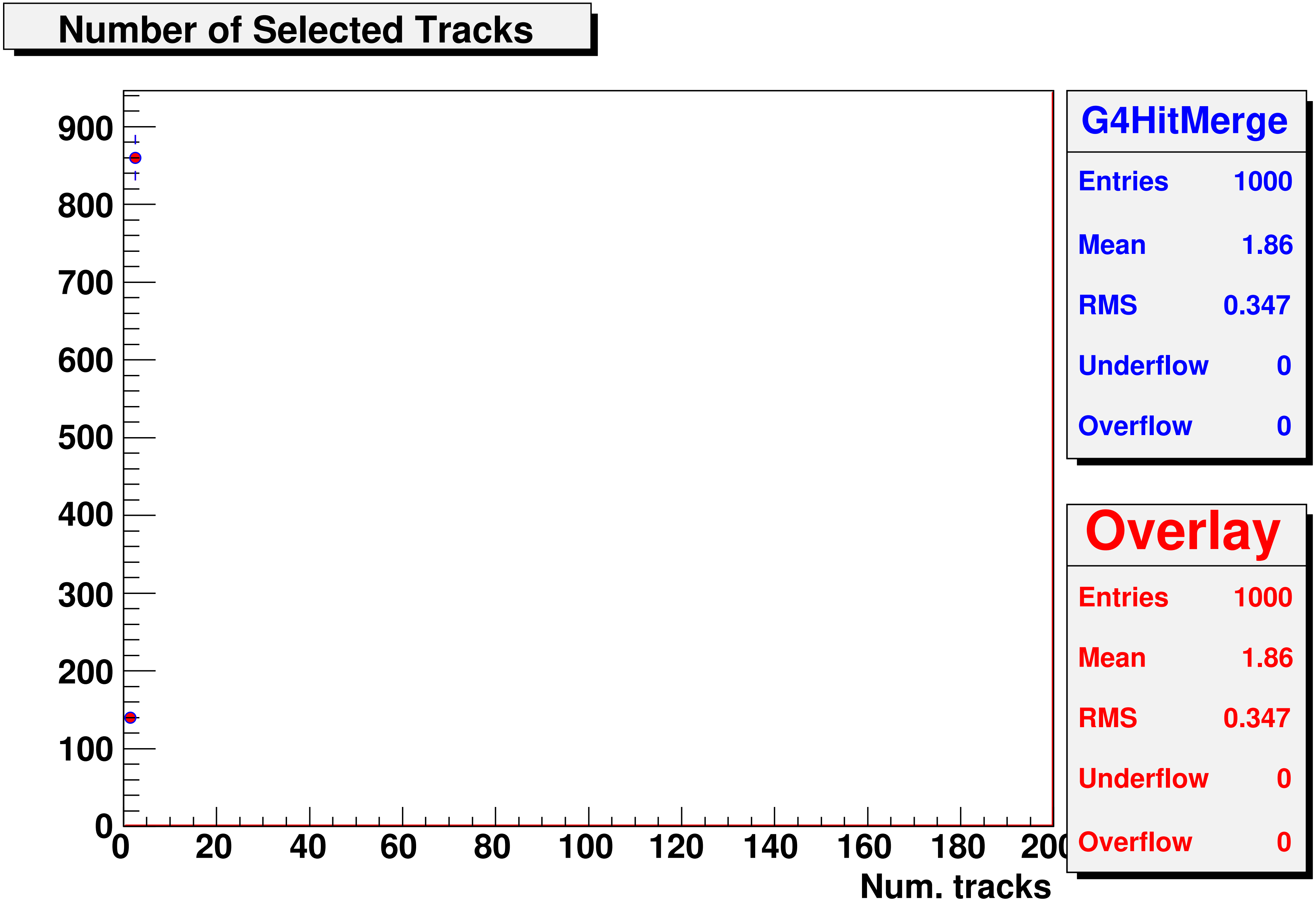
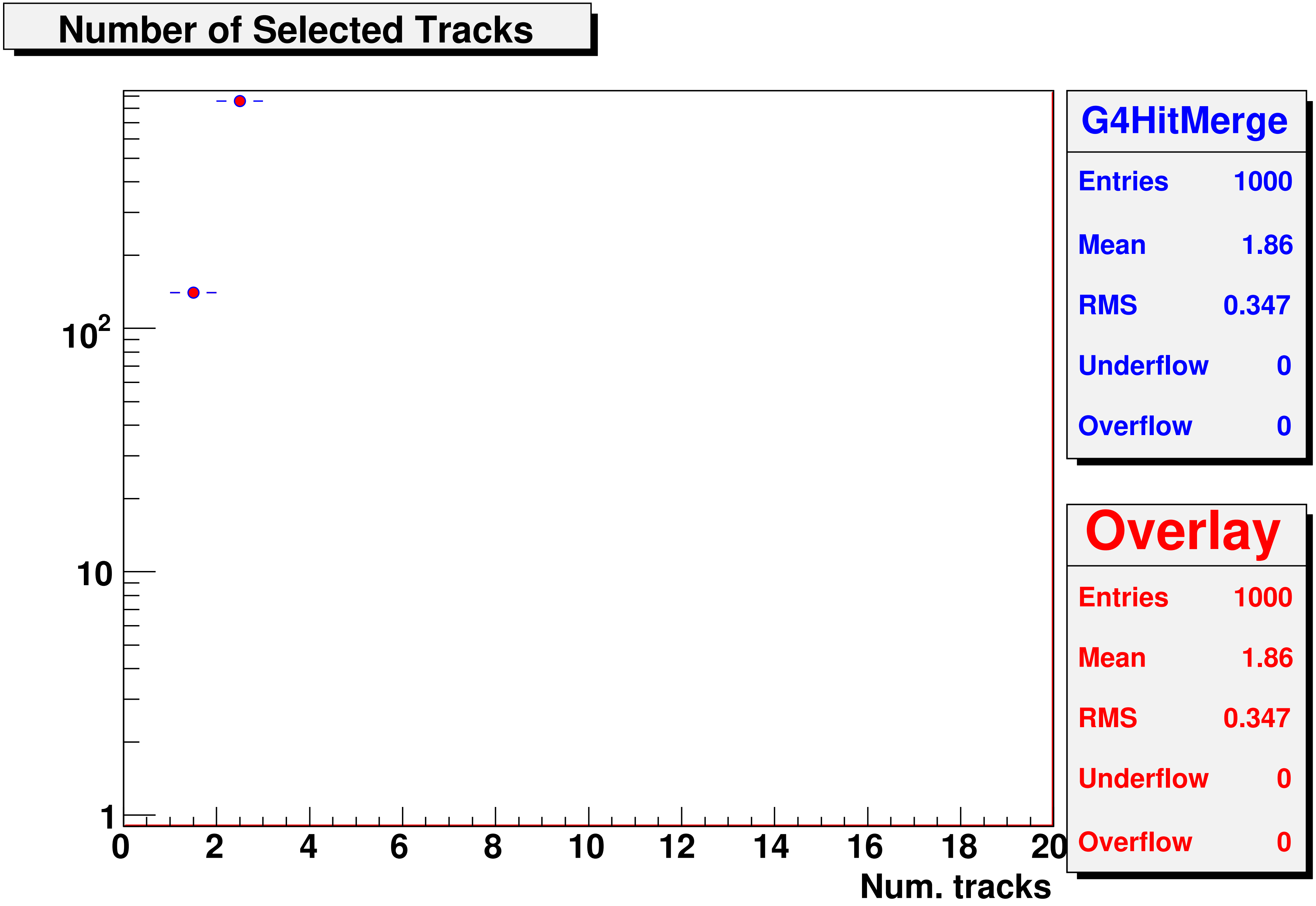
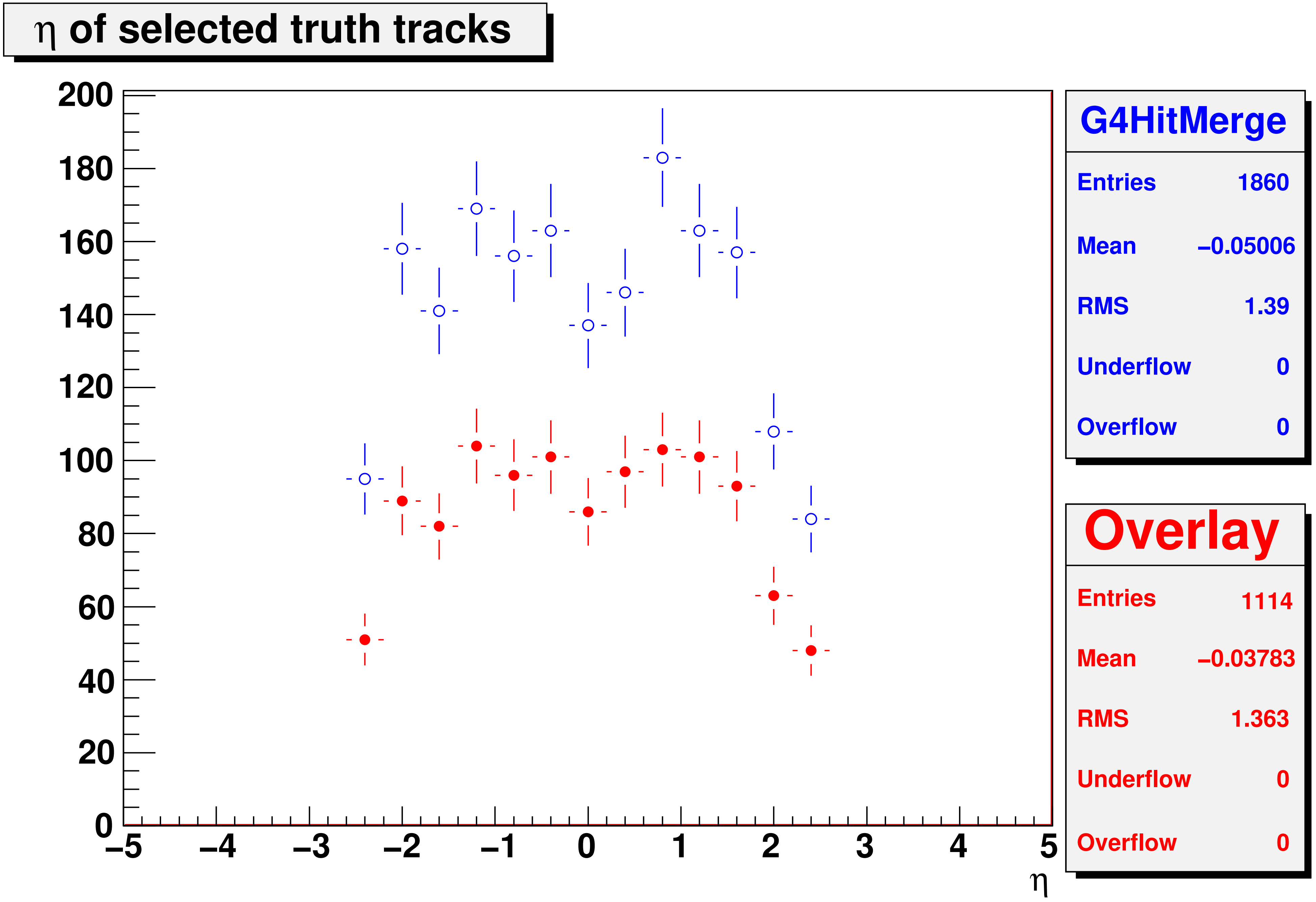
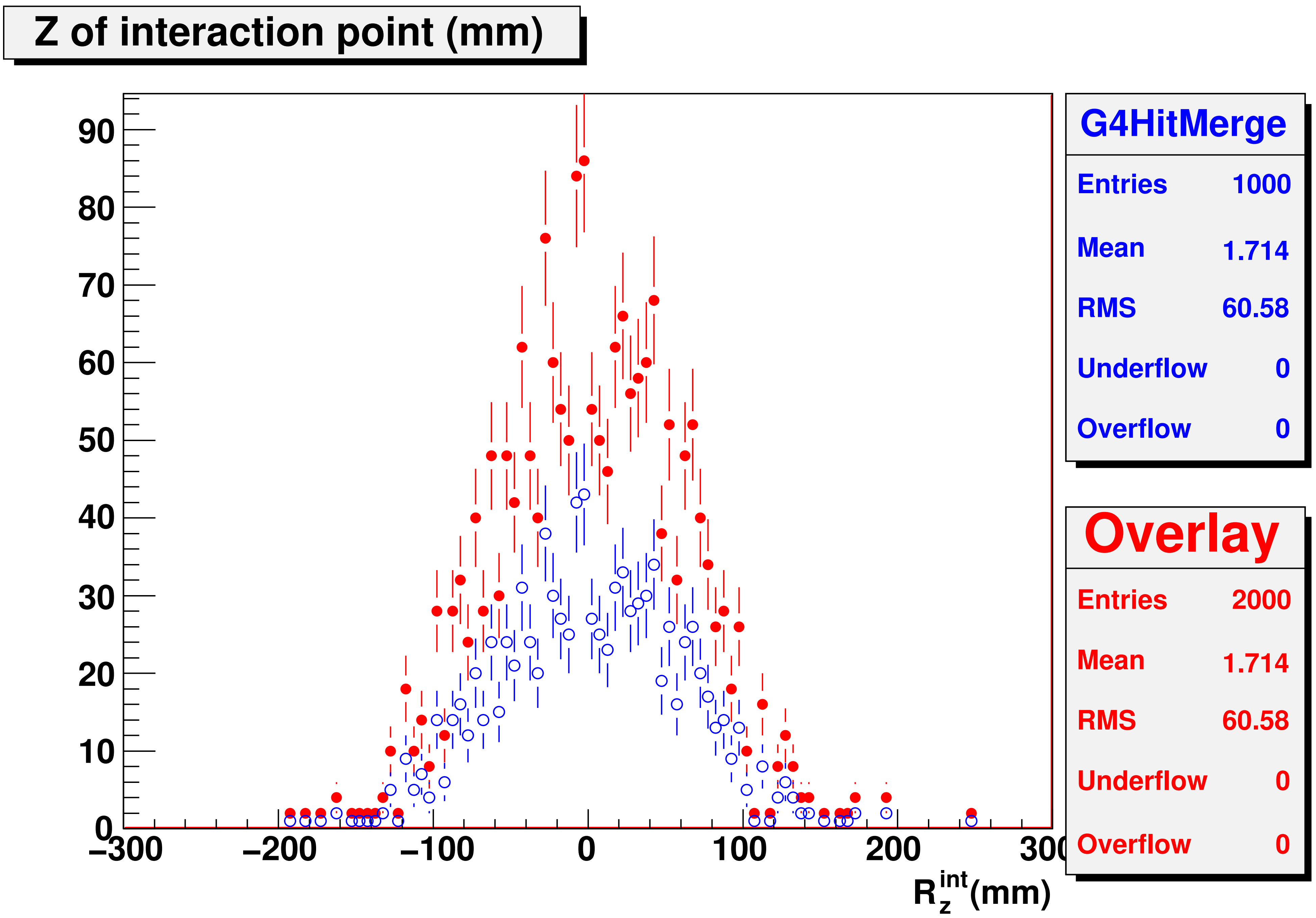

Number of Selected Tracks
900
800
700
600
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
180
200
Num. tracks
G4HitMerge
Entries 1000
Mean 1.86
RMS 0.347
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.86
RMS 0.347
Underflow 0
Overflow 0

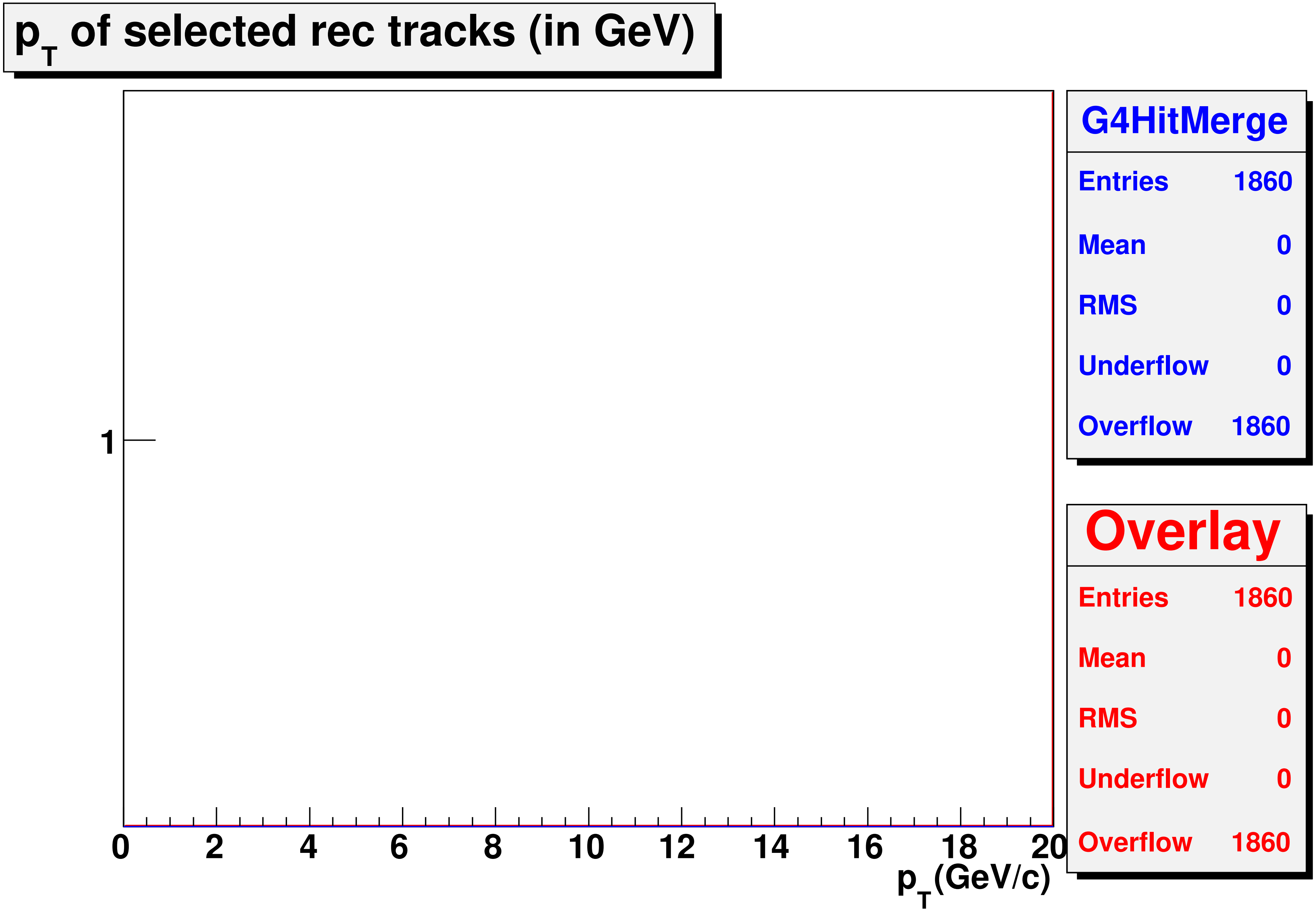


Number of Selected Tracks
G4HitMerge
Entries 1000
Mean 1.86
RMS 0.347
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.86
RMS 0.347
Underflow 0
Overflow 0
10^2
10
1
0
2
4
6
8
10
12
14
16
18
20
Num. tracks

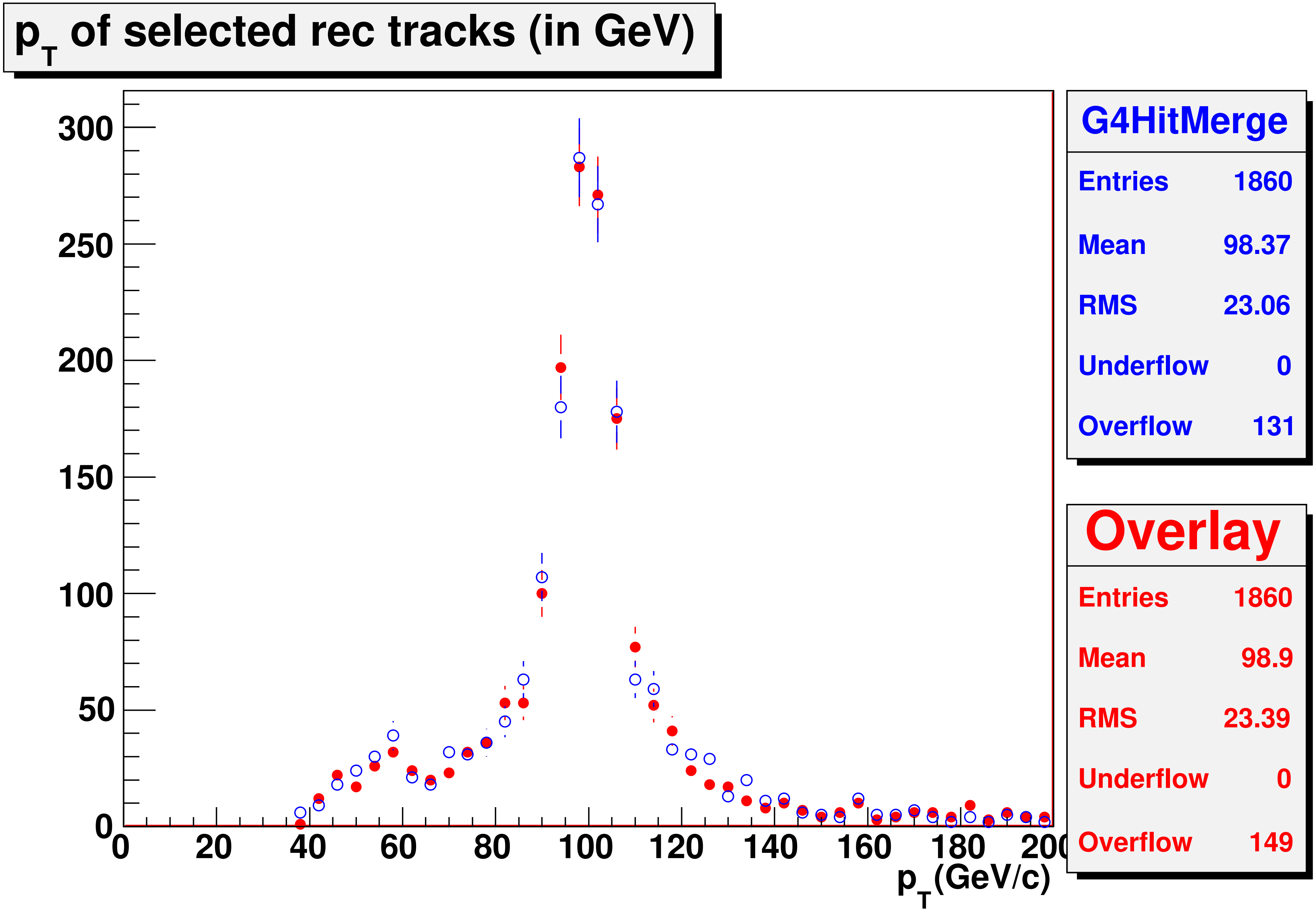

η of selected truth tracks
G4HitMerge
Entries 1860
Mean −0.05006
RMS 1.39
Underflow 0
Overflow 0
Overlay
Entries 1114
Mean −0.03783
RMS 1.363
Underflow 0
Overflow 0
200
180
160
140
120
100
80
60
40
20
0
−5
−4
−3
−2
−1
0
1
2
3
4
5
η



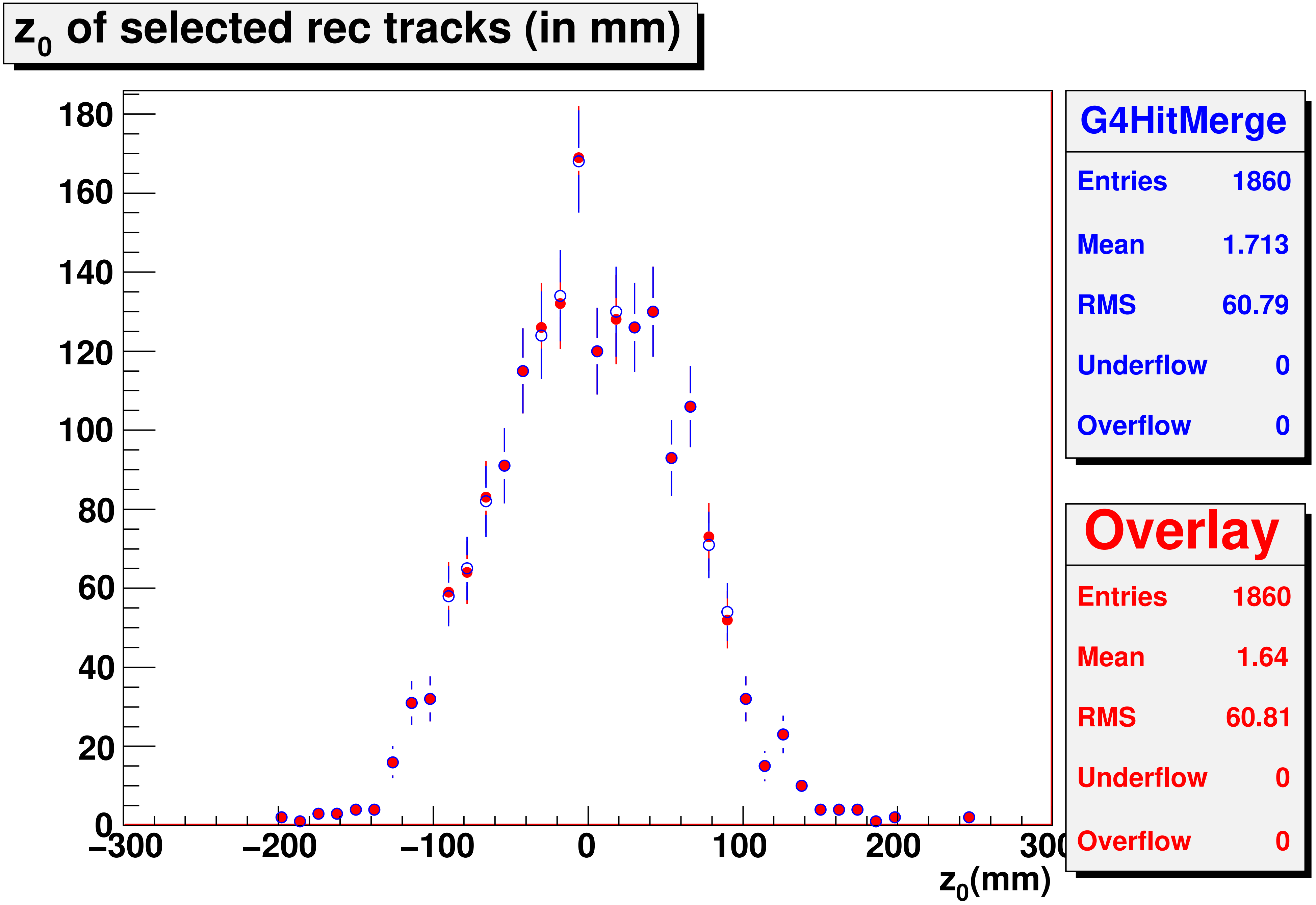
Z of interaction point (mm)
G4HitMerge
Entries 1000
Mean 1.714
RMS 60.58
Underflow 0
Overflow 0
Overlay
Entries 2000
Mean 1.714
RMS 60.58
Underflow 0
Overflow 0
R_z^{int}(mm)



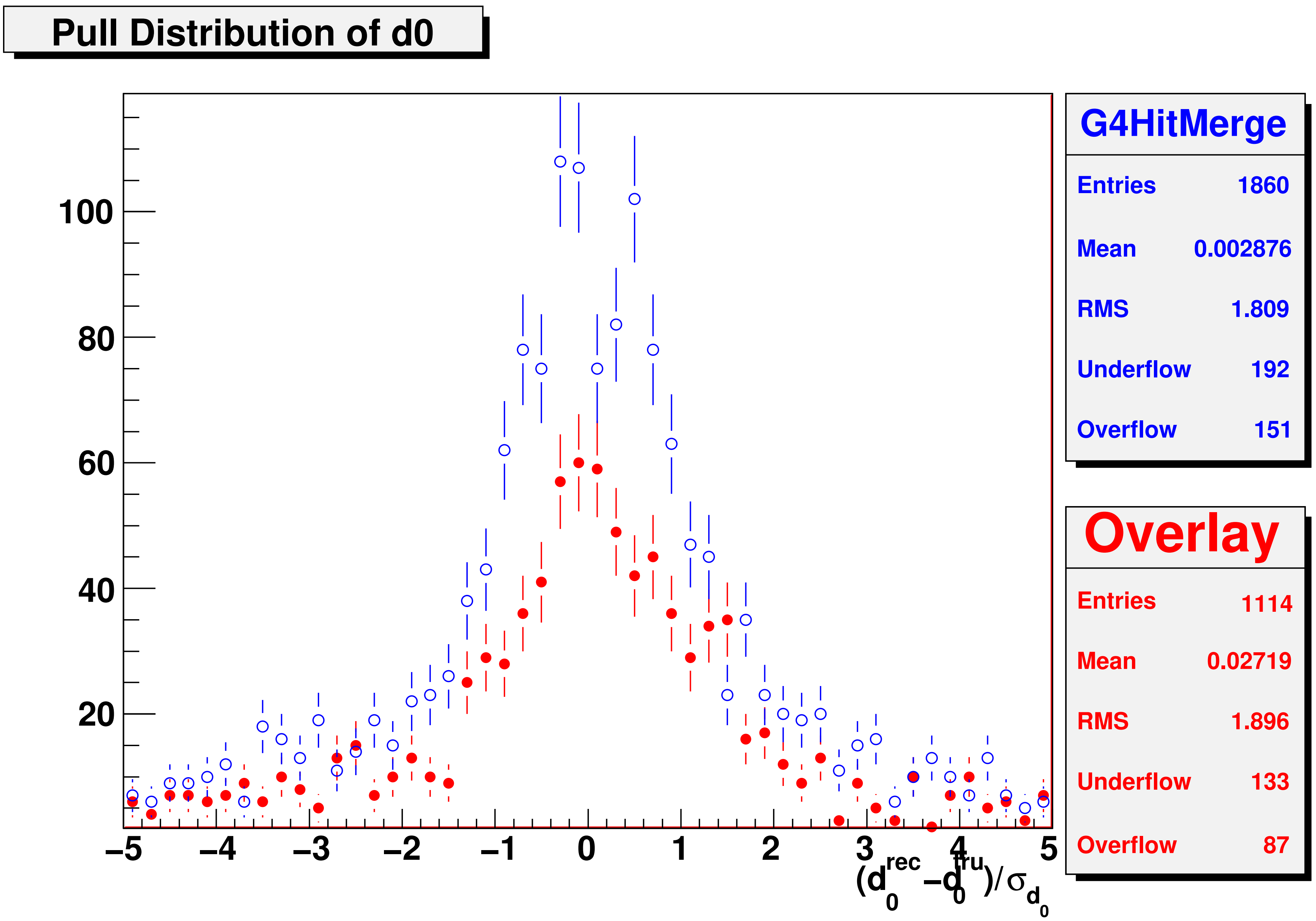
p_T of selected rec tracks (in GeV)
1
0
2
4
6
8
10
12
14
16
18
20
p_T(GeV/c)
G4HitMerge
Entries 1860
Mean 0
RMS 0
Underflow 0
Overflow 1860
Overlay
Entries 1860
Mean 0
RMS 0
Underflow 0
Overflow 1860



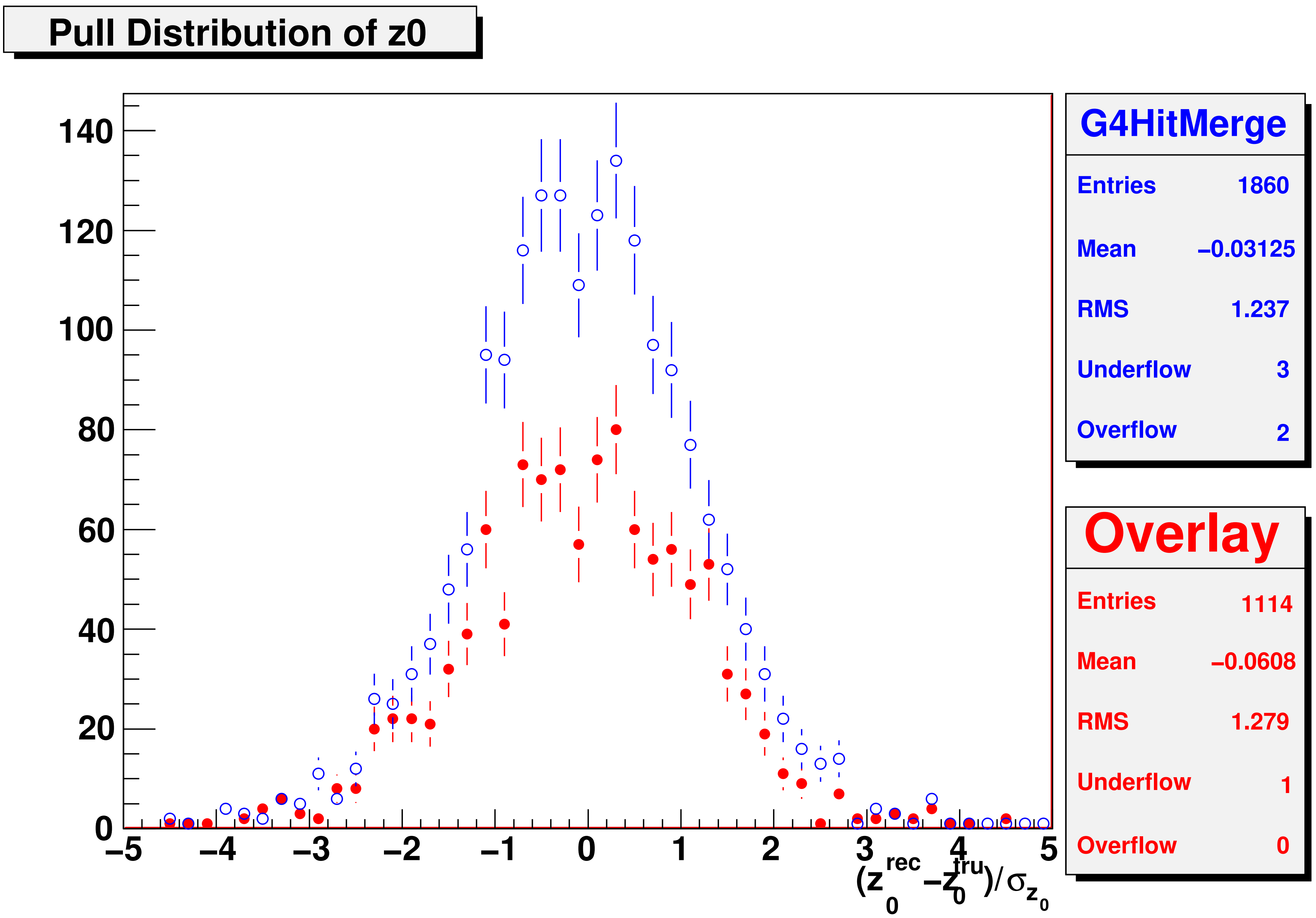
p_T of selected rec tracks (in GeV)
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
160
180
200
p_T(GeV/c)
G4HitMerge
Entries 1860
Mean 98.37
RMS 23.06
Underflow 0
Overflow 131
Overlay
Entries 1860
Mean 98.9
RMS 23.39
Underflow 0
Overflow 149



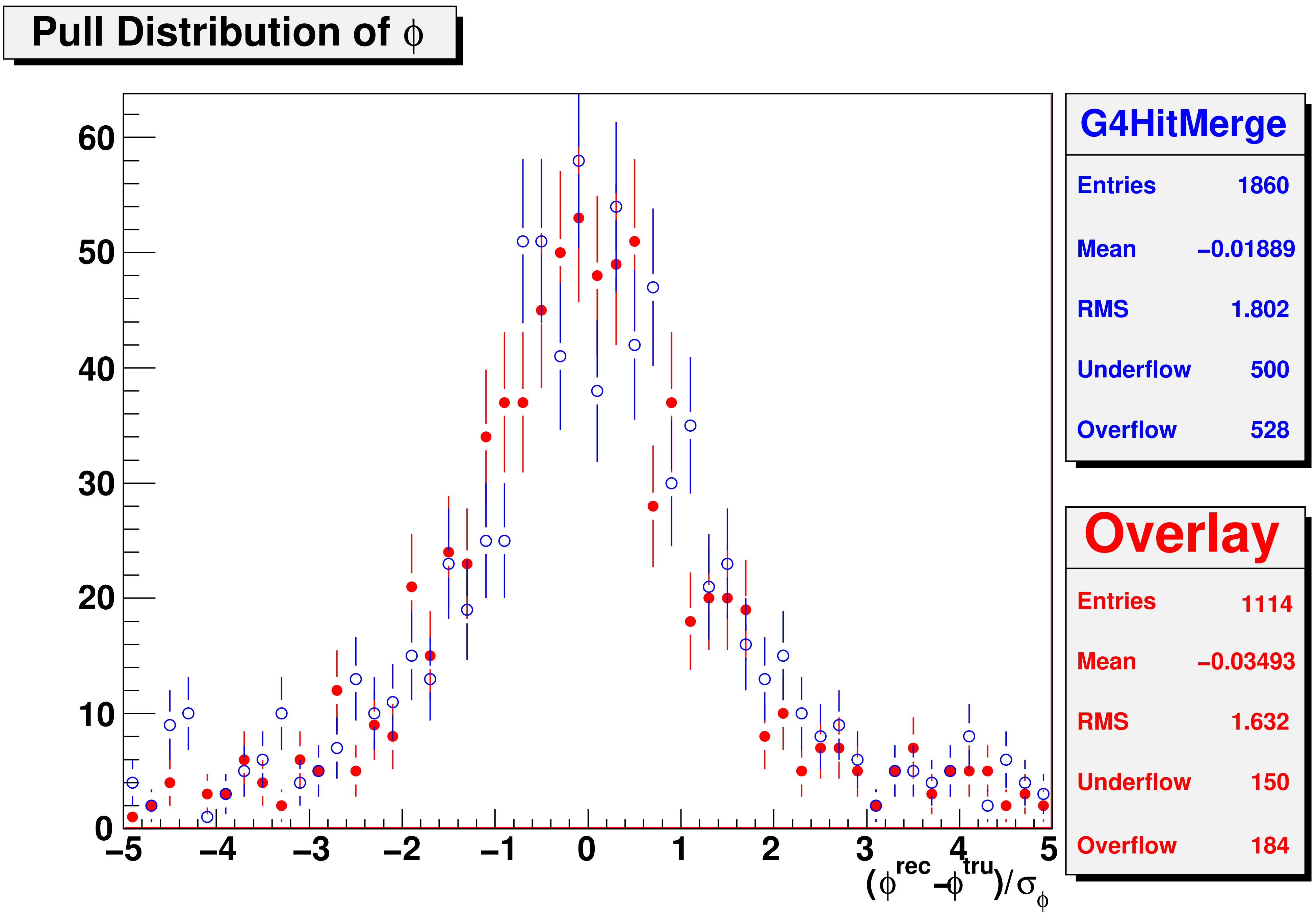
z0 of selected rec tracks (in mm)
G4HitMerge
Entries 1860
Mean 1.713
RMS 60.79
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 1.64
RMS 60.81
Underflow 0
Overflow 0
0
20
40
60
80
100
120
140
160
180
−300
−200
−100
0
100
200
300
z0(mm)



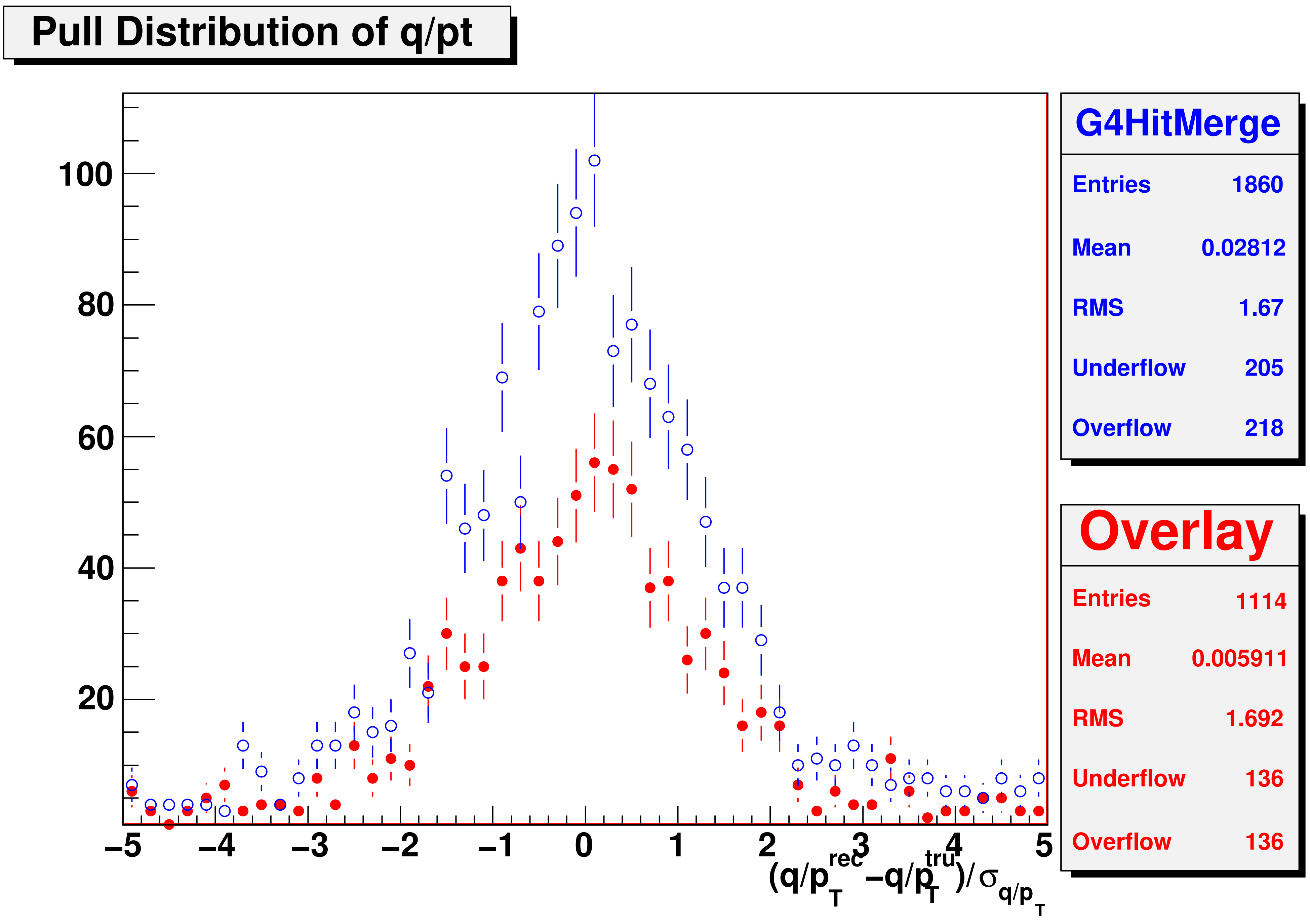
Pull Distribution of d0
G4HitMerge
Entries 1860
Mean 0.002876
RMS 1.809
Underflow 192
Overflow 151
Overlay
Entries 1114
Mean 0.02719
RMS 1.896
Underflow 133
Overflow 87
100
80
60
40
20
–5 –4 –3 –2 –1 0 1 2 3 4 5
$(d_0^{rec}-d_0^{tru})/\sigma_{d_0}$



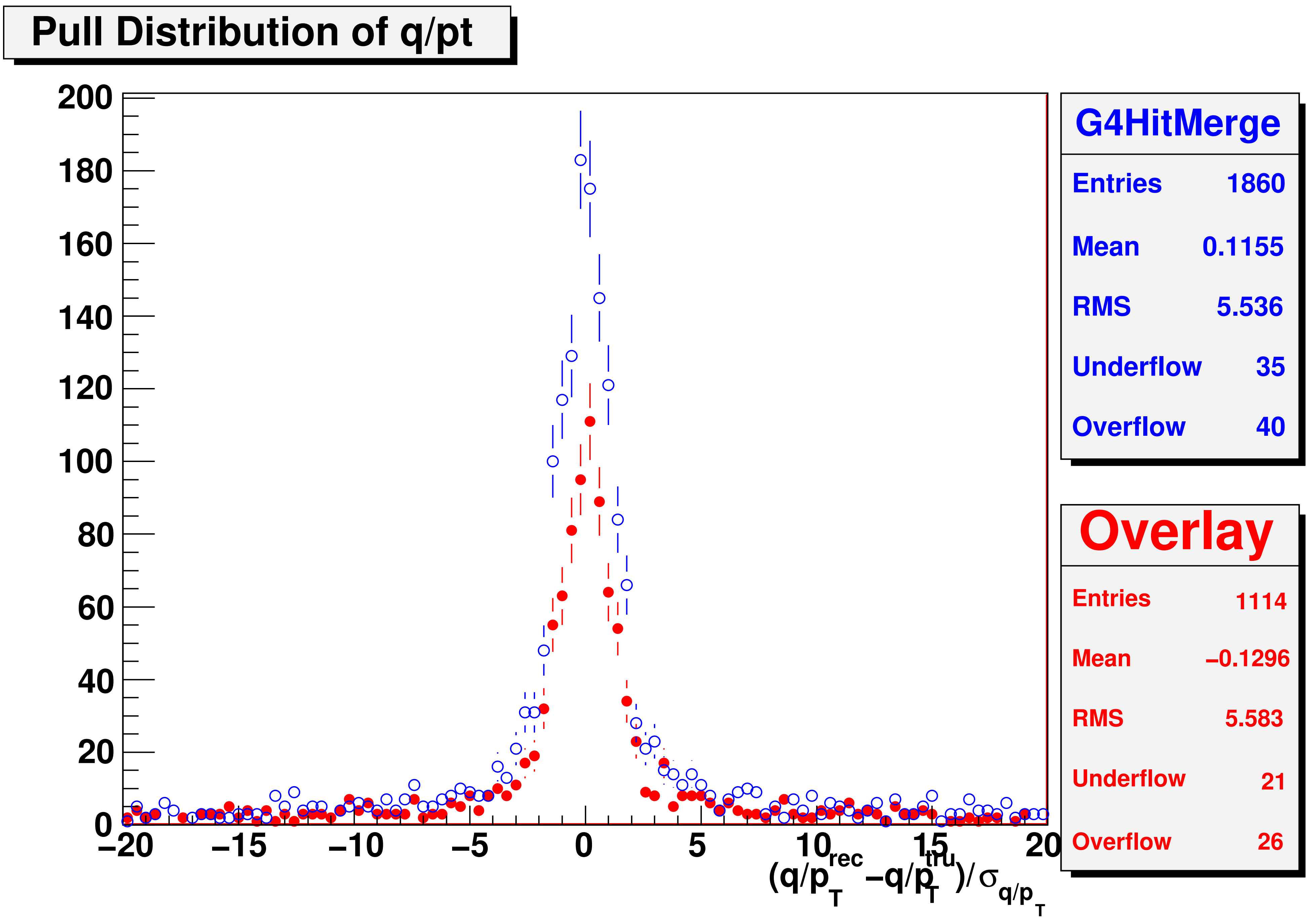
Pull Distribution of z0
G4HitMerge
Entries 1860
Mean −0.03125
RMS 1.237
Underflow 3
Overflow 2
Overlay
Entries 1114
Mean −0.0608
RMS 1.279
Underflow 1
Overflow 0
140
120
100
80
60
40
20
0
−5 −4 −3 −2 −1 0 1 2 3 4 5
$(z_0^{rec} - z_0^{tru})/\sigma_{z_0}$



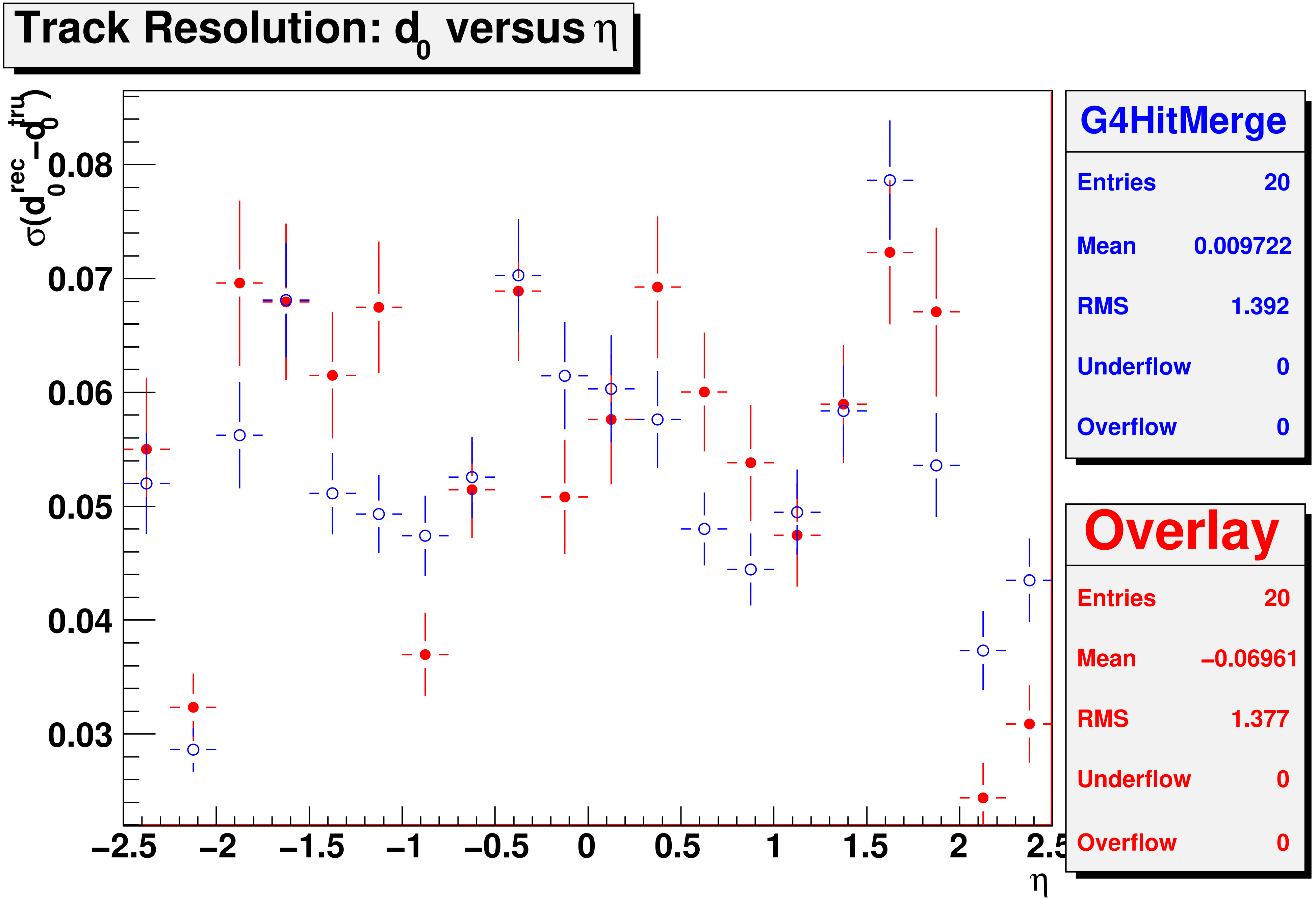
Pull Distribution of φ
G4HitMerge
Entries 1860
Mean −0.01889
RMS 1.802
Underflow 500
Overflow 528
Overlay
Entries 1114
Mean −0.03493
RMS 1.632
Underflow 150
Overflow 184
$(\phi^{rec}-\phi^{tru})/\sigma_\phi$



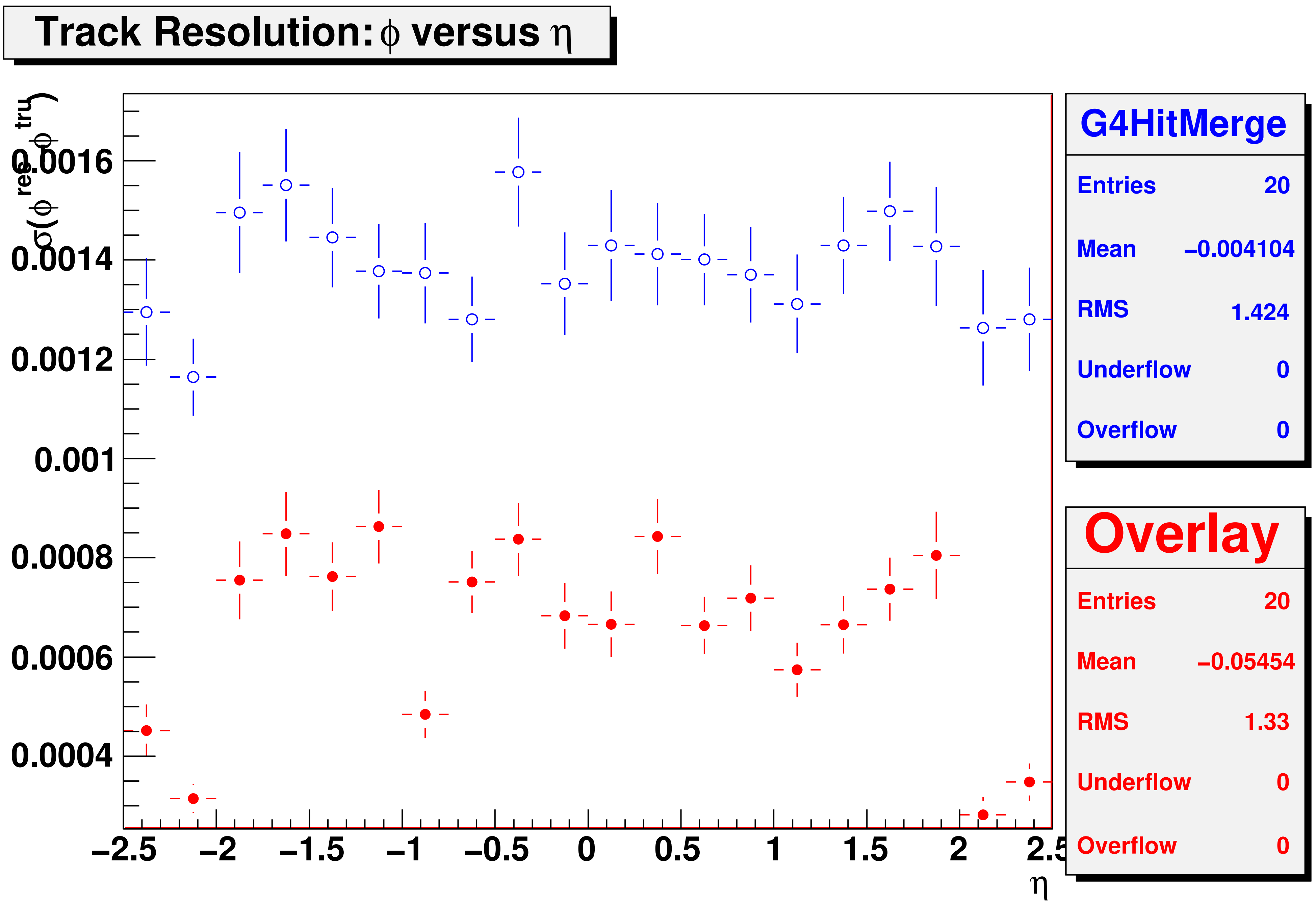
Pull Distribution of q/pt
G4HitMerge
Entries 1860
Mean 0.02812
RMS 1.67
Underflow 205
Overflow 218
Overlay
Entries 1114
Mean 0.005911
RMS 1.692
Underflow 136
Overflow 136
100
80
60
40
20
–5 –4 –3 –2 –1 0 1 2 3 4 5
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$

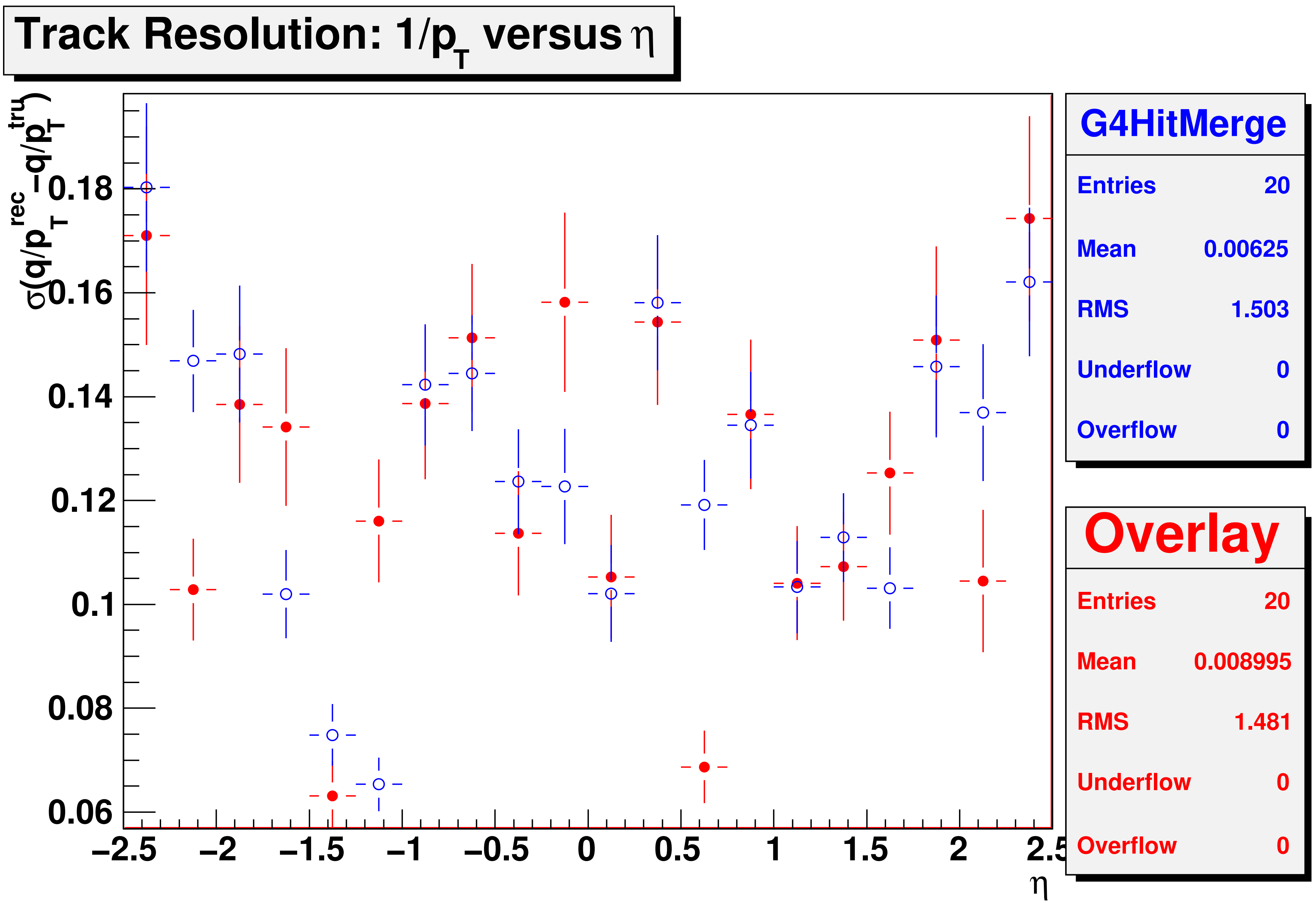


Pull Distribution of q/pt
200
180
160
140
120
100
80
60
40
20
0
−20
−15
−10
−5
0
5
10
15
20
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$
G4HitMerge
Entries 1860
Mean 0.1155
RMS 5.536
Underflow 35
Overflow 40
Overlay
Entries 1114
Mean −0.1296
RMS 5.583
Underflow 21
Overflow 26

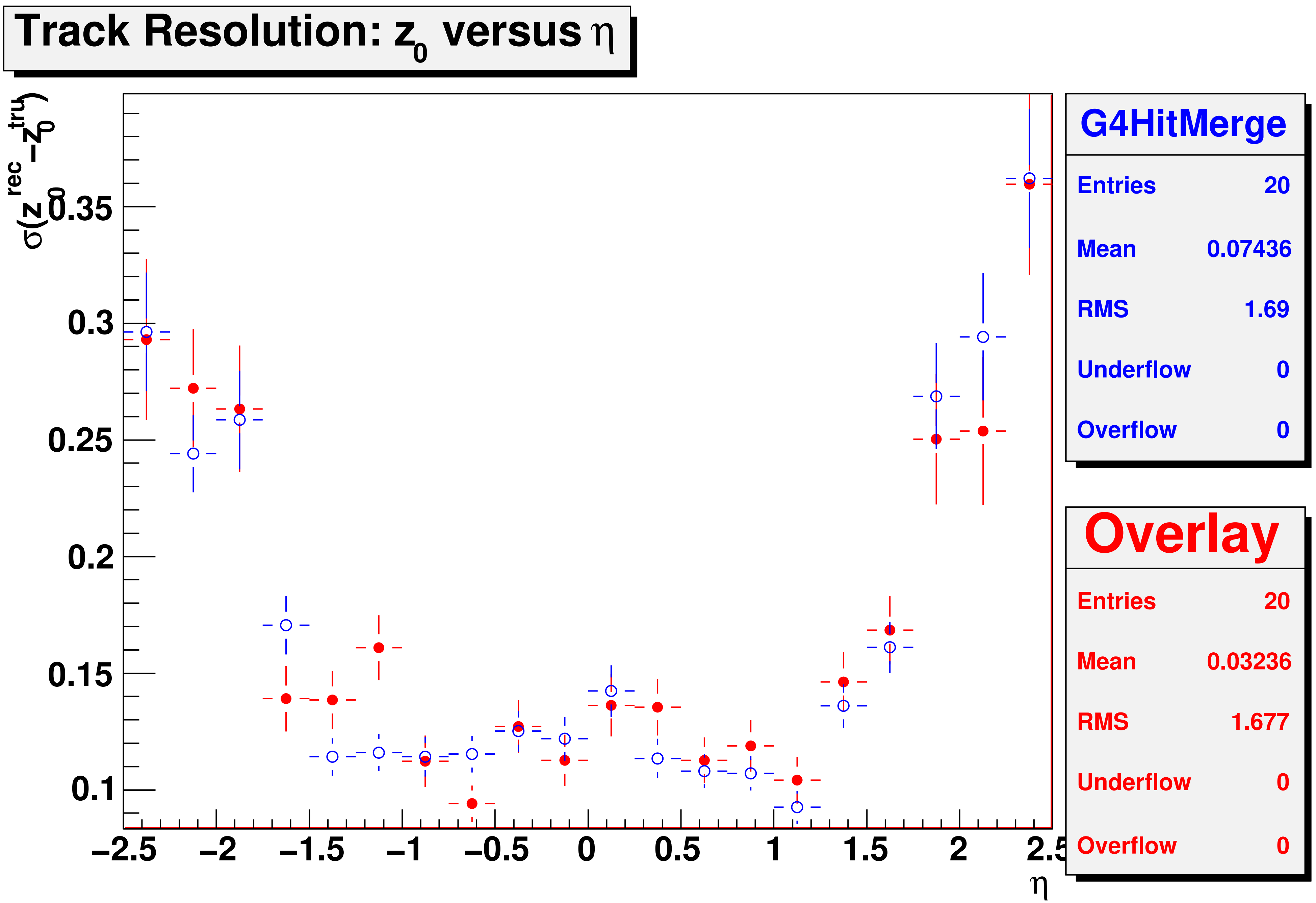


Track Resolution: d0 versus η
σ(d0rec−d0tru)
0.08
0.07
0.06
0.05
0.04
0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.009722
RMS 1.392
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.06961
RMS 1.377
Underflow 0
Overflow 0

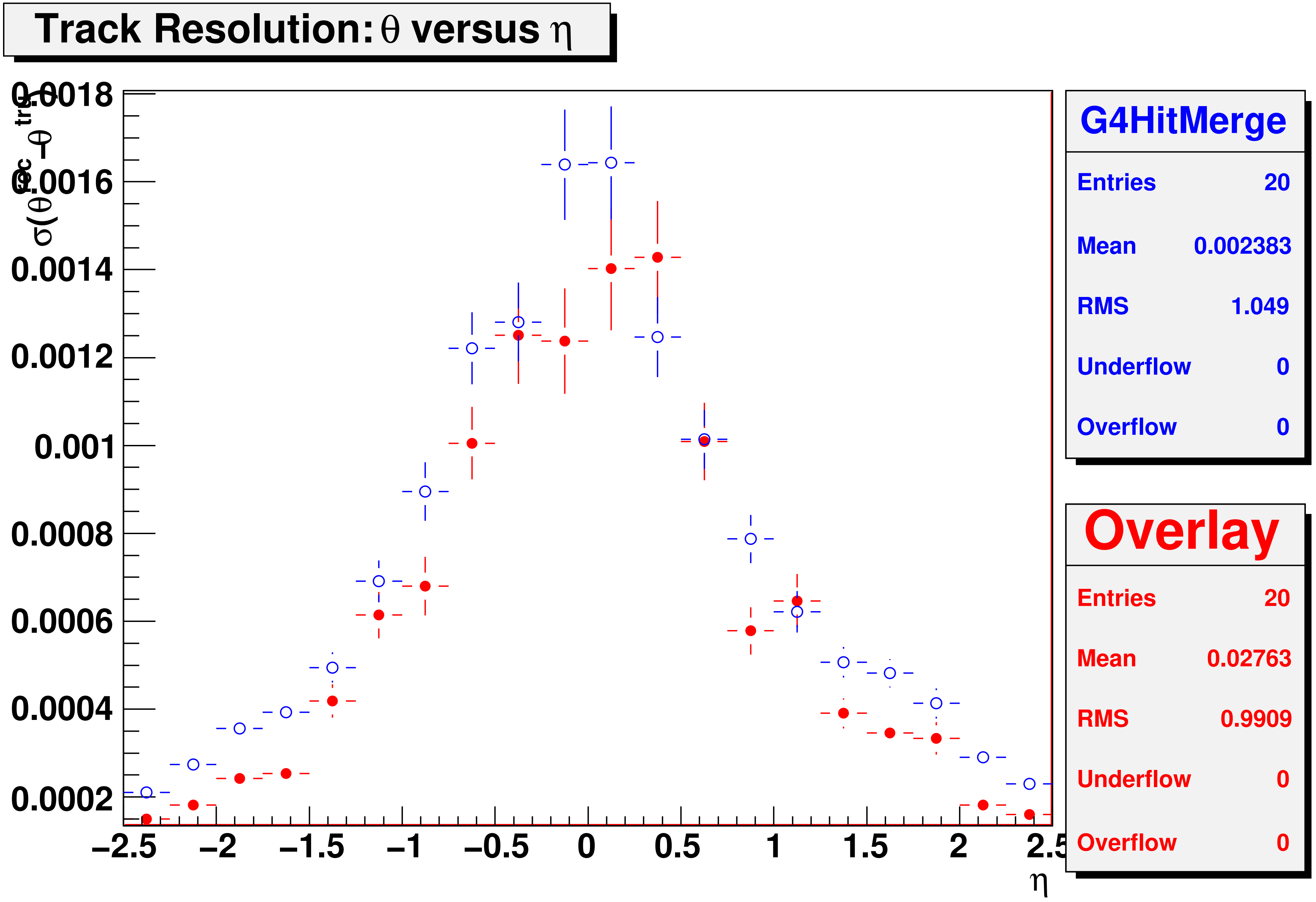

Track Resolution: ϕ versus η
σ(ϕ^res − ϕ^tru)
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.004104
RMS 1.424
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.05454
RMS 1.33
Underflow 0
Overflow 0



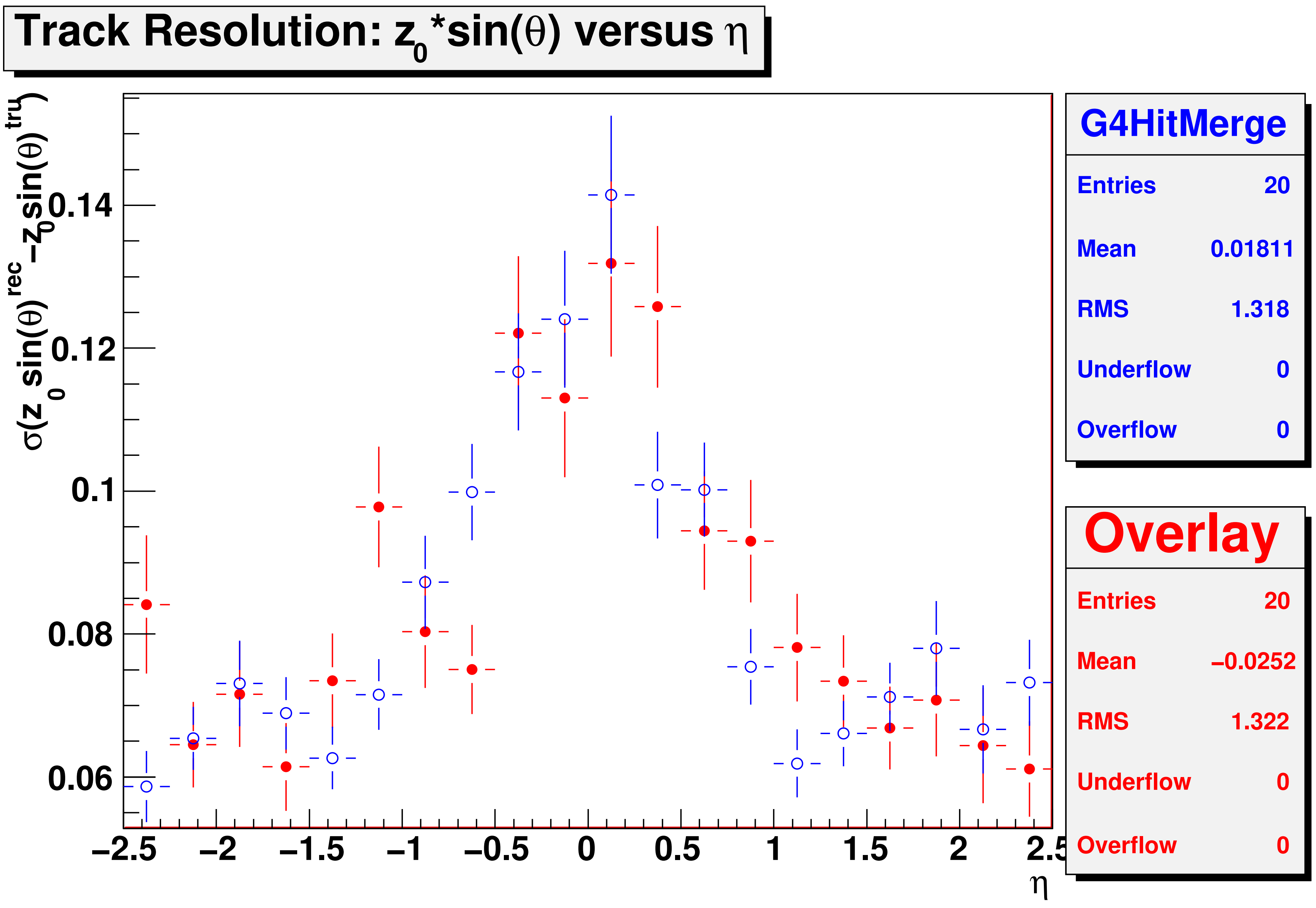
Track Resolution: 1/p_T versus η
σ(q/p_T^rec − q/p_T^tru)
0.06
0.08
0.1
0.12
0.14
0.16
0.18
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.00625
RMS 1.503
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.008995
RMS 1.481
Underflow 0
Overflow 0



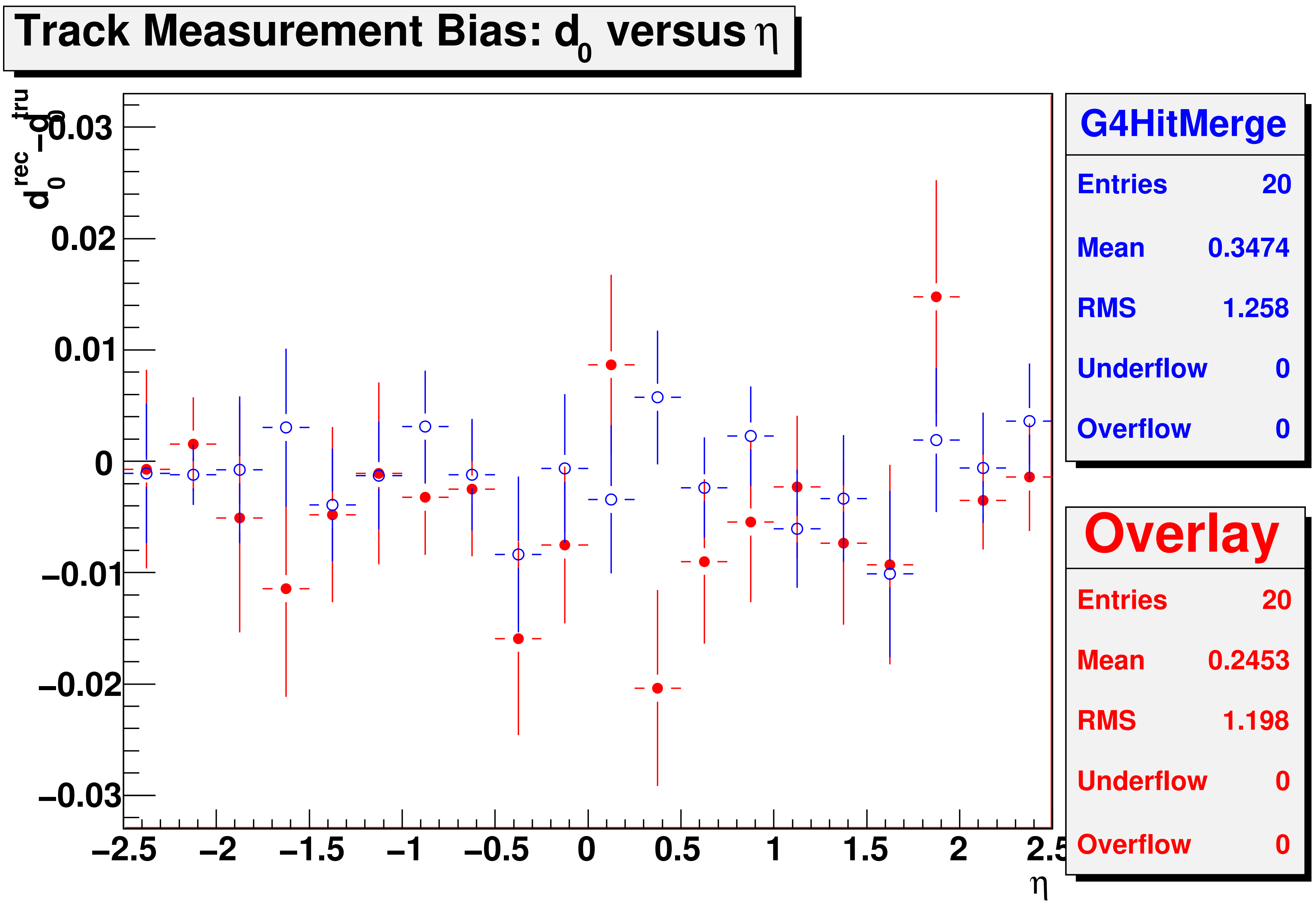
Track Resolution: z0 versus η
σ(z0rec−z0tru)
0.35
0.3
0.25
0.2
0.15
0.1
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.07436
RMS 1.69
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.03236
RMS 1.677
Underflow 0
Overflow 0



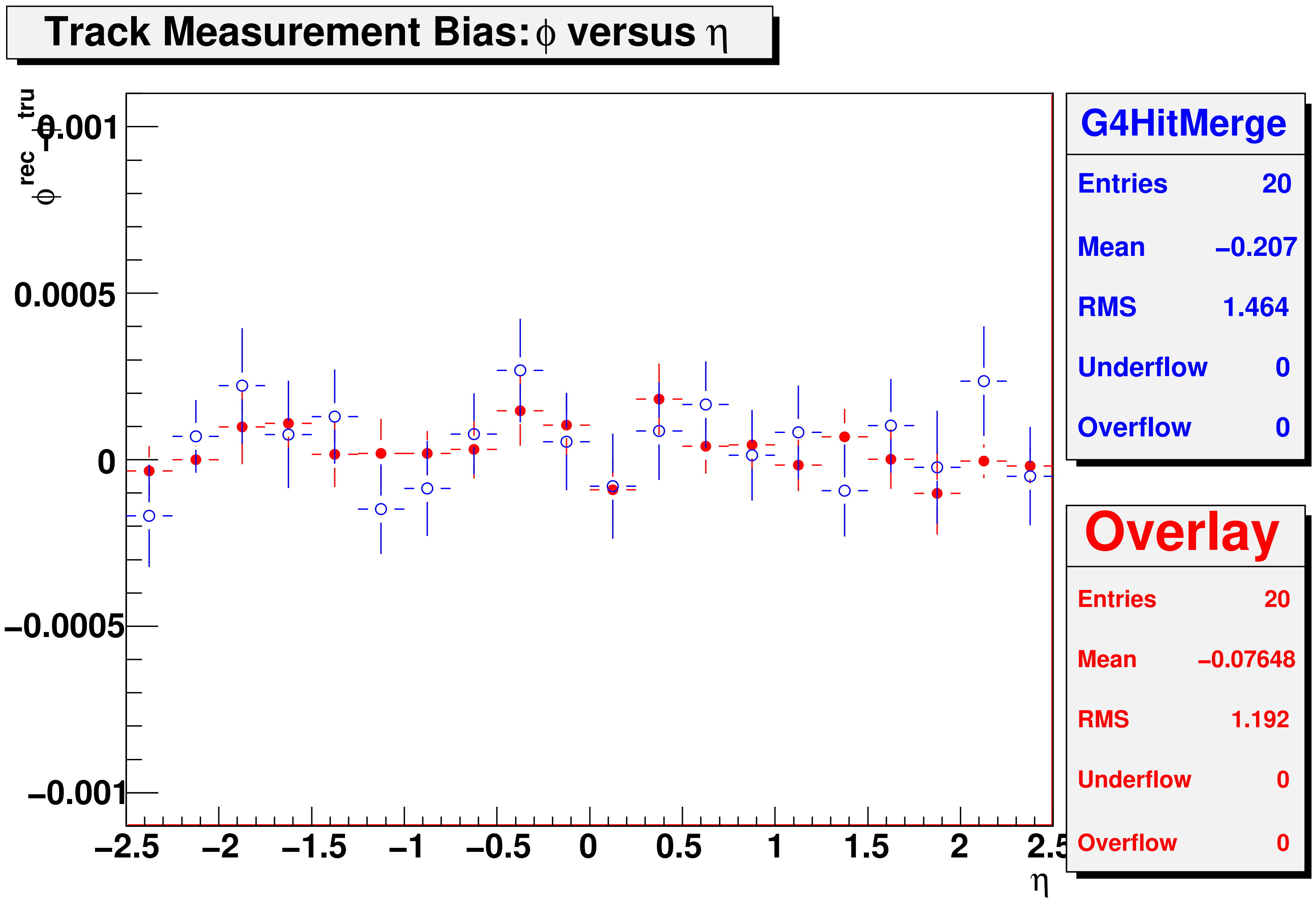
Track Resolution: θ versus η
σ(θ^rec − θ^tru)
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.002383
RMS 1.049
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.02763
RMS 0.9909
Underflow 0
Overflow 0



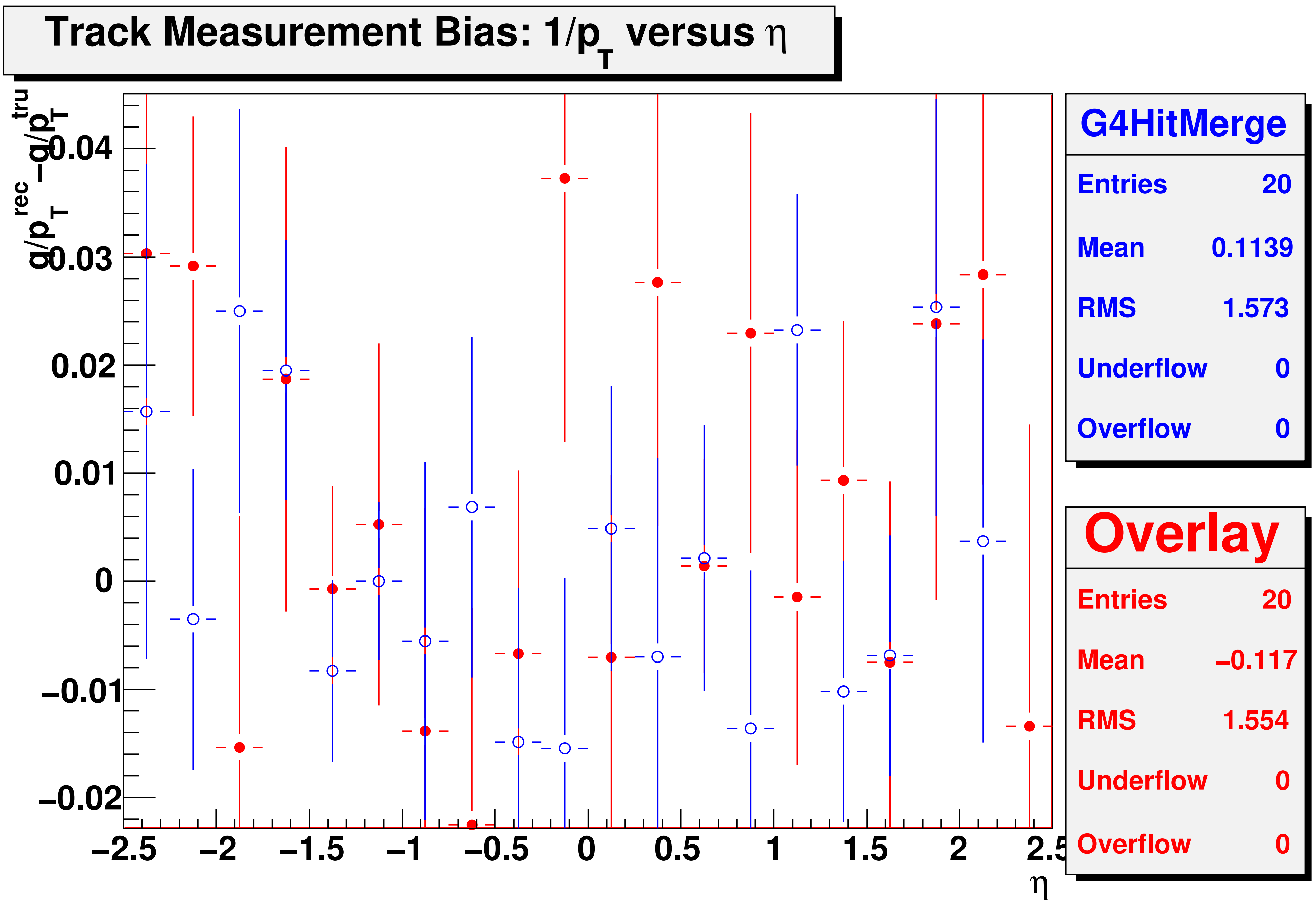
Track Resolution: z_0*sin(θ) versus η
$\sigma(z_0\sin(\theta)^{rec}-z_0\sin(\theta)^{tru})$
0.06
0.08
0.1
0.12
0.14
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.01811
RMS 1.318
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.0252
RMS 1.322
Underflow 0
Overflow 0



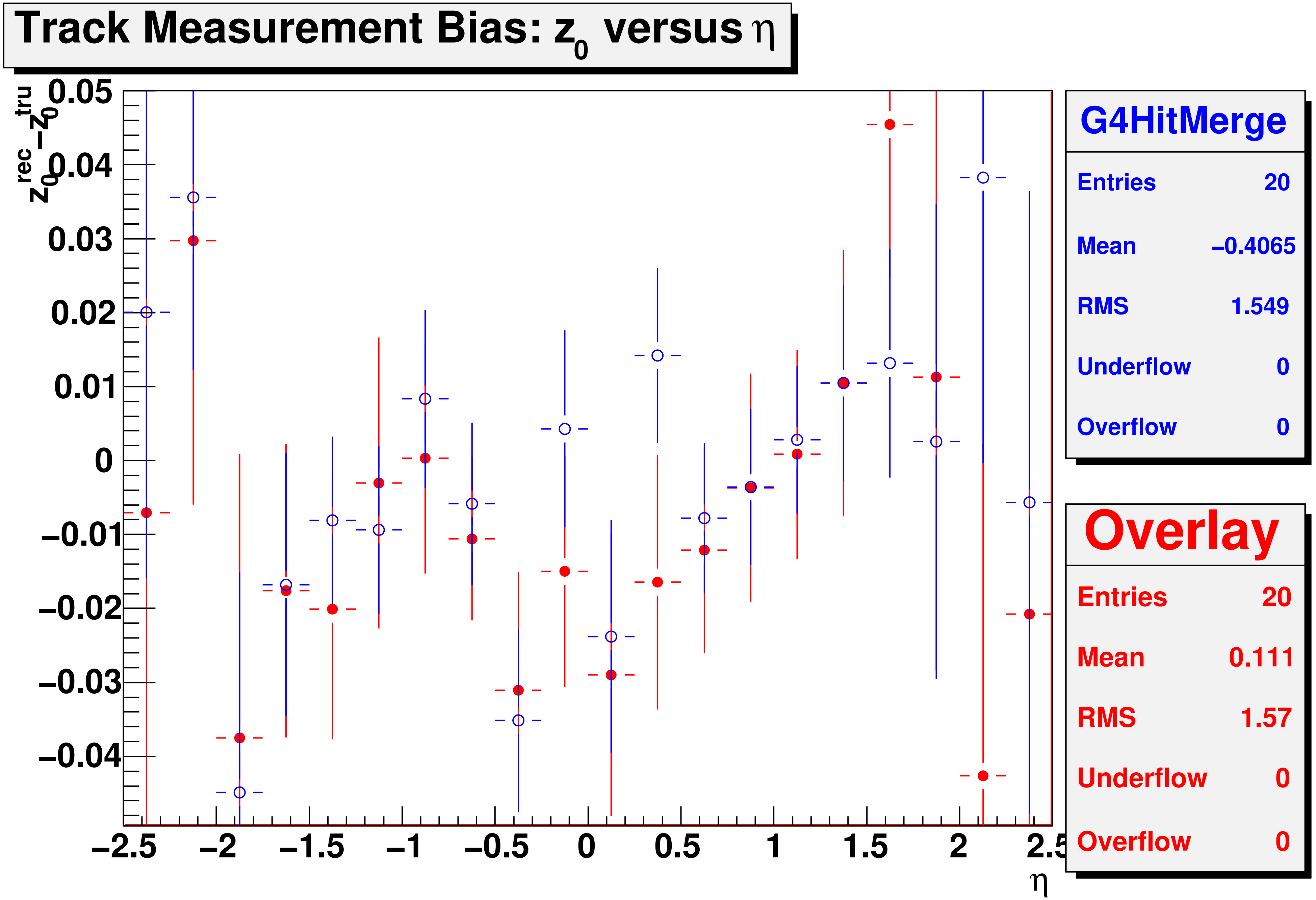
Track Measurement Bias: d_0 versus η
$d_0^{rec}-d_0^{tru}$
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.3474
RMS 1.258
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.2453
RMS 1.198
Underflow 0
Overflow 0



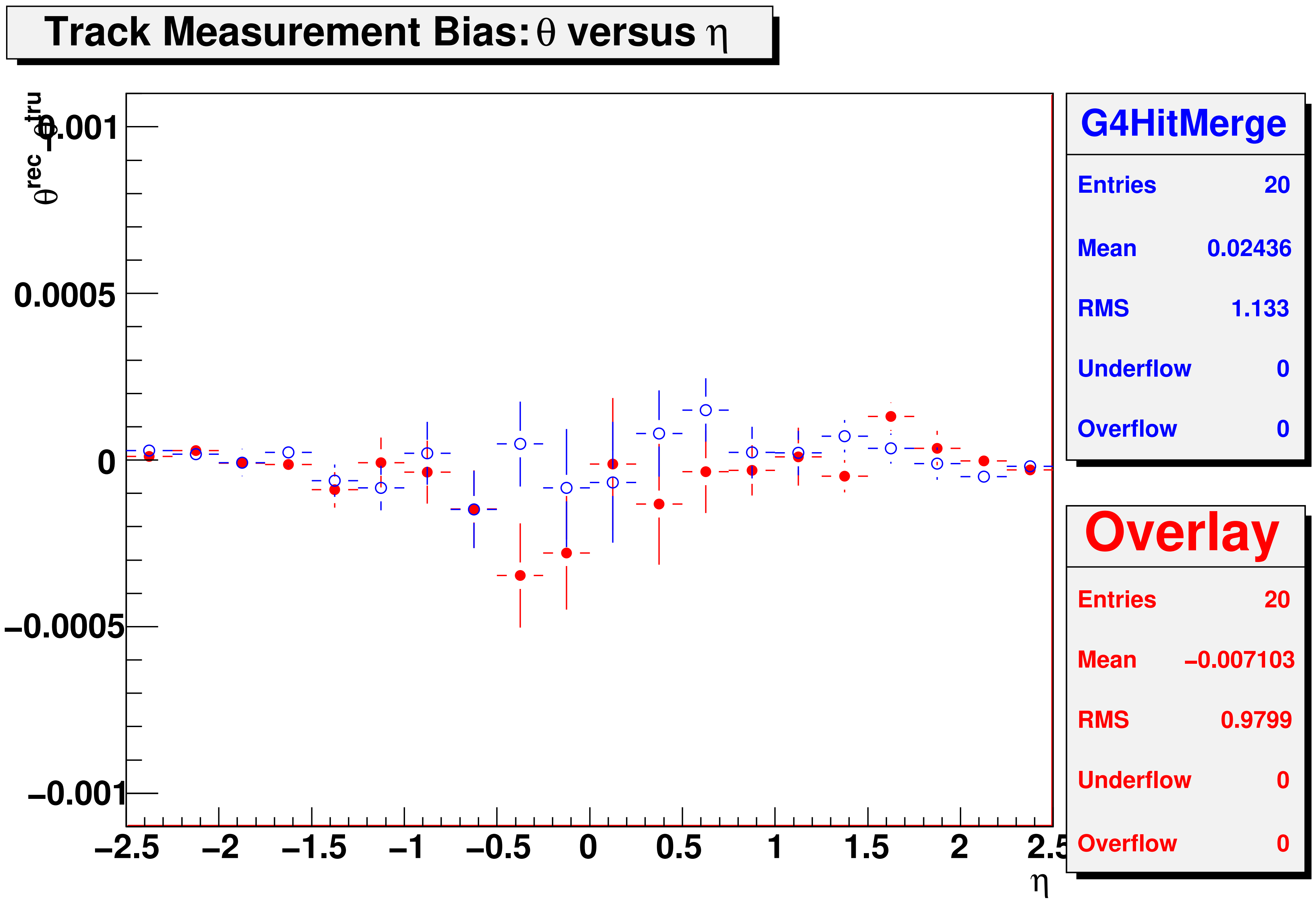
Track Measurement Bias: ϕ versus η
ϕ^rec − ϕ^tru
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.207
RMS 1.464
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.07648
RMS 1.192
Underflow 0
Overflow 0



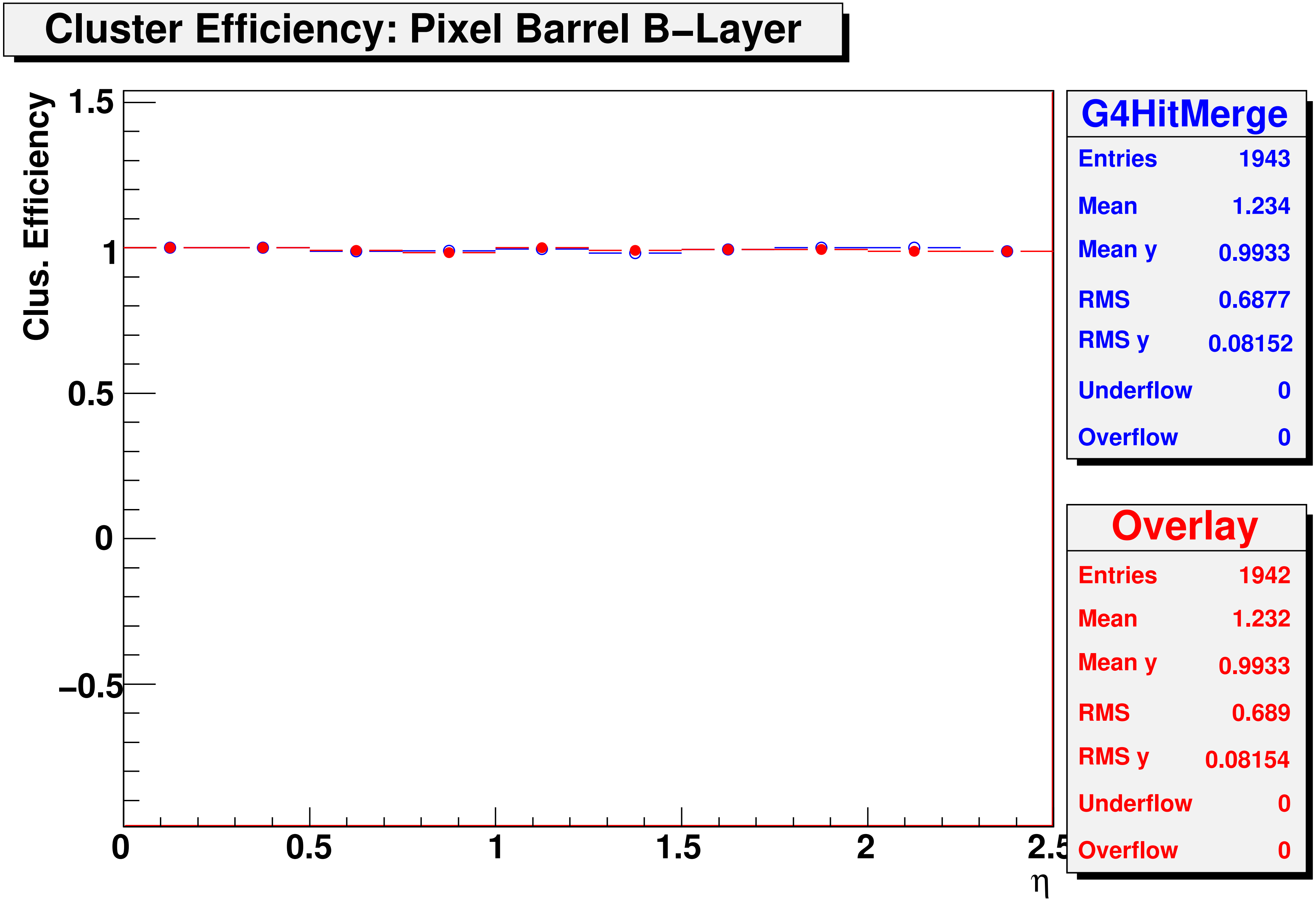
Track Measurement Bias: 1/p_T versus η
q/p_T^rec − q/p_T^tru
η
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
G4HitMerge
Entries 20
Mean 0.1139
RMS 1.573
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.117
RMS 1.554
Underflow 0
Overflow 0

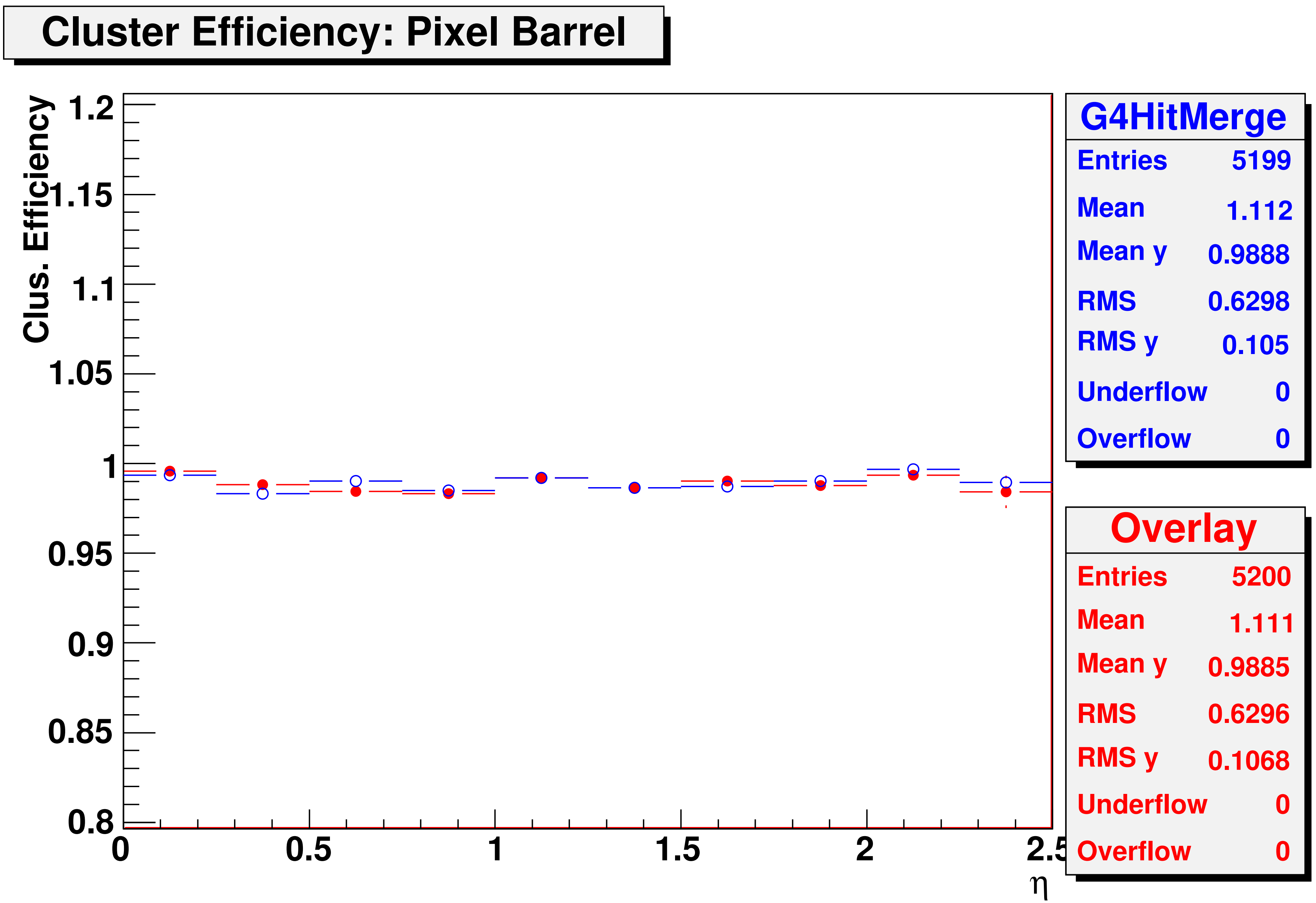


Track Measurement Bias: z_0 versus η
$z_0^{rec}-z_0^{tru}$
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.4065
RMS 1.549
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.111
RMS 1.57
Underflow 0
Overflow 0

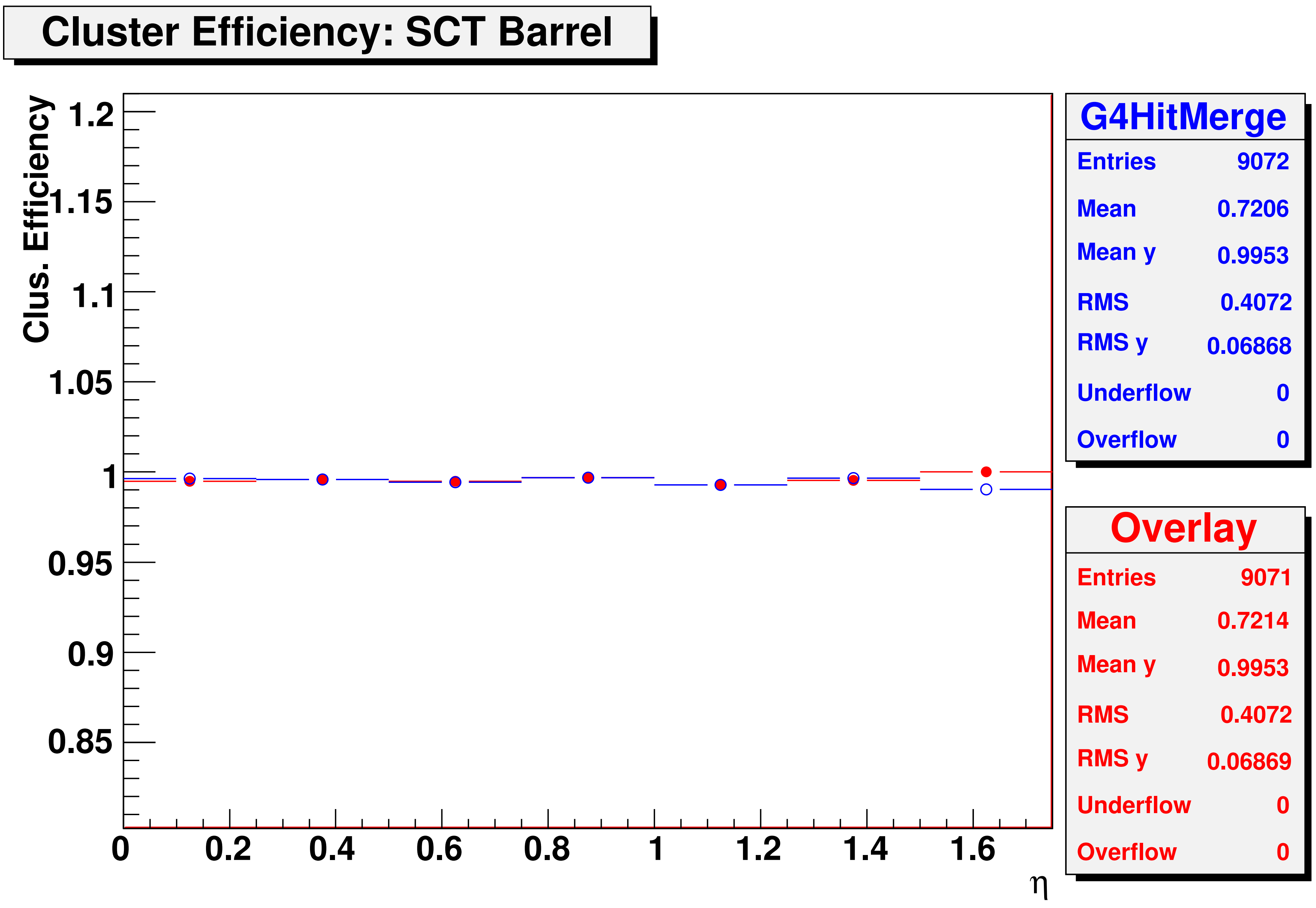


Track Measurement Bias: θ versus η
θ^rec − θ^tru
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.02436
RMS 1.133
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.007103
RMS 0.9799
Underflow 0
Overflow 0

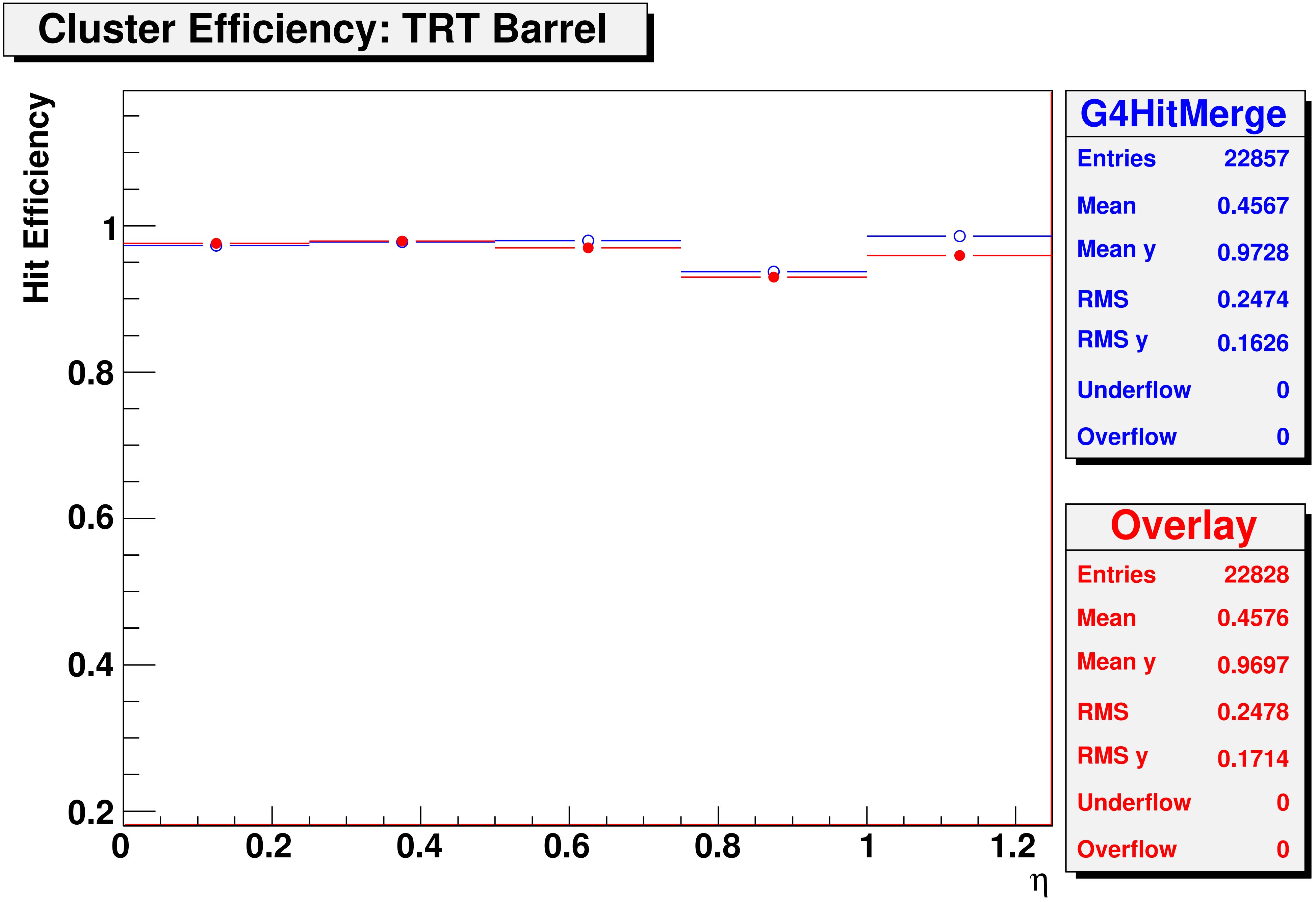

Cluster Efficiency: Pixel Barrel B–Layer
Clus. Efficiency
1.5
1
0.5
0
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1943
Mean 1.234
Mean y 0.9933
RMS 0.6877
RMS y 0.08152
Underflow 0
Overflow 0
Overlay
Entries 1942
Mean 1.232
Mean y 0.9933
RMS 0.689
RMS y 0.08154
Underflow 0
Overflow 0



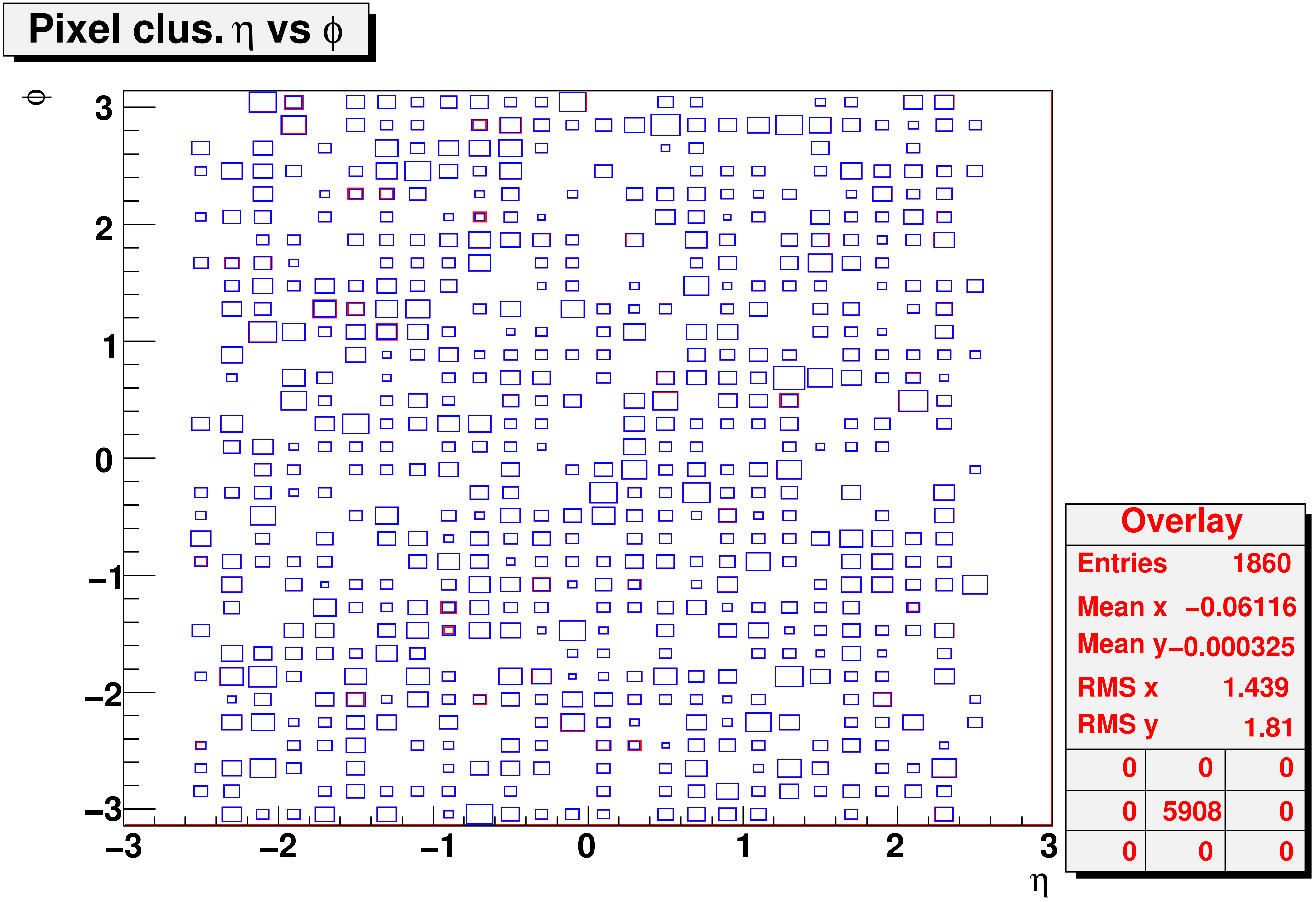
Cluster Efficiency: Pixel Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 5199
Mean 1.112
Mean y 0.9888
RMS 0.6298
RMS y 0.105
Underflow 0
Overflow 0
Overlay
Entries 5200
Mean 1.111
Mean y 0.9885
RMS 0.6296
RMS y 0.1068
Underflow 0
Overflow 0



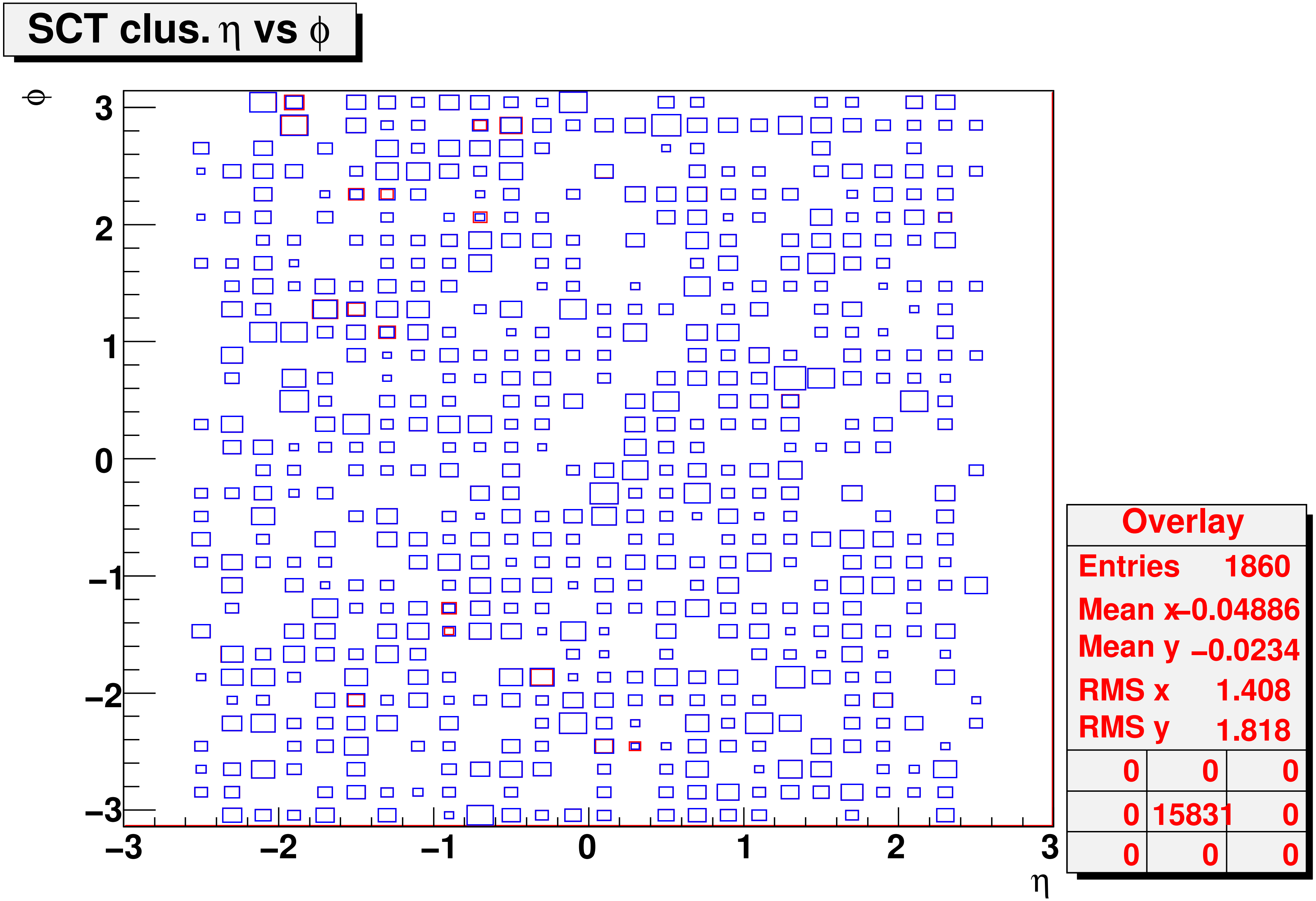
Cluster Efficiency: SCT Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
η
G4HitMerge
Entries 9072
Mean 0.7206
Mean y 0.9953
RMS 0.4072
RMS y 0.06868
Underflow 0
Overflow 0
Overlay
Entries 9071
Mean 0.7214
Mean y 0.9953
RMS 0.4072
RMS y 0.06869
Underflow 0
Overflow 0



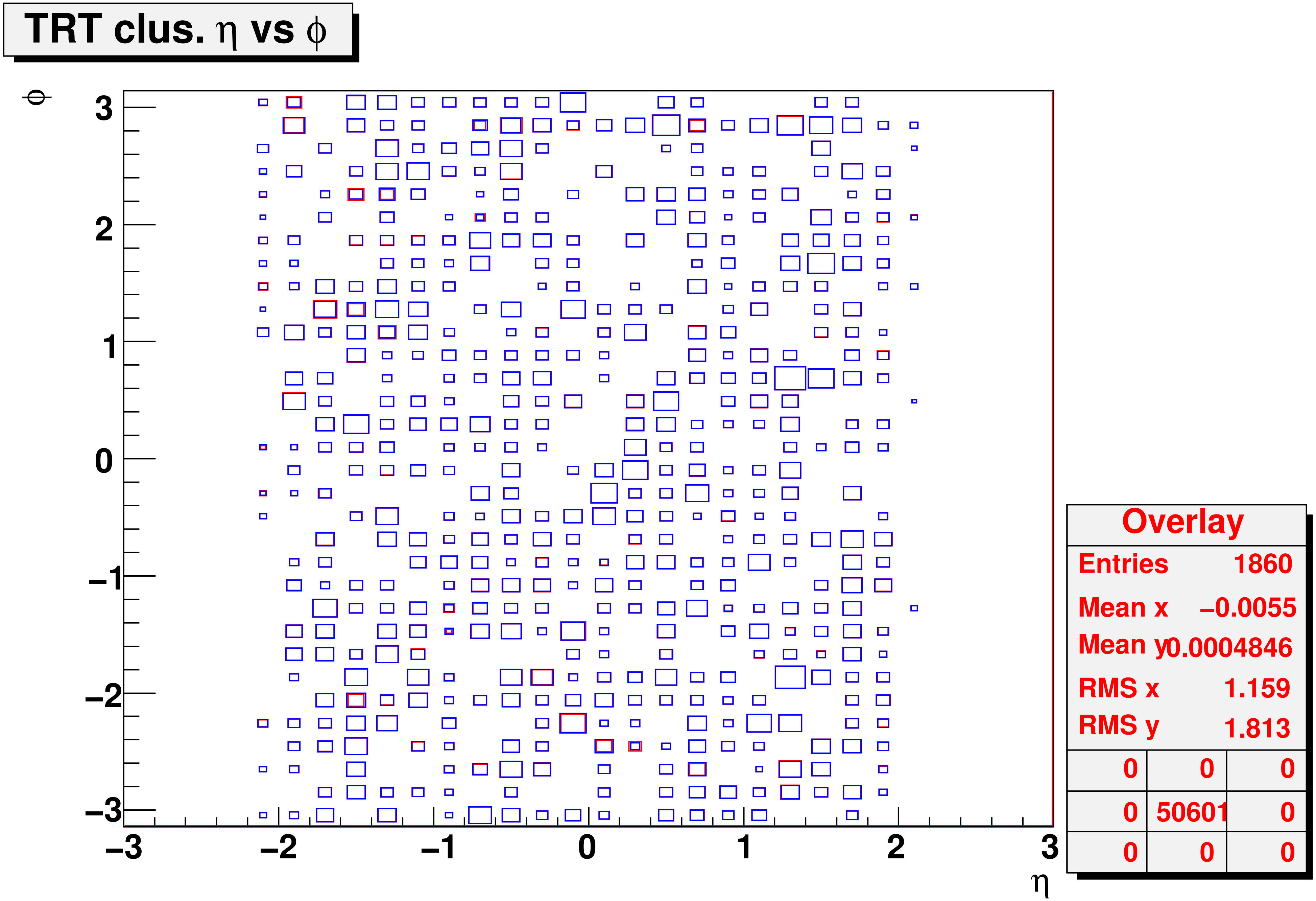
Cluster Efficiency: TRT Barrel
Hit Efficiency
η
0
0.2
0.4
0.6
0.8
1
1.2
G4HitMerge
Entries 22857
Mean 0.4567
Mean y 0.9728
RMS 0.2474
RMS y 0.1626
Underflow 0
Overflow 0
Overlay
Entries 22828
Mean 0.4576
Mean y 0.9697
RMS 0.2478
RMS y 0.1714
Underflow 0
Overflow 0

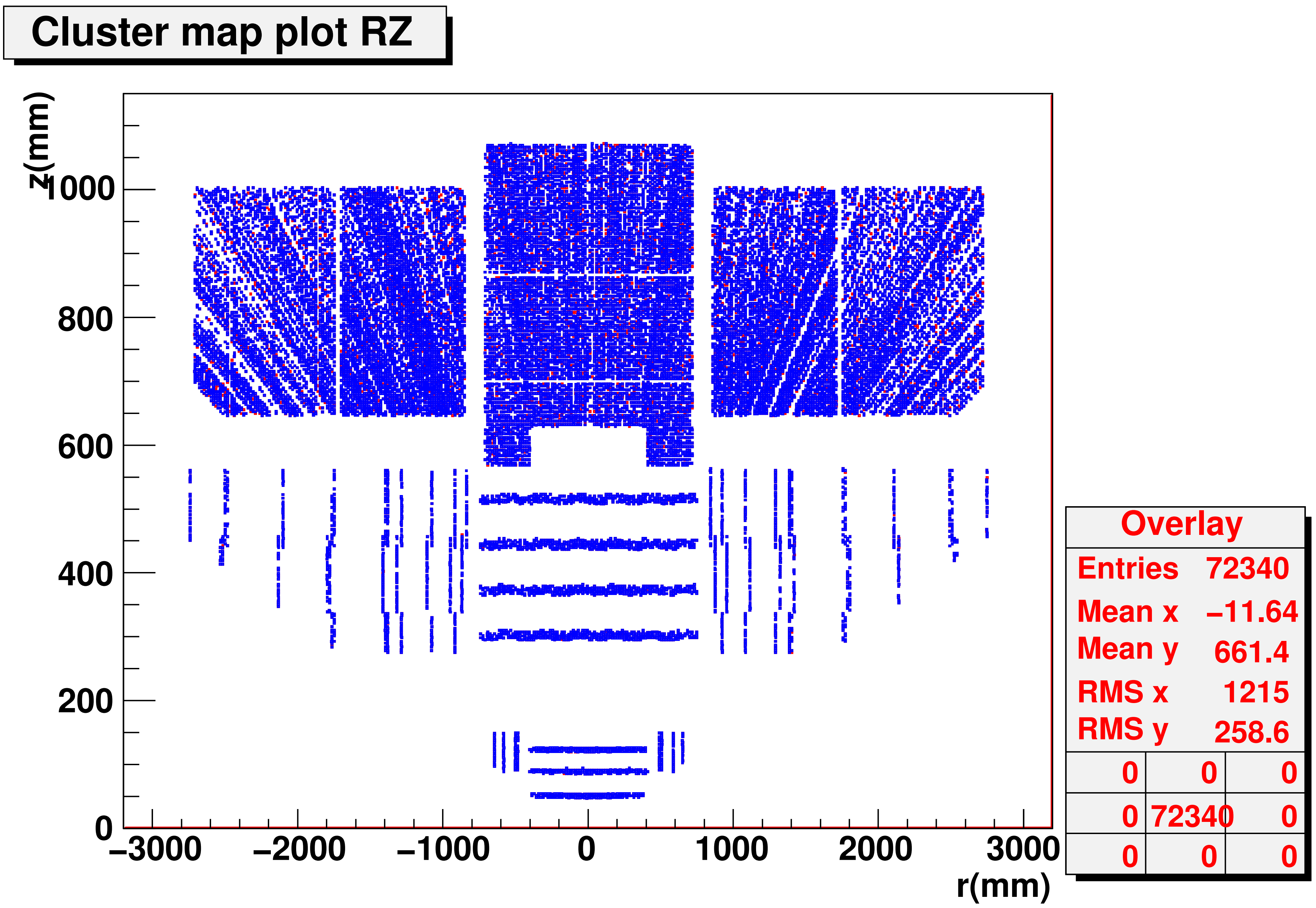


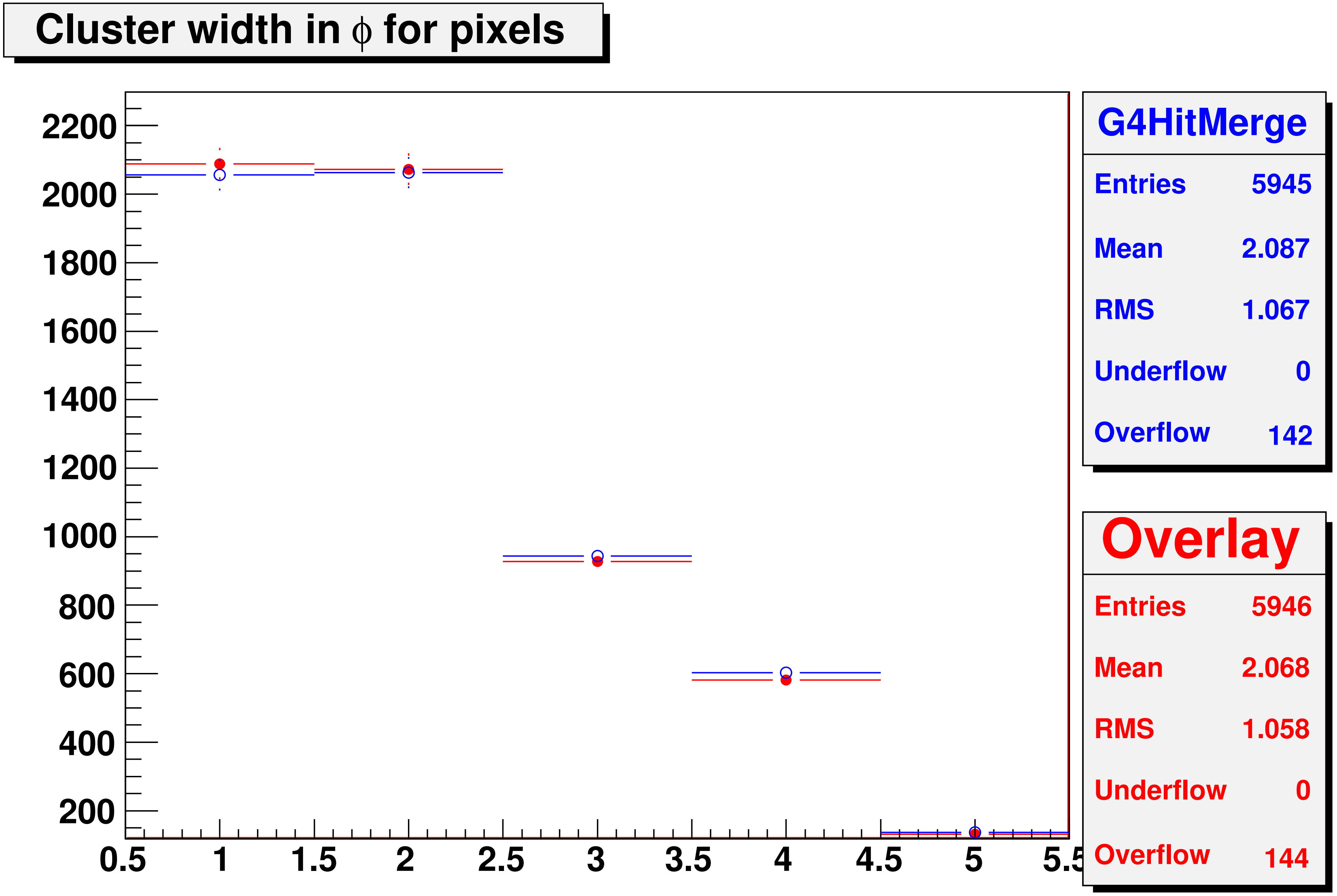
Pixel clus. η vs φ
φ
3
2
1
0
−1
−2
−3
η
Overlay
Entries 1860
Mean x −0.06116
Mean y −0.000325
RMS x 1.439
RMS y 1.81
0 0 0
0 5908 0
0 0 0



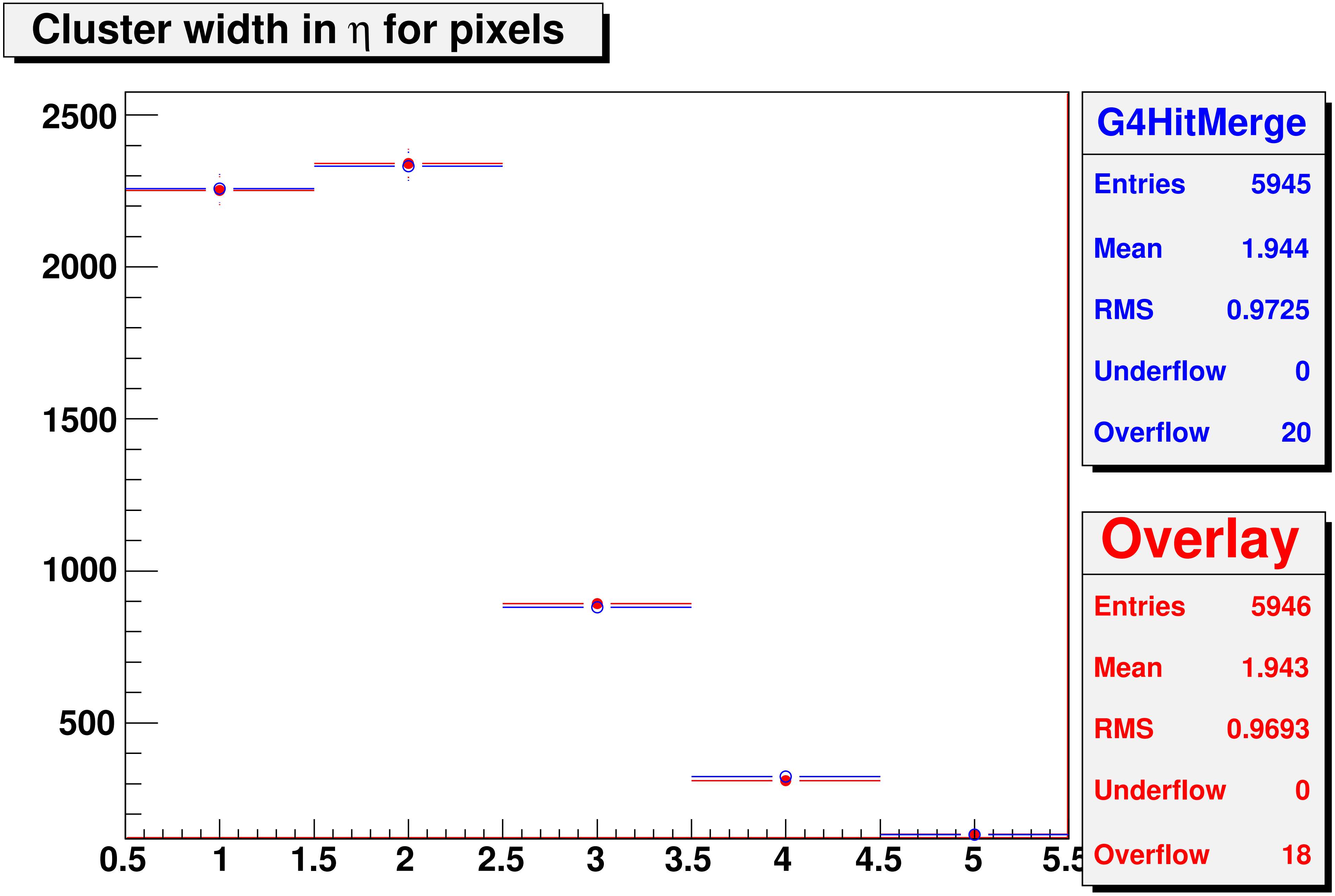
SCT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
η
Overlay
Entries 1860
Mean x −0.04886
Mean y −0.0234
RMS x 1.408
RMS y 1.818
0 0 0
0 15831 0
0 0 0

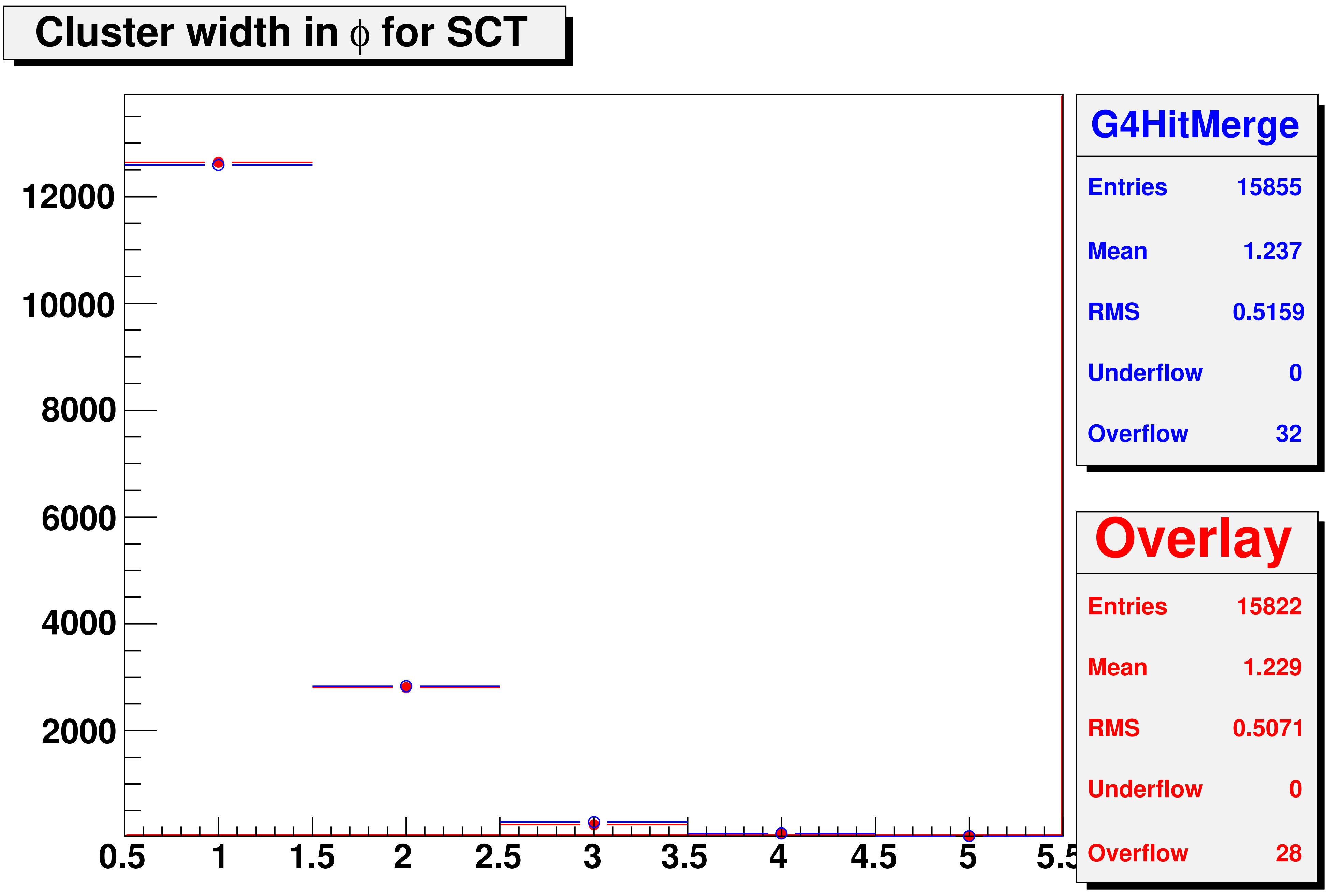

TRT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
η
Overlay
Entries 1860
Mean x −0.0055
Mean y 0.0004846
RMS x 1.159
RMS y 1.813
0 0 0
0 50601 0
0 0 0


Cluster map plot RZ
z(mm)
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000
r(mm)
Overlay
Entries 72340
Mean x −11.64
Mean y 661.4
RMS x 1215
RMS y 258.6
0 0 0
0 72340 0
0 0 0

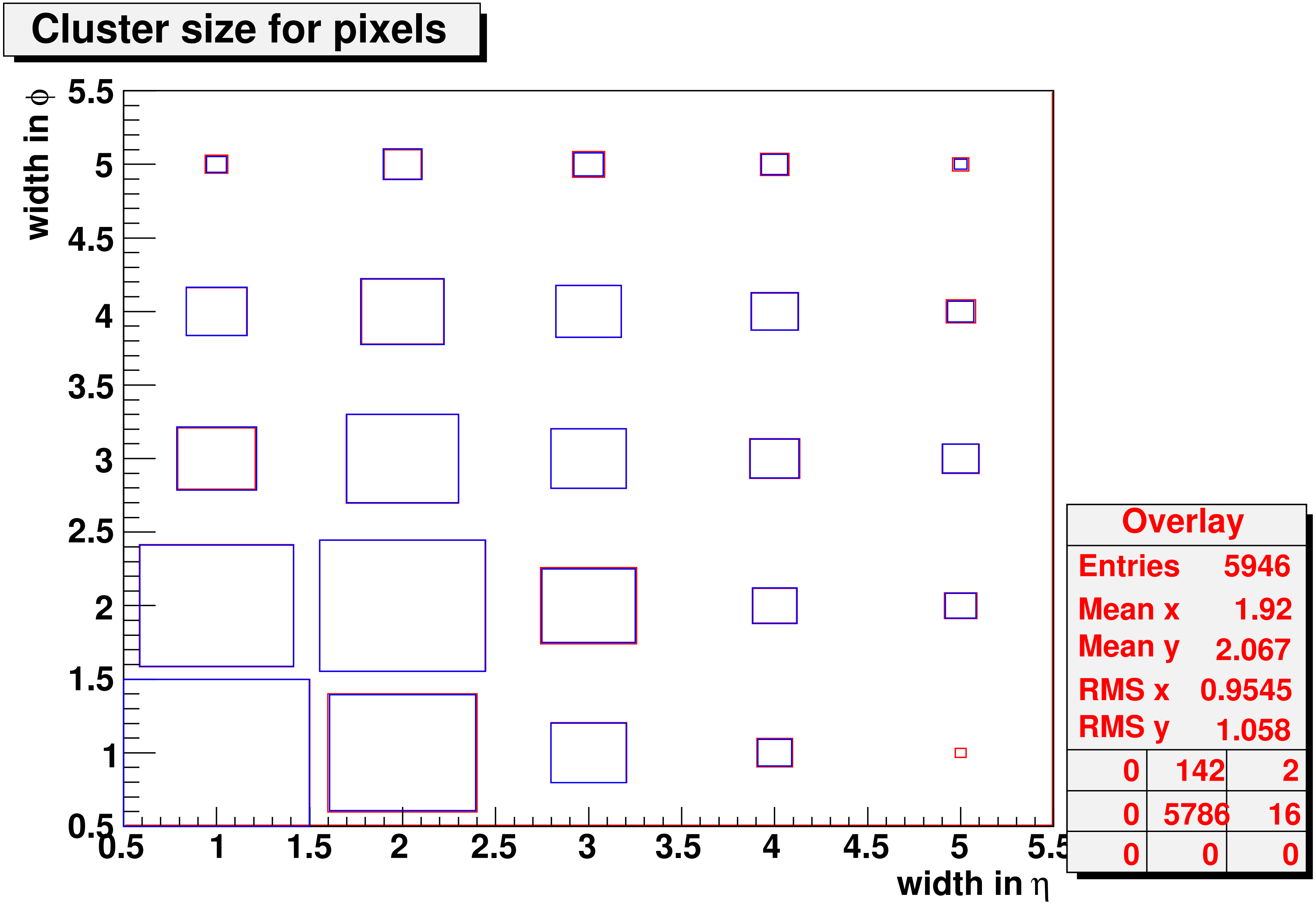


Cluster width in ϕ for pixels
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 5945
Mean 2.087
RMS 1.067
Underflow 0
Overflow 142
Overlay
Entries 5946
Mean 2.068
RMS 1.058
Underflow 0
Overflow 144

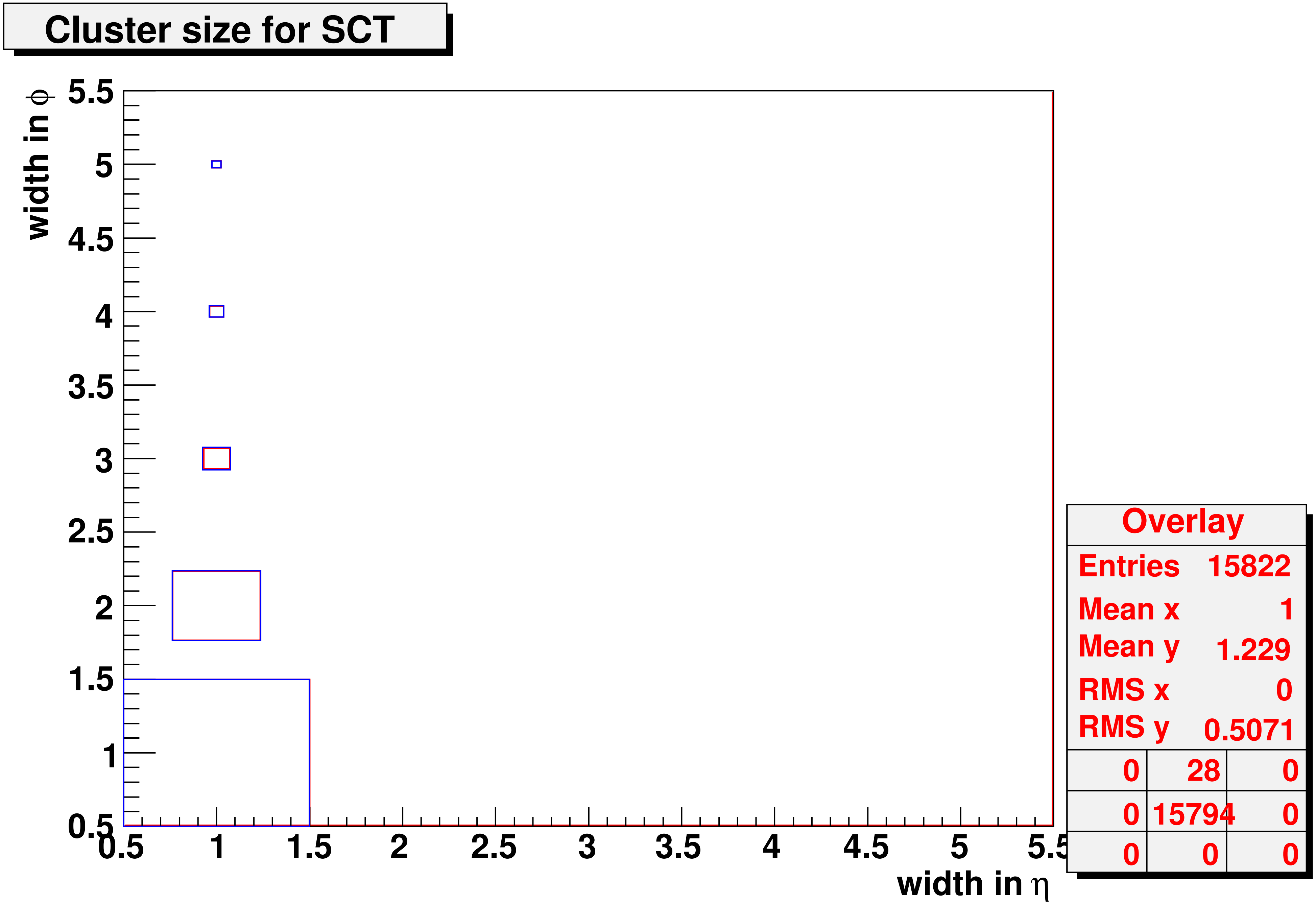

Cluster width in η for pixels
2500
2000
1500
1000
500
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 5945
Mean 1.944
RMS 0.9725
Underflow 0
Overflow 20
Overlay
Entries 5946
Mean 1.943
RMS 0.9693
Underflow 0
Overflow 18

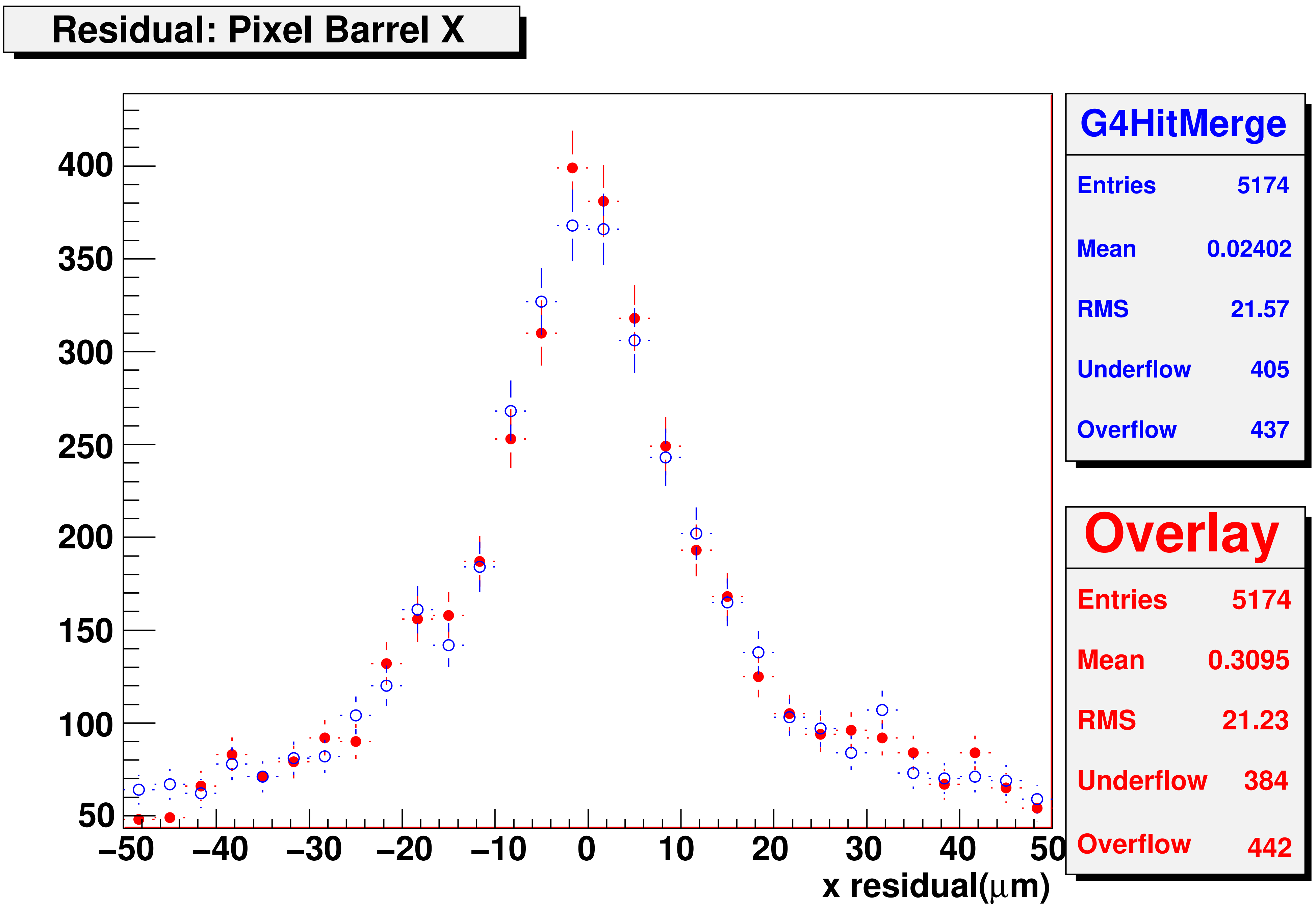


Cluster width in ϕ for SCT
12000
10000
8000
6000
4000
2000
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 15855
Mean 1.237
RMS 0.5159
Underflow 0
Overflow 32
Overlay
Entries 15822
Mean 1.229
RMS 0.5071
Underflow 0
Overflow 28

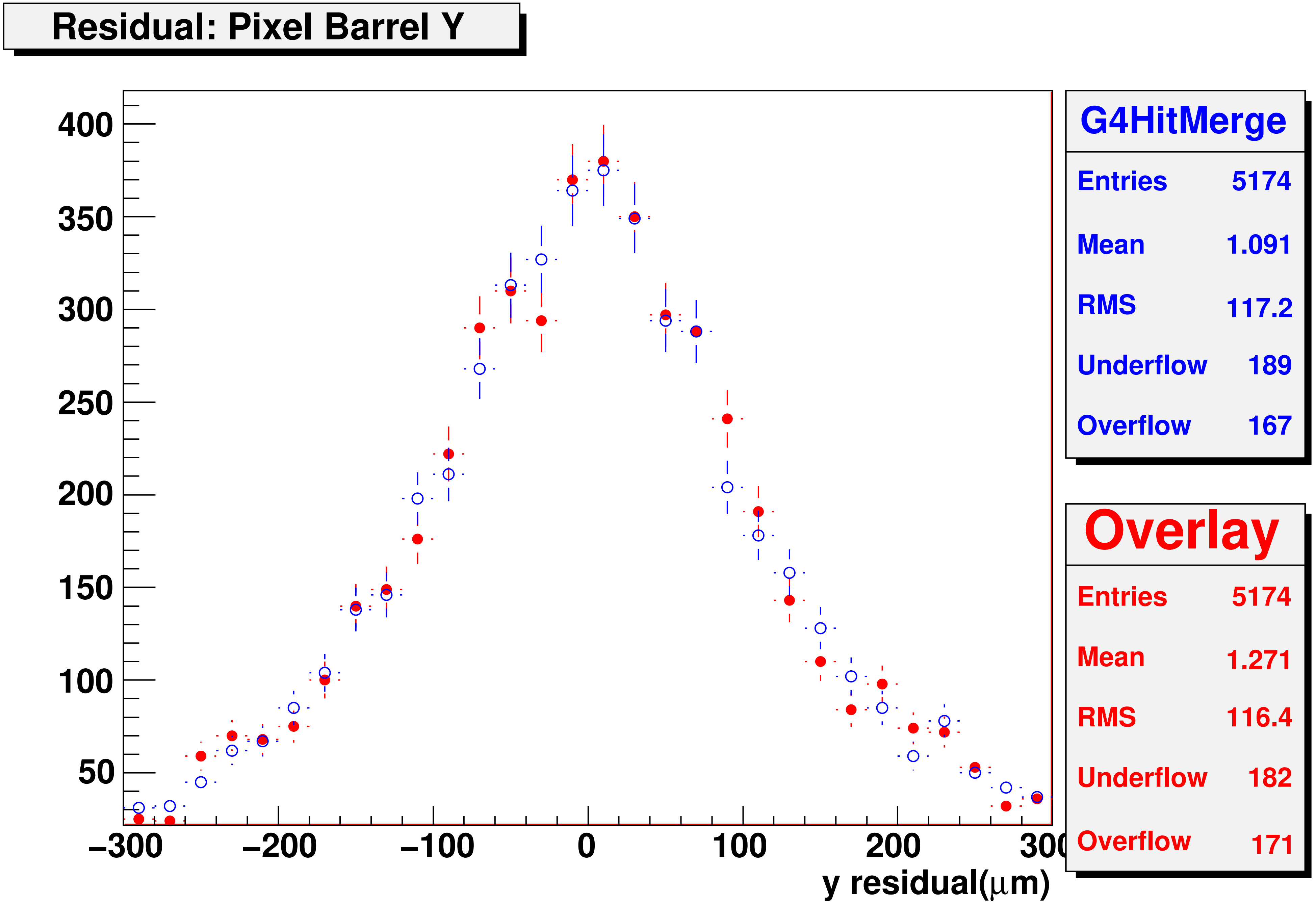


Cluster size for pixels
width in ϕ
width in η
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 5946
Mean x 1.92
Mean y 2.067
RMS x 0.9545
RMS y 1.058
0 142 2
0 5786 16
0 0 0

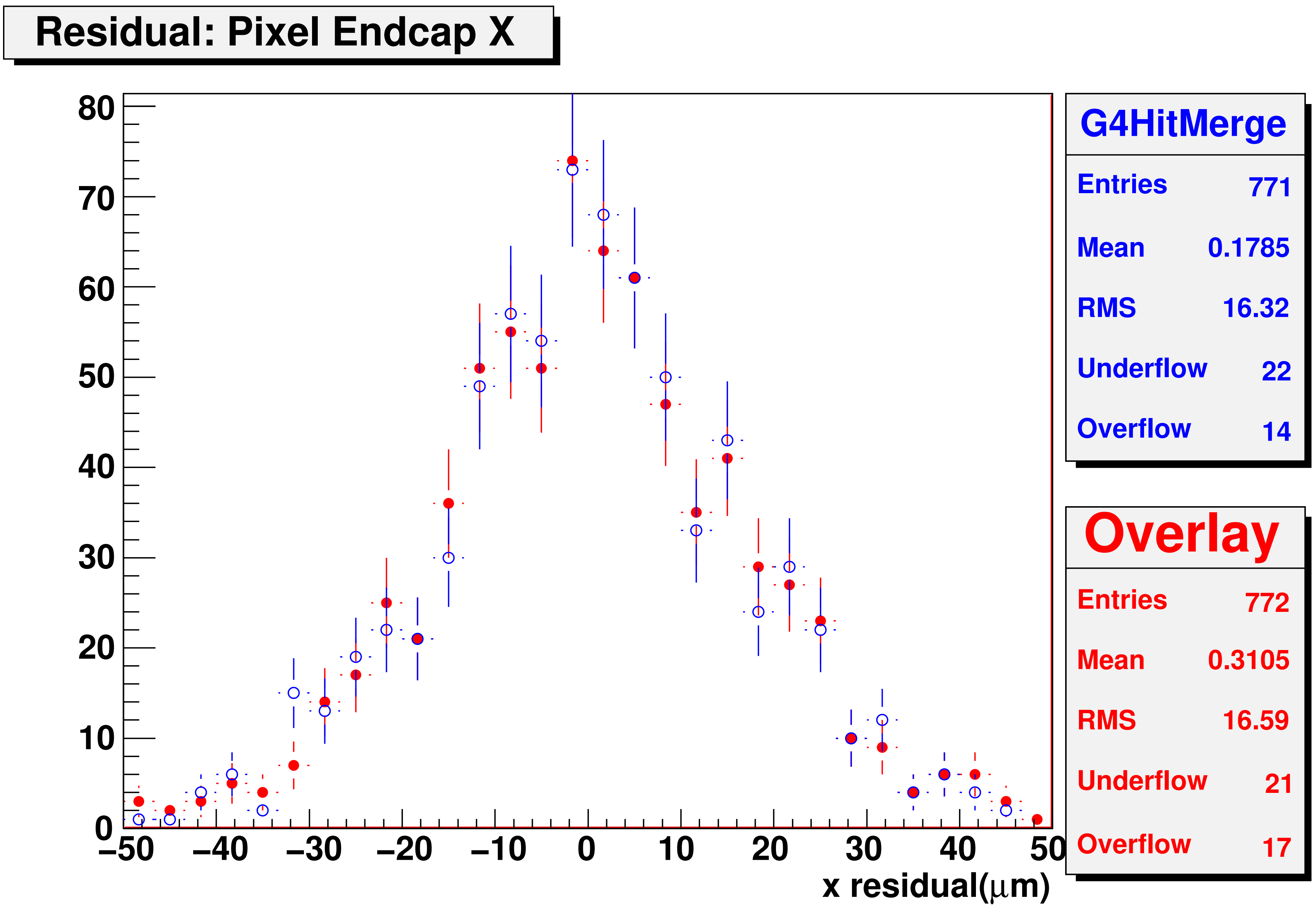

Cluster size for SCT
width in φ
width in η
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 15822
Mean x 1
Mean y 1.229
RMS x 0
RMS y 0.5071
0 28 0
0 15794 0
0 0 0



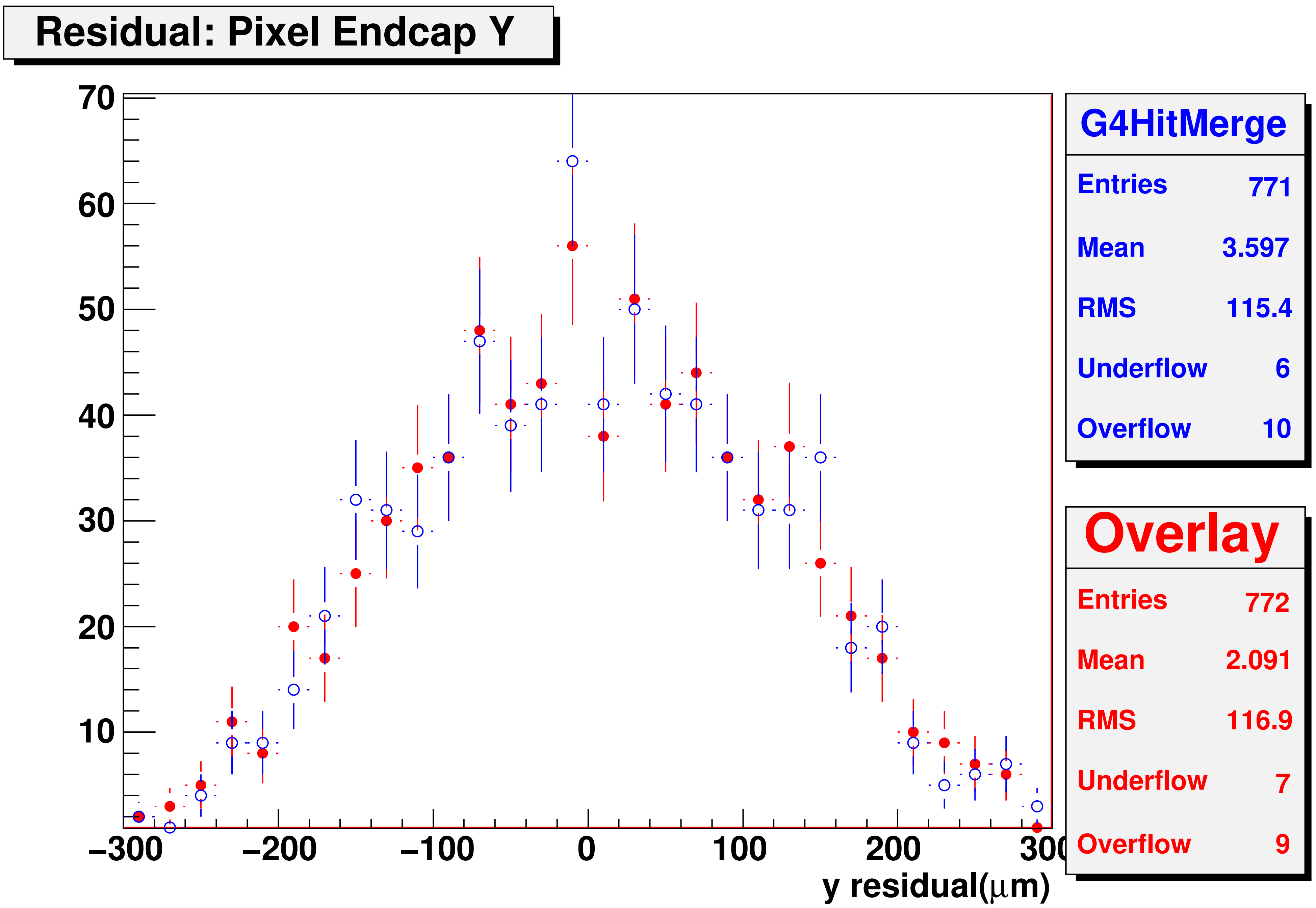
Residual: Pixel Barrel X
400
350
300
250
200
150
100
50
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 5174
Mean 0.02402
RMS 21.57
Underflow 405
Overflow 437
Overlay
Entries 5174
Mean 0.3095
RMS 21.23
Underflow 384
Overflow 442

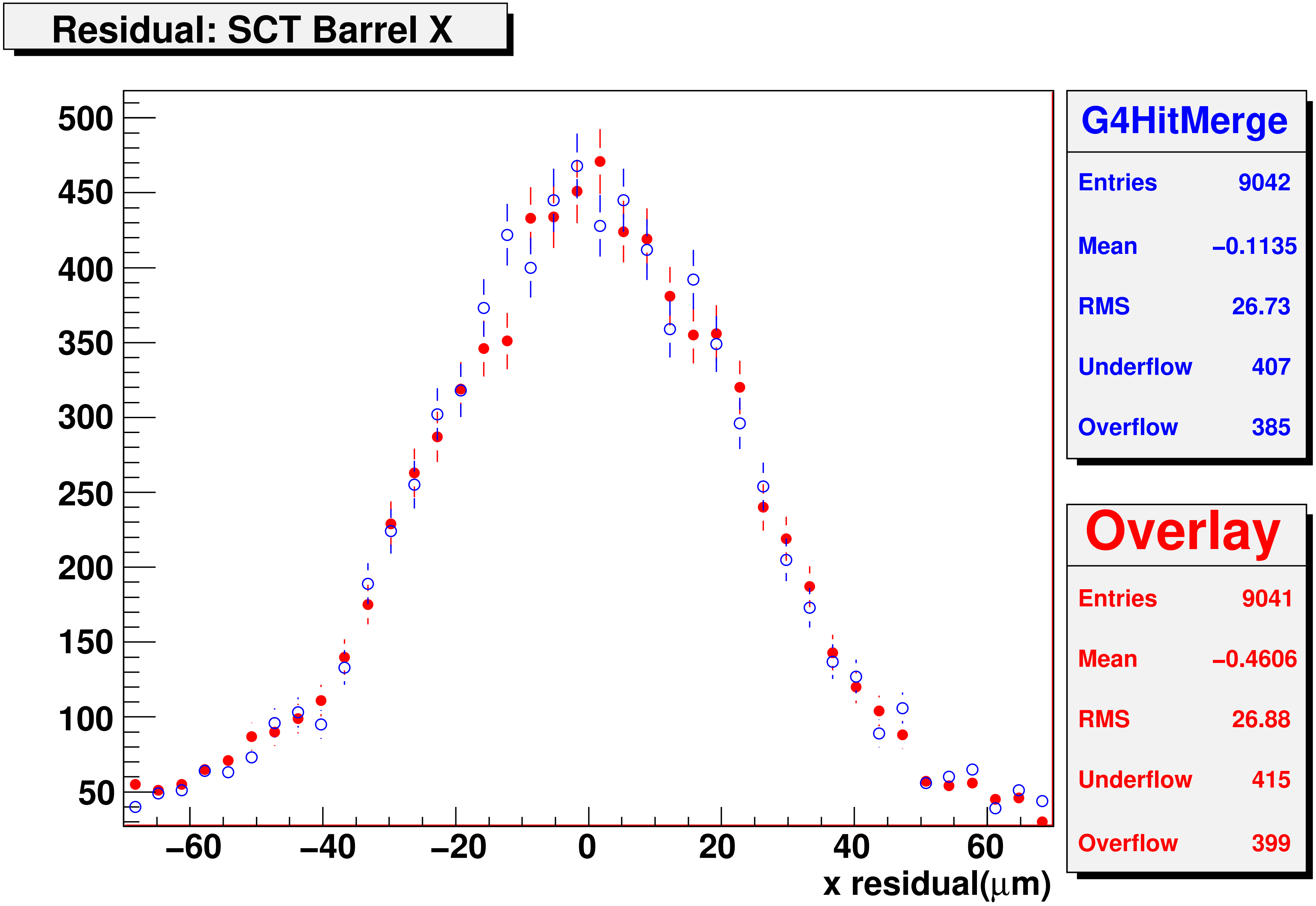


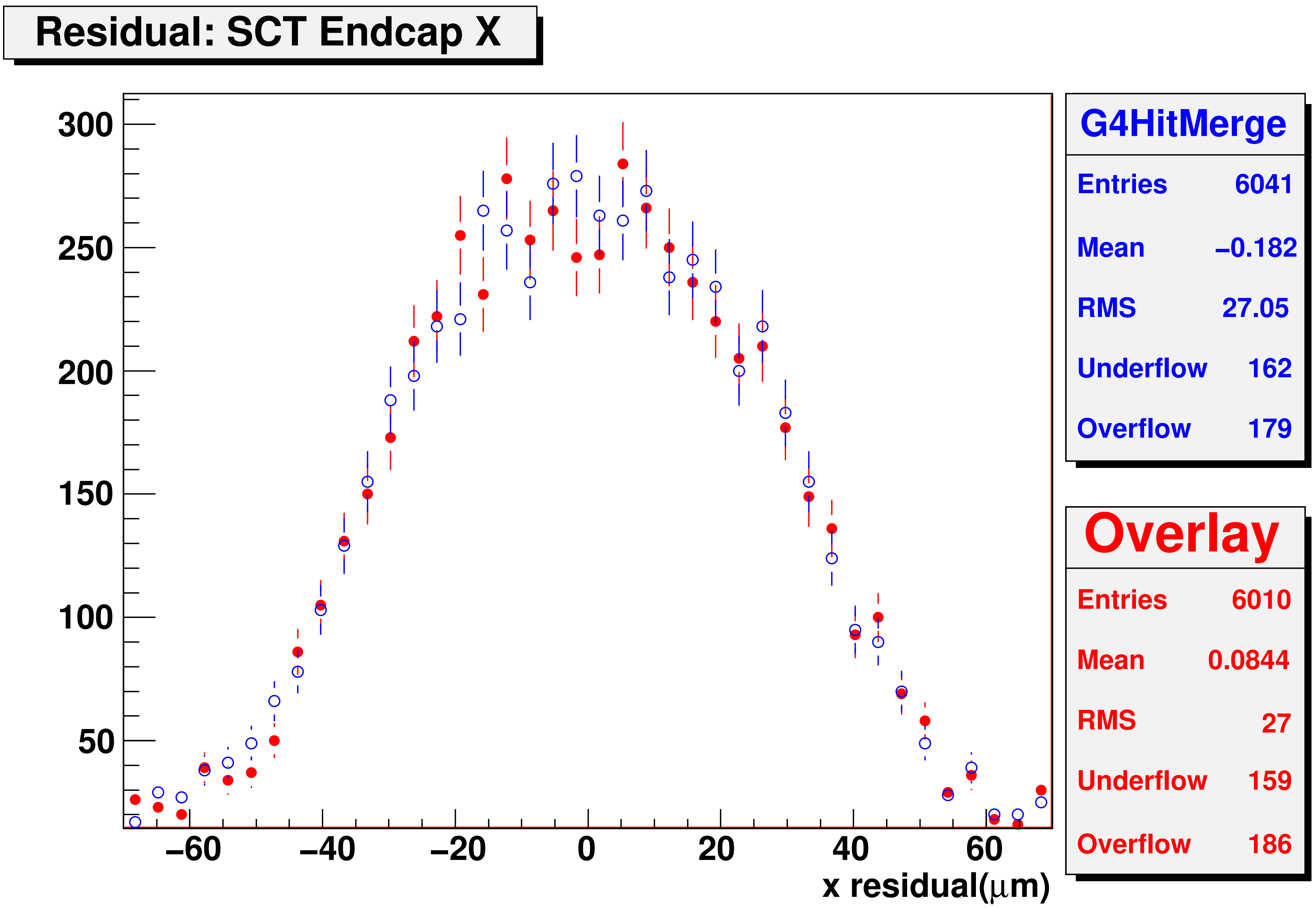
Residual: Pixel Barrel Y
400
350
300
250
200
150
100
50
–300
–200
–100
0
100
200
300
y residual(μm)
G4HitMerge
Entries 5174
Mean 1.091
RMS 117.2
Underflow 189
Overflow 167
Overlay
Entries 5174
Mean 1.271
RMS 116.4
Underflow 182
Overflow 171



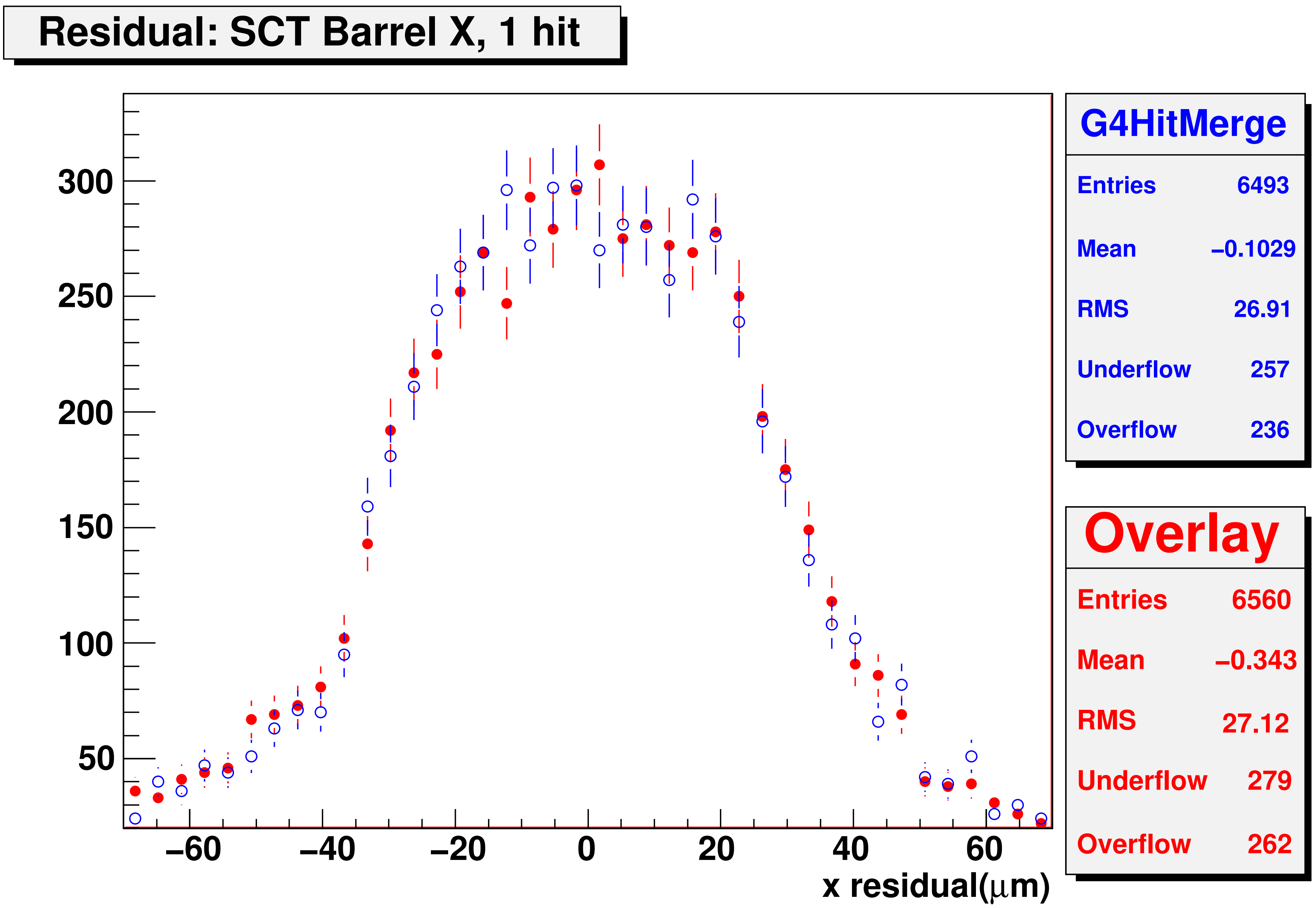
Residual: Pixel Endcap X
G4HitMerge
Entries 771
Mean 0.1785
RMS 16.32
Underflow 22
Overflow 14
Overlay
Entries 772
Mean 0.3105
RMS 16.59
Underflow 21
Overflow 17
0
10
20
30
40
50
60
70
80
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)


Residual: Pixel Endcap Y
G4HitMerge
Entries 771
Mean 3.597
RMS 115.4
Underflow 6
Overflow 10
Overlay
Entries 772
Mean 2.091
RMS 116.9
Underflow 7
Overflow 9
y residual(μm)
70
60
50
40
30
20
10
−300
−200
−100
0
100
200
300

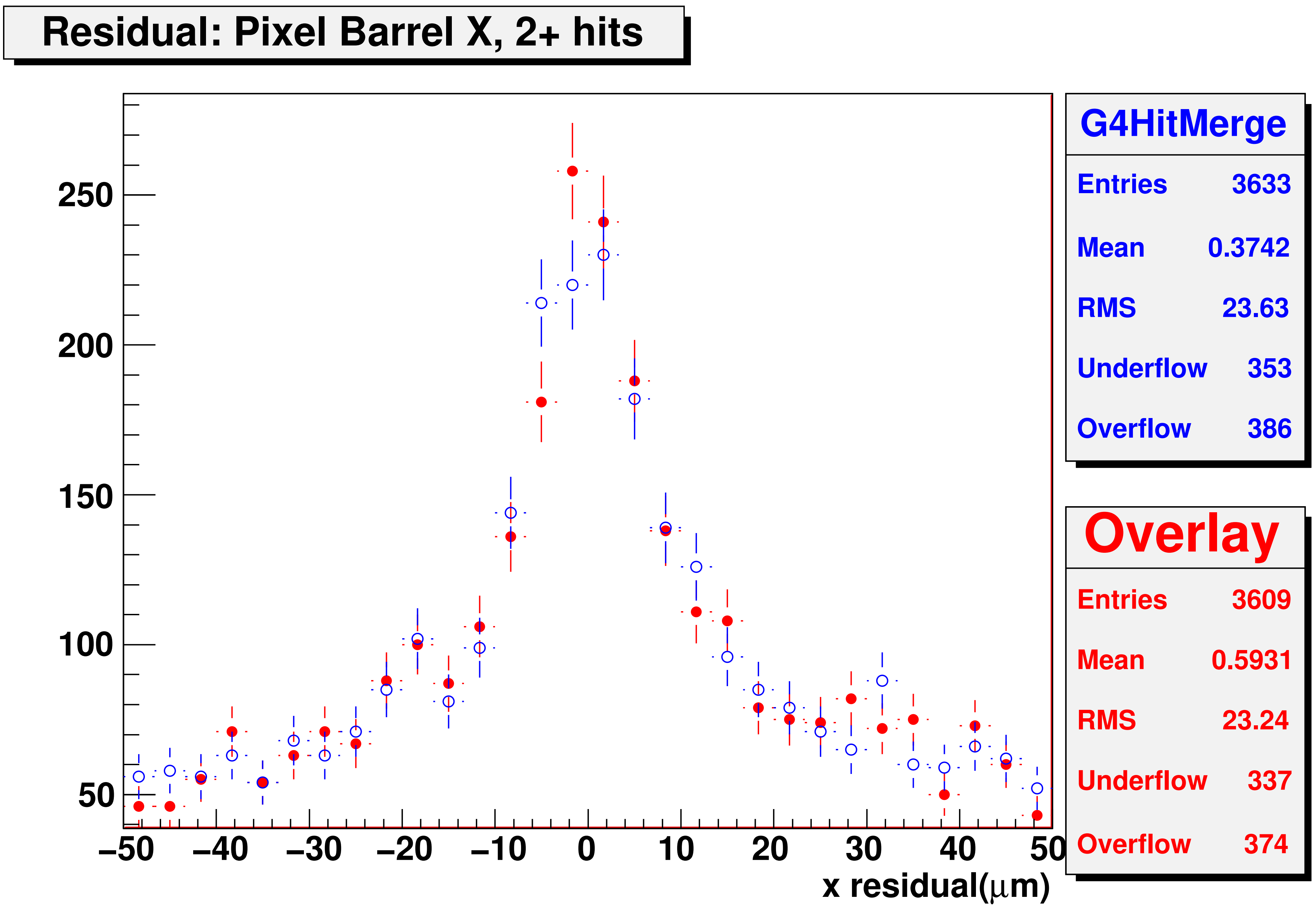

Residual: SCT Barrel X
500
450
400
350
300
250
200
150
100
50
–60
–40
–20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 9042
Mean –0.1135
RMS 26.73
Underflow 407
Overflow 385
Overlay
Entries 9041
Mean –0.4606
RMS 26.88
Underflow 415
Overflow 399

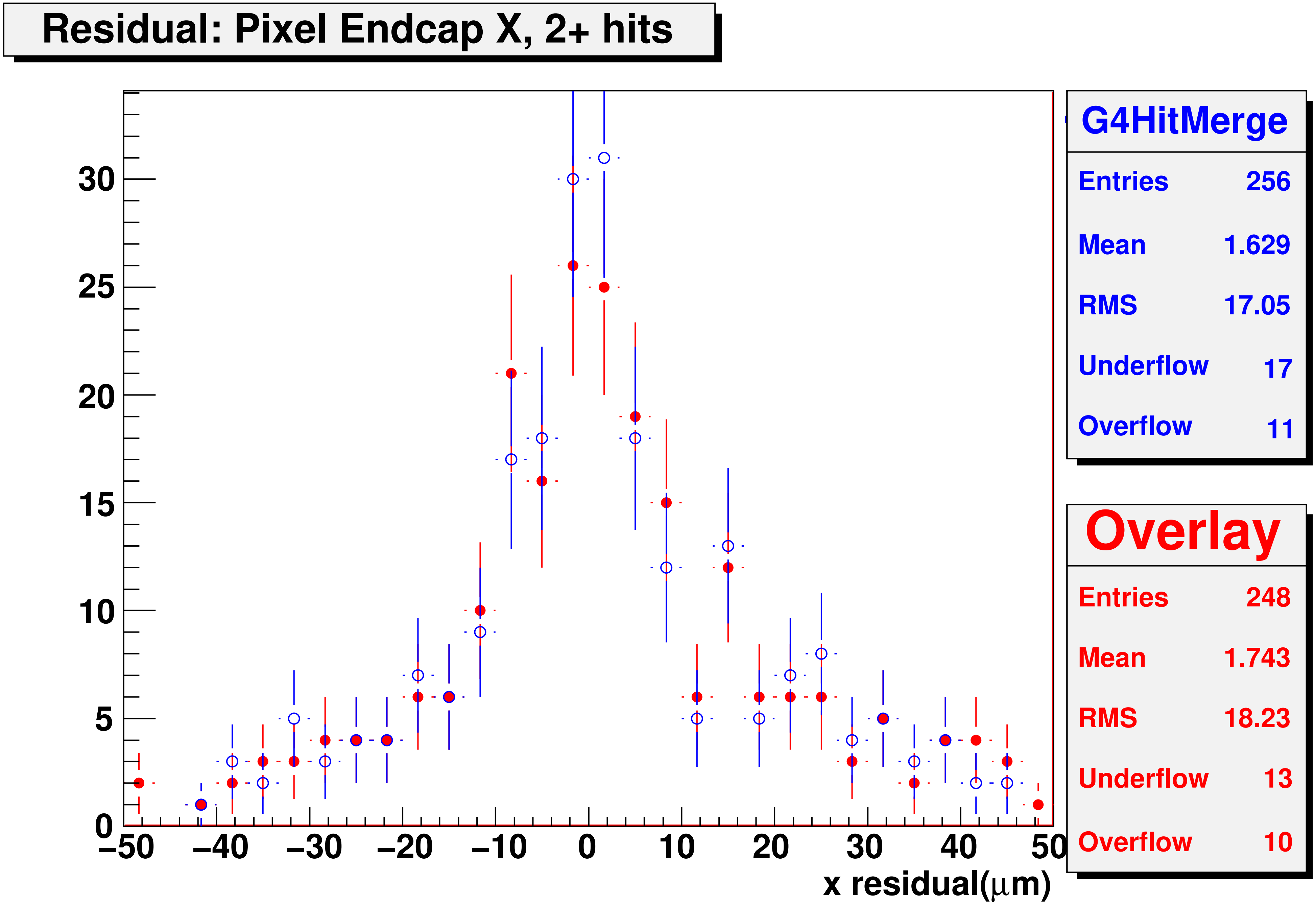


Residual: SCT Endcap X
300
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 6041
Mean −0.182
RMS 27.05
Underflow 162
Overflow 179
Overlay
Entries 6010
Mean 0.0844
RMS 27
Underflow 159
Overflow 186

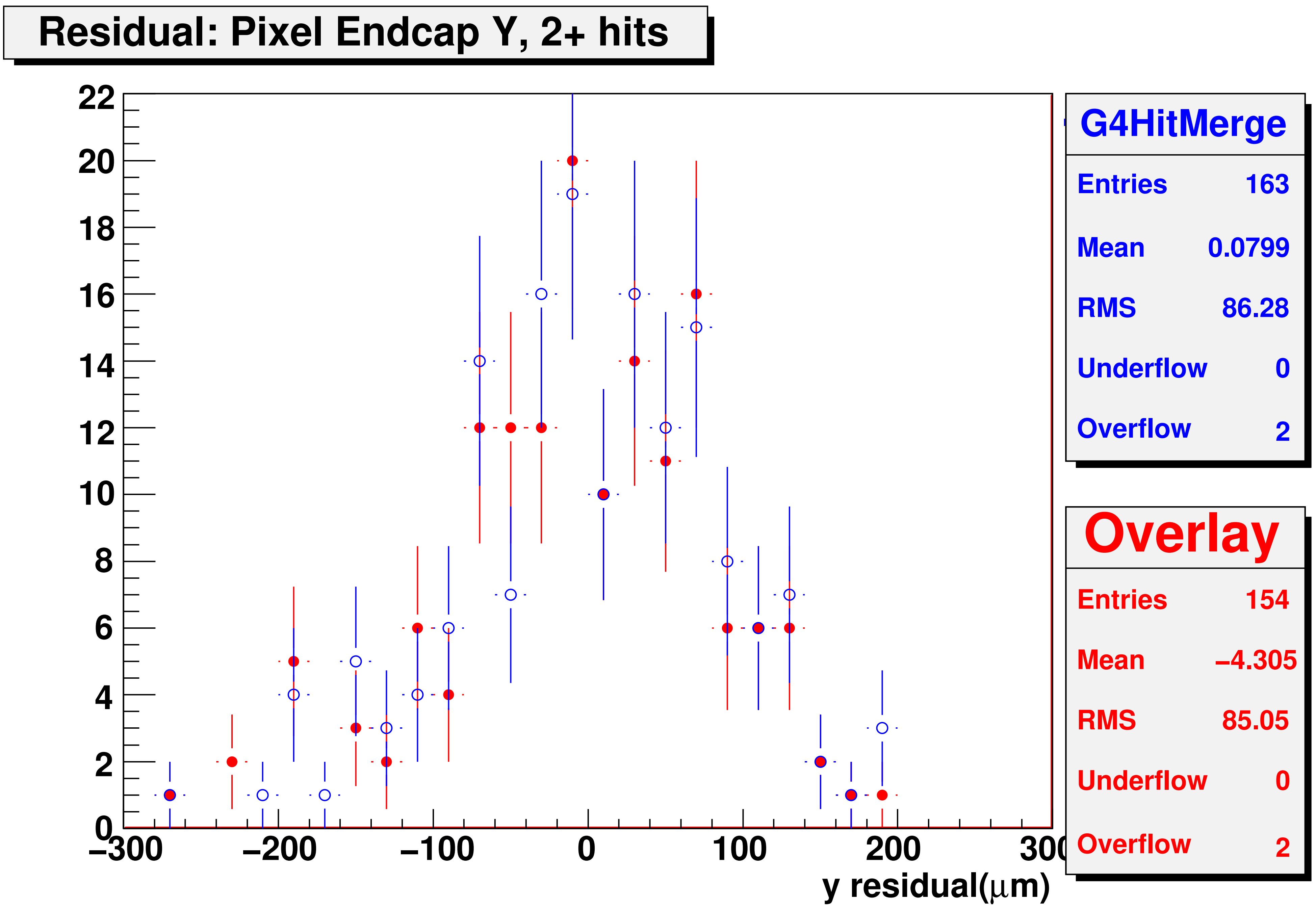


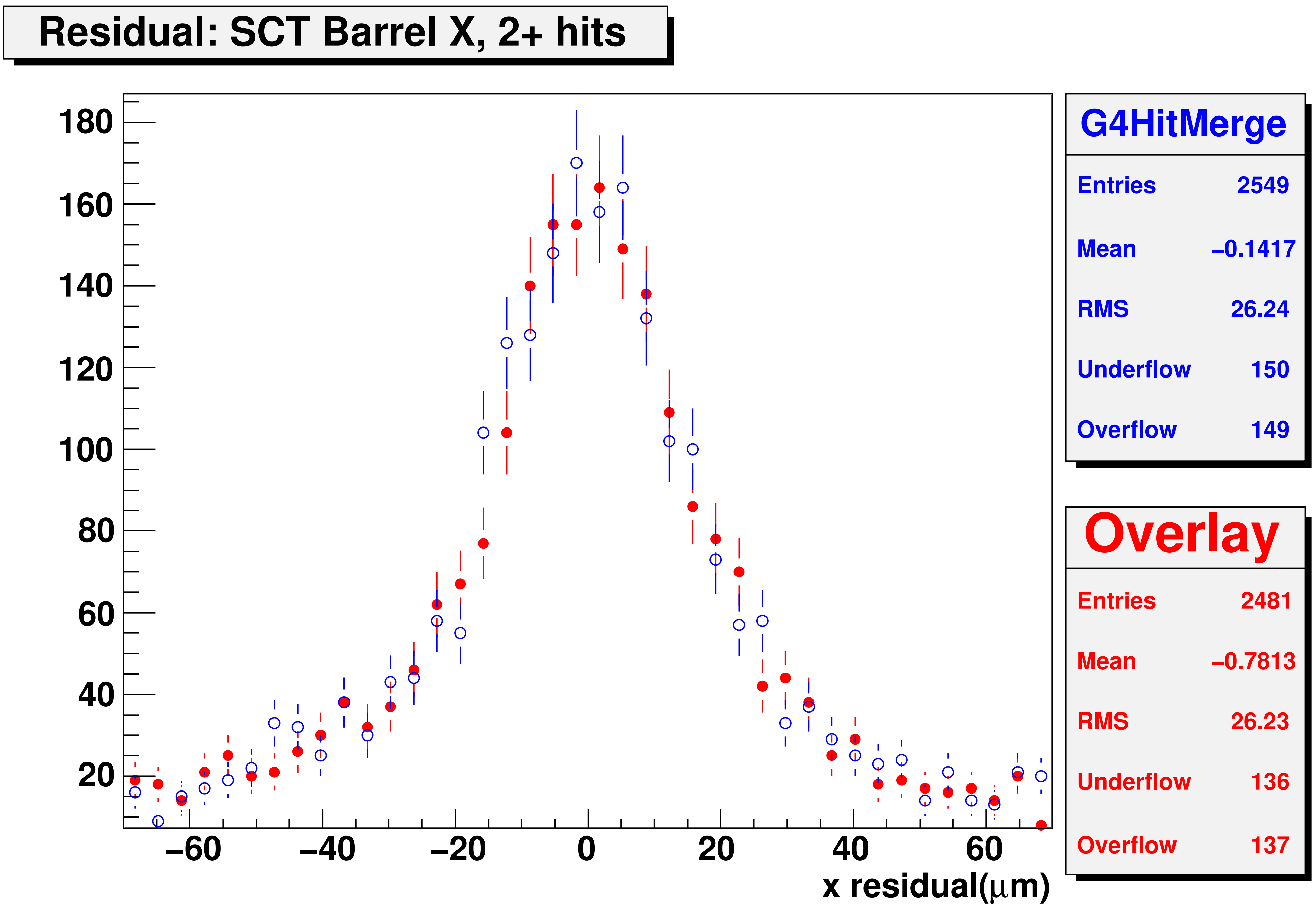
Residual: SCT Barrel X, 1 hit
300
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 6493
Mean −0.1029
RMS 26.91
Underflow 257
Overflow 236
Overlay
Entries 6560
Mean −0.343
RMS 27.12
Underflow 279
Overflow 262

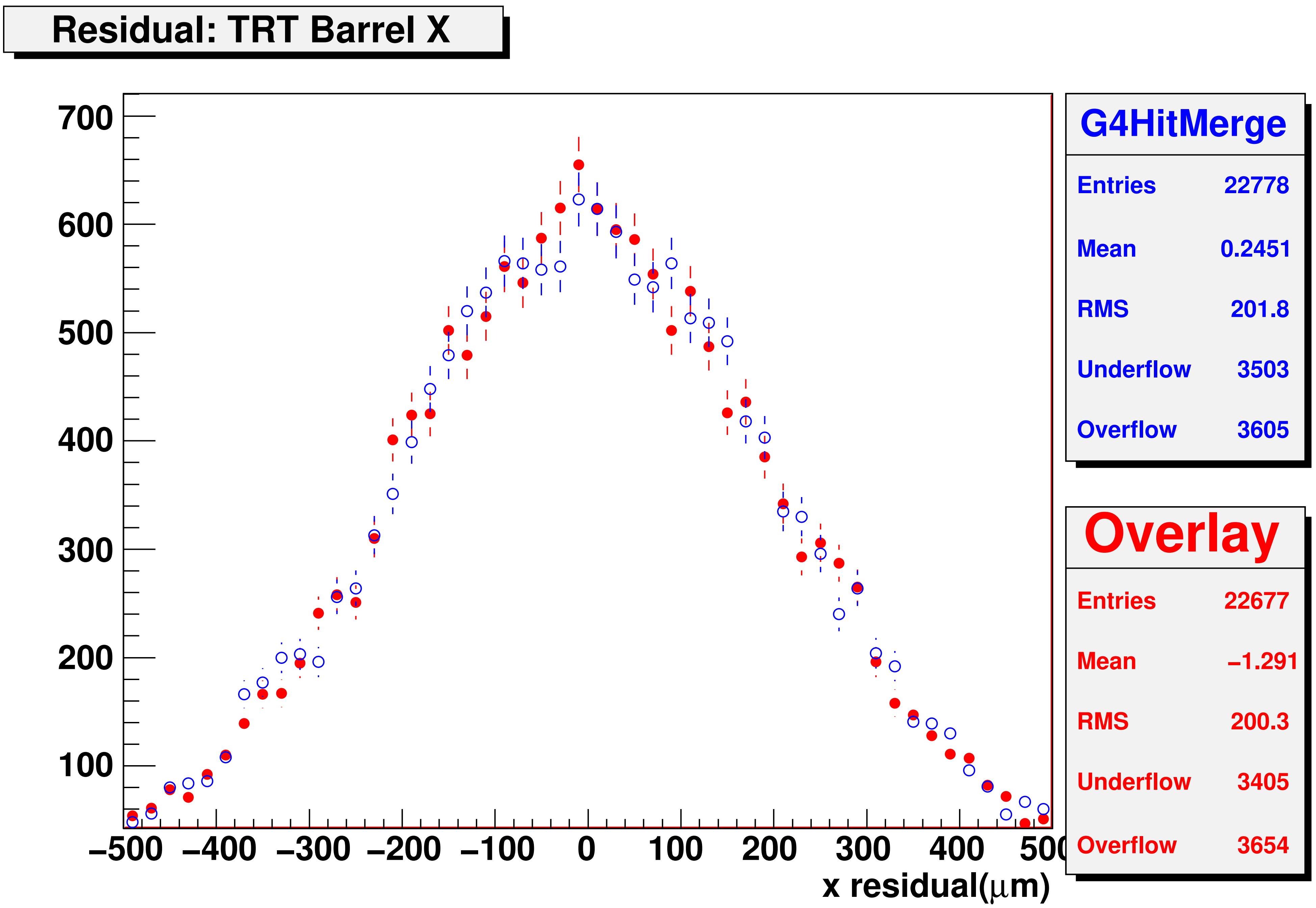

Residual: Pixel Barrel X, 2+ hits
G4HitMerge
Entries 3633
Mean 0.3742
RMS 23.63
Underflow 353
Overflow 386
Overlay
Entries 3609
Mean 0.5931
RMS 23.24
Underflow 337
Overflow 374
250
200
150
100
50
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)



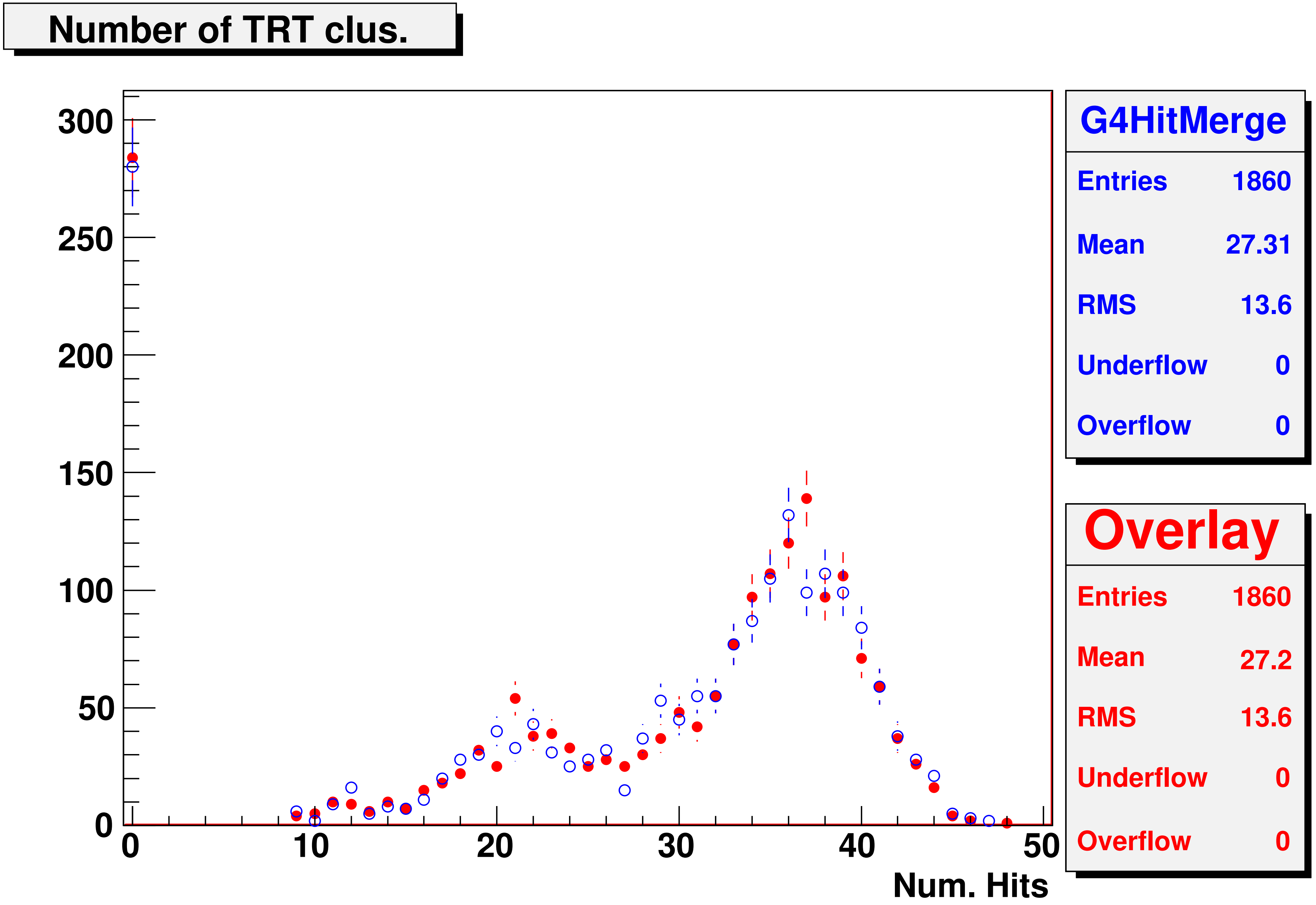
Residual: Pixel Endcap X, 2+ hits
G4HitMerge
Entries 256
Mean 1.629
RMS 17.05
Underflow 17
Overflow 11
Overlay
Entries 248
Mean 1.743
RMS 18.23
Underflow 13
Overflow 10
0
5
10
15
20
25
30
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)


Residual: Pixel Endcap Y, 2+ hits
G4HitMerge
Entries 163
Mean 0.0799
RMS 86.28
Underflow 0
Overflow 2
Overlay
Entries 154
Mean –4.305
RMS 85.05
Underflow 0
Overflow 2
y residual(μm)
0
2
4
6
8
10
12
14
16
18
20
22
–300
–200
–100
0
100
200
300

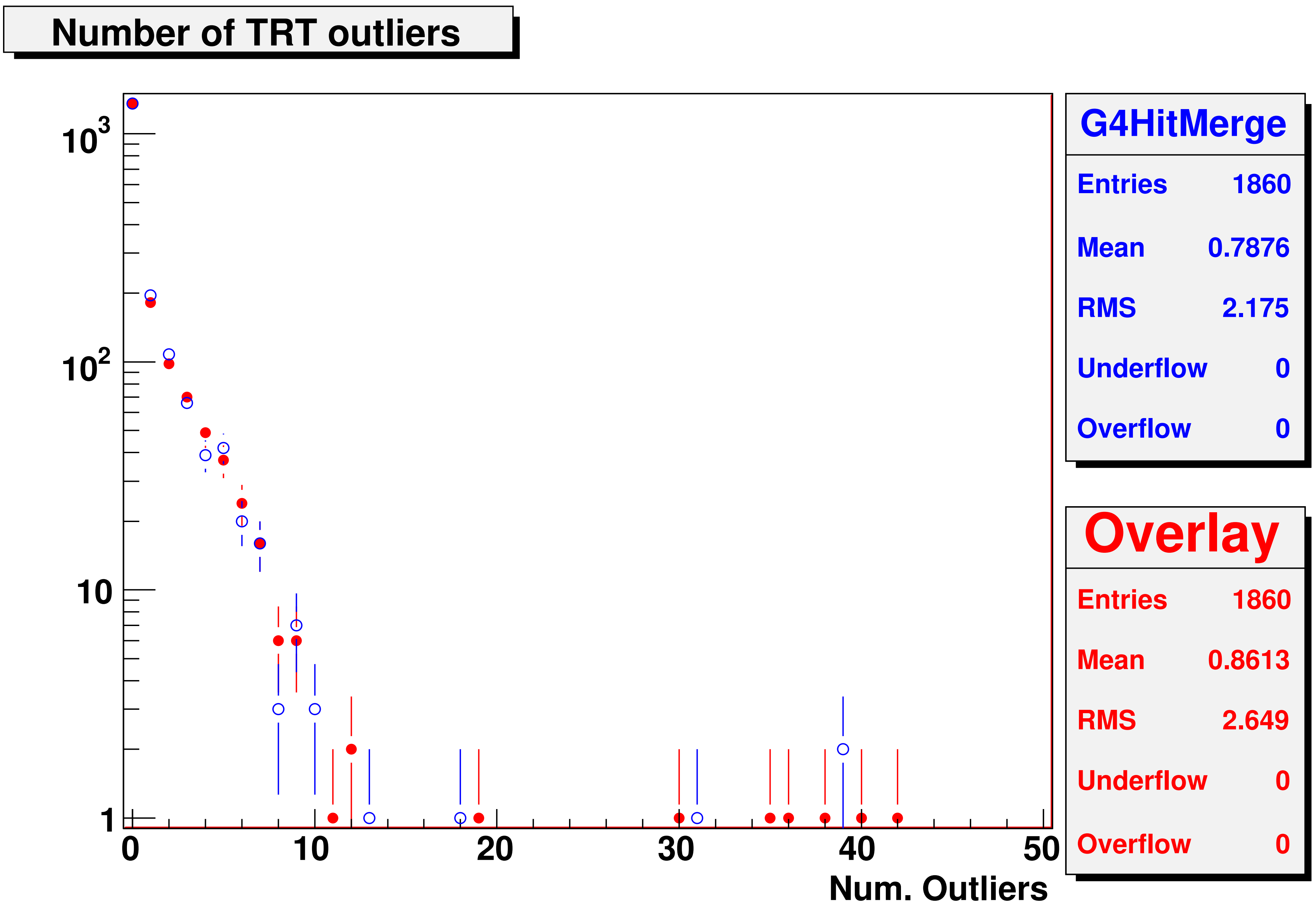

Residual: SCT Barrel X, 2+ hits
G4HitMerge
Entries 2549
Mean −0.1417
RMS 26.24
Underflow 150
Overflow 149
Overlay
Entries 2481
Mean −0.7813
RMS 26.23
Underflow 136
Overflow 137
180
160
140
120
100
80
60
40
20
−60
−40
−20
0
20
40
60
x residual(μm)



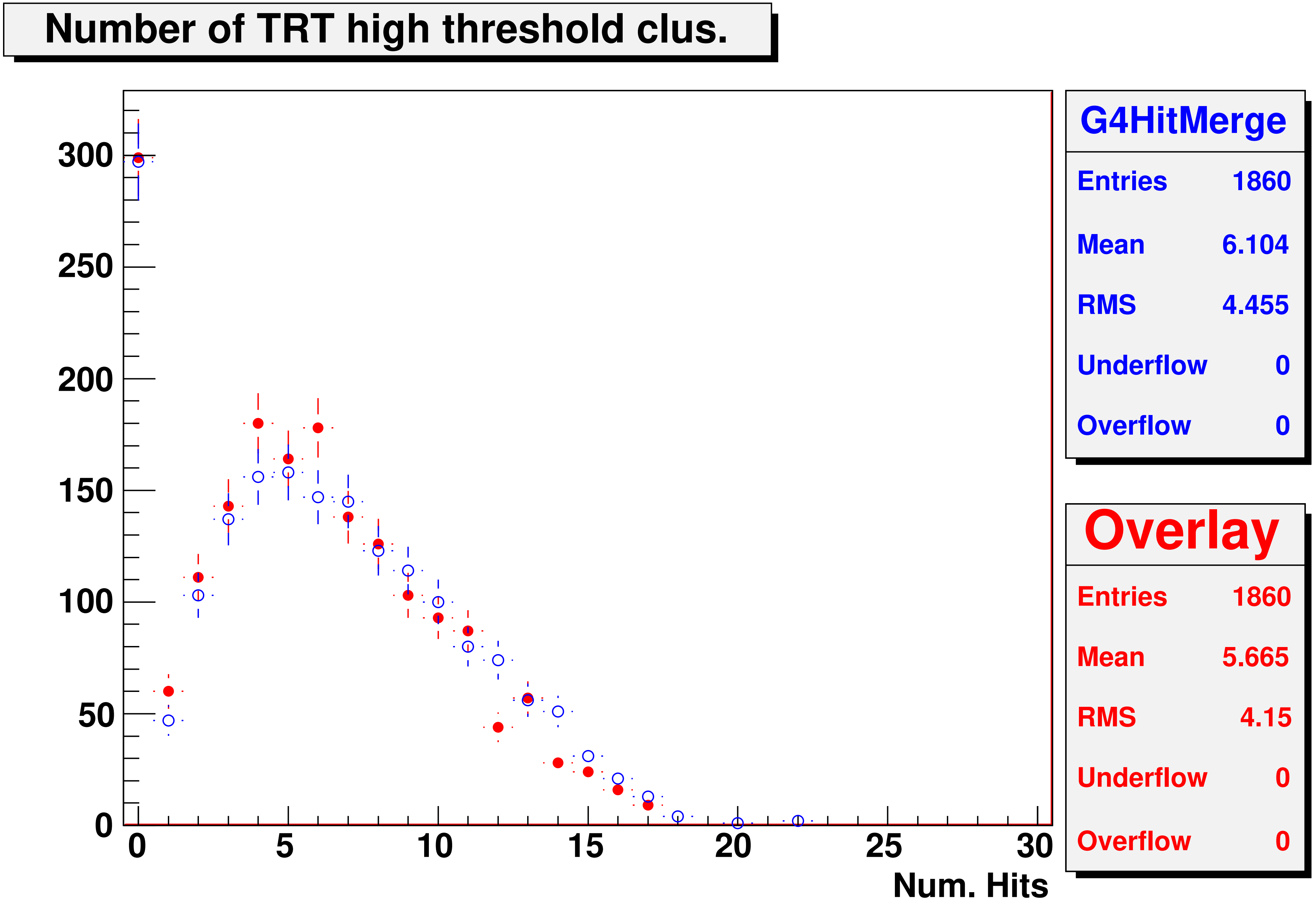
Residual: TRT Barrel X
700
600
500
400
300
200
100
–500 –400 –300 –200 –100 0 100 200 300 400 500
x residual(μm)
G4HitMerge
Entries 22778
Mean 0.2451
RMS 201.8
Underflow 3503
Overflow 3605
Overlay
Entries 22677
Mean –1.291
RMS 200.3
Underflow 3405
Overflow 3654



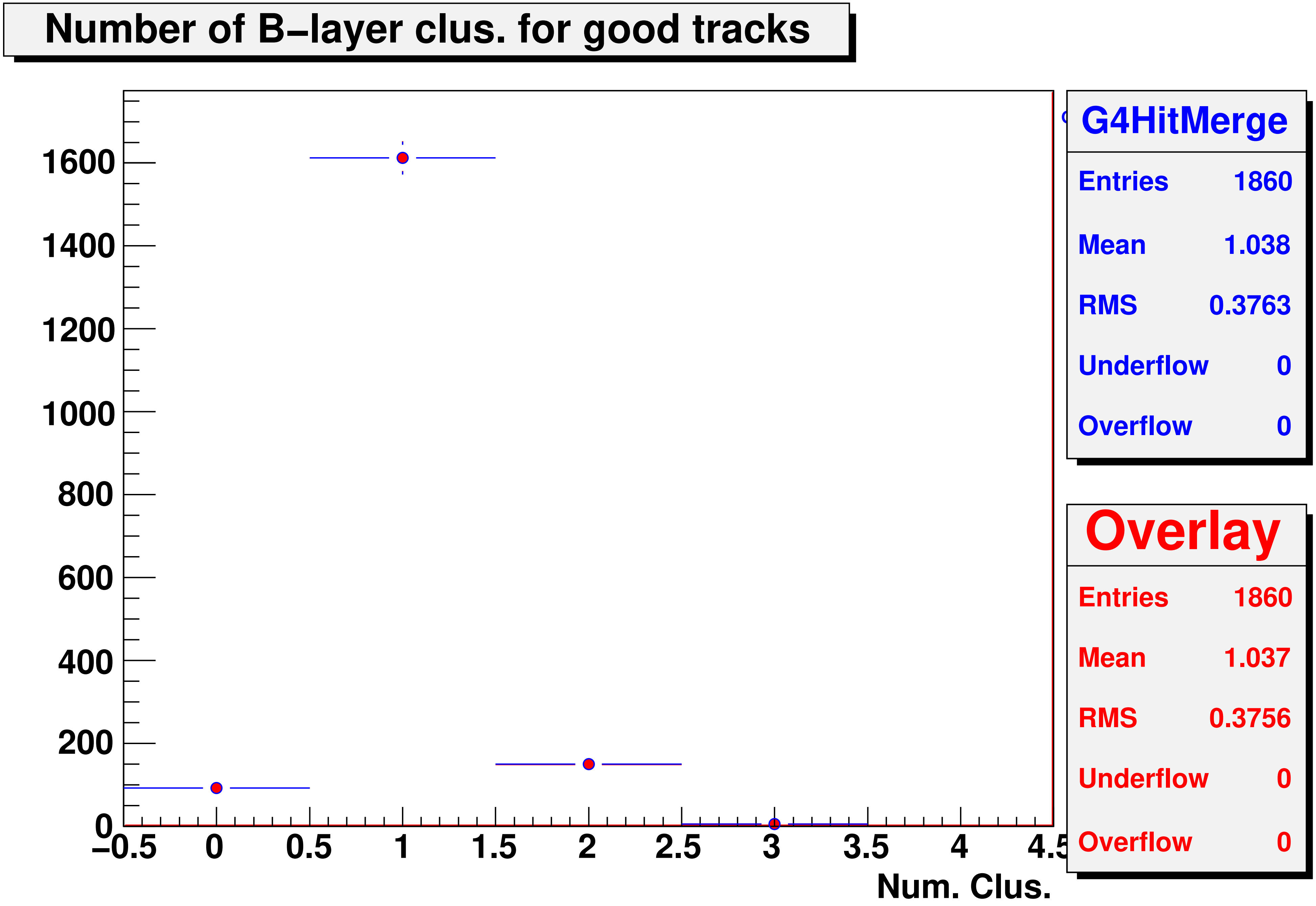
Number of TRT clus.
300
250
200
150
100
50
0
0
10
20
30
40
50
Num. Hits
G4HitMerge
Entries 1860
Mean 27.31
RMS 13.6
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 27.2
RMS 13.6
Underflow 0
Overflow 0

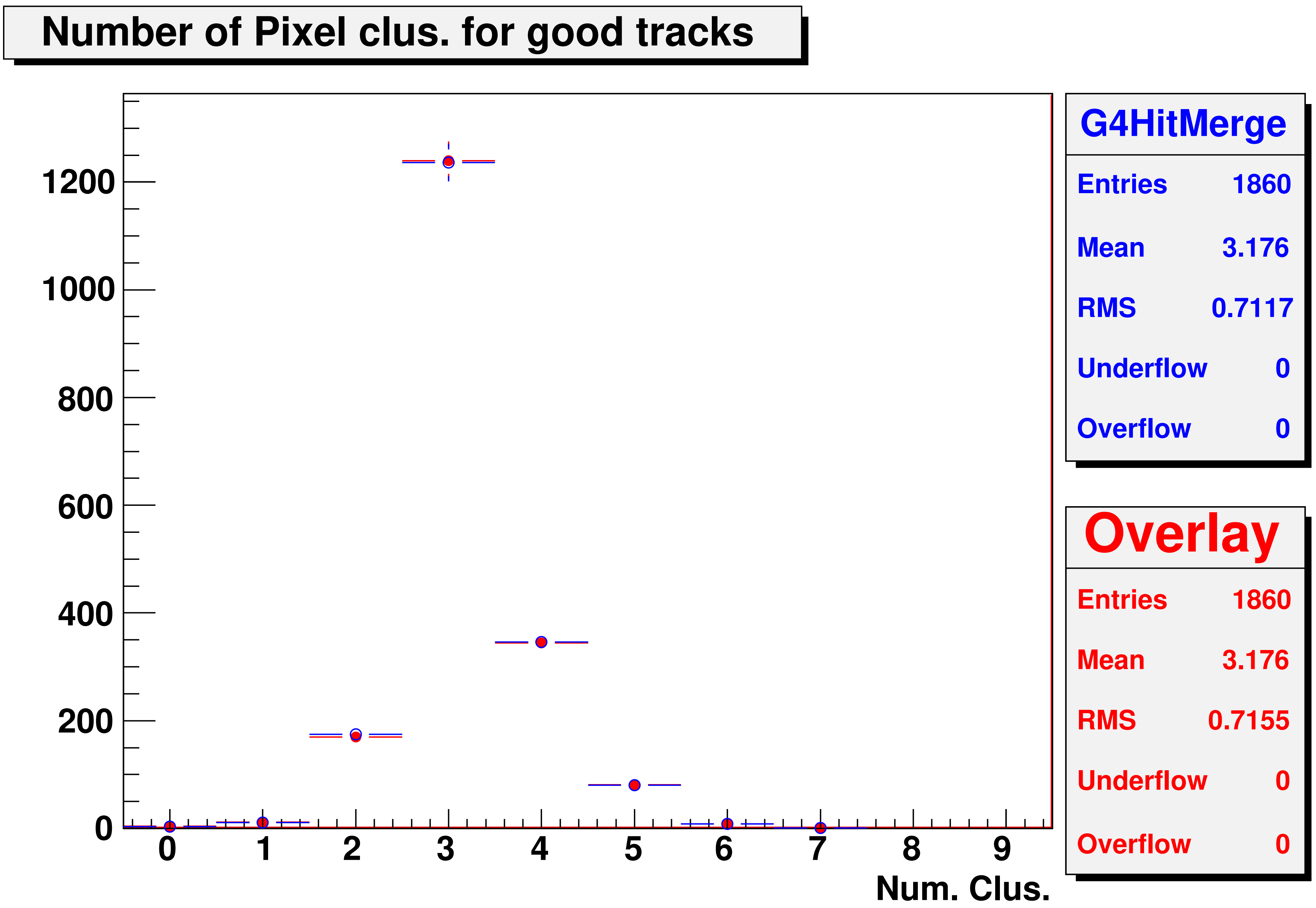


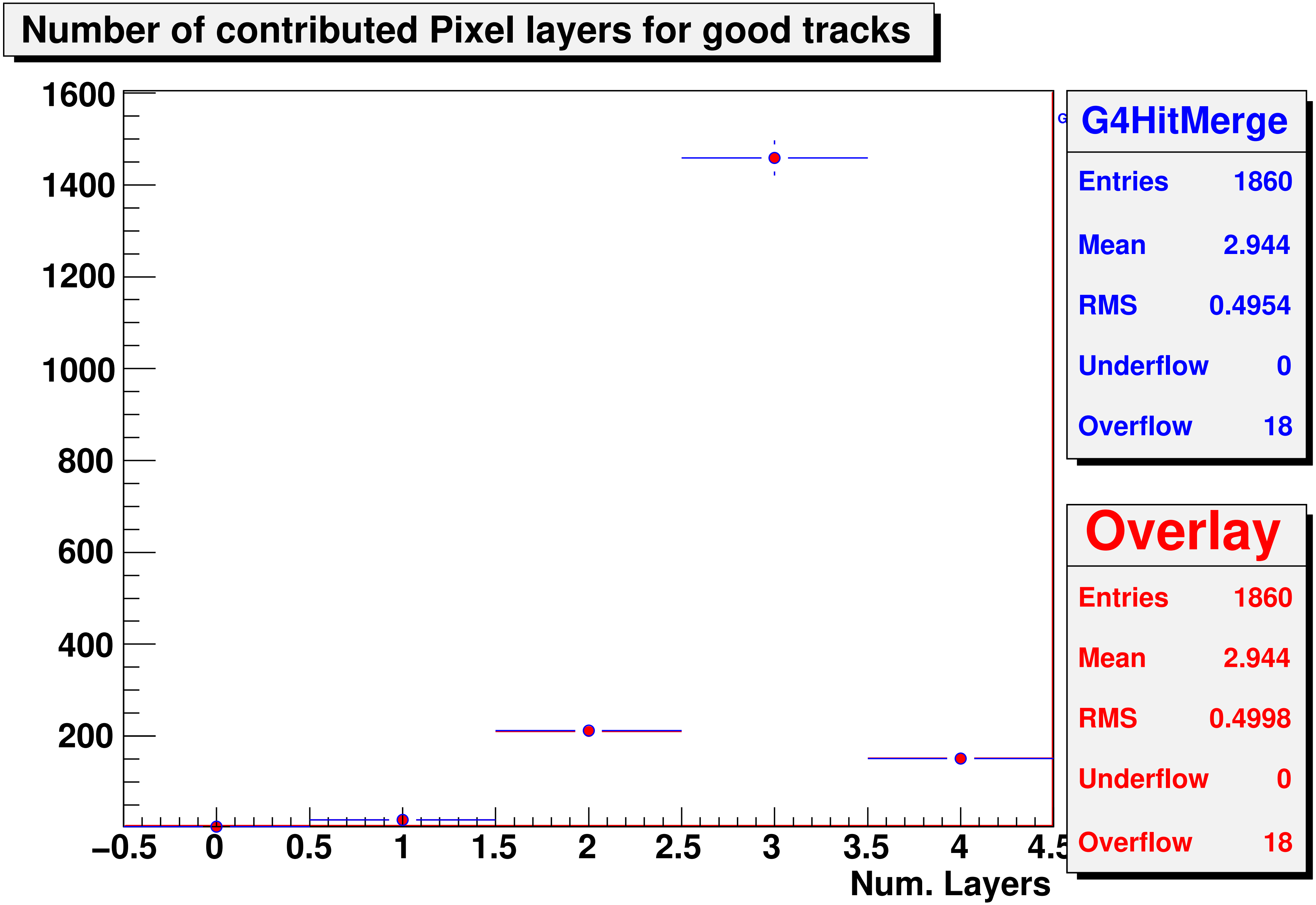
Number of TRT outliers
G4HitMerge
Entries 1860
Mean 0.7876
RMS 2.175
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 0.8613
RMS 2.649
Underflow 0
Overflow 0
10^3
10^2
10
1
0
10
20
30
40
50
Num. Outliers



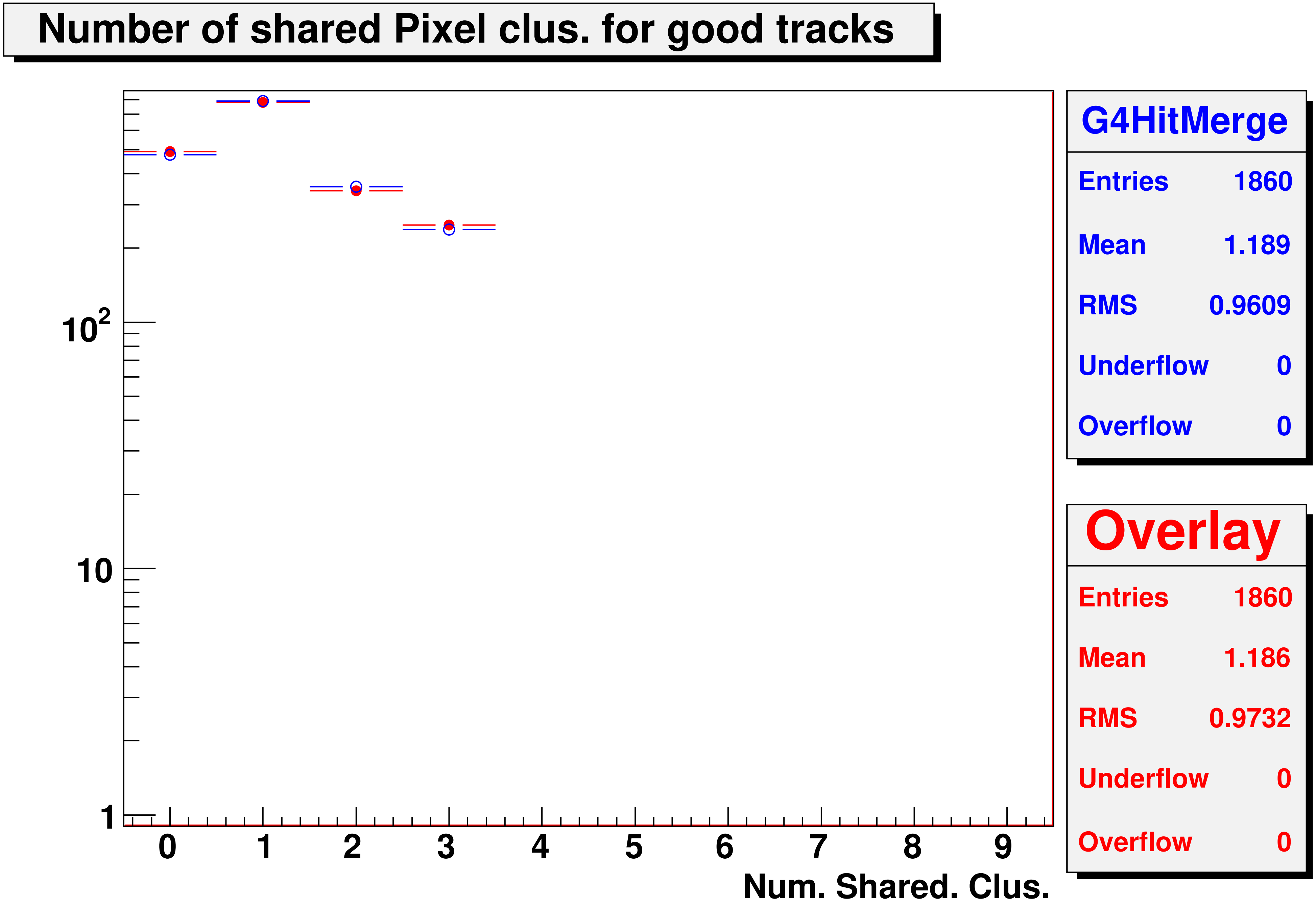
Number of TRT high threshold clus.
G4HitMerge
Entries 1860
Mean 6.104
RMS 4.455
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 5.665
RMS 4.15
Underflow 0
Overflow 0
0
50
100
150
200
250
300
0
5
10
15
20
25
30
Num. Hits

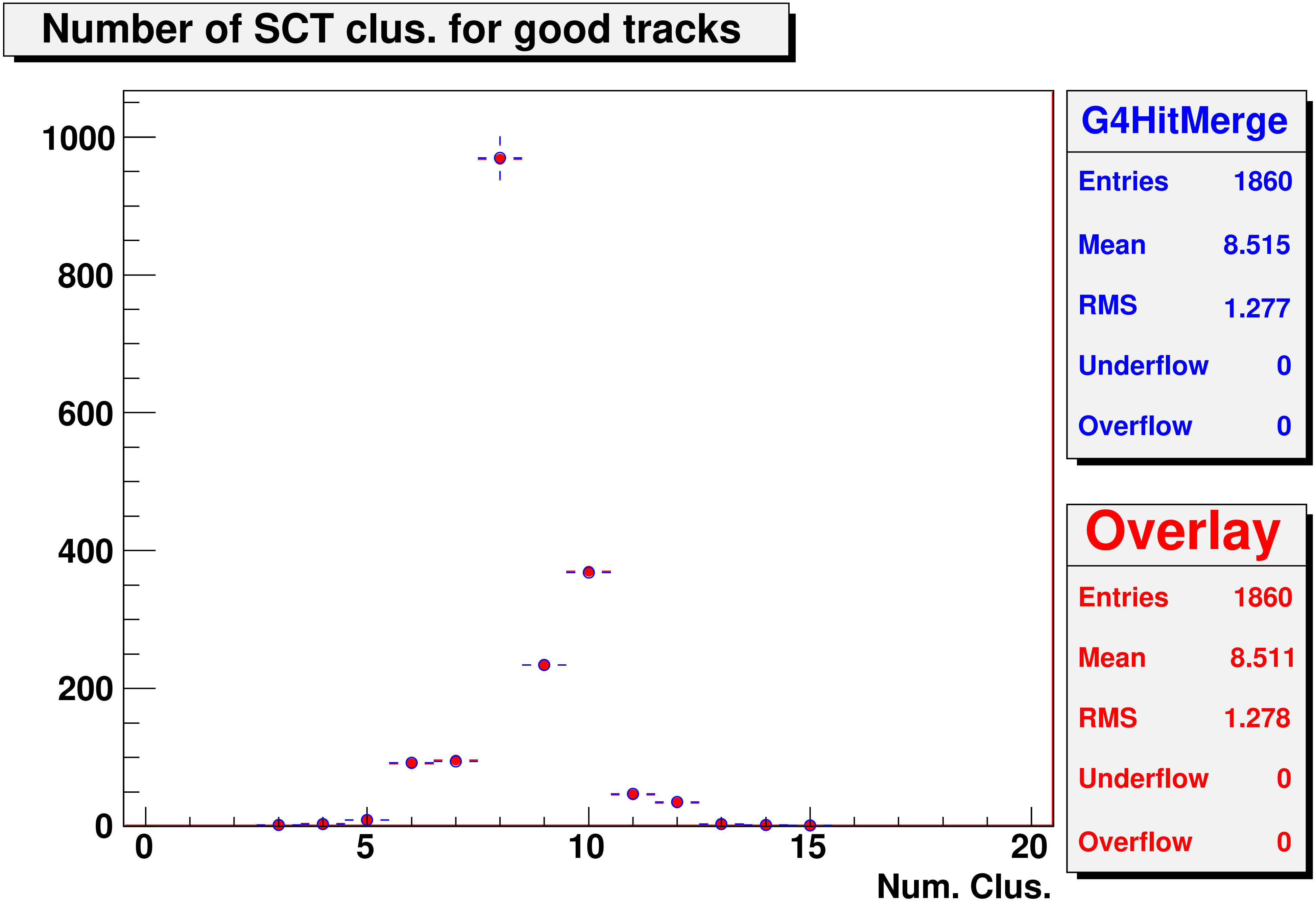

Number of B–layer clus. for good tracks
1600
1400
1200
1000
800
600
400
200
0
–0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Clus.
G4HitMerge
Entries 1860
Mean 1.038
RMS 0.3763
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 1.037
RMS 0.3756
Underflow 0
Overflow 0


Number of Pixel clus. for good tracks
G4HitMerge
Entries 1860
Mean 3.176
RMS 0.7117
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 3.176
RMS 0.7155
Underflow 0
Overflow 0
0
200
400
600
800
1000
1200
0 1 2 3 4 5 6 7 8 9
Num. Clus.

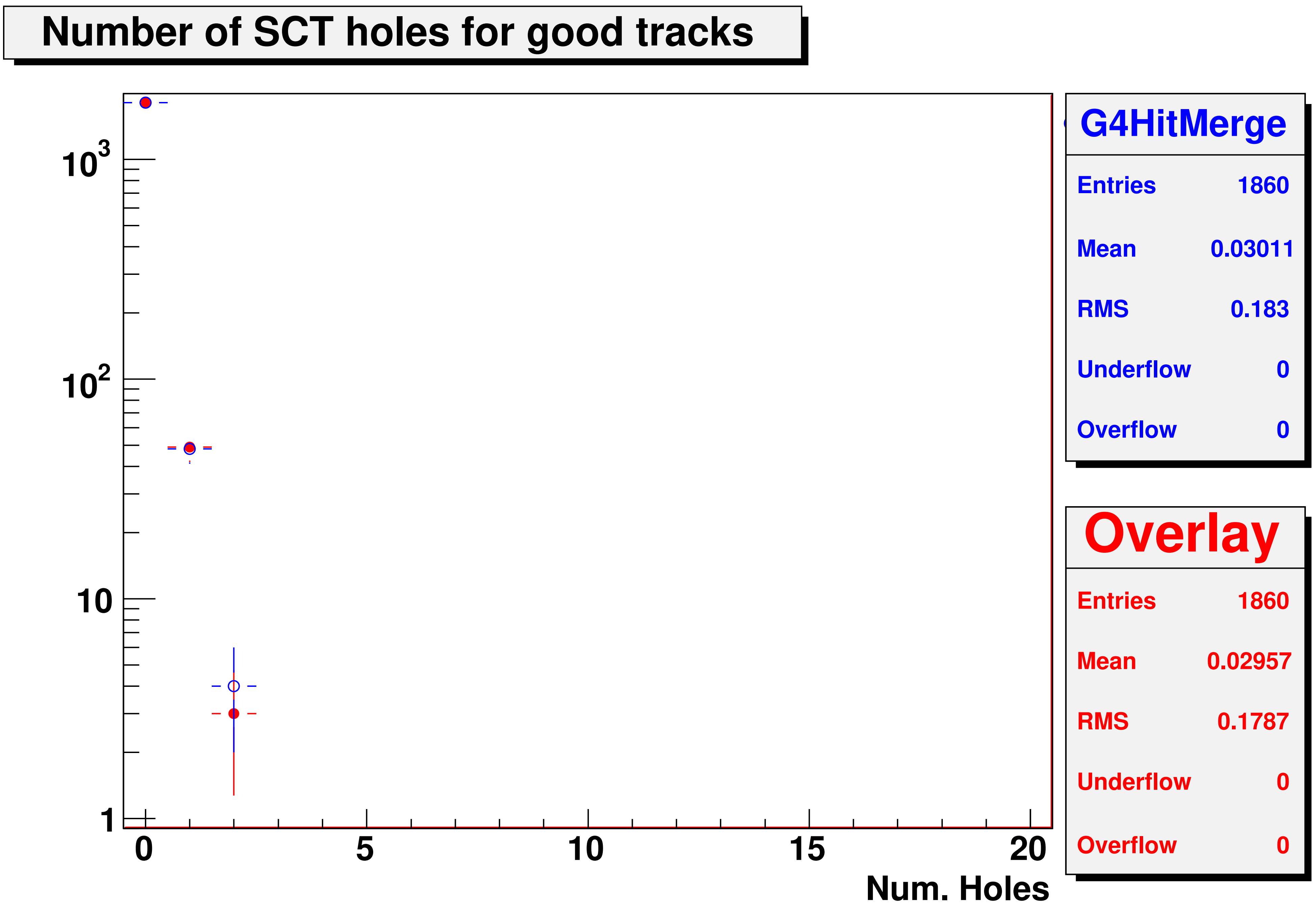


Number of contributed Pixel layers for good tracks
1600
1400
1200
1000
800
600
400
200
–0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Layers
G4HitMerge
Entries 1860
Mean 2.944
RMS 0.4954
Underflow 0
Overflow 18
Overlay
Entries 1860
Mean 2.944
RMS 0.4998
Underflow 0
Overflow 18

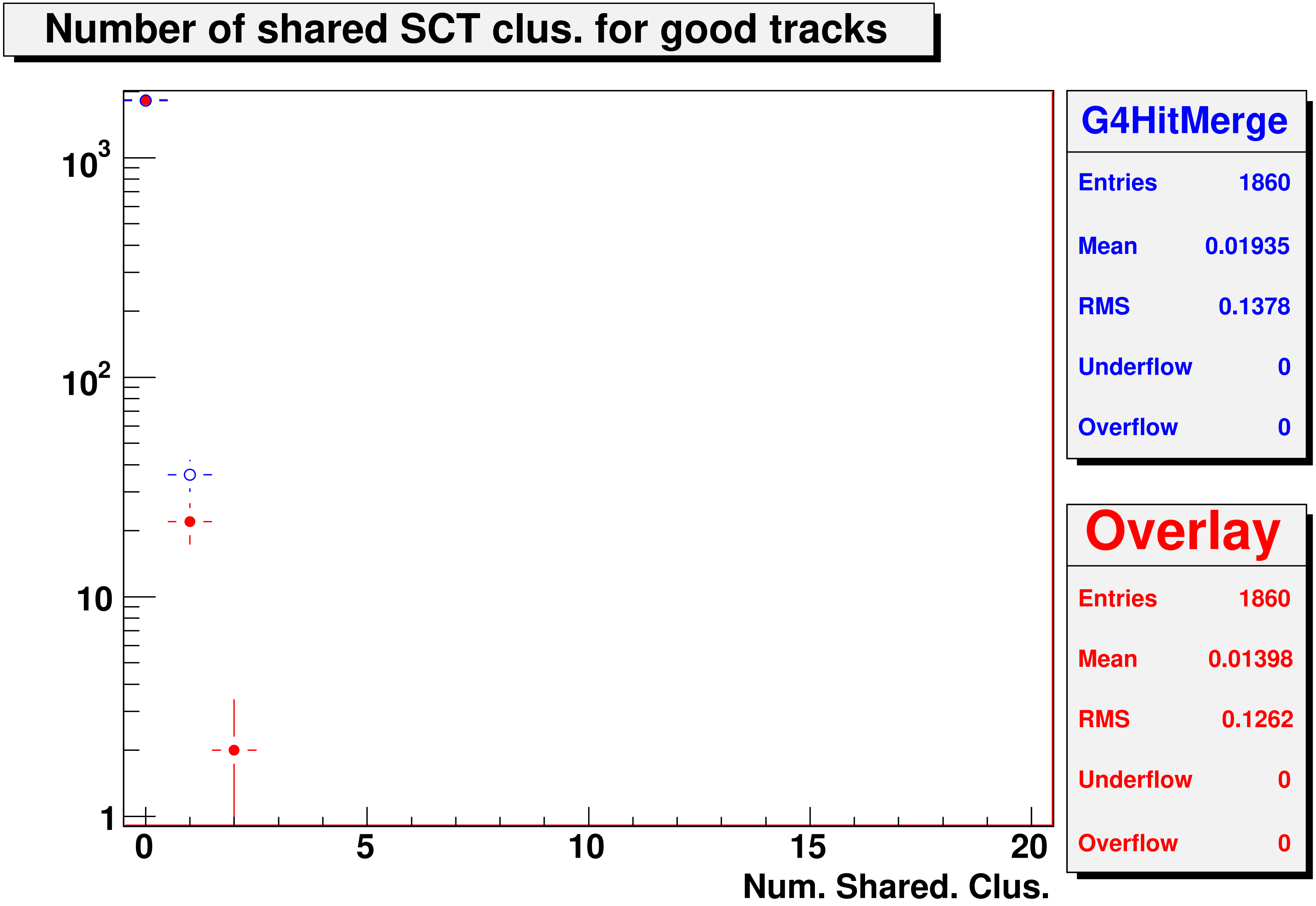

Number of shared Pixel clus. for good tracks
G4HitMerge
Entries 1860
Mean 1.189
RMS 0.9609
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 1.186
RMS 0.9732
Underflow 0
Overflow 0
10^2
10
1
0
1
2
3
4
5
6
7
8
9
Num. Shared. Clus.

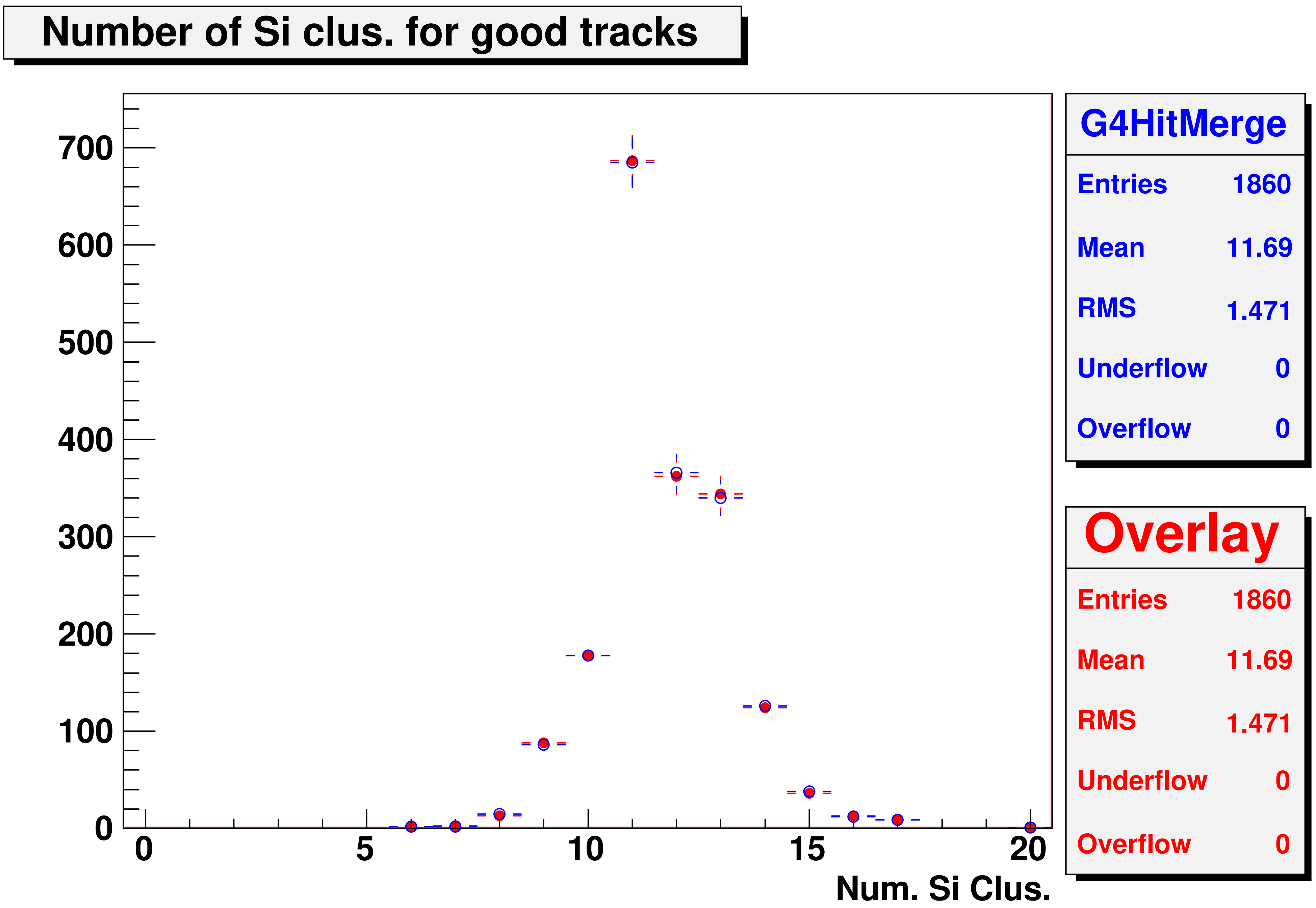


Number of SCT clus. for good tracks
1000
800
600
400
200
0
0
5
10
15
20
Num. Clus.
G4HitMerge
Entries 1860
Mean 8.515
RMS 1.277
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 8.511
RMS 1.278
Underflow 0
Overflow 0

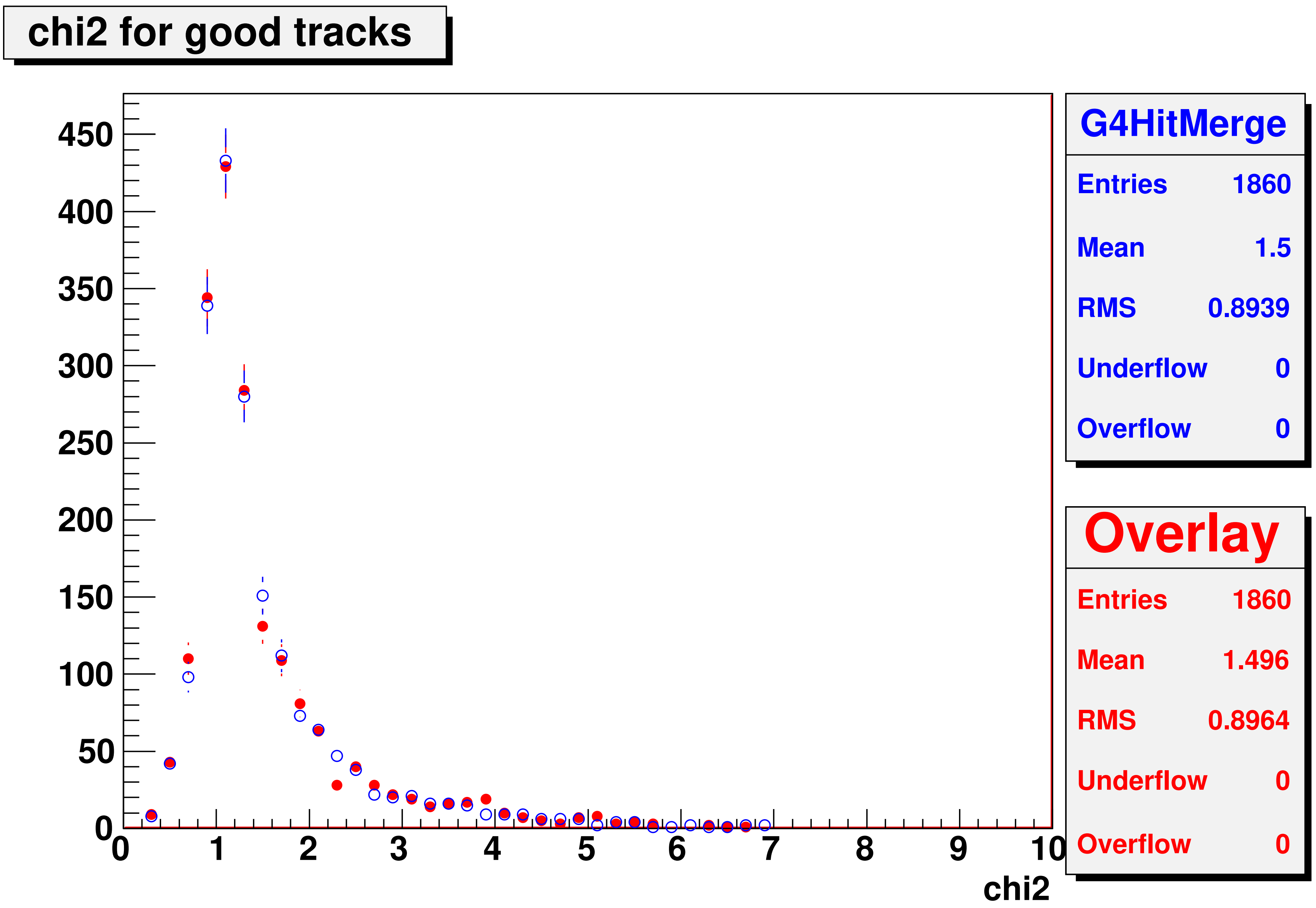


Number of SCT holes for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Holes
G4HitMerge
Entries 1860
Mean 0.03011
RMS 0.183
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 0.02957
RMS 0.1787
Underflow 0
Overflow 0

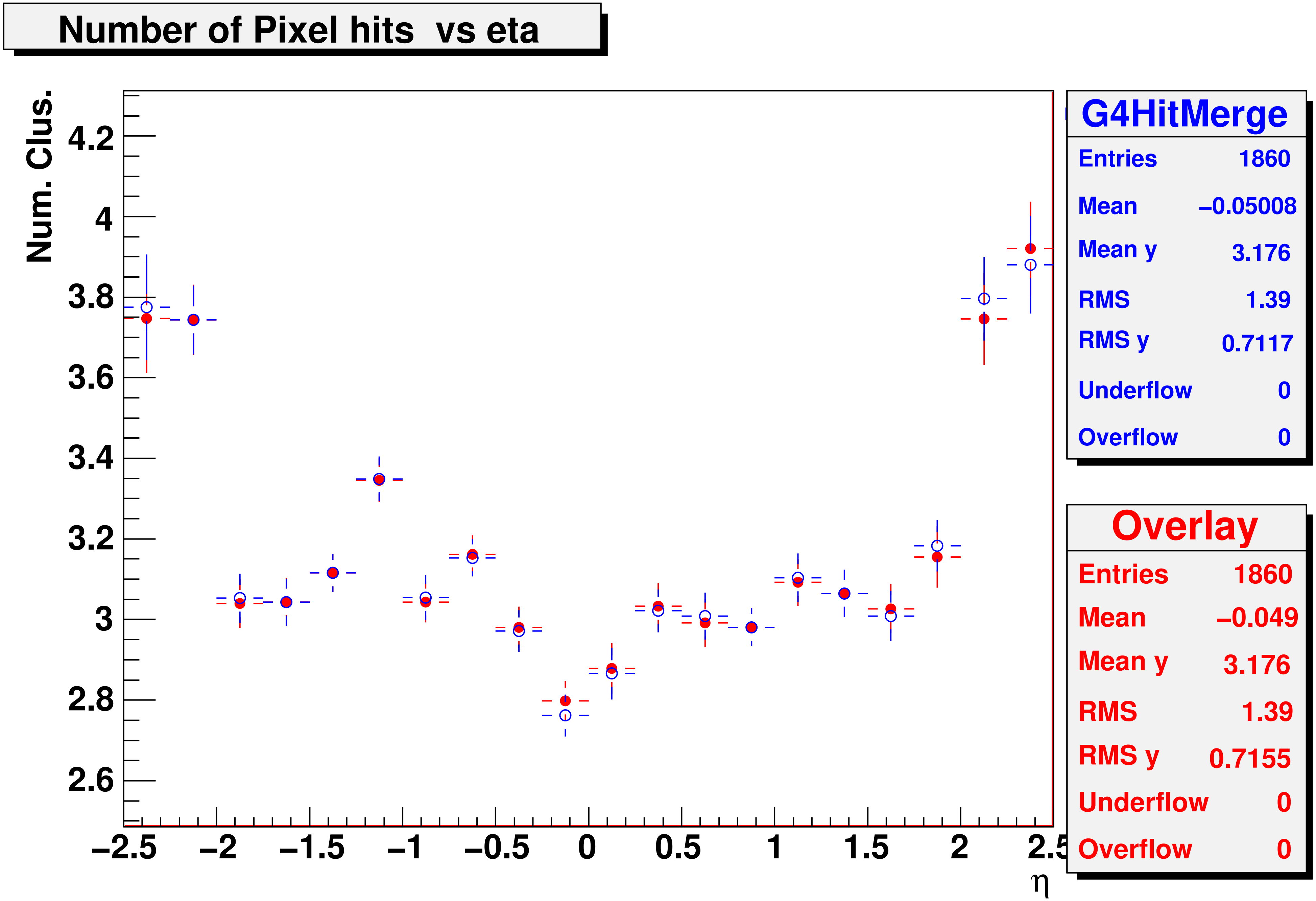

Number of shared SCT clus. for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Shared. Clus.
G4HitMerge
Entries 1860
Mean 0.01935
RMS 0.1378
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 0.01398
RMS 0.1262
Underflow 0
Overflow 0



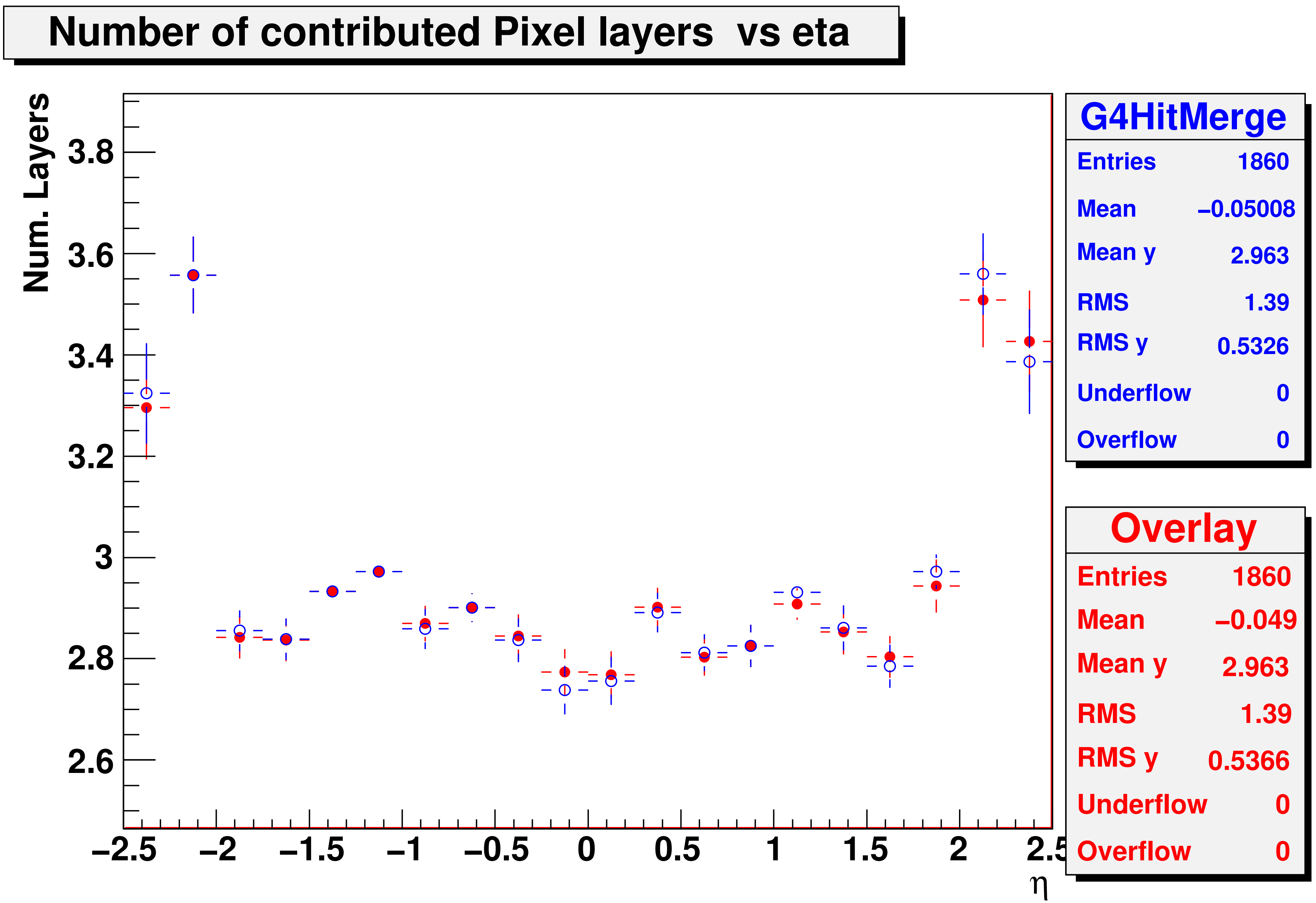
Number of Si clus. for good tracks
700
600
500
400
300
200
100
0
0
5
10
15
20
Num. Si Clus.
G4HitMerge
Entries 1860
Mean 11.69
RMS 1.471
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 11.69
RMS 1.471
Underflow 0
Overflow 0



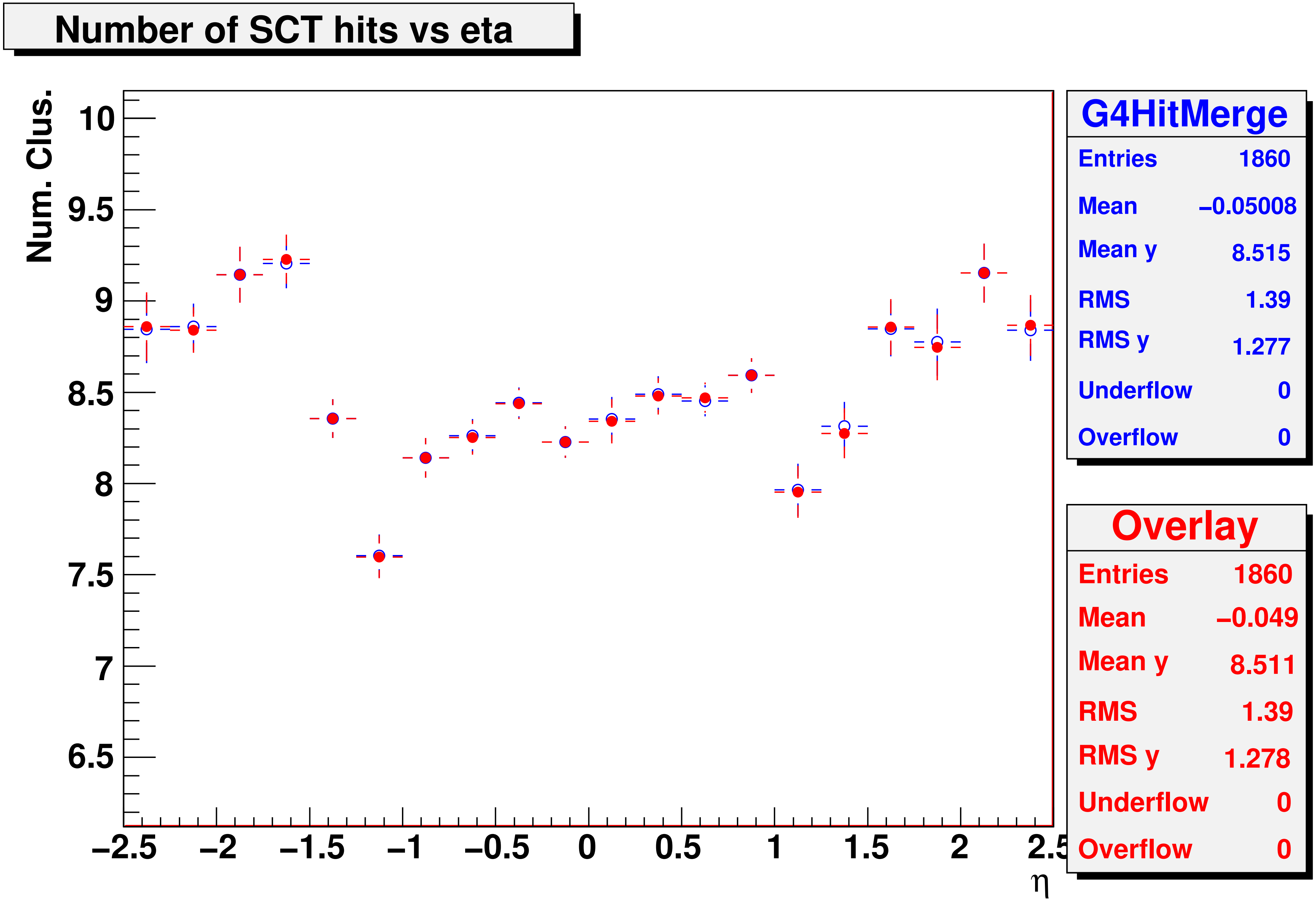
chi2 for good tracks
G4HitMerge
Entries 1860
Mean 1.5
RMS 0.8939
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean 1.496
RMS 0.8964
Underflow 0
Overflow 0
chi2
0
50
100
150
200
250
300
350
400
450
0
1
2
3
4
5
6
7
8
9
10



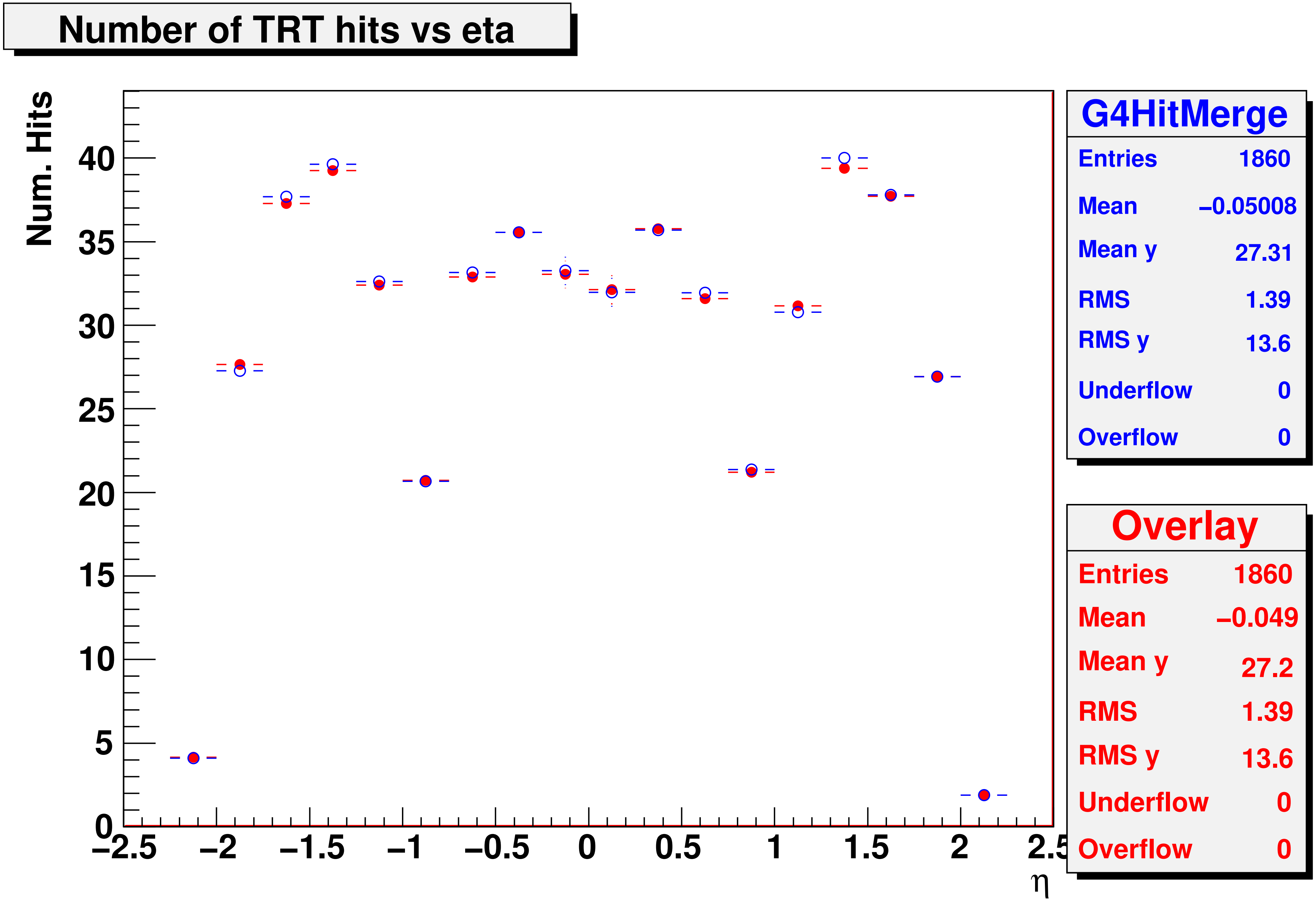
Number of Pixel hits vs eta
Num. Clus.
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1860
Mean −0.05008
Mean y 3.176
RMS 1.39
RMS y 0.7117
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean −0.049
Mean y 3.176
RMS 1.39
RMS y 0.7155
Underflow 0
Overflow 0



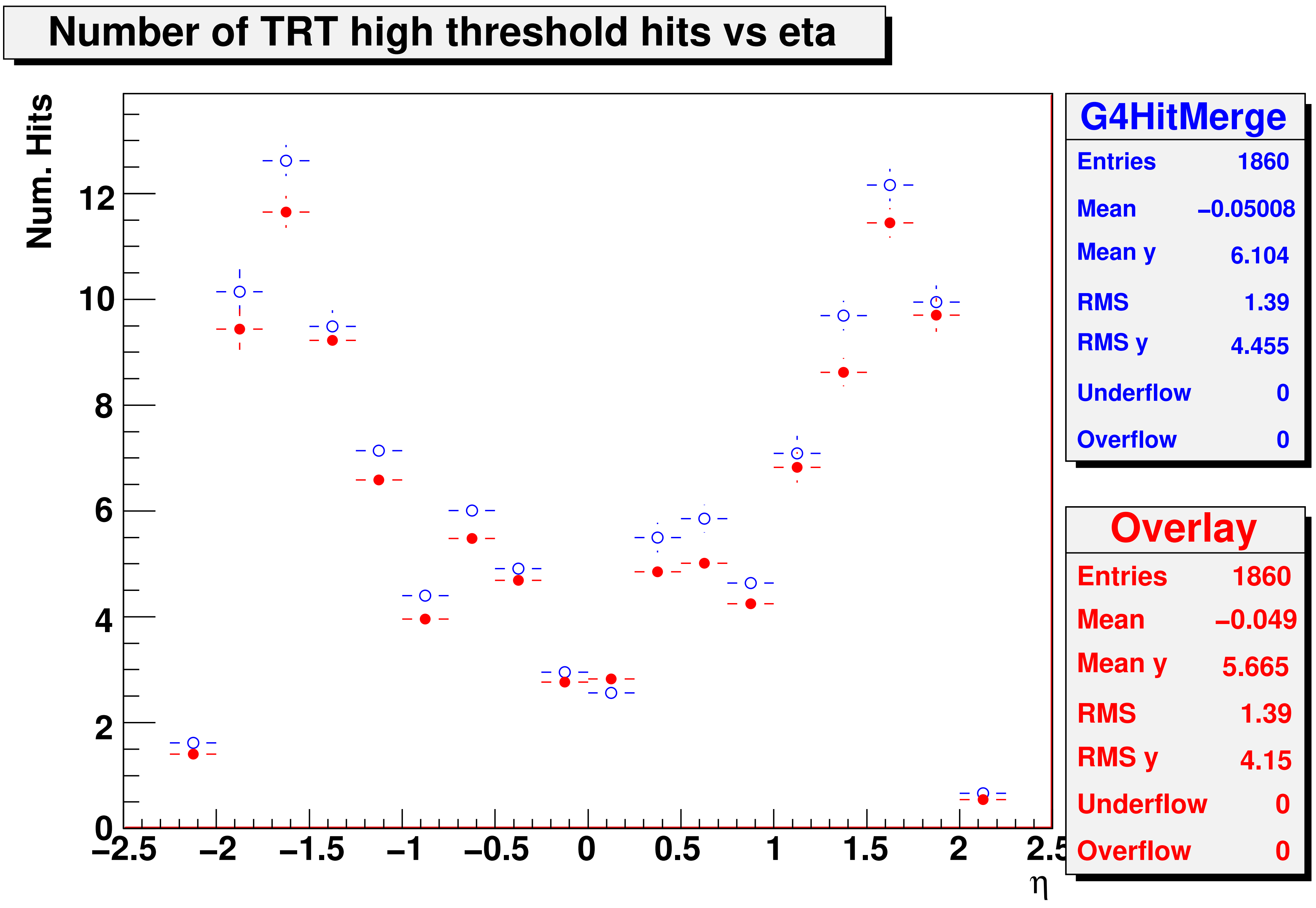
Number of contributed Pixel layers vs eta
Num. Layers
3.8
3.6
3.4
3.2
3
2.8
2.6
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1860
Mean -0.05008
Mean y 2.963
RMS 1.39
RMS y 0.5326
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean -0.049
Mean y 2.963
RMS 1.39
RMS y 0.5366
Underflow 0
Overflow 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 1860
Mean −0.05008
Mean y 8.515
RMS 1.39
RMS y 1.277
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean −0.049
Mean y 8.511
RMS 1.39
RMS y 1.278
Underflow 0
Overflow 0



Number of TRT hits vs eta
Num. Hits
η
G4HitMerge
Entries 1860
Mean −0.05008
Mean y 27.31
RMS 1.39
RMS y 13.6
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean −0.049
Mean y 27.2
RMS 1.39
RMS y 13.6
Underflow 0
Overflow 0


Number of TRT high threshold hits vs eta
Num. Hits
η
G4HitMerge
Entries 1860
Mean −0.05008
Mean y 6.104
RMS 1.39
RMS y 4.455
Underflow 0
Overflow 0
Overlay
Entries 1860
Mean −0.049
Mean y 5.665
RMS 1.39
RMS y 4.15
Underflow 0
Overflow 0