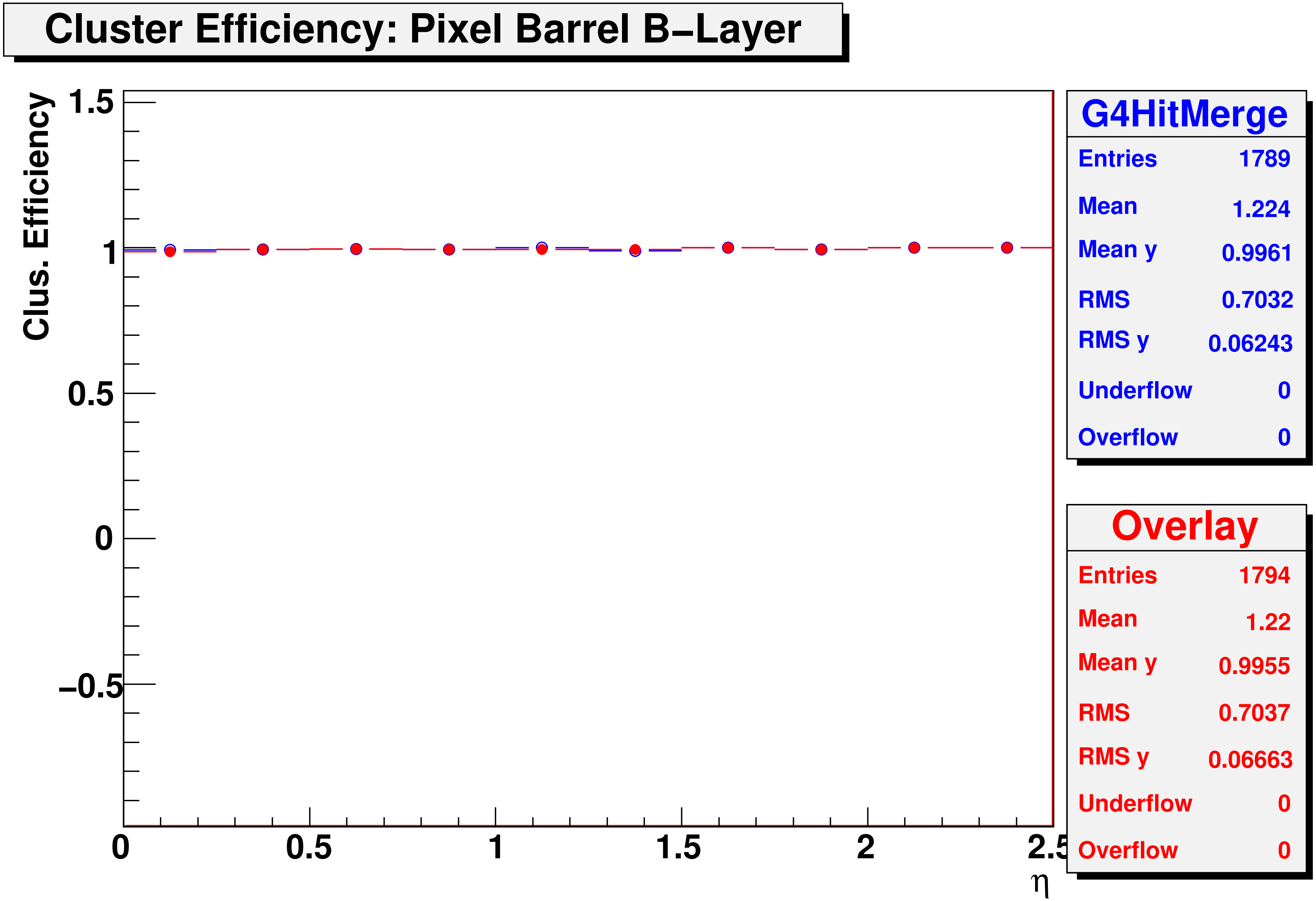


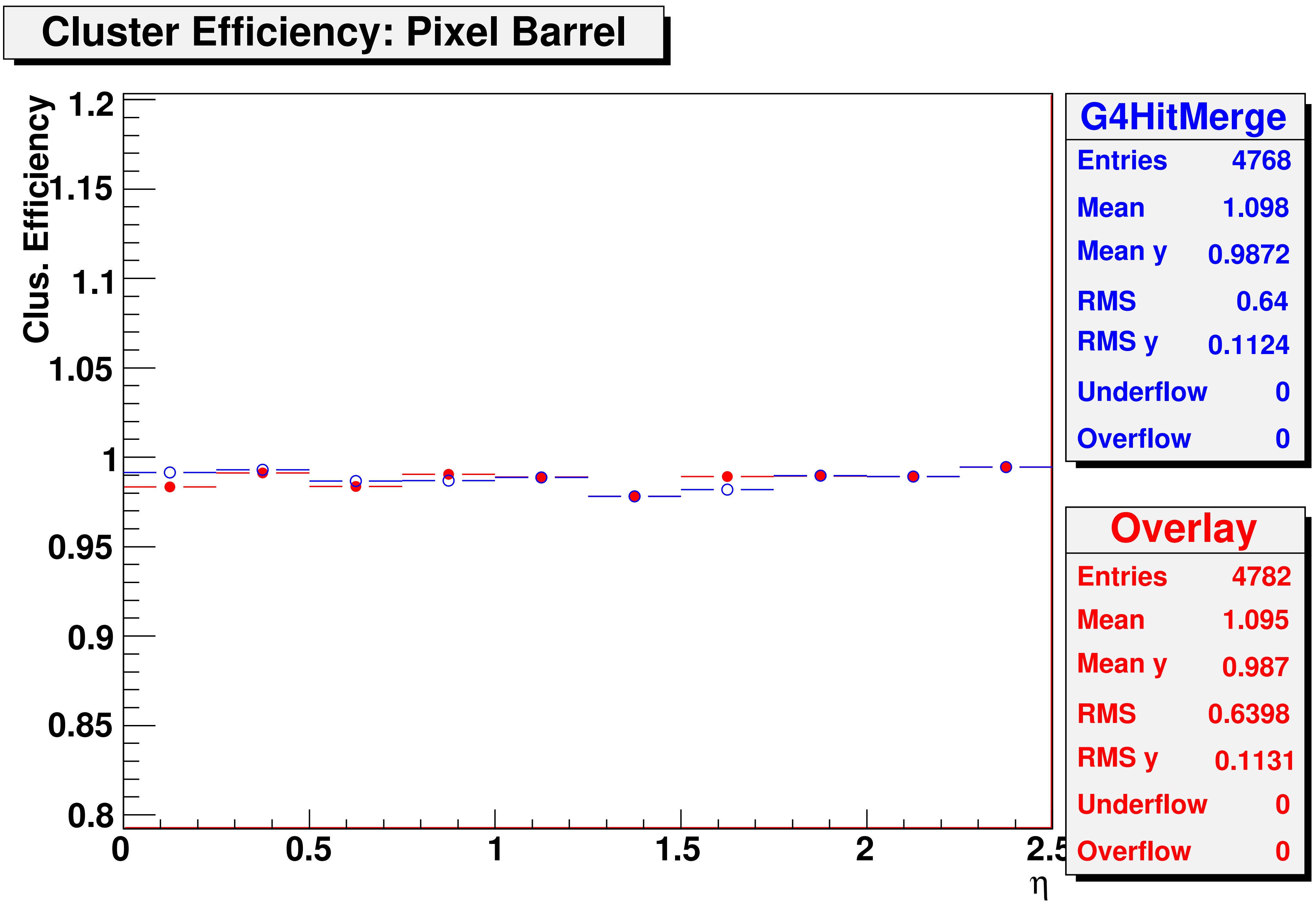
Track Measurement Bias: 1/p_T versus η
q/p_T^rec − q/p_T^tru
0.02
0.01
0
−0.01
−0.02
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.3649
RMS 1.476
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.2315
RMS 1.589
Underflow 0
Overflow 0


Track Measurement Bias: z_0 versus η
$z_0^{rec}-z_0^{tru}$
0.02
0
−0.02
−0.04
−0.06
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.05757
RMS 1.423
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.3613
RMS 1.692
Underflow 0
Overflow 0

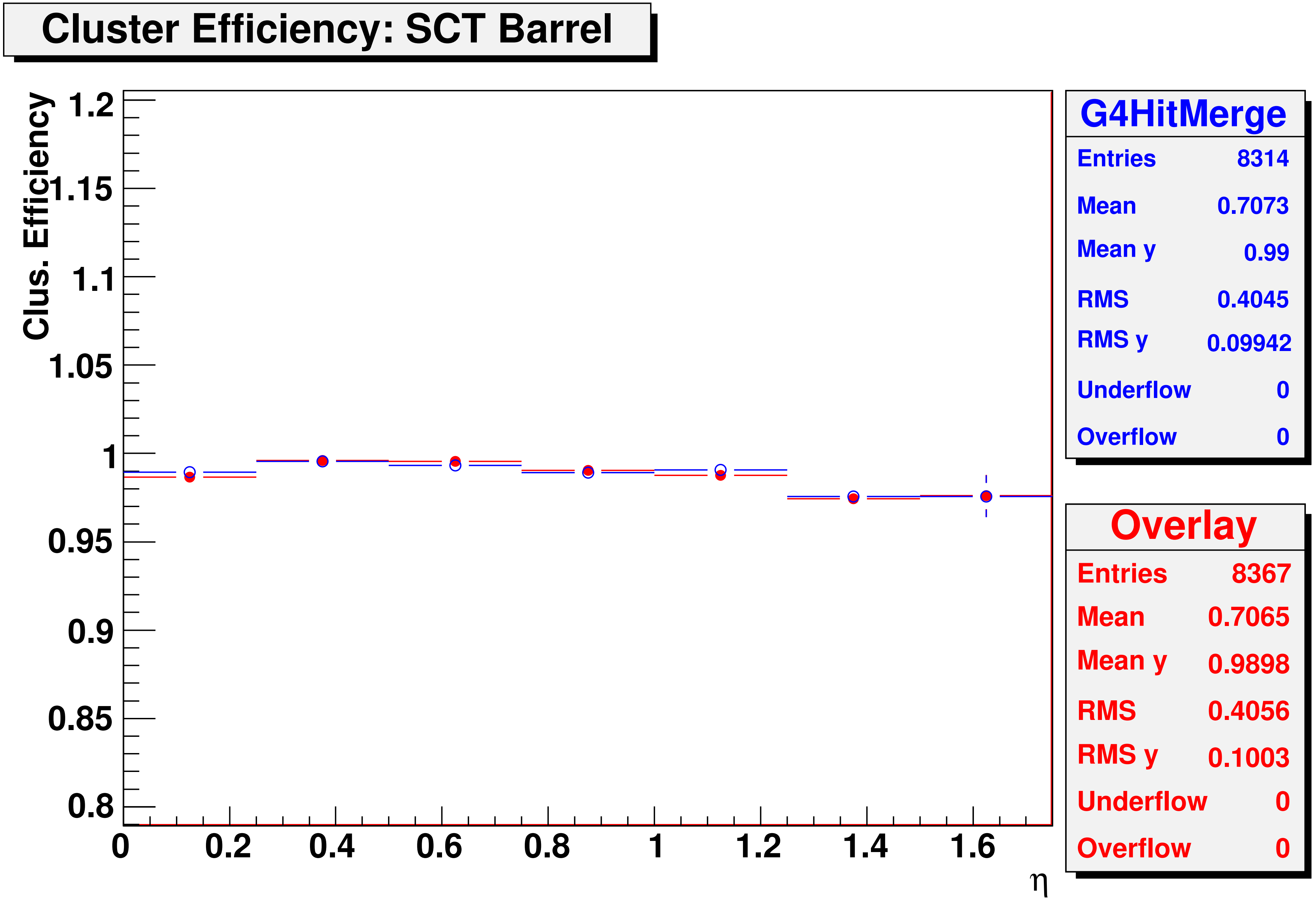


Track Measurement Bias: θ versus η
θ^rec − θ^tru
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.09934
RMS 0.9343
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.08169
RMS 1.038
Underflow 0
Overflow 0

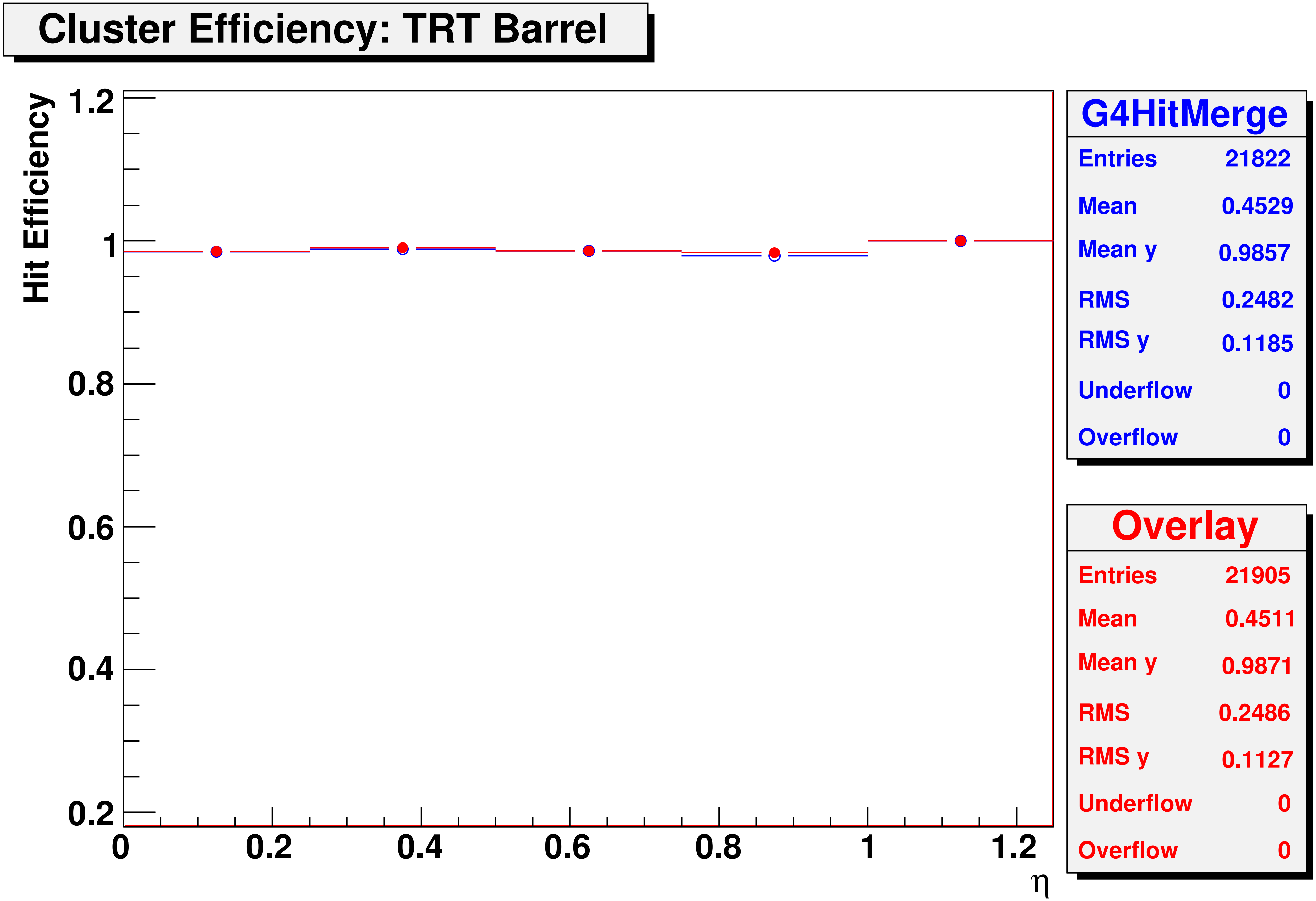

Cluster Efficiency: Pixel Barrel B-Layer
Clus. Efficiency
1.5
1
0.5
0
-0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1789
Mean 1.224
Mean y 0.9961
RMS 0.7032
RMS y 0.06243
Underflow 0
Overflow 0
Overlay
Entries 1794
Mean 1.22
Mean y 0.9955
RMS 0.7037
RMS y 0.06663
Underflow 0
Overflow 0

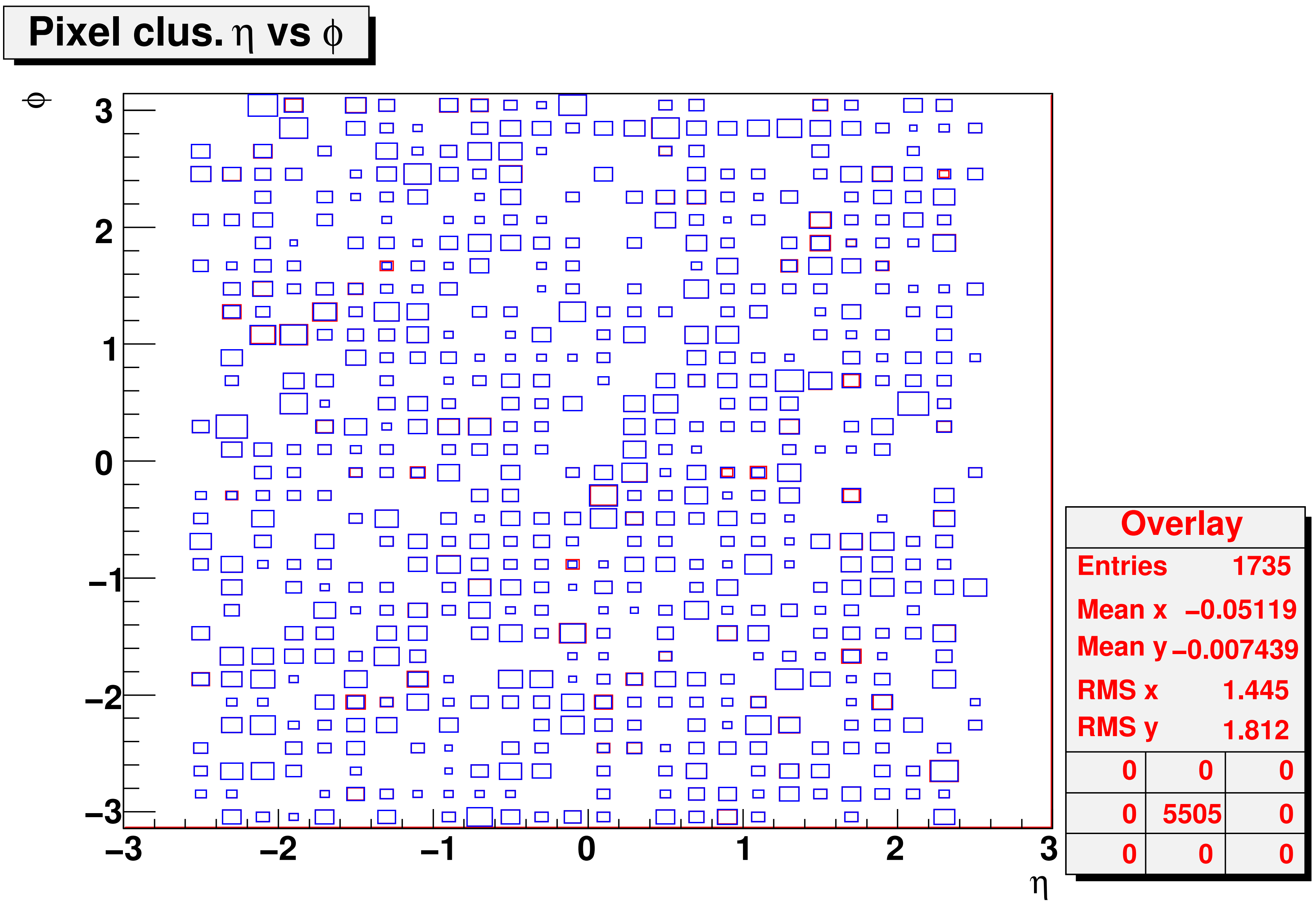


Cluster Efficiency: Pixel Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 4768
Mean 1.098
Mean y 0.9872
RMS 0.64
RMS y 0.1124
Underflow 0
Overflow 0
Overlay
Entries 4782
Mean 1.095
Mean y 0.987
RMS 0.6398
RMS y 0.1131
Underflow 0
Overflow 0

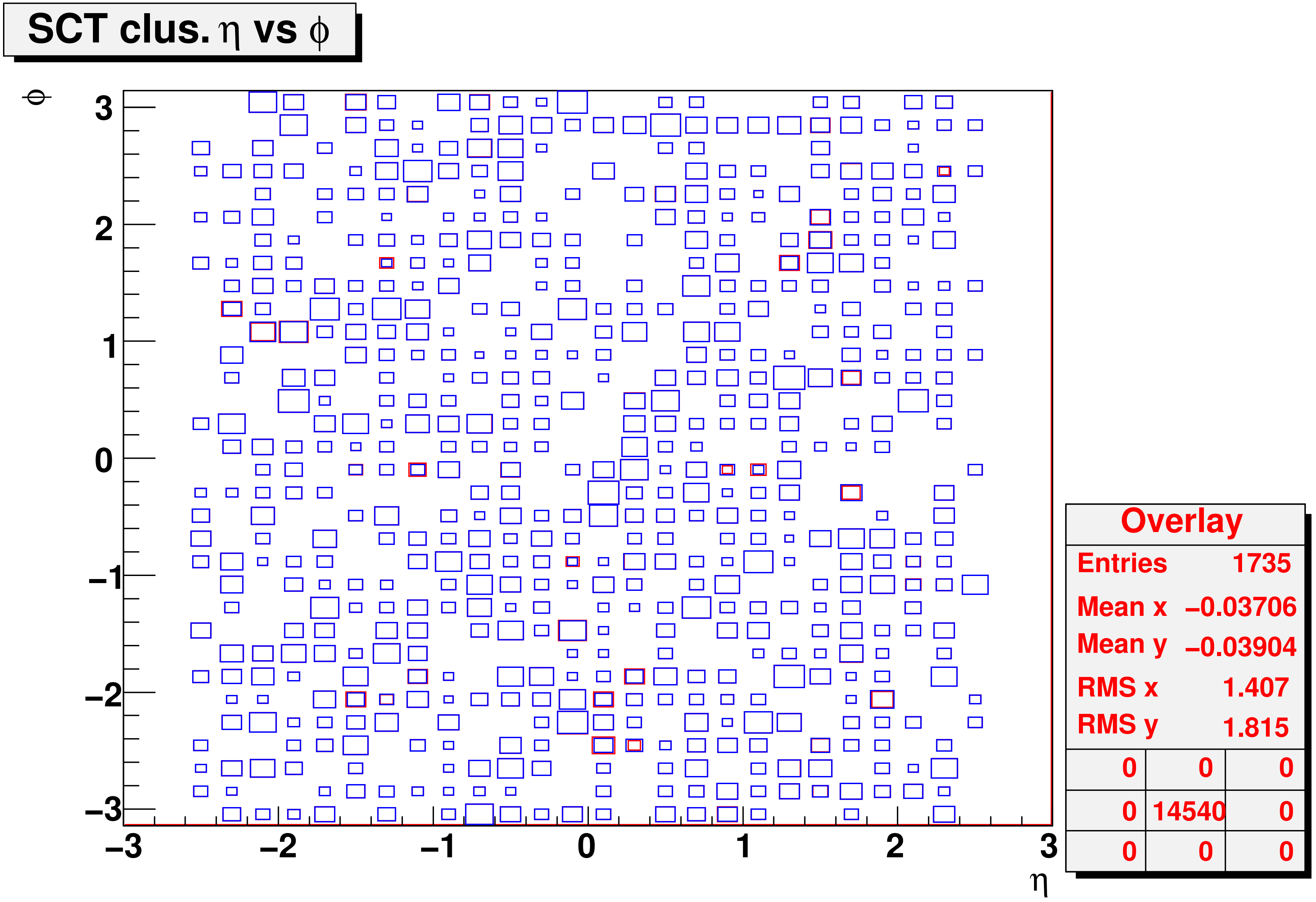


Cluster Efficiency: SCT Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
η
G4HitMerge
Entries 8314
Mean 0.7073
Mean y 0.99
RMS 0.4045
RMS y 0.09942
Underflow 0
Overflow 0
Overlay
Entries 8367
Mean 0.7065
Mean y 0.9898
RMS 0.4056
RMS y 0.1003
Underflow 0
Overflow 0

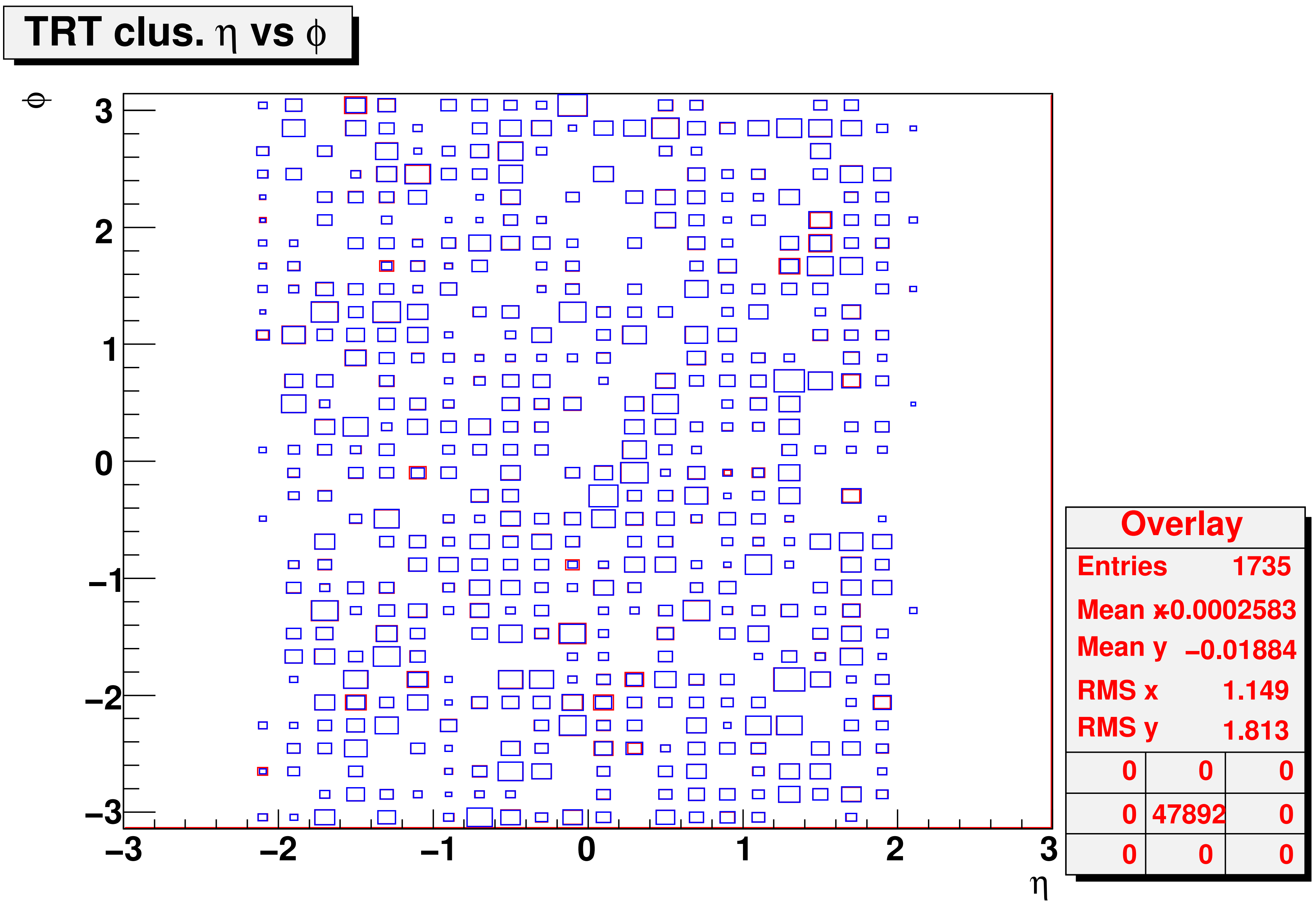

Cluster Efficiency: TRT Barrel
Hit Efficiency
1.2
1
0.8
0.6
0.4
0.2
0
0.2
0.4
0.6
0.8
1
1.2
η
G4HitMerge
Entries 21822
Mean 0.4529
Mean y 0.9857
RMS 0.2482
RMS y 0.1185
Underflow 0
Overflow 0
Overlay
Entries 21905
Mean 0.4511
Mean y 0.9871
RMS 0.2486
RMS y 0.1127
Underflow 0
Overflow 0

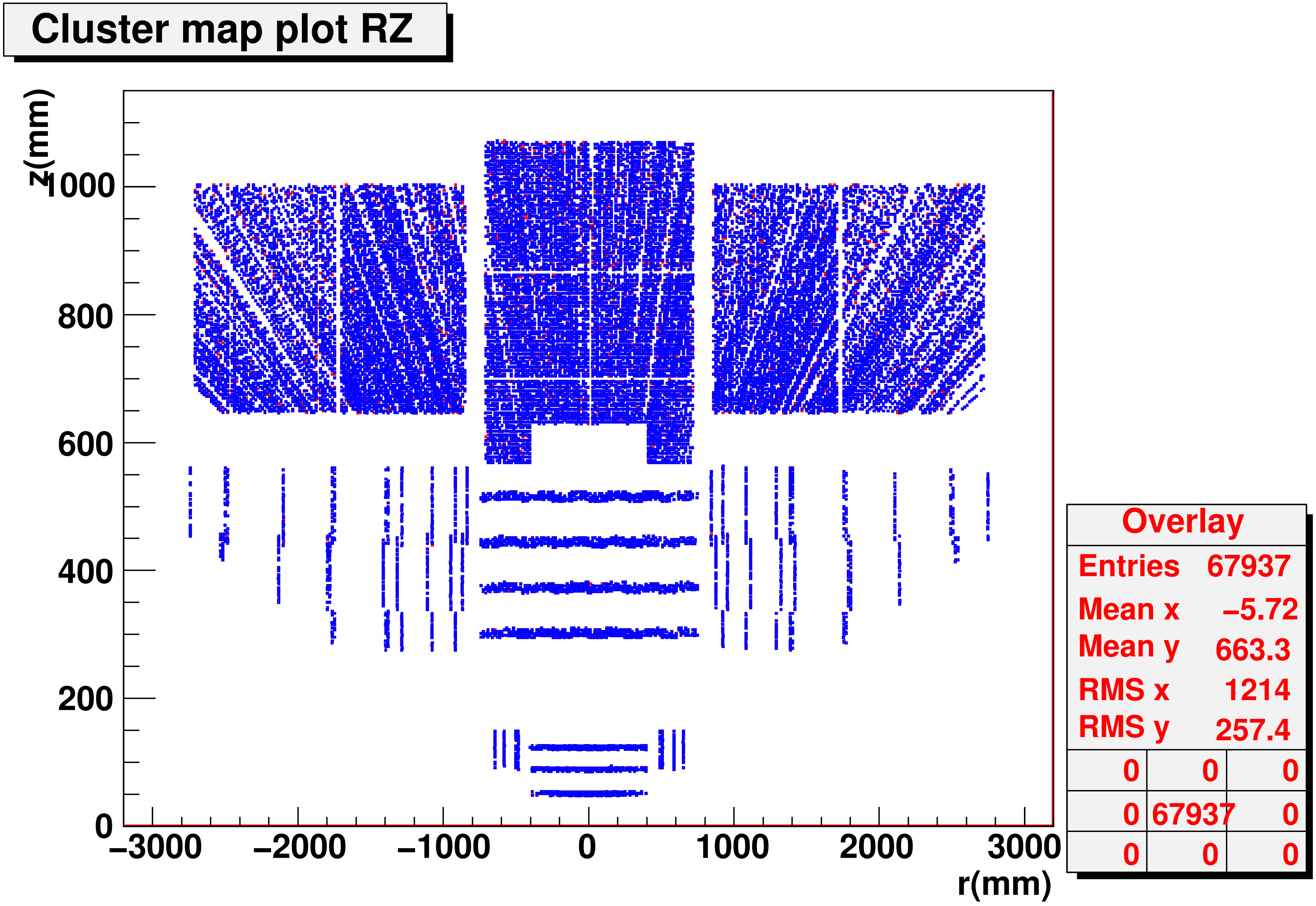


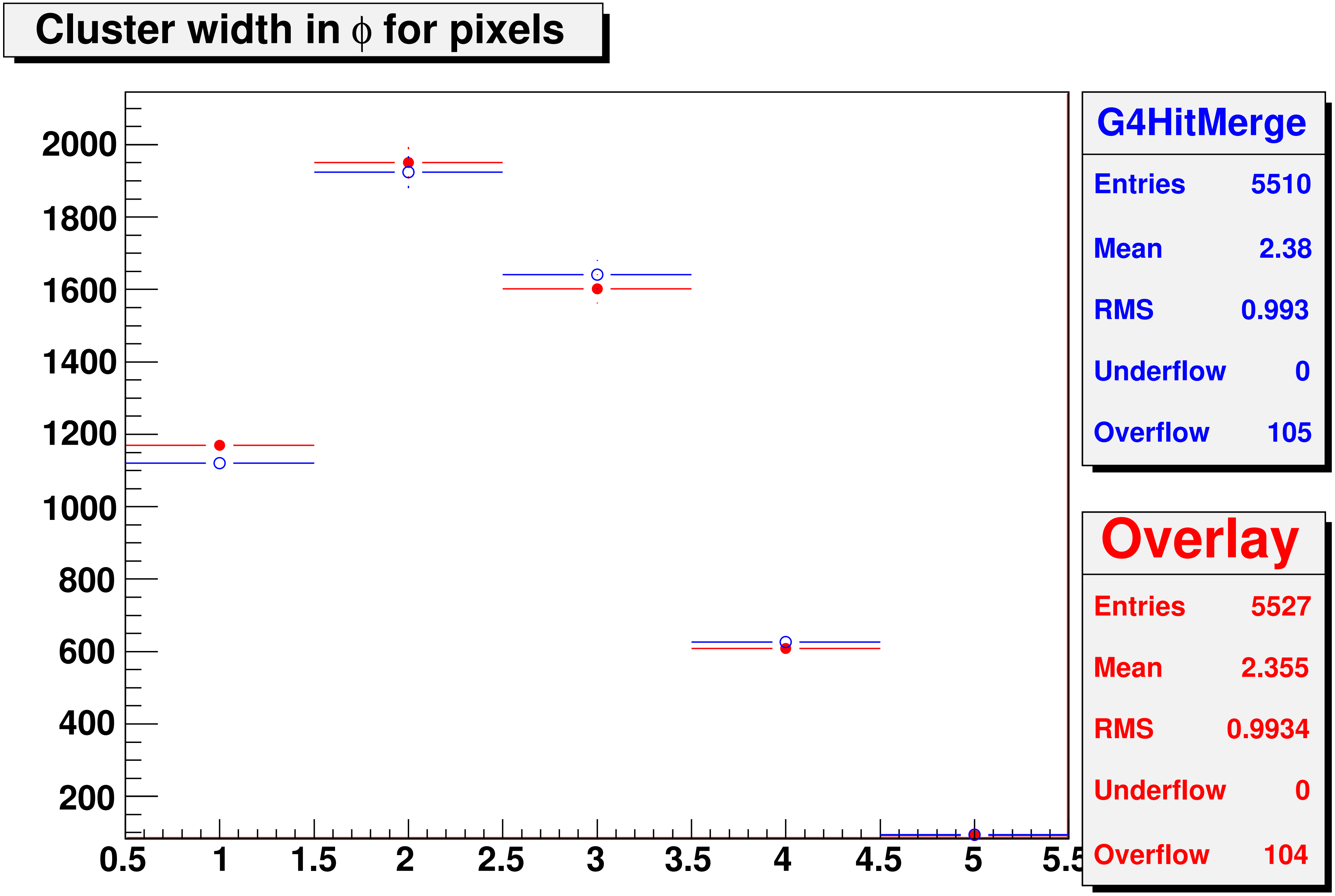
Pixel clus. η vs φ
φ
η
Overlay
Entries 1735
Mean x −0.05119
Mean y −0.007439
RMS x 1.445
RMS y 1.812
0 0 0
0 5505 0
0 0 0



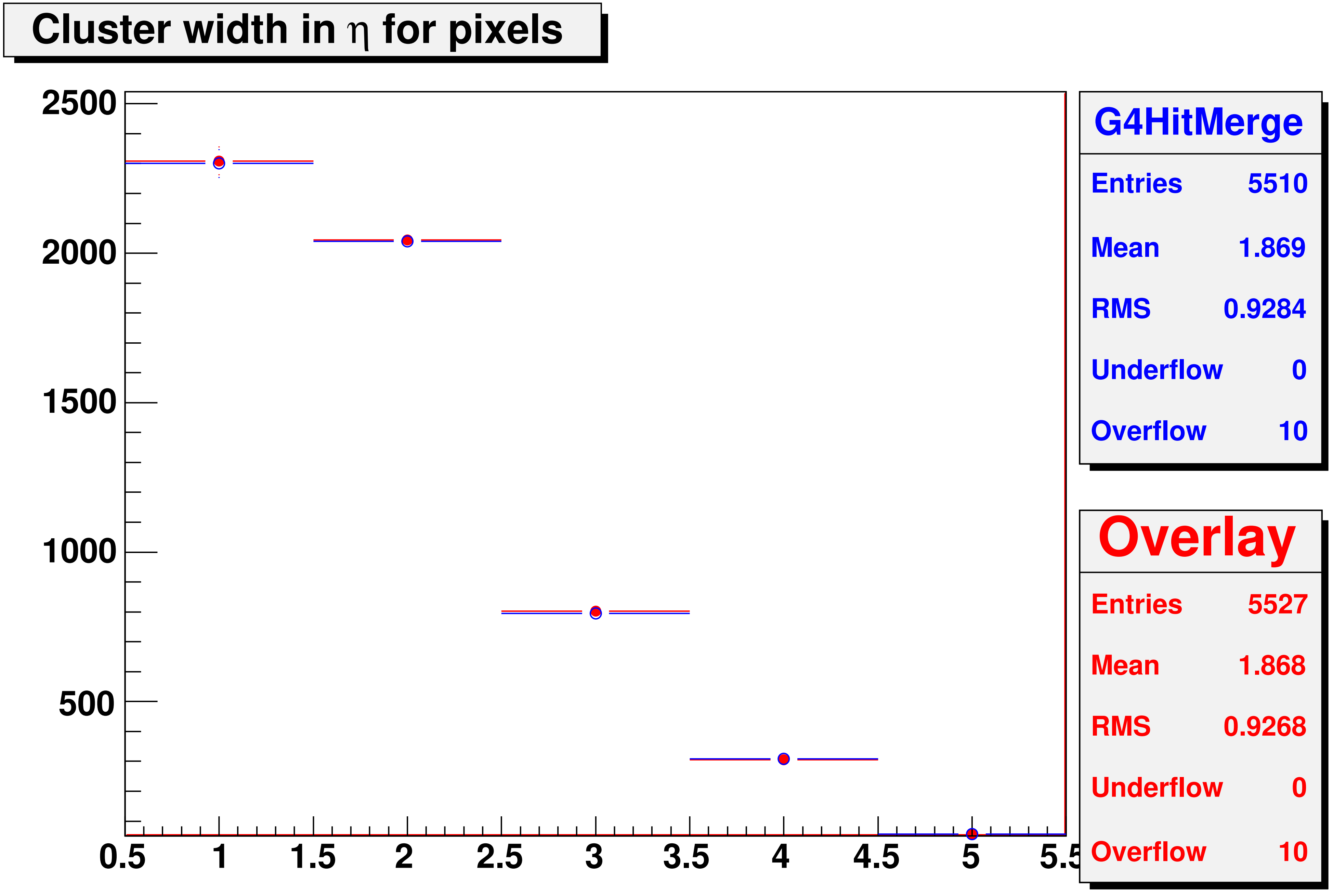
SCT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
η
Overlay
Entries 1735
Mean x −0.03706
Mean y −0.03904
RMS x 1.407
RMS y 1.815
0 0 0
0 14540 0
0 0 0


TRT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
η
Overlay
Entries 1735
Mean x 0.0002583
Mean y −0.01884
RMS x 1.149
RMS y 1.813
0 0 0
0 47892 0
0 0 0

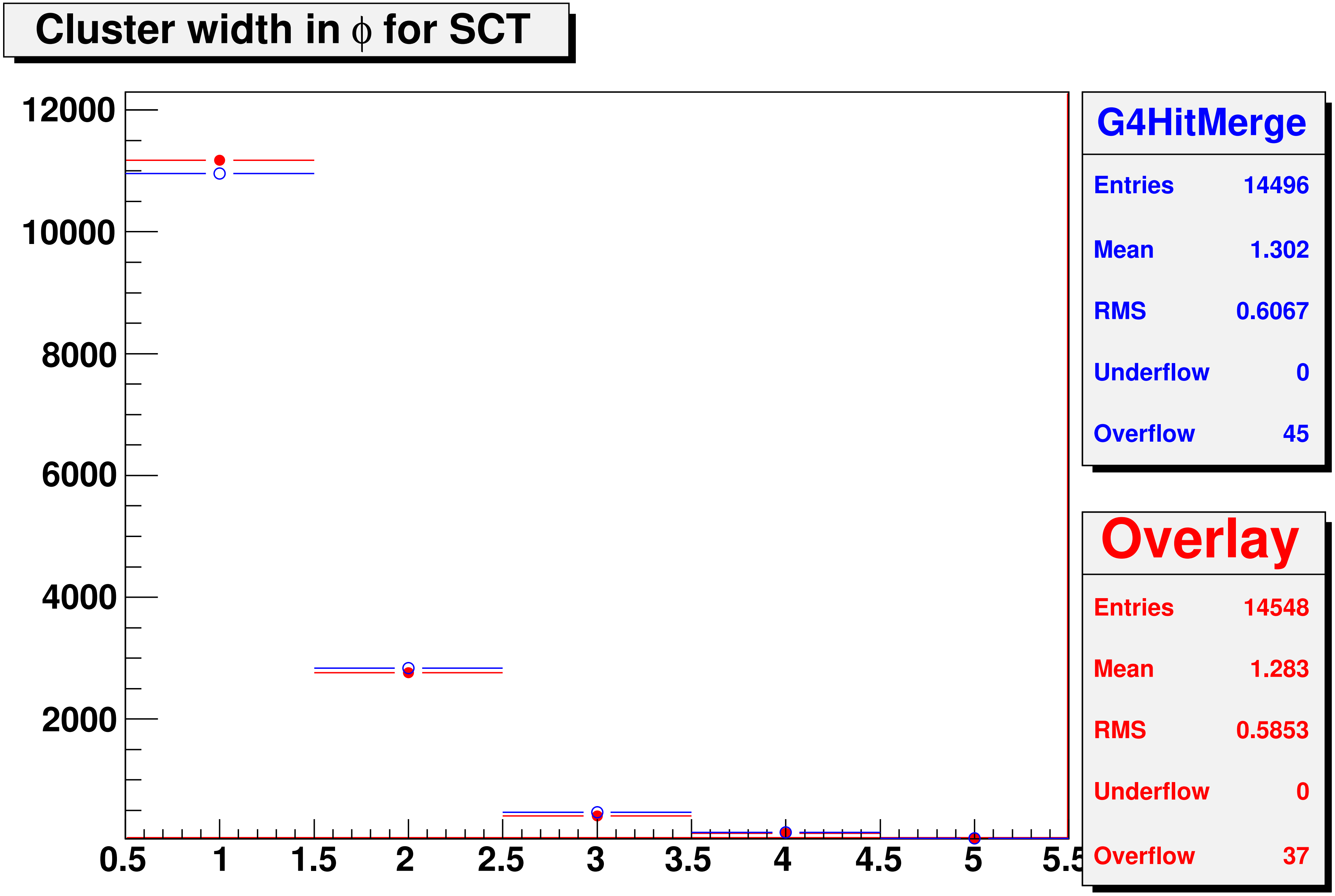

Cluster map plot RZ
z(mm)
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000
r(mm)
Overlay
Entries 67937
Mean x −5.72
Mean y 663.3
RMS x 1214
RMS y 257.4
0 0 0
0 67937 0
0 0 0



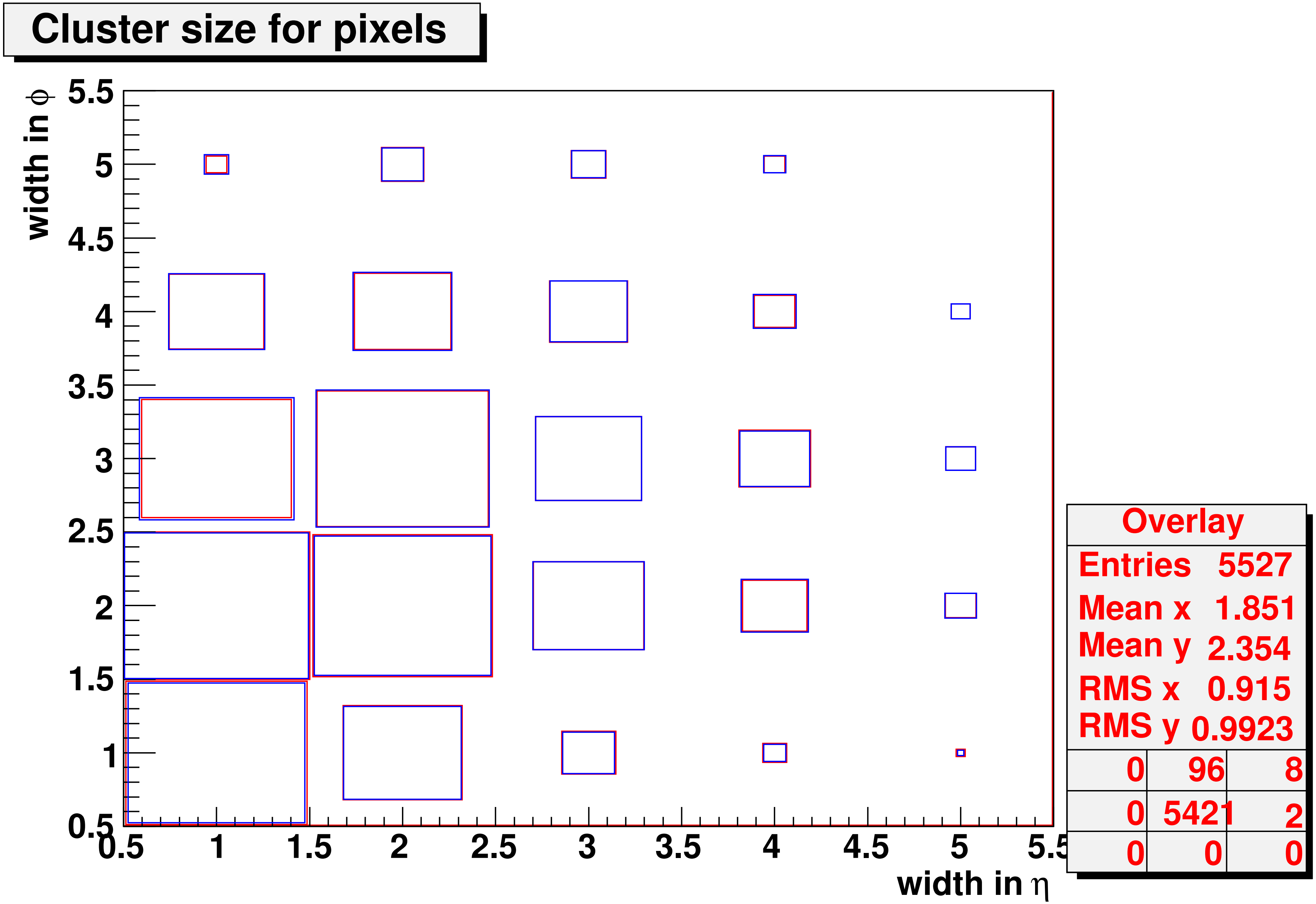
Cluster width in ϕ for pixels
2000
1800
1600
1400
1200
1000
800
600
400
200
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 5510
Mean 2.38
RMS 0.993
Underflow 0
Overflow 105
Overlay
Entries 5527
Mean 2.355
RMS 0.9934
Underflow 0
Overflow 104

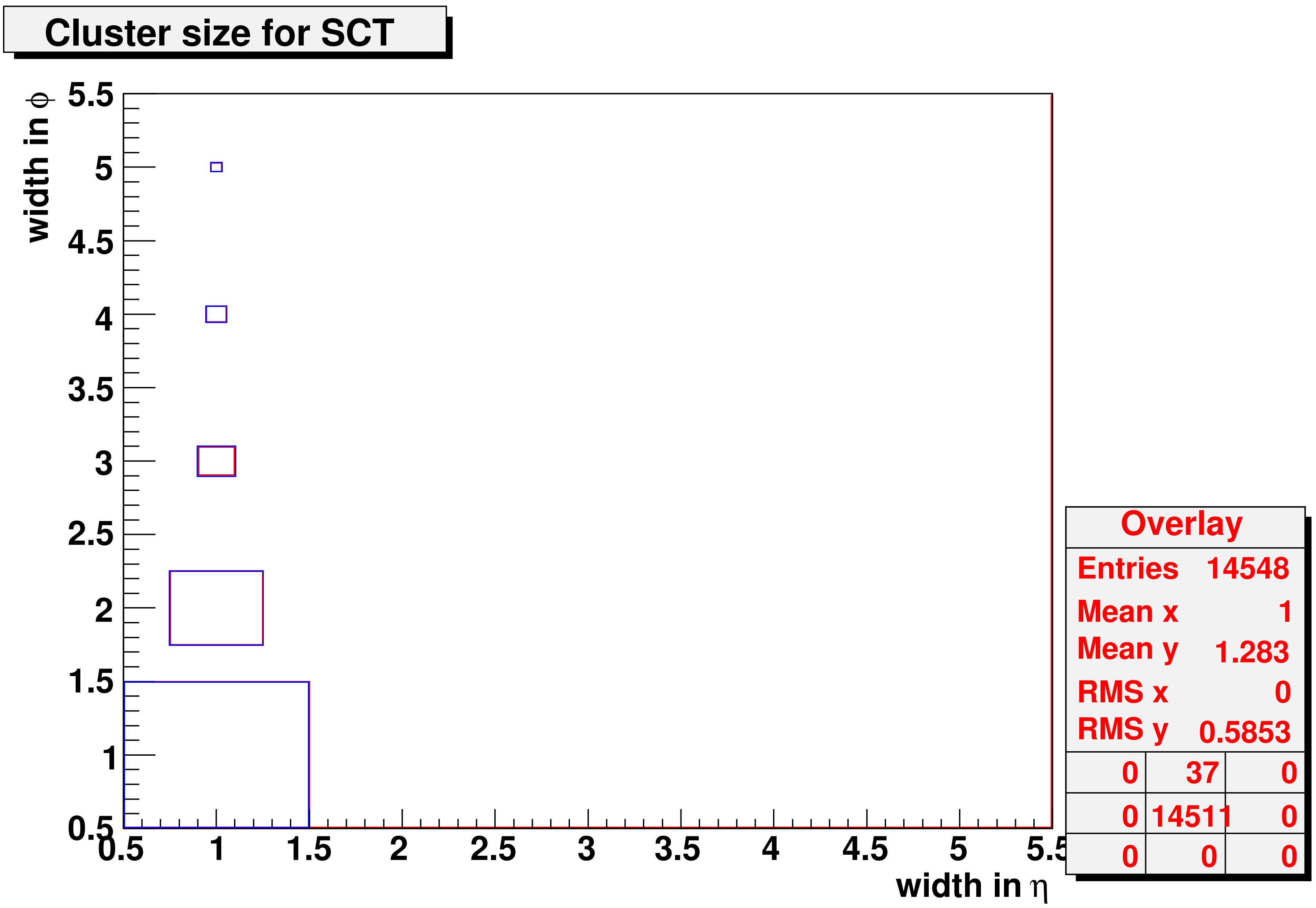


Cluster width in η for pixels
2500
2000
1500
1000
500
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 5510
Mean 1.869
RMS 0.9284
Underflow 0
Overflow 10
Overlay
Entries 5527
Mean 1.868
RMS 0.9268
Underflow 0
Overflow 10

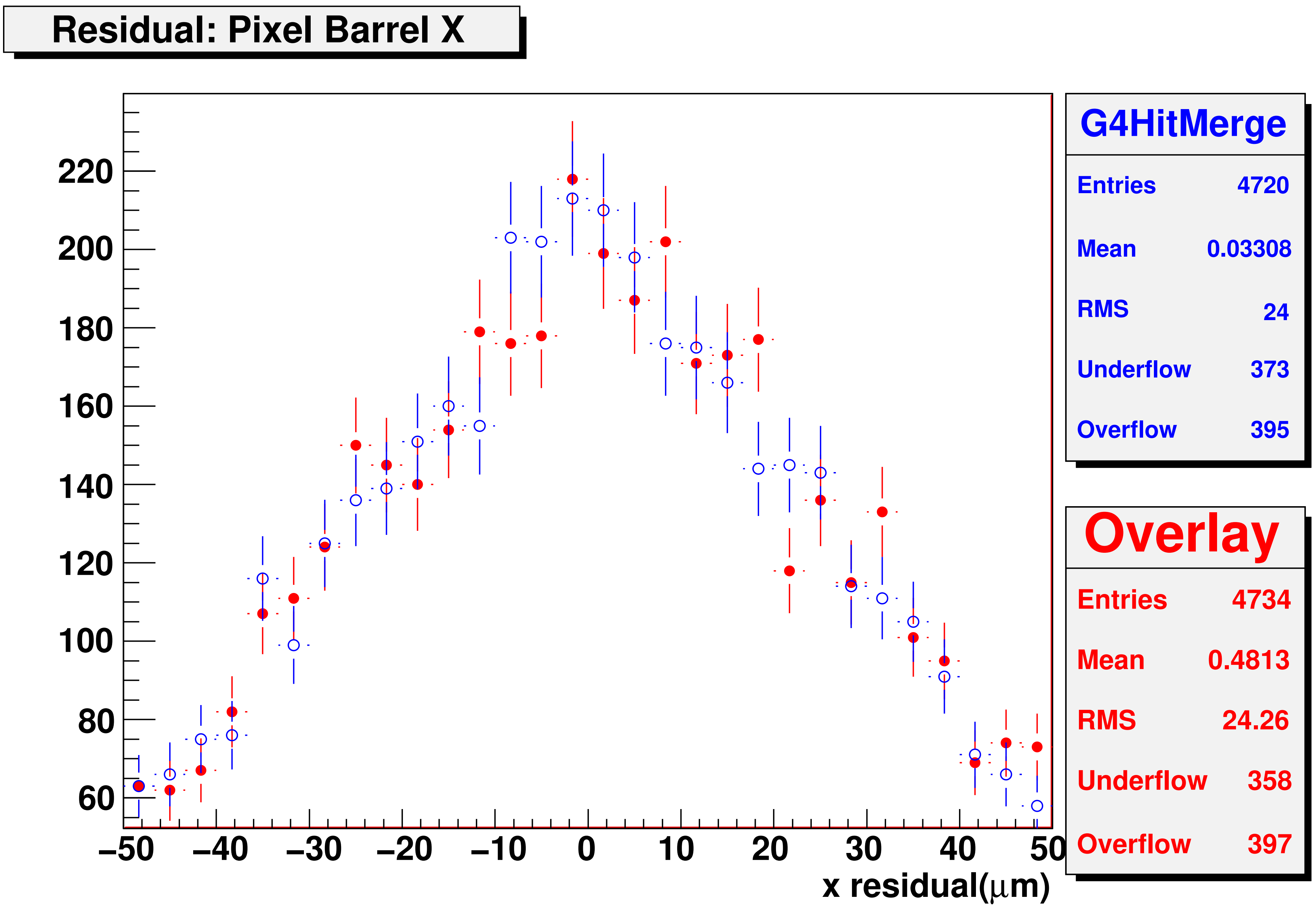


Cluster width in ϕ for SCT
12000
10000
8000
6000
4000
2000
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 14496
Mean 1.302
RMS 0.6067
Underflow 0
Overflow 45
Overlay
Entries 14548
Mean 1.283
RMS 0.5853
Underflow 0
Overflow 37

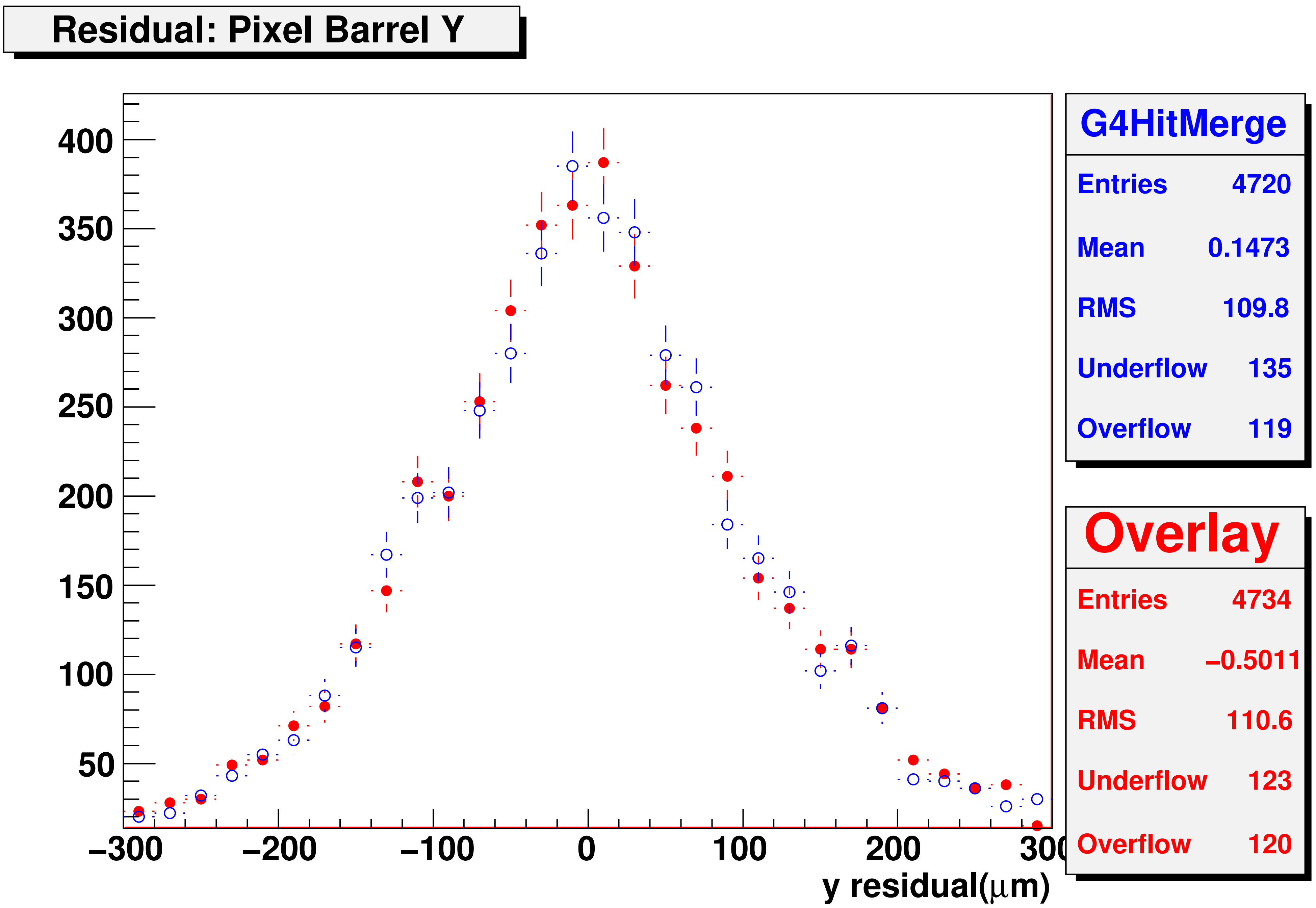

Cluster size for pixels
width in ϕ
width in η
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 5527
Mean x 1.851
Mean y 2.354
RMS x 0.915
RMS y 0.9923
0 96 8
0 5421 2
0 0 0



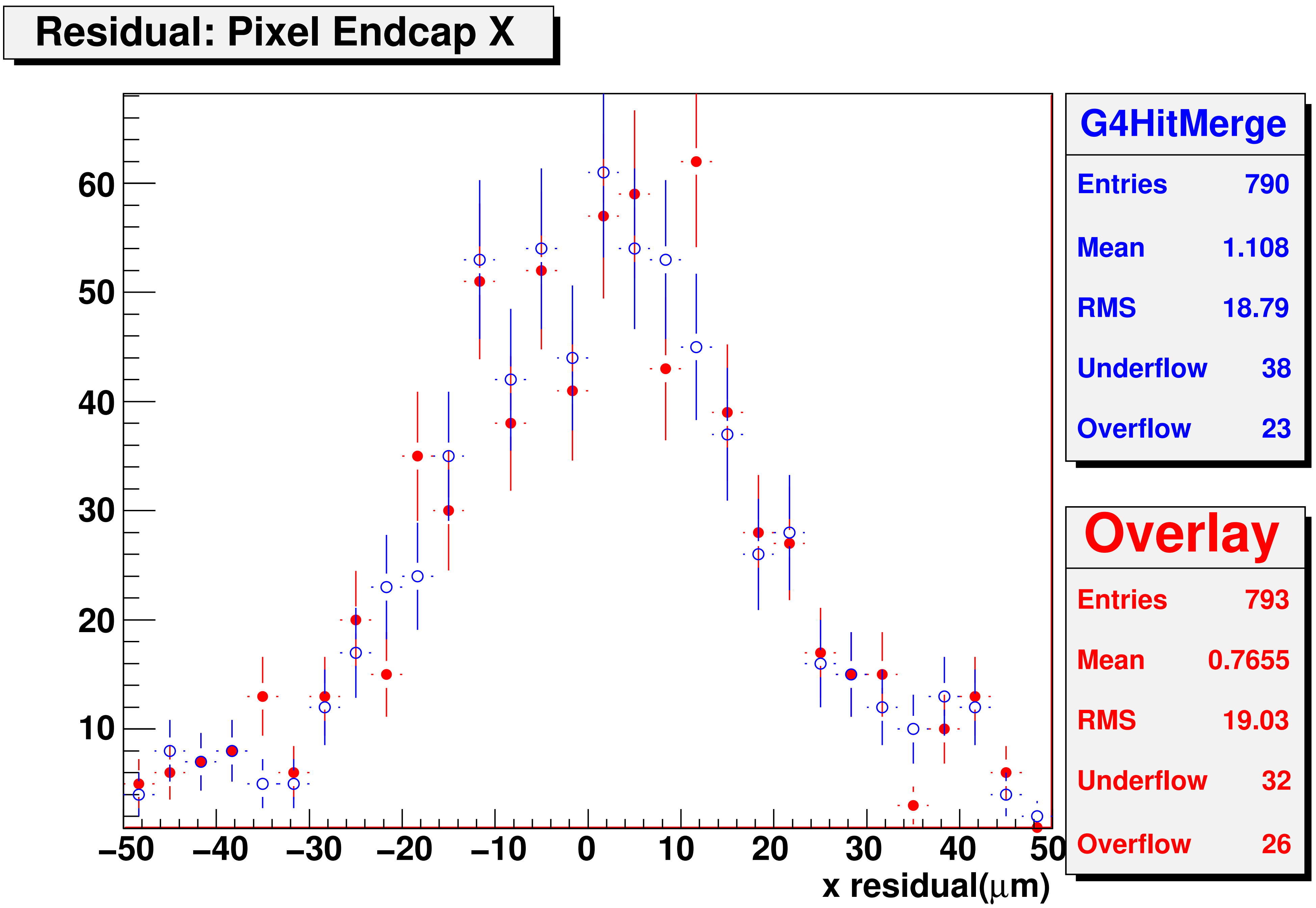
Cluster size for SCT
width in φ
width in η
Overlay
Entries 14548
Mean x 1
Mean y 1.283
RMS x 0
RMS y 0.5853
0 37 0
0 14511 0
0 0 0



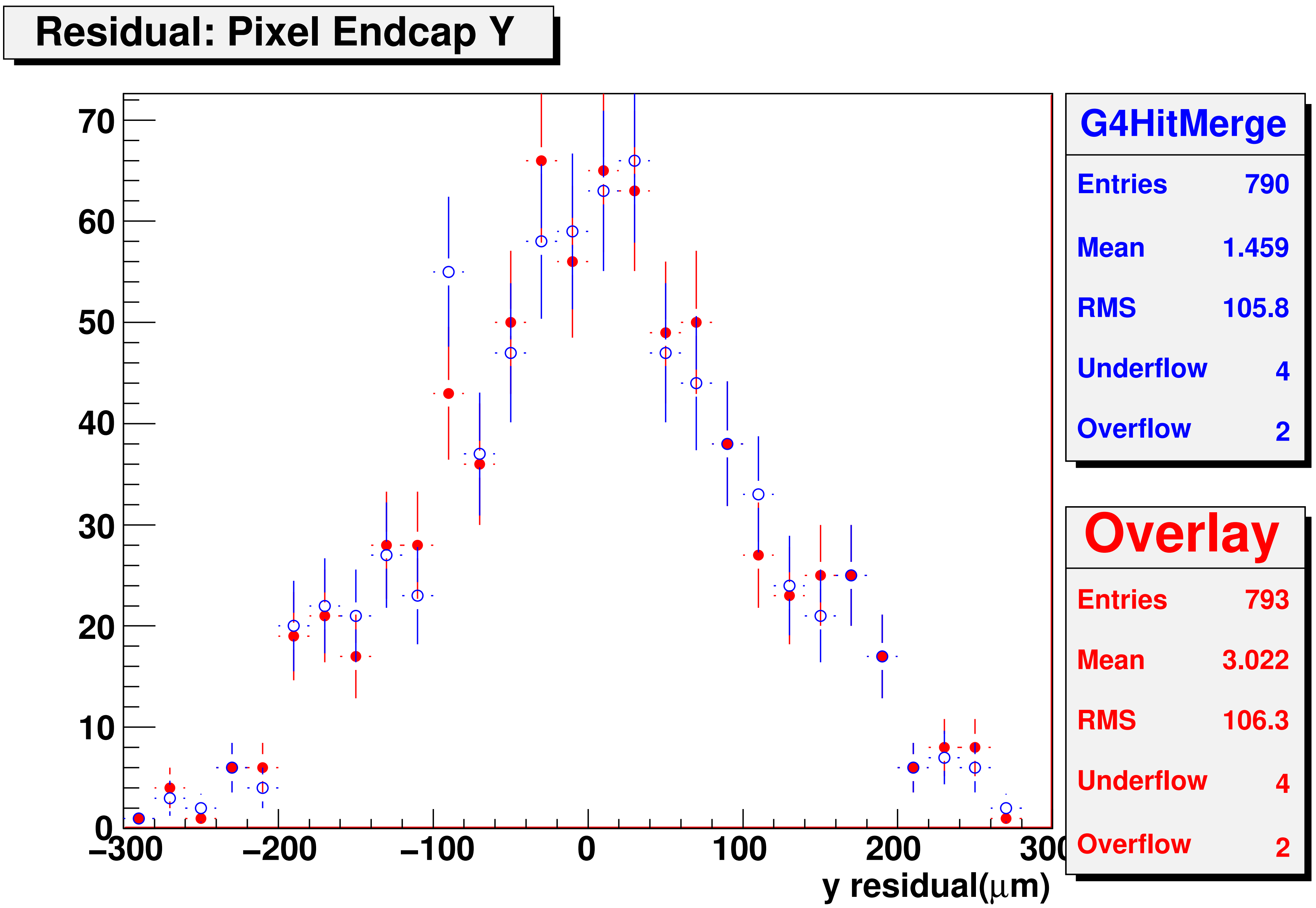
Residual: Pixel Barrel X
220
200
180
160
140
120
100
80
60
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 4720
Mean 0.03308
RMS 24
Underflow 373
Overflow 395
Overlay
Entries 4734
Mean 0.4813
RMS 24.26
Underflow 358
Overflow 397



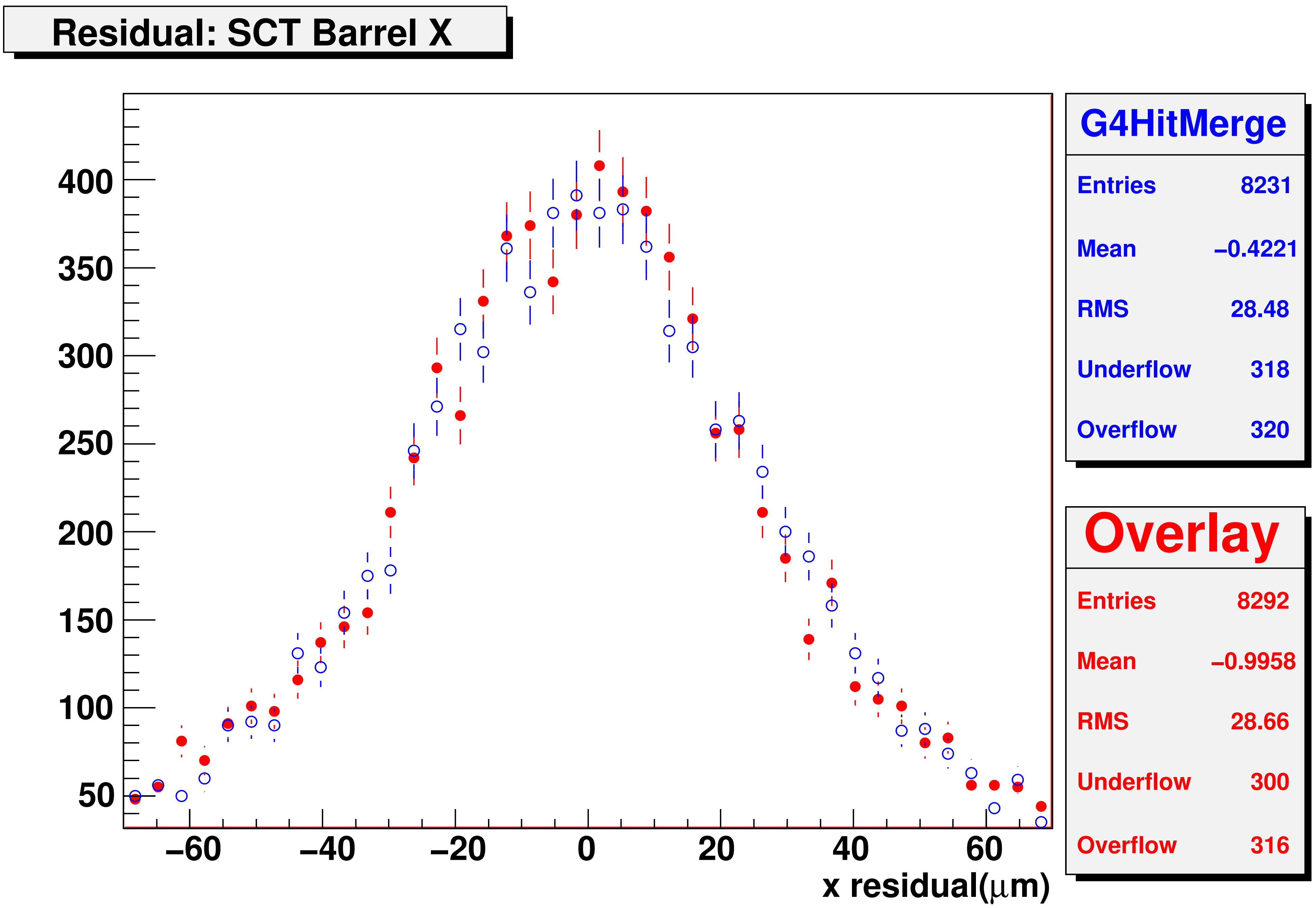
Residual: Pixel Barrel Y
G4HitMerge
Entries 4720
Mean 0.1473
RMS 109.8
Underflow 135
Overflow 119
Overlay
Entries 4734
Mean -0.5011
RMS 110.6
Underflow 123
Overflow 120
400
350
300
250
200
150
100
50
-300
-200
-100
0
100
200
300
y residual(μm)



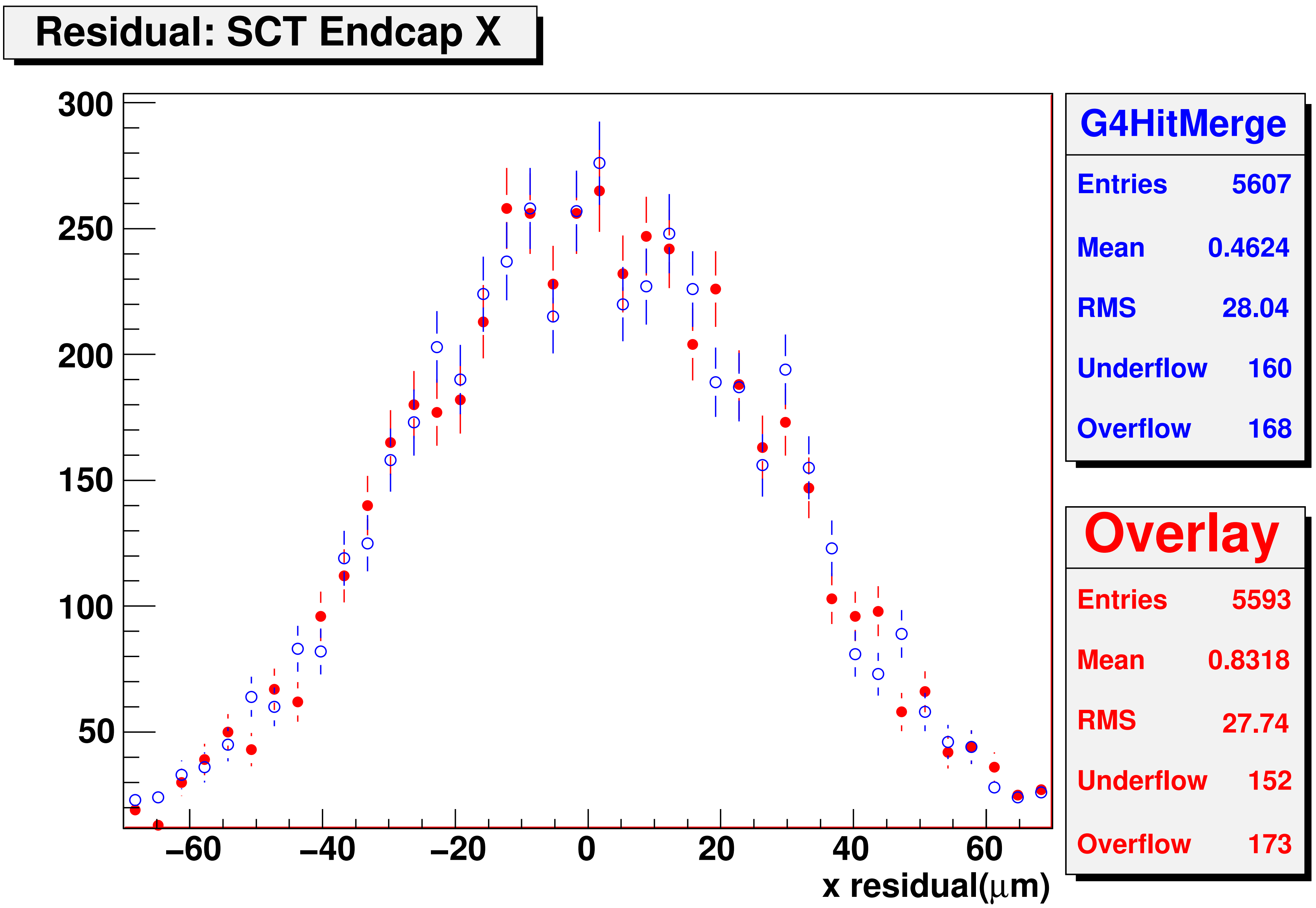
Residual: Pixel Endcap X
60
50
40
30
20
10
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 790
Mean 1.108
RMS 18.79
Underflow 38
Overflow 23
Overlay
Entries 793
Mean 0.7655
RMS 19.03
Underflow 32
Overflow 26



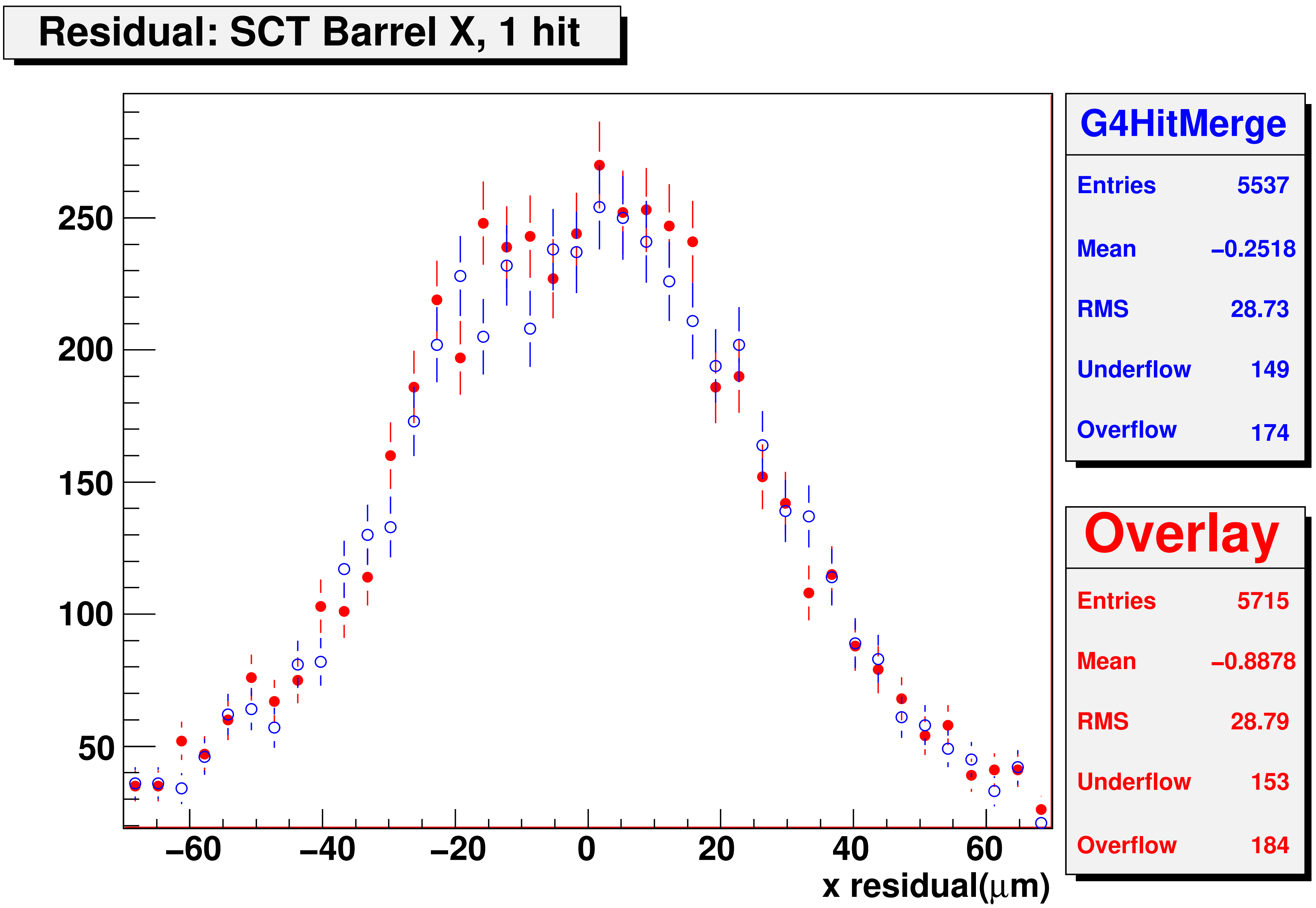
Residual: Pixel Endcap Y
G4HitMerge
Entries 790
Mean 1.459
RMS 105.8
Underflow 4
Overflow 2
Overlay
Entries 793
Mean 3.022
RMS 106.3
Underflow 4
Overflow 2
70
60
50
40
30
20
10
0
−300
−200
−100
0
100
200
300
y residual(μm)

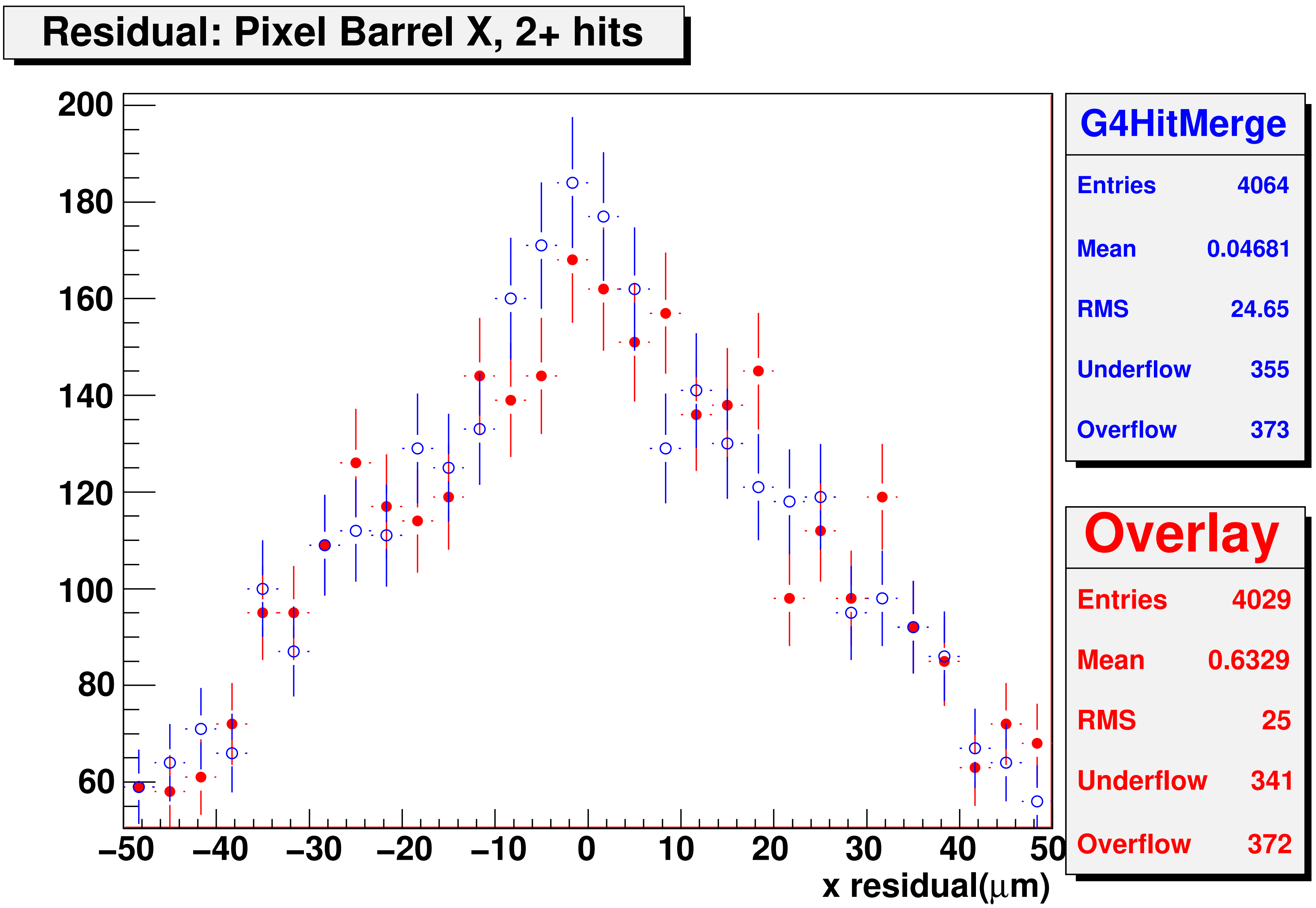


Residual: SCT Barrel X
400
350
300
250
200
150
100
50
-60
-40
-20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 8231
Mean -0.4221
RMS 28.48
Underflow 318
Overflow 320
Overlay
Entries 8292
Mean -0.9958
RMS 28.66
Underflow 300
Overflow 316

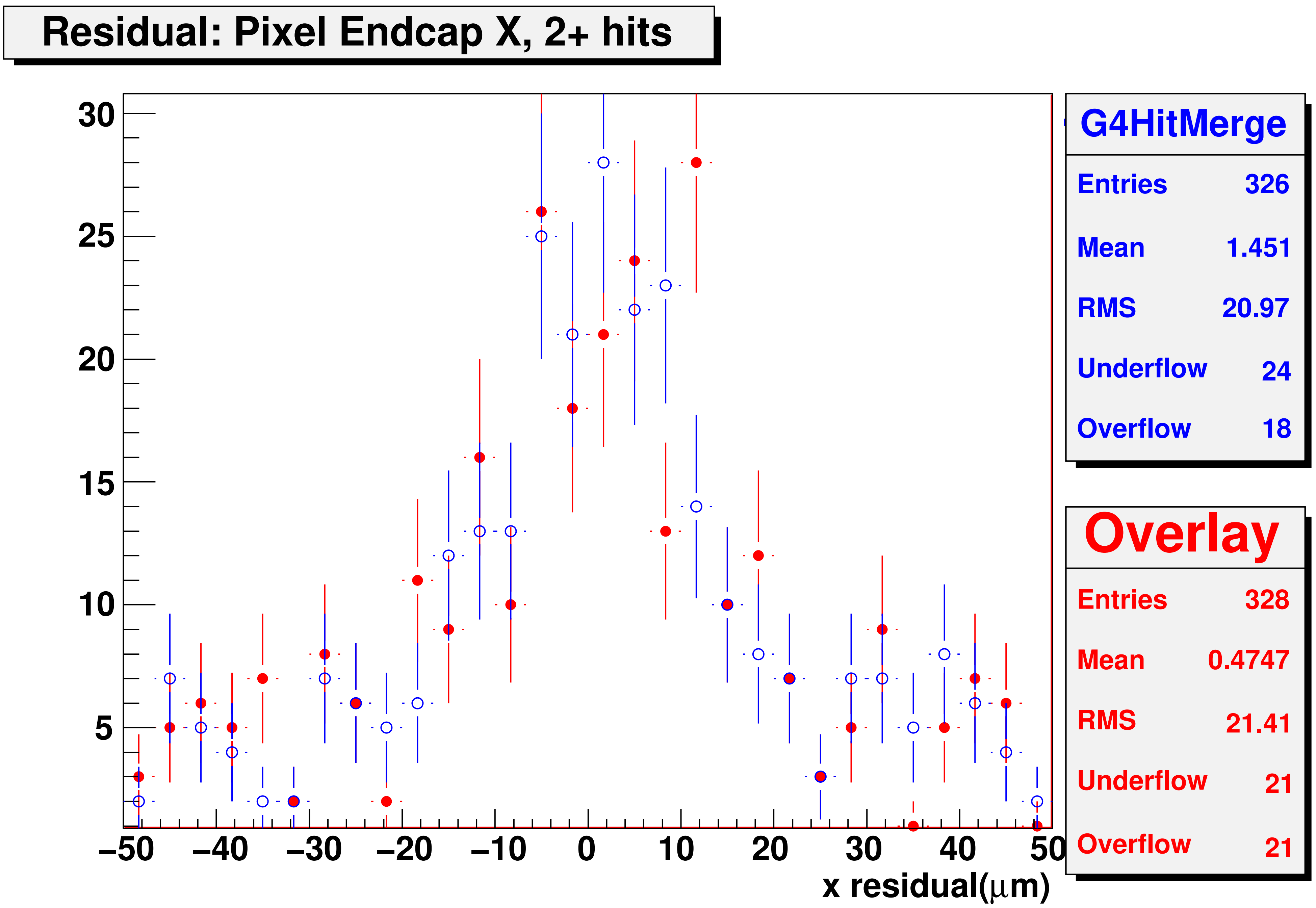


Residual: SCT Endcap X
300
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 5607
Mean 0.4624
RMS 28.04
Underflow 160
Overflow 168
Overlay
Entries 5593
Mean 0.8318
RMS 27.74
Underflow 152
Overflow 173

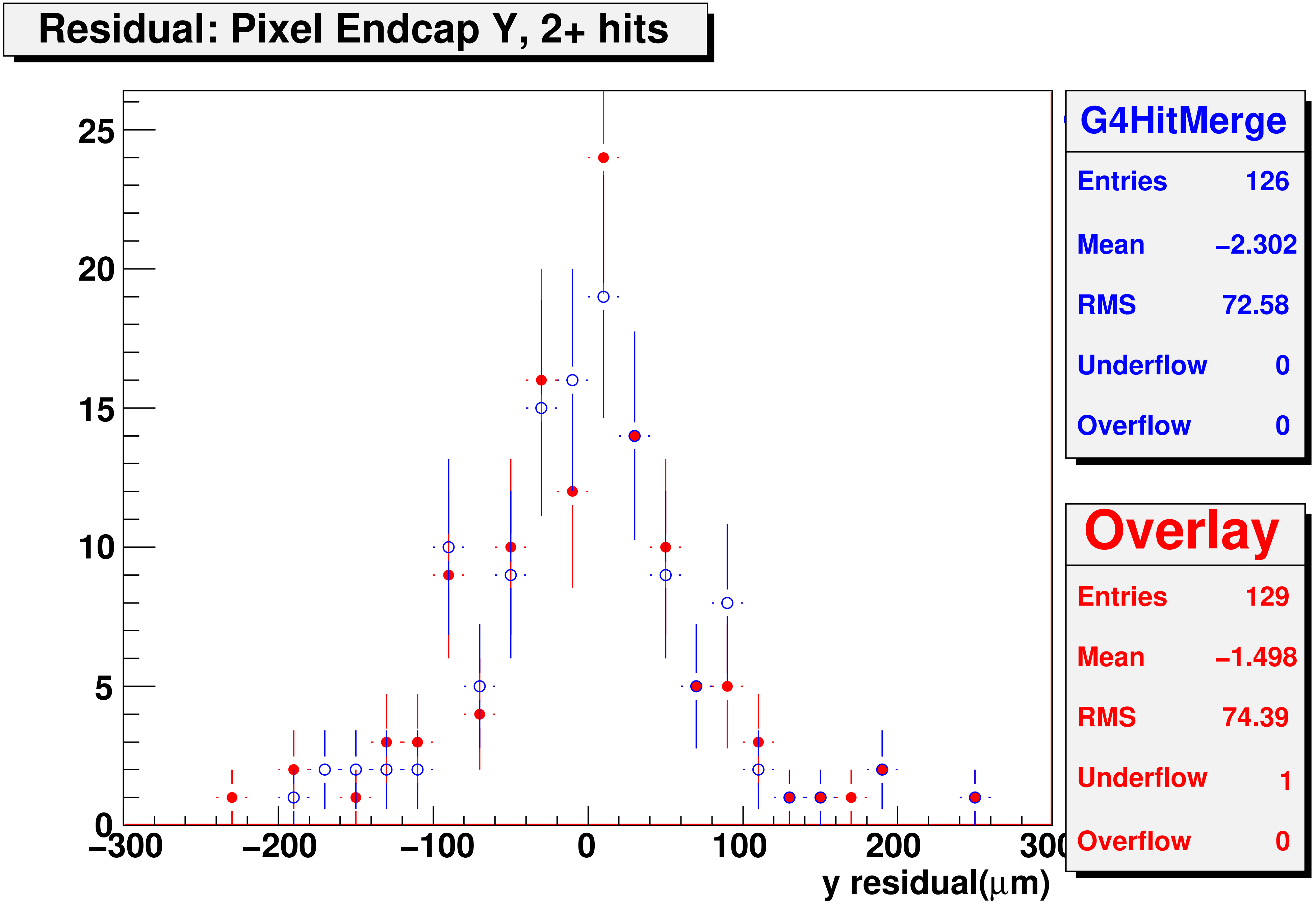

Residual: SCT Barrel X, 1 hit
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 5537
Mean −0.2518
RMS 28.73
Underflow 149
Overflow 174
Overlay
Entries 5715
Mean −0.8878
RMS 28.79
Underflow 153
Overflow 184



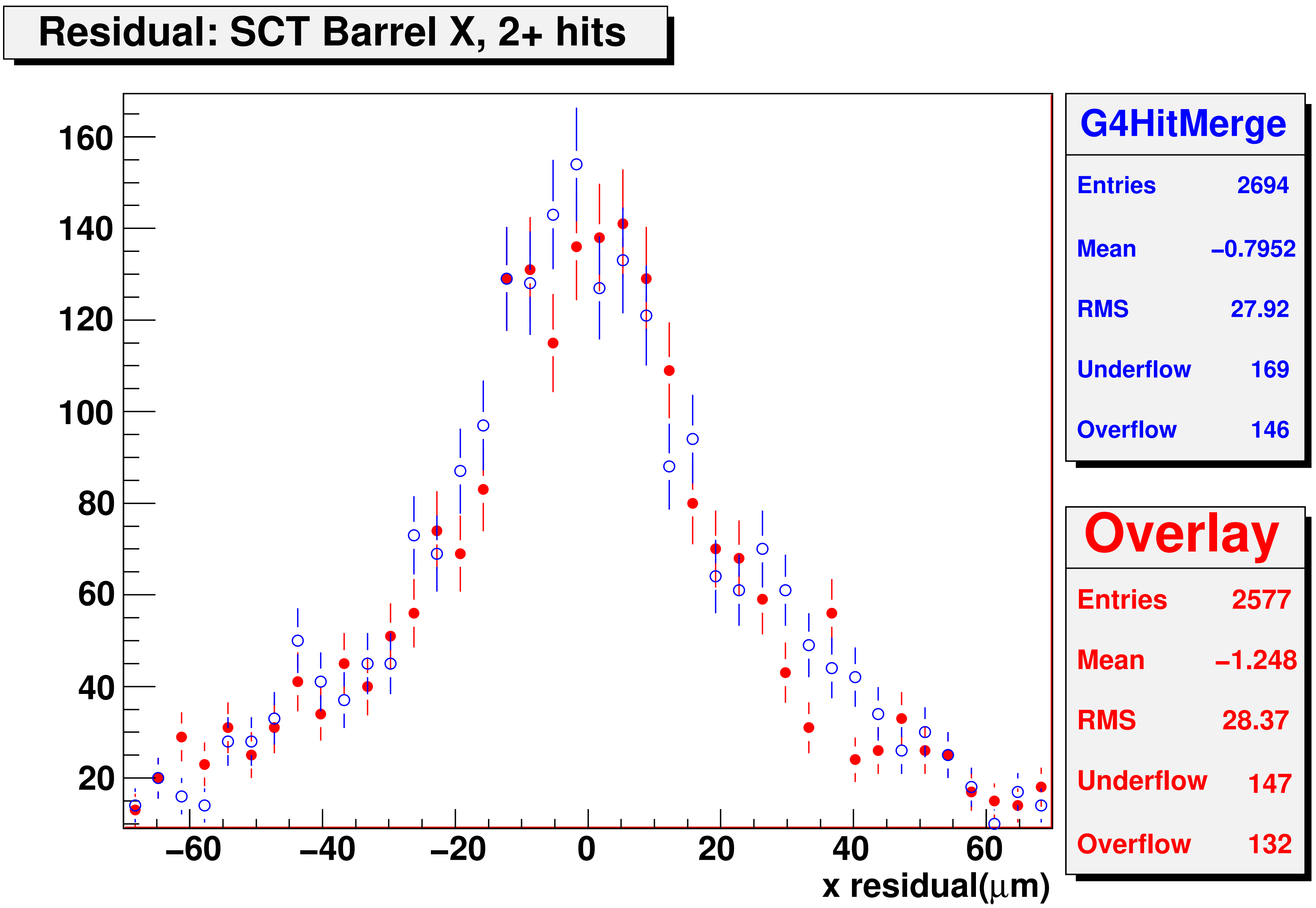
Residual: Pixel Barrel X, 2+ hits
G4HitMerge
Entries 4064
Mean 0.04681
RMS 24.65
Underflow 355
Overflow 373
Overlay
Entries 4029
Mean 0.6329
RMS 25
Underflow 341
Overflow 372
200
180
160
140
120
100
80
60
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)



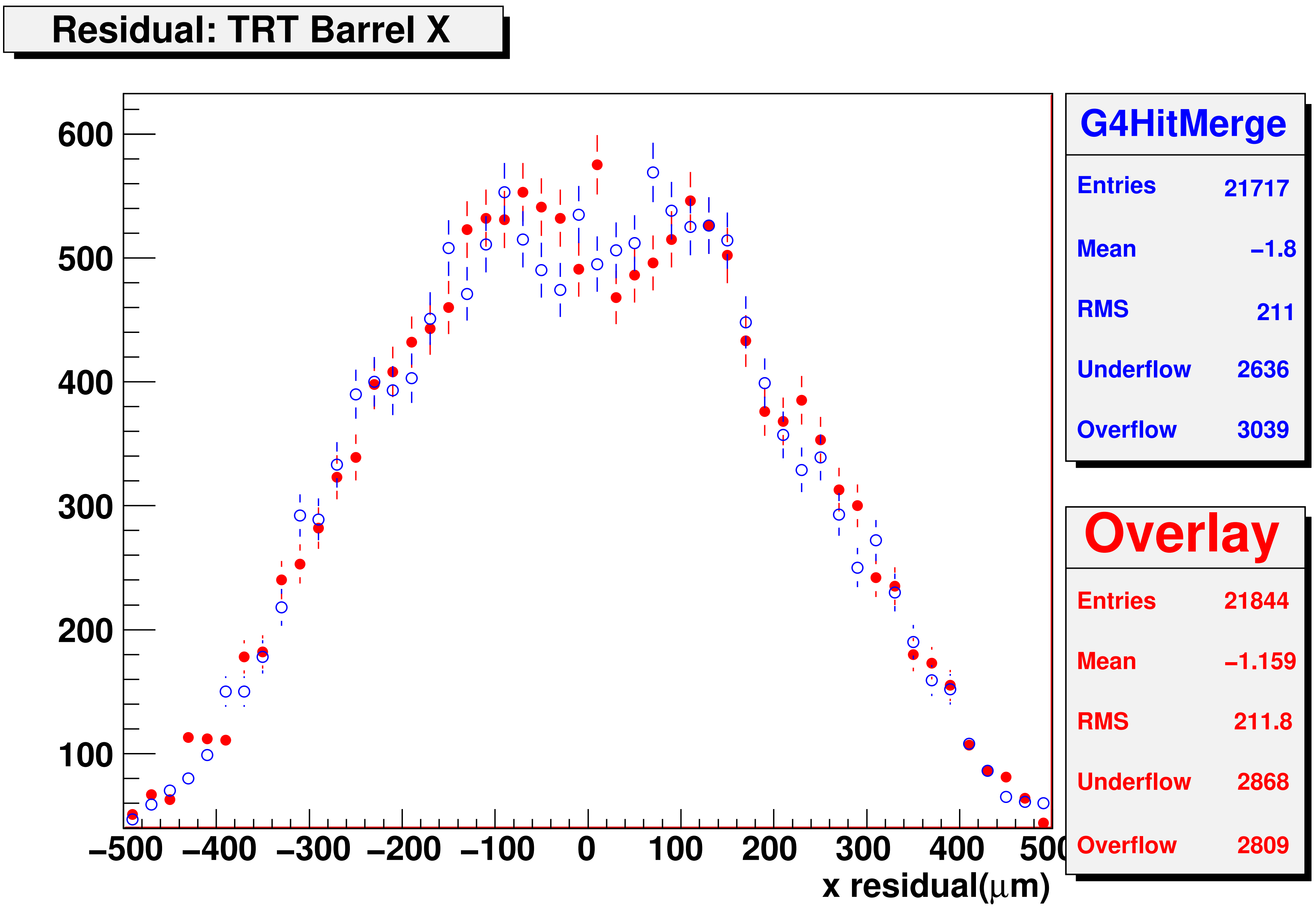
Residual: Pixel Endcap X, 2+ hits
G4HitMerge
Entries 326
Mean 1.451
RMS 20.97
Underflow 24
Overflow 18
Overlay
Entries 328
Mean 0.4747
RMS 21.41
Underflow 21
Overflow 21
x residual(μm)



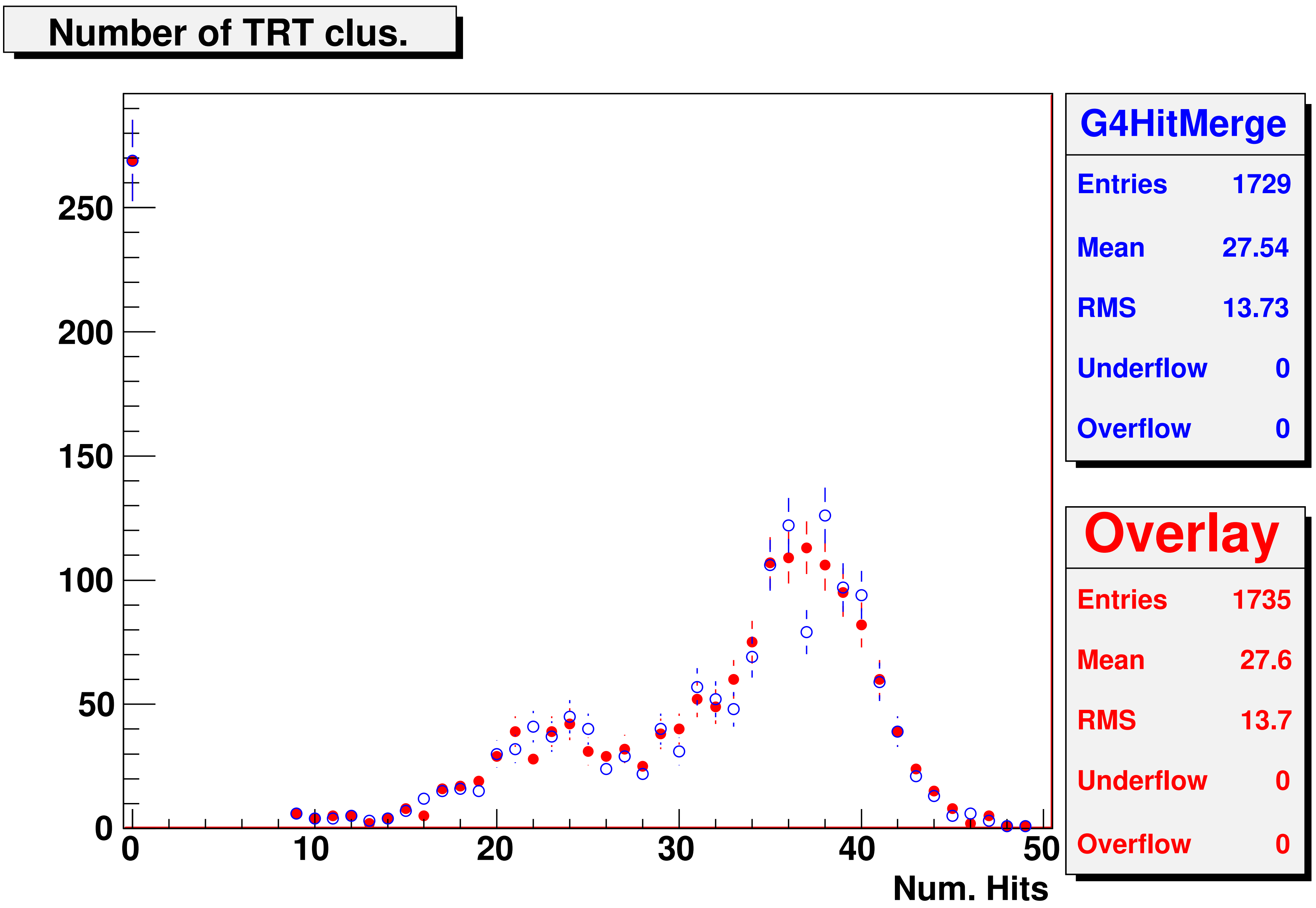
Residual: Pixel Endcap Y, 2+ hits
G4HitMerge
Entries 126
Mean −2.302
RMS 72.58
Underflow 0
Overflow 0
Overlay
Entries 129
Mean −1.498
RMS 74.39
Underflow 1
Overflow 0
0
5
10
15
20
25
−300
−200
−100
0
100
200
300
y residual(μm)

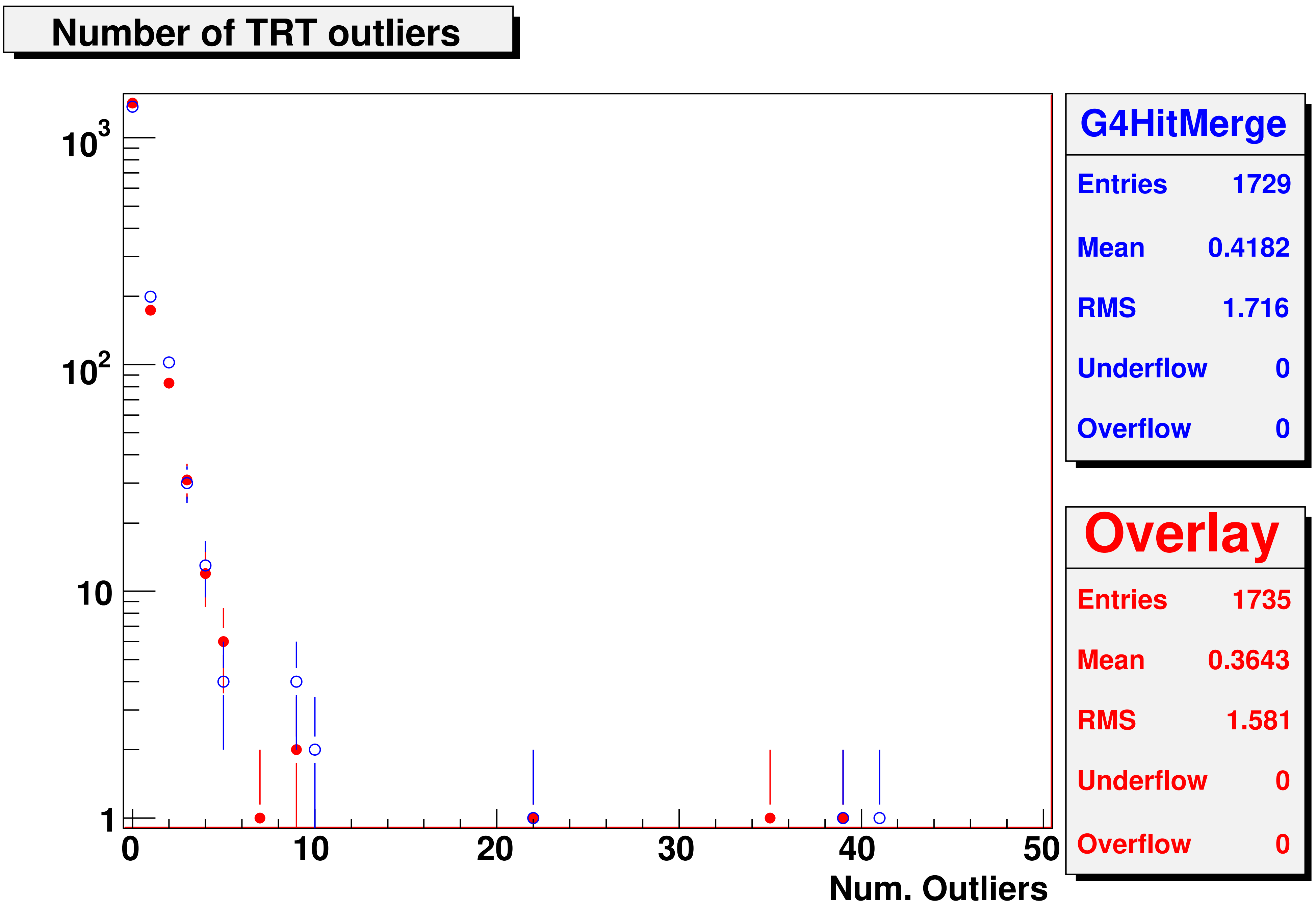


Residual: SCT Barrel X, 2+ hits
160
140
120
100
80
60
40
20
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 2694
Mean −0.7952
RMS 27.92
Underflow 169
Overflow 146
Overlay
Entries 2577
Mean −1.248
RMS 28.37
Underflow 147
Overflow 132

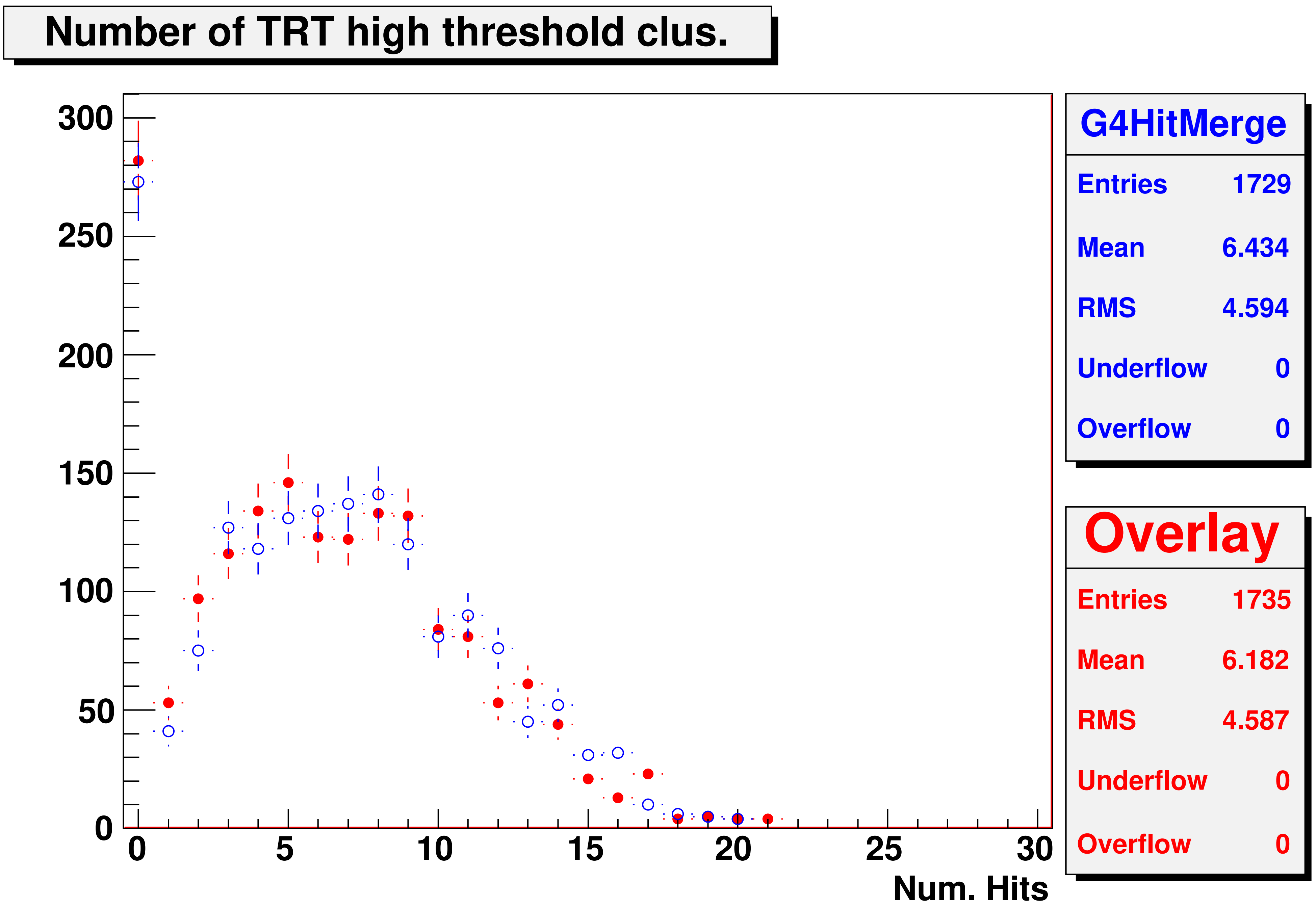


Residual: TRT Barrel X
600
500
400
300
200
100
−500
−400
−300
−200
−100
0
100
200
300
400
500
x residual(μm)
G4HitMerge
Entries 21717
Mean −1.8
RMS 211
Underflow 2636
Overflow 3039
Overlay
Entries 21844
Mean −1.159
RMS 211.8
Underflow 2868
Overflow 2809

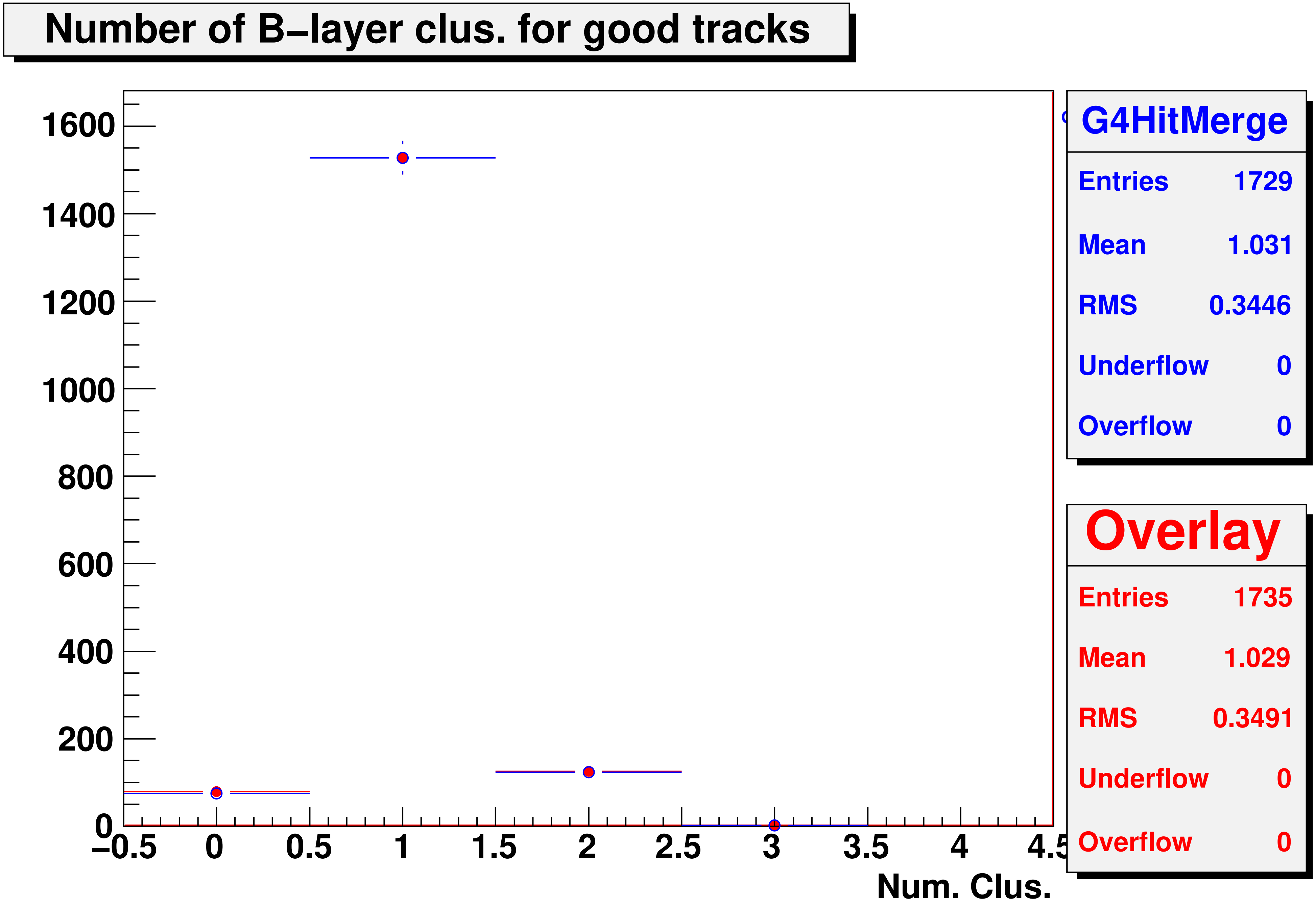

Number of TRT clus.
G4HitMerge
Entries 1729
Mean 27.54
RMS 13.73
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 27.6
RMS 13.7
Underflow 0
Overflow 0
0
50
100
150
200
250
0
10
20
30
40
50
Num. Hits

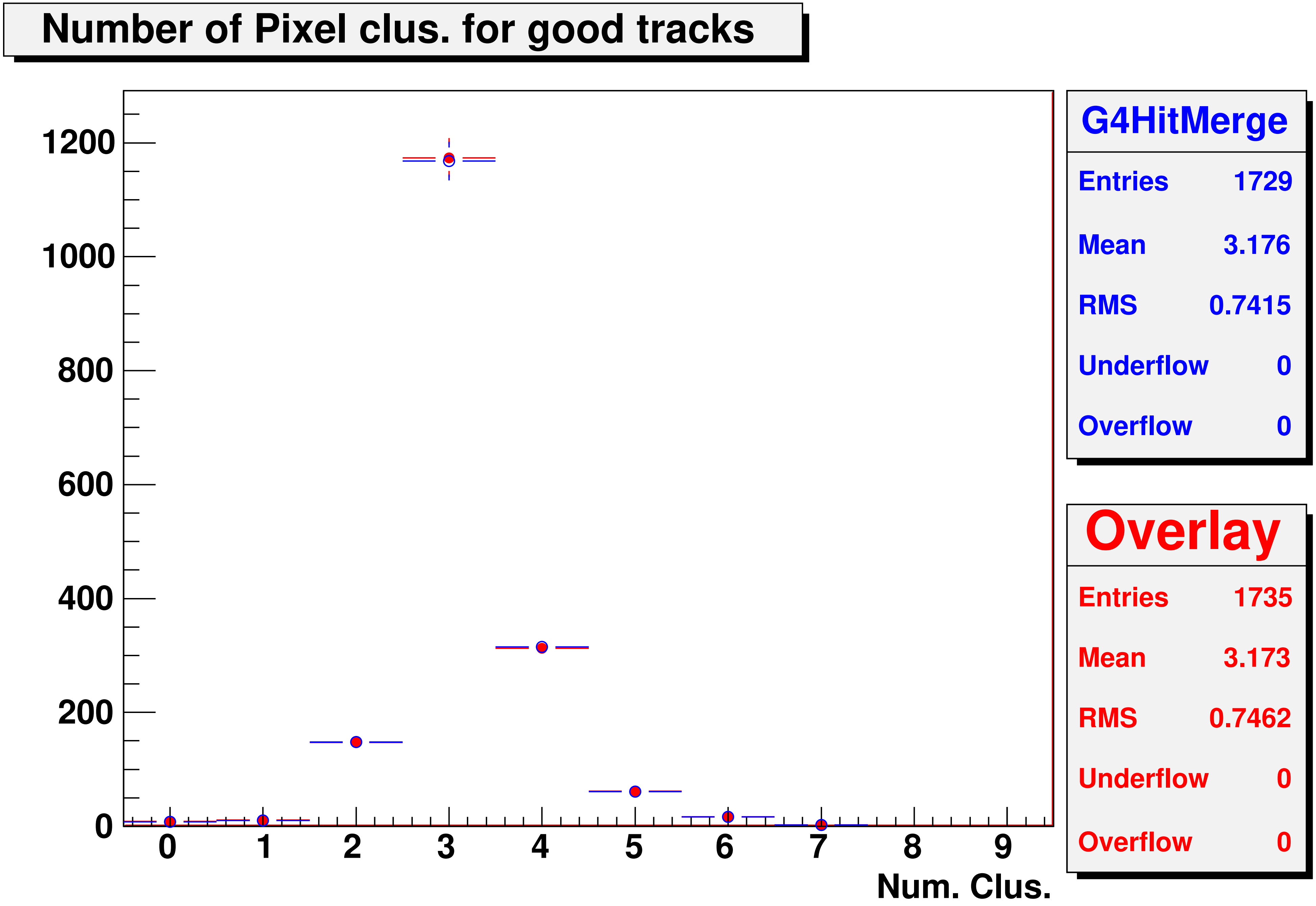


Number of TRT outliers
G4HitMerge
Entries 1729
Mean 0.4182
RMS 1.716
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 0.3643
RMS 1.581
Underflow 0
Overflow 0
Num. Outliers

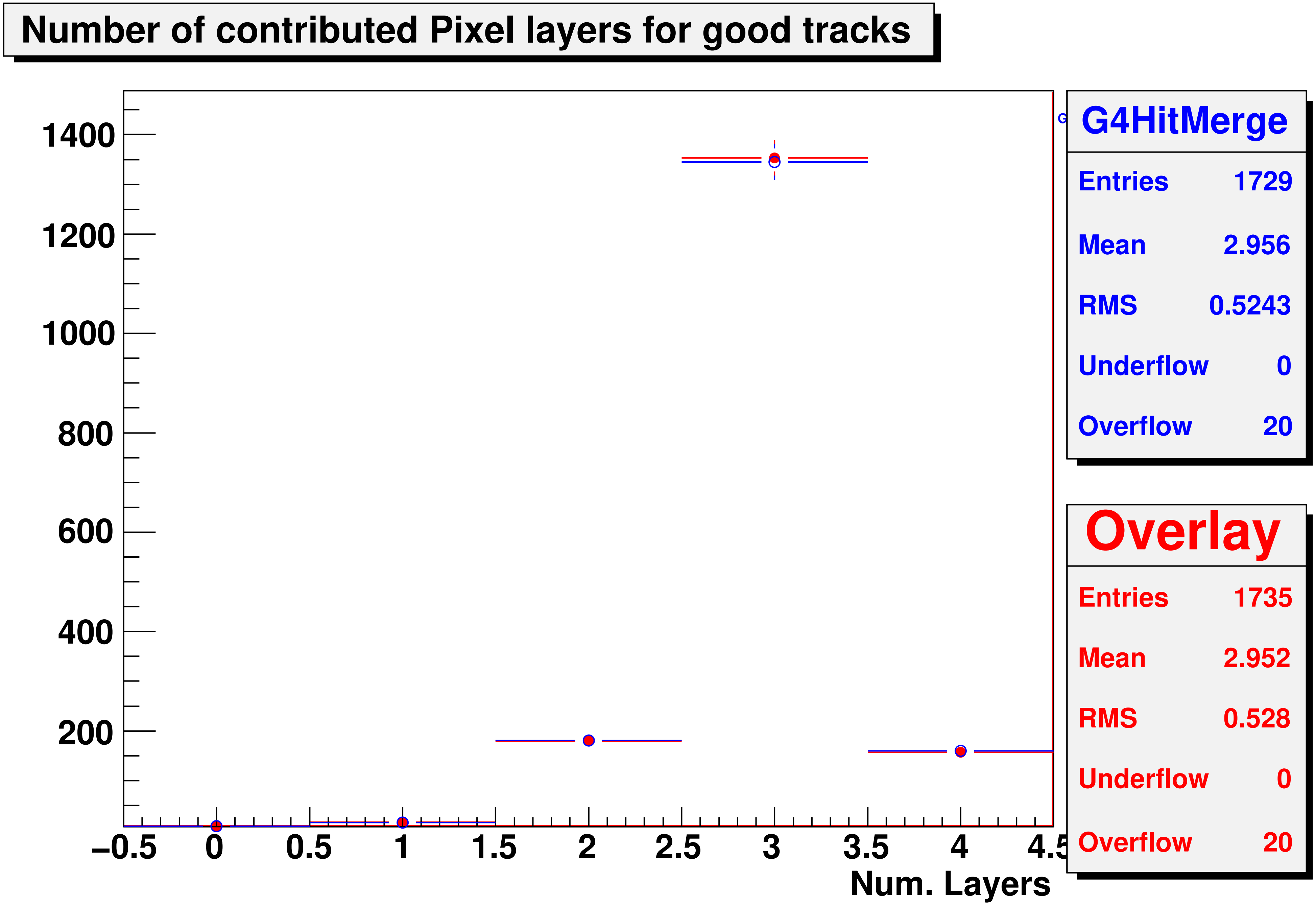


Number of TRT high threshold clus.
G4HitMerge
Entries 1729
Mean 6.434
RMS 4.594
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 6.182
RMS 4.587
Underflow 0
Overflow 0
Num. Hits
0
5
10
15
20
25
30
0
50
100
150
200
250
300

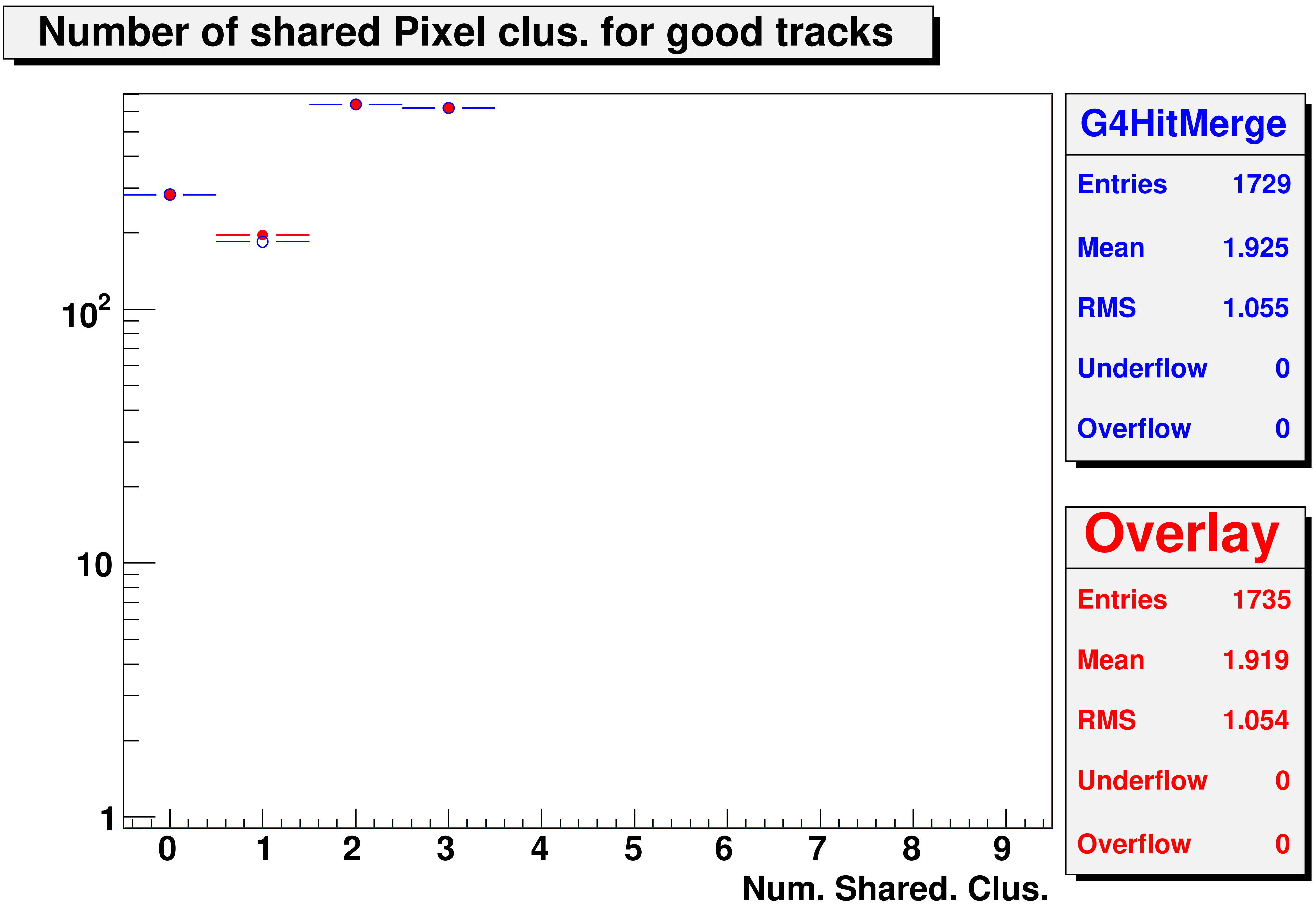

Number of B−layer clus. for good tracks
1600
1400
1200
1000
800
600
400
200
0
−0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Clus.
G4HitMerge
Entries 1729
Mean 1.031
RMS 0.3446
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 1.029
RMS 0.3491
Underflow 0
Overflow 0

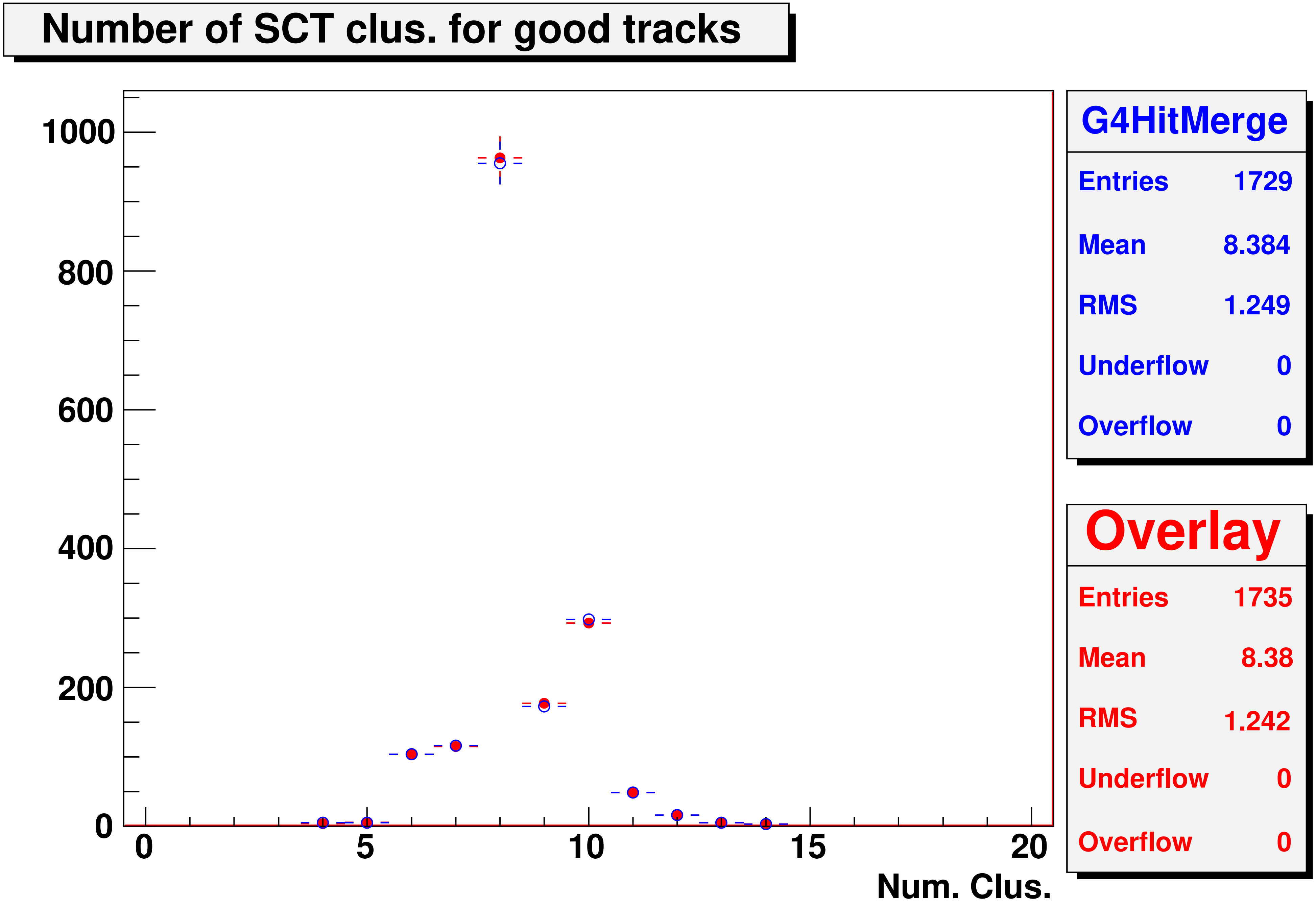


Number of Pixel clus. for good tracks
1200
1000
800
600
400
200
0
0 1 2 3 4 5 6 7 8 9
Num. Clus.
G4HitMerge
Entries 1729
Mean 3.176
RMS 0.7415
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 3.173
RMS 0.7462
Underflow 0
Overflow 0

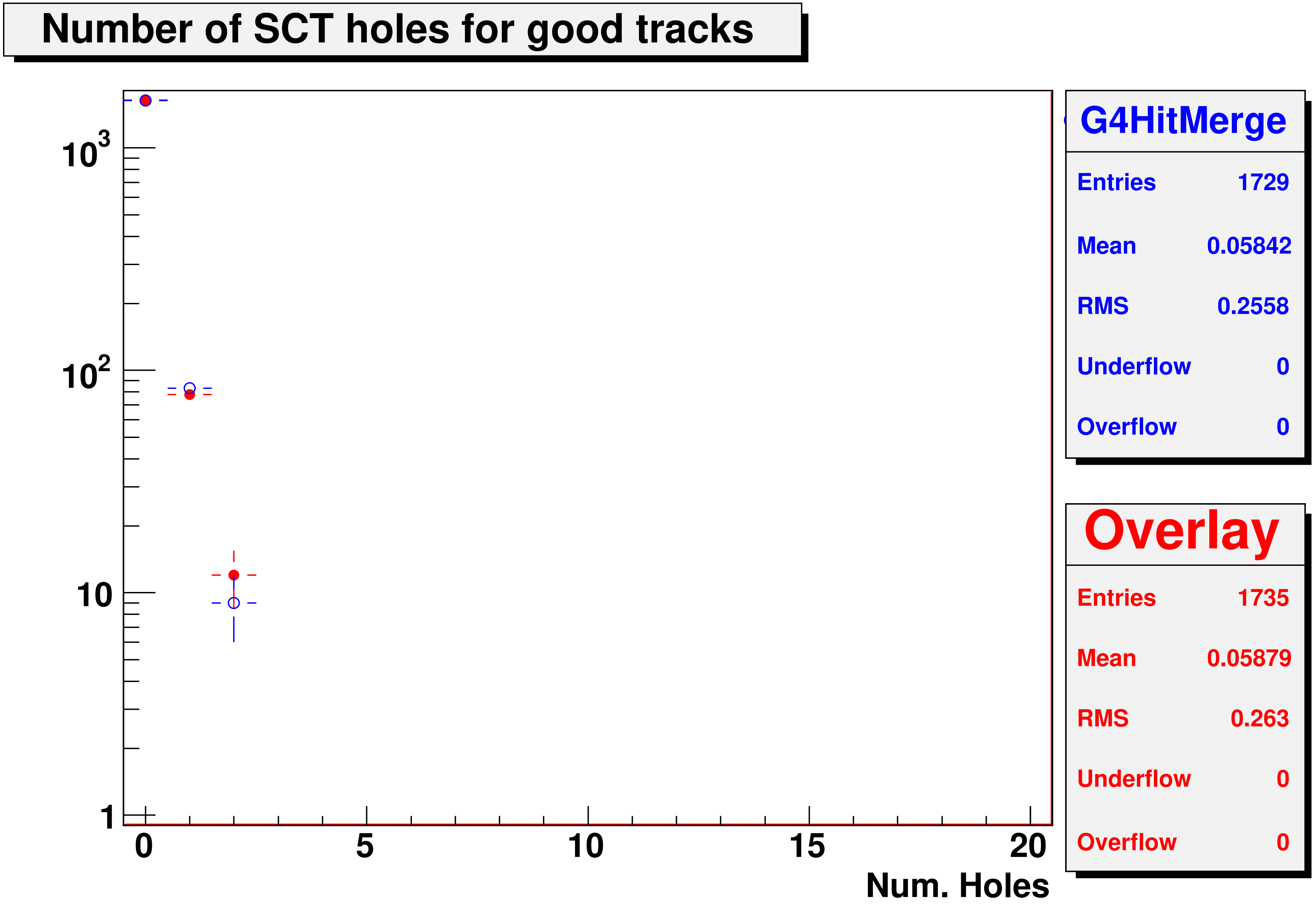


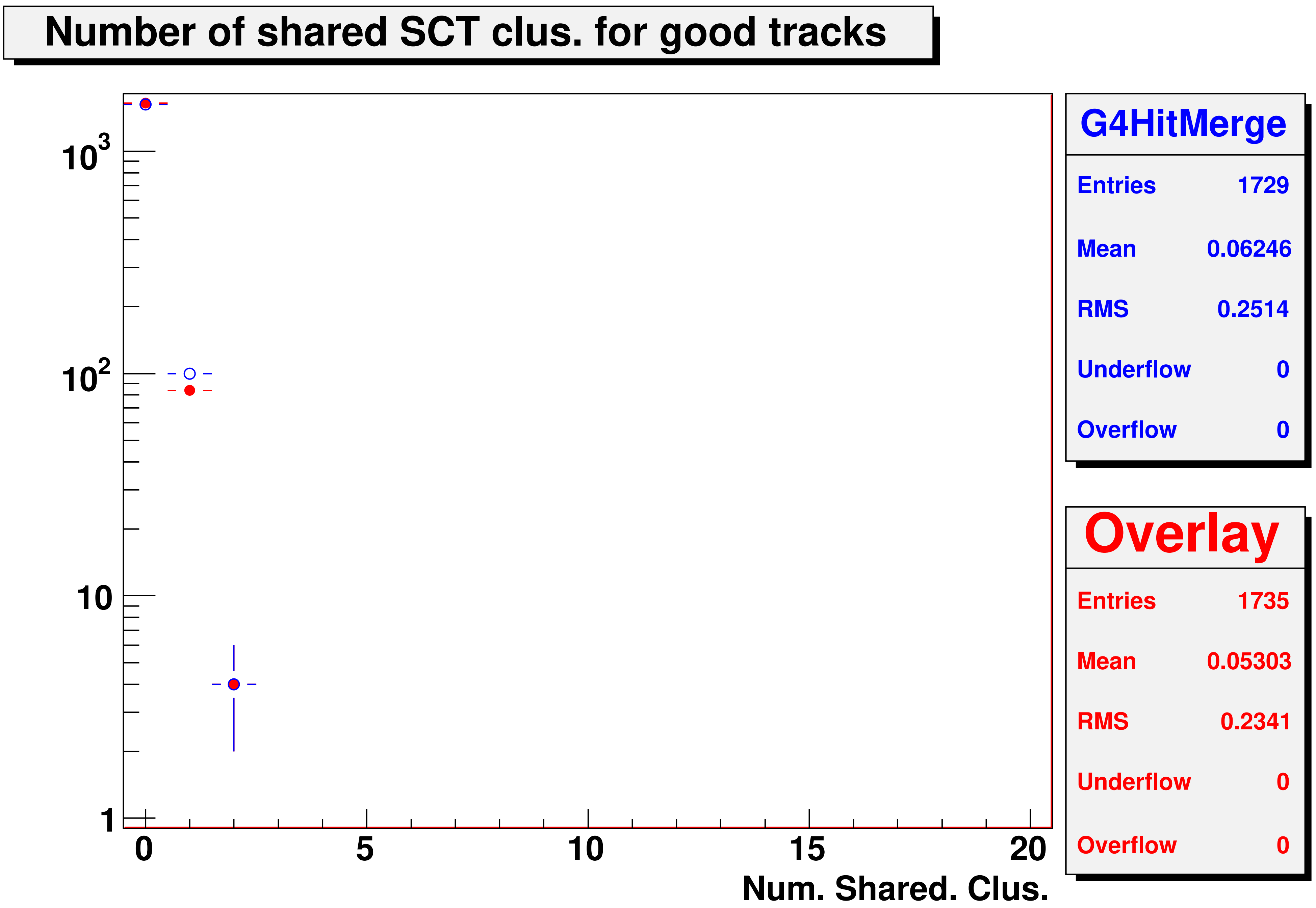
Number of contributed Pixel layers for good tracks
1400
1200
1000
800
600
400
200
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Layers
G4HitMerge
Entries 1729
Mean 2.956
RMS 0.5243
Underflow 0
Overflow 20
Overlay
Entries 1735
Mean 2.952
RMS 0.528
Underflow 0
Overflow 20


Number of shared Pixel clus. for good tracks
G4HitMerge
Entries 1729
Mean 1.925
RMS 1.055
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 1.919
RMS 1.054
Underflow 0
Overflow 0
10^2
10
1
0
1
2
3
4
5
6
7
8
9
Num. Shared. Clus.

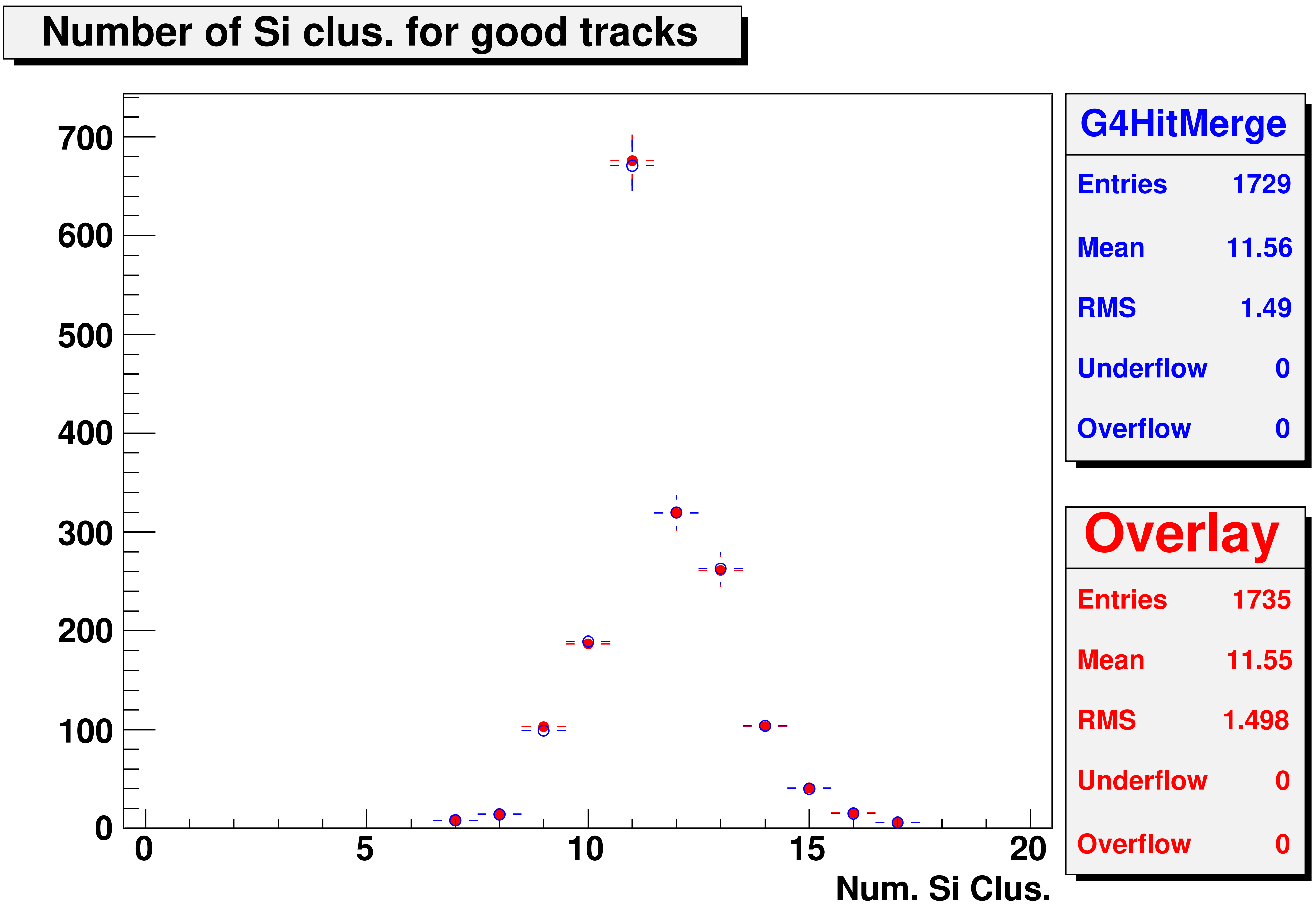


Number of SCT clus. for good tracks
1000
800
600
400
200
0
0
5
10
15
20
Num. Clus.
G4HitMerge
Entries 1729
Mean 8.384
RMS 1.249
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 8.38
RMS 1.242
Underflow 0
Overflow 0

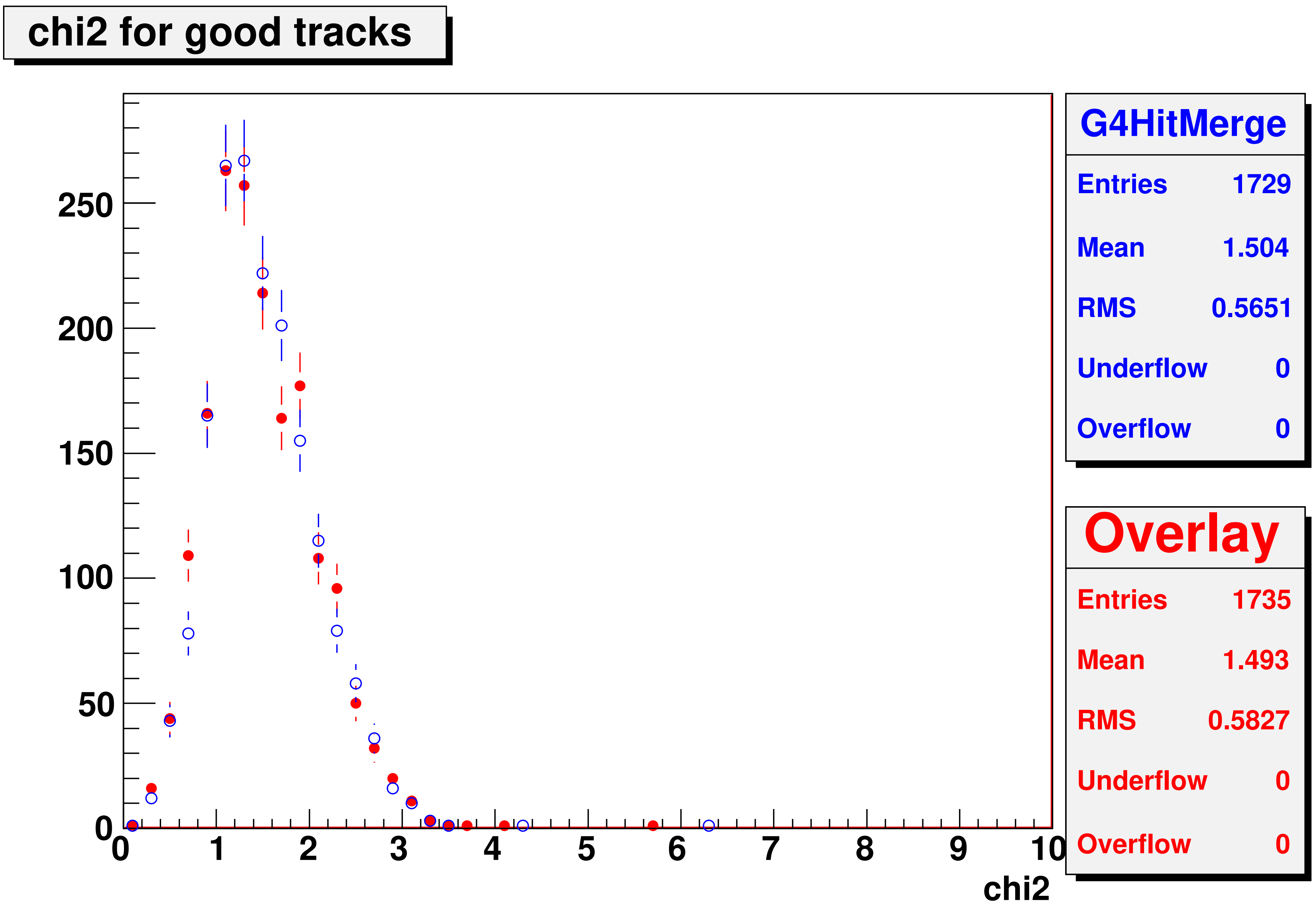

Number of SCT holes for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Holes
G4HitMerge
Entries 1729
Mean 0.05842
RMS 0.2558
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 0.05879
RMS 0.263
Underflow 0
Overflow 0



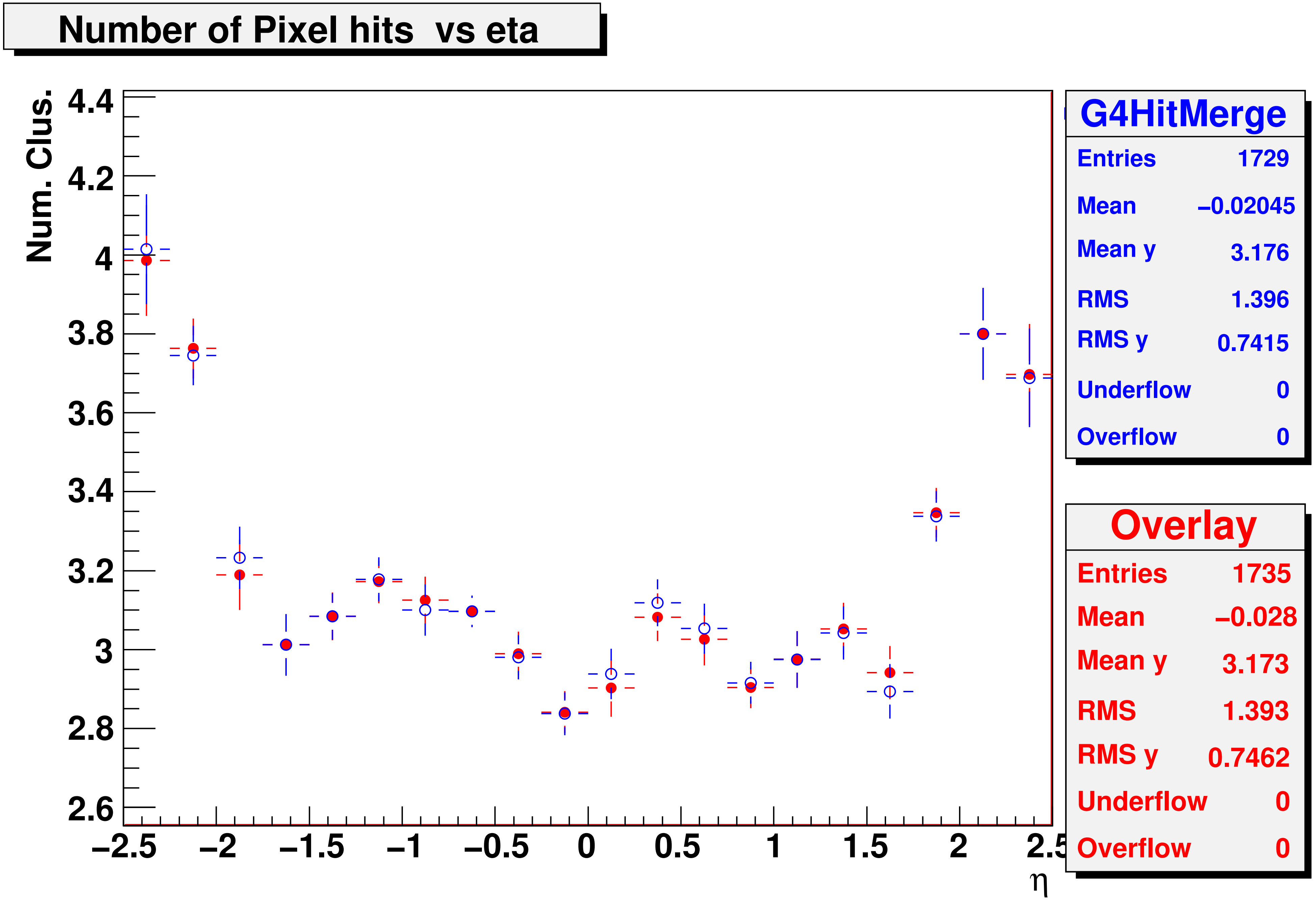
Number of shared SCT clus. for good tracks
G4HitMerge
Entries 1729
Mean 0.06246
RMS 0.2514
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 0.05303
RMS 0.2341
Underflow 0
Overflow 0
Num. Shared. Clus.



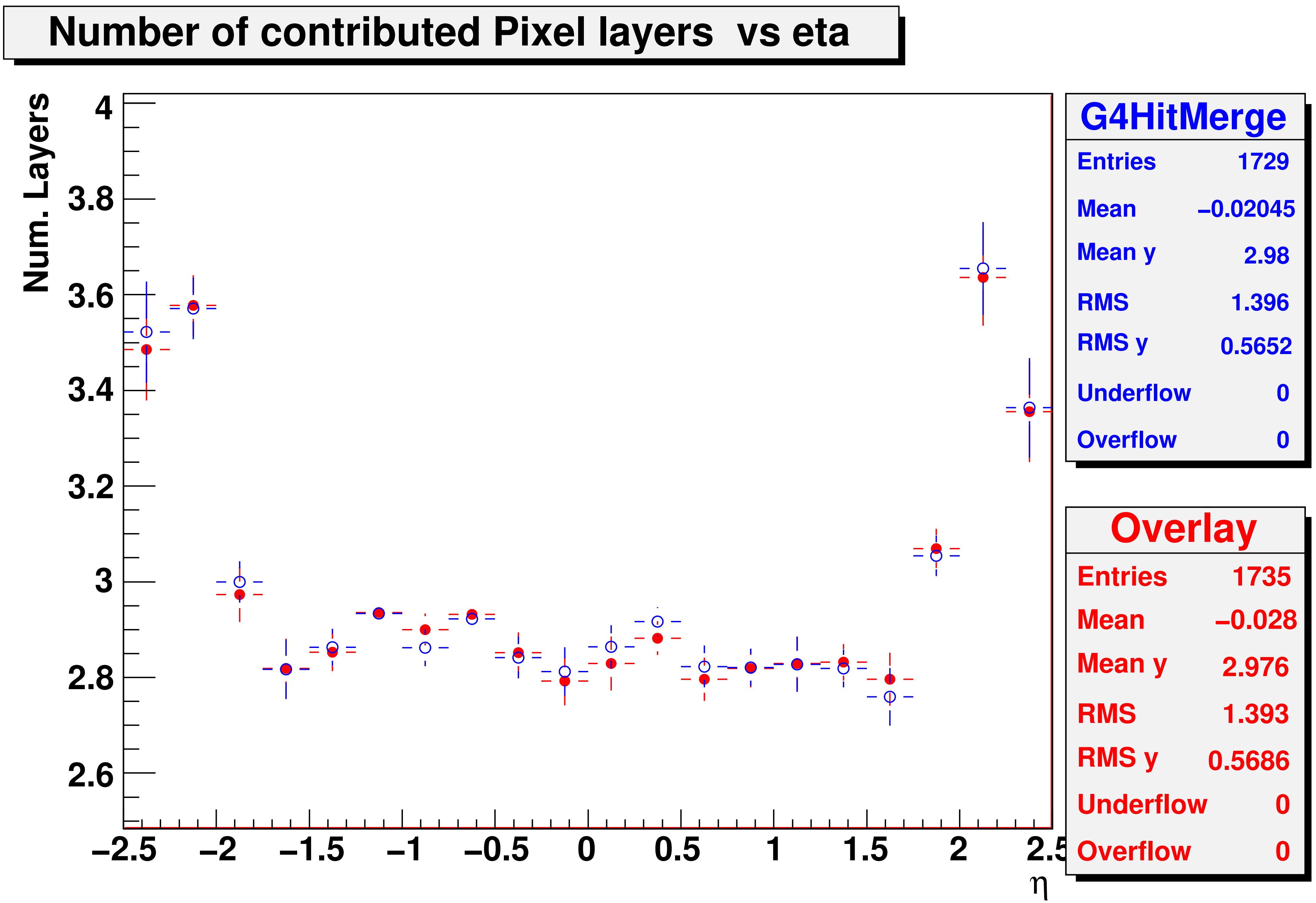
Number of Si clus. for good tracks
700
600
500
400
300
200
100
0
0
5
10
15
20
Num. Si Clus.
G4HitMerge
Entries 1729
Mean 11.56
RMS 1.49
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 11.55
RMS 1.498
Underflow 0
Overflow 0



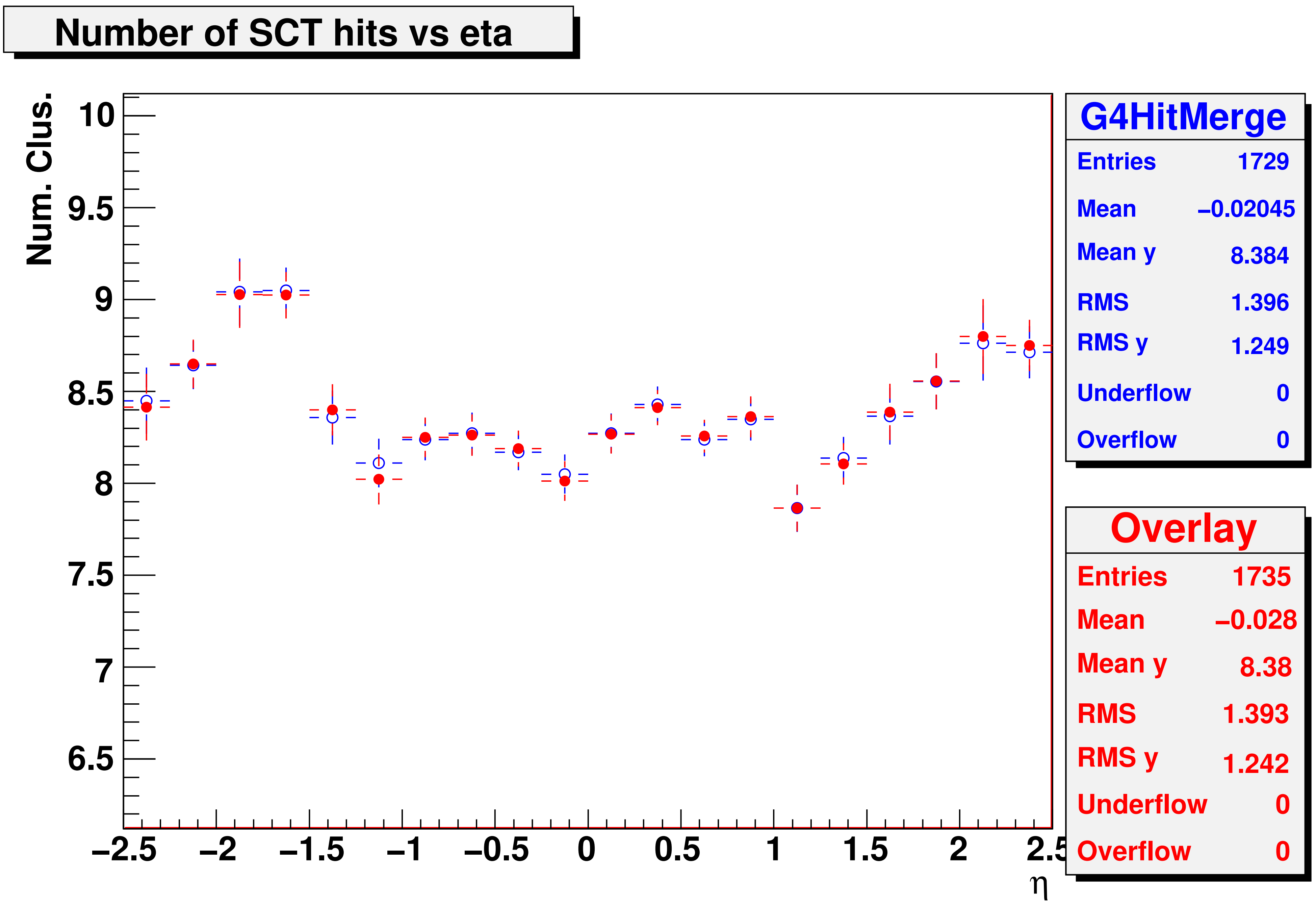
chi2 for good tracks
250
200
150
100
50
0
0
1
2
3
4
5
6
7
8
9
10
chi2
G4HitMerge
Entries 1729
Mean 1.504
RMS 0.5651
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean 1.493
RMS 0.5827
Underflow 0
Overflow 0

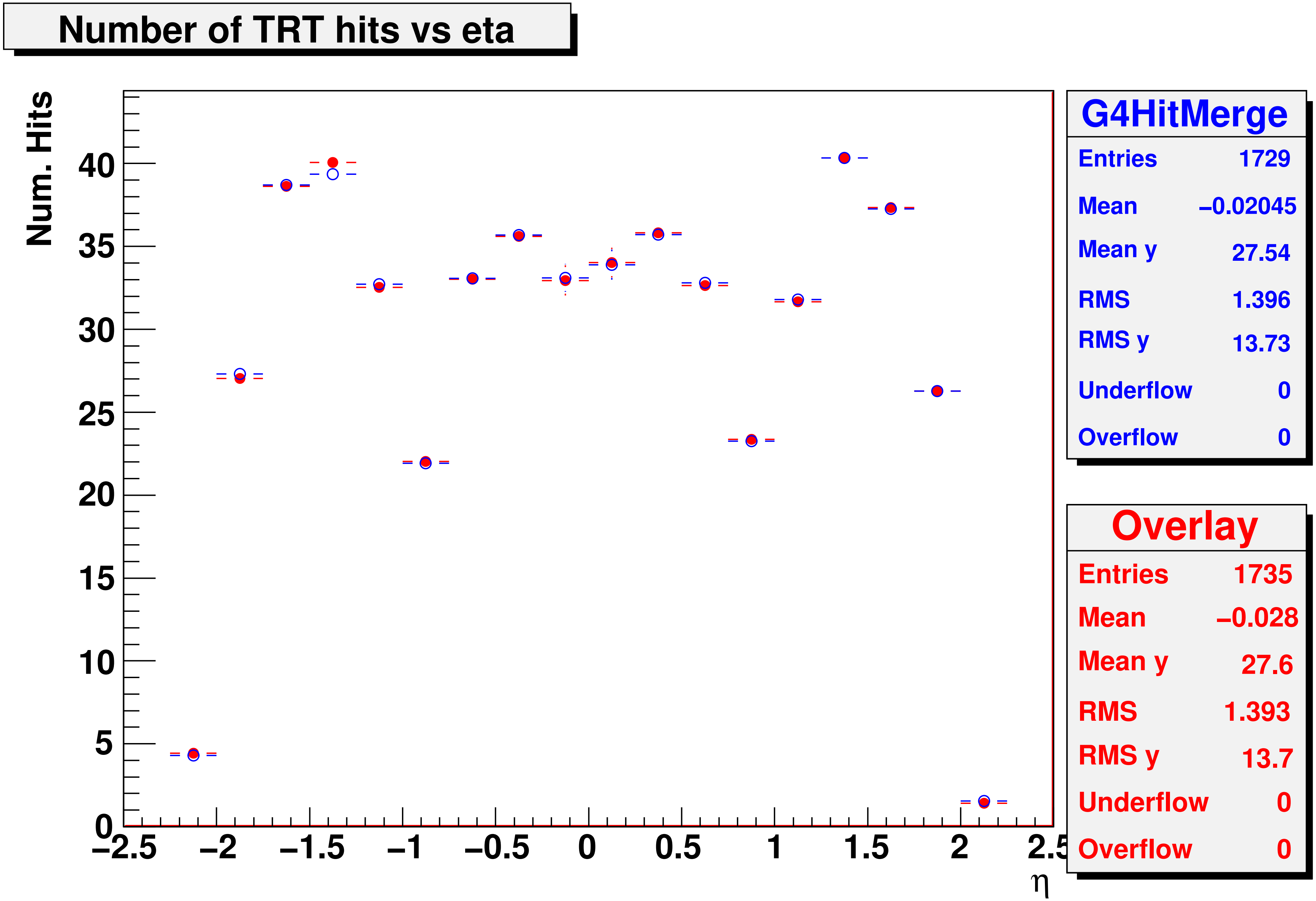


Number of Pixel hits vs eta
Num. Clus.
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1729
Mean −0.02045
Mean y 3.176
RMS 1.396
RMS y 0.7415
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean −0.028
Mean y 3.173
RMS 1.393
RMS y 0.7462
Underflow 0
Overflow 0

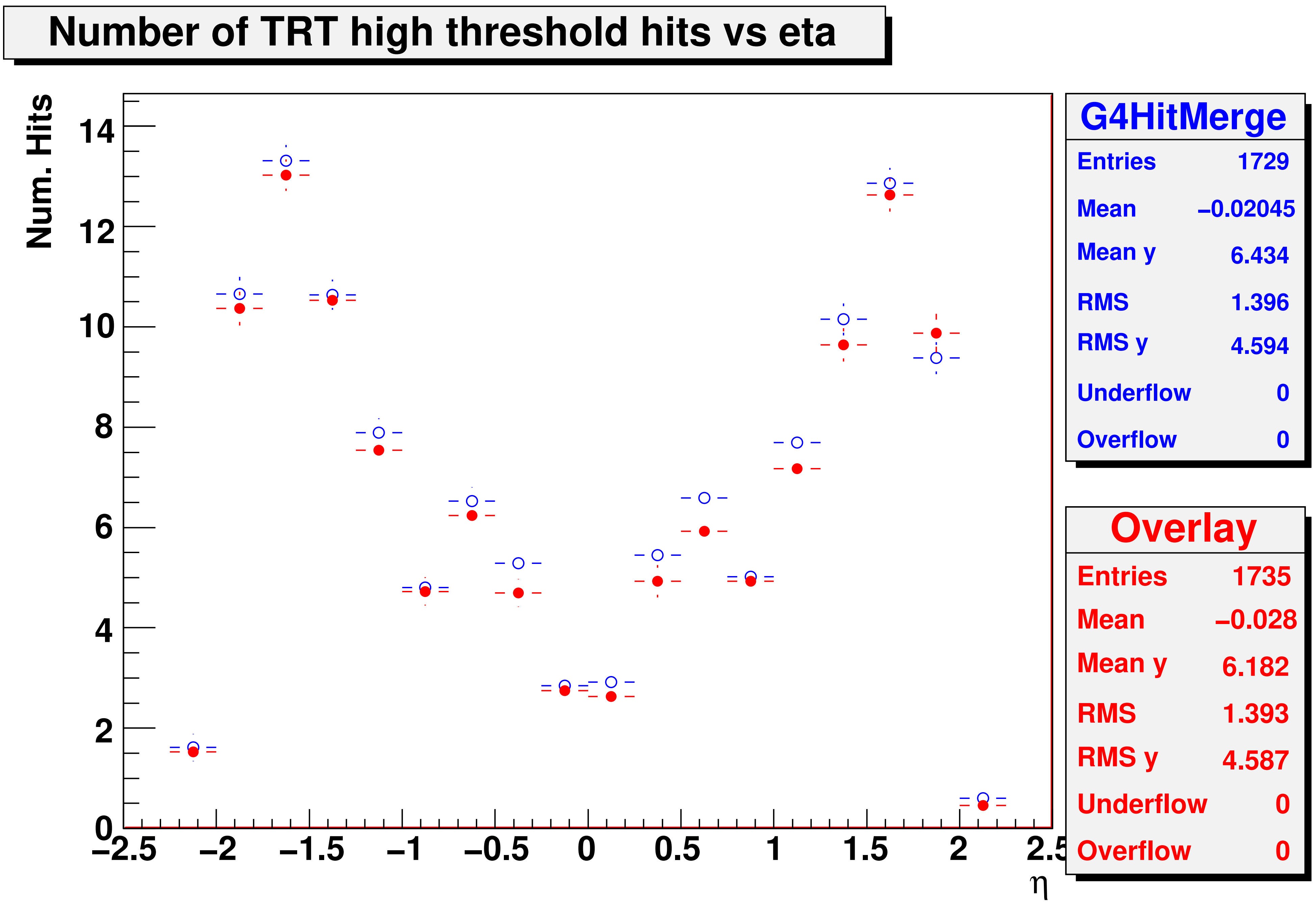


Number of contributed Pixel layers vs eta
Num. Layers
4
3.8
3.6
3.4
3.2
3
2.8
2.6
–2.5
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1729
Mean –0.02045
Mean y 2.98
RMS 1.396
RMS y 0.5652
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean –0.028
Mean y 2.976
RMS 1.393
RMS y 0.5686
Underflow 0
Overflow 0


Number of SCT hits vs eta
Num. Clus.
10
9.5
9
8.5
8
7.5
7
6.5
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1729
Mean −0.02045
Mean y 8.384
RMS 1.396
RMS y 1.249
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean −0.028
Mean y 8.38
RMS 1.393
RMS y 1.242
Underflow 0
Overflow 0



Number of TRT hits vs eta
Num. Hits
η
G4HitMerge
Entries 1729
Mean −0.02045
Mean y 27.54
RMS 1.396
RMS y 13.73
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean −0.028
Mean y 27.6
RMS 1.393
RMS y 13.7
Underflow 0
Overflow 0


Number of TRT high threshold hits vs eta
Num. Hits
14
12
10
8
6
4
2
0
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1729
Mean −0.02045
Mean y 6.434
RMS 1.396
RMS y 4.594
Underflow 0
Overflow 0
Overlay
Entries 1735
Mean −0.028
Mean y 6.182
RMS 1.393
RMS y 4.587
Underflow 0
Overflow 0