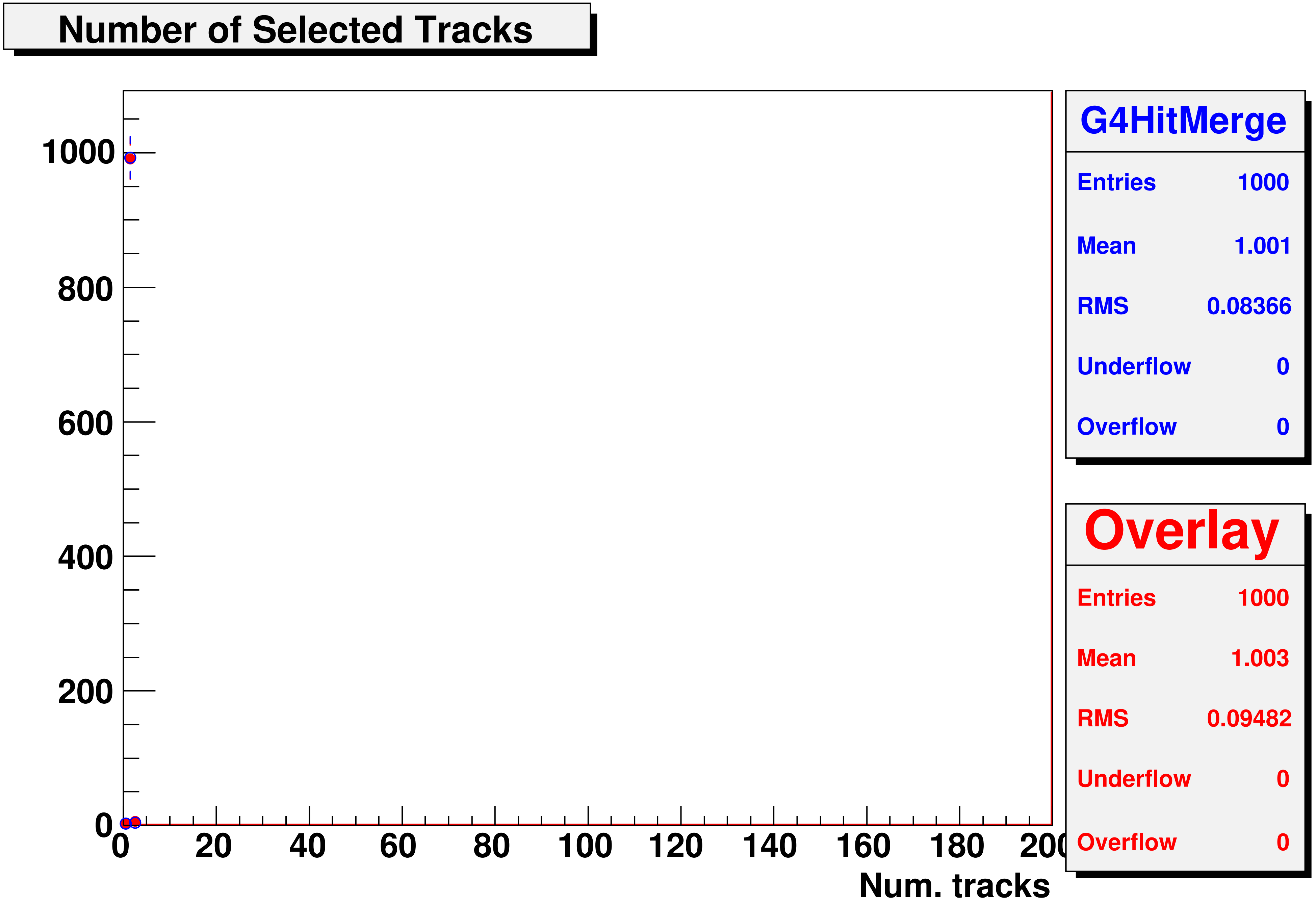
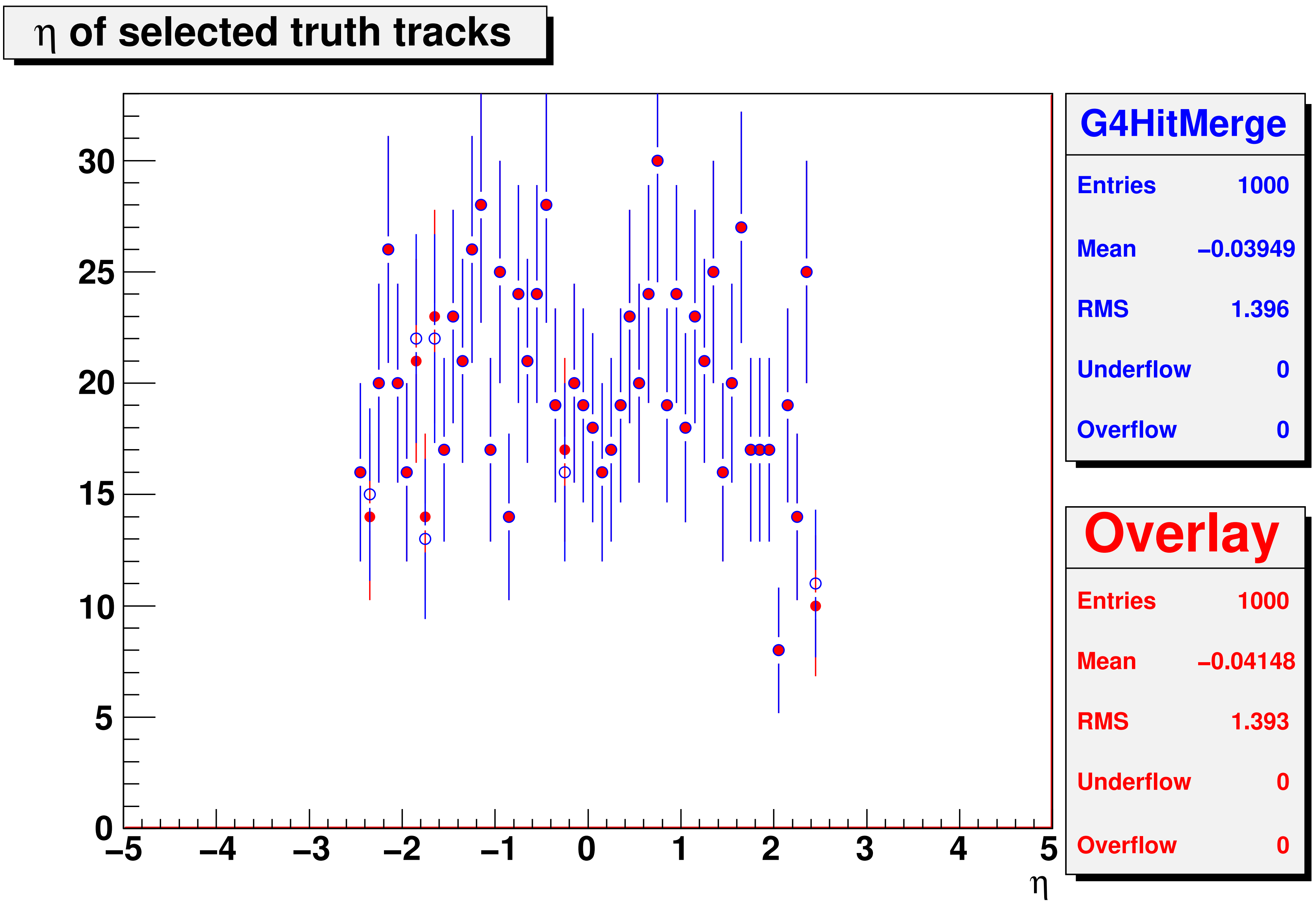
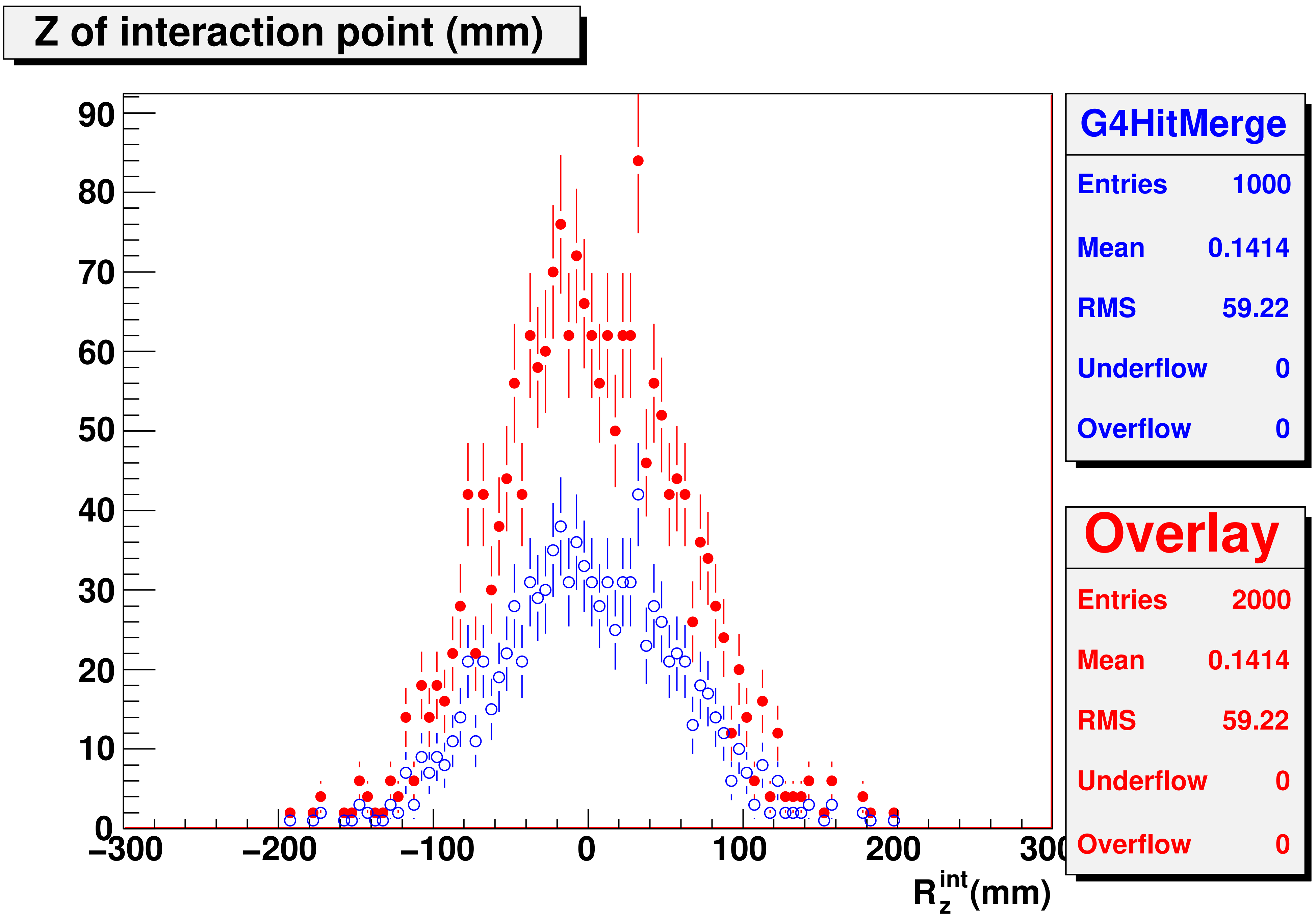
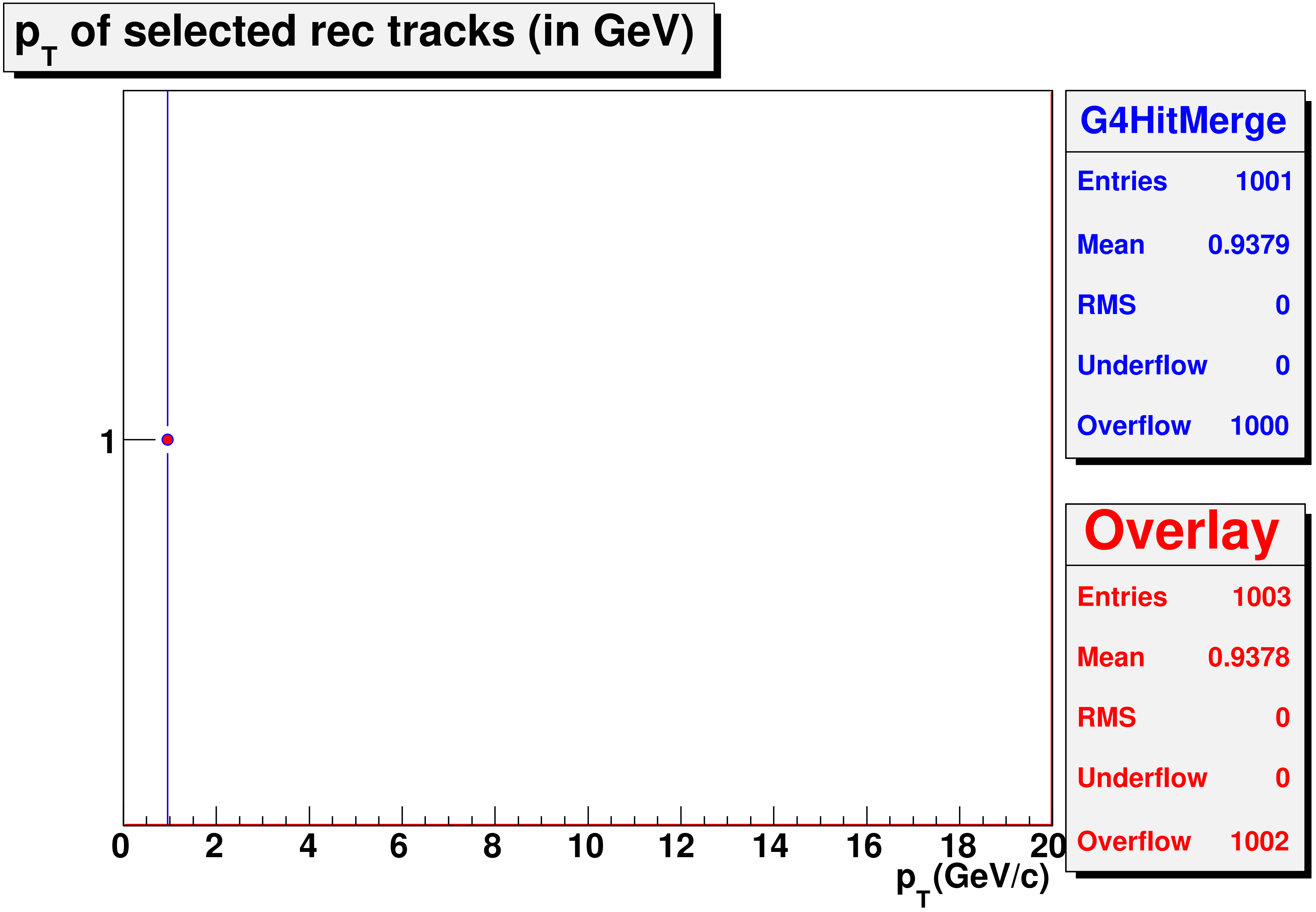

Number of Selected Tracks
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
180
200
Num. tracks
G4HitMerge
Entries 1000
Mean 1.001
RMS 0.08366
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.003
RMS 0.09482
Underflow 0
Overflow 0



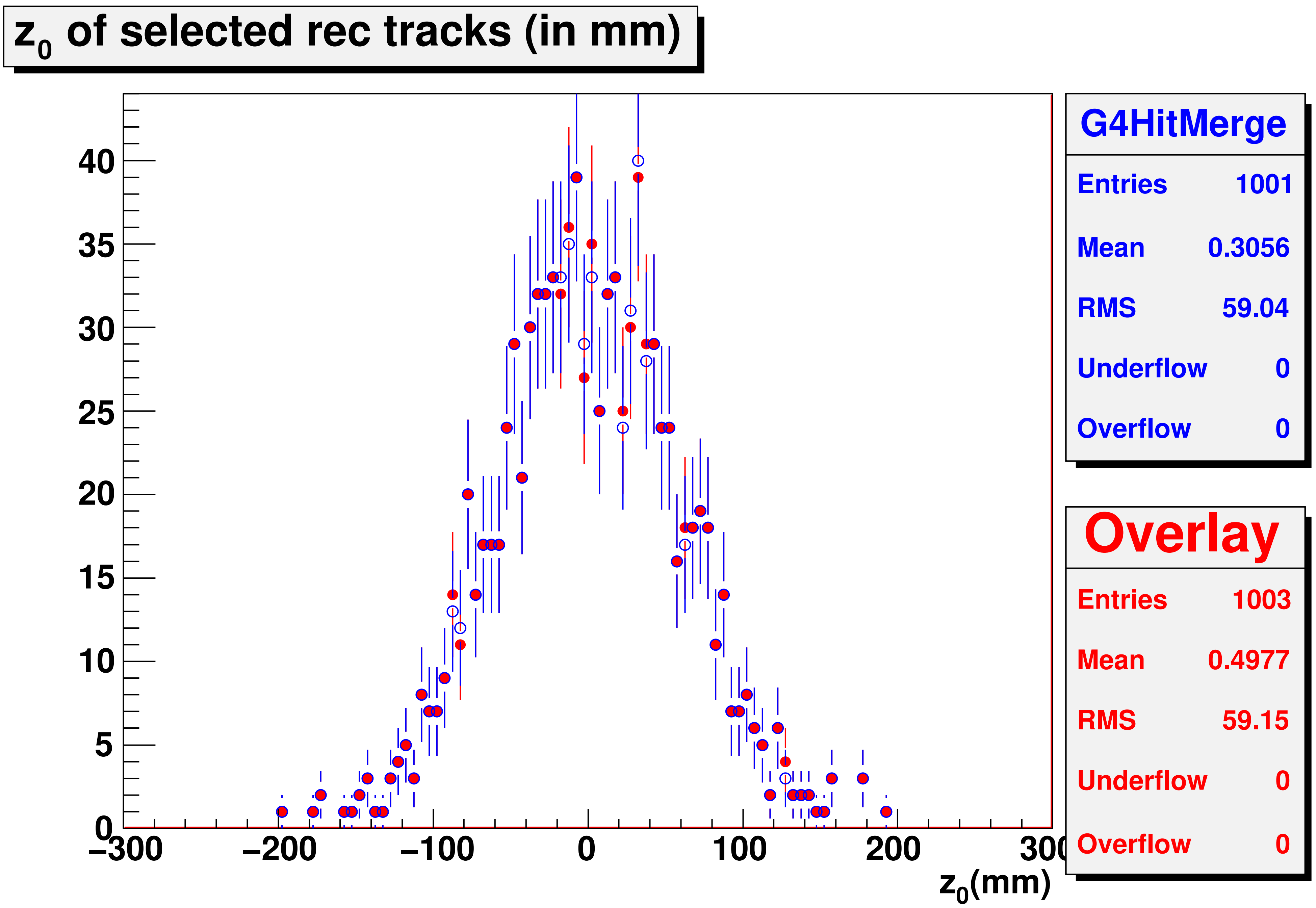
η of selected truth tracks
G4HitMerge
Entries 1000
Mean −0.03949
RMS 1.396
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean −0.04148
RMS 1.393
Underflow 0
Overflow 0
0
5
10
15
20
25
30
−5
−4
−3
−2
−1
0
1
2
3
4
5
η



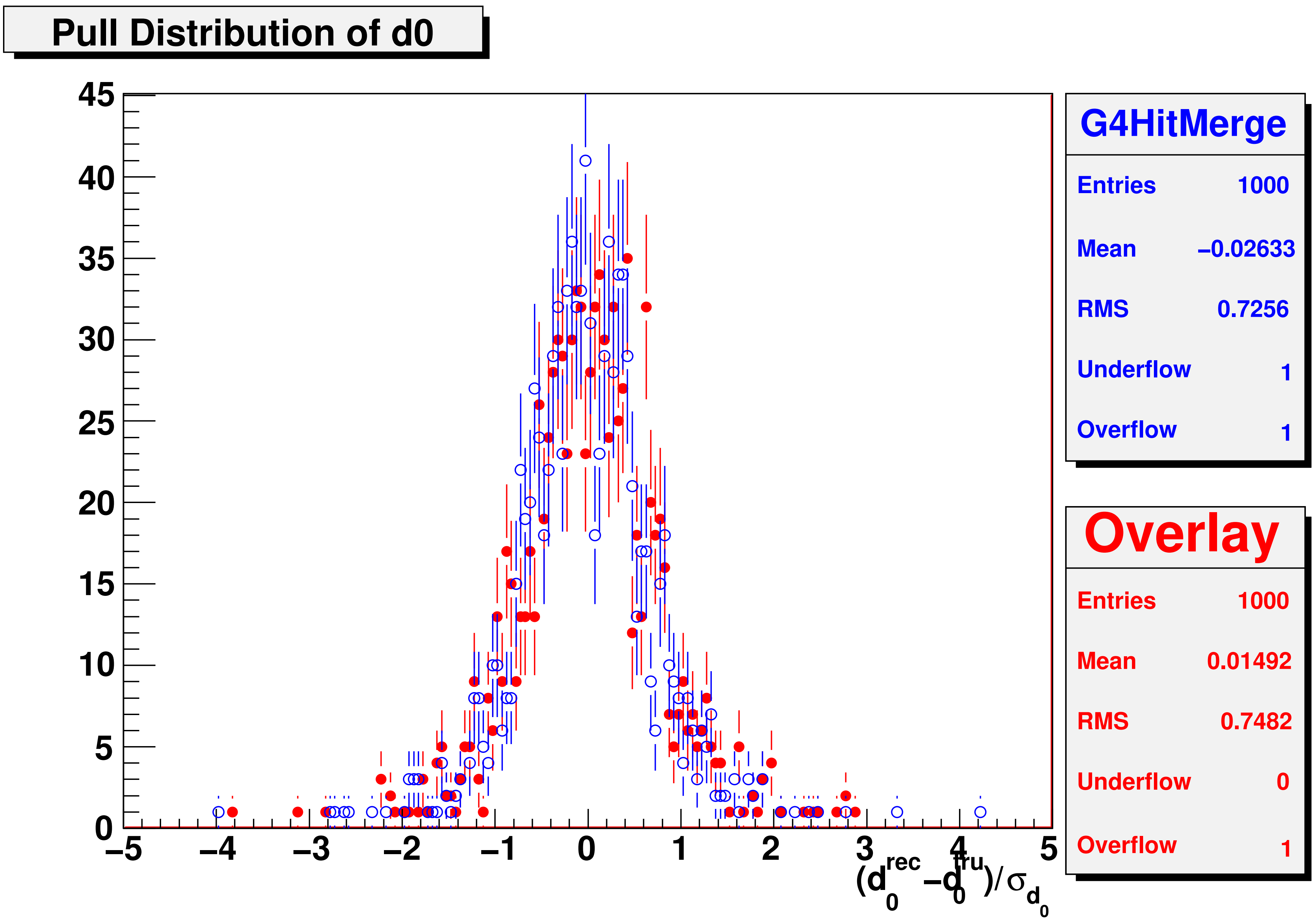
Z of interaction point (mm)
90
80
70
60
50
40
30
20
10
0
−300
−200
−100
0
100
200
300
R_z^{int}(mm)
G4HitMerge
Entries 1000
Mean 0.1414
RMS 59.22
Underflow 0
Overflow 0
Overlay
Entries 2000
Mean 0.1414
RMS 59.22
Underflow 0
Overflow 0



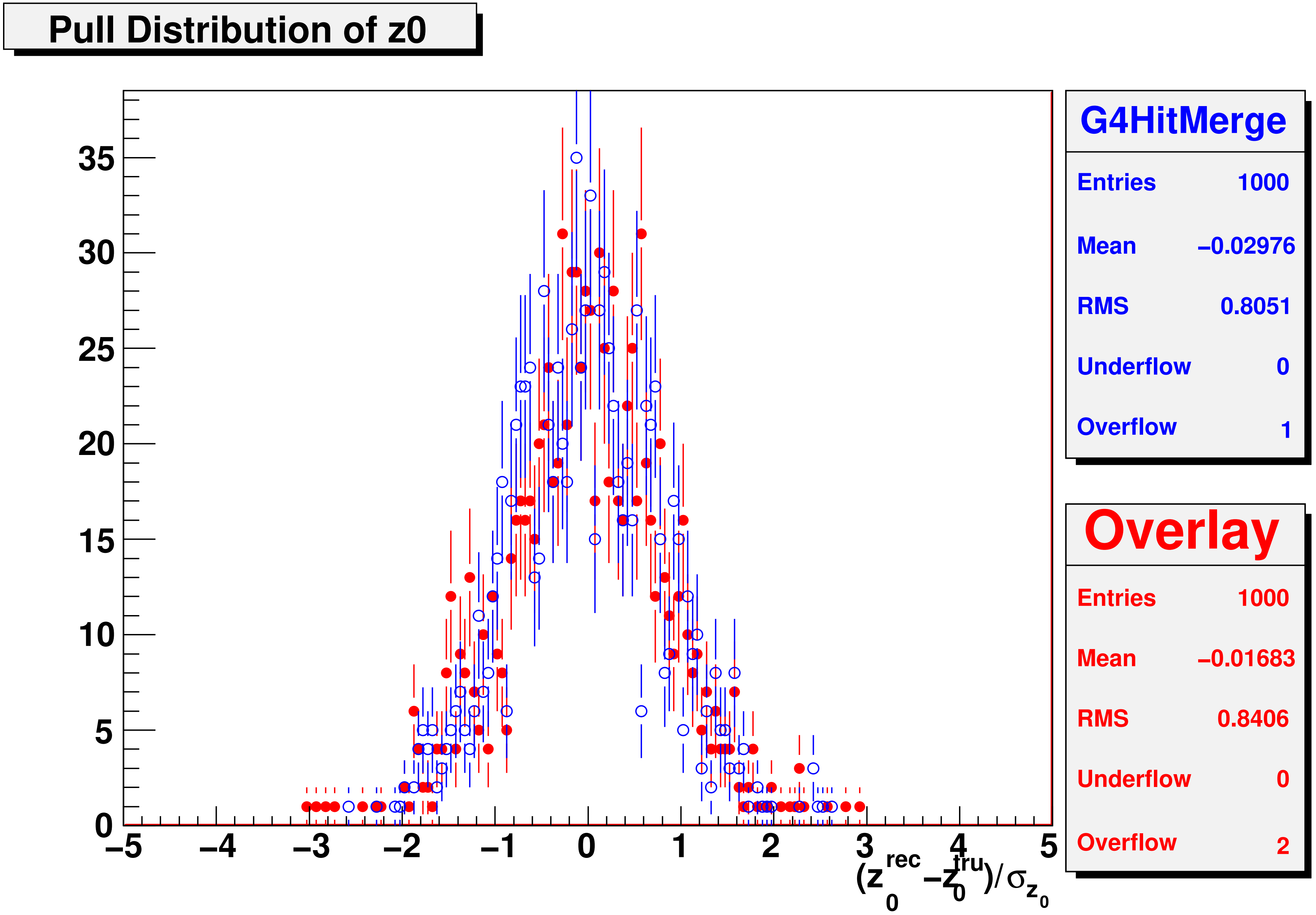
p_T of selected rec tracks (in GeV)
G4HitMerge
Entries 1001
Mean 0.9379
RMS 0
Underflow 0
Overflow 1000
Overlay
Entries 1003
Mean 0.9378
RMS 0
Underflow 0
Overflow 1002
1
0 2 4 6 8 10 12 14 16 18 20
p_T(GeV/c)



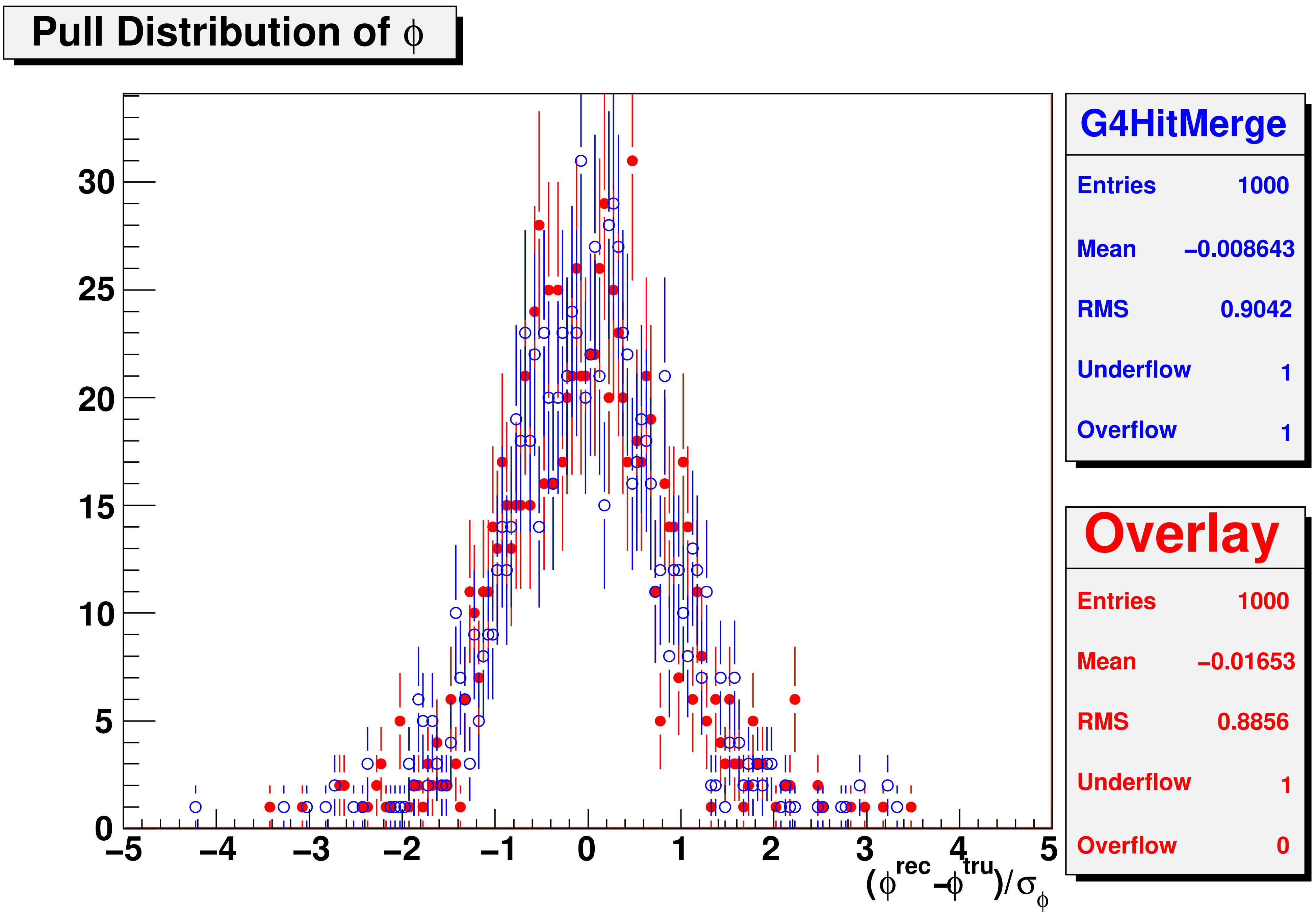
z0 of selected rec tracks (in mm)
G4HitMerge
Entries 1001
Mean 0.3056
RMS 59.04
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 0.4977
RMS 59.15
Underflow 0
Overflow 0
0
5
10
15
20
25
30
35
40
−300
−200
−100
0
100
200
300
z0(mm)

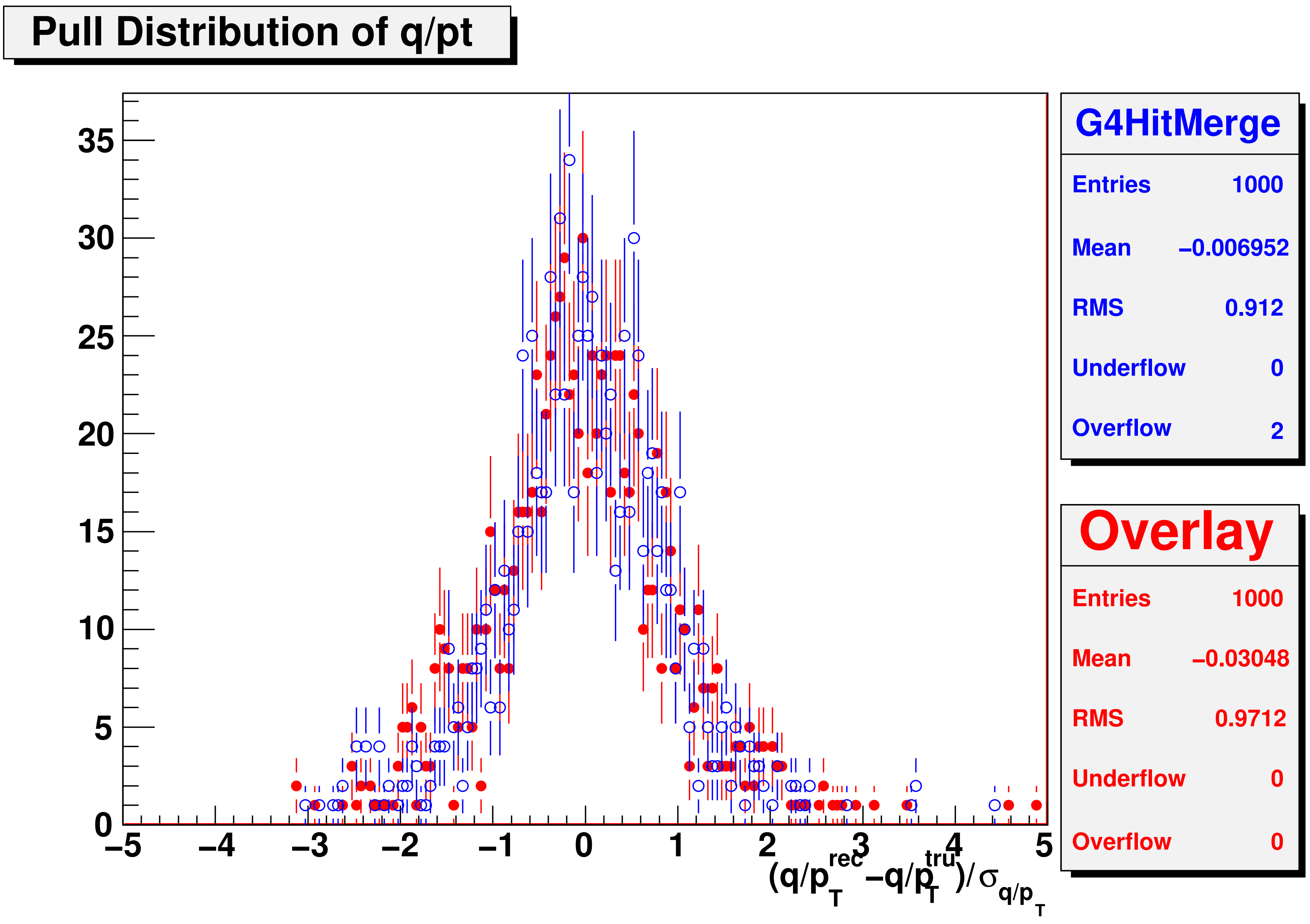


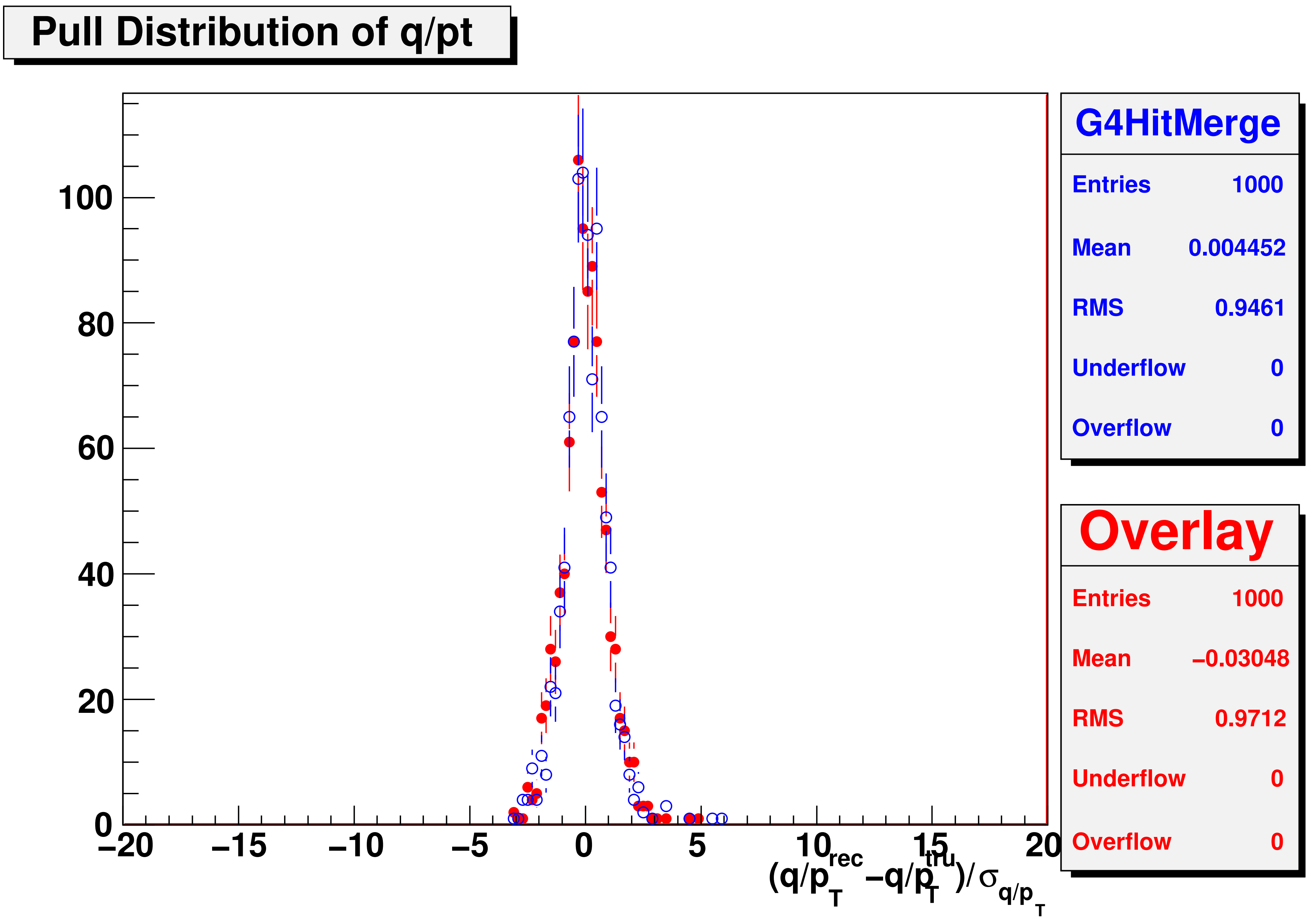
Pull Distribution of d0
G4HitMerge
Entries 1000
Mean −0.02633
RMS 0.7256
Underflow 1
Overflow 1
Overlay
Entries 1000
Mean 0.01492
RMS 0.7482
Underflow 0
Overflow 1
$(d_0^{rec}-d_0^{tru})/\sigma_{d_0}$

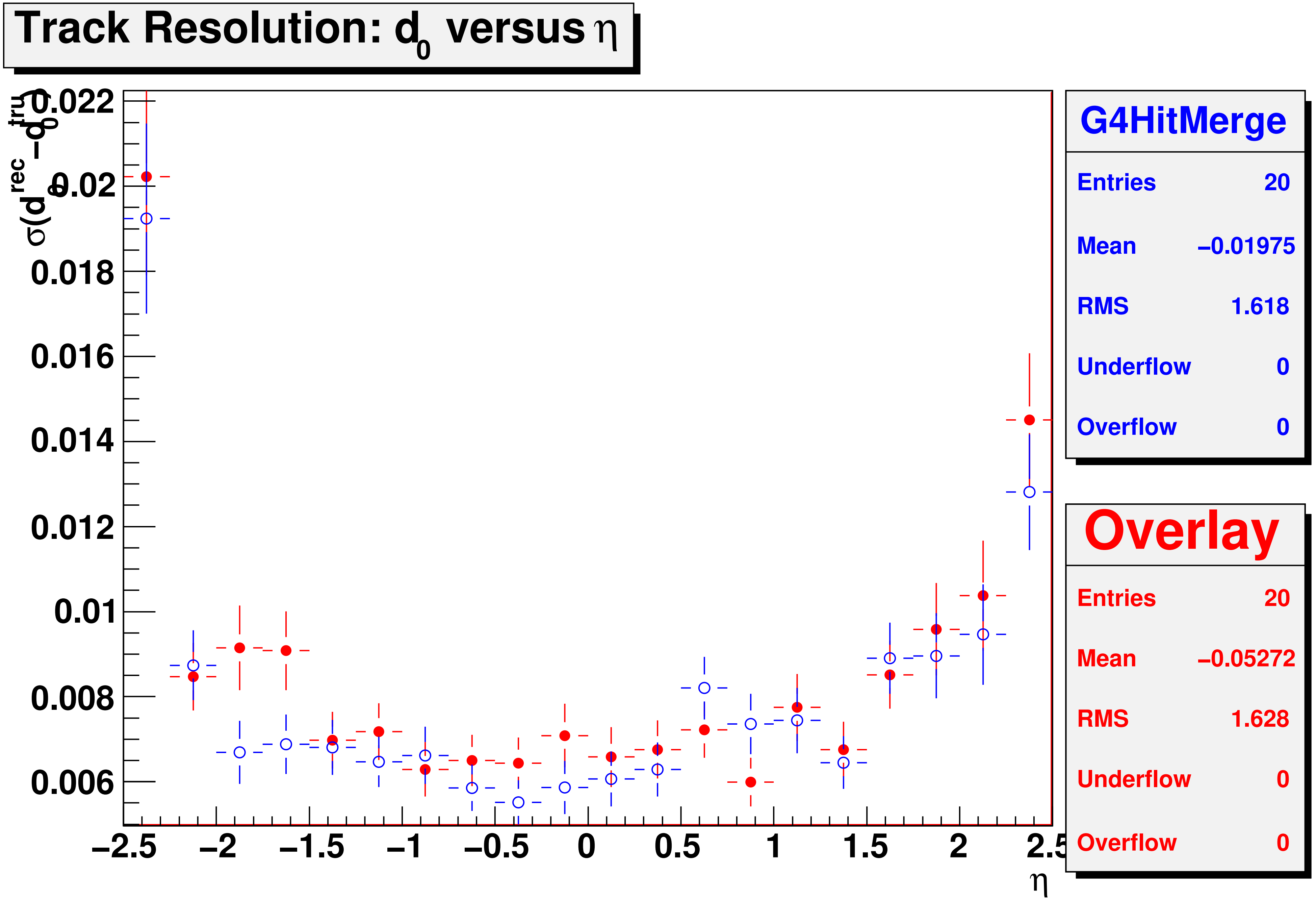


Pull Distribution of z0
G4HitMerge
Entries 1000
Mean −0.02976
RMS 0.8051
Underflow 0
Overflow 1
Overlay
Entries 1000
Mean −0.01683
RMS 0.8406
Underflow 0
Overflow 2
$(z_0^{rec} - z_0^{tru})/\sigma_{z_0}$

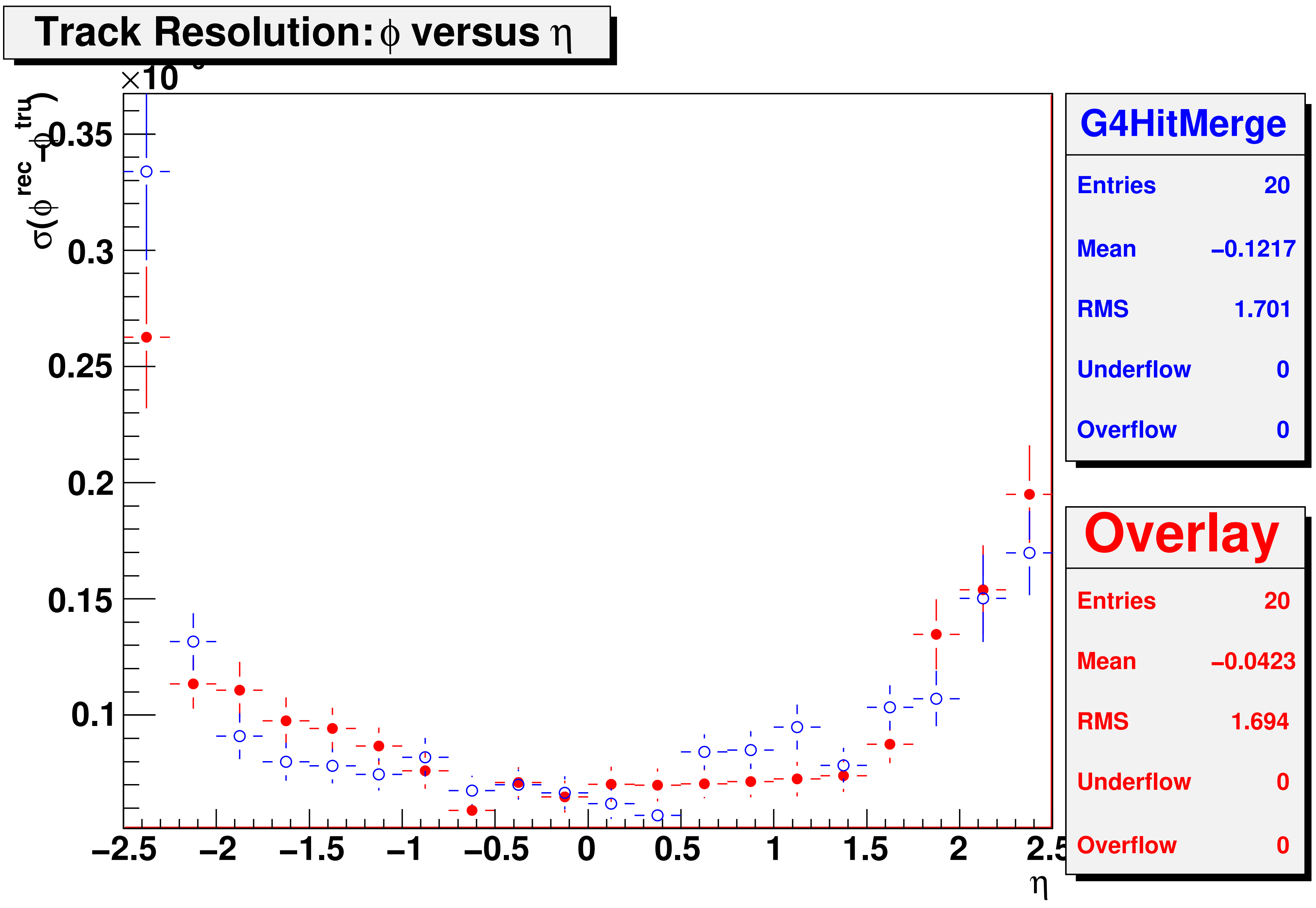

Pull Distribution of ϕ
G4HitMerge
Entries 1000
Mean −0.008643
RMS 0.9042
Underflow 1
Overflow 1
Overlay
Entries 1000
Mean −0.01653
RMS 0.8856
Underflow 1
Overflow 0
0
5
10
15
20
25
30
−5
−4
−3
−2
−1
0
1
2
3
4
5
$(\phi^{rec}-\phi^{tru})/\sigma_\phi$

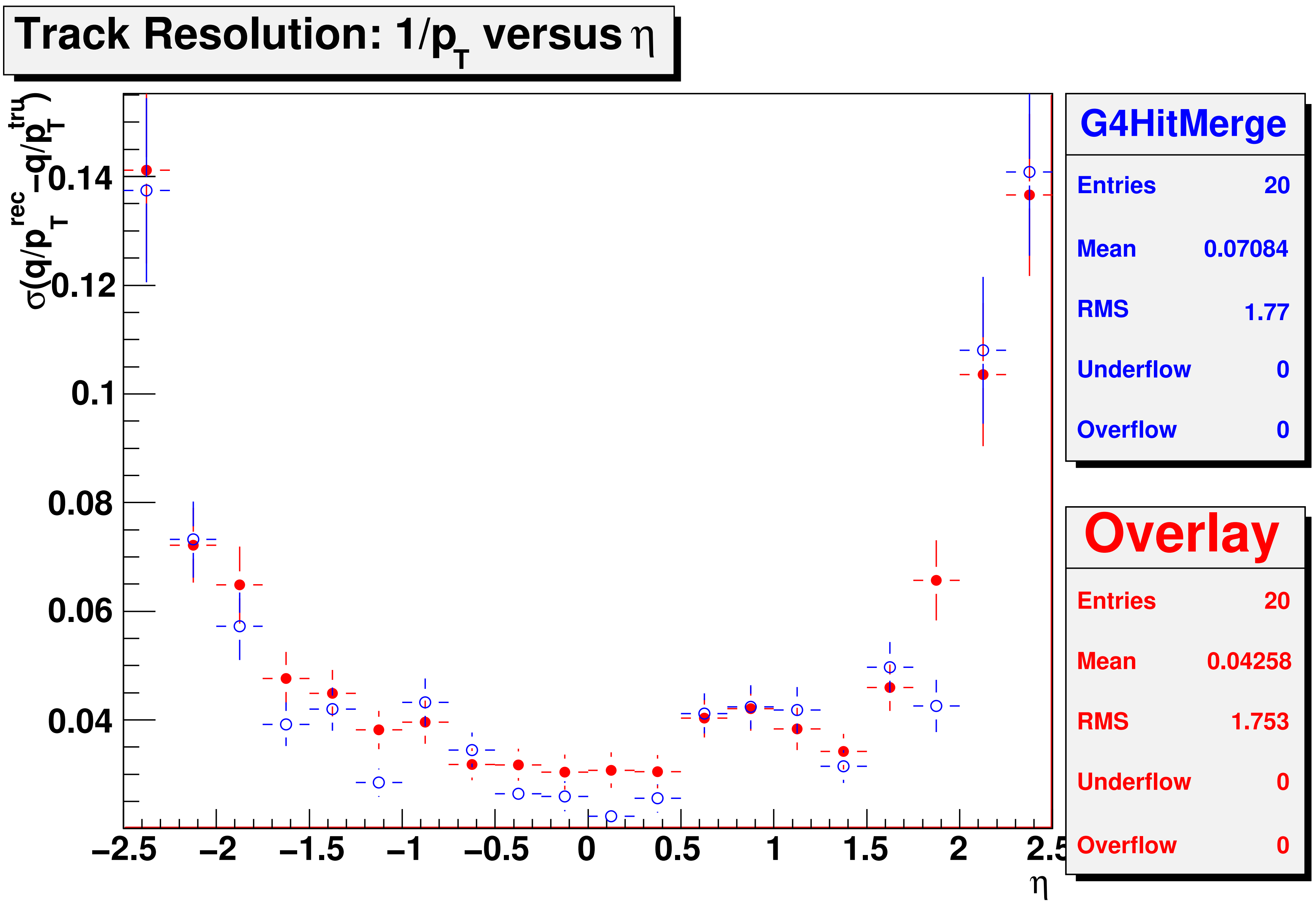

Pull Distribution of q/pt
G4HitMerge
Entries 1000
Mean −0.006952
RMS 0.912
Underflow 0
Overflow 2
Overlay
Entries 1000
Mean −0.03048
RMS 0.9712
Underflow 0
Overflow 0
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$

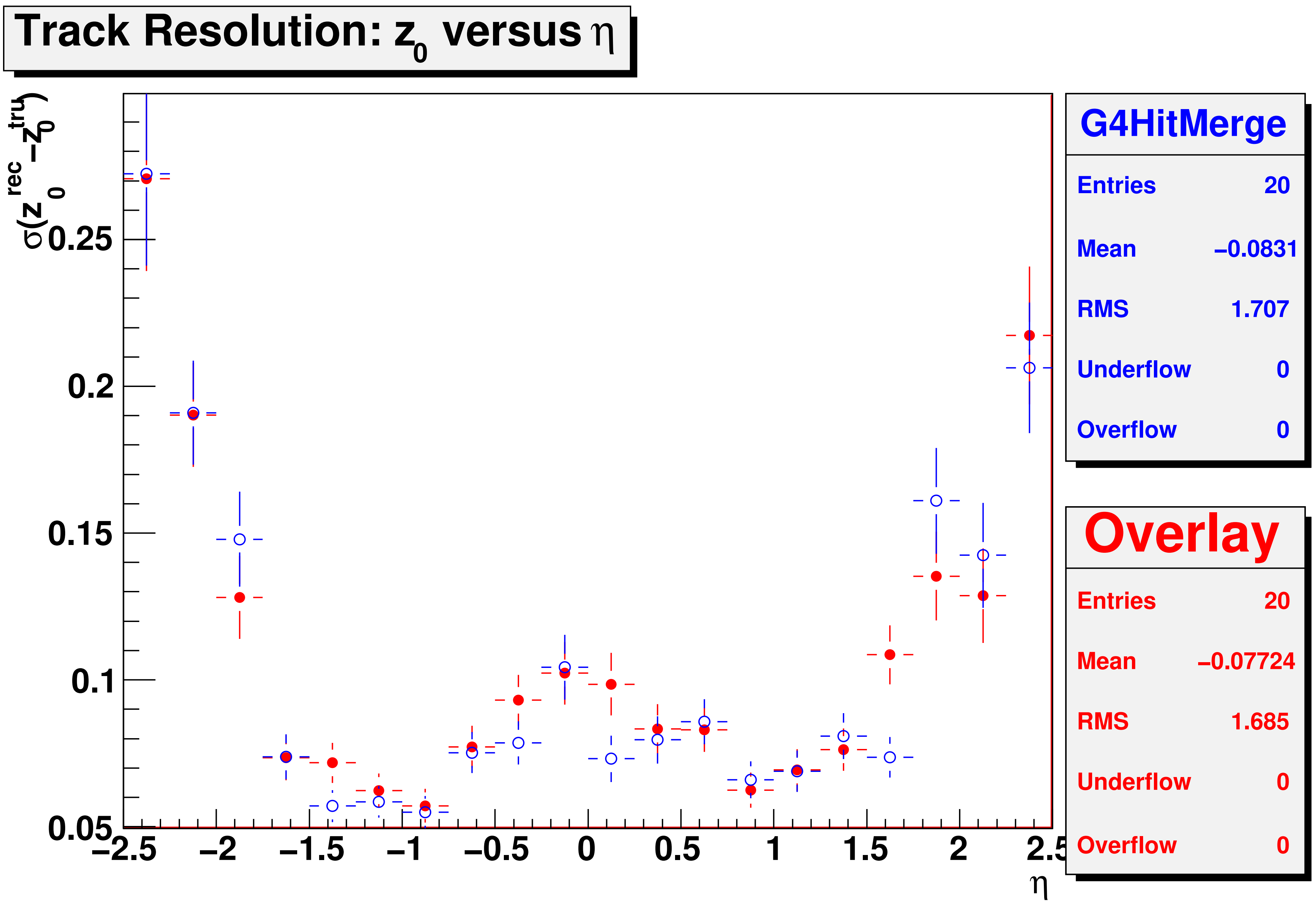

Pull Distribution of q/pt
G4HitMerge
Entries 1000
Mean 0.004452
RMS 0.9461
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean –0.03048
RMS 0.9712
Underflow 0
Overflow 0
100
80
60
40
20
0
–20 –15 –10 –5 0 5 10 15 20
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$

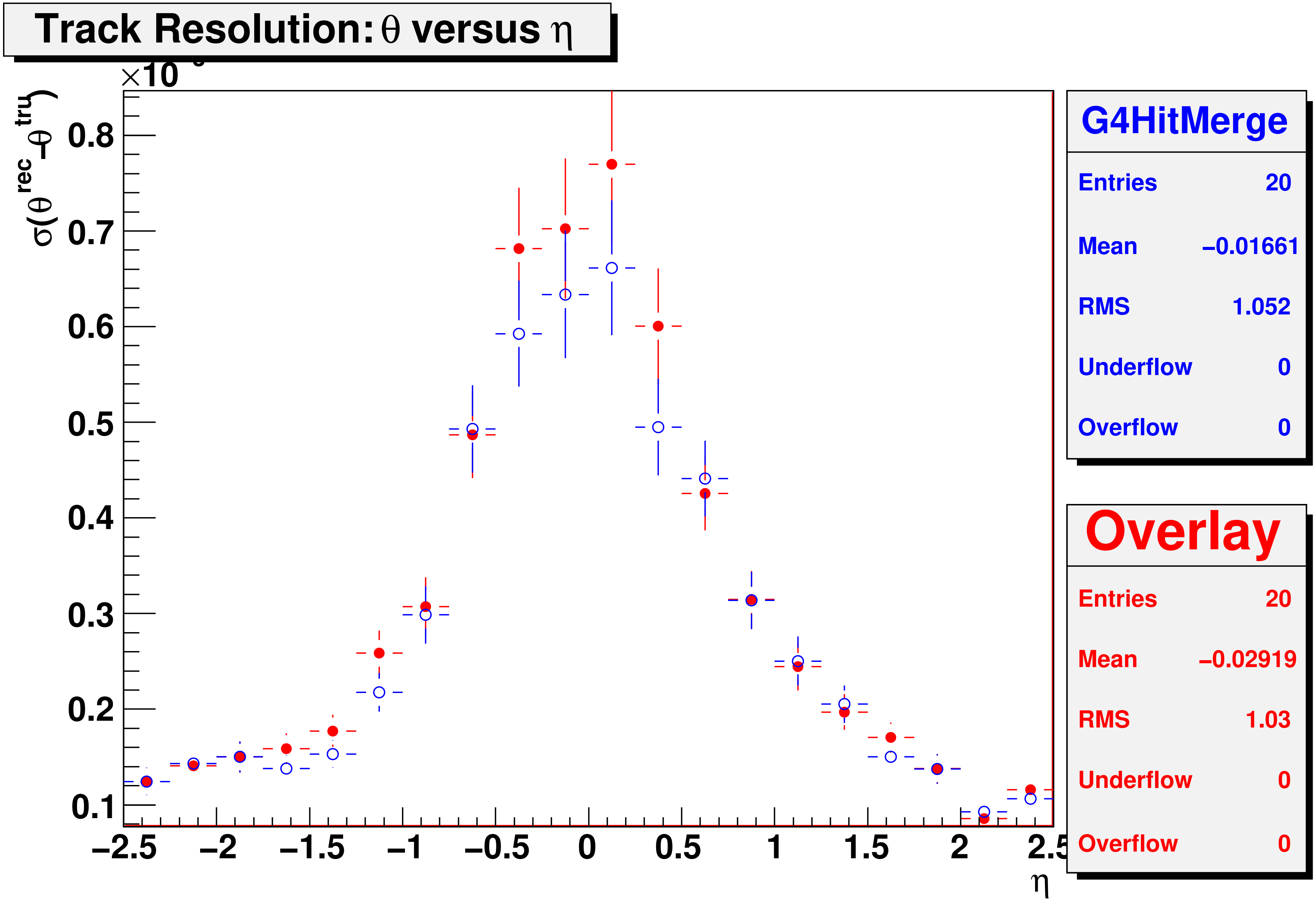


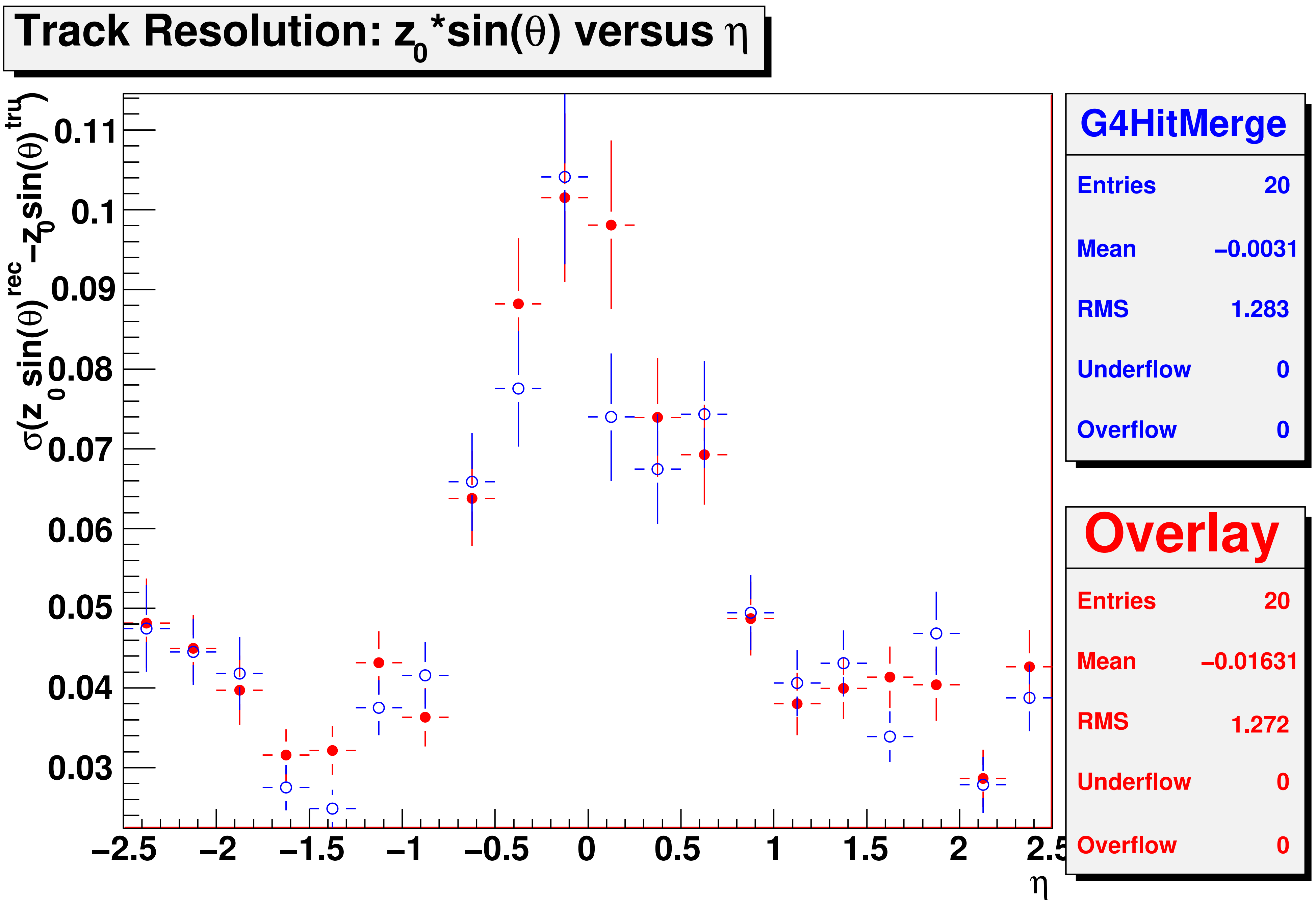
Track Resolution: d_0 versus η
$\sigma(d_0^{rec} - d_0^{tru})$
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
−2.5 −2 −1.5 −1 −0.5 0 0.5 1 1.5 2 2.5
η
G4HitMerge
Entries 20
Mean −0.01975
RMS 1.618
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.05272
RMS 1.628
Underflow 0
Overflow 0


Track Resolution: ϕ versus η
×10⁻³
σ(ϕ^rec − ϕ^tru)
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 −0.1217
RMS 1.701
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.0423
RMS 1.694
Underflow 0
Overflow 0

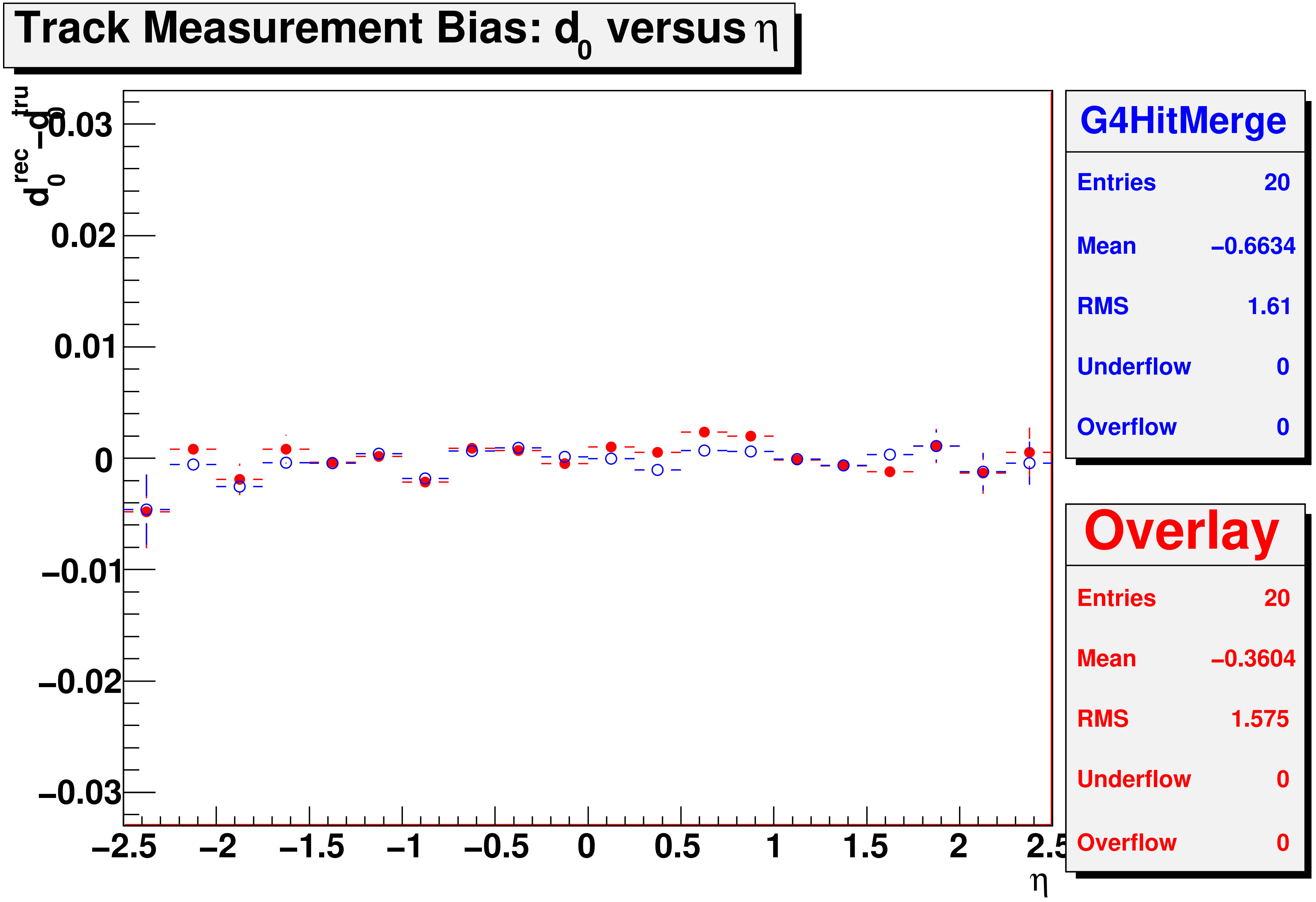

Track Resolution: 1/p_T versus η
$\sigma(q/p_T^{rec} - q/p_T^{tru})$
0.14
0.12
0.1
0.08
0.06
0.04
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.07084
RMS 1.77
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.04258
RMS 1.753
Underflow 0
Overflow 0


Track Resolution: z_0 versus η
$\sigma(z_0^{rec}-z_0^{tru})$
0.05
0.1
0.15
0.2
0.25
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.0831
RMS 1.707
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.07724
RMS 1.685
Underflow 0
Overflow 0

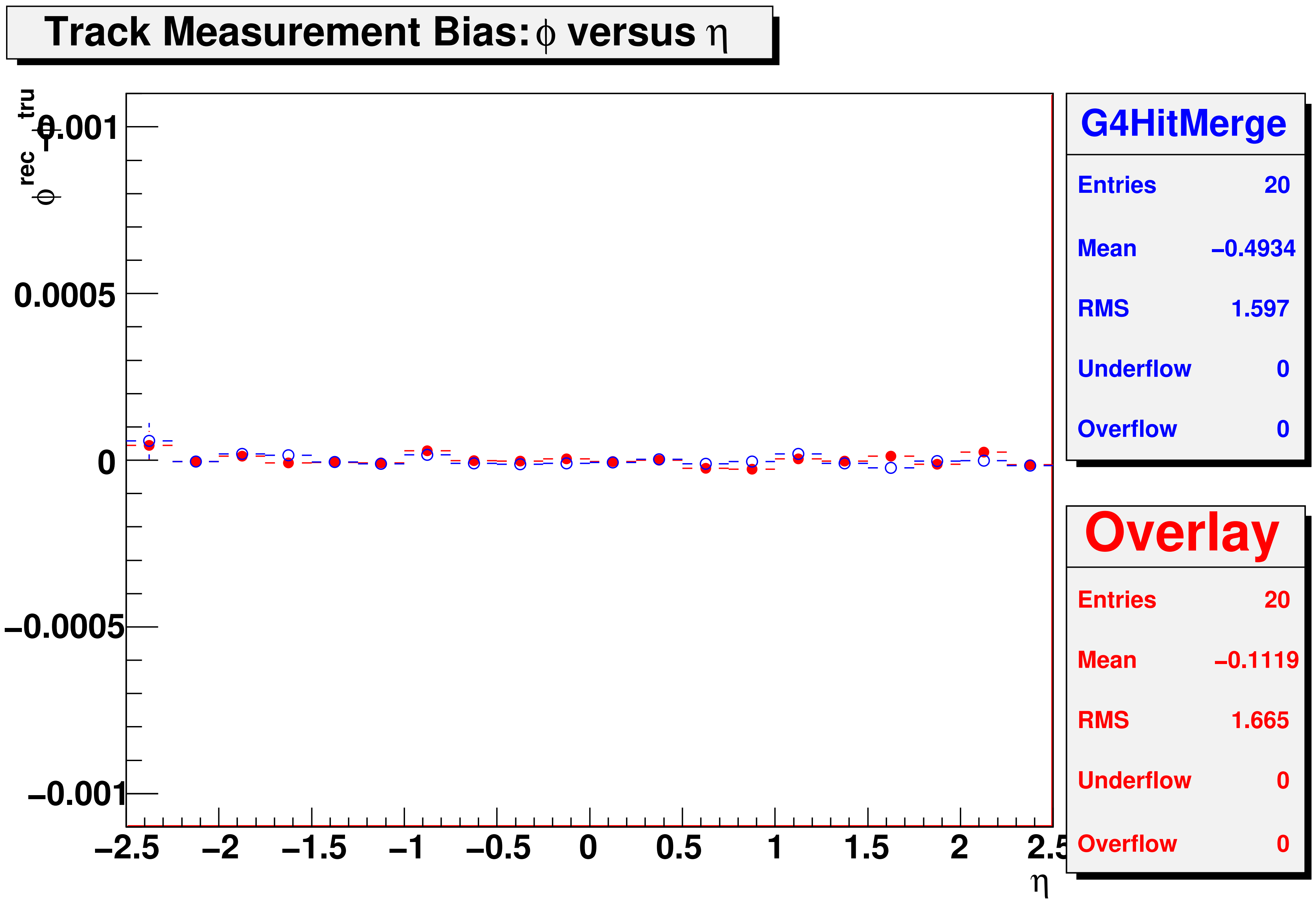

Track Resolution: θ versus η
×10
σ(θ^rec−θ^tru)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.01661
RMS 1.052
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.02919
RMS 1.03
Underflow 0
Overflow 0

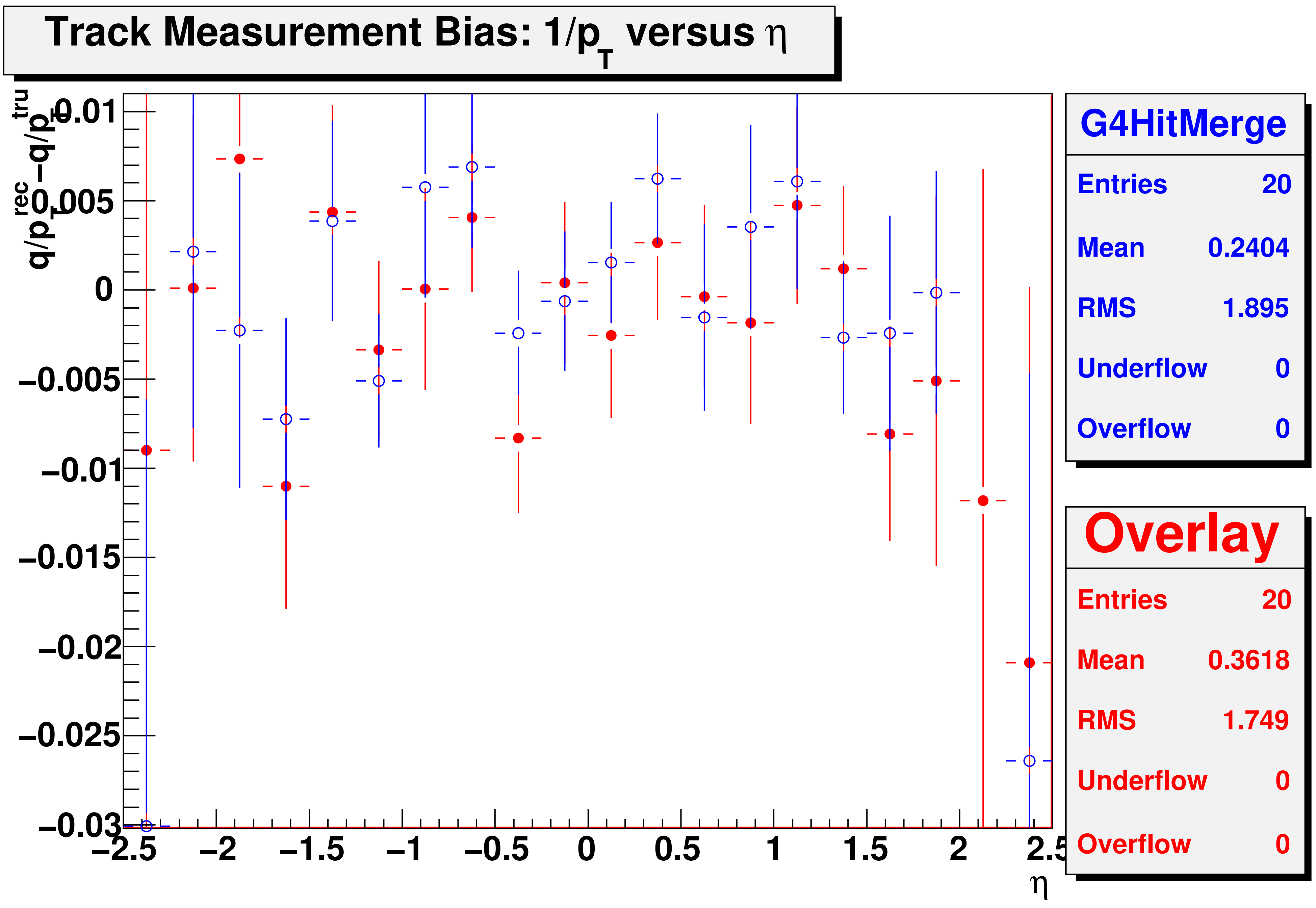


Track Resolution: z0*sin(θ) versus η
σ(z0sin(θ)rec−z0sin(θ)tru)
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.0031
RMS 1.283
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.01631
RMS 1.272
Underflow 0
Overflow 0

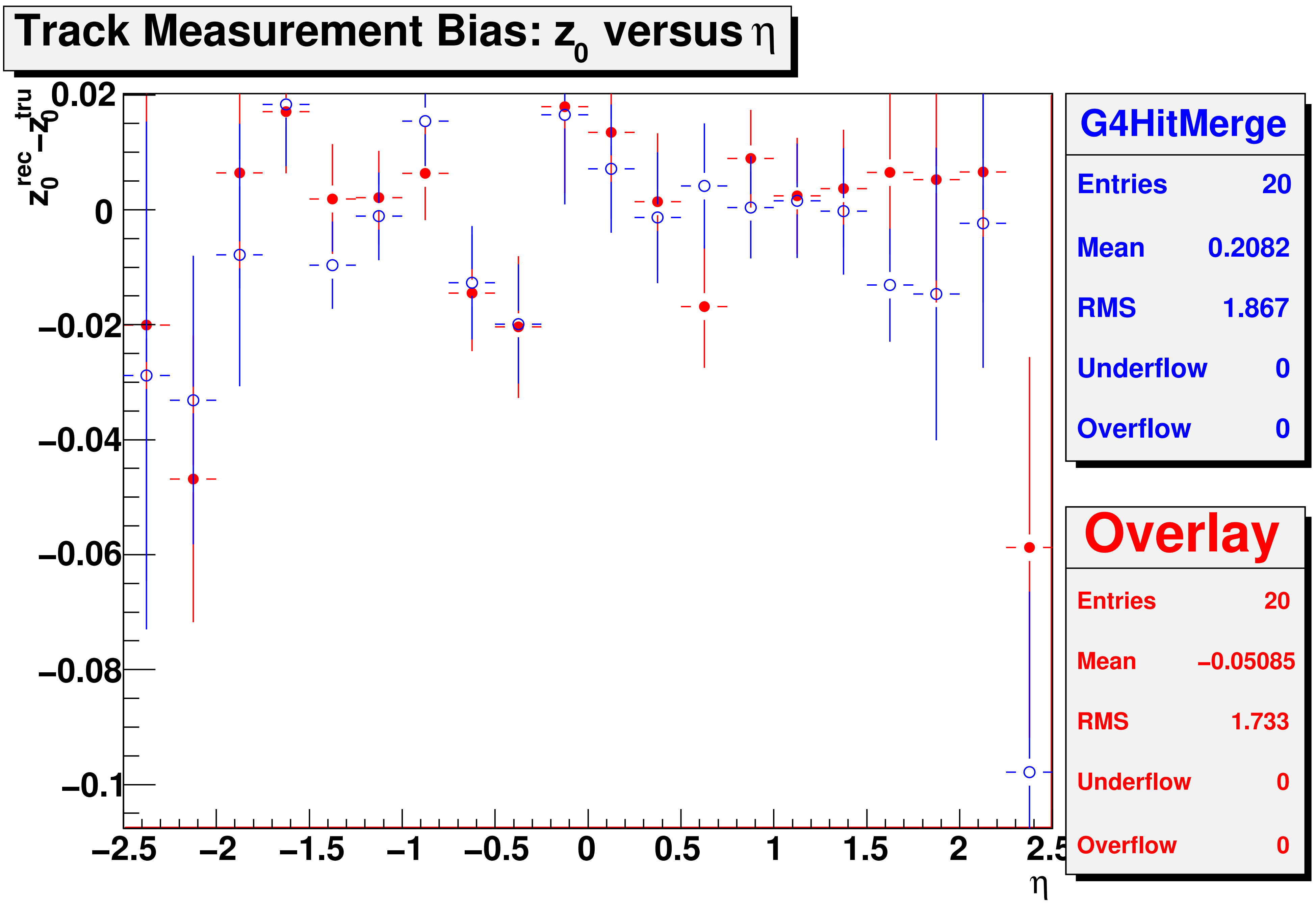


Track Measurement Bias: d_0 versus η
$d_0^{rec} - d_0^{tru}$
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.6634
RMS 1.61
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.3604
RMS 1.575
Underflow 0
Overflow 0

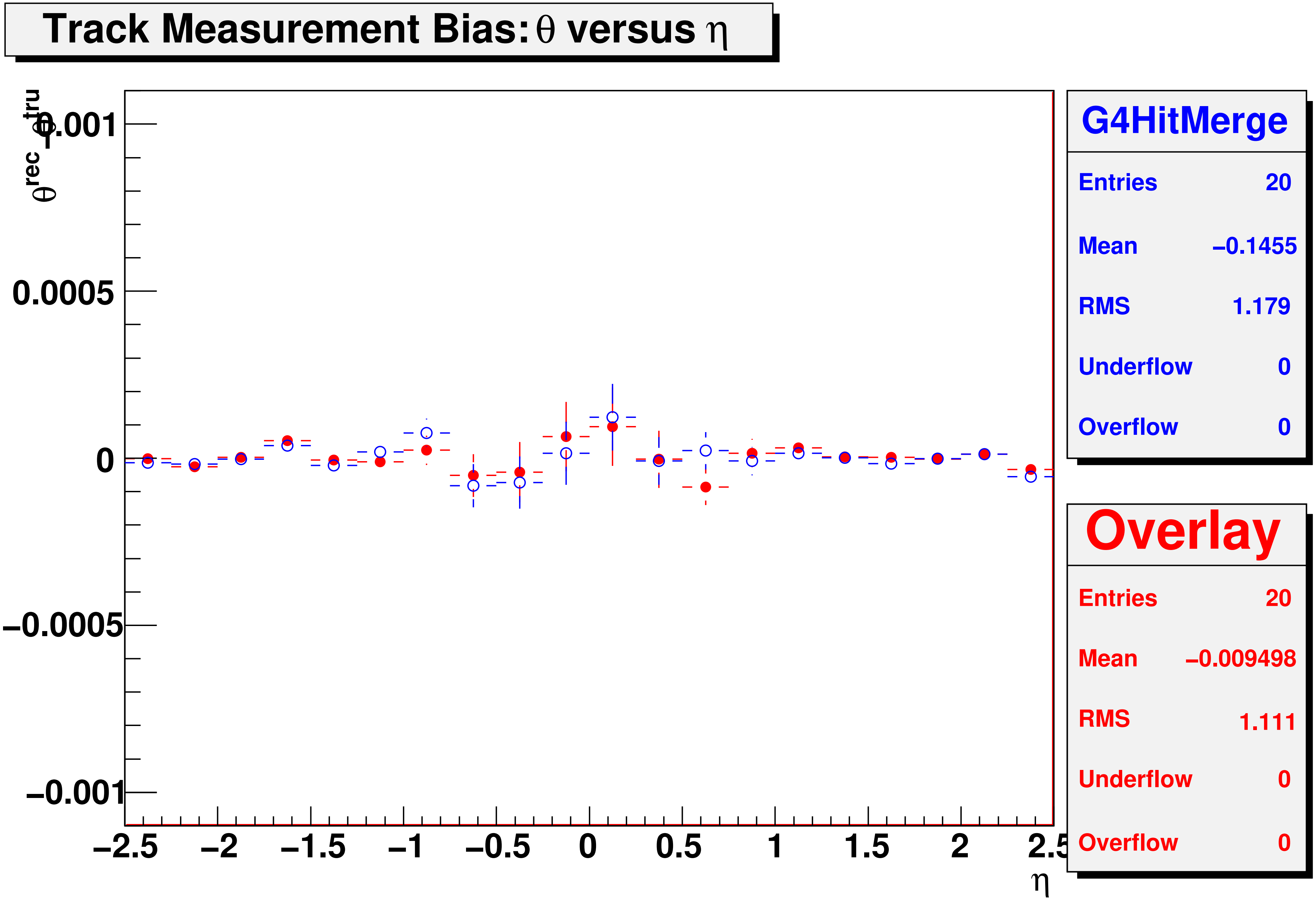

Track Measurement Bias: ϕ versus η
$\phi^{rec} - \phi^{tru}$
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.4934
RMS 1.597
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.1119
RMS 1.665
Underflow 0
Overflow 0



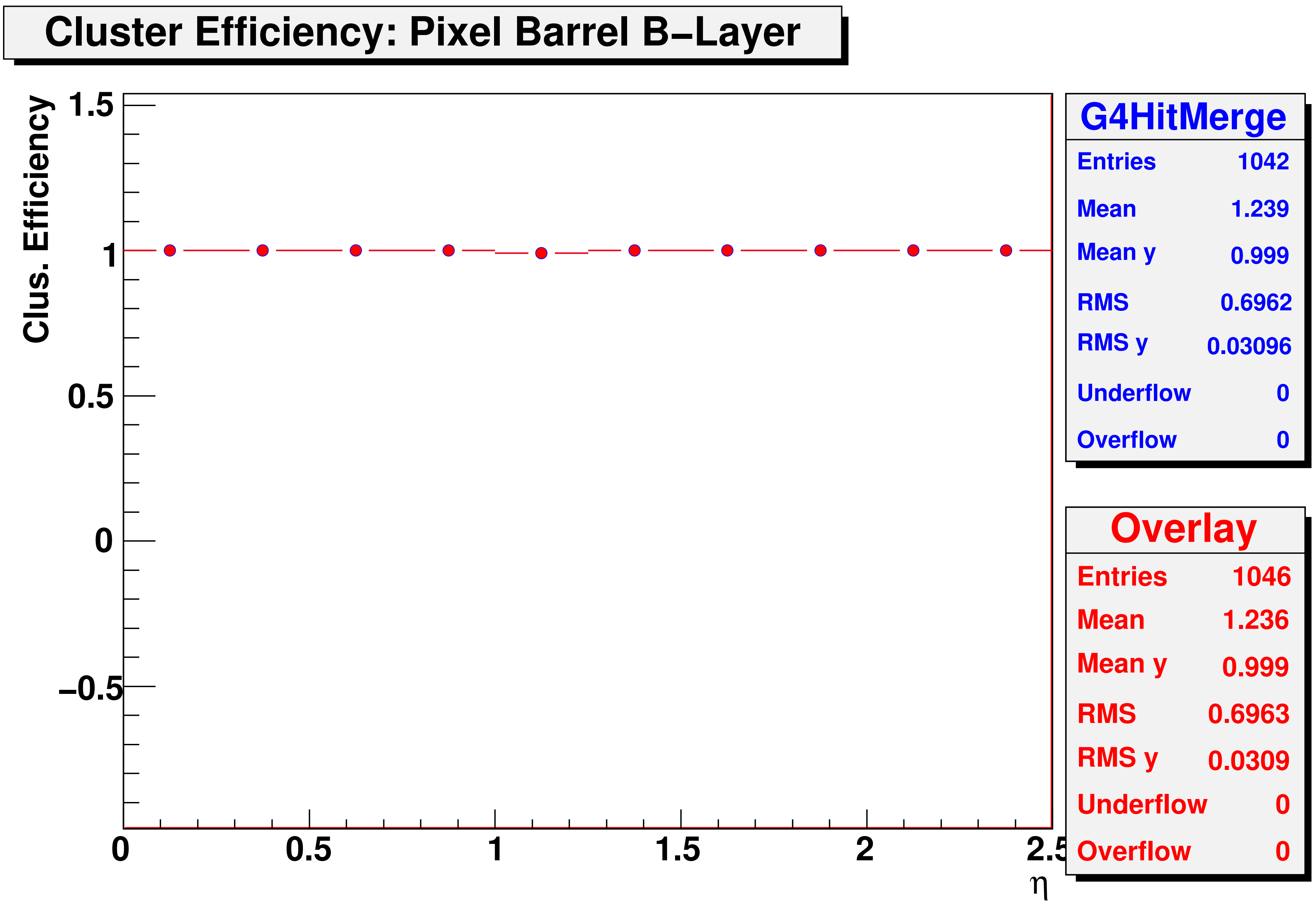
Track Measurement Bias: $1/p_T$ versus η
$q/p_T^{rec}-q/p_T^{tru}$
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.2404
RMS 1.895
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.3618
RMS 1.749
Underflow 0
Overflow 0



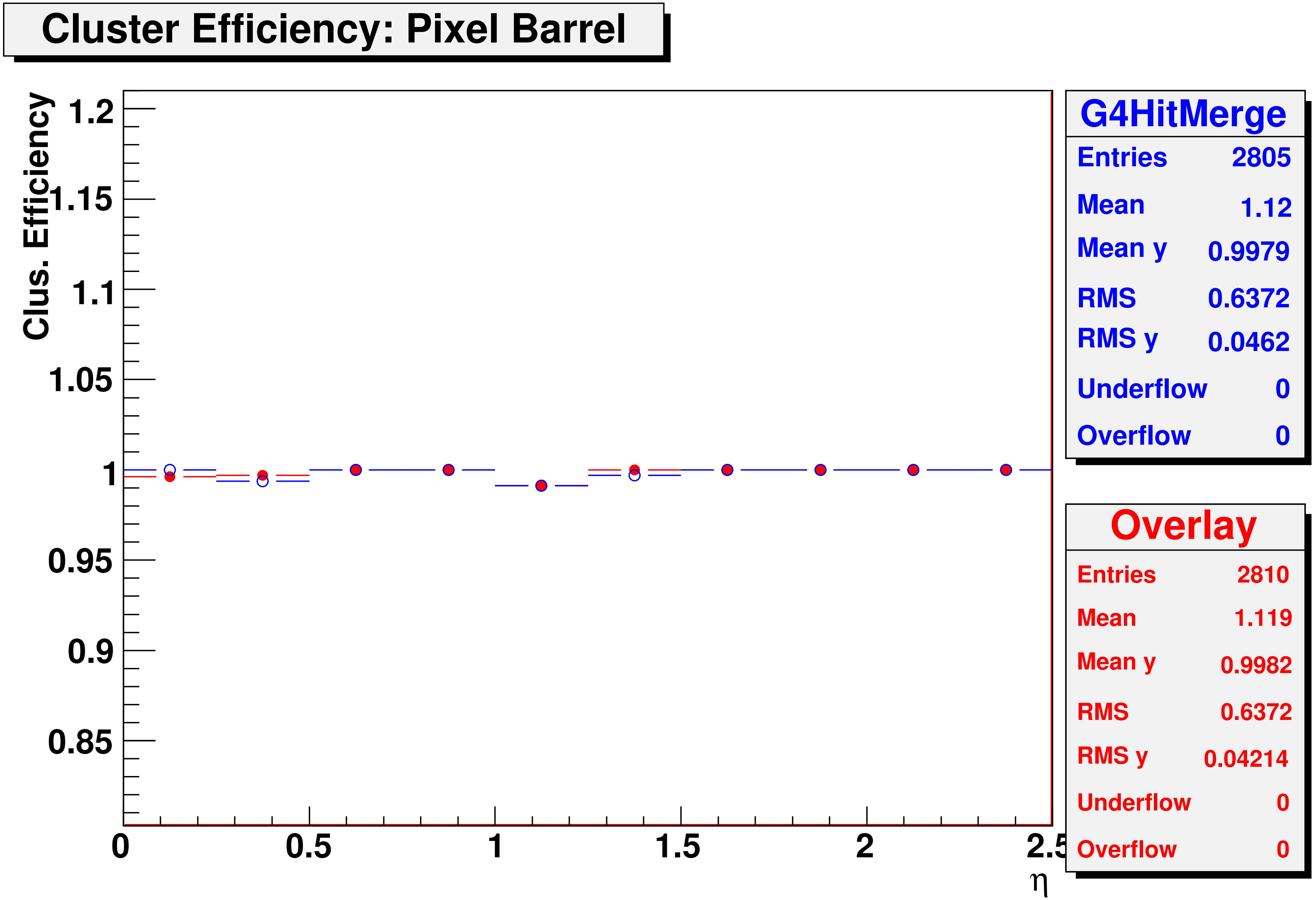
Track Measurement Bias: z_0 versus η
$z_0^{rec}-z_0^{tru}$
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.2082
RMS 1.867
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.05085
RMS 1.733
Underflow 0
Overflow 0

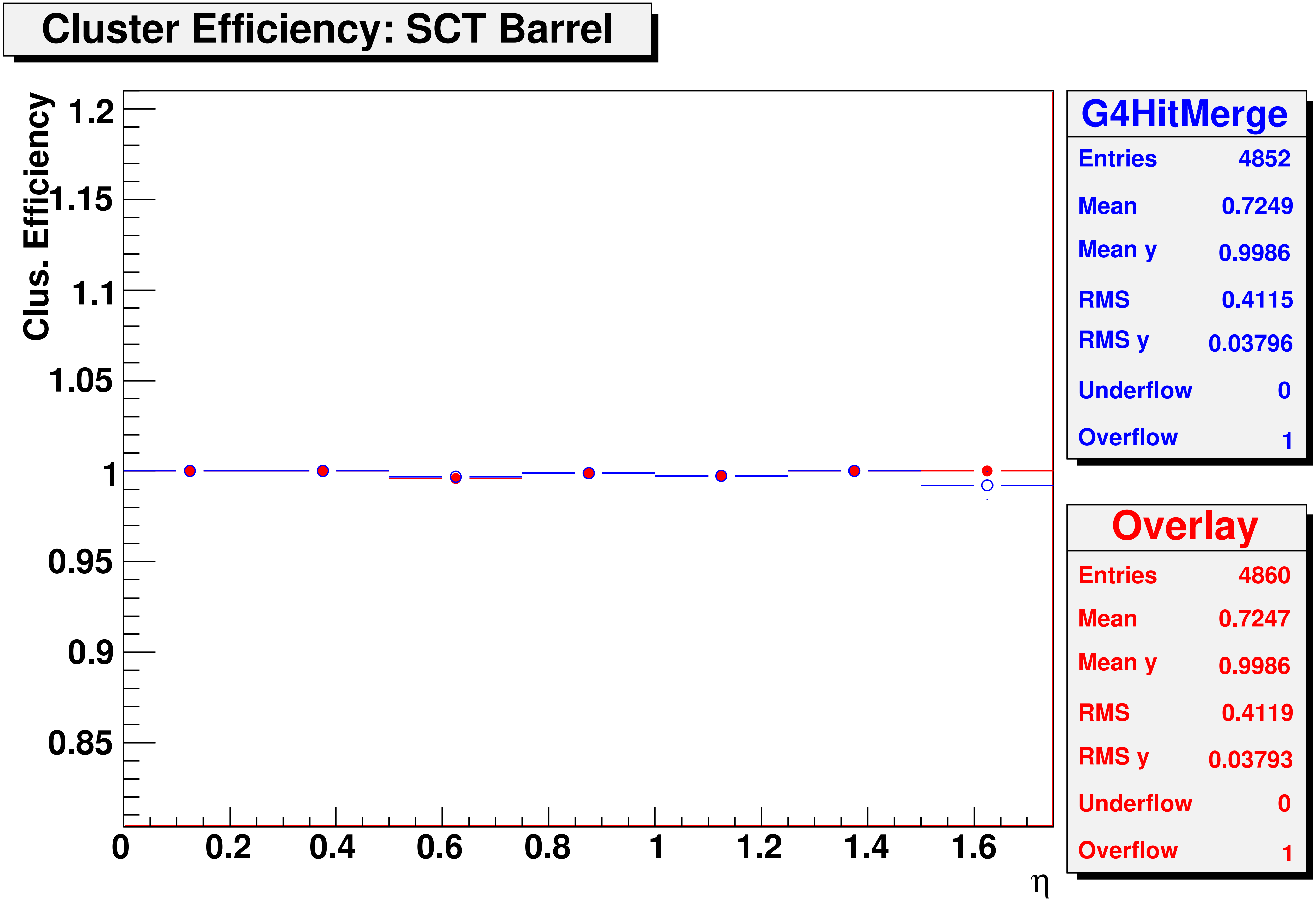


Track Measurement Bias: θ versus η
0.001
0.0005
0
−0.0005
−0.001
θ^rec − θ^tru
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.1455
RMS 1.179
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.009498
RMS 1.111
Underflow 0
Overflow 0

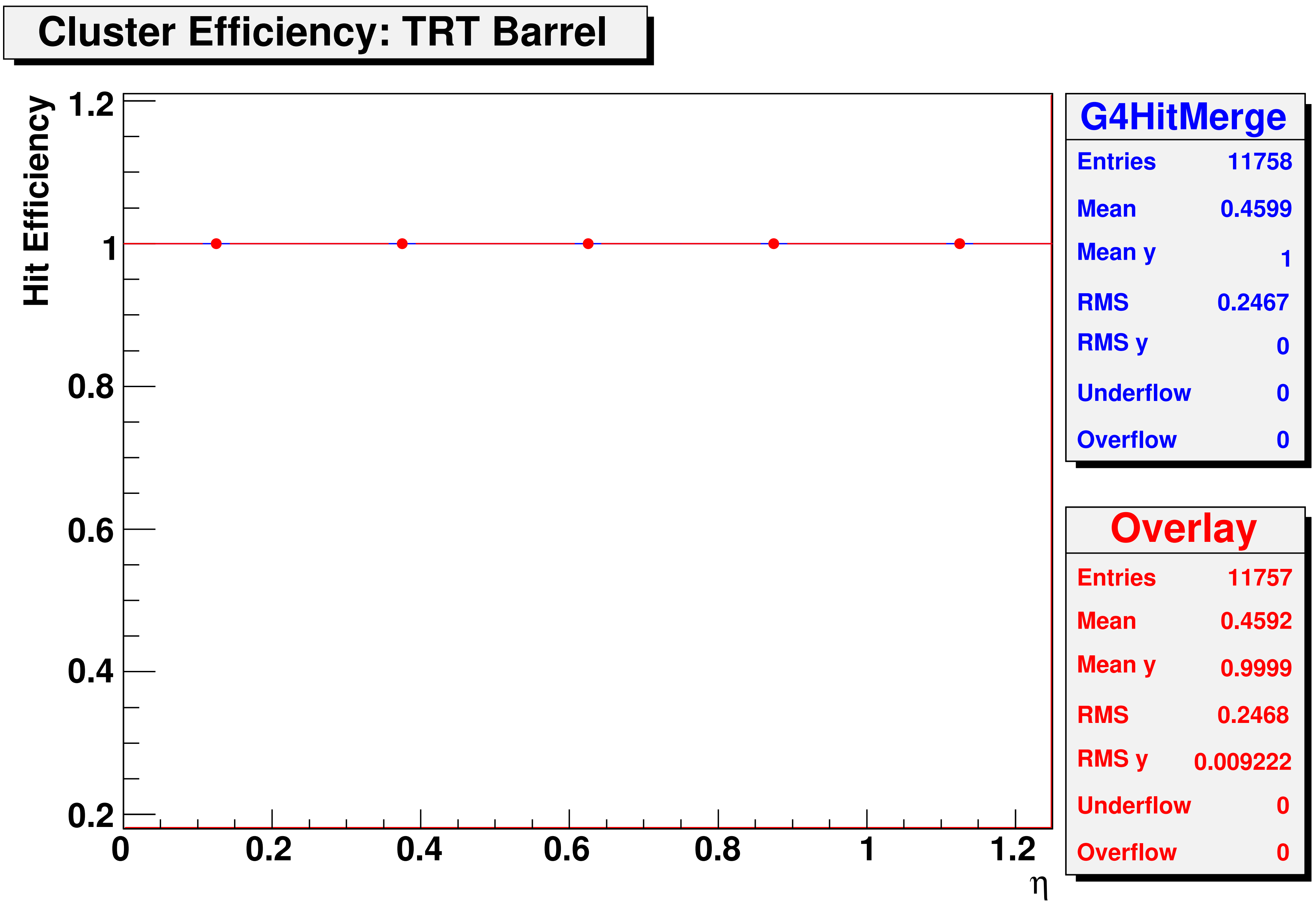


Cluster Efficiency: Pixel Barrel B−Layer
Clus. Efficiency
1.5
1
0.5
0
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1042
Mean 1.239
Mean y 0.999
RMS 0.6962
RMS y 0.03096
Underflow 0
Overflow 0
Overlay
Entries 1046
Mean 1.236
Mean y 0.999
RMS 0.6963
RMS y 0.0309
Underflow 0
Overflow 0

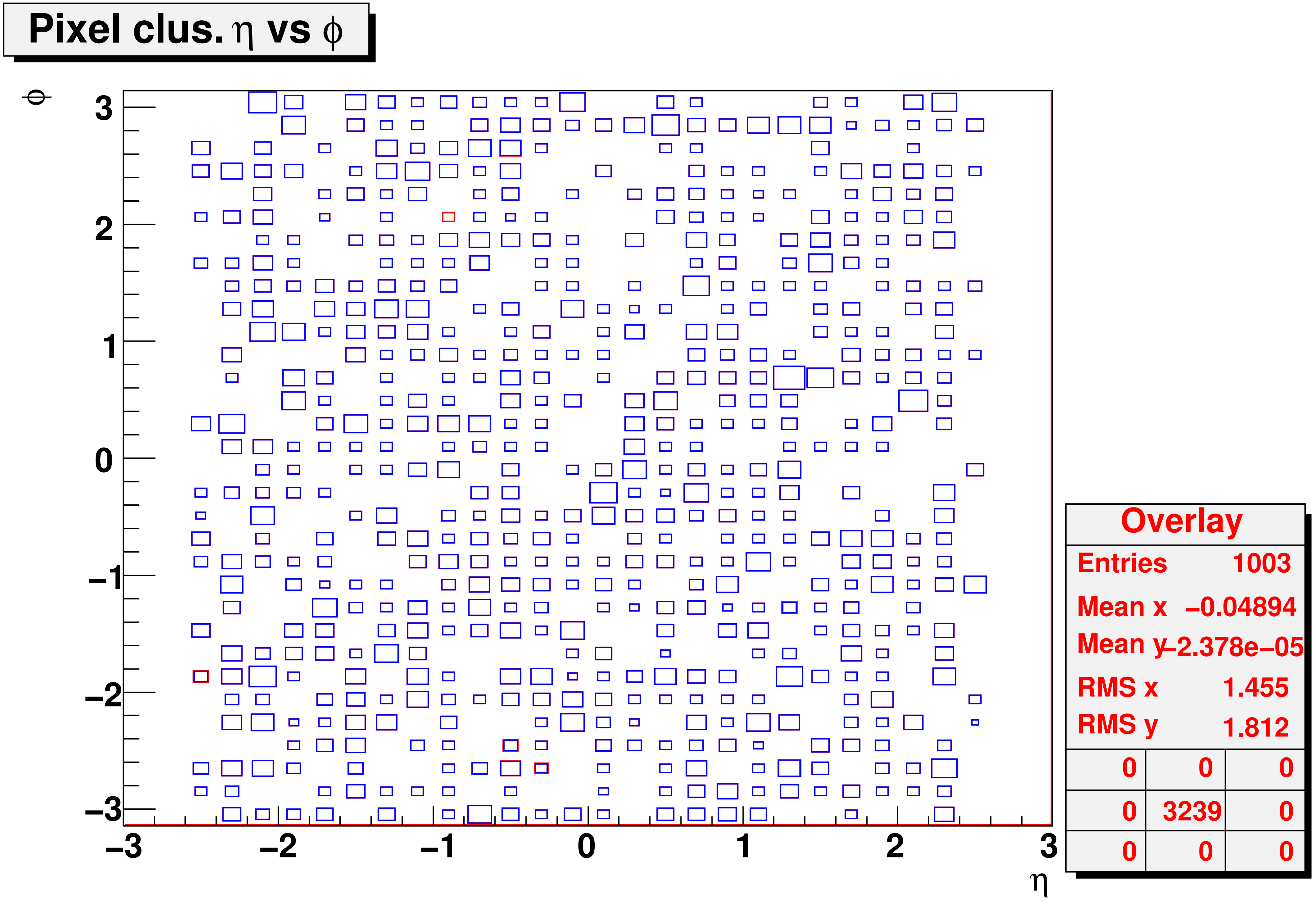

Cluster Efficiency: Pixel Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 2805
Mean 1.12
Mean y 0.9979
RMS 0.6372
RMS y 0.0462
Underflow 0
Overflow 0
Overlay
Entries 2810
Mean 1.119
Mean y 0.9982
RMS 0.6372
RMS y 0.04214
Underflow 0
Overflow 0



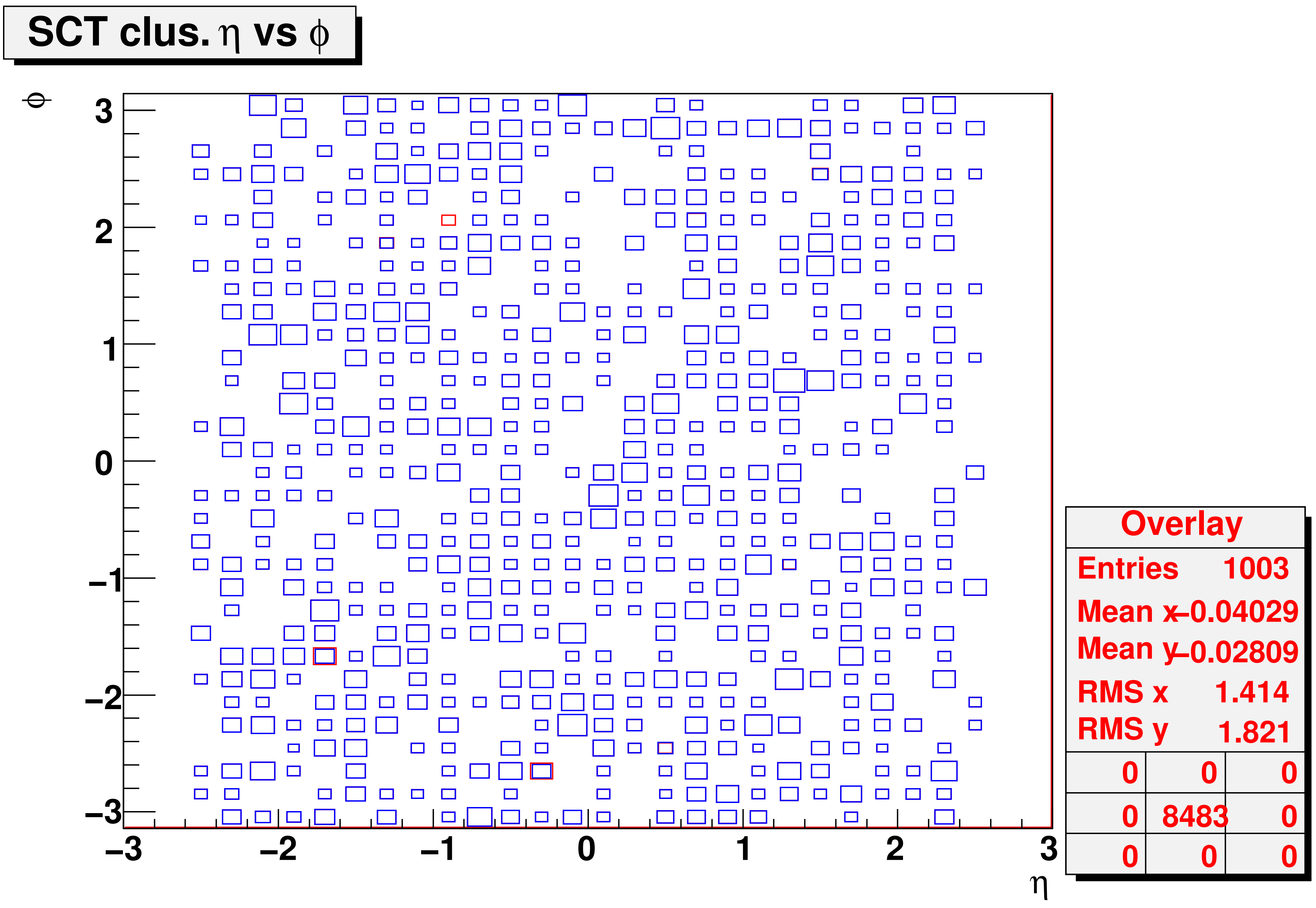
Cluster Efficiency: SCT Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
η
G4HitMerge
Entries 4852
Mean 0.7249
Mean y 0.9986
RMS 0.4115
RMS y 0.03796
Underflow 0
Overflow 1
Overlay
Entries 4860
Mean 0.7247
Mean y 0.9986
RMS 0.4119
RMS y 0.03793
Underflow 0
Overflow 1

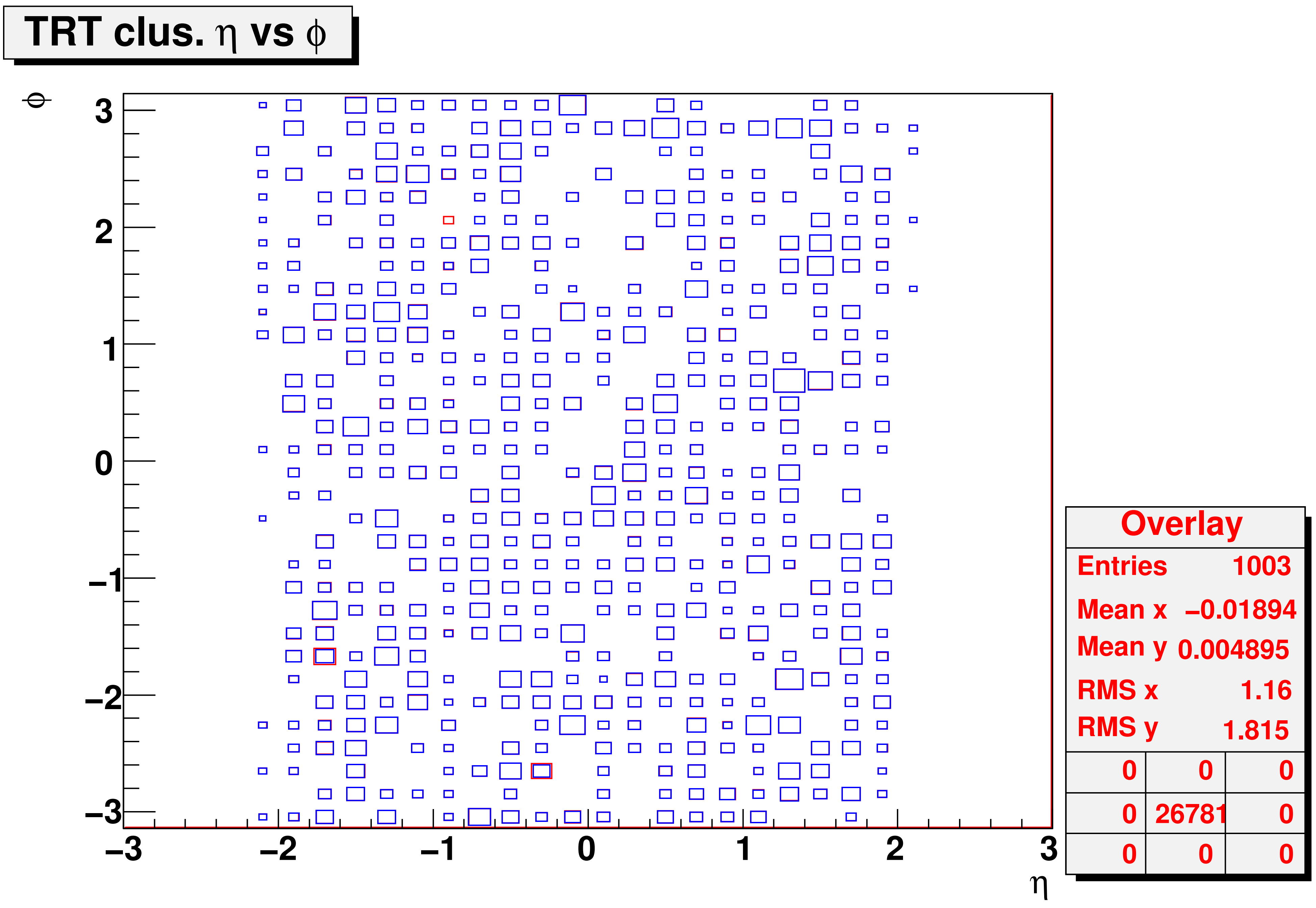


Cluster Efficiency: TRT Barrel
Hit Efficiency
1.2
1
0.8
0.6
0.4
0.2
0
0.2
0.4
0.6
0.8
1
1.2
η
G4HitMerge
Entries 11758
Mean 0.4599
Mean y 1
RMS 0.2467
RMS y 0
Underflow 0
Overflow 0
Overlay
Entries 11757
Mean 0.4592
Mean y 0.9999
RMS 0.2468
RMS y 0.009222
Underflow 0
Overflow 0

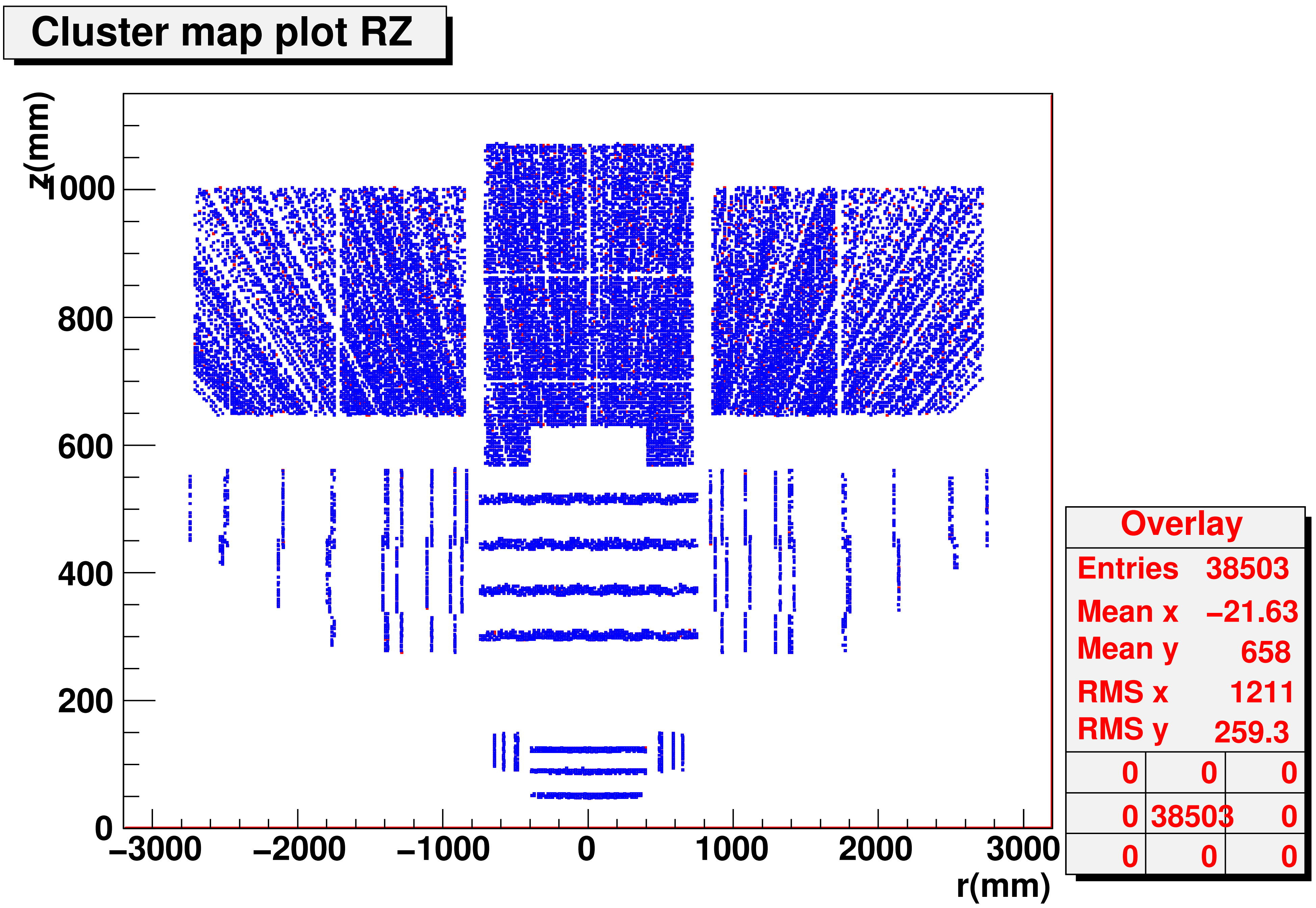


Pixel clus. η vs ϕ
ϕ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1003
Mean x −0.04894
Mean y −2.378e−05
RMS x 1.455
RMS y 1.812
0 0 0
0 3239 0
0 0 0

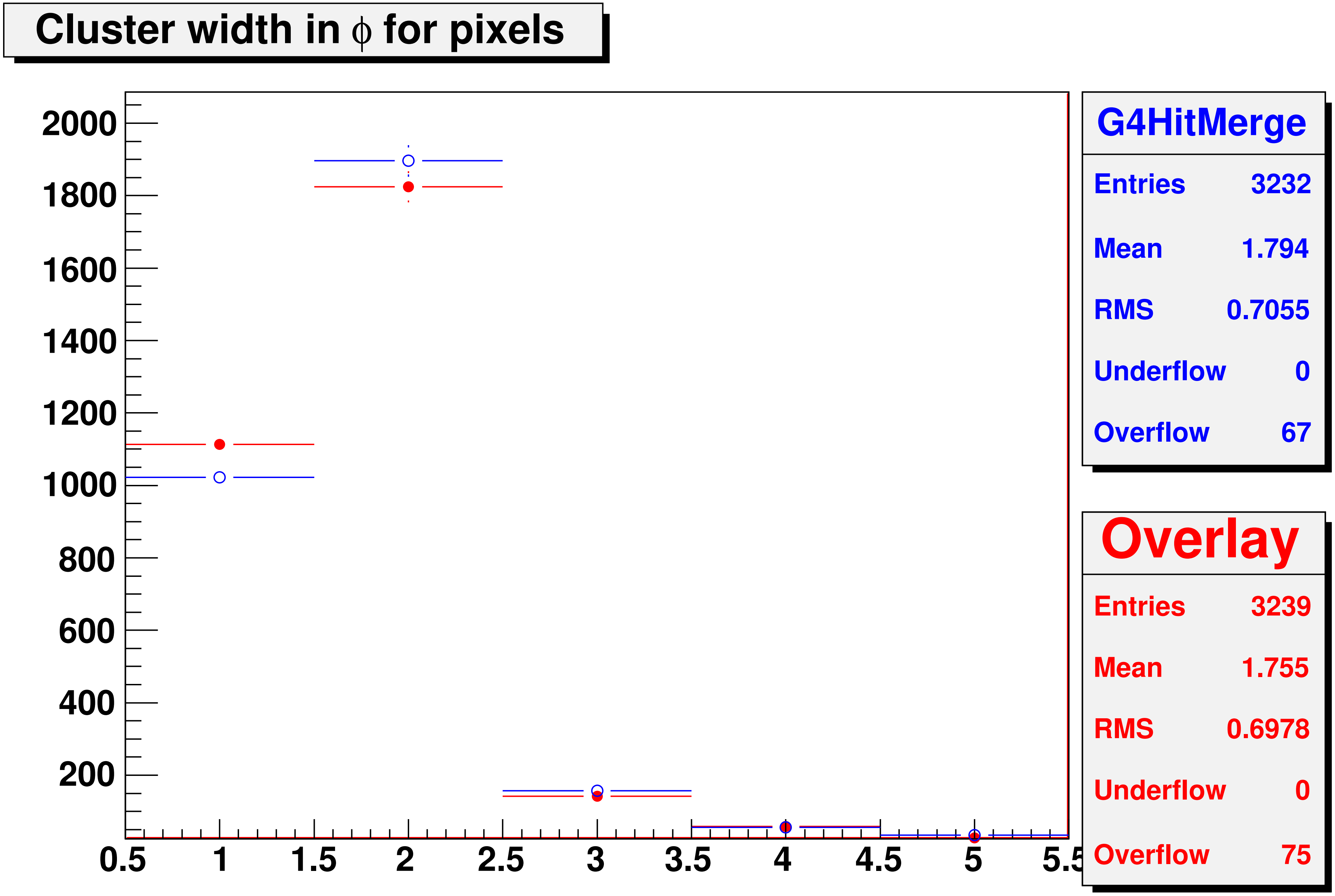

SCT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1003
Mean x −0.04029
Mean y −0.02809
RMS x 1.414
RMS y 1.821
0 0 0
0 8483 0
0 0 0

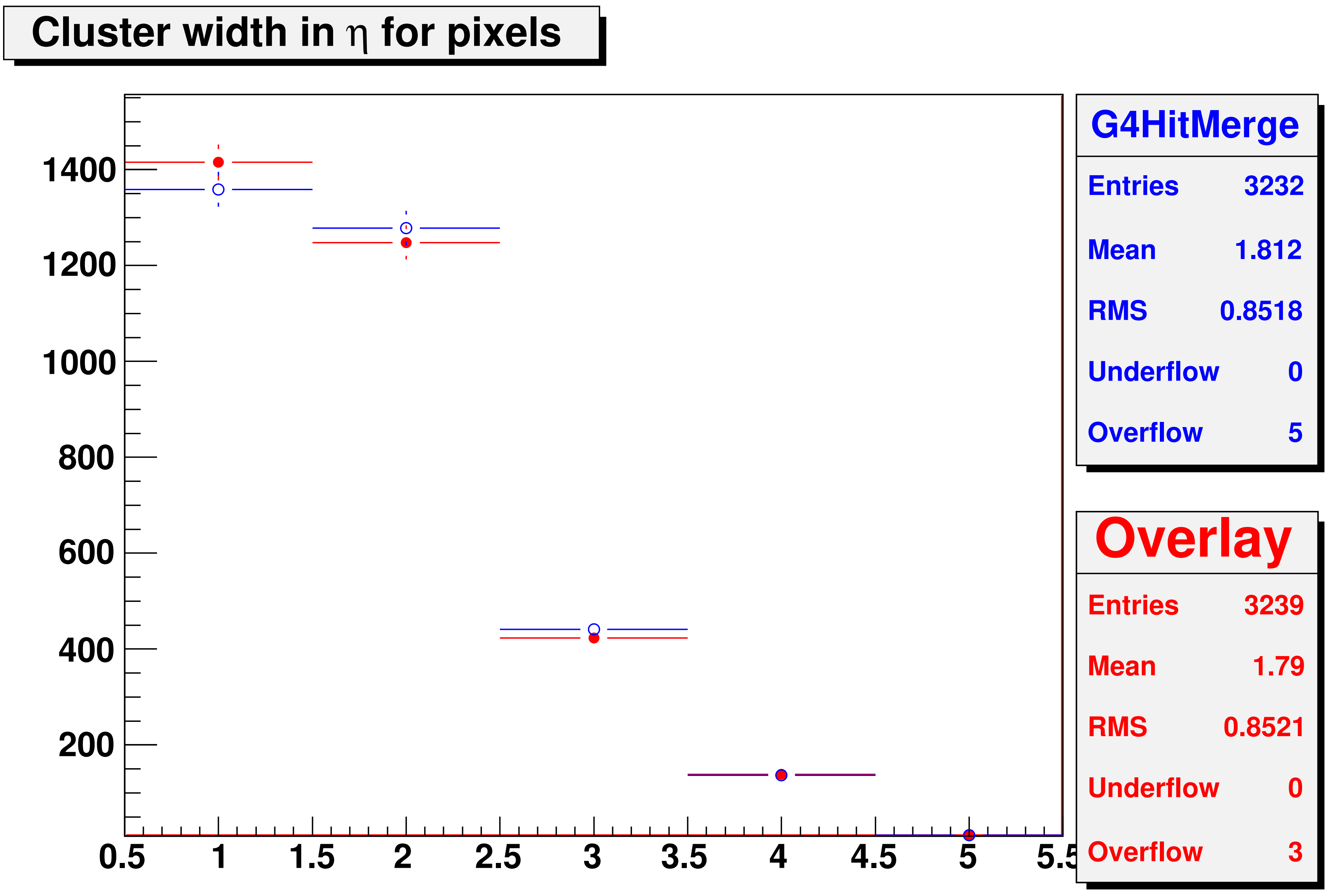


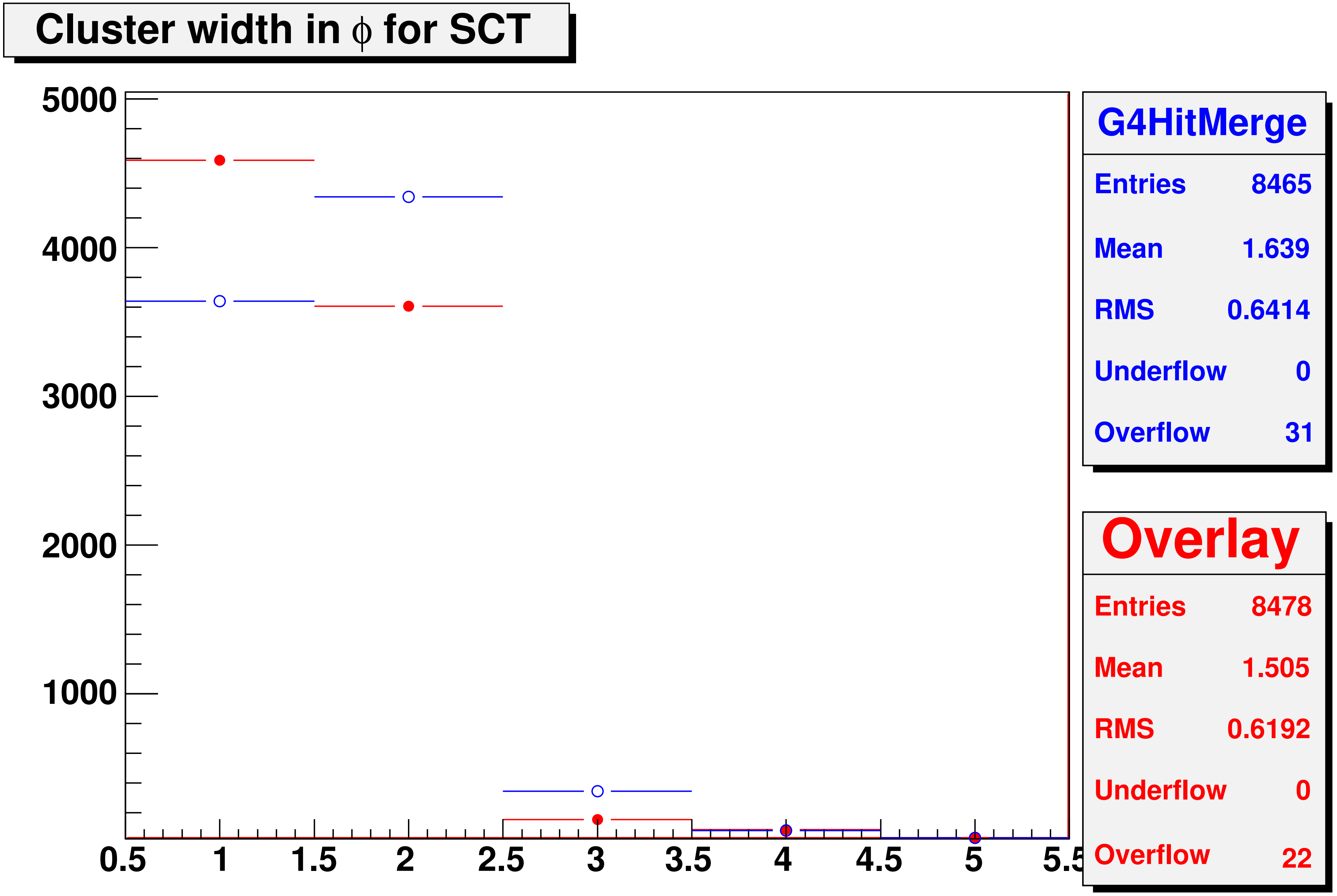
TRT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1003
Mean x −0.01894
Mean y 0.004895
RMS x 1.16
RMS y 1.815
0 0 0
0 26781 0
0 0 0



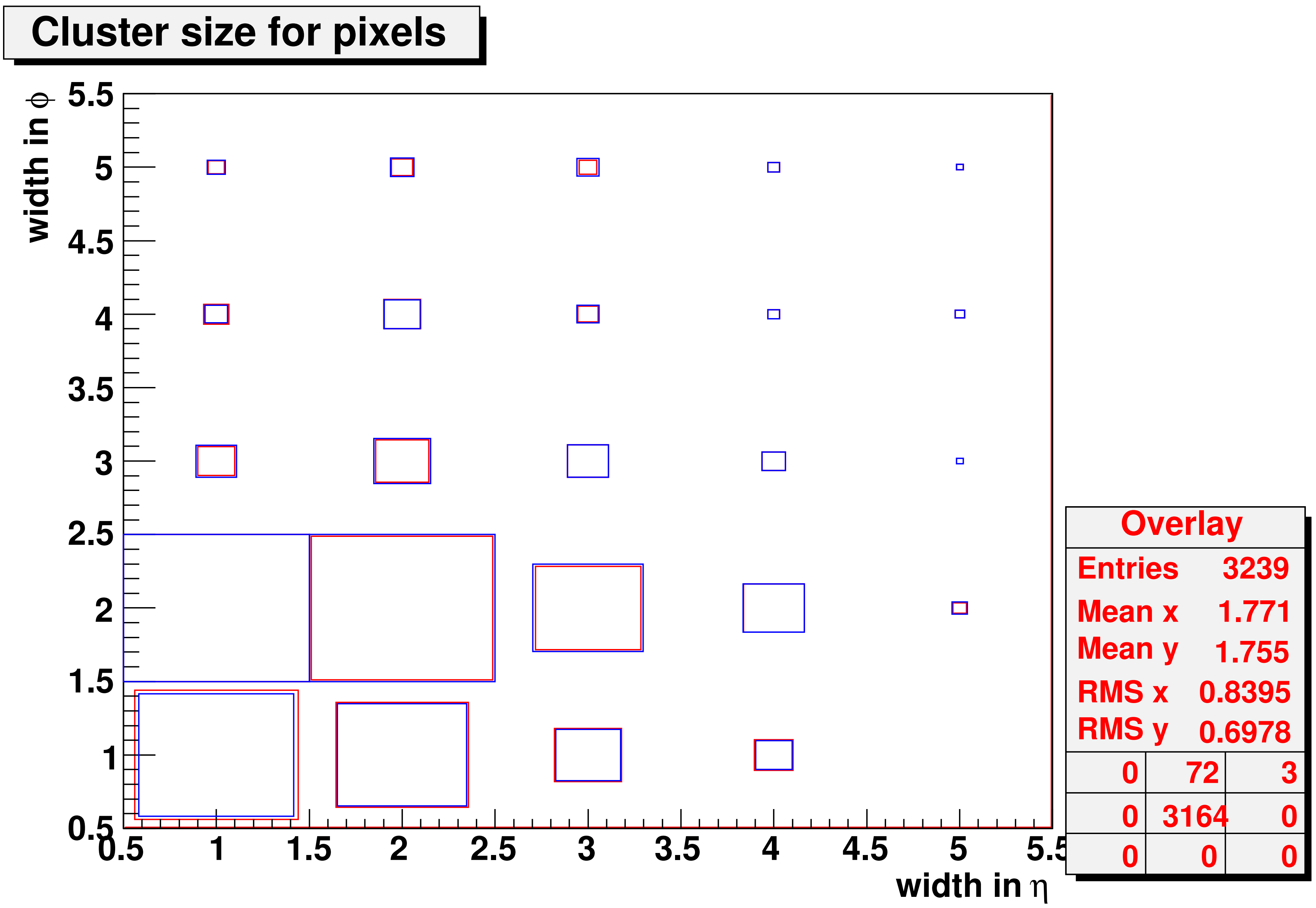
Cluster map plot RZ
z(mm)
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000
r(mm)
Overlay
Entries 38503
Mean x −21.63
Mean y 658
RMS x 1211
RMS y 259.3
0 0 0
0 38503 0
0 0 0

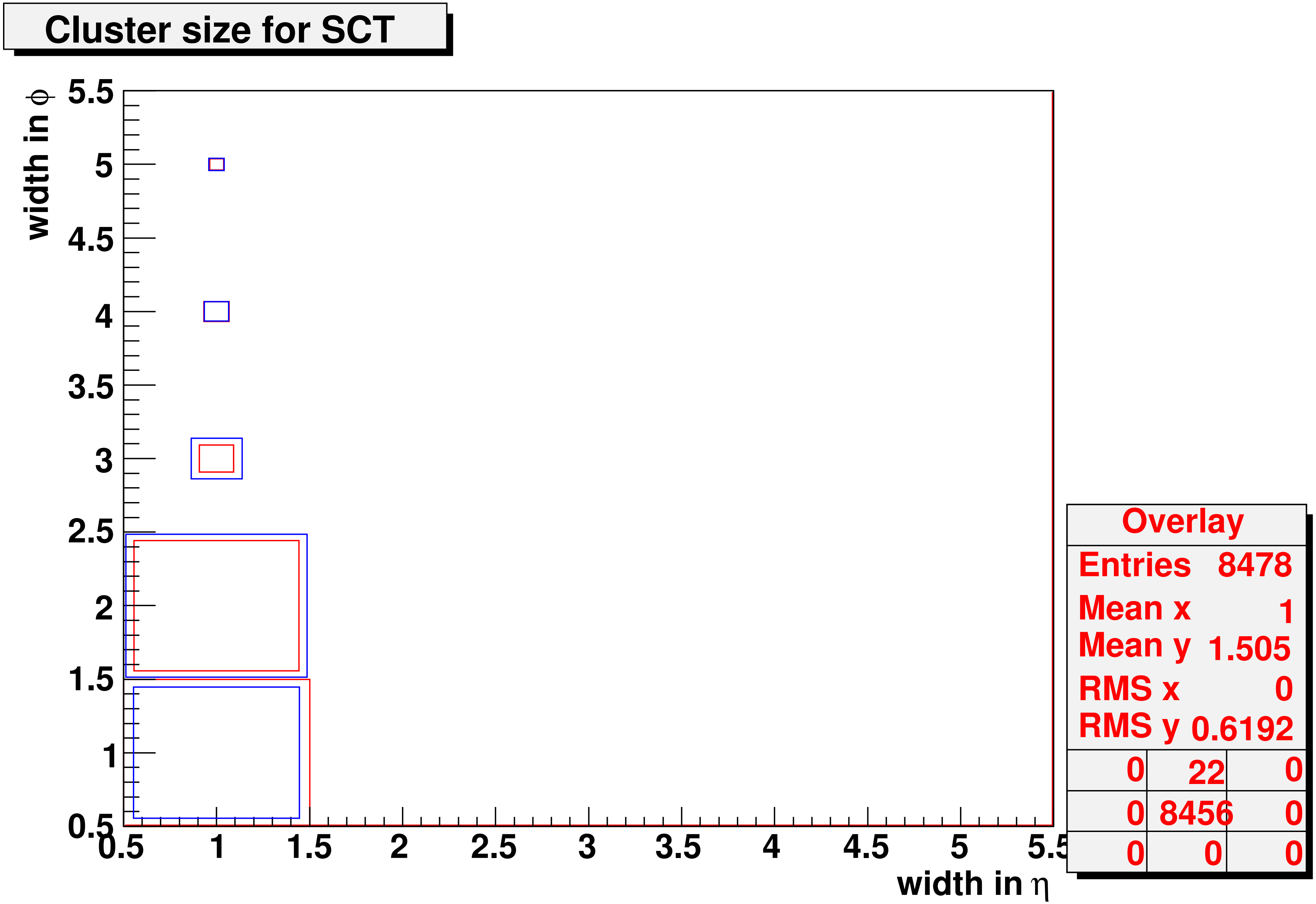

Cluster width in ϕ for pixels
2000
1800
1600
1400
1200
1000
800
600
400
200
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 3232
Mean 1.794
RMS 0.7055
Underflow 0
Overflow 67
Overlay
Entries 3239
Mean 1.755
RMS 0.6978
Underflow 0
Overflow 75


Cluster width in η for pixels
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 3232
Mean 1.812
RMS 0.8518
Underflow 0
Overflow 5
Overlay
Entries 3239
Mean 1.79
RMS 0.8521
Underflow 0
Overflow 3

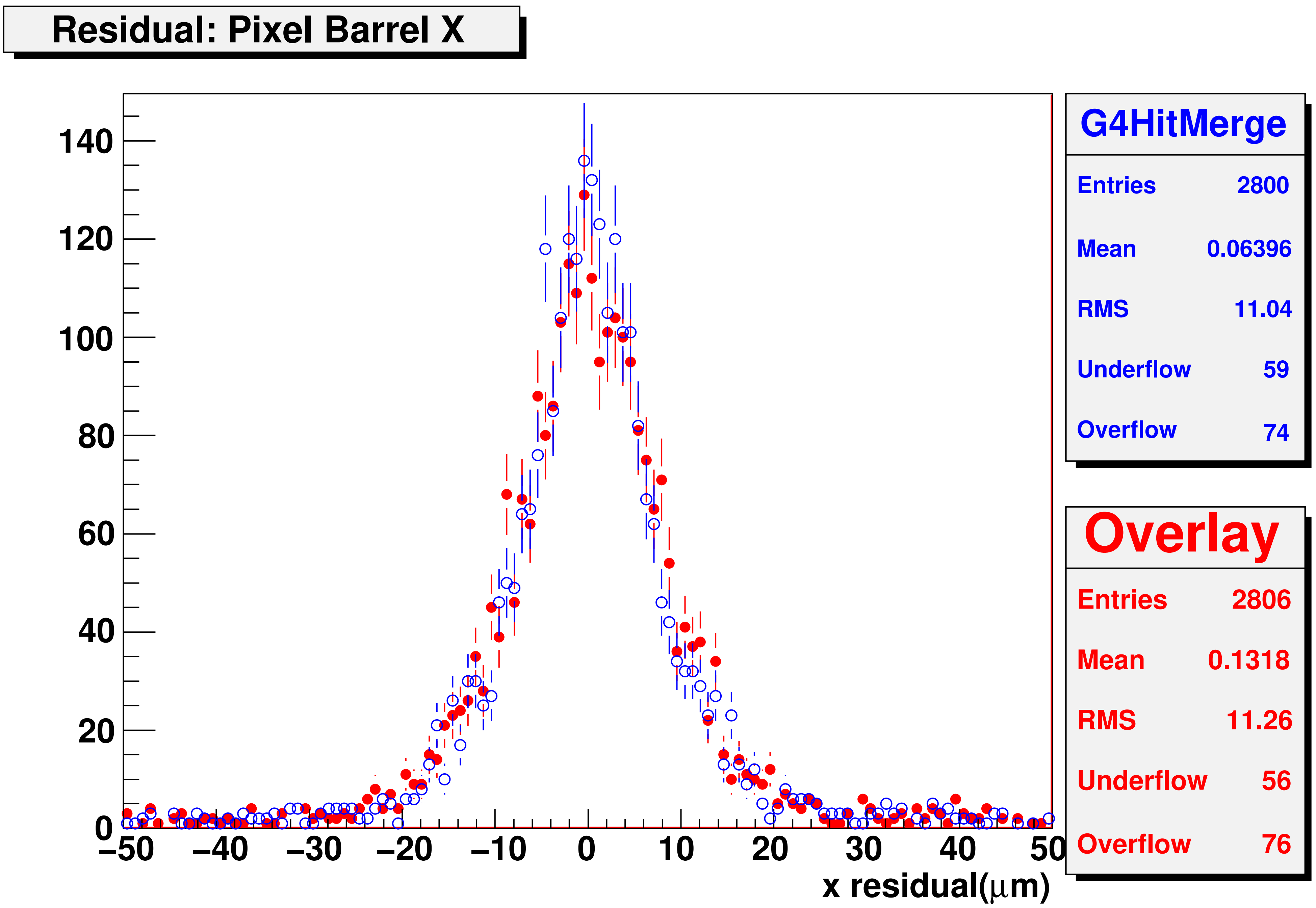


Cluster width in ϕ for SCT
5000
4000
3000
2000
1000
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 8465
Mean 1.639
RMS 0.6414
Underflow 0
Overflow 31
Overlay
Entries 8478
Mean 1.505
RMS 0.6192
Underflow 0
Overflow 22

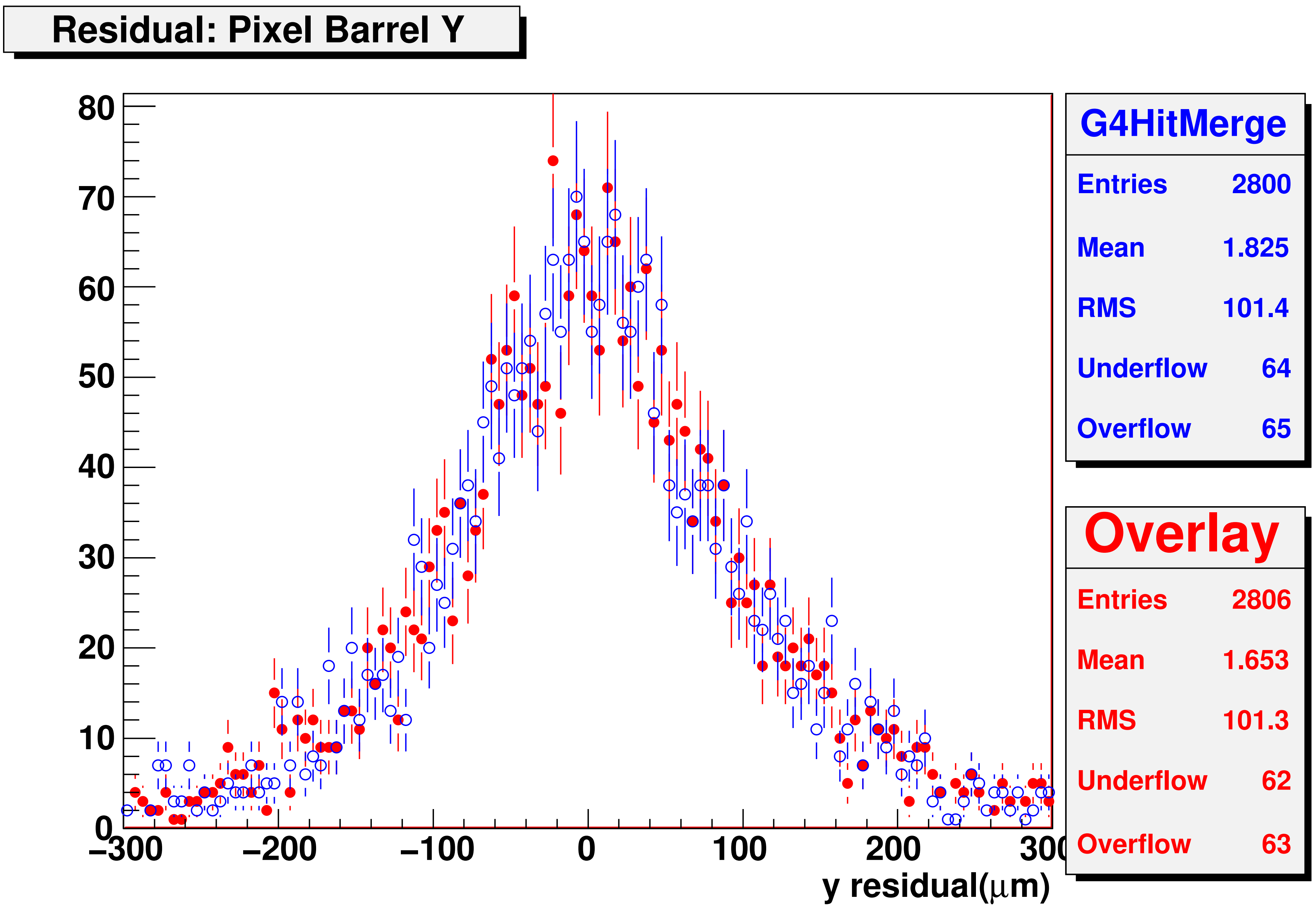

Cluster size for pixels
width in ϕ
width in η
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 3239
Mean x 1.771
Mean y 1.755
RMS x 0.8395
RMS y 0.6978
0 72 3
0 3164 0
0 0 0



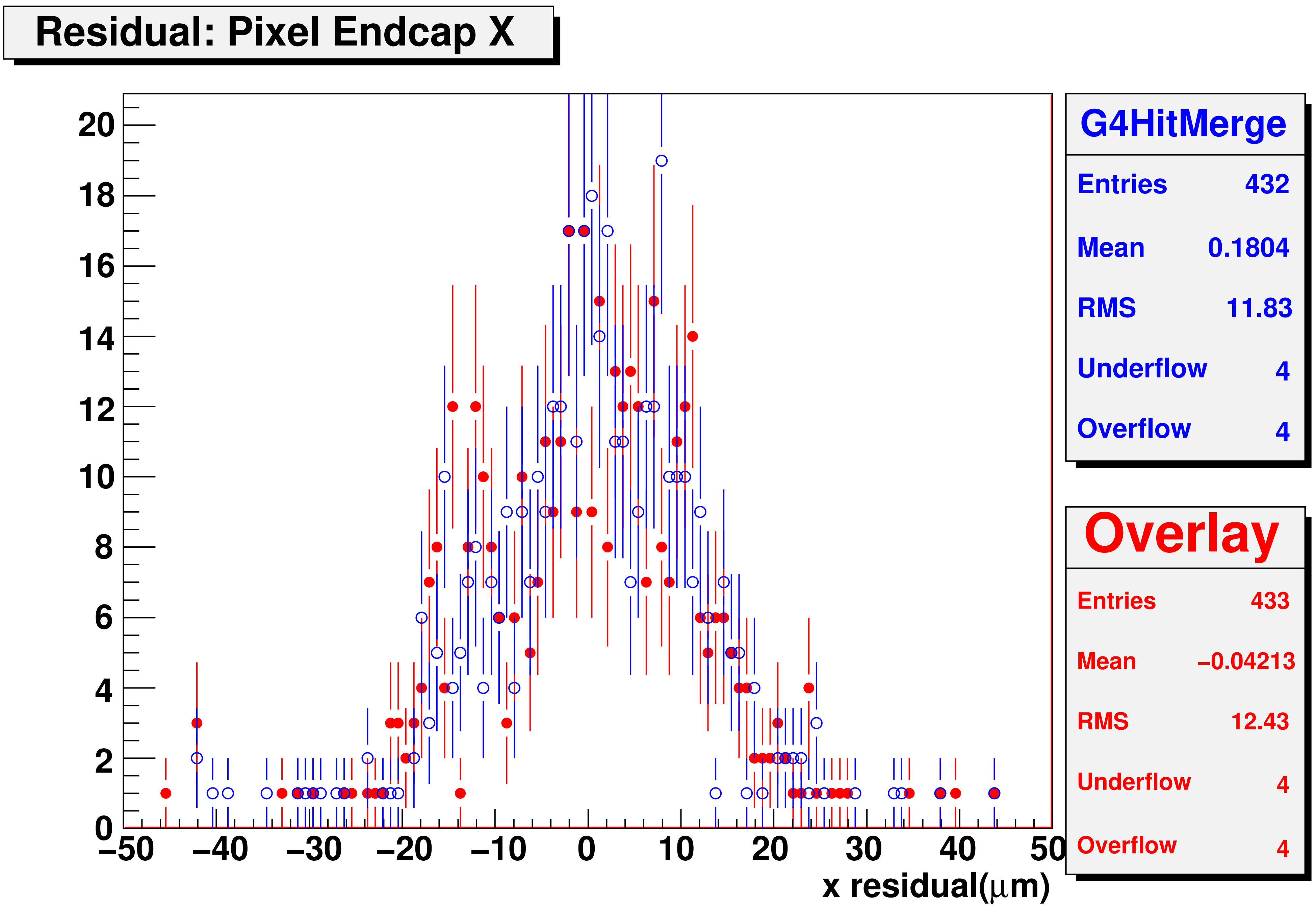
Cluster size for SCT
width in ϕ
width in η
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 8478
Mean x 1
Mean y 1.505
RMS x 0
RMS y 0.6192
0 22 0
0 8456 0
0 0 0



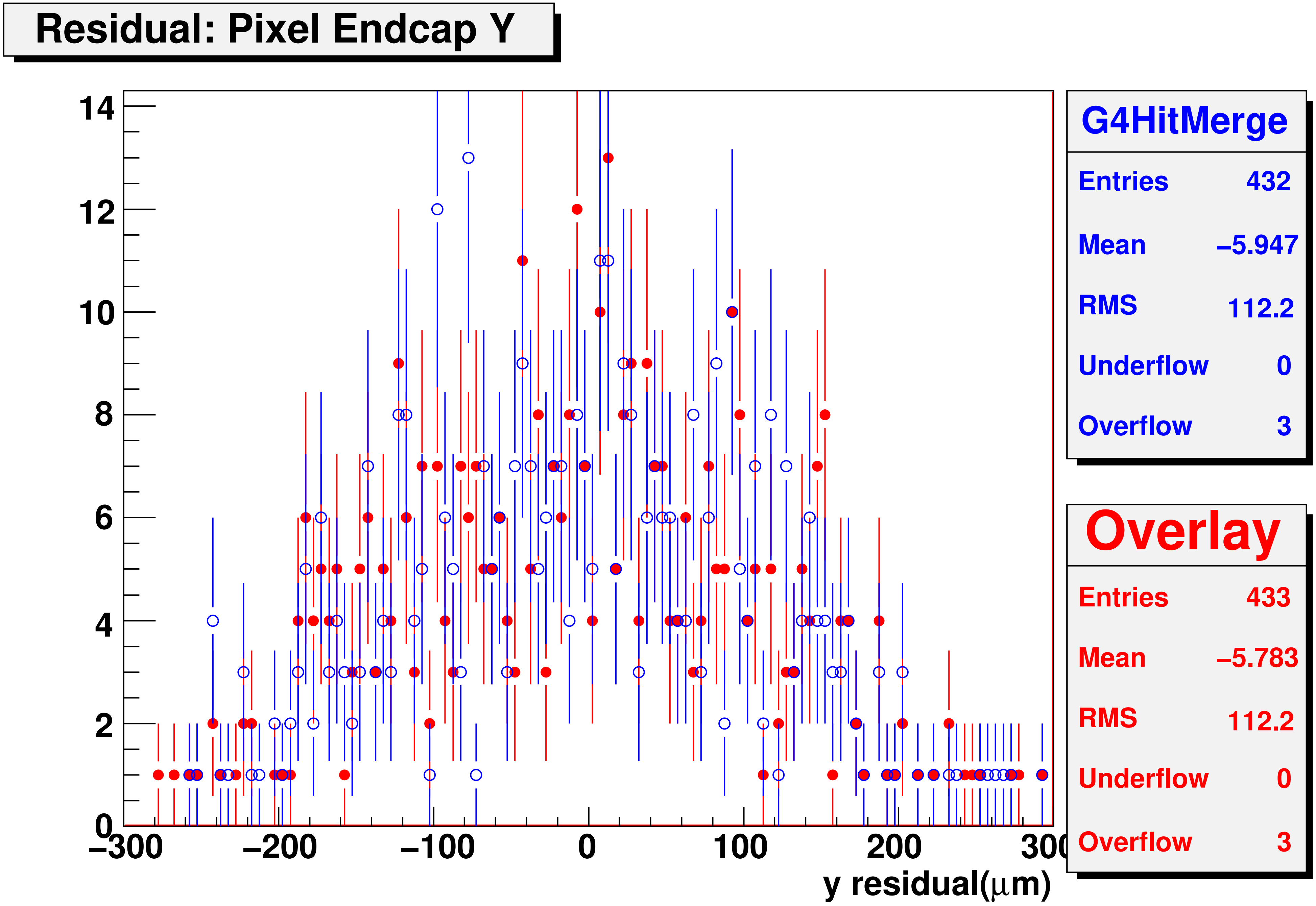
Residual: Pixel Barrel X
G4HitMerge
Entries 2800
Mean 0.06396
RMS 11.04
Underflow 59
Overflow 74
Overlay
Entries 2806
Mean 0.1318
RMS 11.26
Underflow 56
Overflow 76
x residual(μm)



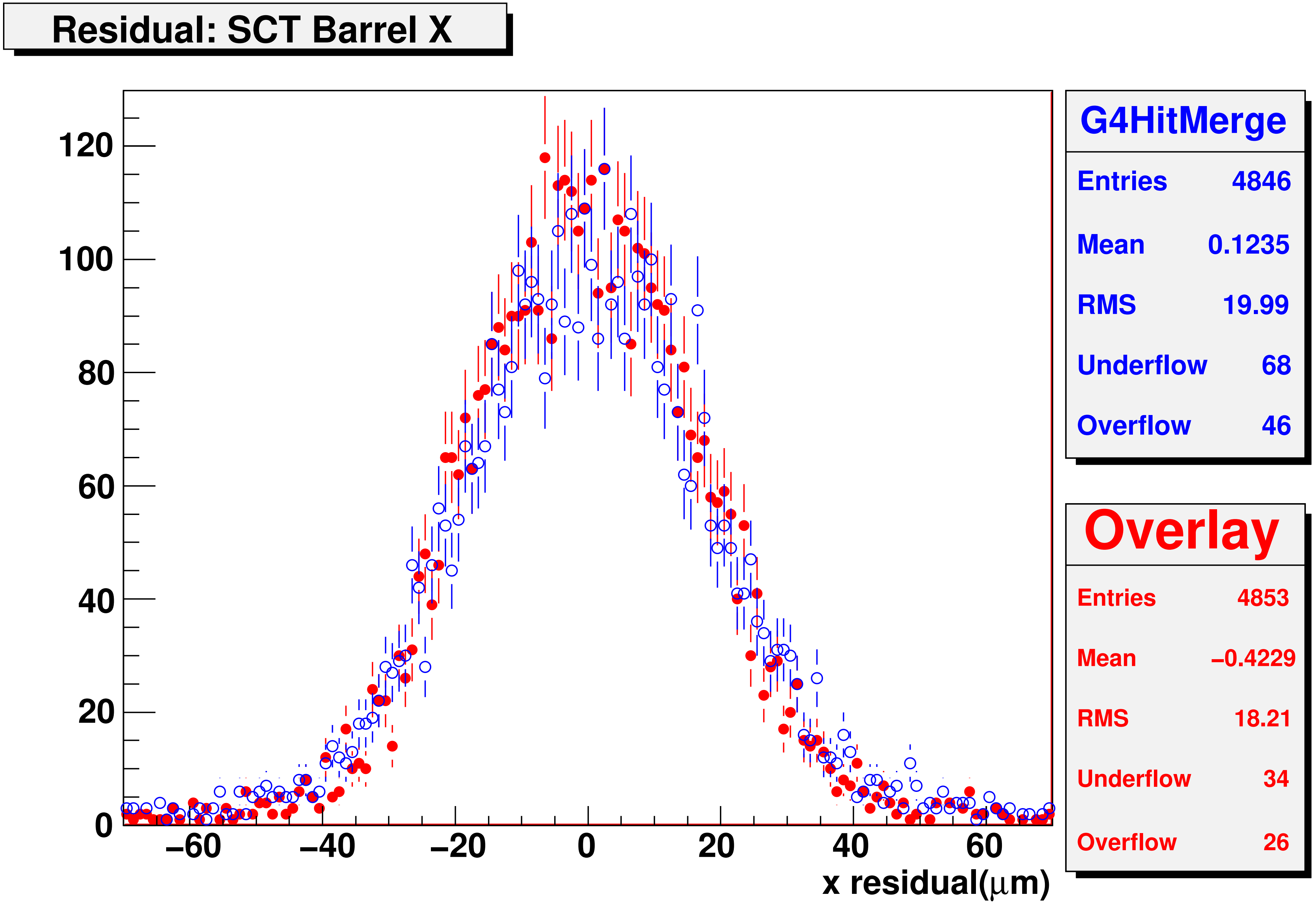
Residual: Pixel Barrel Y
G4HitMerge
Entries 2800
Mean 1.825
RMS 101.4
Underflow 64
Overflow 65
Overlay
Entries 2806
Mean 1.653
RMS 101.3
Underflow 62
Overflow 63
y residual(μm)

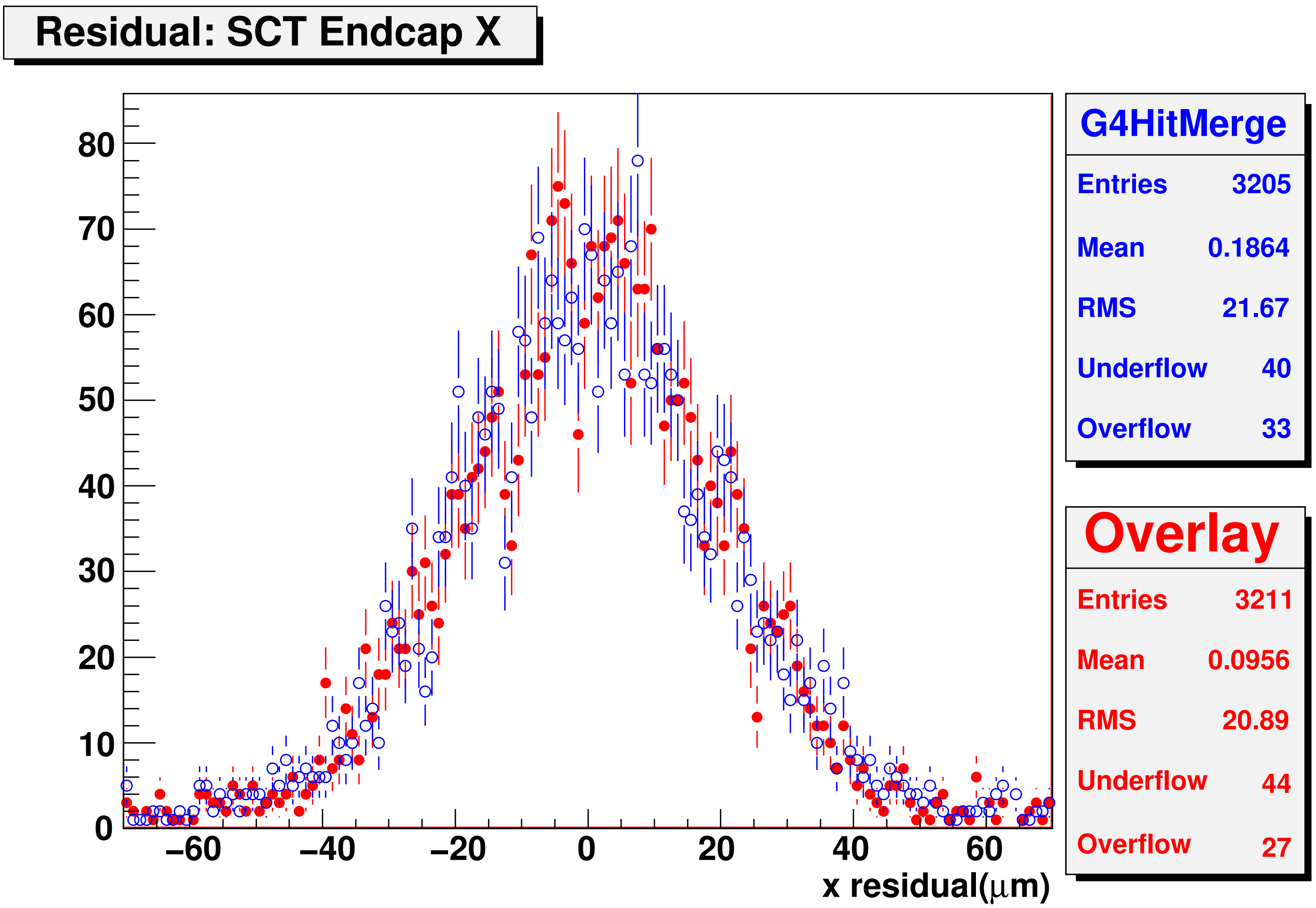


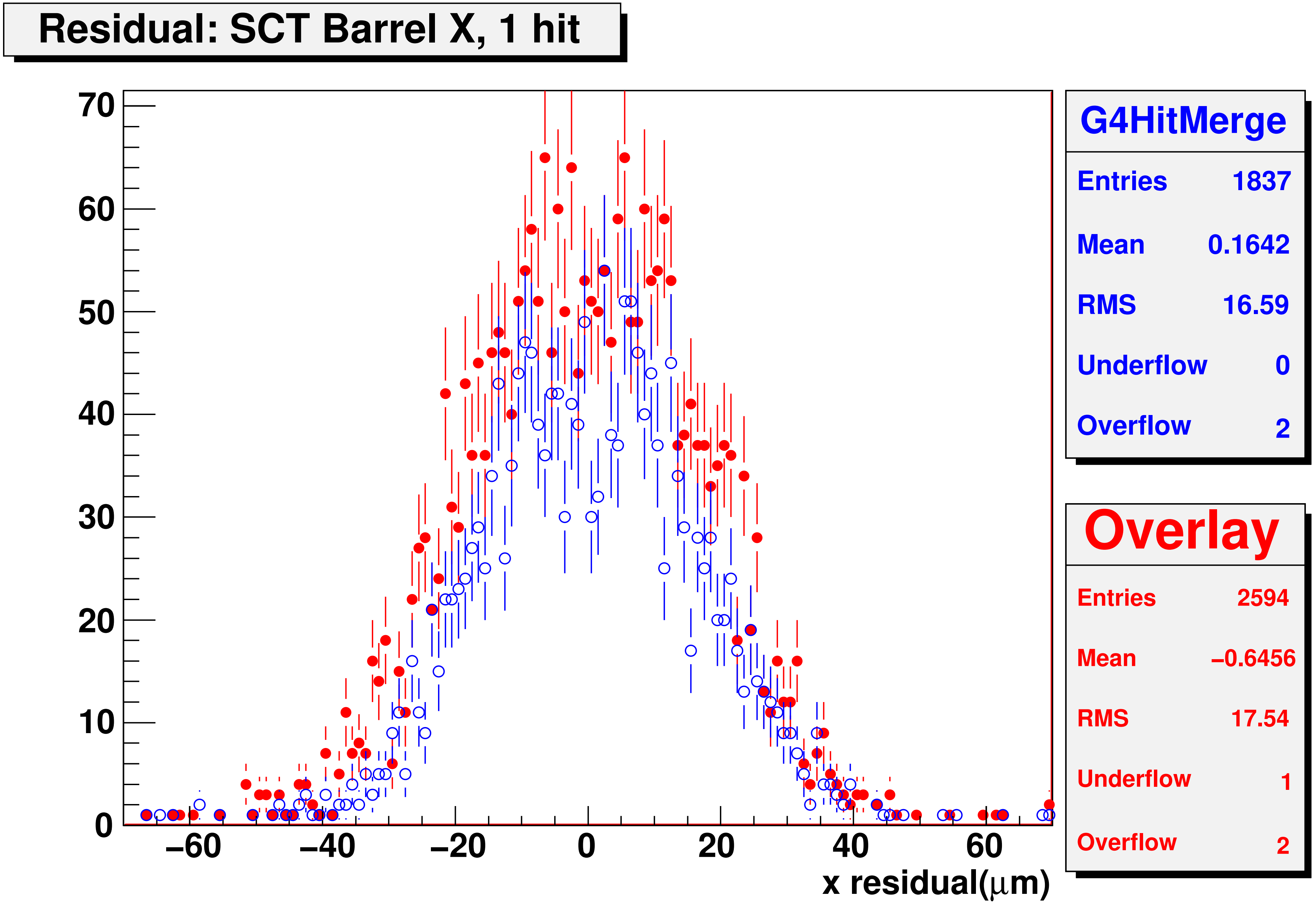
Residual: Pixel Endcap X
G4HitMerge
Entries 432
Mean 0.1804
RMS 11.83
Underflow 4
Overflow 4
Overlay
Entries 433
Mean –0.04213
RMS 12.43
Underflow 4
Overflow 4
x residual(μm)
0
2
4
6
8
10
12
14
16
18
20
–50
–40
–30
–20
–10
0
10
20
30
40
50

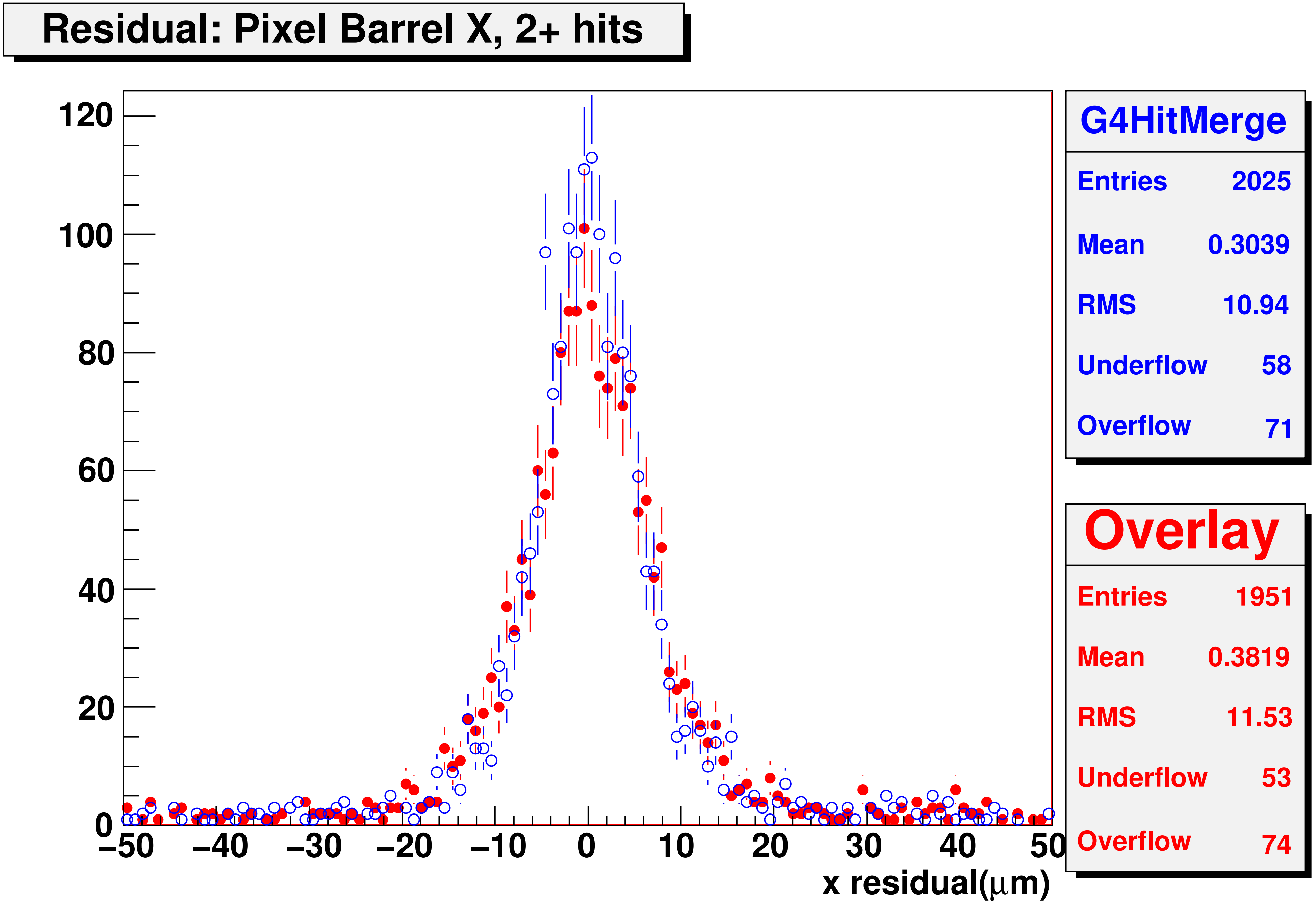


Residual: Pixel Endcap Y
G4HitMerge
Entries 432
Mean –5.947
RMS 112.2
Underflow 0
Overflow 3
Overlay
Entries 433
Mean –5.783
RMS 112.2
Underflow 0
Overflow 3
14
12
10
8
6
4
2
0
–300
–200
–100
0
100
200
300
y residual(μm)

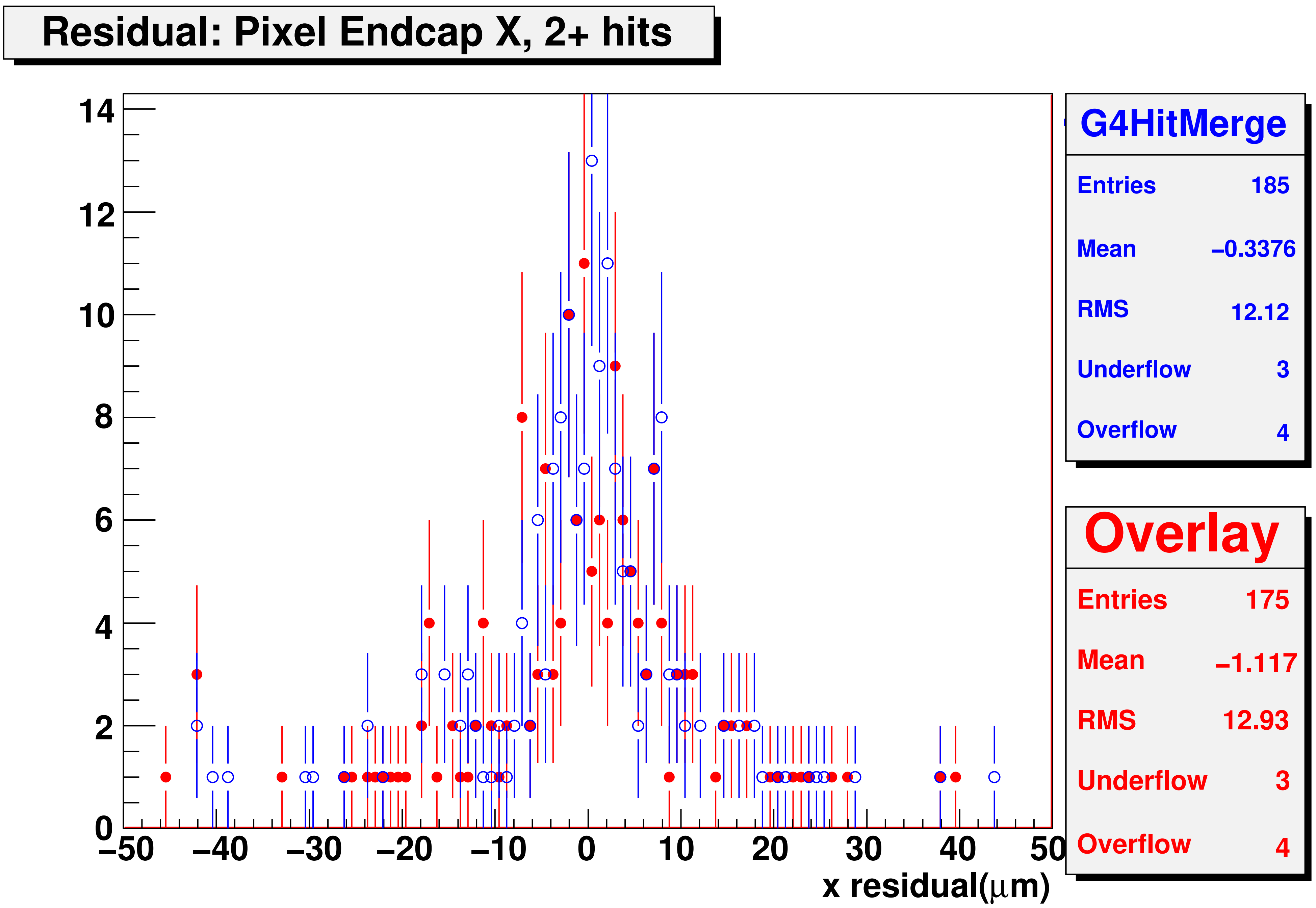

Residual: SCT Barrel X
G4HitMerge
Entries 4846
Mean 0.1235
RMS 19.99
Underflow 68
Overflow 46
Overlay
Entries 4853
Mean −0.4229
RMS 18.21
Underflow 34
Overflow 26
0
20
40
60
80
100
120
−60
−40
−20
0
20
40
60
x residual(μm)

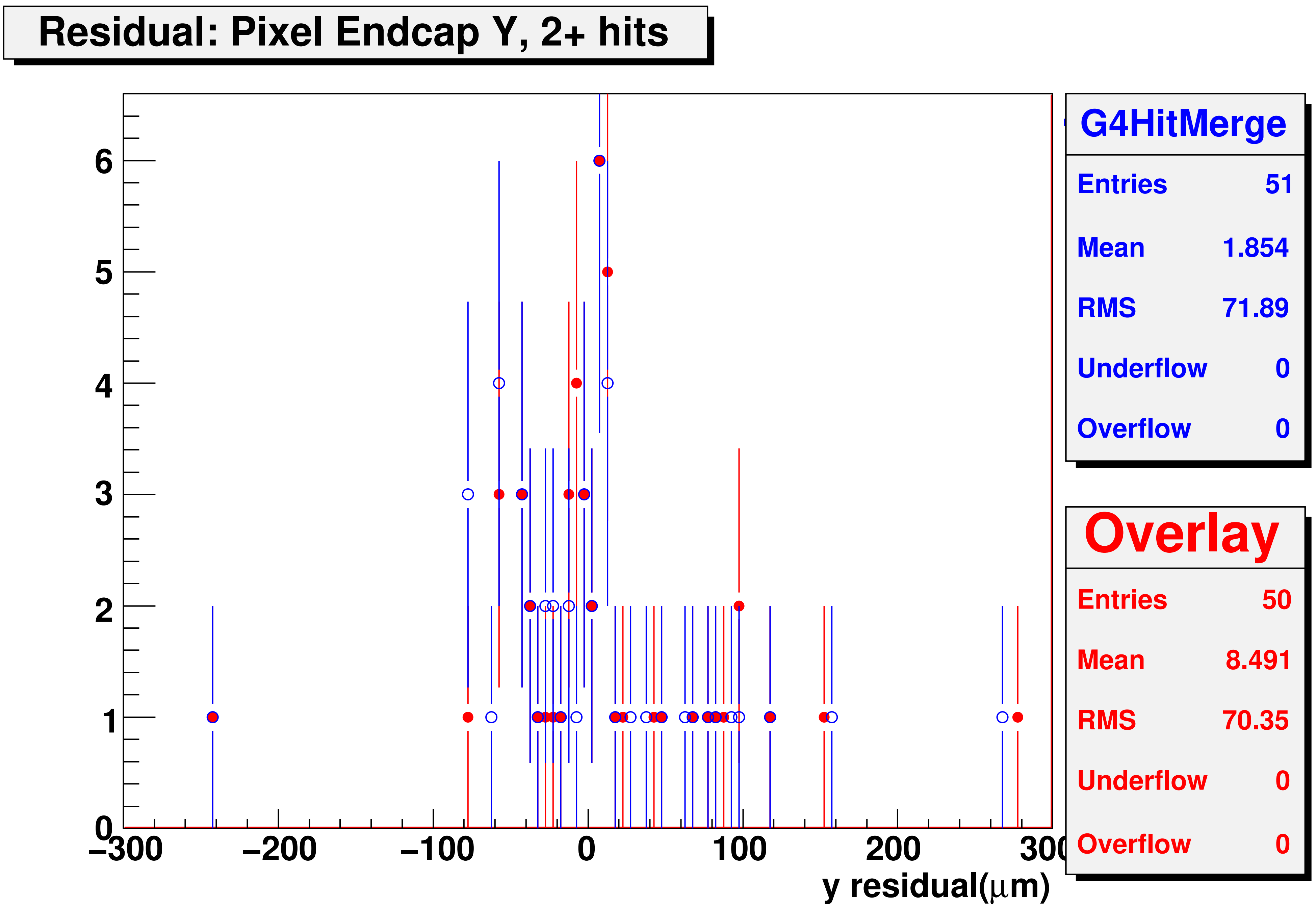

Residual: SCT Endcap X
G4HitMerge
Entries 3205
Mean 0.1864
RMS 21.67
Underflow 40
Overflow 33
Overlay
Entries 3211
Mean 0.0956
RMS 20.89
Underflow 44
Overflow 27
0
10
20
30
40
50
60
70
80
−60
−40
−20
0
20
40
60
x residual(μm)

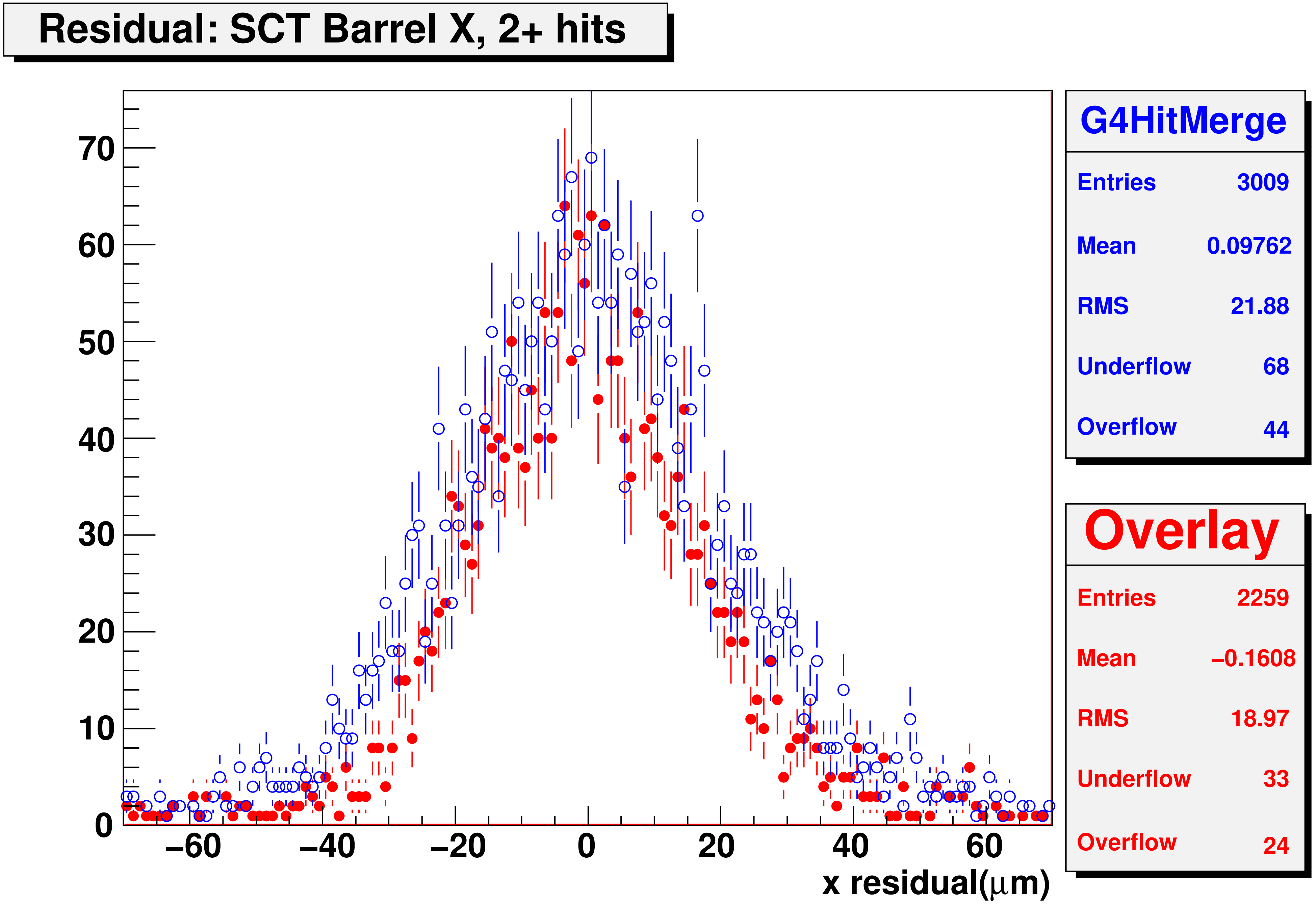

Residual: SCT Barrel X, 1 hit
G4HitMerge
Entries 1837
Mean 0.1642
RMS 16.59
Underflow 0
Overflow 2
Overlay
Entries 2594
Mean −0.6456
RMS 17.54
Underflow 1
Overflow 2
x residual(μm)
0
10
20
30
40
50
60
70
−60
−40
−20
0
20
40
60



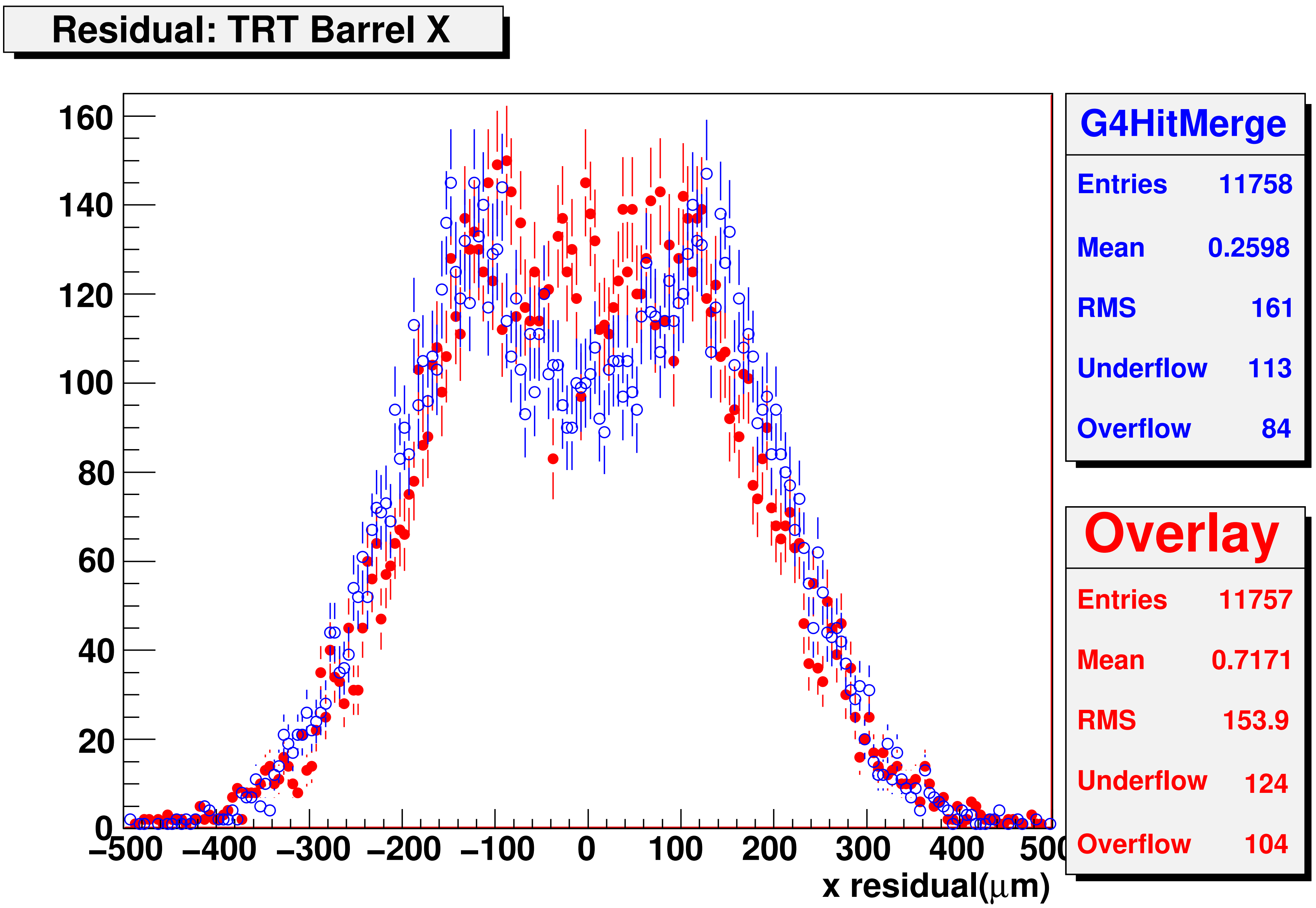
Residual: Pixel Barrel X, 2+ hits
120
100
80
60
40
20
0
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 2025
Mean 0.3039
RMS 10.94
Underflow 58
Overflow 71
Overlay
Entries 1951
Mean 0.3819
RMS 11.53
Underflow 53
Overflow 74

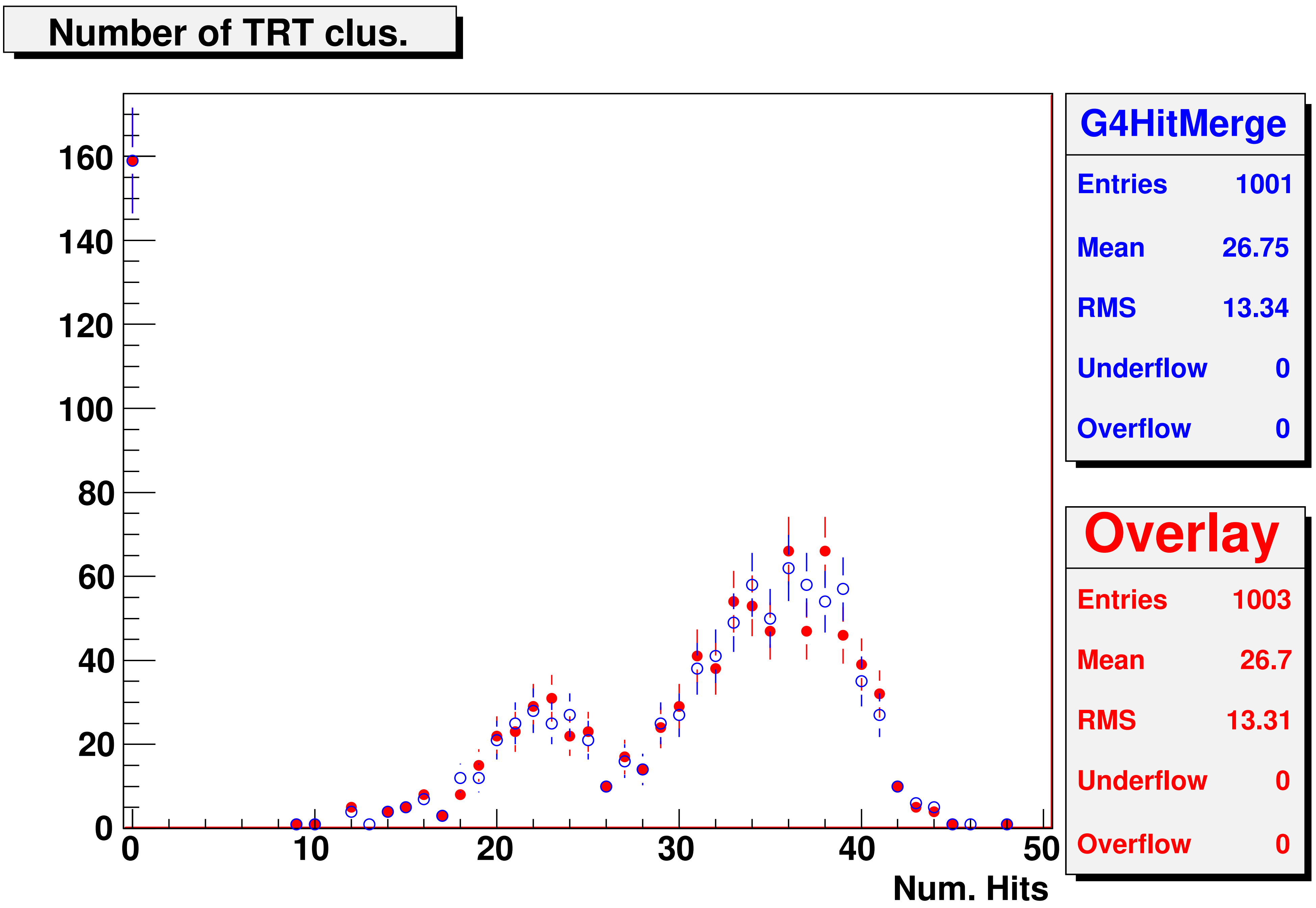

Residual: Pixel Endcap X, 2+ hits
14
12
10
8
6
4
2
0
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 185
Mean −0.3376
RMS 12.12
Underflow 3
Overflow 4
Overlay
Entries 175
Mean −1.117
RMS 12.93
Underflow 3
Overflow 4

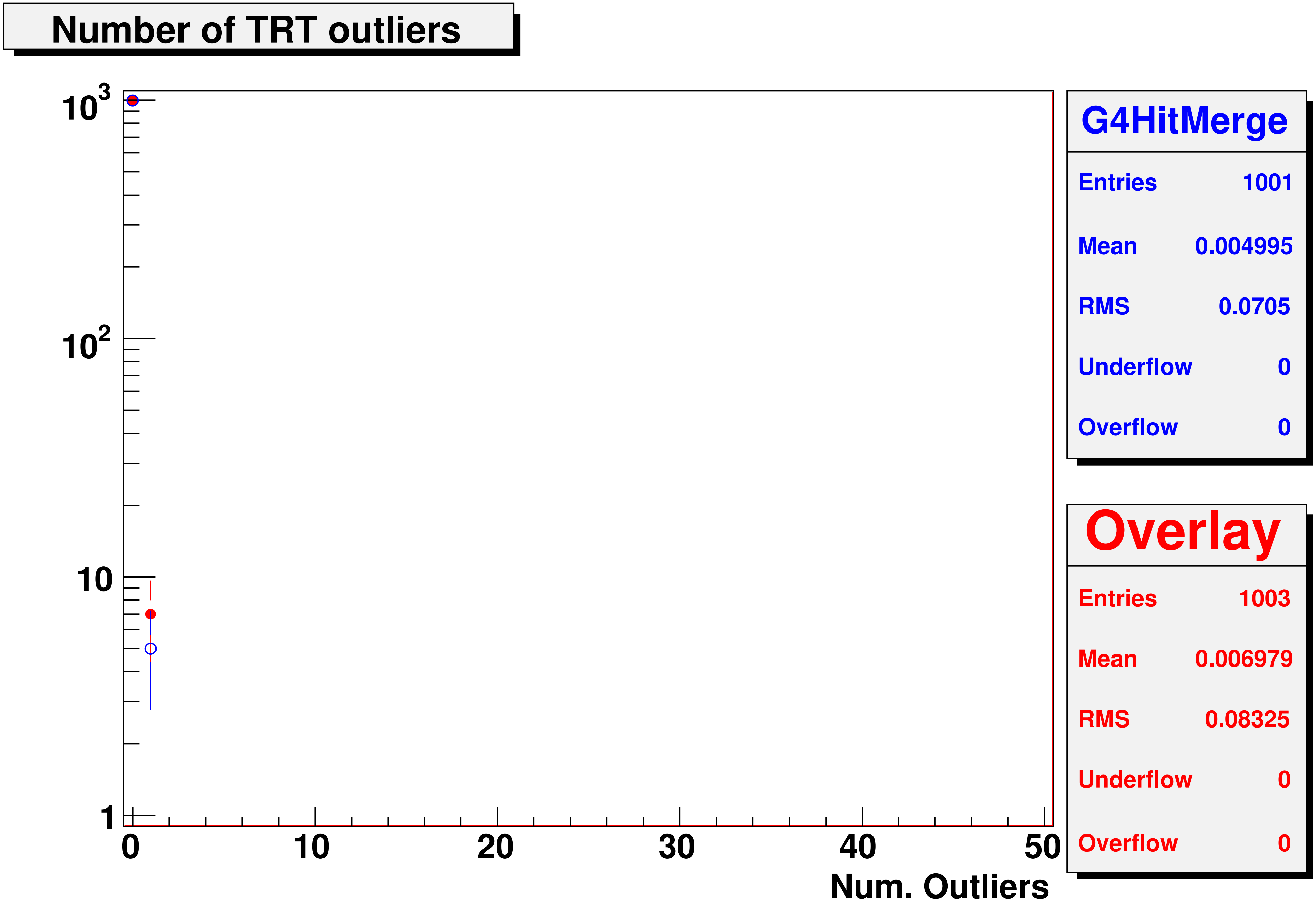

Residual: Pixel Endcap Y, 2+ hits
0
1
2
3
4
5
6
-300
-200
-100
0
100
200
300
y residual(μm)
G4HitMerge
Entries 51
Mean 1.854
RMS 71.89
Underflow 0
Overflow 0
Overlay
Entries 50
Mean 8.491
RMS 70.35
Underflow 0
Overflow 0

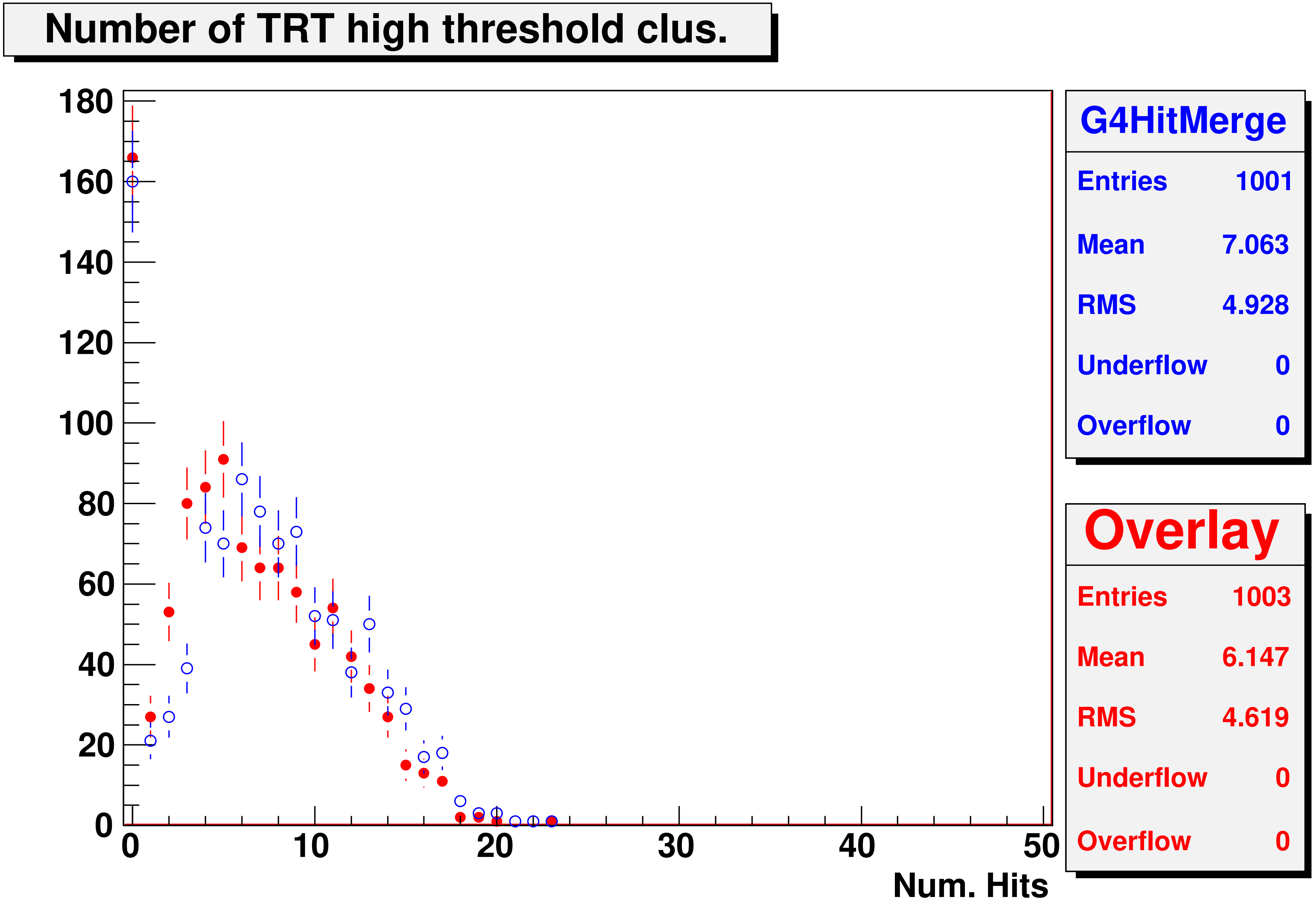


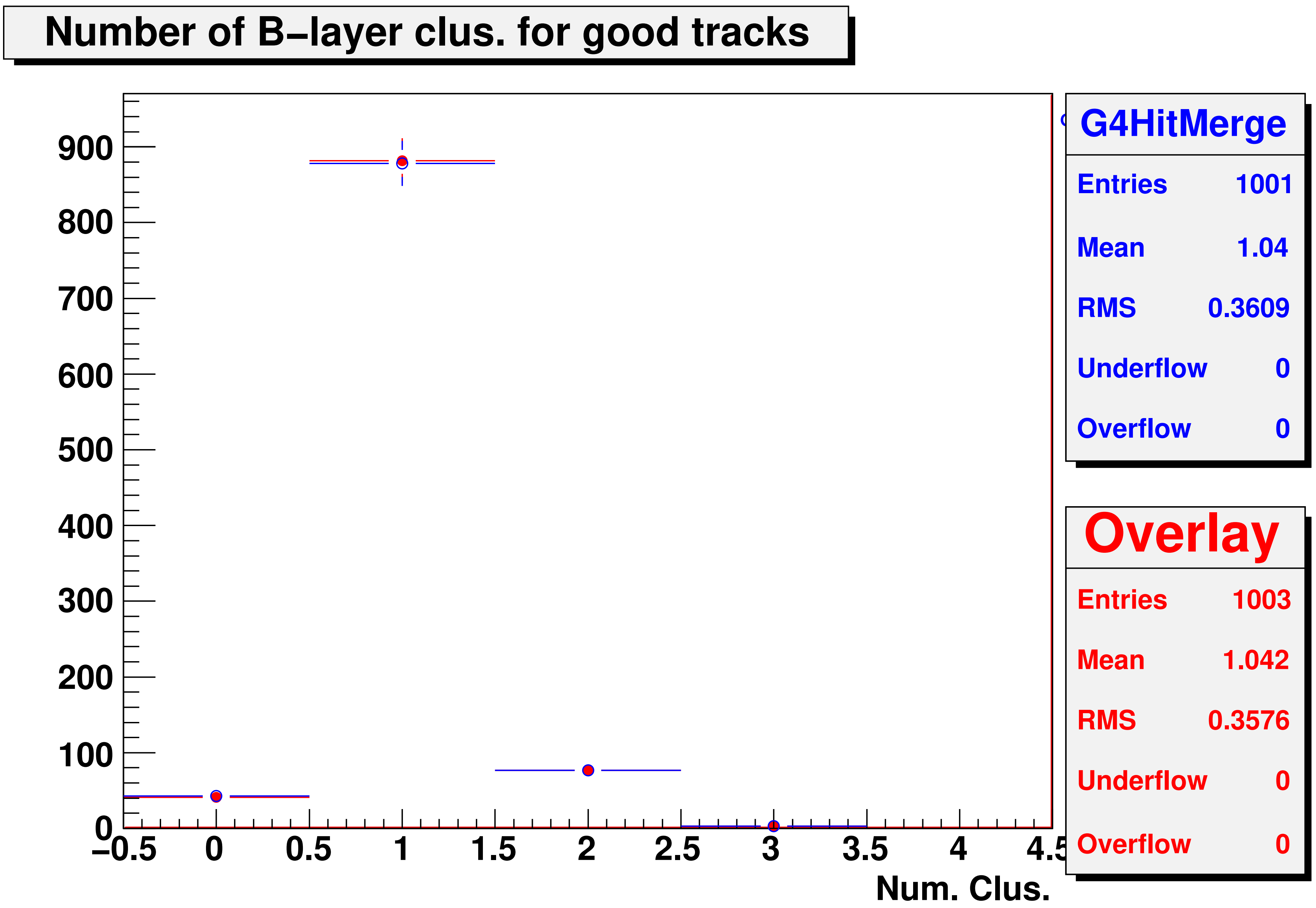
Residual: SCT Barrel X, 2+ hits
G4HitMerge
Entries 3009
Mean 0.09762
RMS 21.88
Underflow 68
Overflow 44
Overlay
Entries 2259
Mean −0.1608
RMS 18.97
Underflow 33
Overflow 24
x residual(μm)
0
10
20
30
40
50
60
70
−60
−40
−20
0
20
40
60


Residual: TRT Barrel X
160
140
120
100
80
60
40
20
0
–500 –400 –300 –200 –100 0 100 200 300 400 500
x residual(μm)
G4HitMerge
Entries 11758
Mean 0.2598
RMS 161
Underflow 113
Overflow 84
Overlay
Entries 11757
Mean 0.7171
RMS 153.9
Underflow 124
Overflow 104

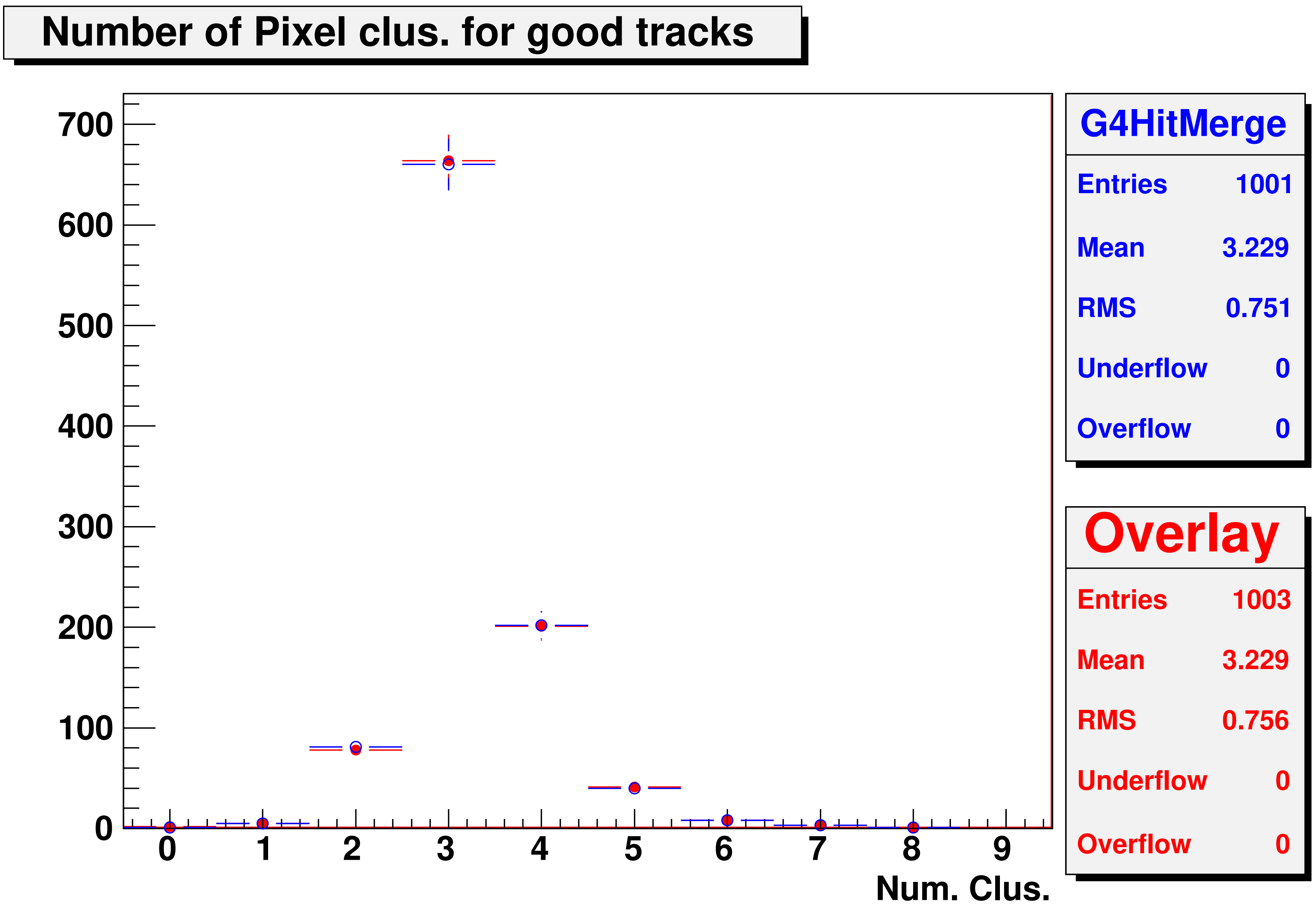

Number of TRT clus.
G4HitMerge
Entries 1001
Mean 26.75
RMS 13.34
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 26.7
RMS 13.31
Underflow 0
Overflow 0
Num. Hits
0
10
20
30
40
50
20
40
60
80
100
120
140
160

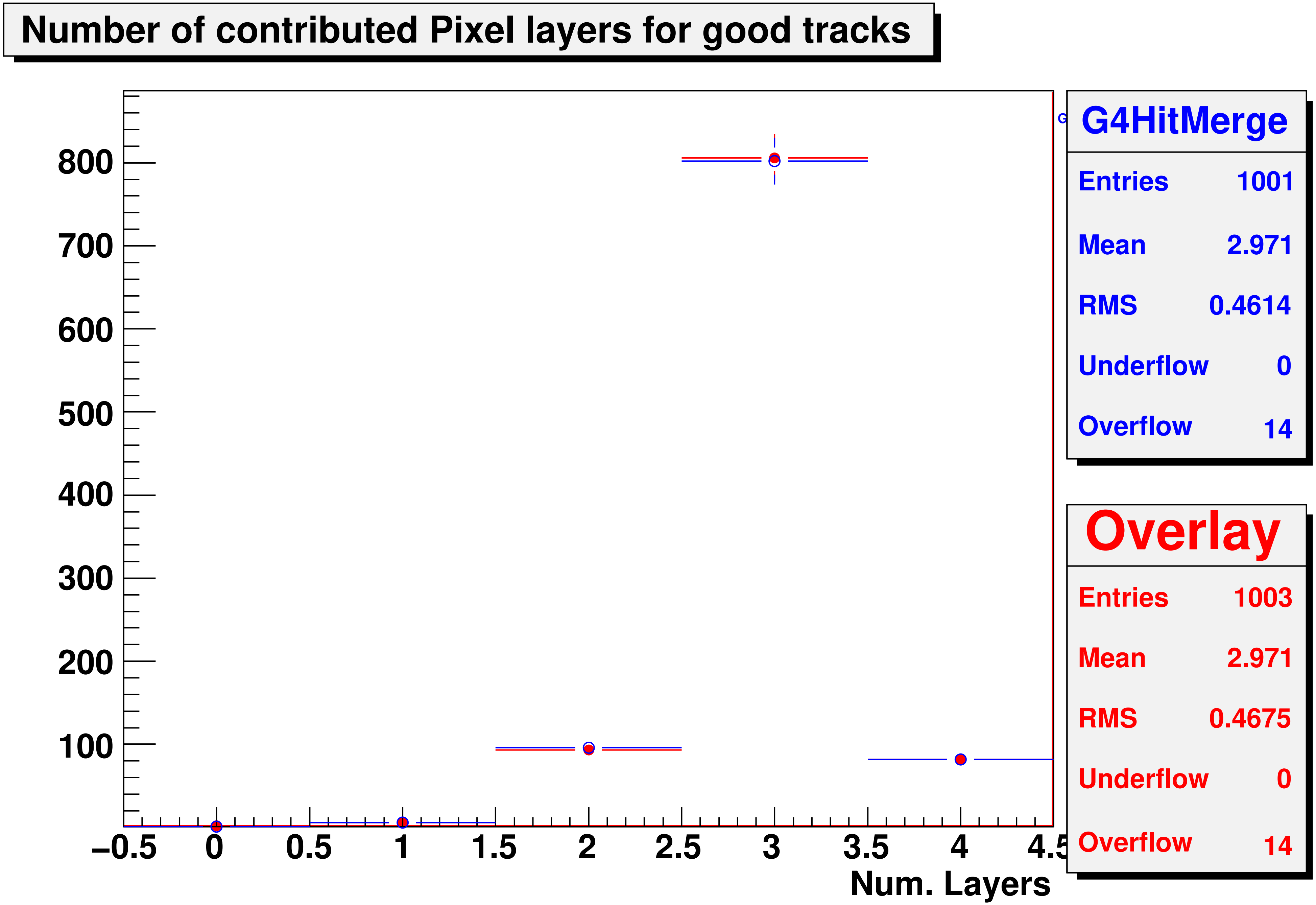

Number of TRT outliers
G4HitMerge
Entries 1001
Mean 0.004995
RMS 0.0705
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 0.006979
RMS 0.08325
Underflow 0
Overflow 0
Num. Outliers
1
10
10^2
10^3
0
10
20
30
40
50


Number of TRT high threshold clus.
G4HitMerge
Entries 1001
Mean 7.063
RMS 4.928
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 6.147
RMS 4.619
Underflow 0
Overflow 0
Num. Hits
0
20
40
60
80
100
120
140
160
180
0
10
20
30
40
50

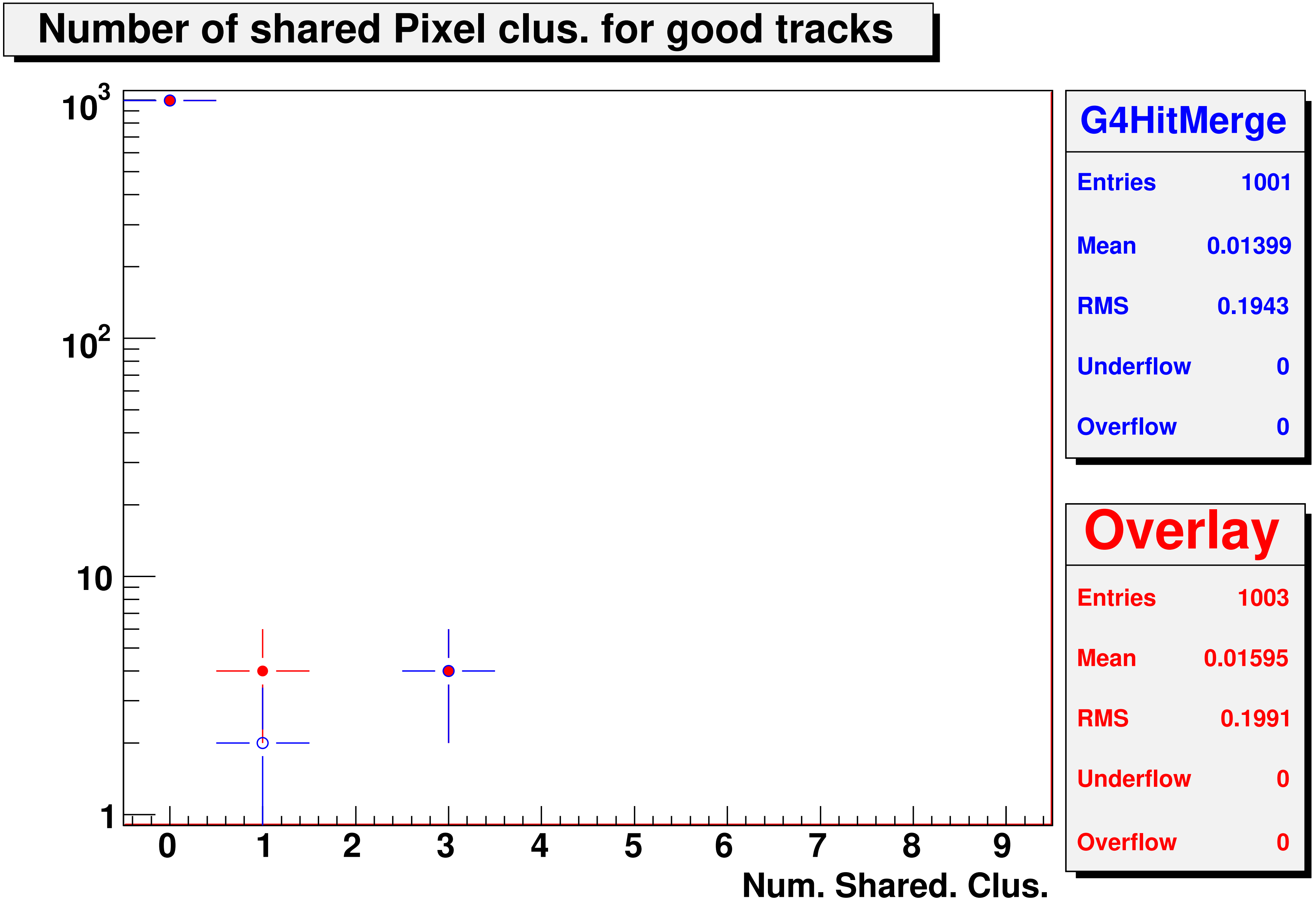


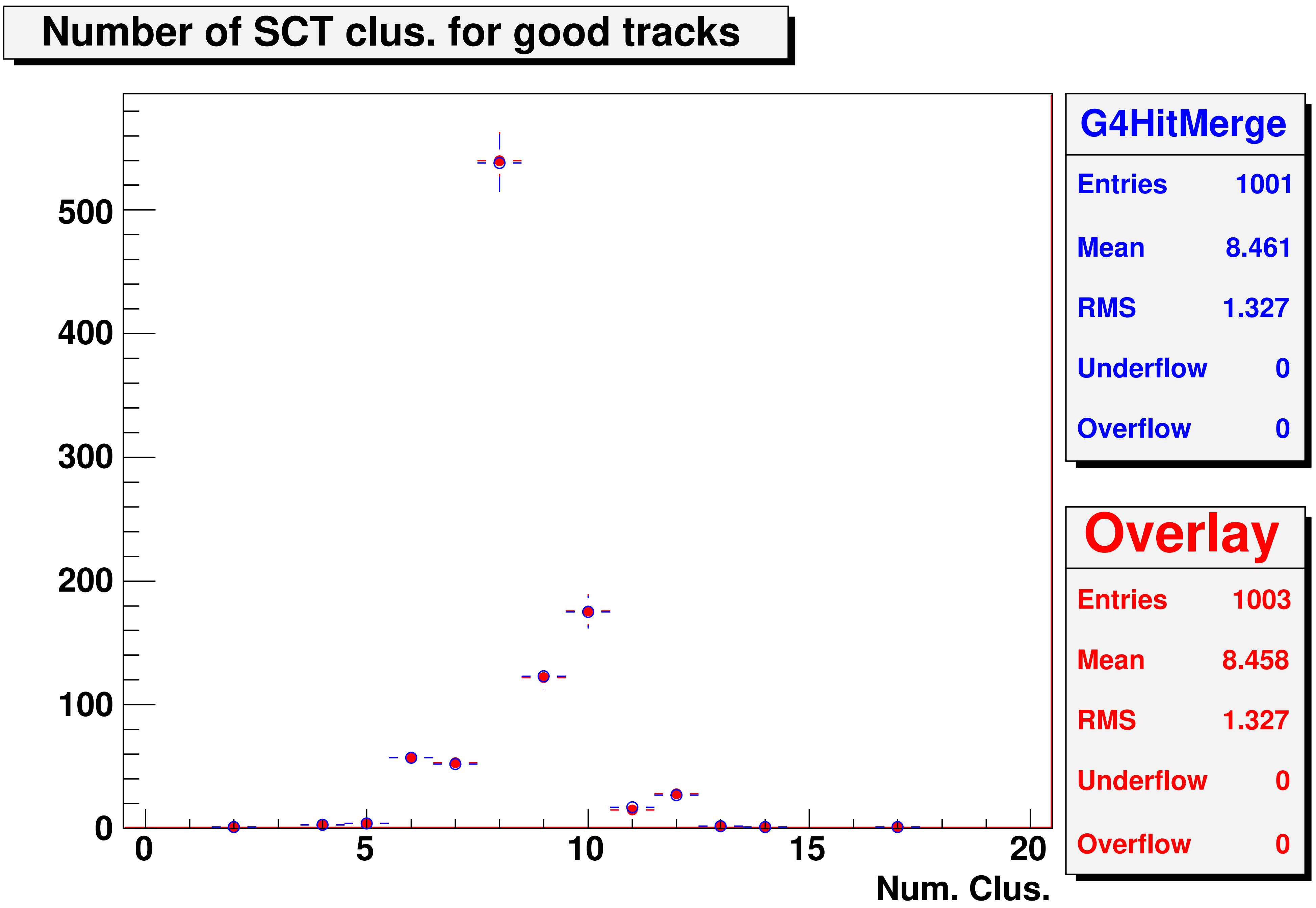
Number of B−layer clus. for good tracks
900
800
700
600
500
400
300
200
100
0
−0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Clus.
G4HitMerge
Entries 1001
Mean 1.04
RMS 0.3609
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 1.042
RMS 0.3576
Underflow 0
Overflow 0


Number of Pixel clus. for good tracks
700
600
500
400
300
200
100
0
0 1 2 3 4 5 6 7 8 9
Num. Clus.
G4HitMerge
Entries 1001
Mean 3.229
RMS 0.751
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 3.229
RMS 0.756
Underflow 0
Overflow 0

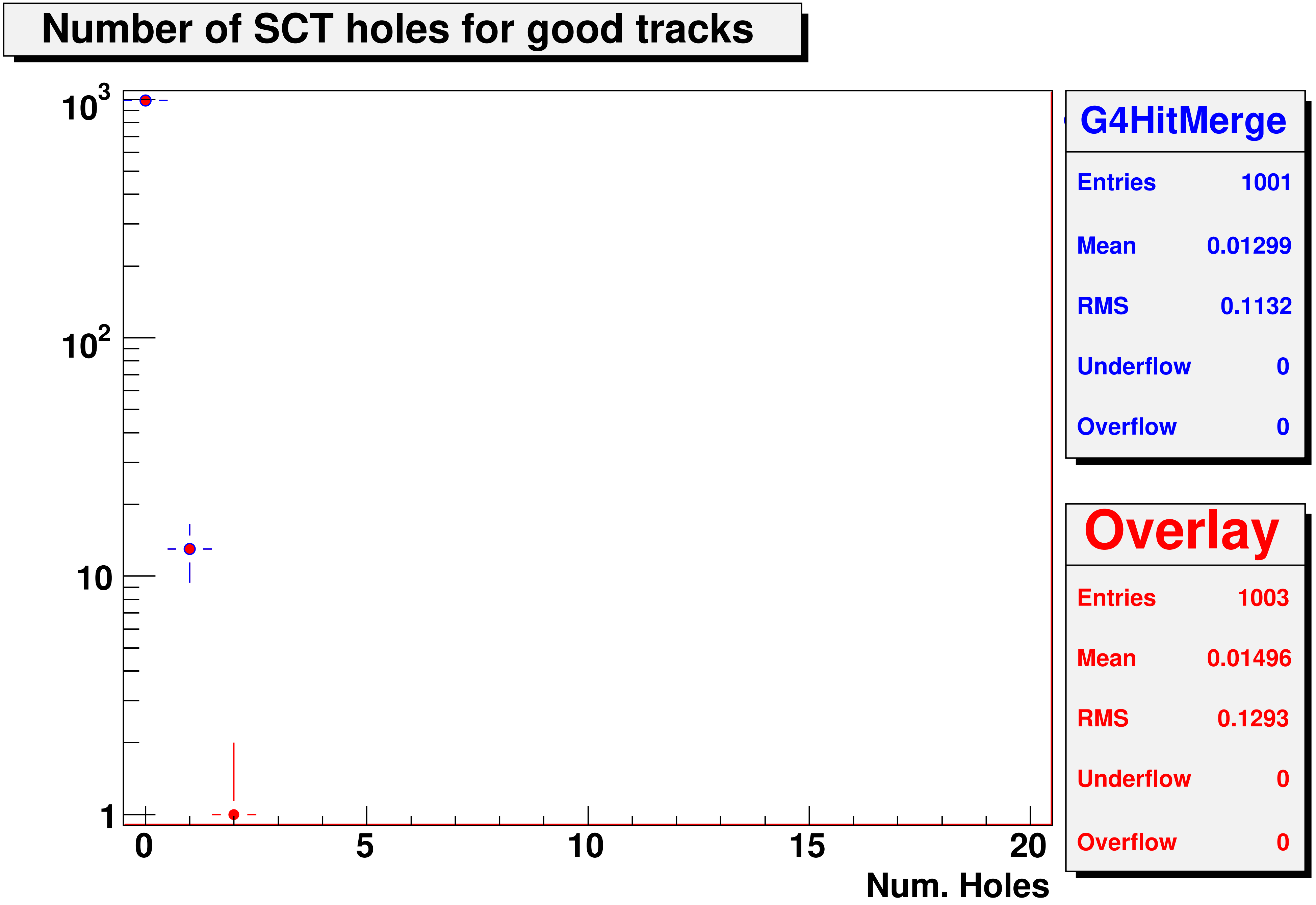


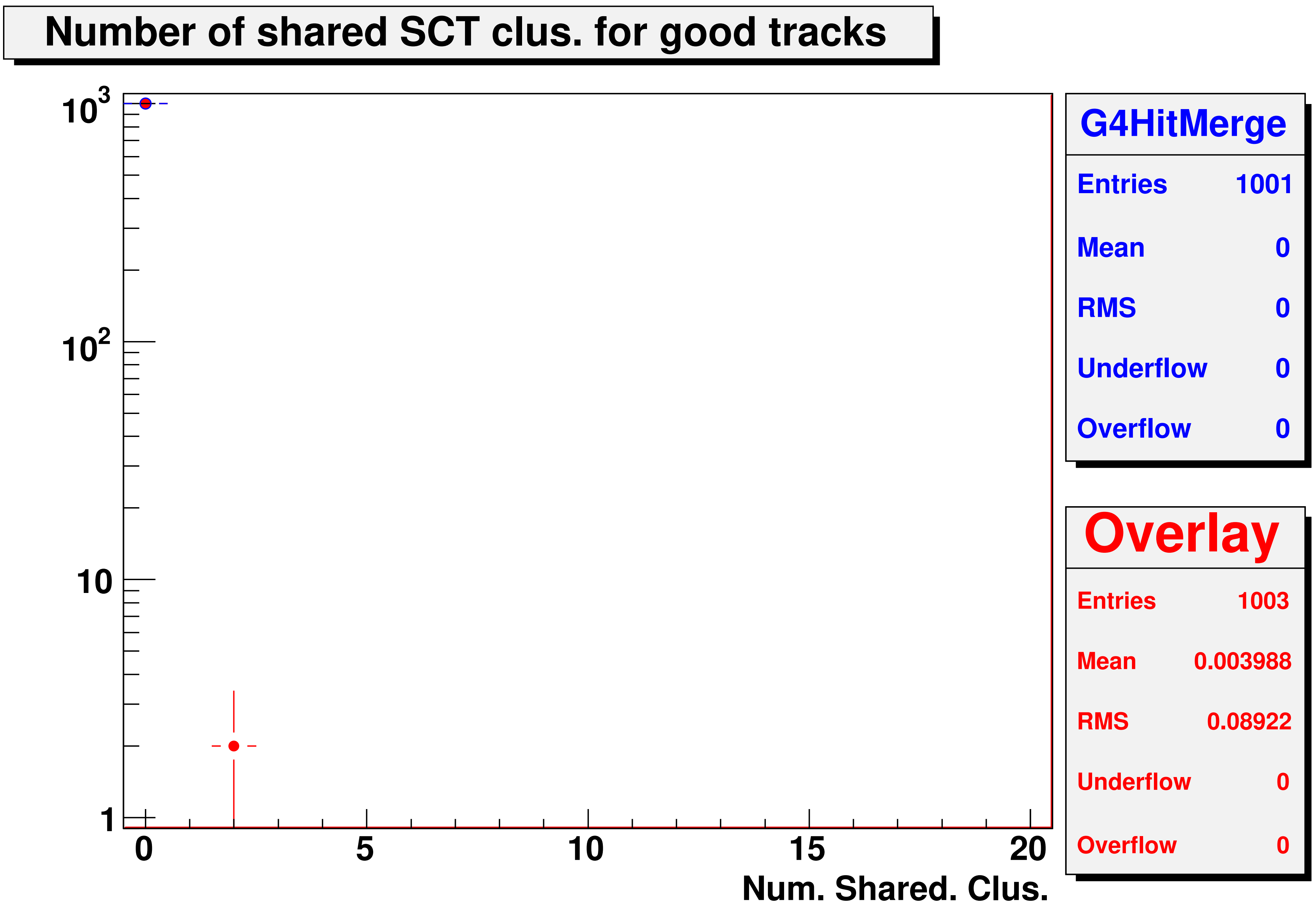
Number of contributed Pixel layers for good tracks
800
700
600
500
400
300
200
100
–0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Layers
G4HitMerge
Entries 1001
Mean 2.971
RMS 0.4614
Underflow 0
Overflow 14
Overlay
Entries 1003
Mean 2.971
RMS 0.4675
Underflow 0
Overflow 14

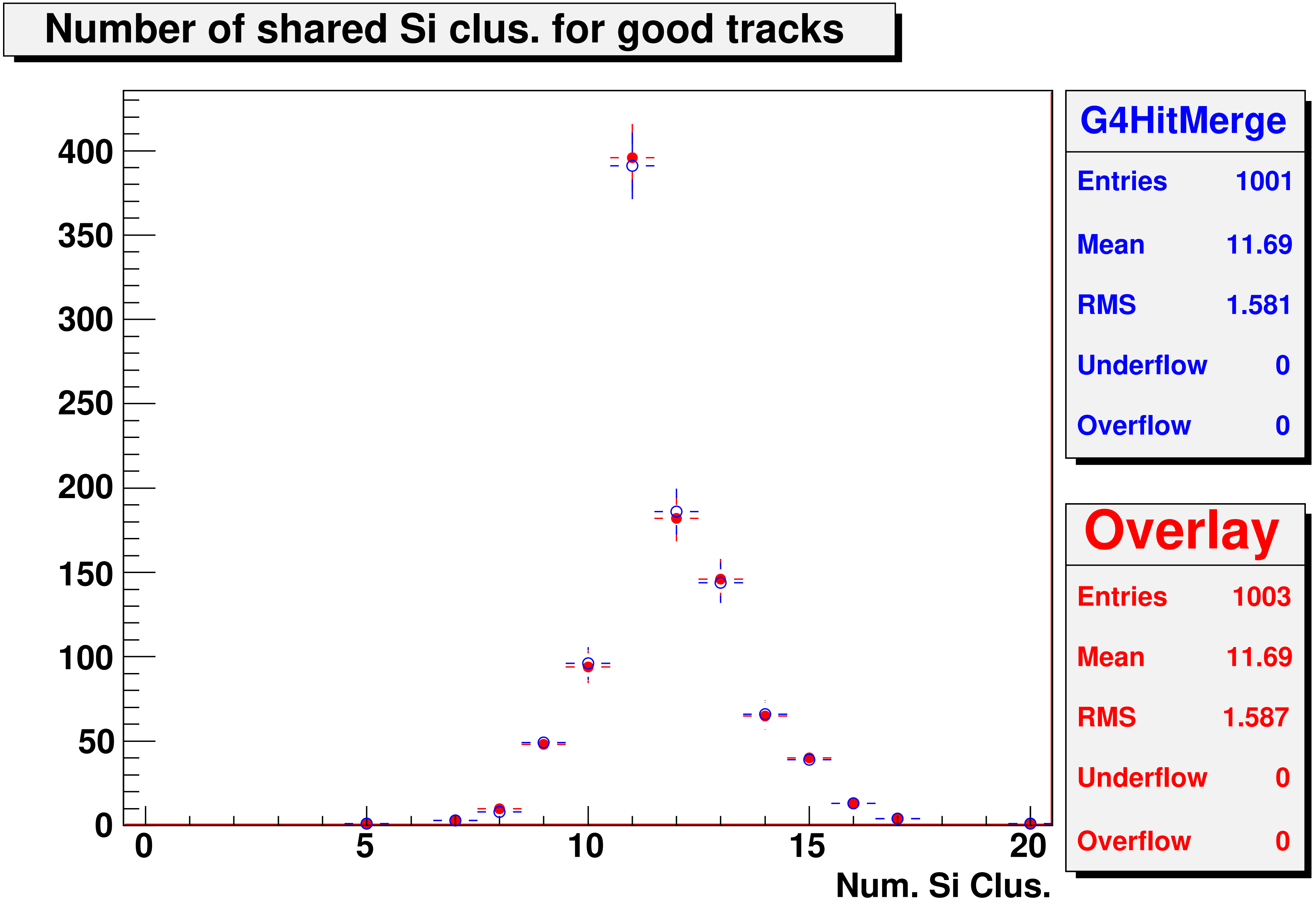

Number of shared Pixel clus. for good tracks
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8
9
Num. Shared. Clus.
G4HitMerge
Entries 1001
Mean 0.01399
RMS 0.1943
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 0.01595
RMS 0.1991
Underflow 0
Overflow 0

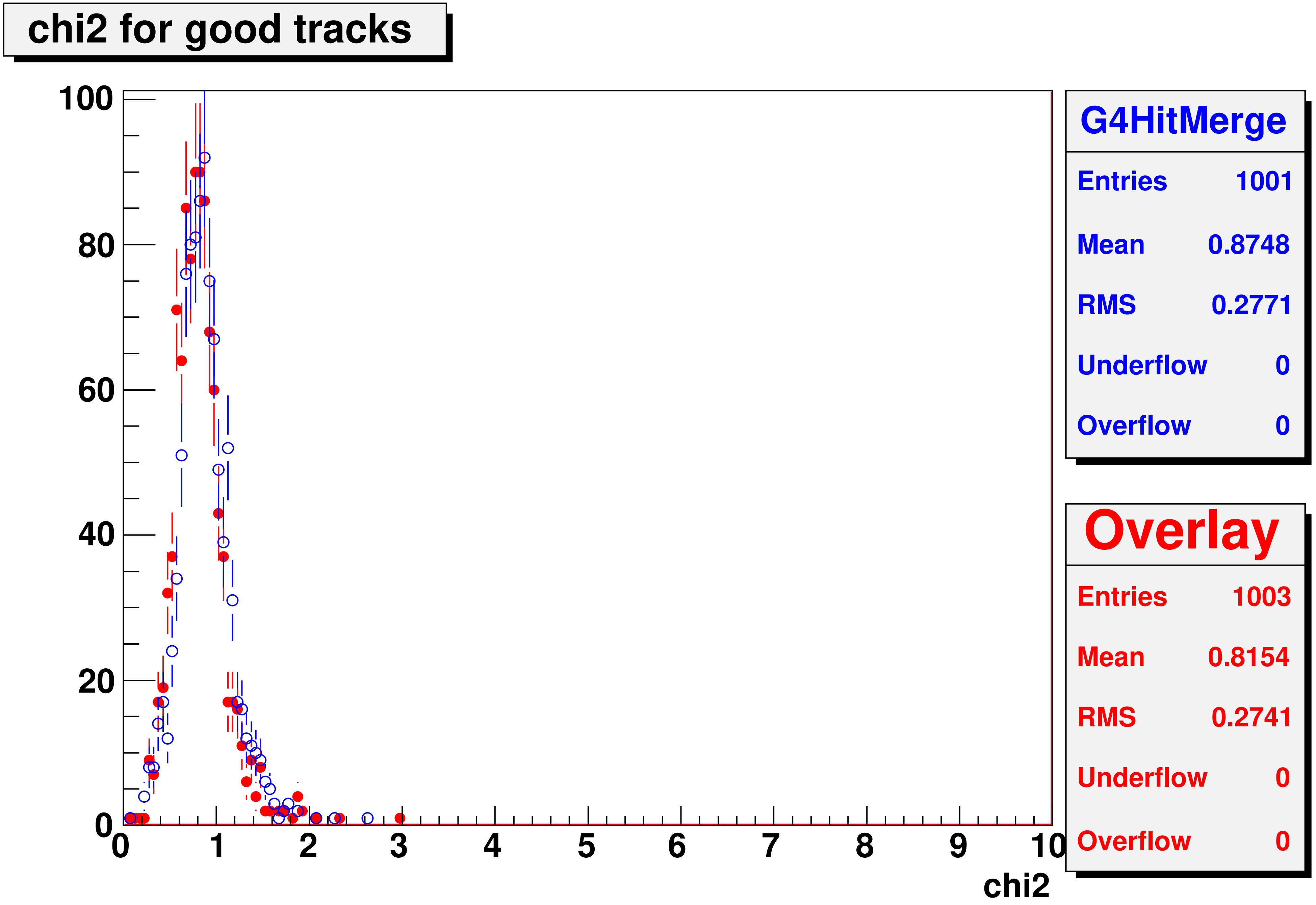


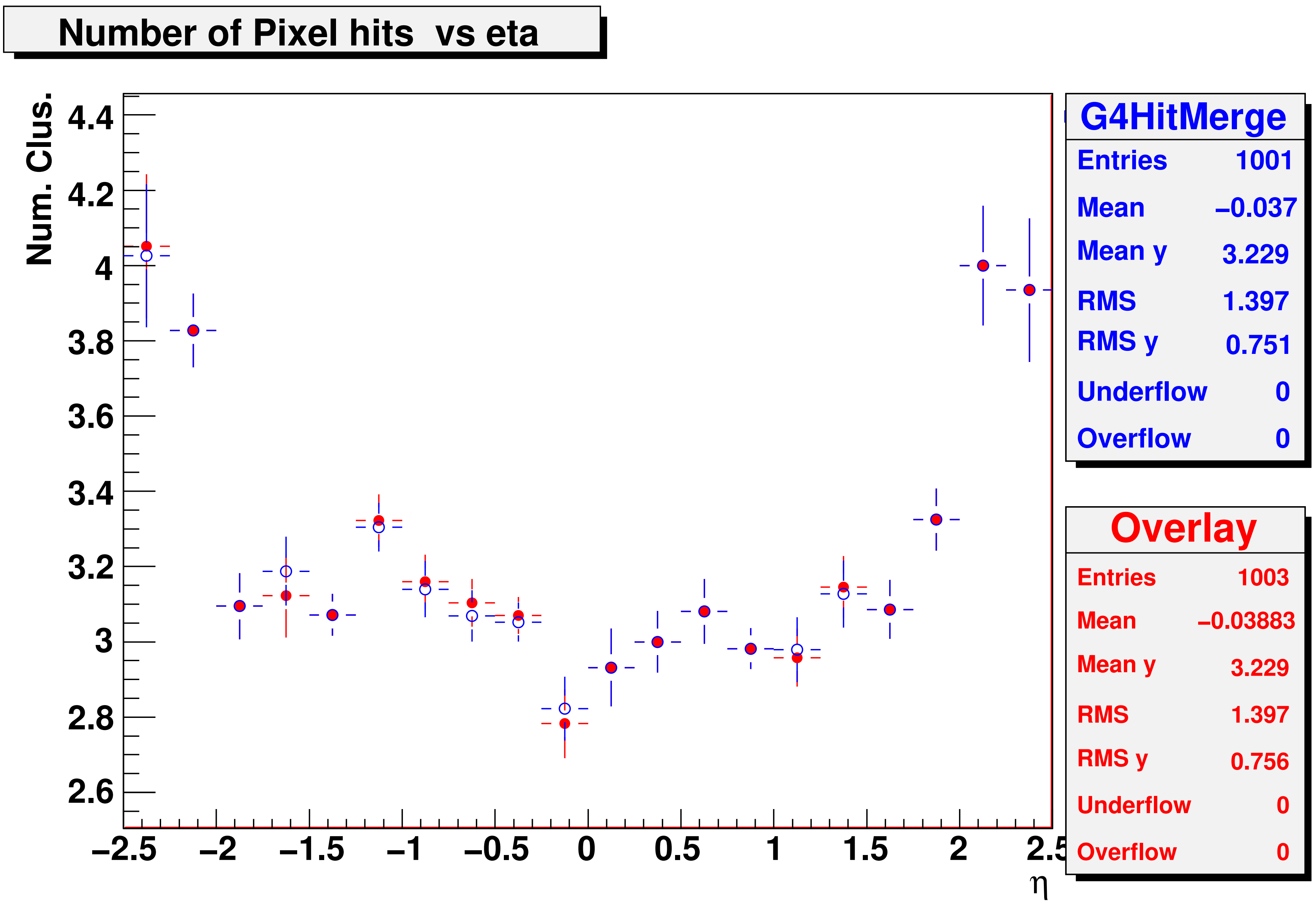
Number of SCT clus. for good tracks
500
400
300
200
100
0
0
5
10
15
20
Num. Clus.
G4HitMerge
Entries 1001
Mean 8.461
RMS 1.327
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 8.458
RMS 1.327
Underflow 0
Overflow 0

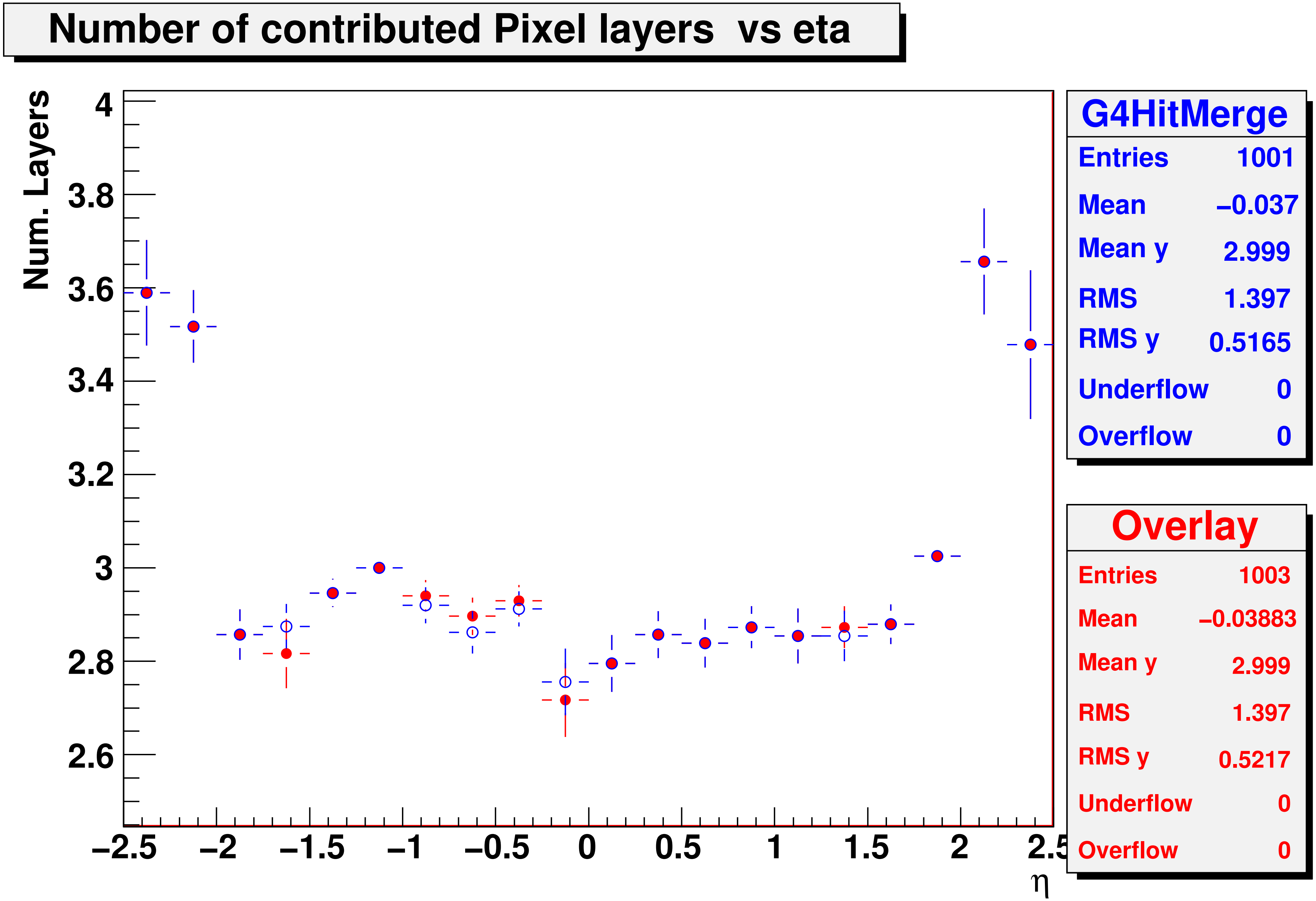

Number of SCT holes for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Holes
G4HitMerge
Entries 1001
Mean 0.01299
RMS 0.1132
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 0.01496
RMS 0.1293
Underflow 0
Overflow 0


Number of shared SCT clus. for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Shared. Clus.
G4HitMerge
Entries 1001
Mean 0
RMS 0
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 0.003988
RMS 0.08922
Underflow 0
Overflow 0

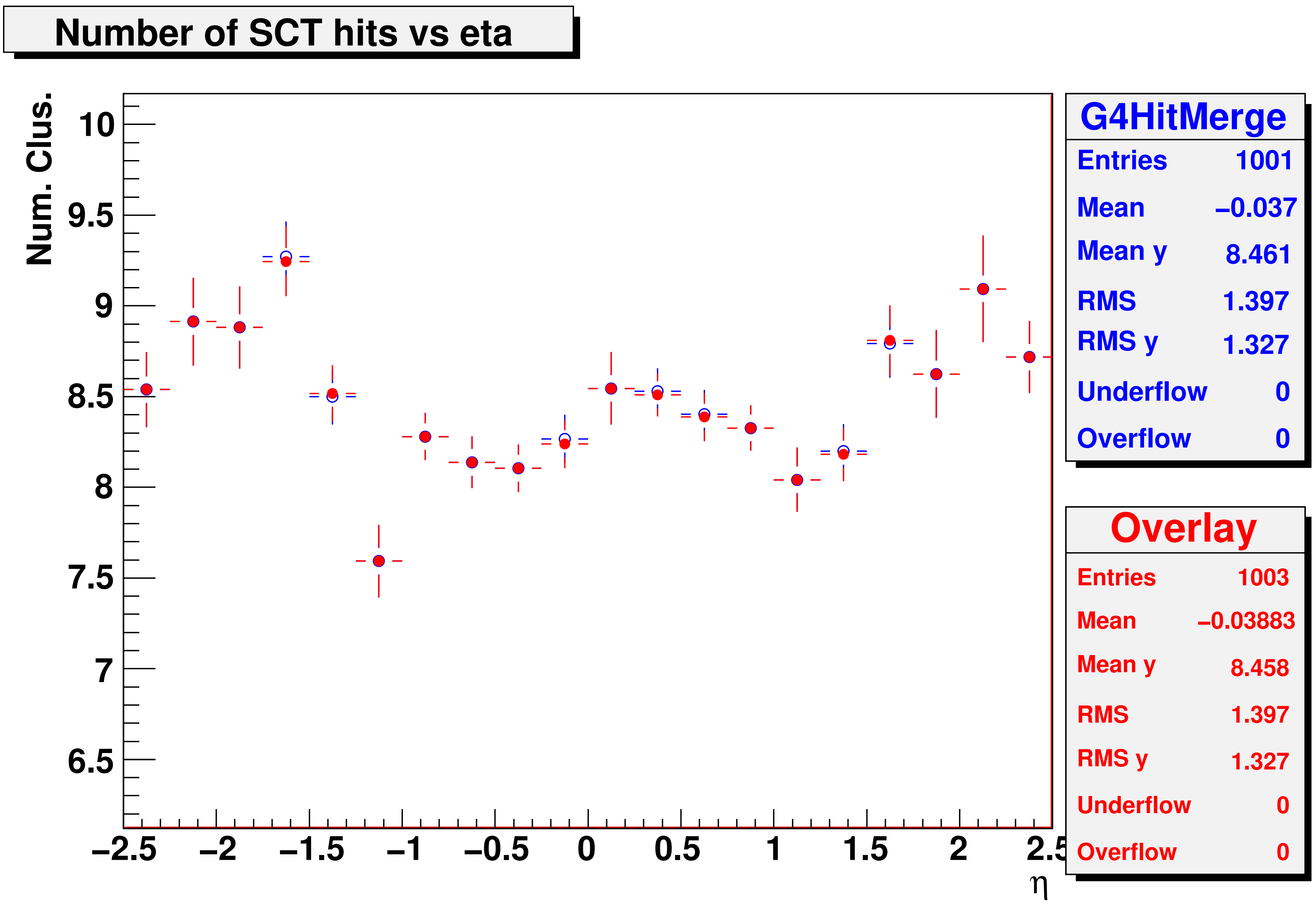

Number of shared Si clus. for good tracks
0
50
100
150
200
250
300
350
400
0
5
10
15
20
Num. Si Clus.
G4HitMerge
Entries 1001
Mean 11.69
RMS 1.581
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 11.69
RMS 1.587
Underflow 0
Overflow 0

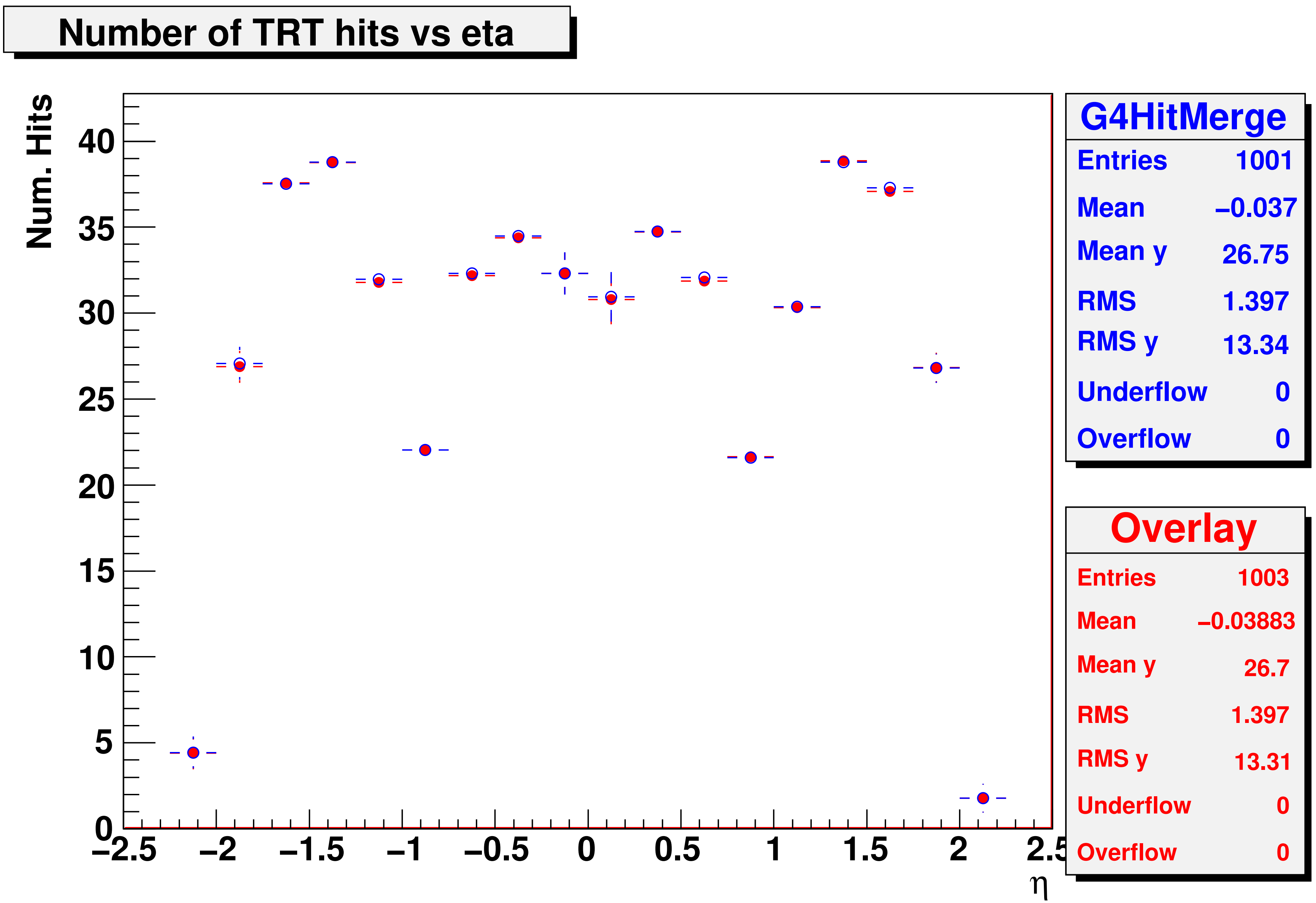

chi2 for good tracks
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
9
10
chi2
G4HitMerge
Entries 1001
Mean 0.8748
RMS 0.2771
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean 0.8154
RMS 0.2741
Underflow 0
Overflow 0


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 1001
Mean –0.037
Mean y 3.229
RMS 1.397
RMS y 0.751
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean –0.03883
Mean y 3.229
RMS 1.397
RMS y 0.756
Underflow 0
Overflow 0

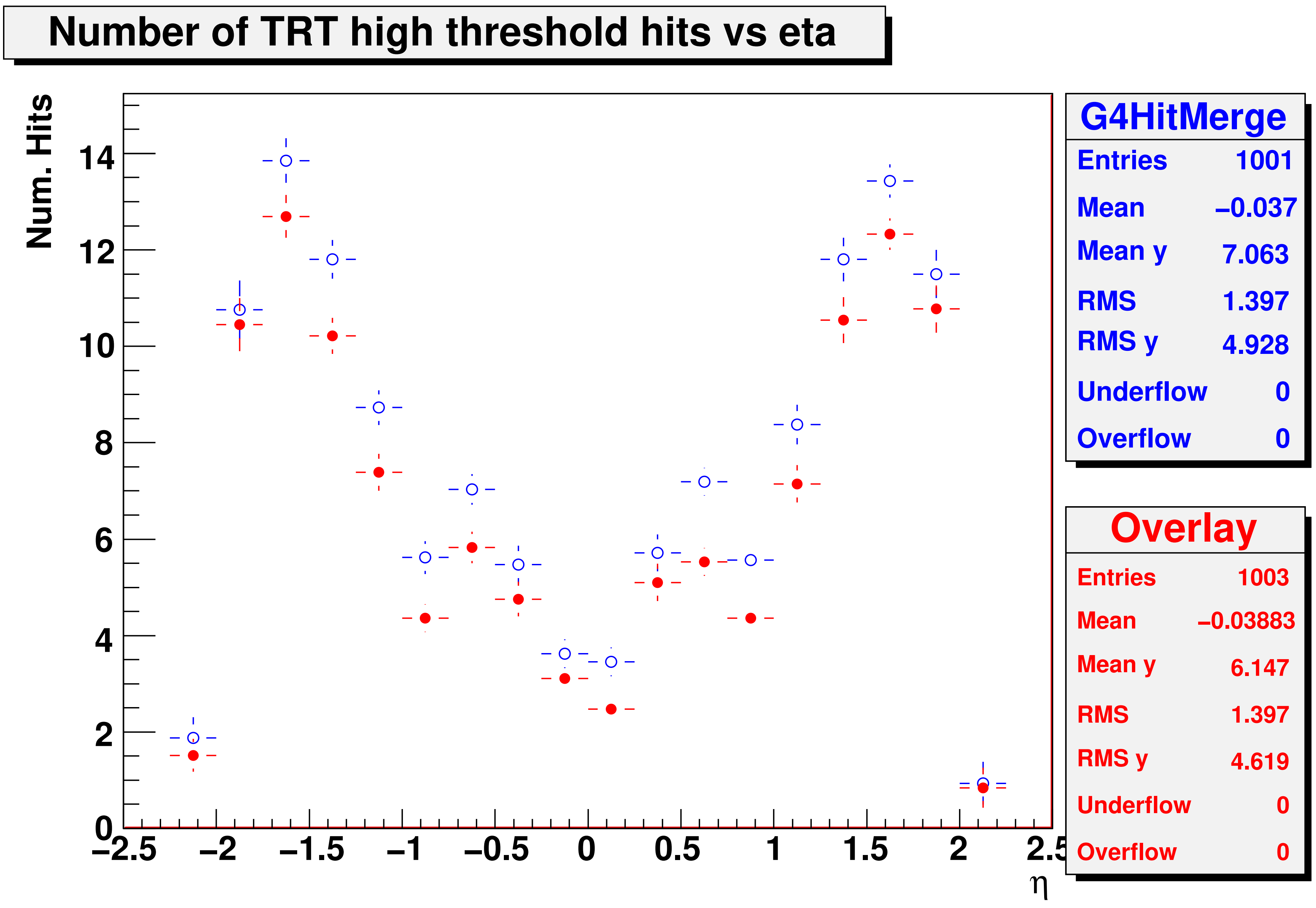


Number of contributed Pixel layers vs eta
Num. Layers
4
3.8
3.6
3.4
3.2
3
2.8
2.6
–2.5
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1001
Mean –0.037
Mean y 2.999
RMS 1.397
RMS y 0.5165
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean –0.03883
Mean y 2.999
RMS 1.397
RMS y 0.5217
Underflow 0
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 1001
Mean -0.037
Mean y 8.461
RMS 1.397
RMS y 1.327
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean -0.03883
Mean y 8.458
RMS 1.397
RMS y 1.327
Underflow 0
Overflow 0



Number of TRT hits vs eta
Num. Hits
0
5
10
15
20
25
30
35
40
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1001
Mean −0.037
Mean y 26.75
RMS 1.397
RMS y 13.34
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean −0.03883
Mean y 26.7
RMS 1.397
RMS y 13.31
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 1001
Mean −0.037
Mean y 7.063
RMS 1.397
RMS y 4.928
Underflow 0
Overflow 0
Overlay
Entries 1003
Mean −0.03883
Mean y 6.147
RMS 1.397
RMS y 4.619
Underflow 0
Overflow 0