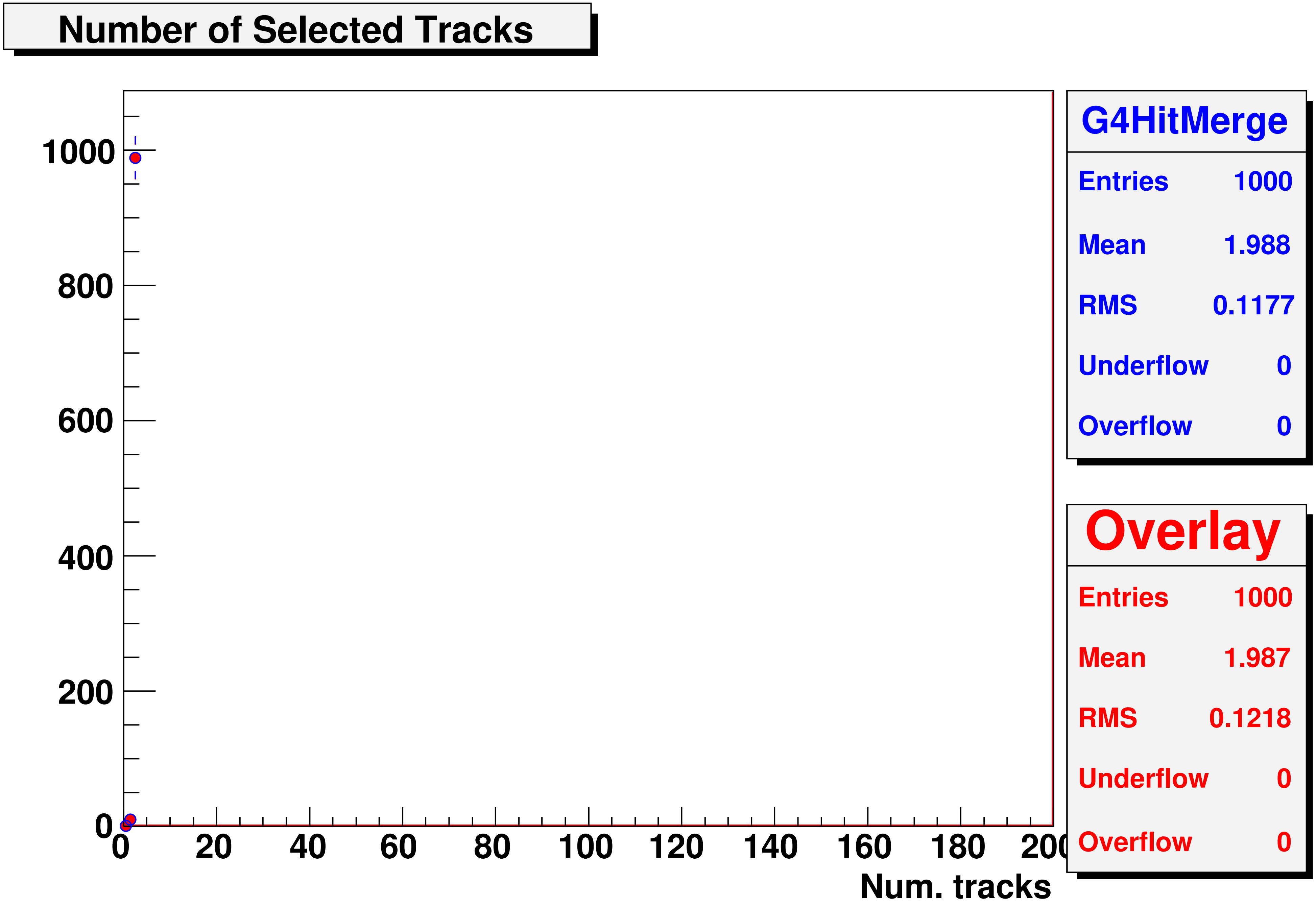
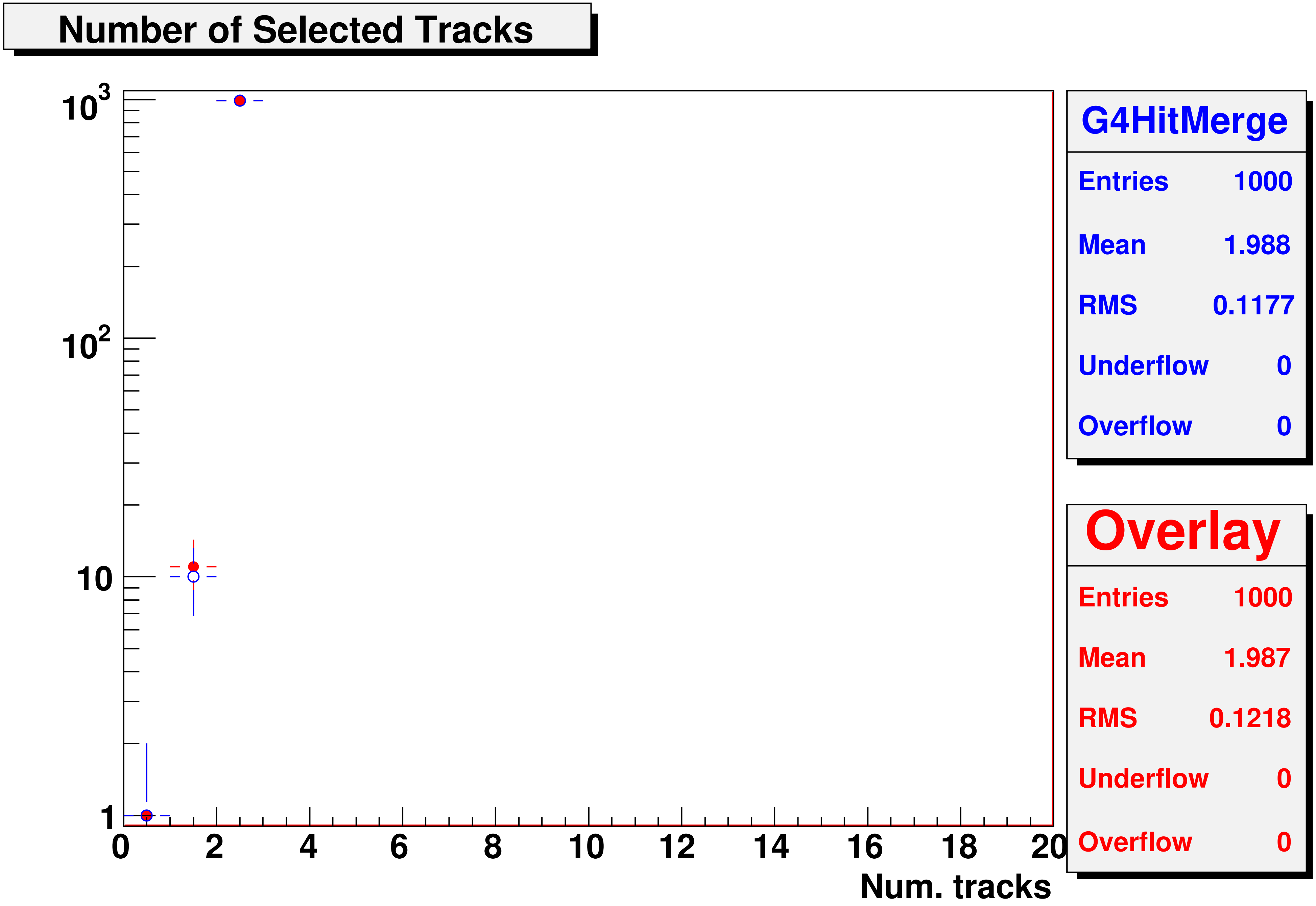
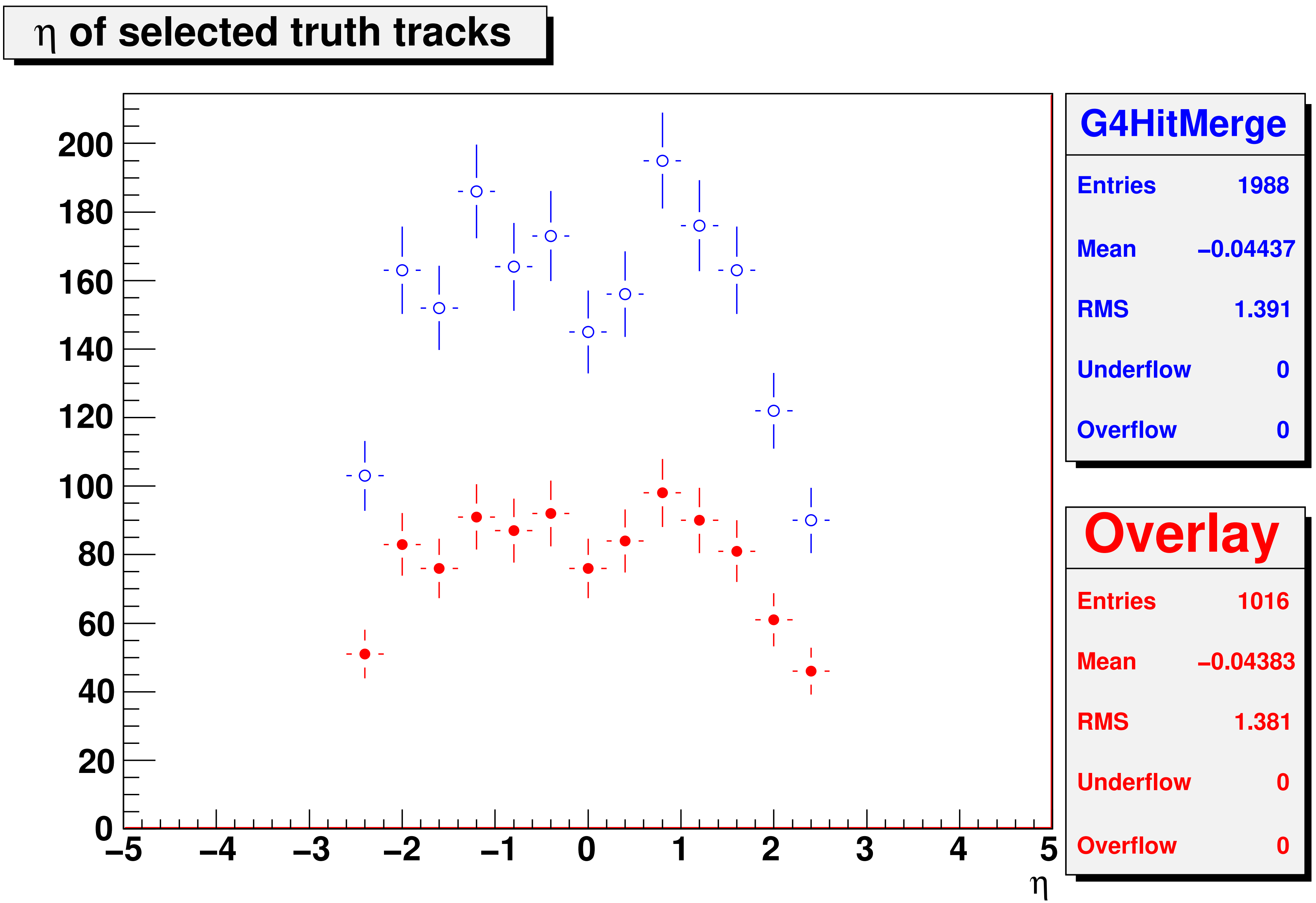
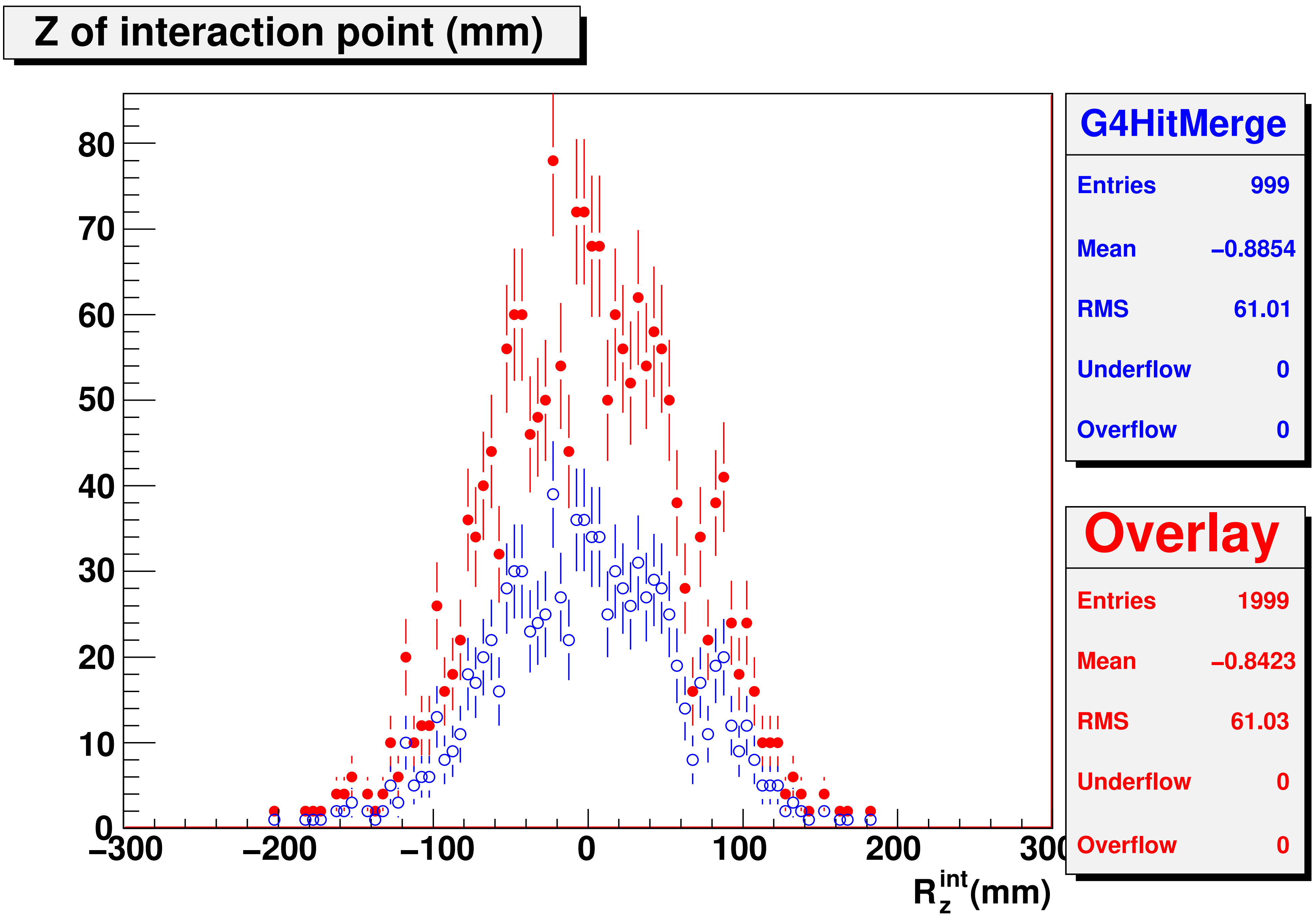


Number of Selected Tracks
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
180
200
Num. tracks
G4HitMerge
Entries 1000
Mean 1.988
RMS 0.1177
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.987
RMS 0.1218
Underflow 0
Overflow 0

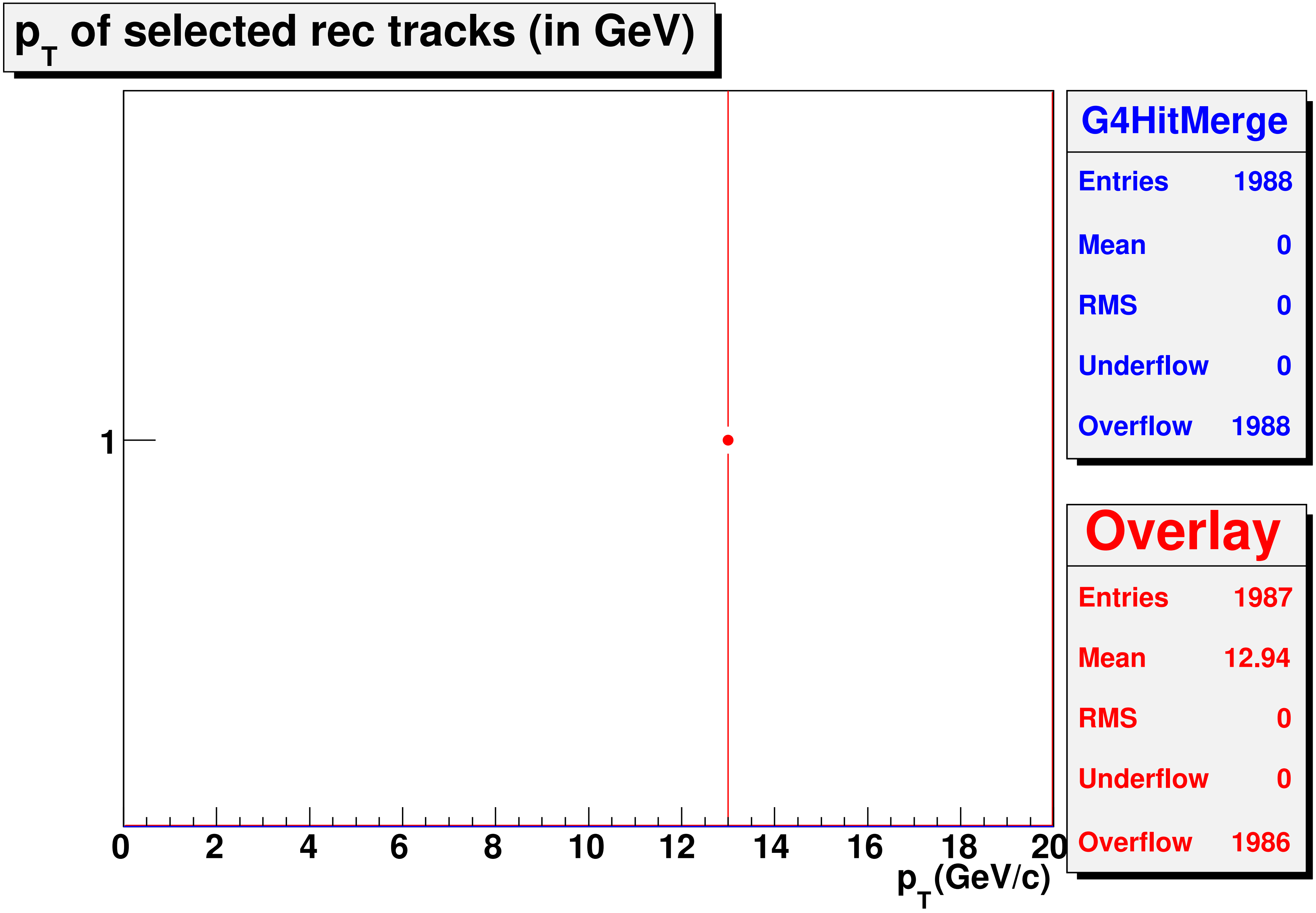


Number of Selected Tracks
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
18
20
Num. tracks
G4HitMerge
Entries 1000
Mean 1.988
RMS 0.1177
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.987
RMS 0.1218
Underflow 0
Overflow 0

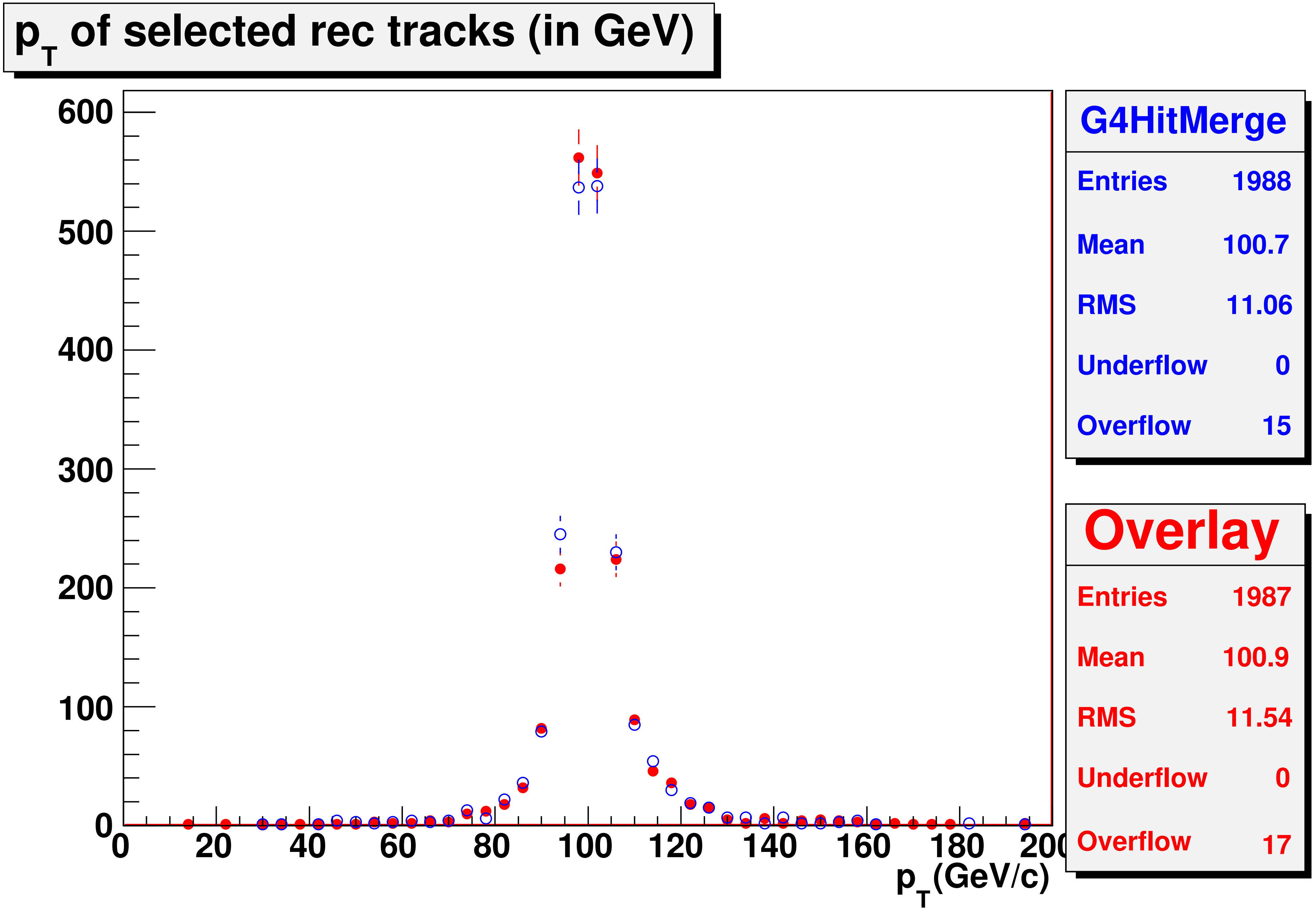

η of selected truth tracks
G4HitMerge
Entries 1988
Mean −0.04437
RMS 1.391
Underflow 0
Overflow 0
Overlay
Entries 1016
Mean −0.04383
RMS 1.381
Underflow 0
Overflow 0
0
20
40
60
80
100
120
140
160
180
200
−5
−4
−3
−2
−1
0
1
2
3
4
5
η



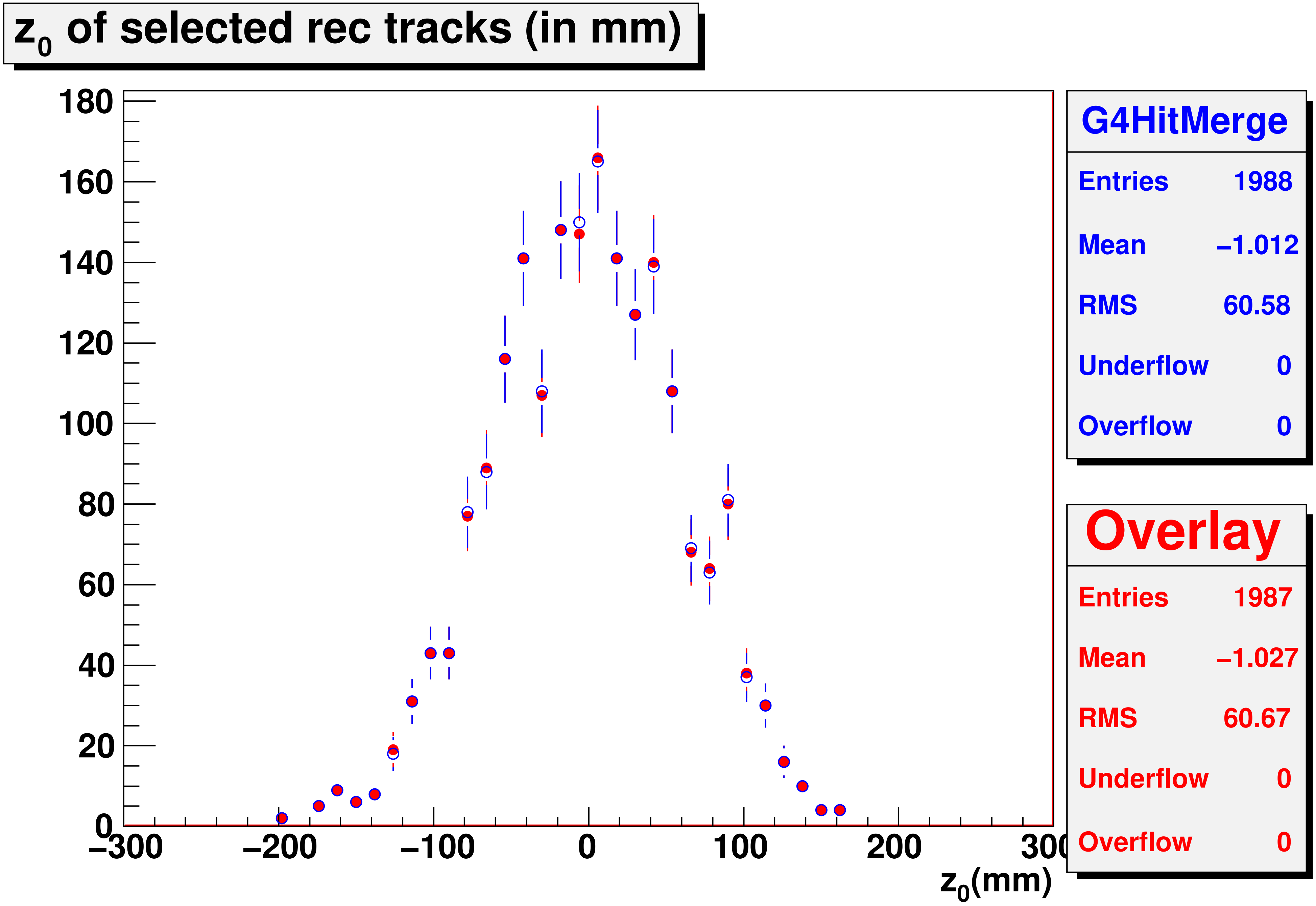
Z of interaction point (mm)
80
70
60
50
40
30
20
10
0
−300
−200
−100
0
100
200
300
R_z^{int}(mm)
G4HitMerge
Entries 999
Mean −0.8854
RMS 61.01
Underflow 0
Overflow 0
Overlay
Entries 1999
Mean −0.8423
RMS 61.03
Underflow 0
Overflow 0



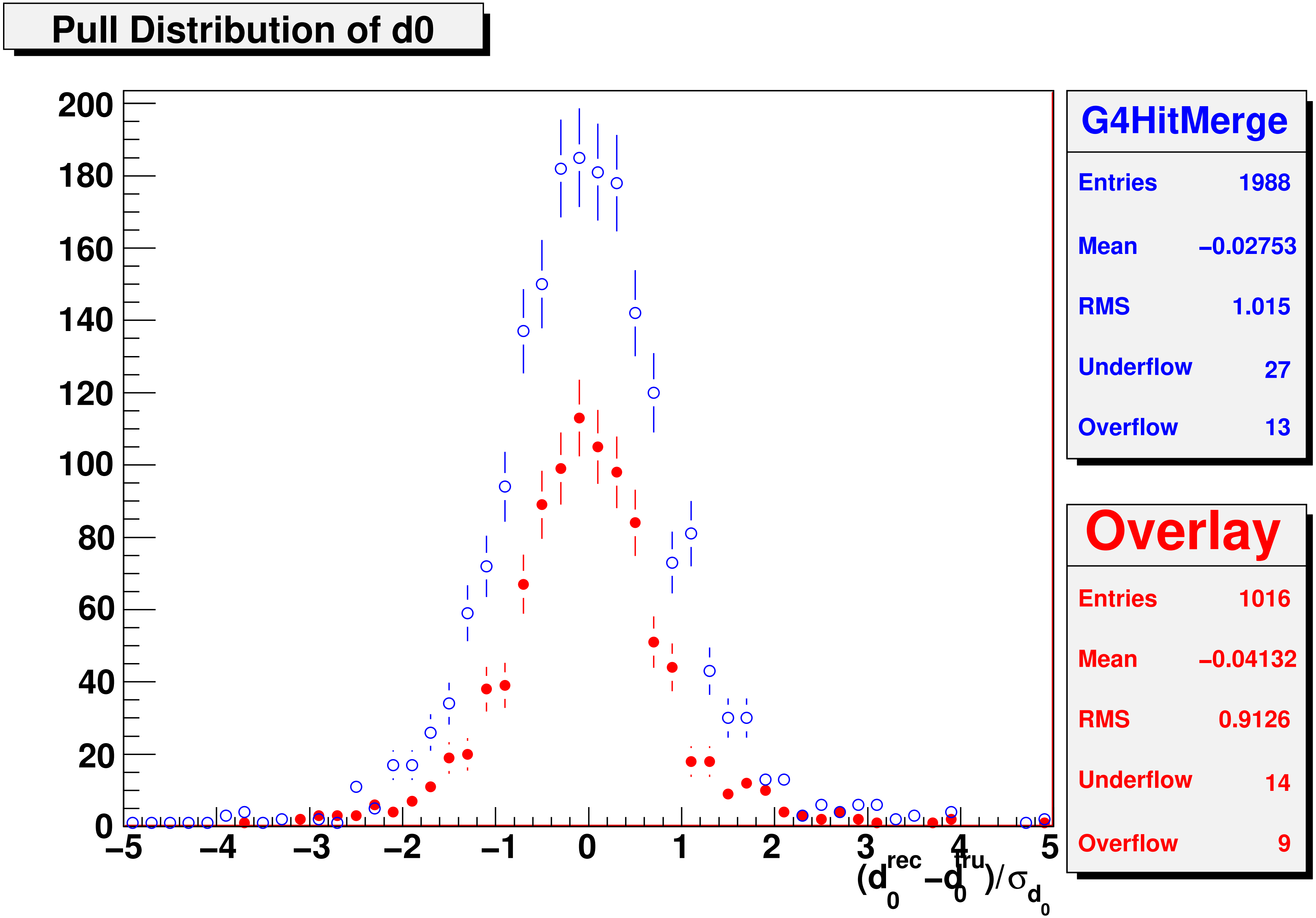
p_T of selected rec tracks (in GeV)
1
0
2
4
6
8
10
12
14
16
18
20
p_T(GeV/c)
G4HitMerge
Entries 1988
Mean 0
RMS 0
Underflow 0
Overflow 1988
Overlay
Entries 1987
Mean 12.94
RMS 0
Underflow 0
Overflow 1986



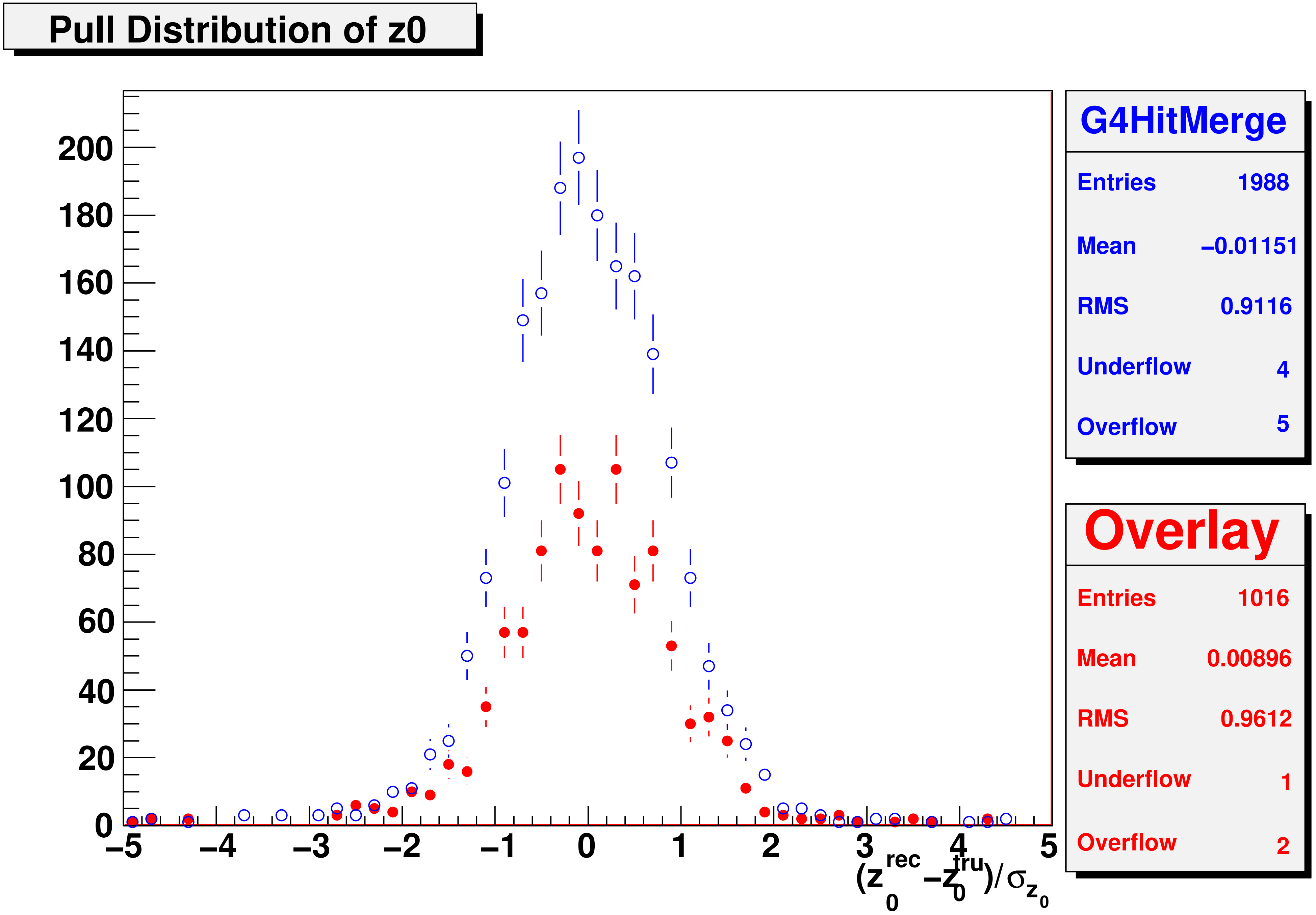
p_T of selected rec tracks (in GeV)
G4HitMerge
Entries 1988
Mean 100.7
RMS 11.06
Underflow 0
Overflow 15
Overlay
Entries 1987
Mean 100.9
RMS 11.54
Underflow 0
Overflow 17
0
100
200
300
400
500
600
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV/c)



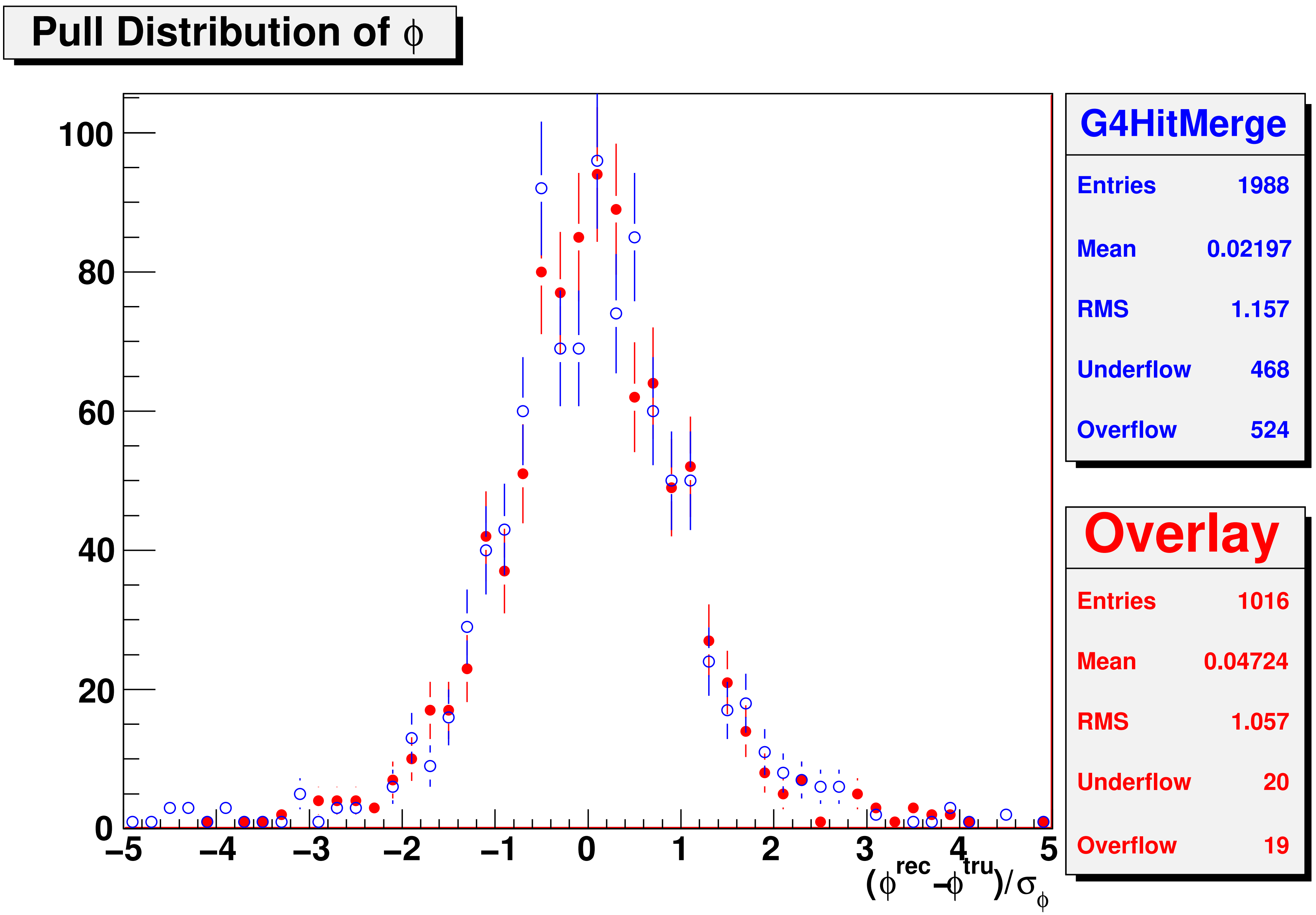
z0 of selected rec tracks (in mm)
180
160
140
120
100
80
60
40
20
0
-300
-200
-100
0
100
200
300
z0(mm)
G4HitMerge
Entries 1988
Mean -1.012
RMS 60.58
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean -1.027
RMS 60.67
Underflow 0
Overflow 0



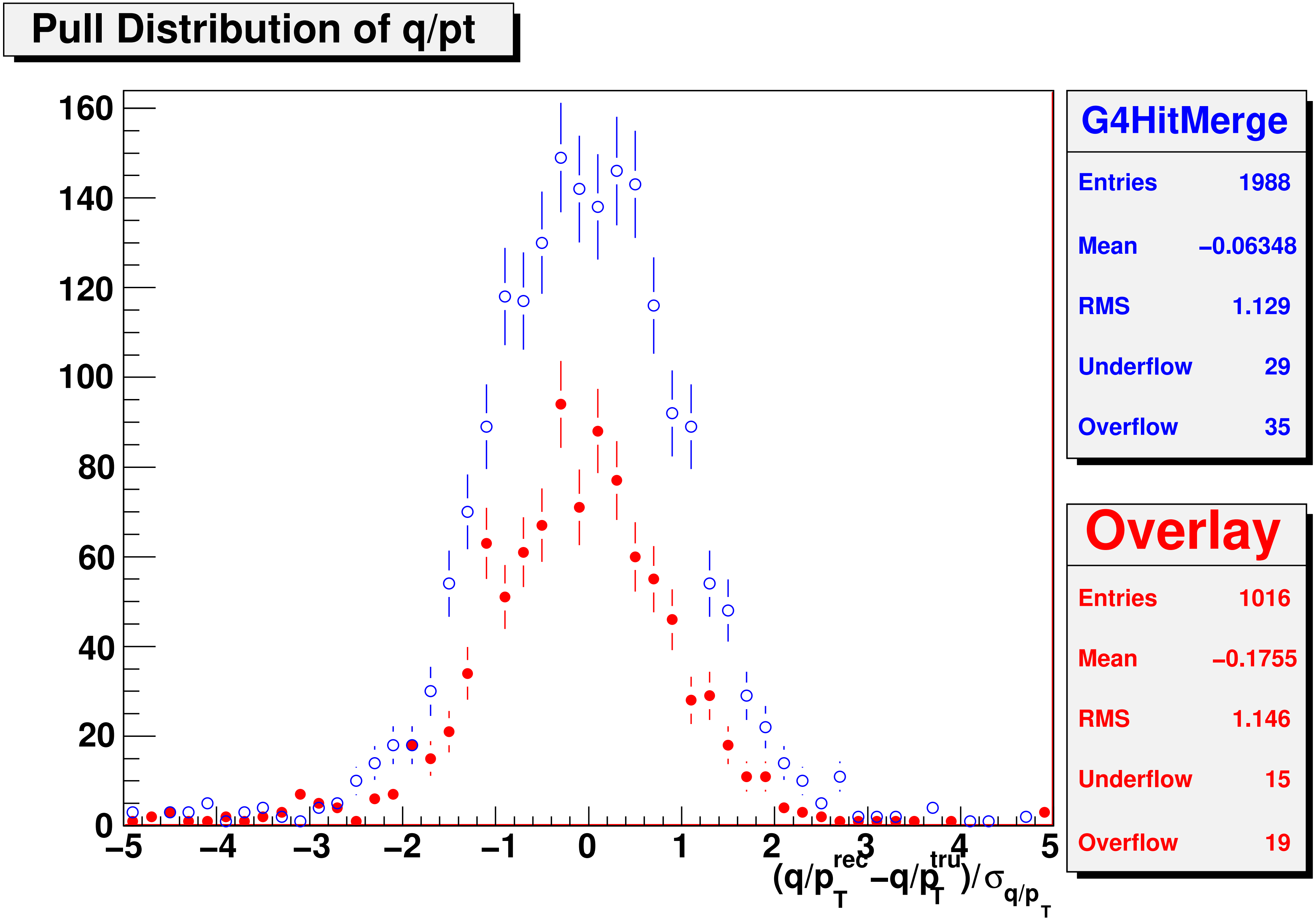
Pull Distribution of d0
G4HitMerge
Entries 1988
Mean −0.02753
RMS 1.015
Underflow 27
Overflow 13
Overlay
Entries 1016
Mean −0.04132
RMS 0.9126
Underflow 14
Overflow 9
0
20
40
60
80
100
120
140
160
180
200
−5
−4
−3
−2
−1
0
1
2
3
4
5
$(d_0^{rec} - d_0^{tru})/\sigma_{d_0}$



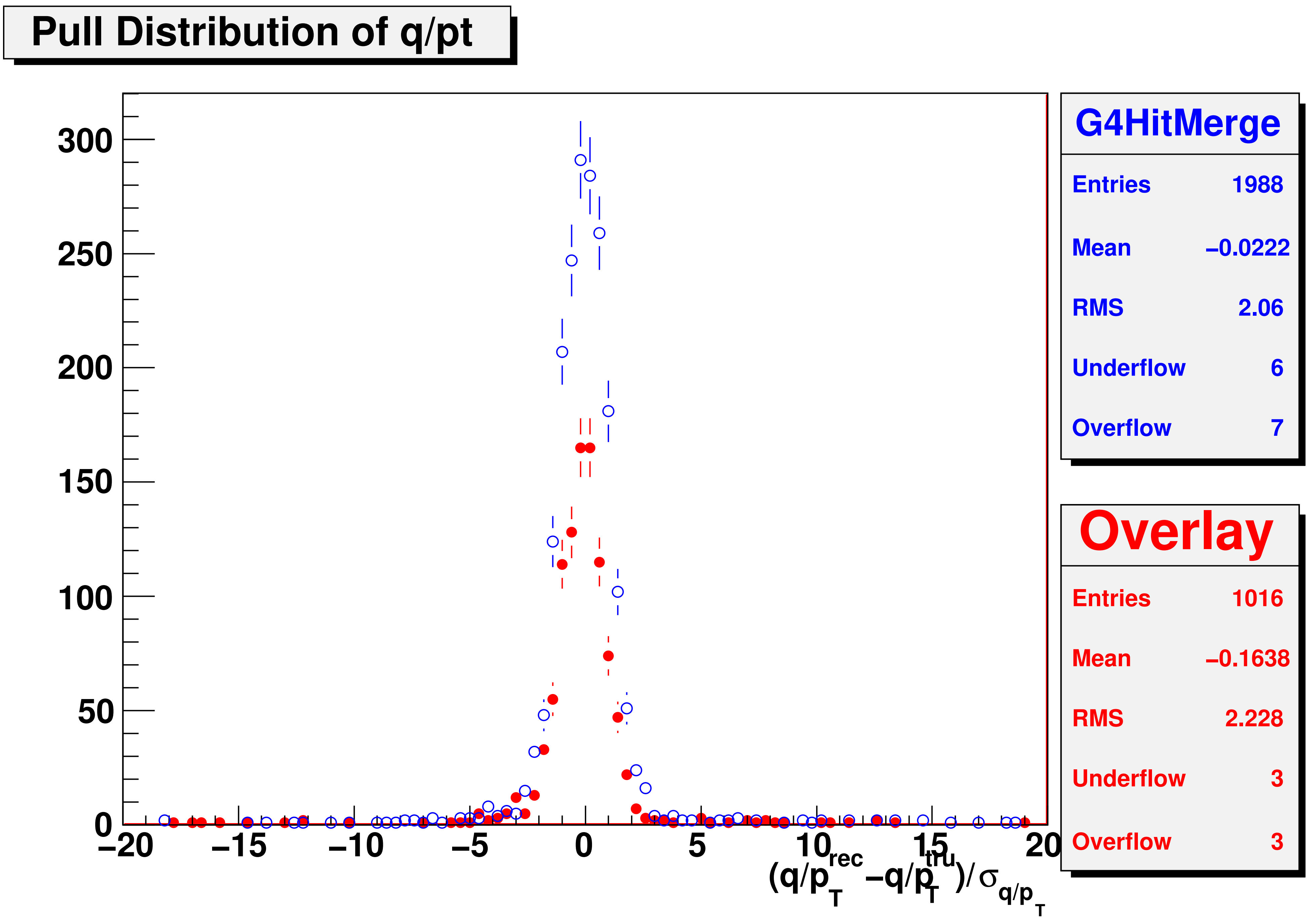
Pull Distribution of z0
G4HitMerge
Entries 1988
Mean −0.01151
RMS 0.9116
Underflow 4
Overflow 5
Overlay
Entries 1016
Mean 0.00896
RMS 0.9612
Underflow 1
Overflow 2
$(z_0^{rec} - z_0^{tru})/\sigma_{z_0}$



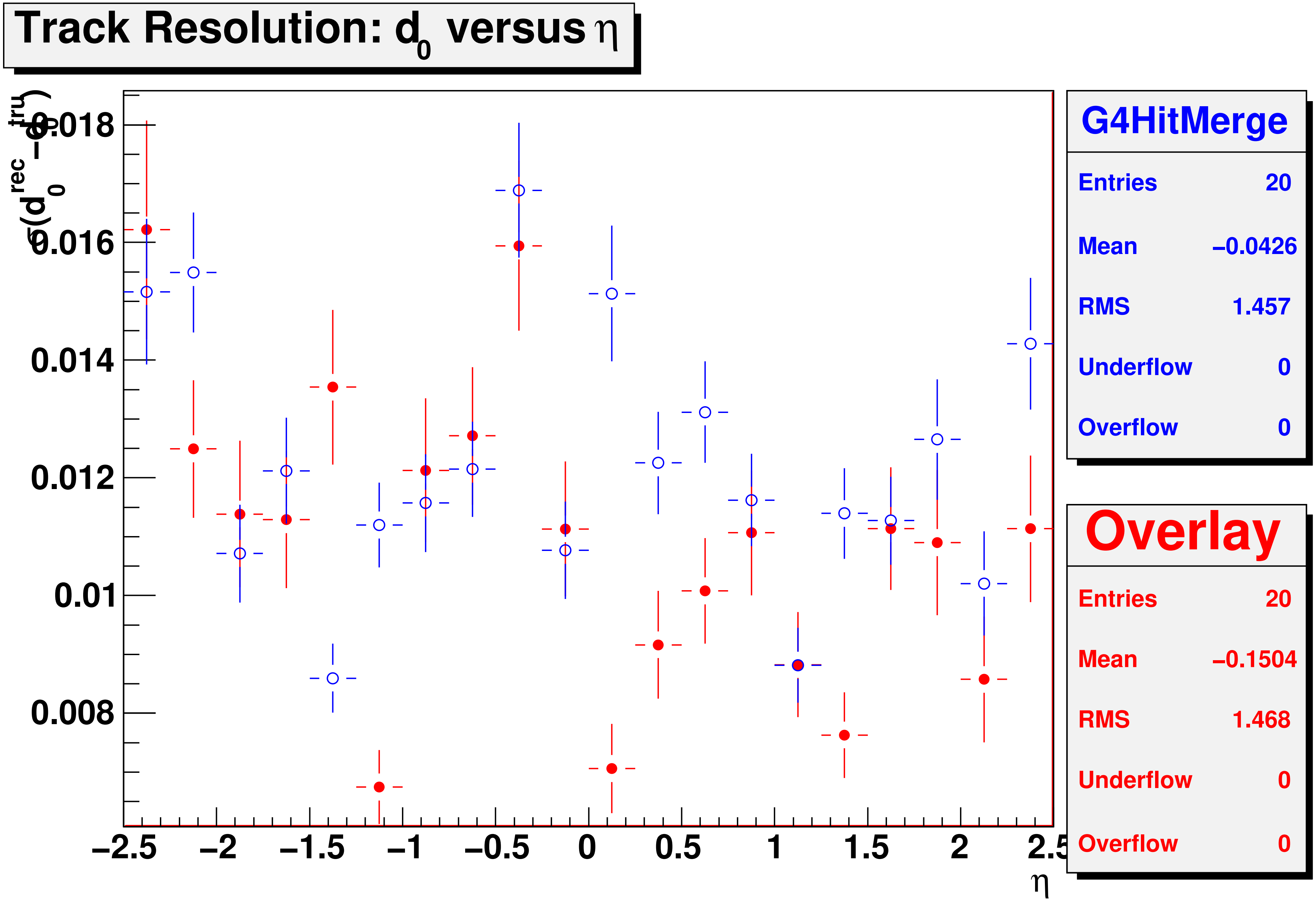
Pull Distribution of ϕ
G4HitMerge
Entries 1988
Mean 0.02197
RMS 1.157
Underflow 468
Overflow 524
Overlay
Entries 1016
Mean 0.04724
RMS 1.057
Underflow 20
Overflow 19
$(\phi^{rec}-\phi^{tru})/\sigma_{\phi}$
0
20
40
60
80
100
−5
−4
−3
−2
−1
0
1
2
3
4
5



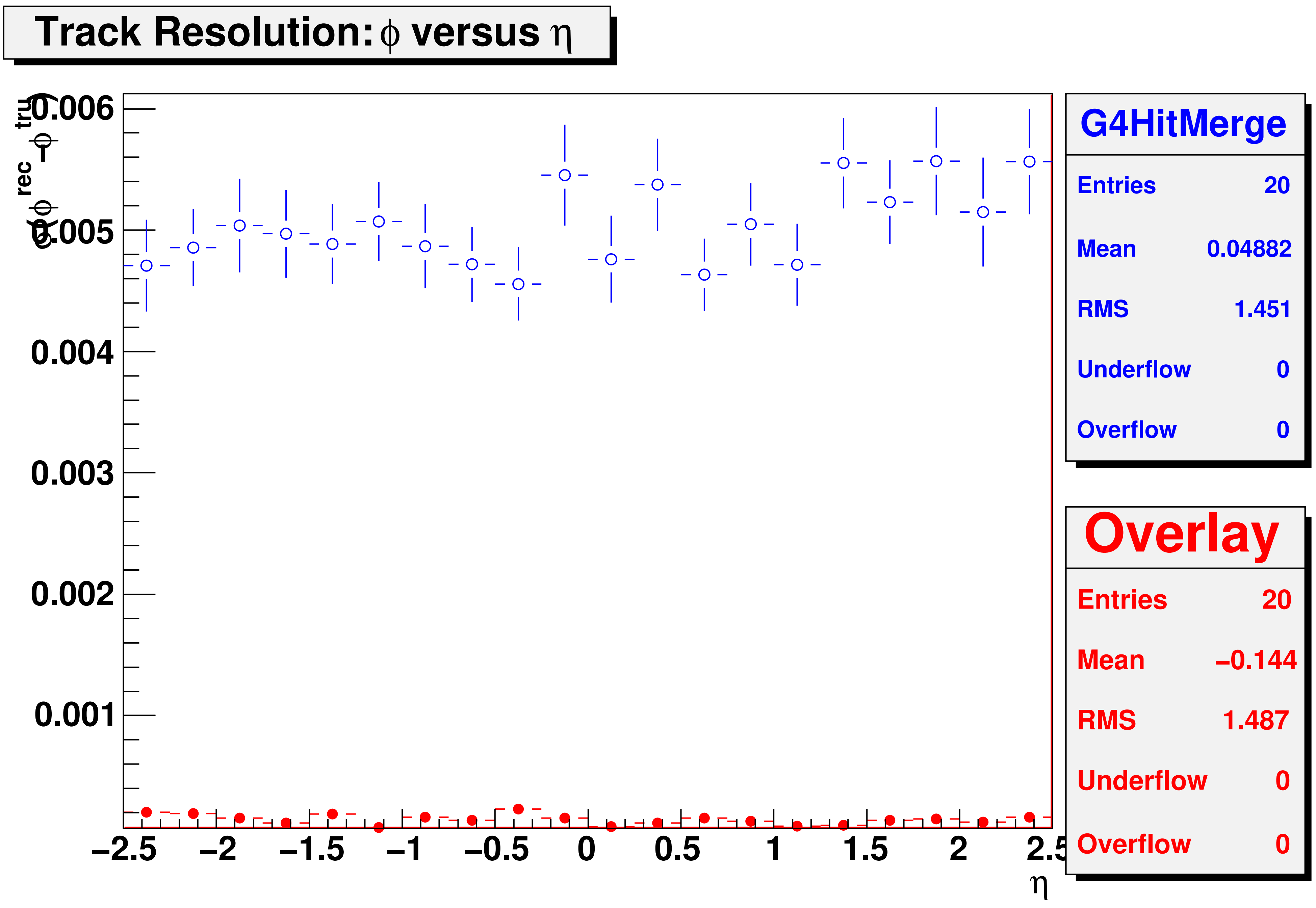
Pull Distribution of q/pt
G4HitMerge
Entries 1988
Mean −0.06348
RMS 1.129
Underflow 29
Overflow 35
Overlay
Entries 1016
Mean −0.1755
RMS 1.146
Underflow 15
Overflow 19
0
20
40
60
80
100
120
140
160
−5
−4
−3
−2
−1
0
1
2
3
4
5
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$



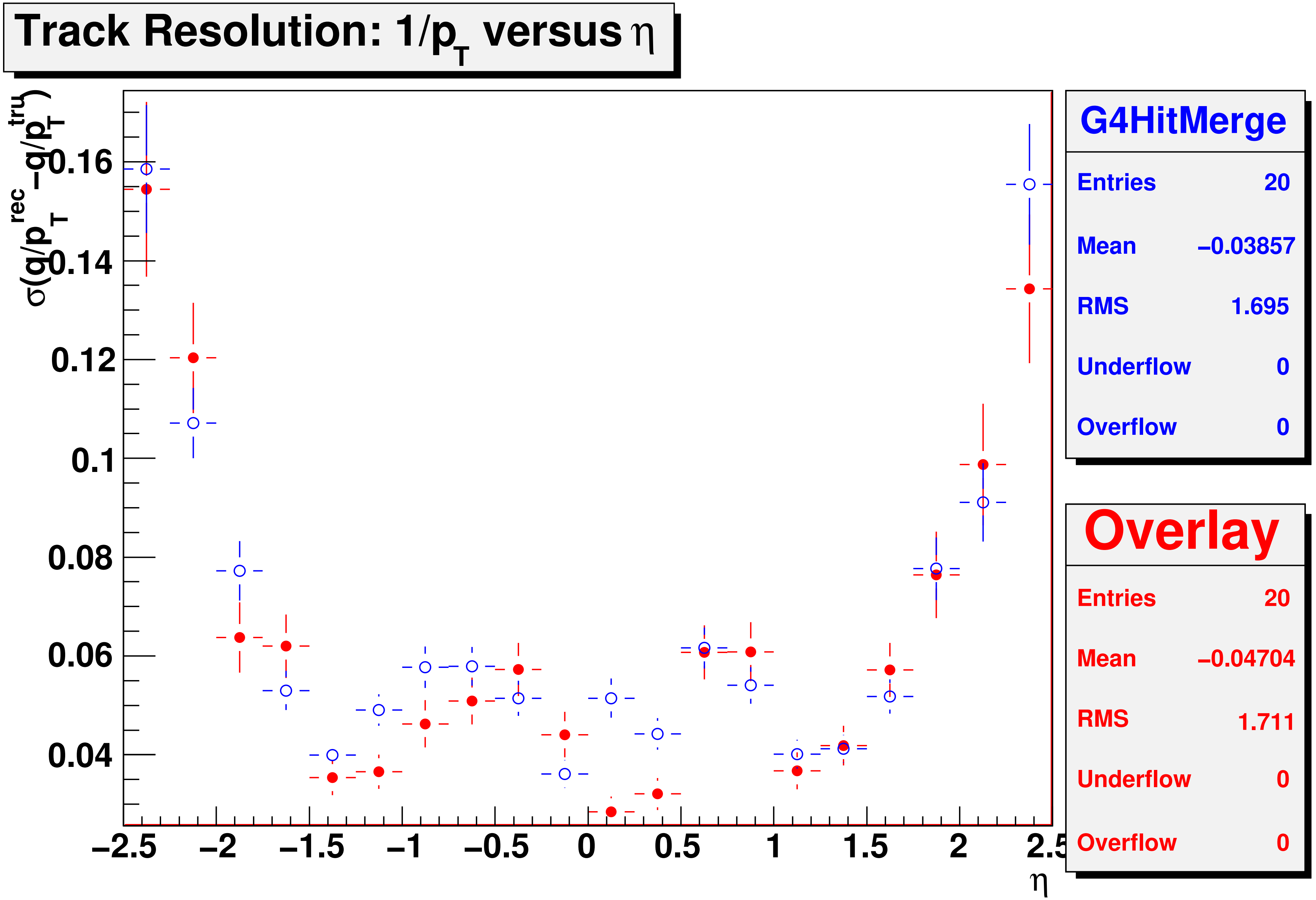
Pull Distribution of q/pt
G4HitMerge
Entries 1988
Mean −0.0222
RMS 2.06
Underflow 6
Overflow 7
Overlay
Entries 1016
Mean −0.1638
RMS 2.228
Underflow 3
Overflow 3
0
50
100
150
200
250
300
−20
−15
−10
−5
0
5
10
15
20
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$



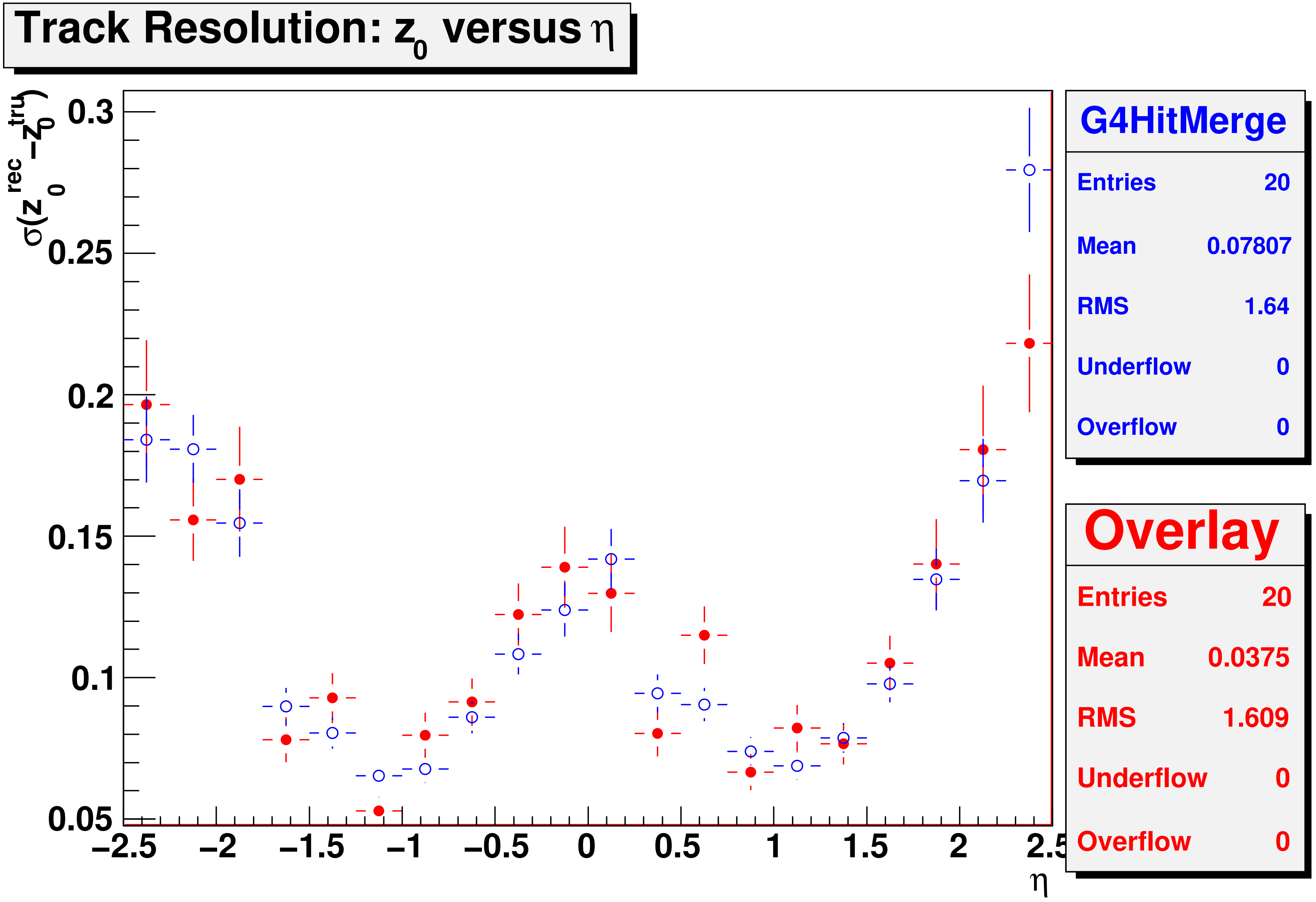
Track Resolution: d0 versus η
σ(d0rec − d0tru)
0.018
0.016
0.014
0.012
0.01
0.008
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.0426
RMS 1.457
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.1504
RMS 1.468
Underflow 0
Overflow 0



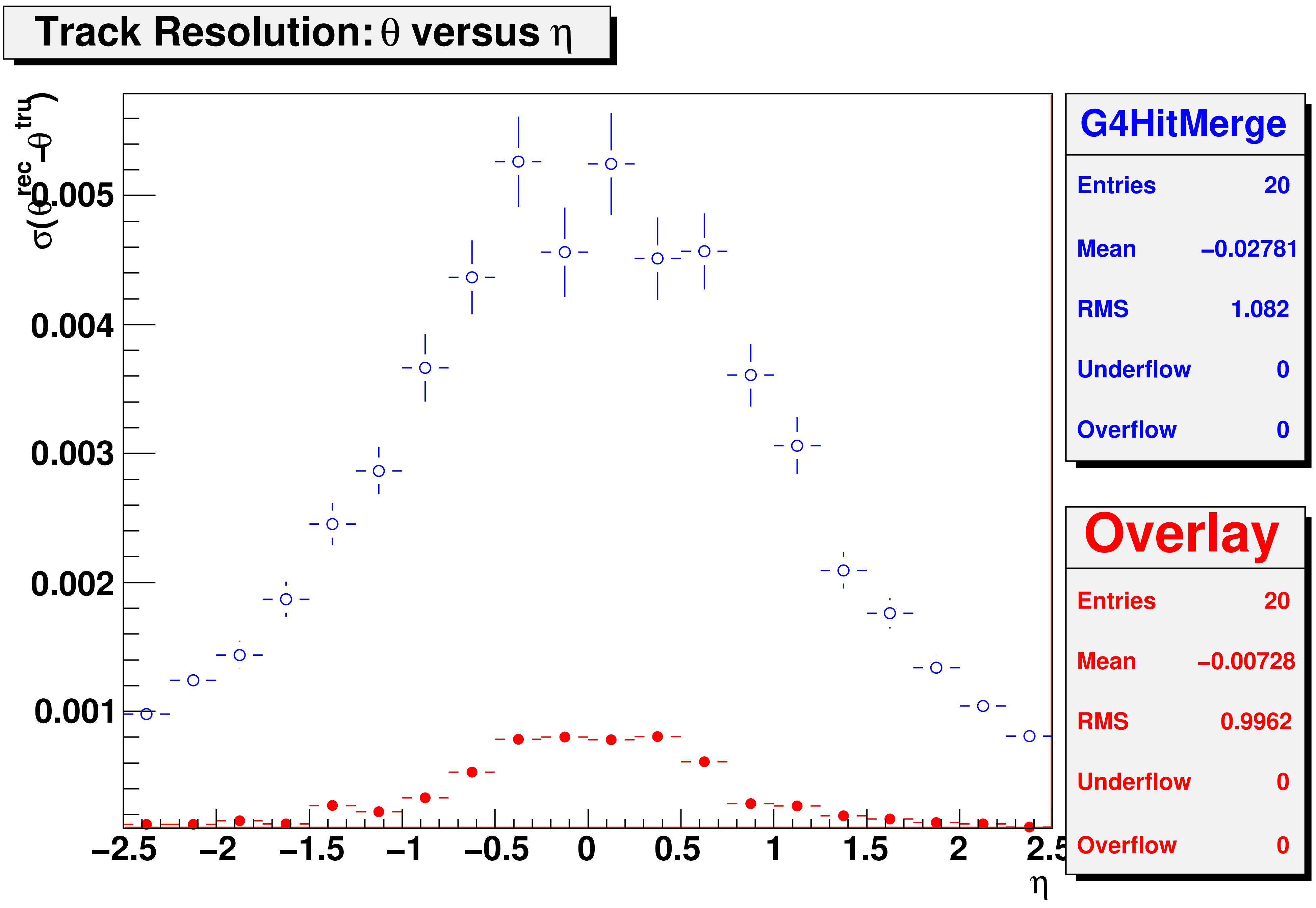
Track Resolution: φ versus η
σ(φ rec − φ tru)
0.006
0.005
0.004
0.003
0.002
0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.04882
RMS 1.451
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.144
RMS 1.487
Underflow 0
Overflow 0



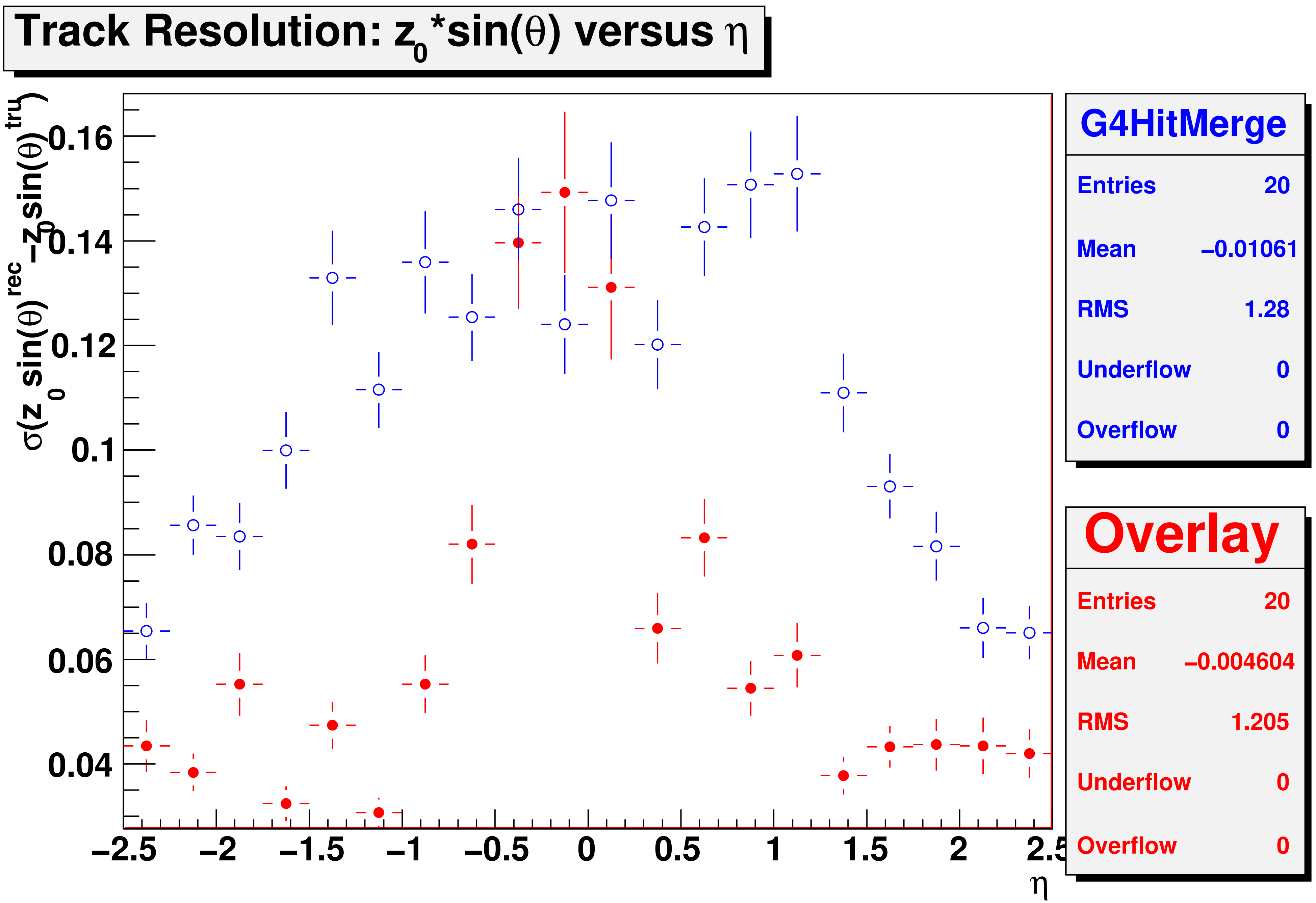
Track Resolution: 1/p_T versus η
σ(q/p_T^rec − q/p_T^tru)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.03857
RMS 1.695
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.04704
RMS 1.711
Underflow 0
Overflow 0

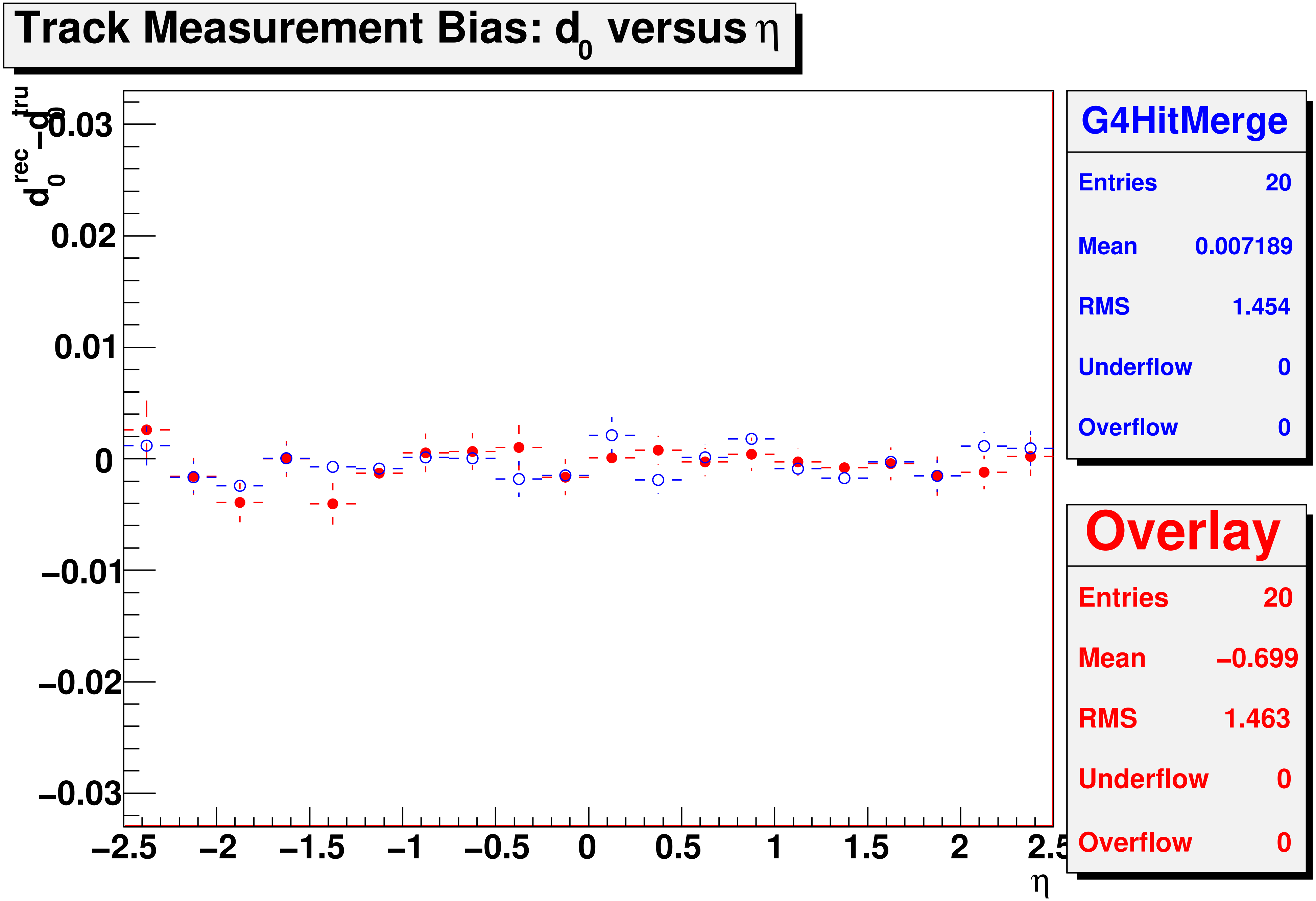


Track Resolution: z0 versus η
σ(z0rec−z0tru)
0.3
0.25
0.2
0.15
0.1
0.05
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.07807
RMS 1.64
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.0375
RMS 1.609
Underflow 0
Overflow 0

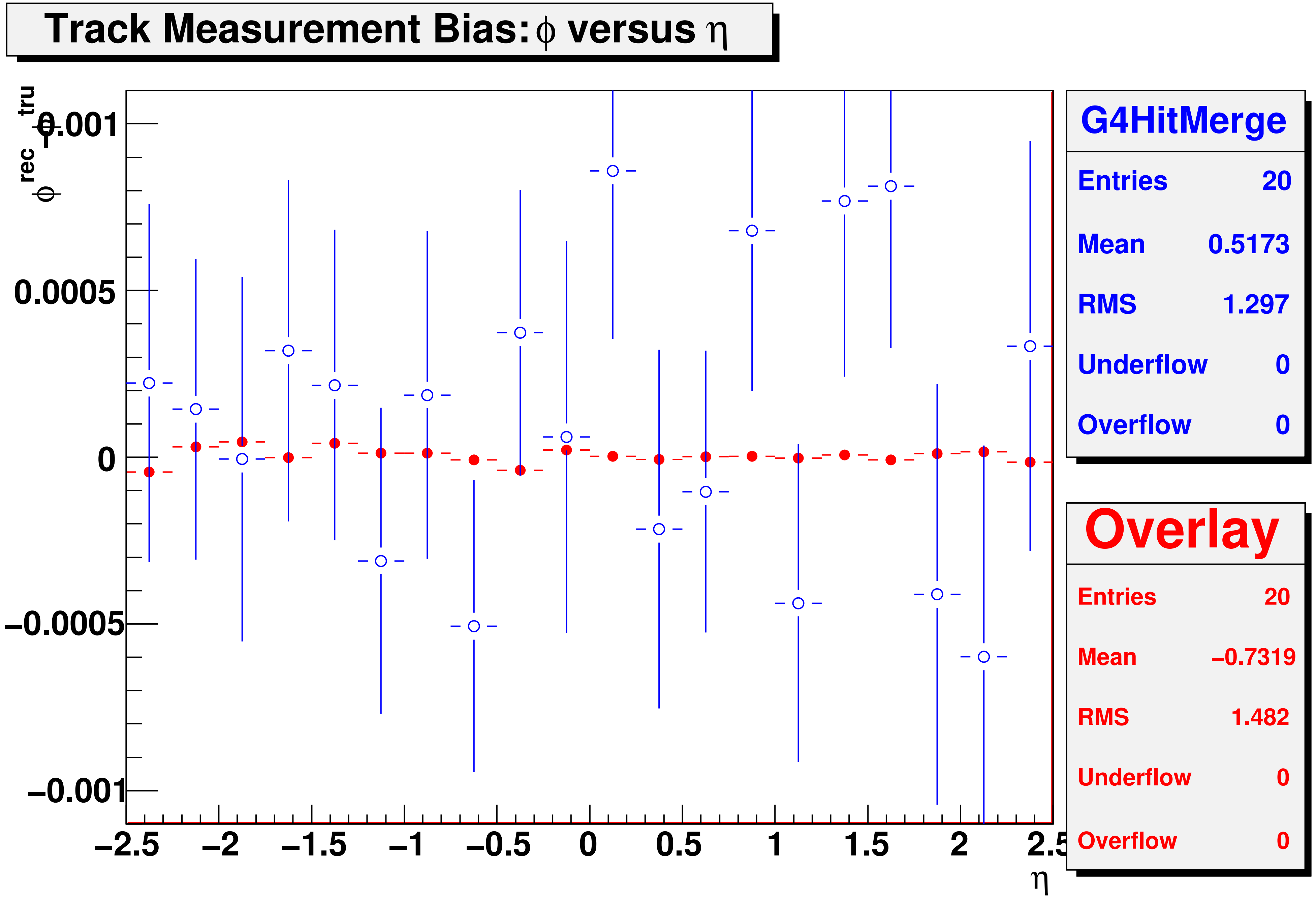


Track Resolution: θ versus η
σ(θ^rec − θ^tru)
0.005
0.004
0.003
0.002
0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.02781
RMS 1.082
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.00728
RMS 0.9962
Underflow 0
Overflow 0

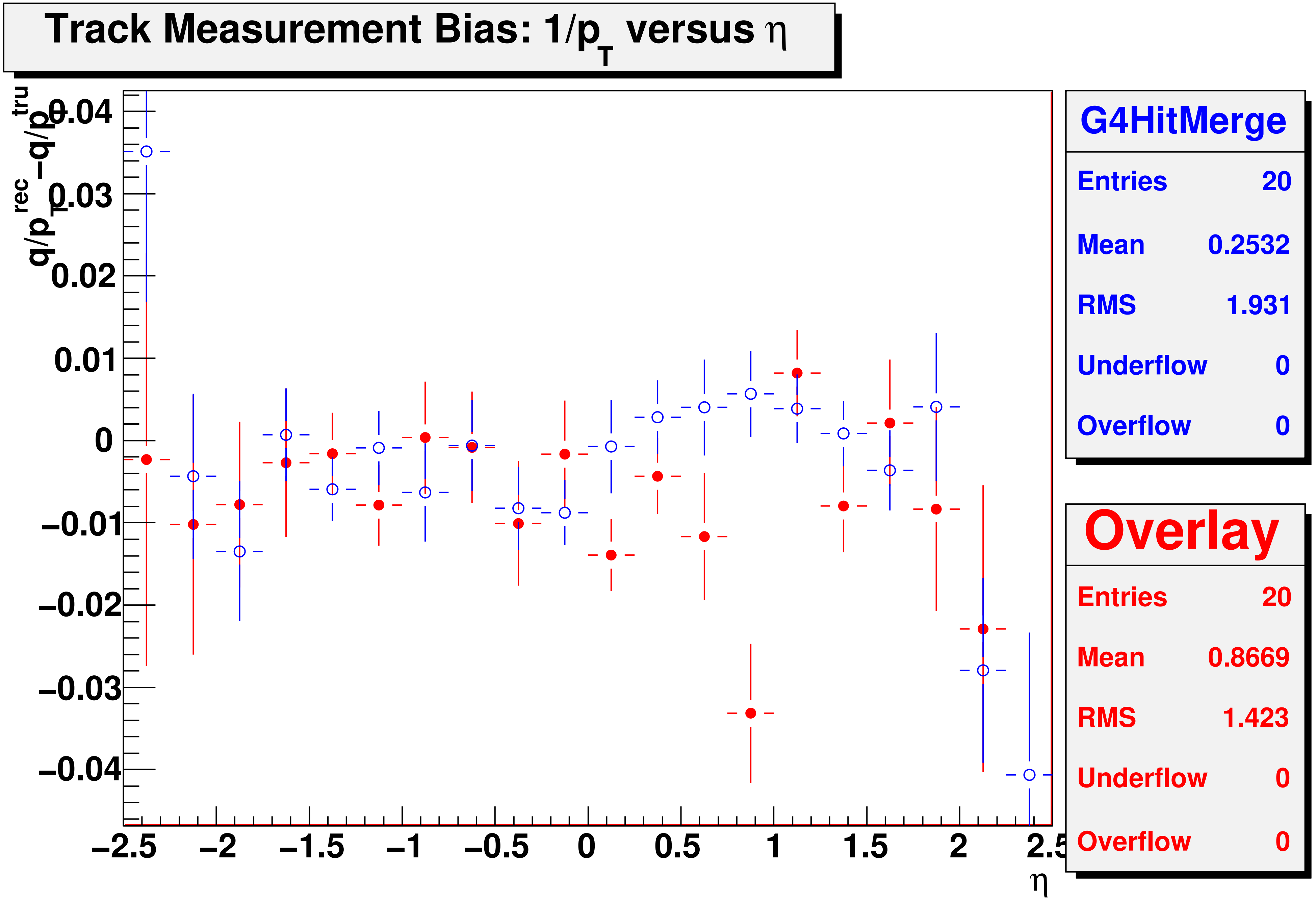

Track Resolution: z0*sin(θ) versus η
σ(z0sin(θ)rec−z0sin(θ)tru)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.01061
RMS 1.28
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.004604
RMS 1.205
Underflow 0
Overflow 0

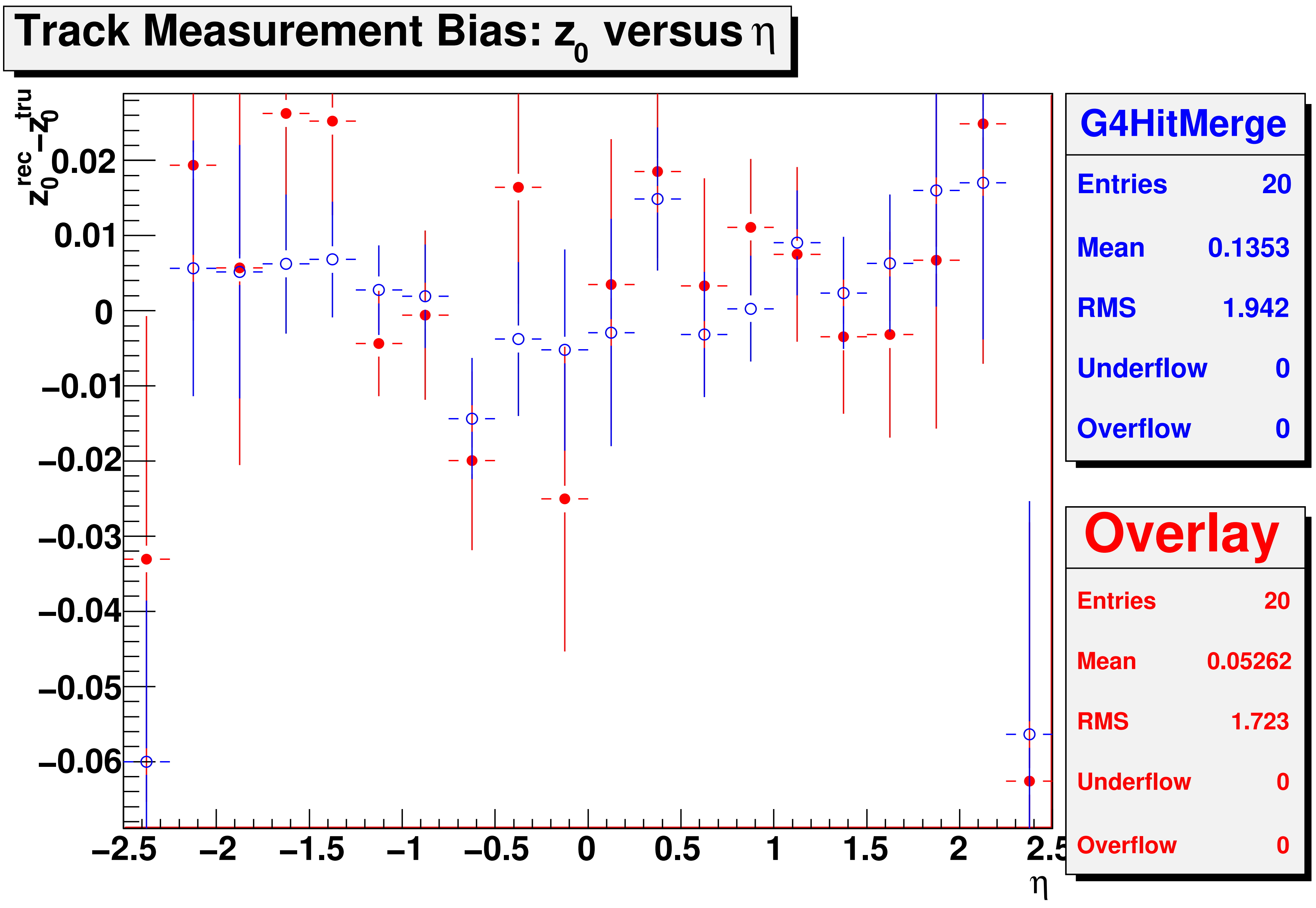


Track Measurement Bias: d_0 versus η
$d_0^{rec}-d_0^{tru}$
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.007189
RMS 1.454
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.699
RMS 1.463
Underflow 0
Overflow 0

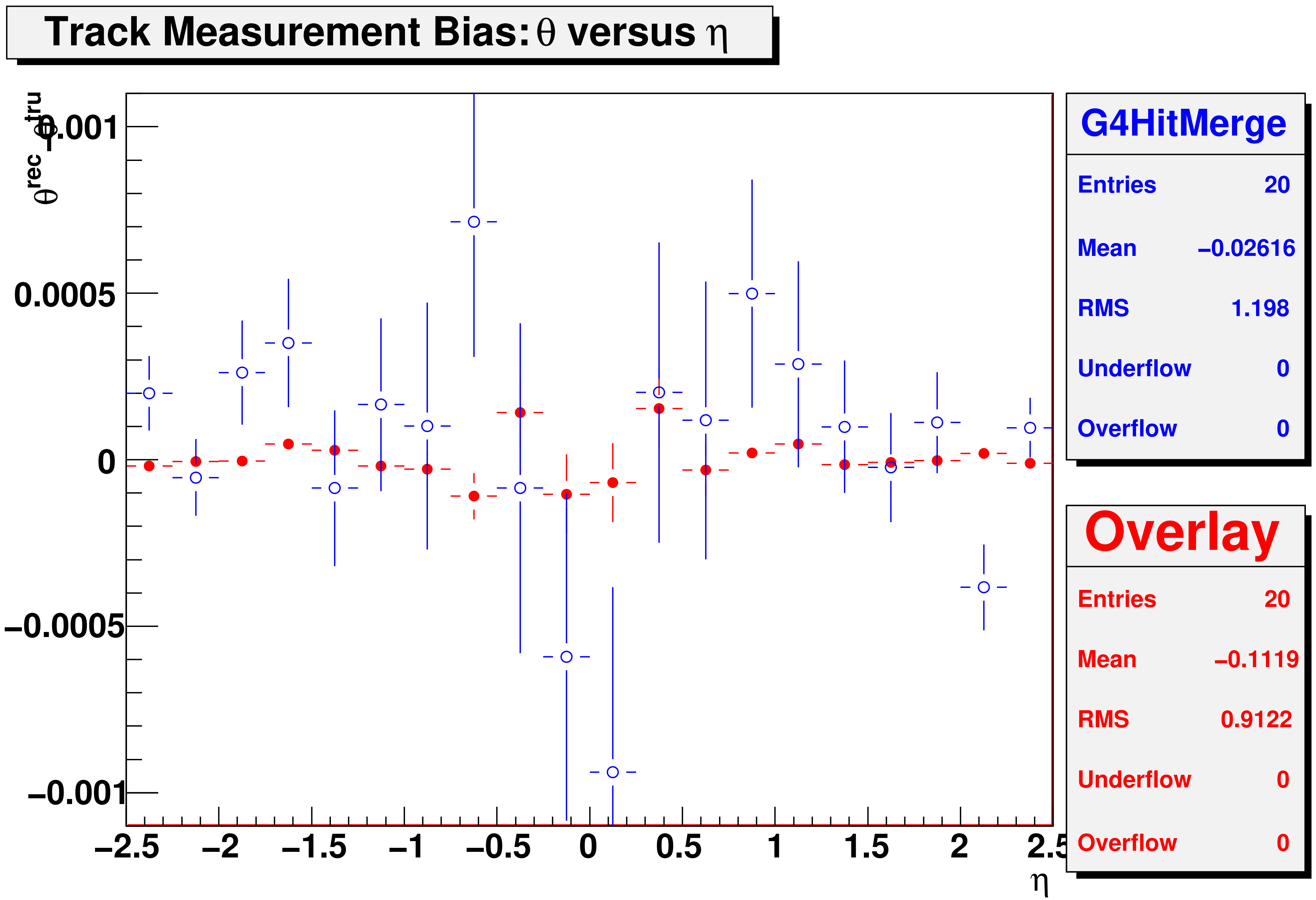


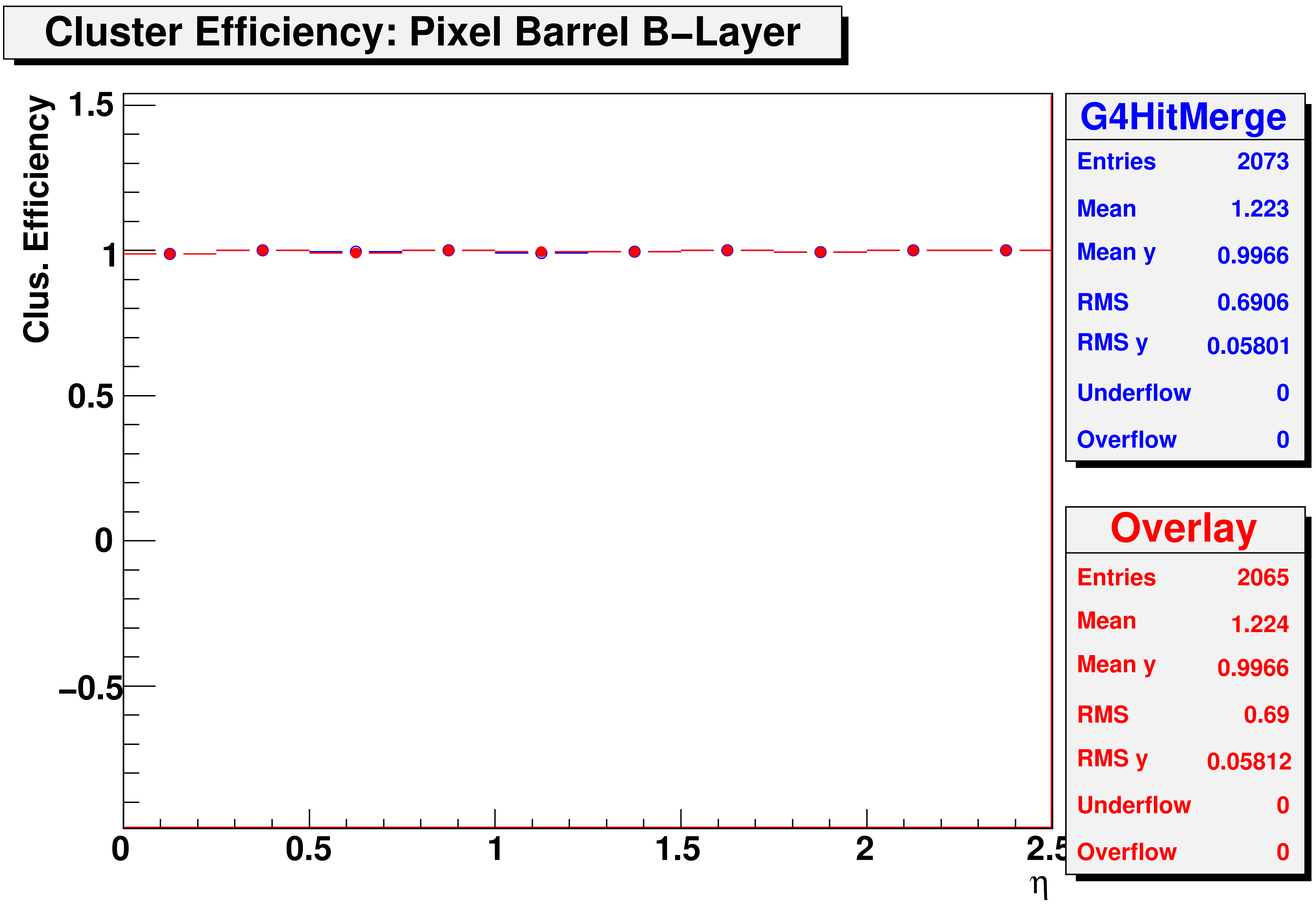
Track Measurement Bias: φ versus η
φ^rec − φ^tru
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.5173
RMS 1.297
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.7319
RMS 1.482
Underflow 0
Overflow 0


Track Measurement Bias: 1/p_T versus η
q/p_T^rec−q/p_T^tru
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 0.2532
RMS 1.931
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.8669
RMS 1.423
Underflow 0
Overflow 0

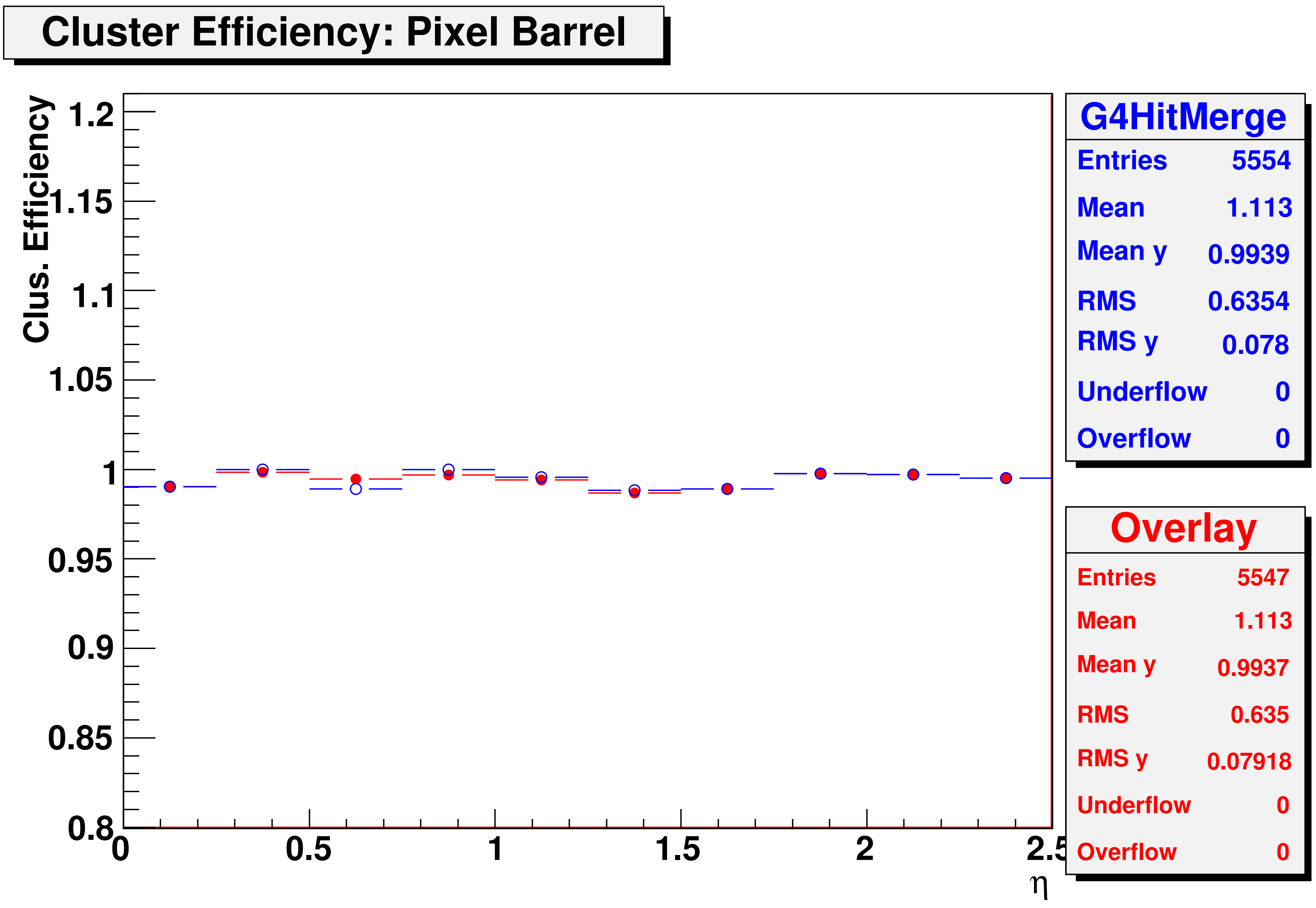


Track Measurement Bias: z0 versus η
z0rec−z0tru
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.1353
RMS 1.942
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.05262
RMS 1.723
Underflow 0
Overflow 0

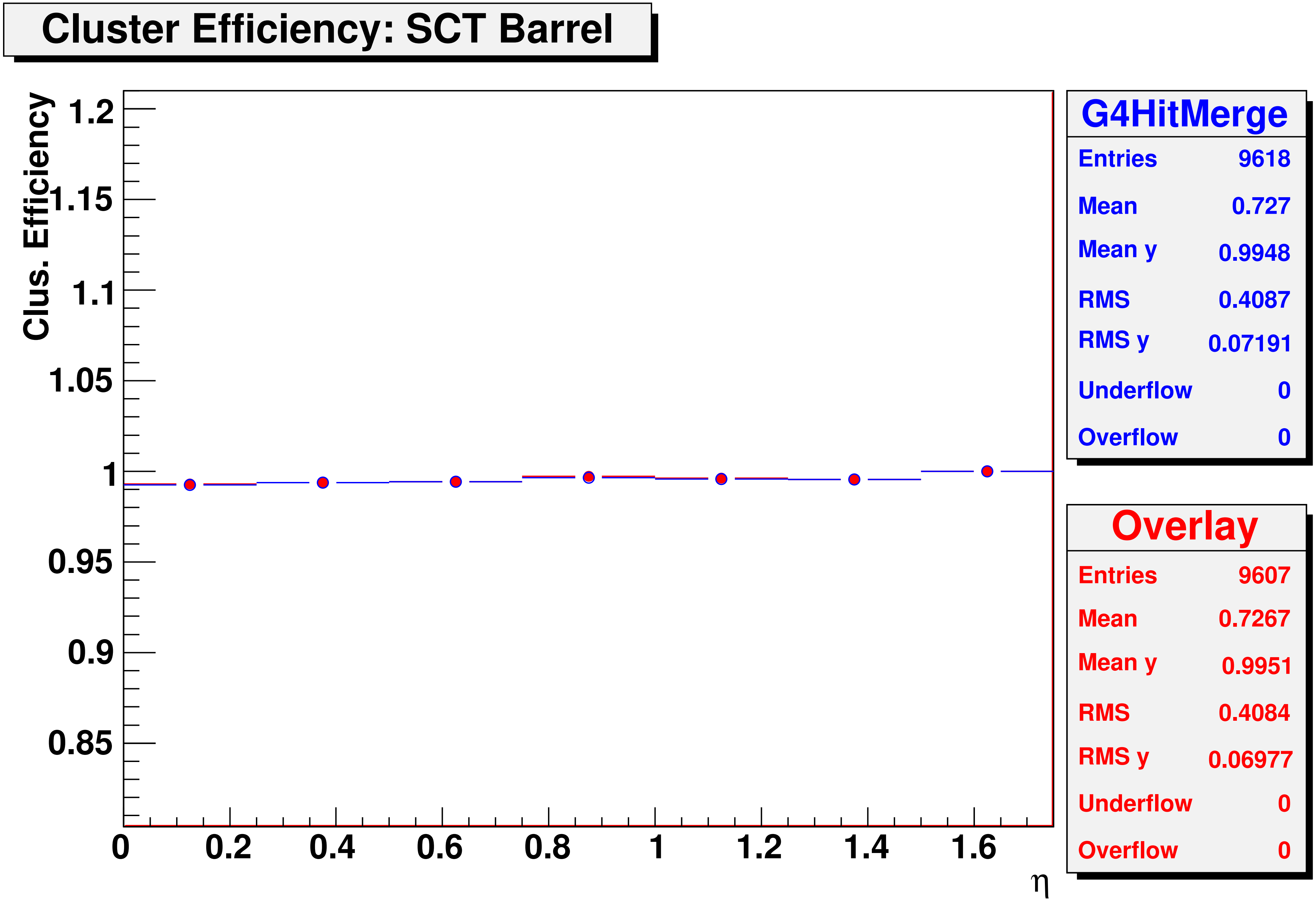

Track Measurement Bias: θ versus η
$\theta^{rec}-\theta^{tru}$
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.02616
RMS 1.198
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.1119
RMS 0.9122
Underflow 0
Overflow 0



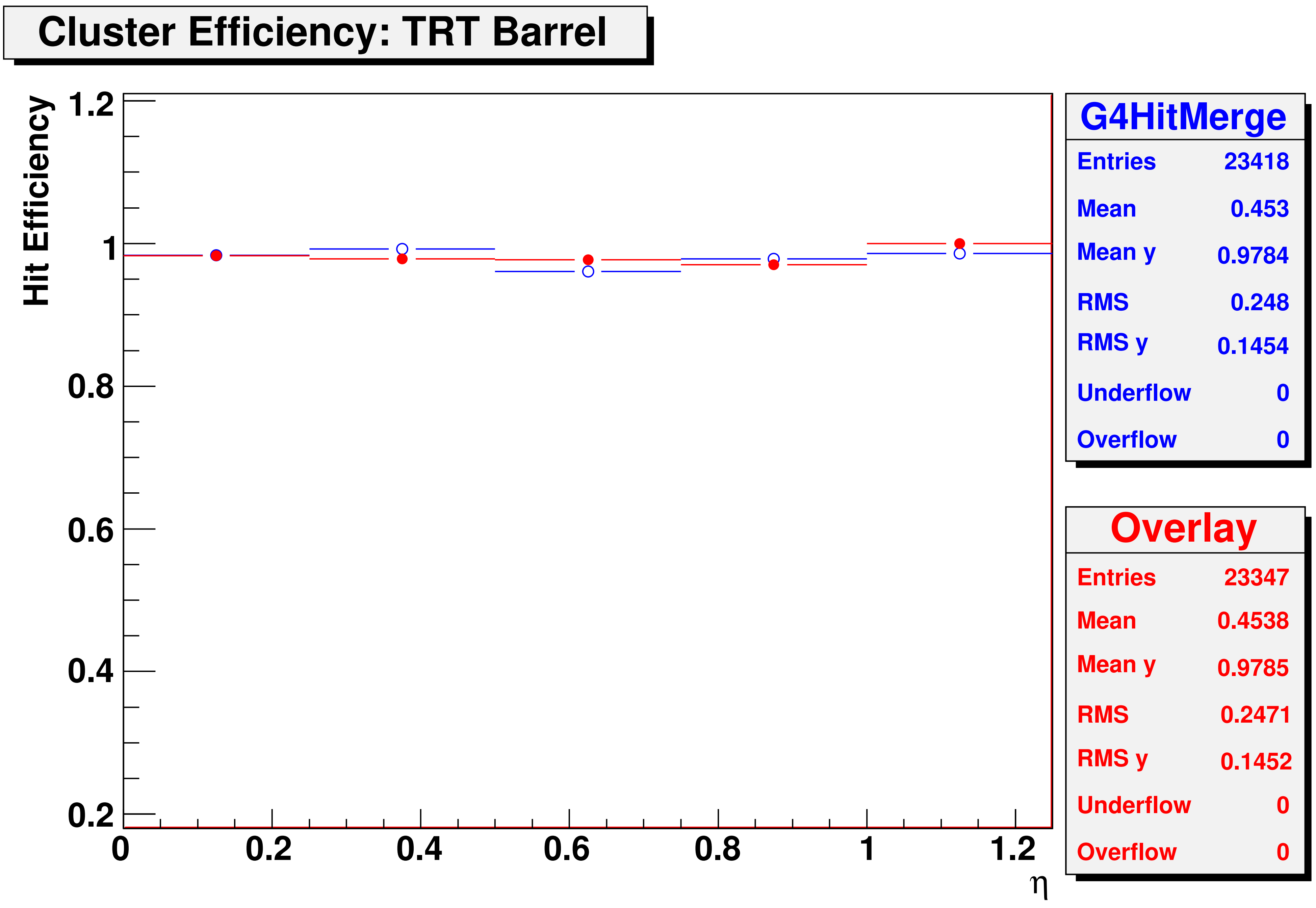
Cluster Efficiency: Pixel Barrel B–Layer
Clus. Efficiency
1.5
1
0.5
0
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 2073
Mean 1.223
Mean y 0.9966
RMS 0.6906
RMS y 0.05801
Underflow 0
Overflow 0
Overlay
Entries 2065
Mean 1.224
Mean y 0.9966
RMS 0.69
RMS y 0.05812
Underflow 0
Overflow 0

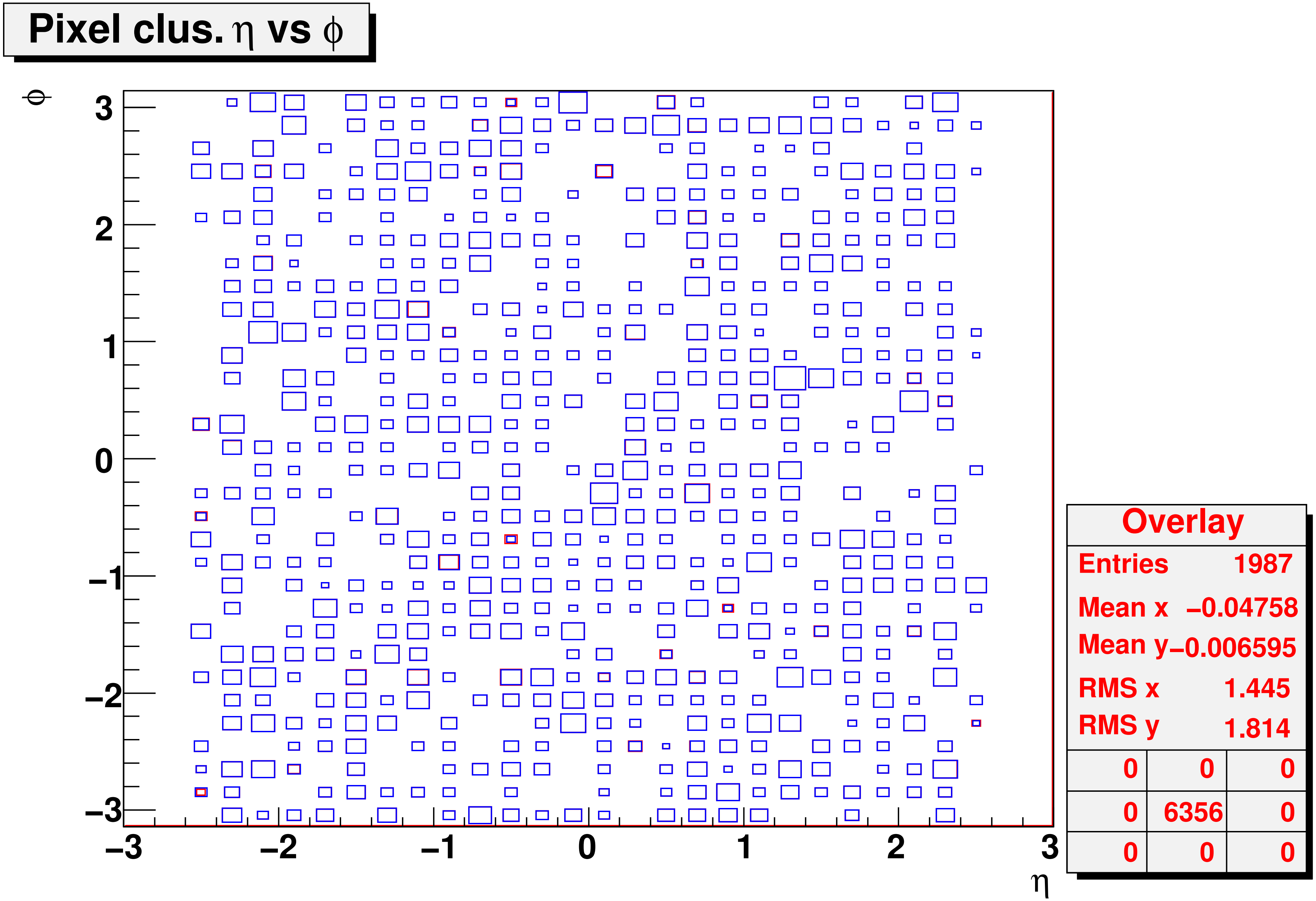


Cluster Efficiency: Pixel Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 5554
Mean 1.113
Mean y 0.9939
RMS 0.6354
RMS y 0.078
Underflow 0
Overflow 0
Overlay
Entries 5547
Mean 1.113
Mean y 0.9937
RMS 0.635
RMS y 0.07918
Underflow 0
Overflow 0

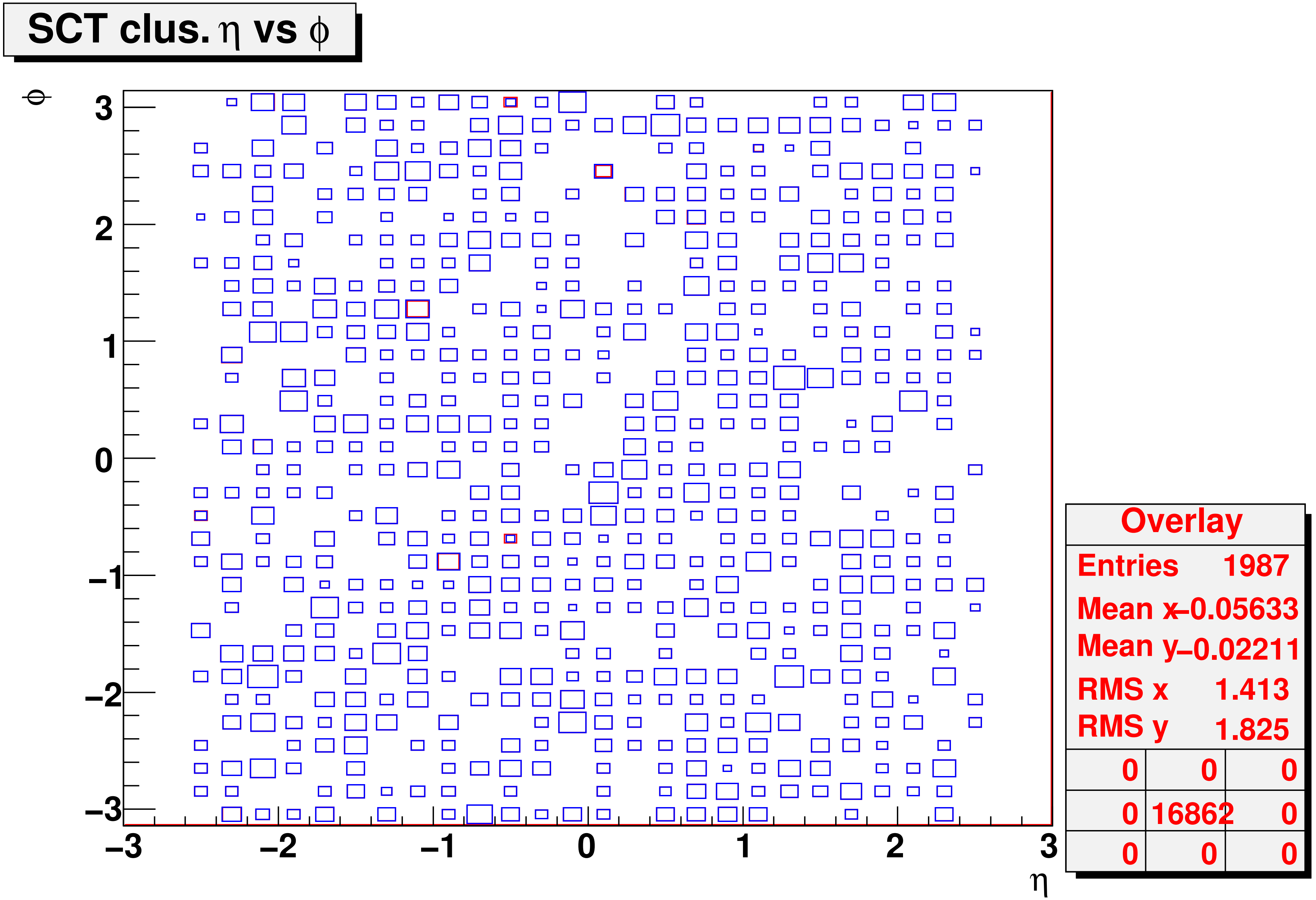


Cluster Efficiency: SCT Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
η
G4HitMerge
Entries 9618
Mean 0.727
Mean y 0.9948
RMS 0.4087
RMS y 0.07191
Underflow 0
Overflow 0
Overlay
Entries 9607
Mean 0.7267
Mean y 0.9951
RMS 0.4084
RMS y 0.06977
Underflow 0
Overflow 0

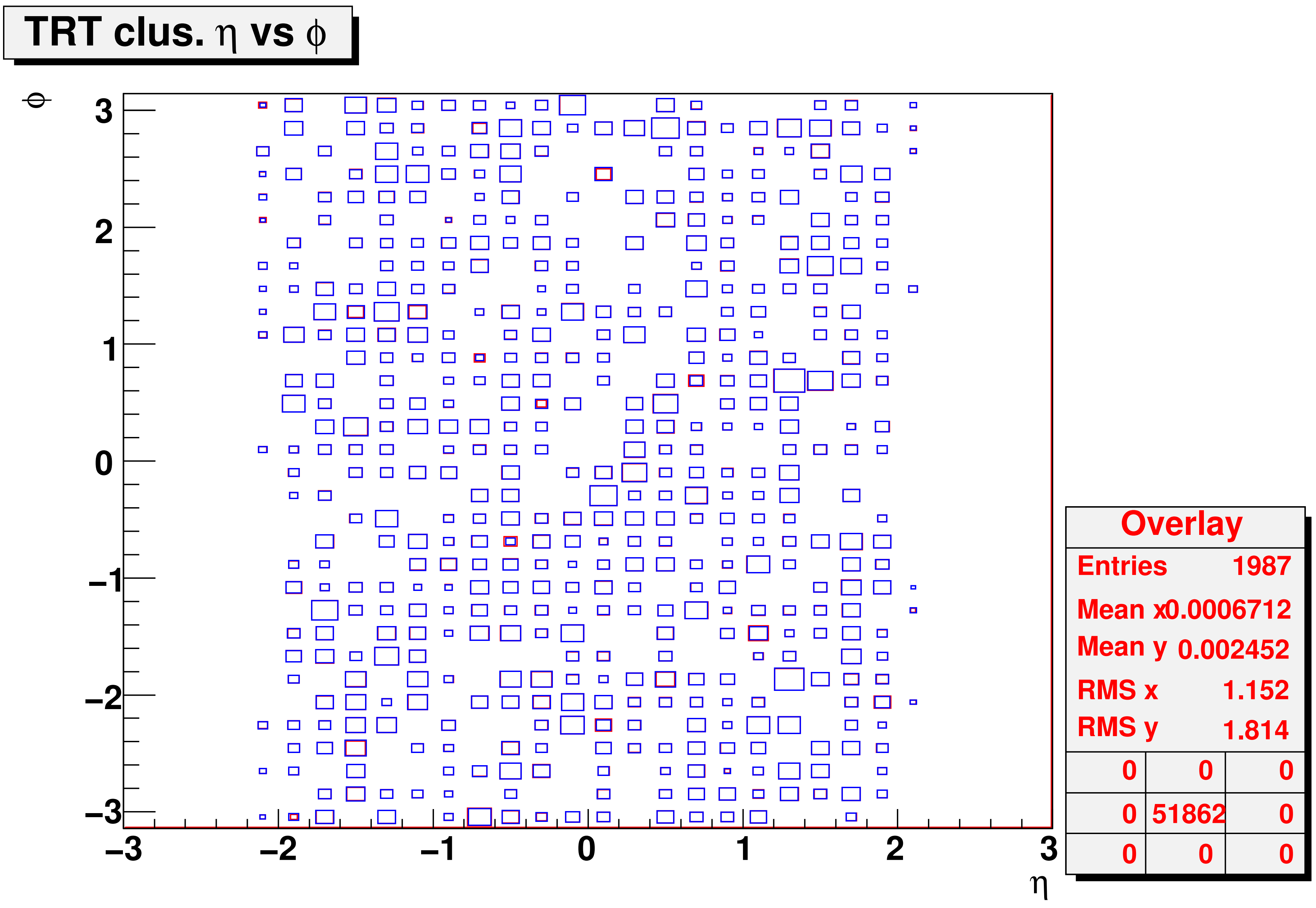

Cluster Efficiency: TRT Barrel
Hit Efficiency
1.2
1
0.8
0.6
0.4
0.2
0
0.2
0.4
0.6
0.8
1
1.2
η
G4HitMerge
Entries 23418
Mean 0.453
Mean y 0.9784
RMS 0.248
RMS y 0.1454
Underflow 0
Overflow 0
Overlay
Entries 23347
Mean 0.4538
Mean y 0.9785
RMS 0.2471
RMS y 0.1452
Underflow 0
Overflow 0



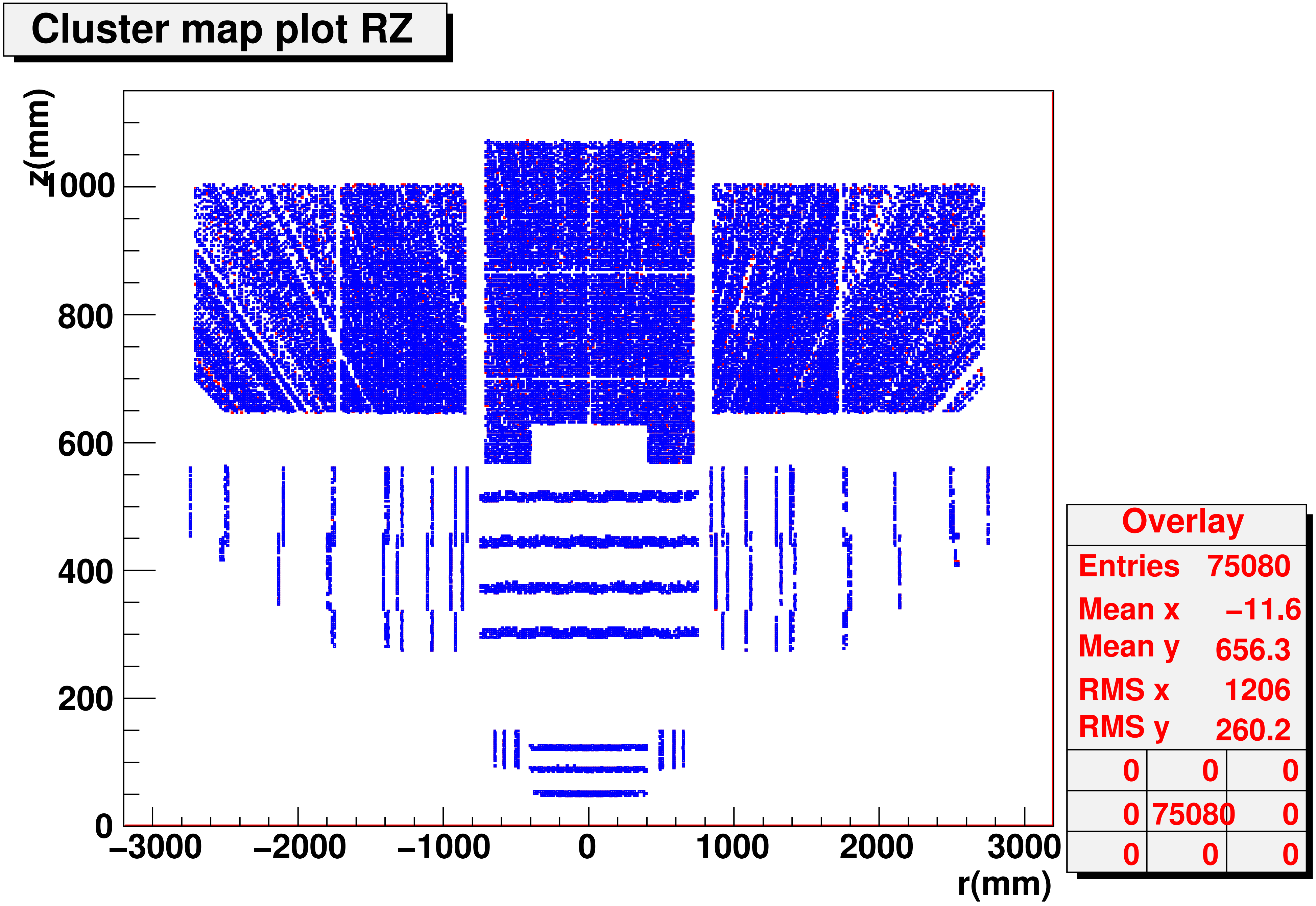
Pixel clus. η vs φ
φ
η
3
2
1
0
−1
−2
−3
Overlay
Entries 1987
Mean x −0.04758
Mean y −0.006595
RMS x 1.445
RMS y 1.814
0 0 0
0 6356 0
0 0 0



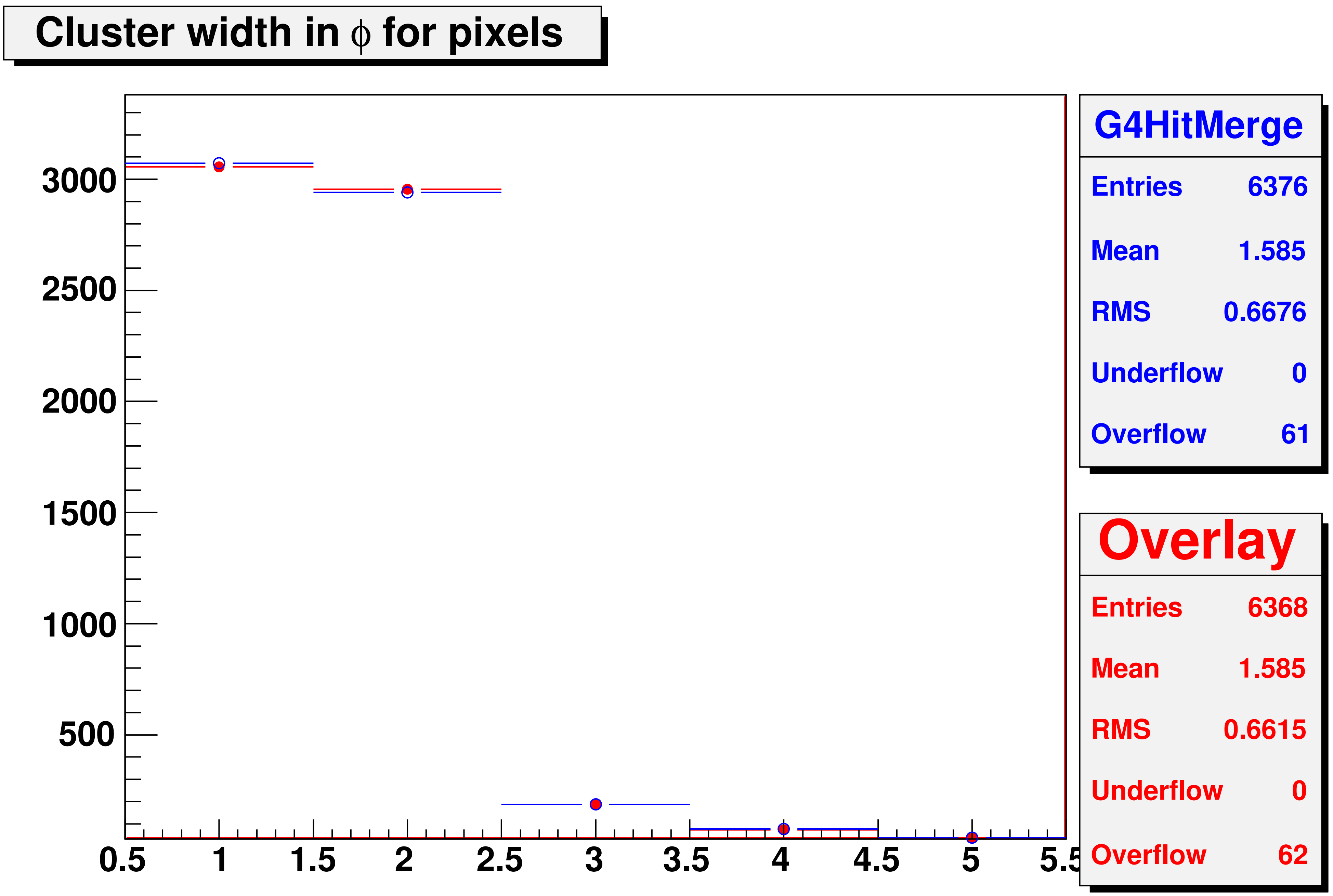
SCT clus. η vs φ
φ
η
Overlay
Entries 1987
Mean x -0.05633
Mean y -0.02211
RMS x 1.413
RMS y 1.825
0 0 0
0 16862 0
0 0 0



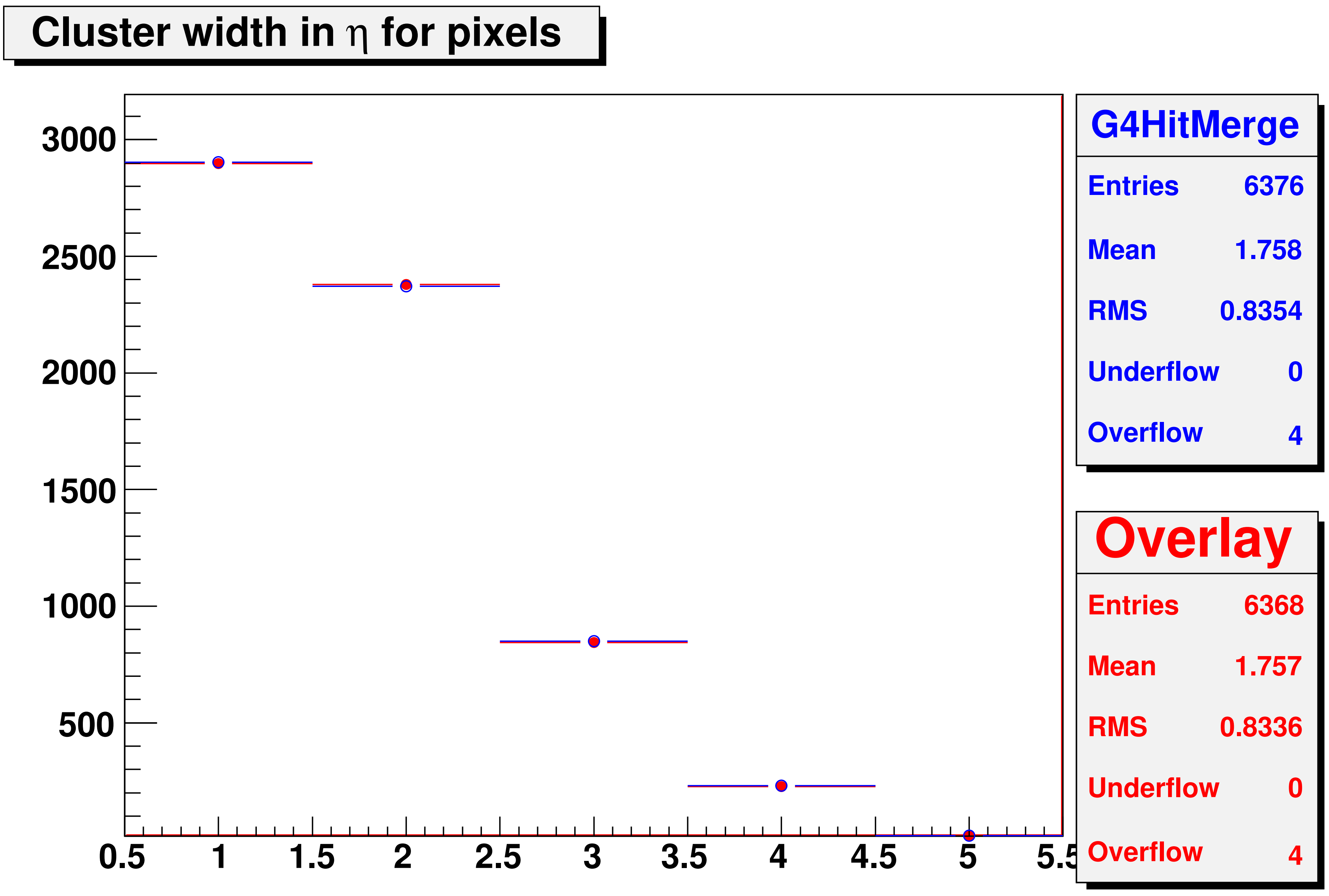
TRT clus. η vs ϕ
ϕ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1987
Mean x 0.0006712
Mean y 0.002452
RMS x 1.152
RMS y 1.814
0 0 0
0 51862 0
0 0 0



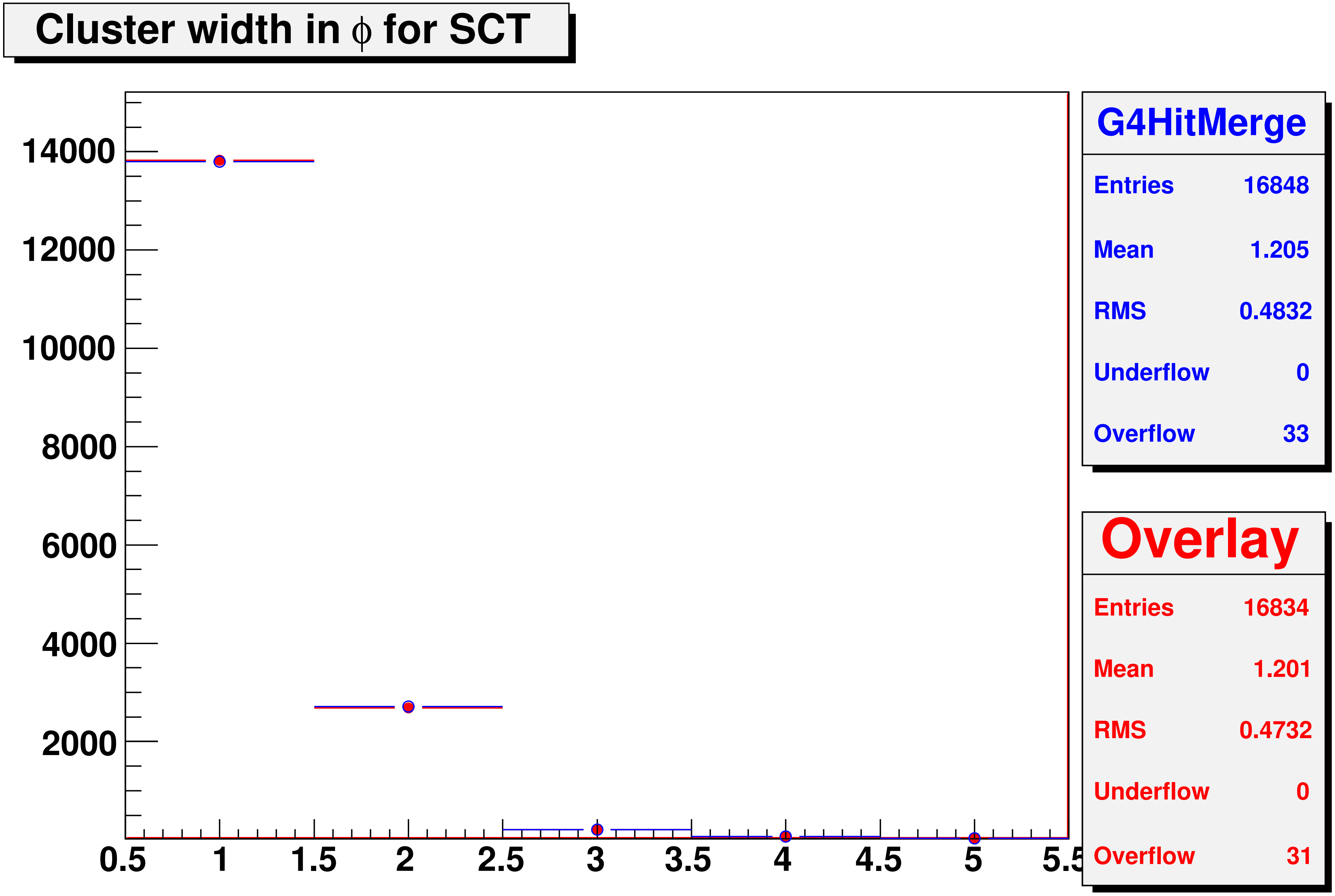
Cluster map plot RZ
z(mm)
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000
r(mm)
Overlay
Entries 75080
Mean x −11.6
Mean y 656.3
RMS x 1206
RMS y 260.2
0 0 0
0 75080 0
0 0 0

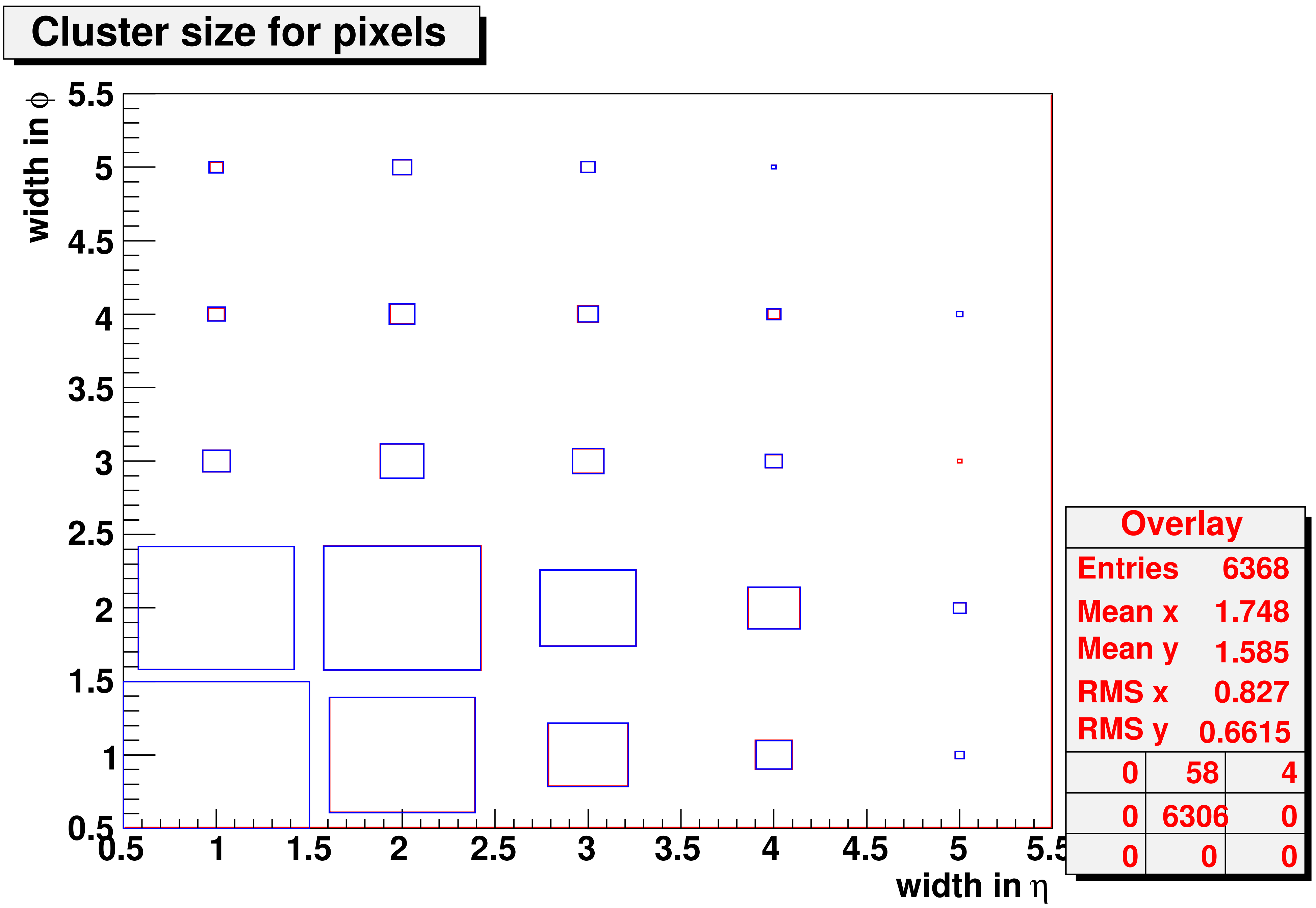


Cluster width in ϕ for pixels
3000
2500
2000
1500
1000
500
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 6376
Mean 1.585
RMS 0.6676
Underflow 0
Overflow 61
Overlay
Entries 6368
Mean 1.585
RMS 0.6615
Underflow 0
Overflow 62

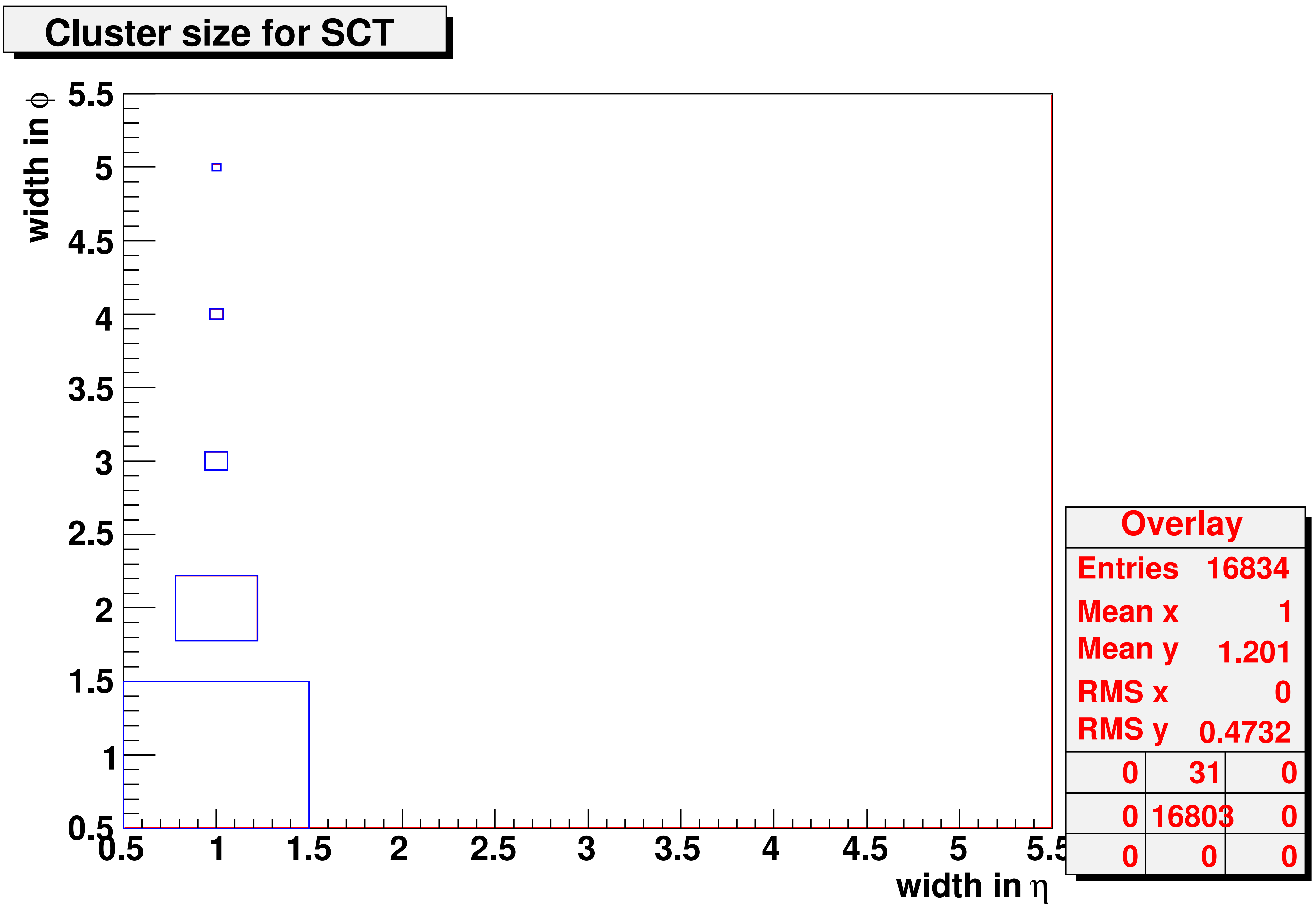


Cluster width in η for pixels
3000
2500
2000
1500
1000
500
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 6376
Mean 1.758
RMS 0.8354
Underflow 0
Overflow 4
Overlay
Entries 6368
Mean 1.757
RMS 0.8336
Underflow 0
Overflow 4

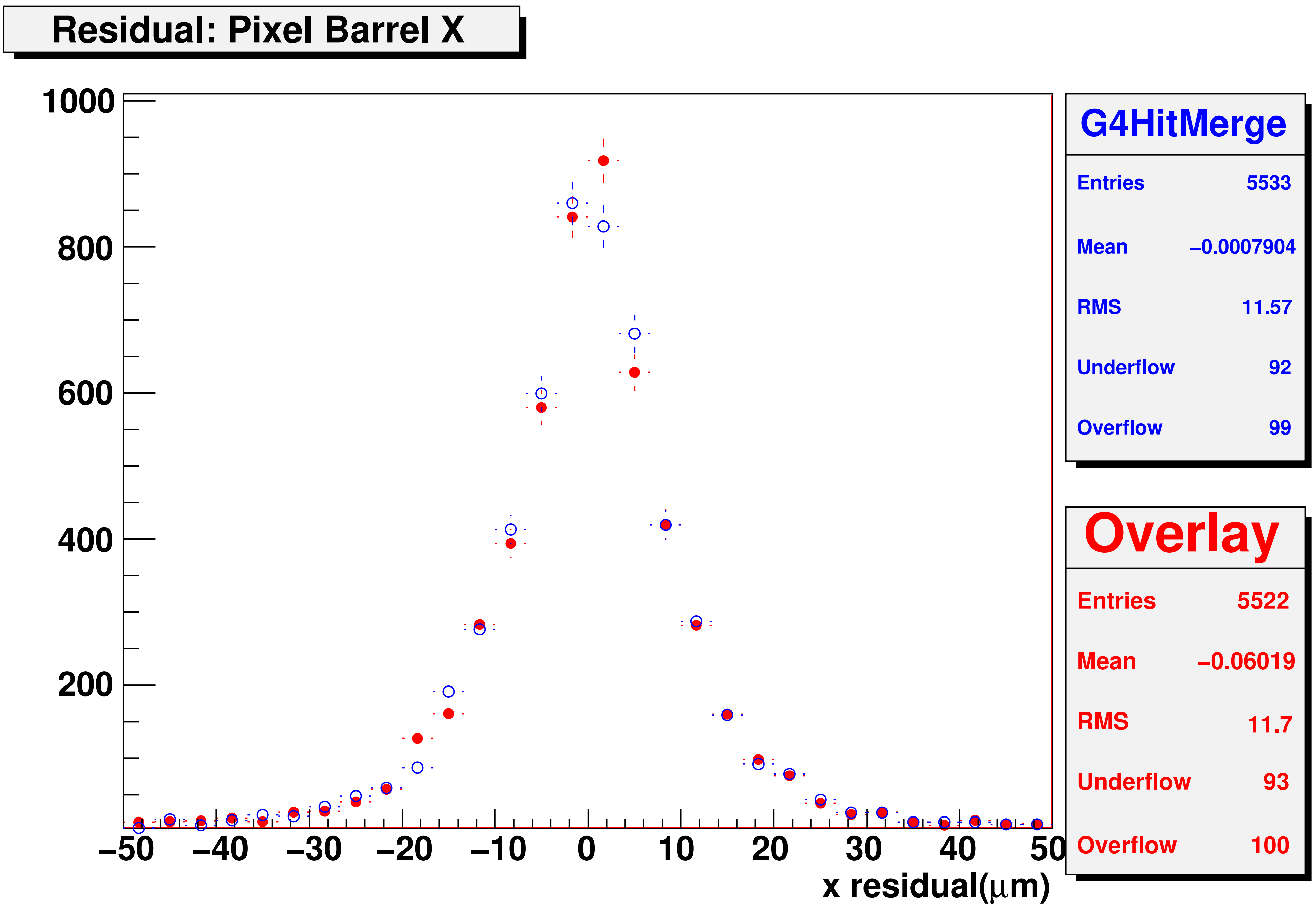

Cluster width in ϕ for SCT
14000
12000
10000
8000
6000
4000
2000
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 16848
Mean 1.205
RMS 0.4832
Underflow 0
Overflow 33
Overlay
Entries 16834
Mean 1.201
RMS 0.4732
Underflow 0
Overflow 31



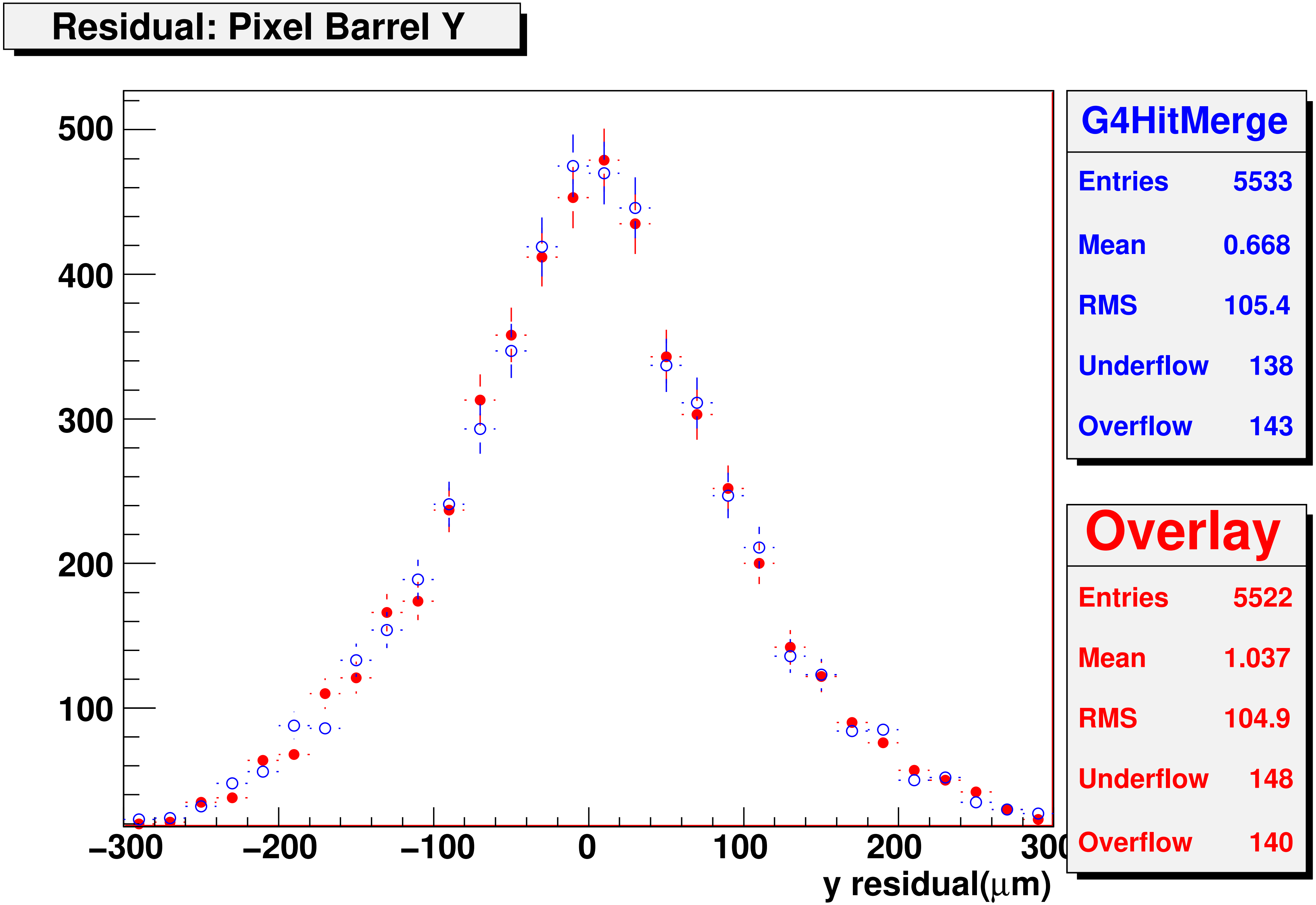
Cluster size for pixels
width in ϕ
width in η
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 6368
Mean x 1.748
Mean y 1.585
RMS x 0.827
RMS y 0.6615
0 58 4
0 6306 0
0 0 0

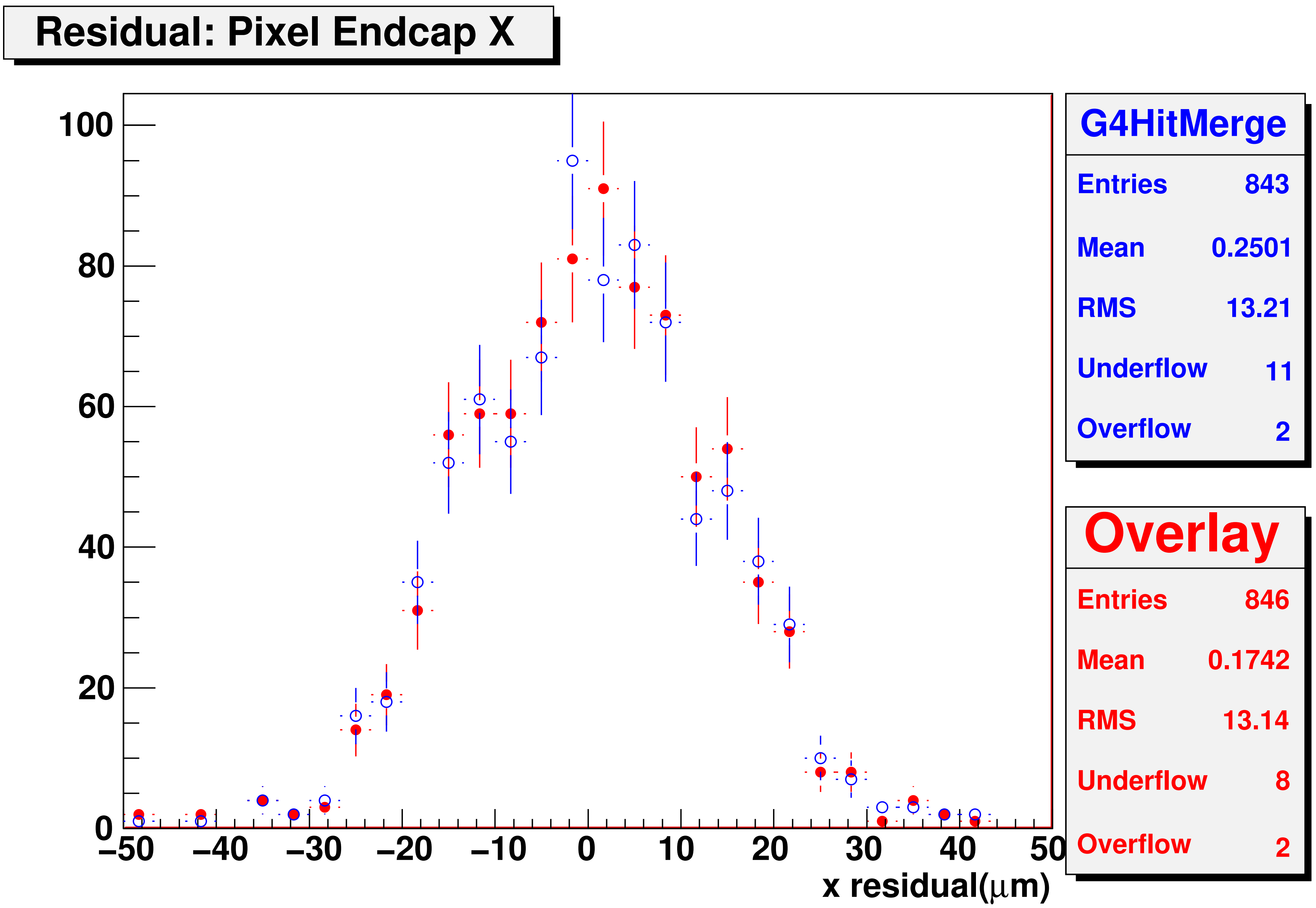


Cluster size for SCT
width in ϕ
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
width in η
Overlay
Entries 16834
Mean x 1
Mean y 1.201
RMS x 0
RMS y 0.4732
0 31 0
0 16803 0
0 0 0

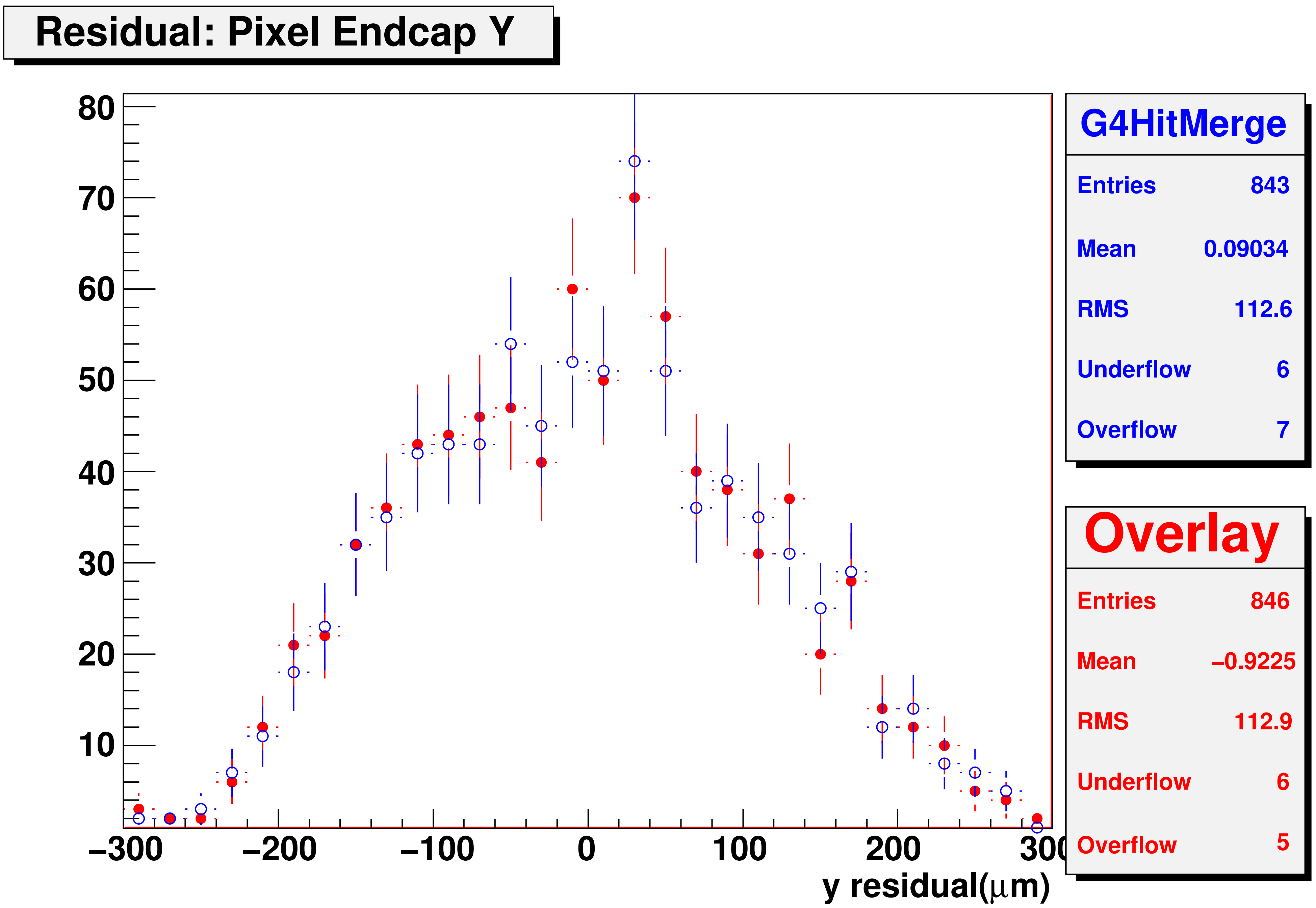


Residual: Pixel Barrel X
1000
800
600
400
200
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 5533
Mean −0.0007904
RMS 11.57
Underflow 92
Overflow 99
Overlay
Entries 5522
Mean −0.06019
RMS 11.7
Underflow 93
Overflow 100

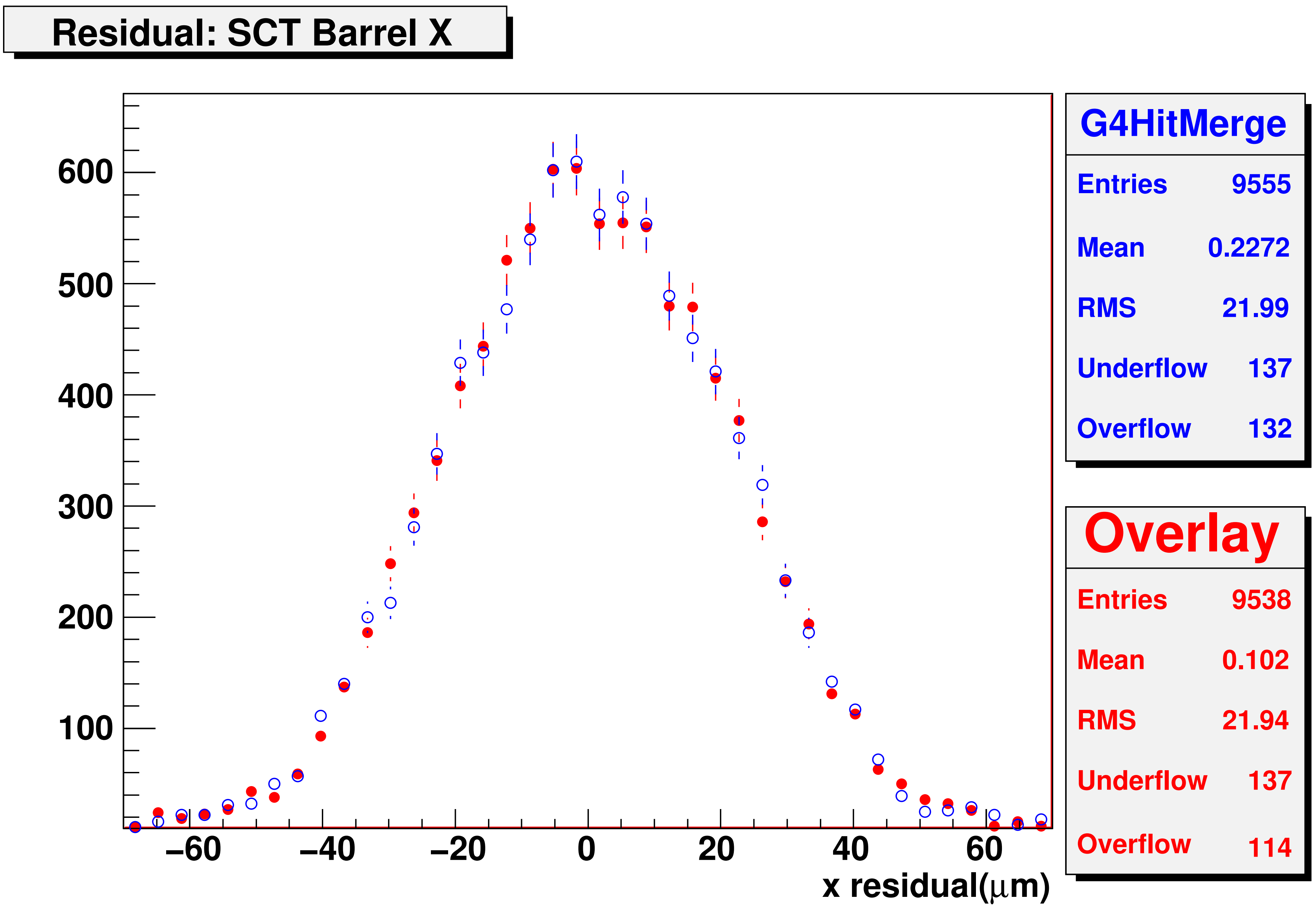

Residual: Pixel Barrel Y
500
400
300
200
100
−300
−200
−100
0
100
200
300
y residual(μm)
G4HitMerge
Entries 5533
Mean 0.668
RMS 105.4
Underflow 138
Overflow 143
Overlay
Entries 5522
Mean 1.037
RMS 104.9
Underflow 148
Overflow 140



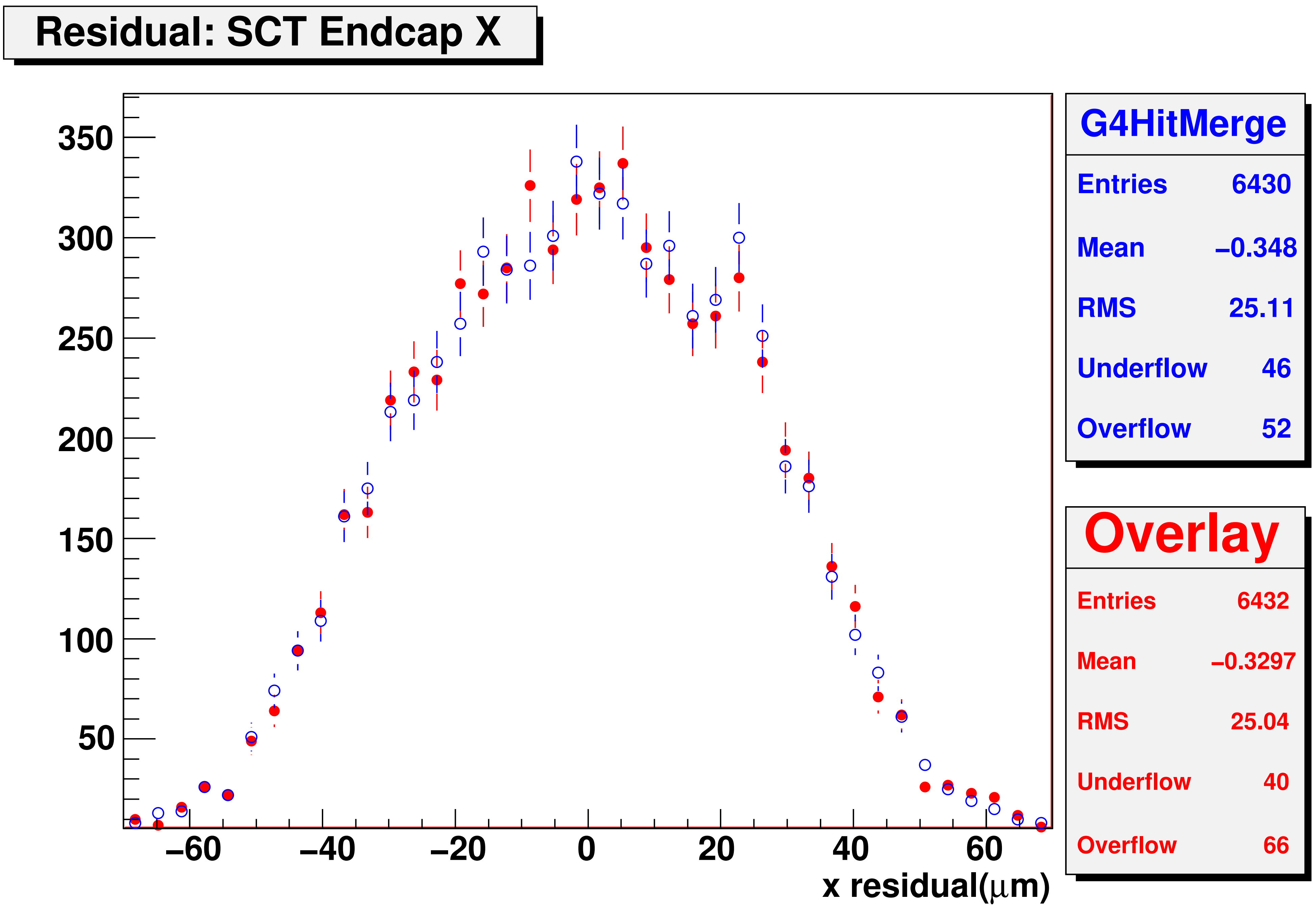
Residual: Pixel Endcap X
G4HitMerge
Entries 843
Mean 0.2501
RMS 13.21
Underflow 11
Overflow 2
Overlay
Entries 846
Mean 0.1742
RMS 13.14
Underflow 8
Overflow 2
x residual(μm)
100
80
60
40
20
0
−50
−40
−30
−20
−10
0
10
20
30
40
50



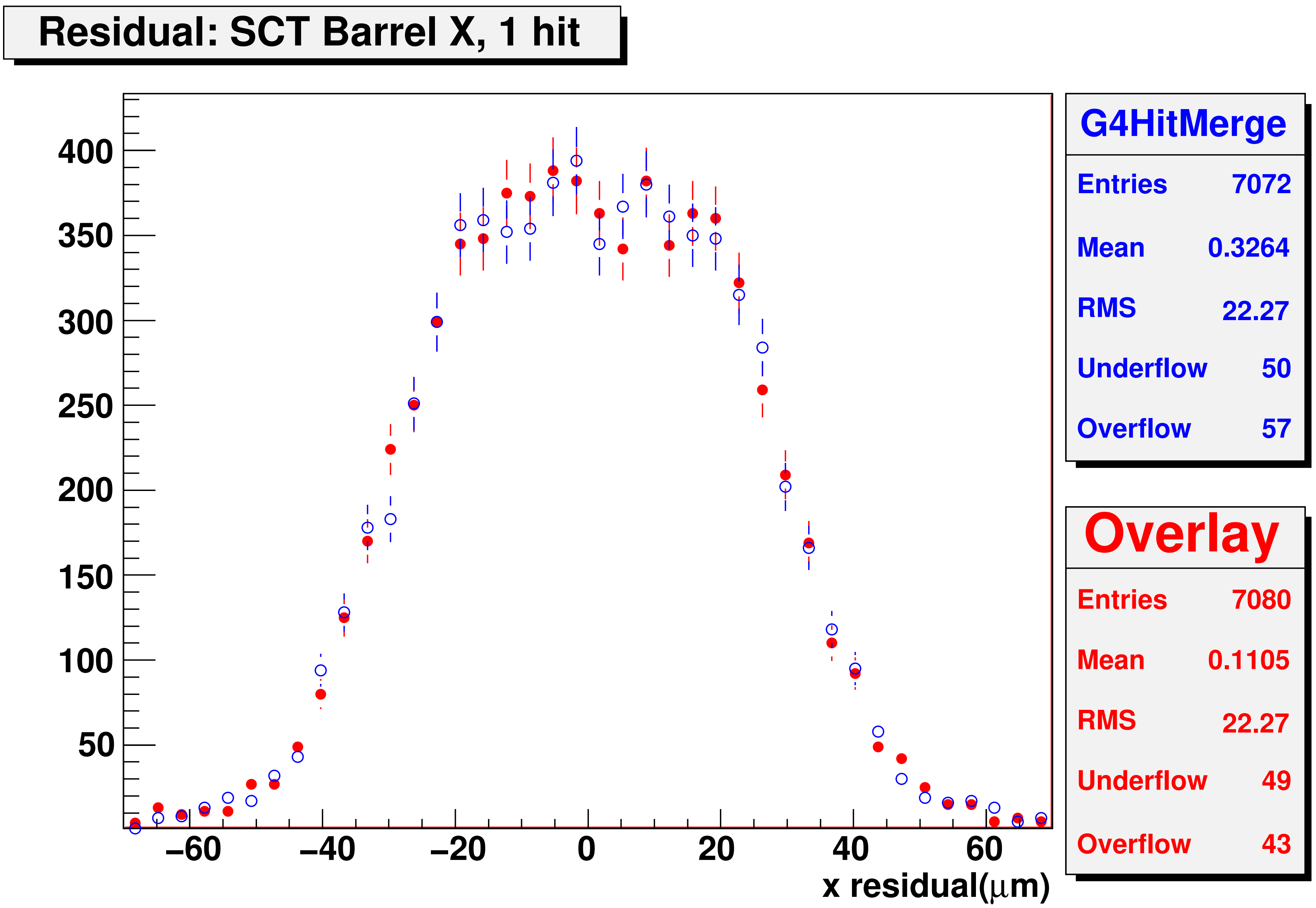
Residual: Pixel Endcap Y
G4HitMerge
Entries 843
Mean 0.09034
RMS 112.6
Underflow 6
Overflow 7
Overlay
Entries 846
Mean −0.9225
RMS 112.9
Underflow 6
Overflow 5
y residual(μm)



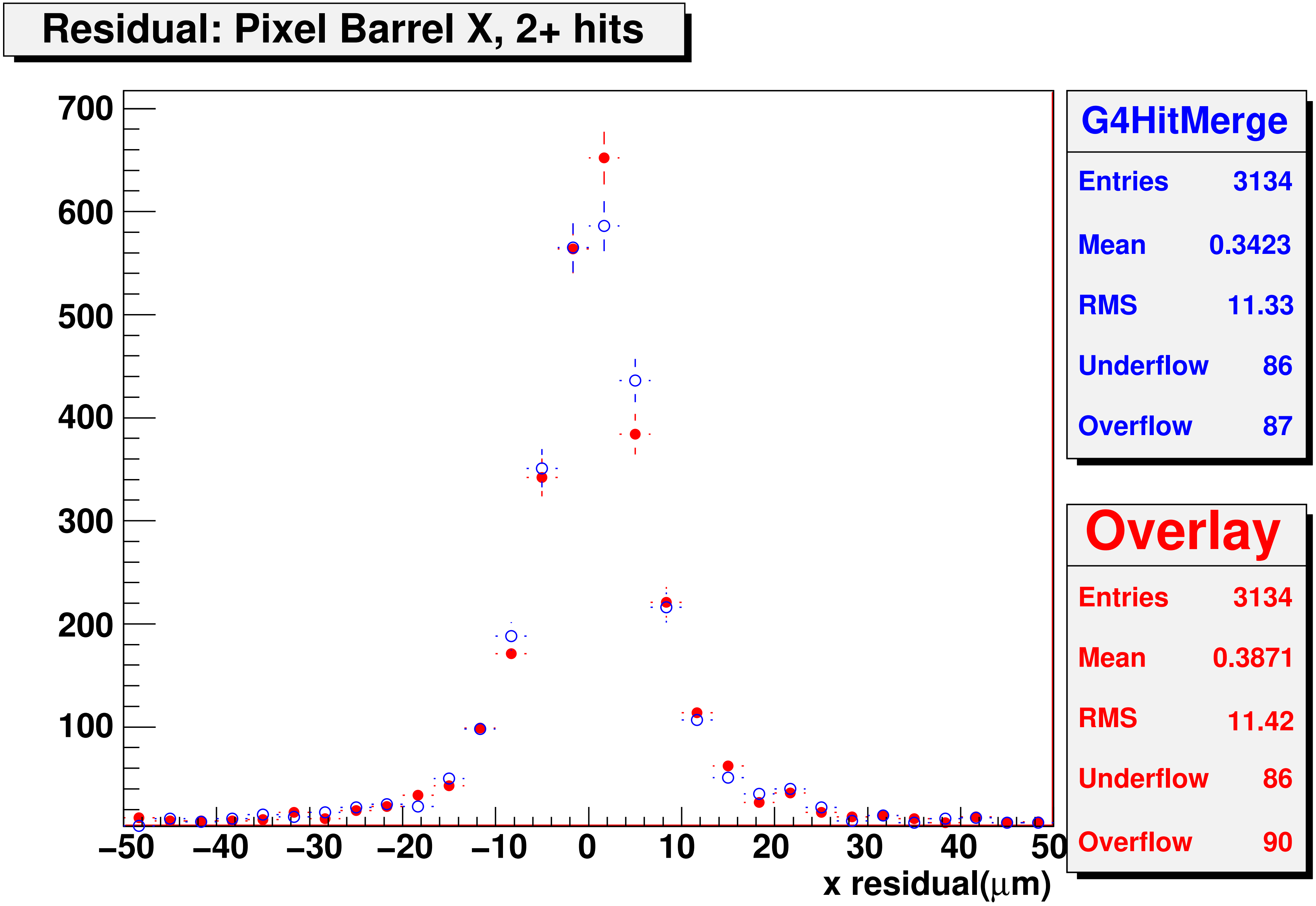
Residual: SCT Barrel X
600
500
400
300
200
100
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 9555
Mean 0.2272
RMS 21.99
Underflow 137
Overflow 132
Overlay
Entries 9538
Mean 0.102
RMS 21.94
Underflow 137
Overflow 114



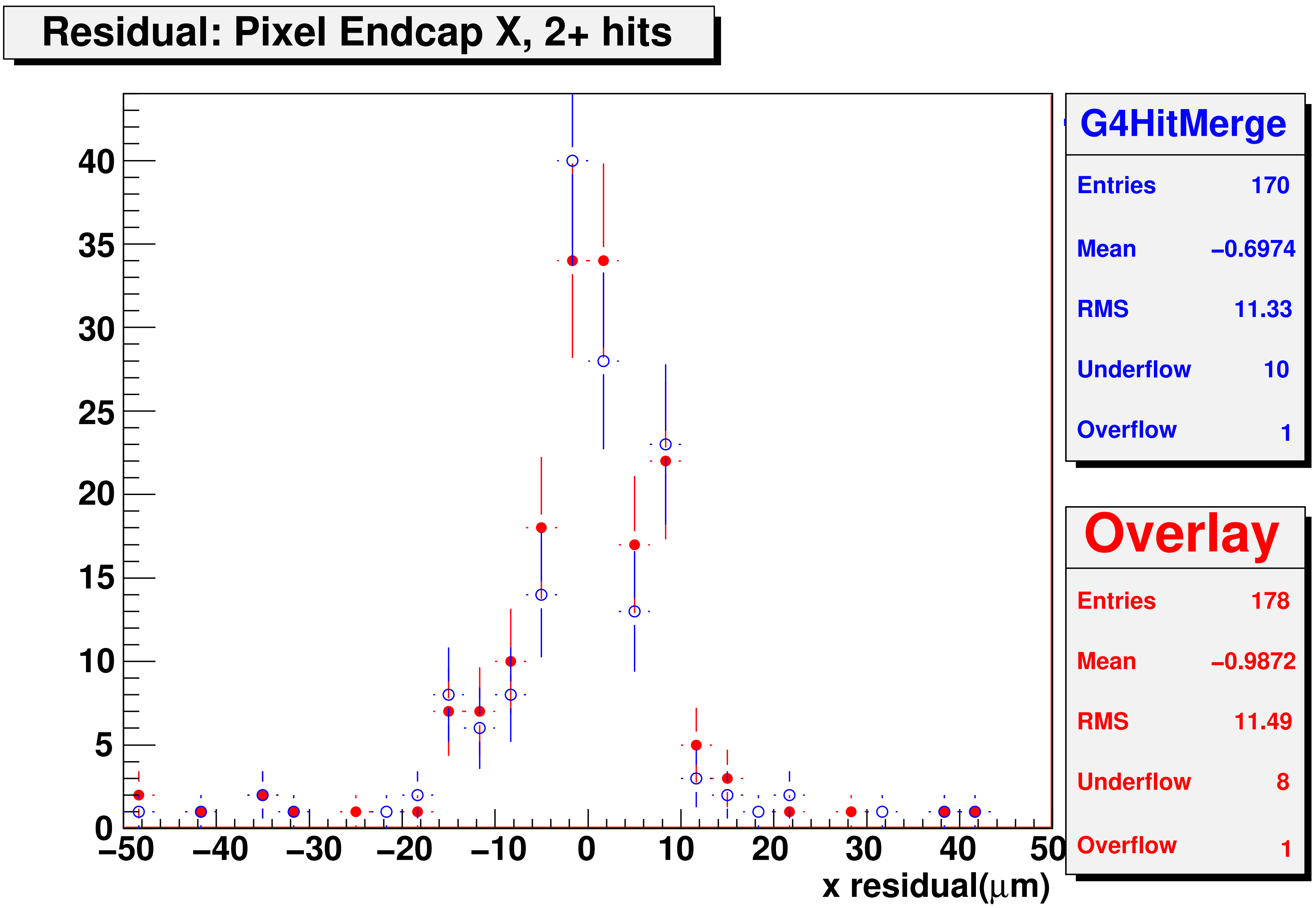
Residual: SCT Endcap X
350
300
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 6430
Mean −0.348
RMS 25.11
Underflow 46
Overflow 52
Overlay
Entries 6432
Mean −0.3297
RMS 25.04
Underflow 40
Overflow 66



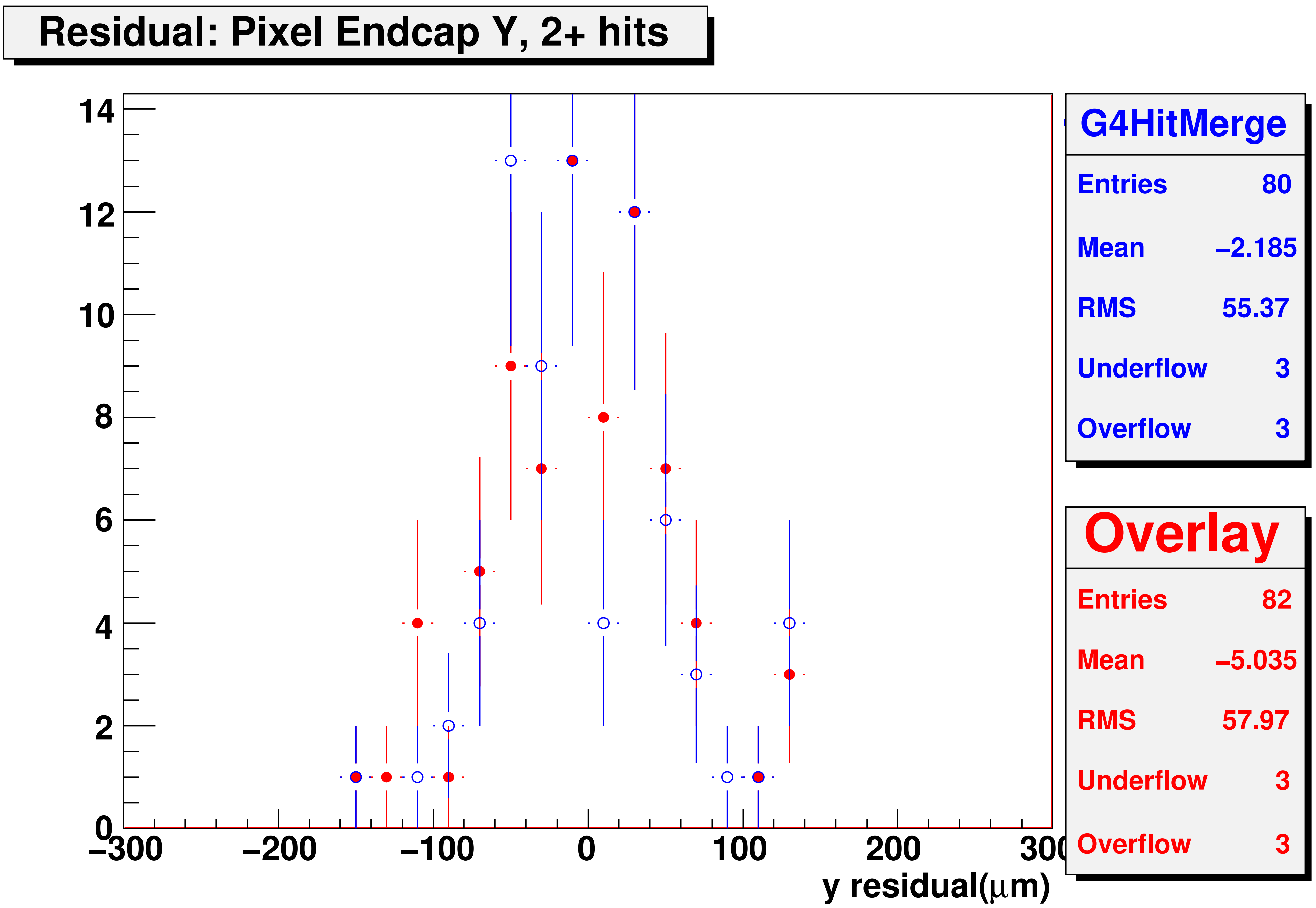
Residual: SCT Barrel X, 1 hit
G4HitMerge
Entries 7072
Mean 0.3264
RMS 22.27
Underflow 50
Overflow 57
Overlay
Entries 7080
Mean 0.1105
RMS 22.27
Underflow 49
Overflow 43
x residual(μm)
400
350
300
250
200
150
100
50
−60
−40
−20
0
20
40
60



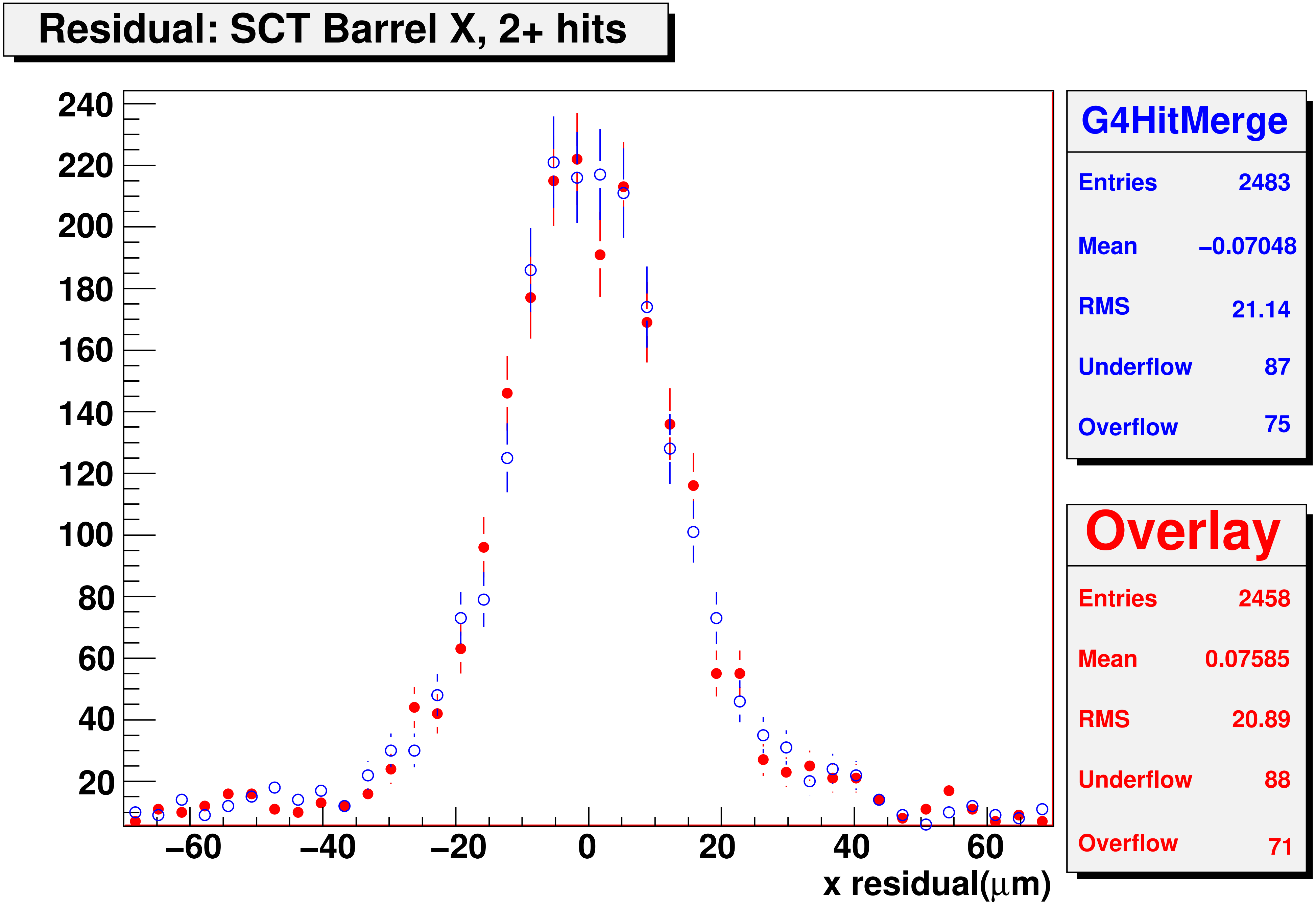
Residual: Pixel Barrel X, 2+ hits
700
600
500
400
300
200
100
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 3134
Mean 0.3423
RMS 11.33
Underflow 86
Overflow 87
Overlay
Entries 3134
Mean 0.3871
RMS 11.42
Underflow 86
Overflow 90

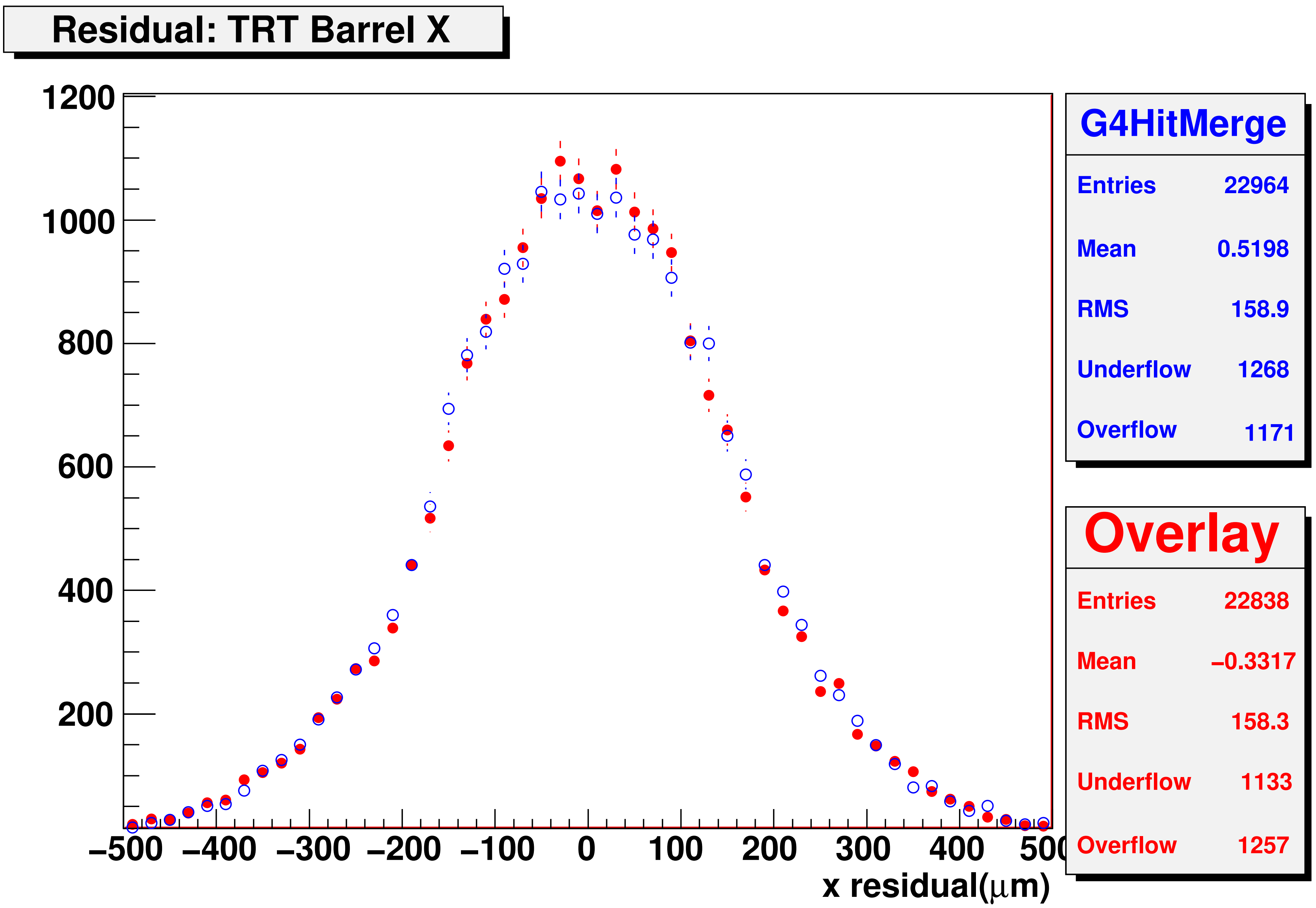


Residual: Pixel Endcap X, 2+ hits
G4HitMerge
Entries 170
Mean −0.6974
RMS 11.33
Underflow 10
Overflow 1
Overlay
Entries 178
Mean −0.9872
RMS 11.49
Underflow 8
Overflow 1
0
5
10
15
20
25
30
35
40
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)

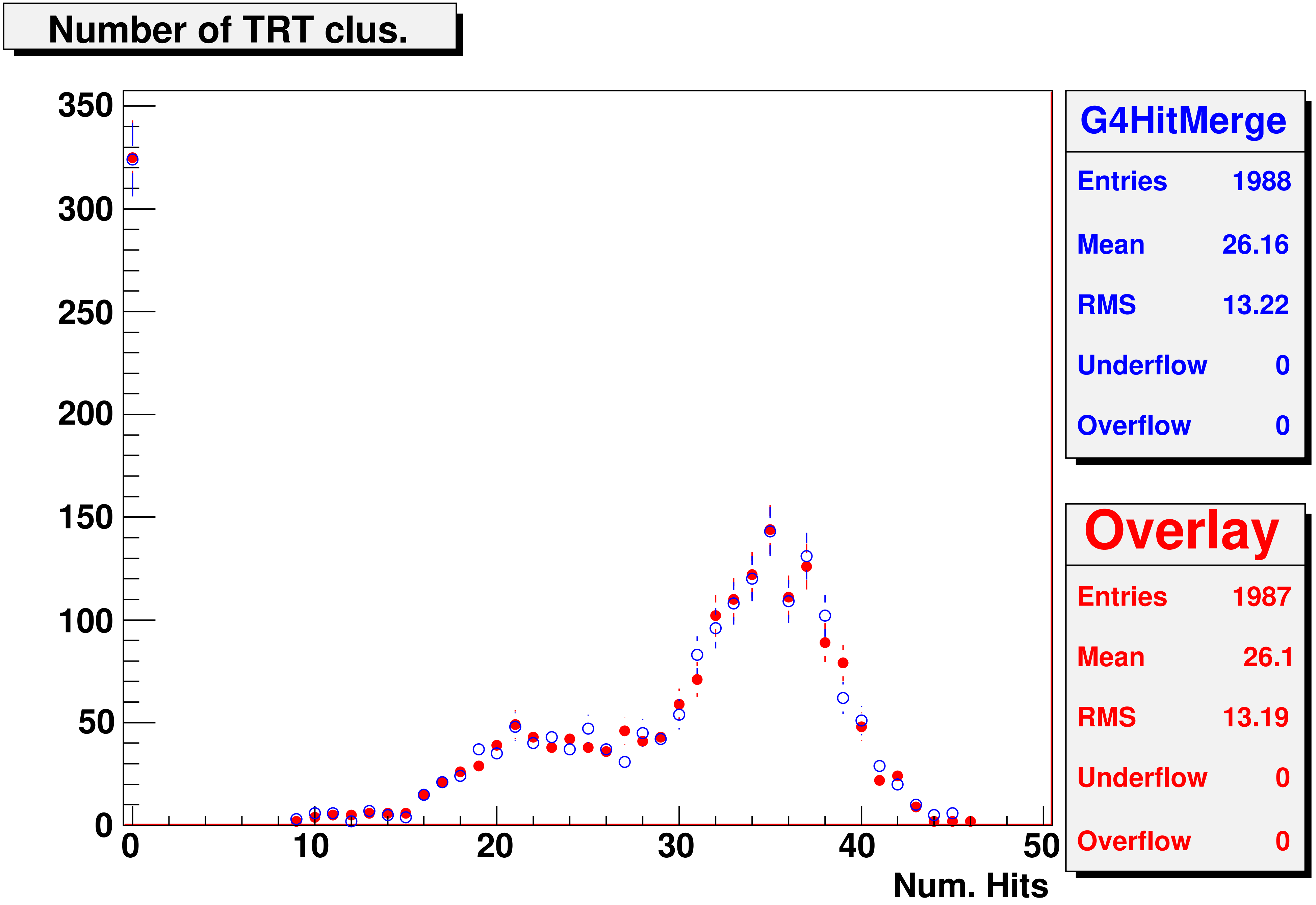


Residual: Pixel Endcap Y, 2+ hits
G4HitMerge
Entries 80
Mean −2.185
RMS 55.37
Underflow 3
Overflow 3
Overlay
Entries 82
Mean −5.035
RMS 57.97
Underflow 3
Overflow 3
0
2
4
6
8
10
12
14
−300
−200
−100
0
100
200
300
y residual(μm)

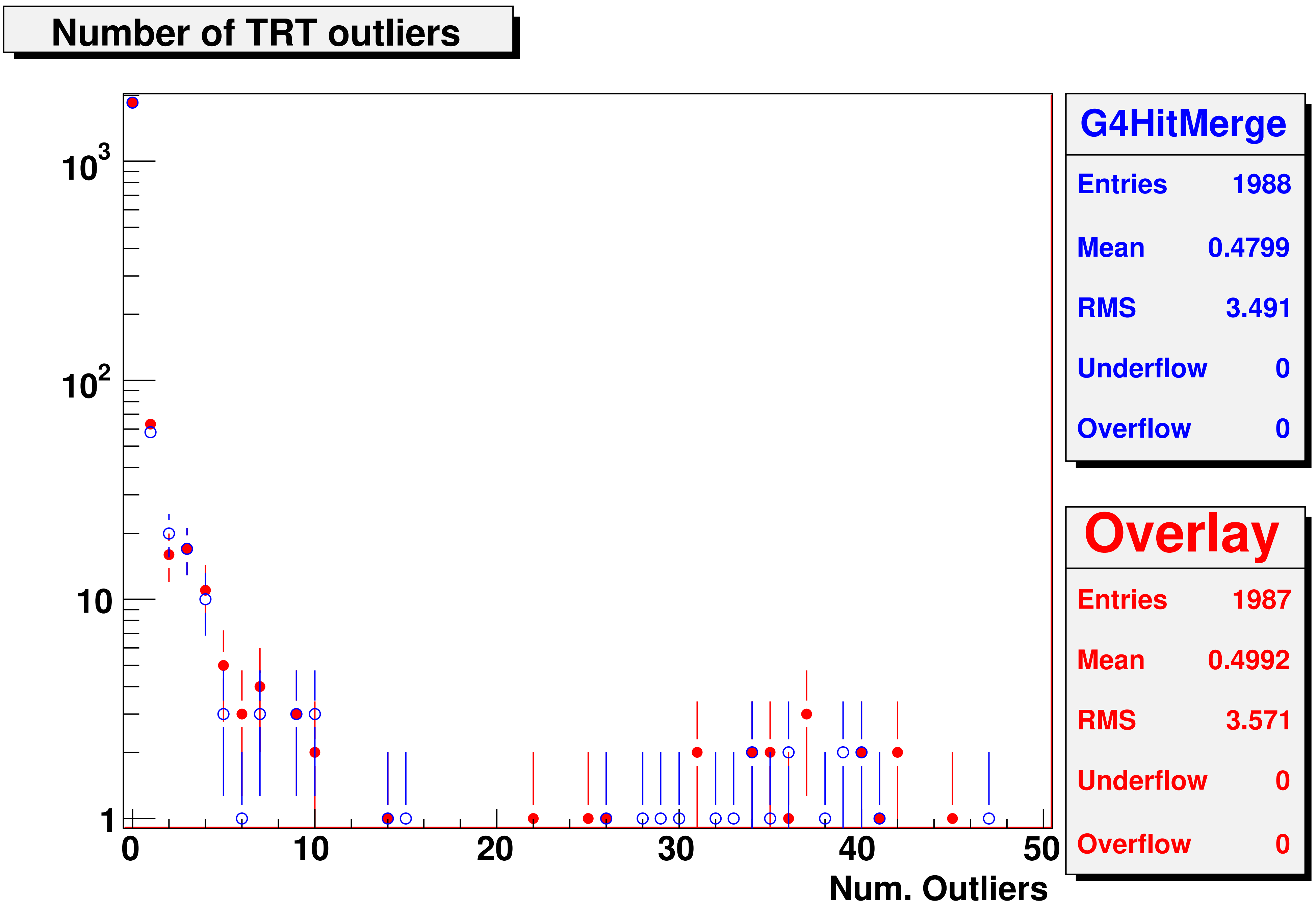

Residual: SCT Barrel X, 2+ hits
240
220
200
180
160
140
120
100
80
60
40
20
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 2483
Mean −0.07048
RMS 21.14
Underflow 87
Overflow 75
Overlay
Entries 2458
Mean 0.07585
RMS 20.89
Underflow 88
Overflow 71

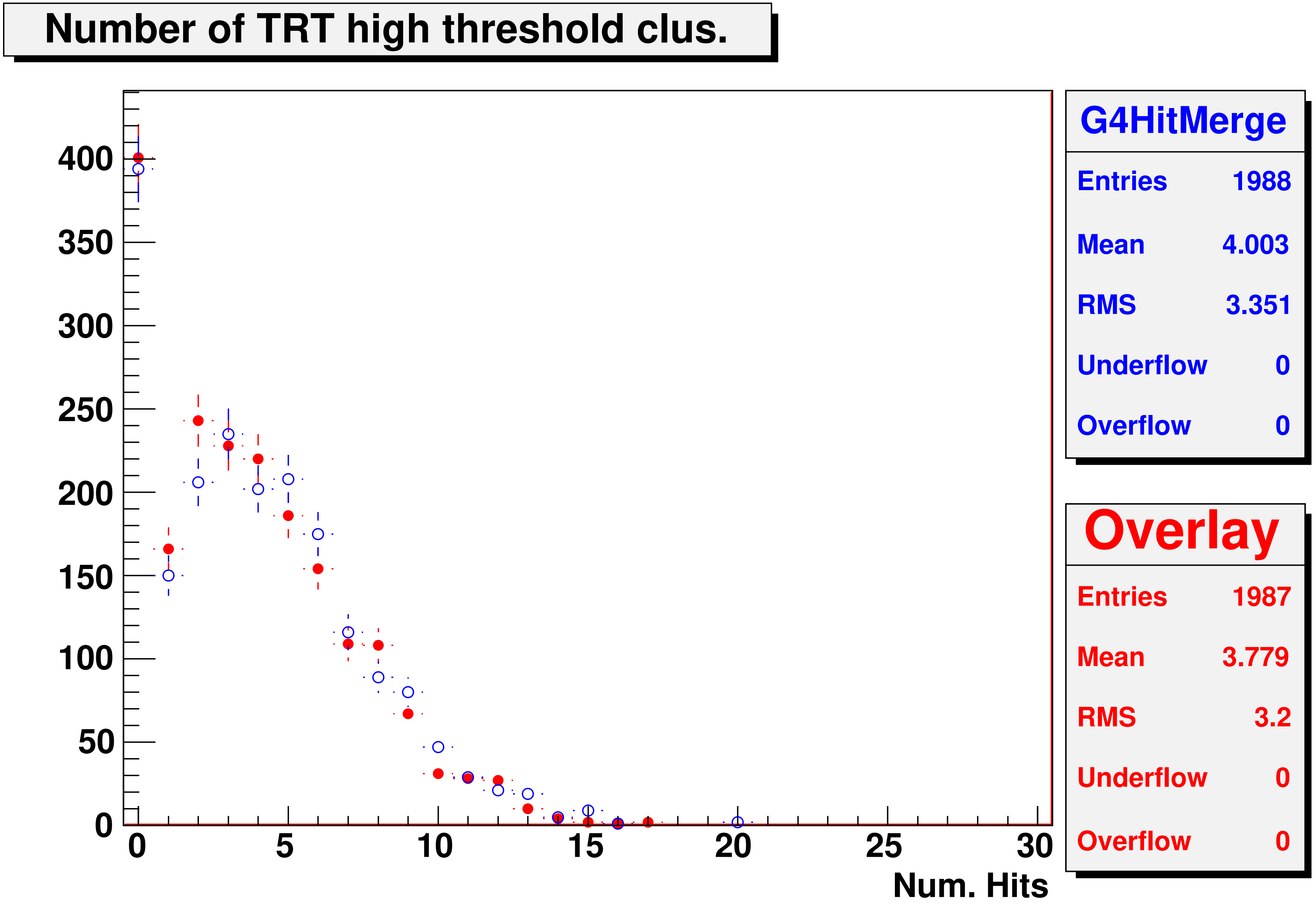


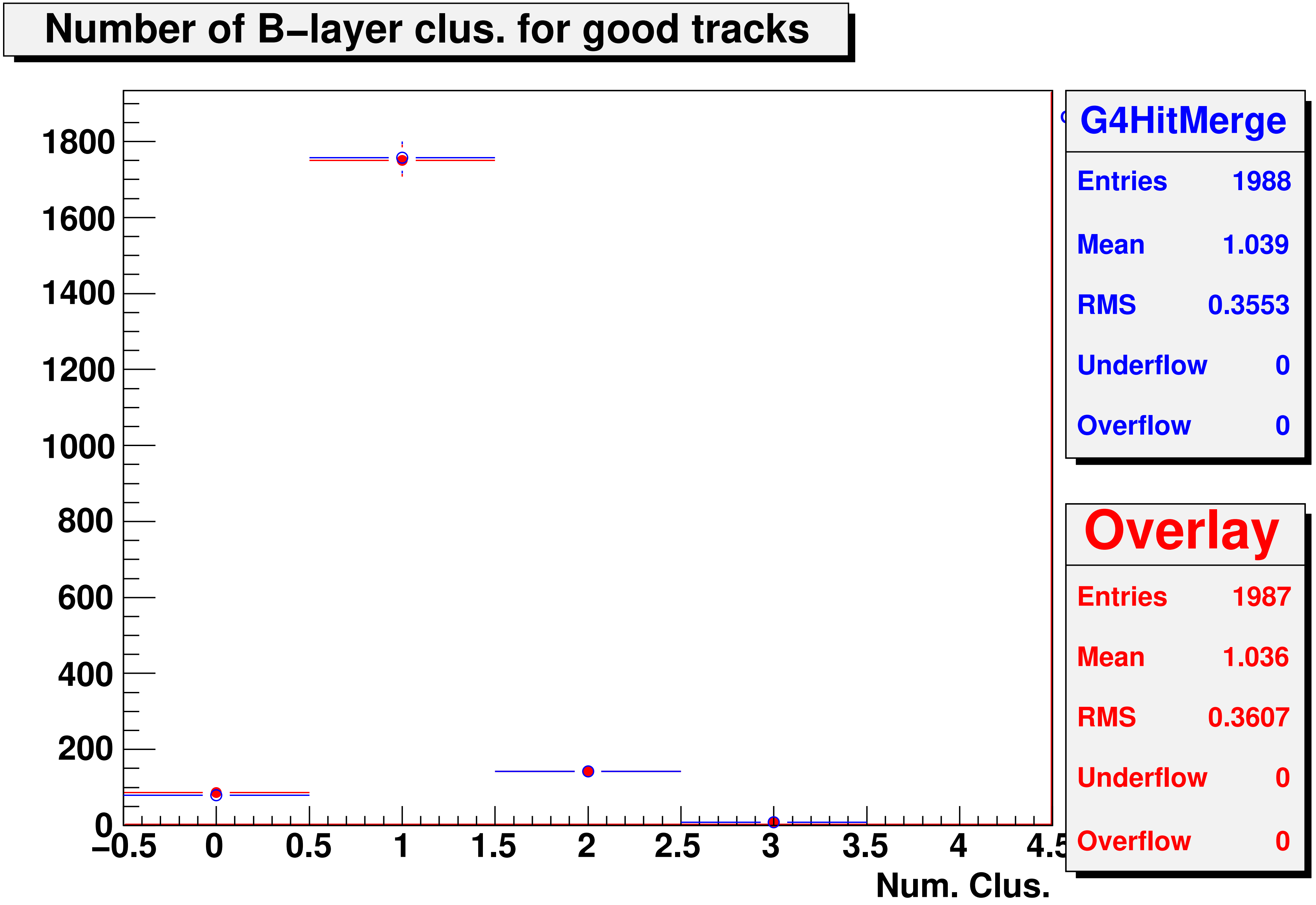
Residual: TRT Barrel X
1200
1000
800
600
400
200
–500
–400
–300
–200
–100
0
100
200
300
400
500
x residual(μm)
G4HitMerge
Entries 22964
Mean 0.5198
RMS 158.9
Underflow 1268
Overflow 1171
Overlay
Entries 22838
Mean –0.3317
RMS 158.3
Underflow 1133
Overflow 1257

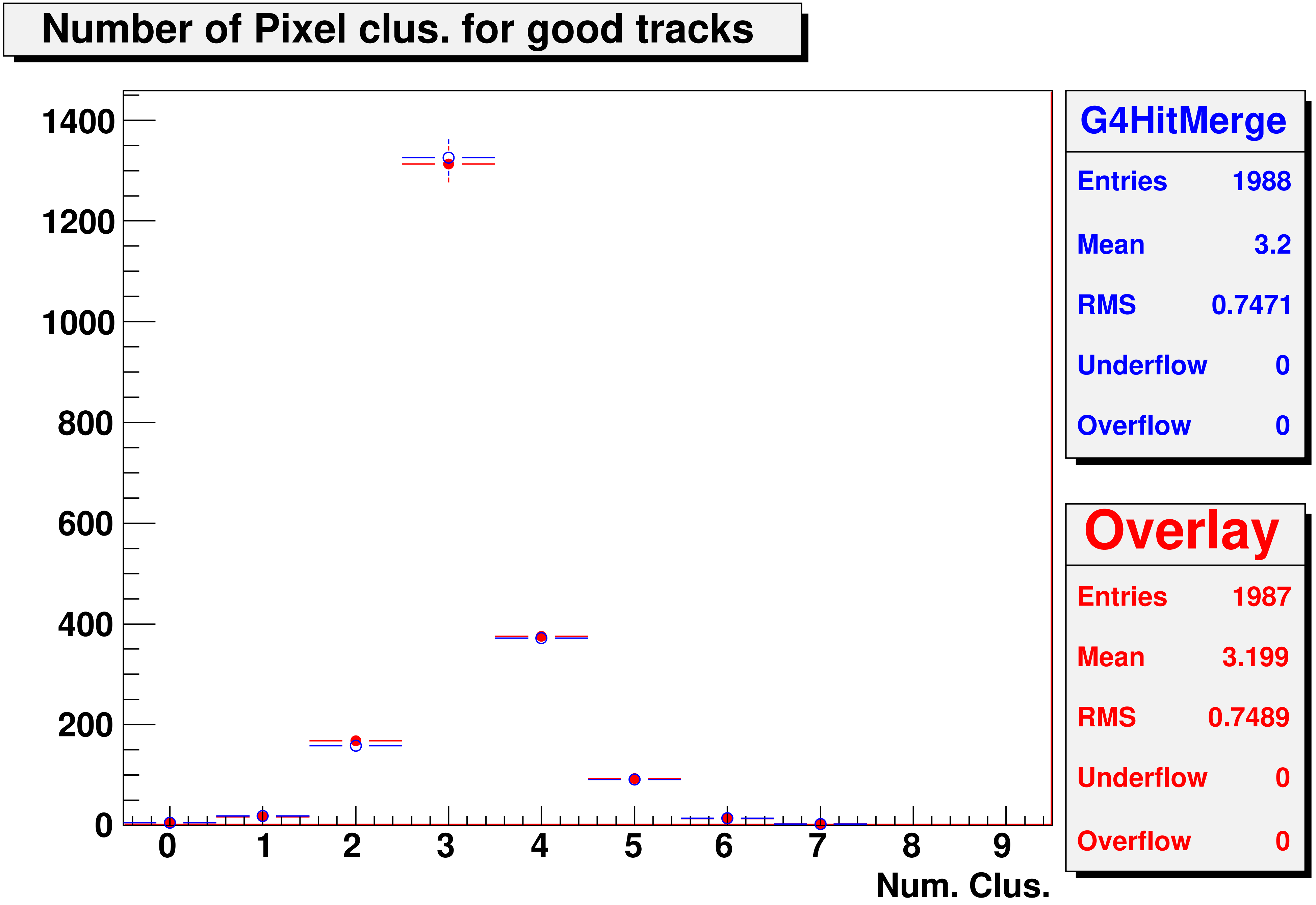


Number of TRT clus.
350
300
250
200
150
100
50
0
0
10
20
30
40
50
Num. Hits
G4HitMerge
Entries 1988
Mean 26.16
RMS 13.22
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 26.1
RMS 13.19
Underflow 0
Overflow 0

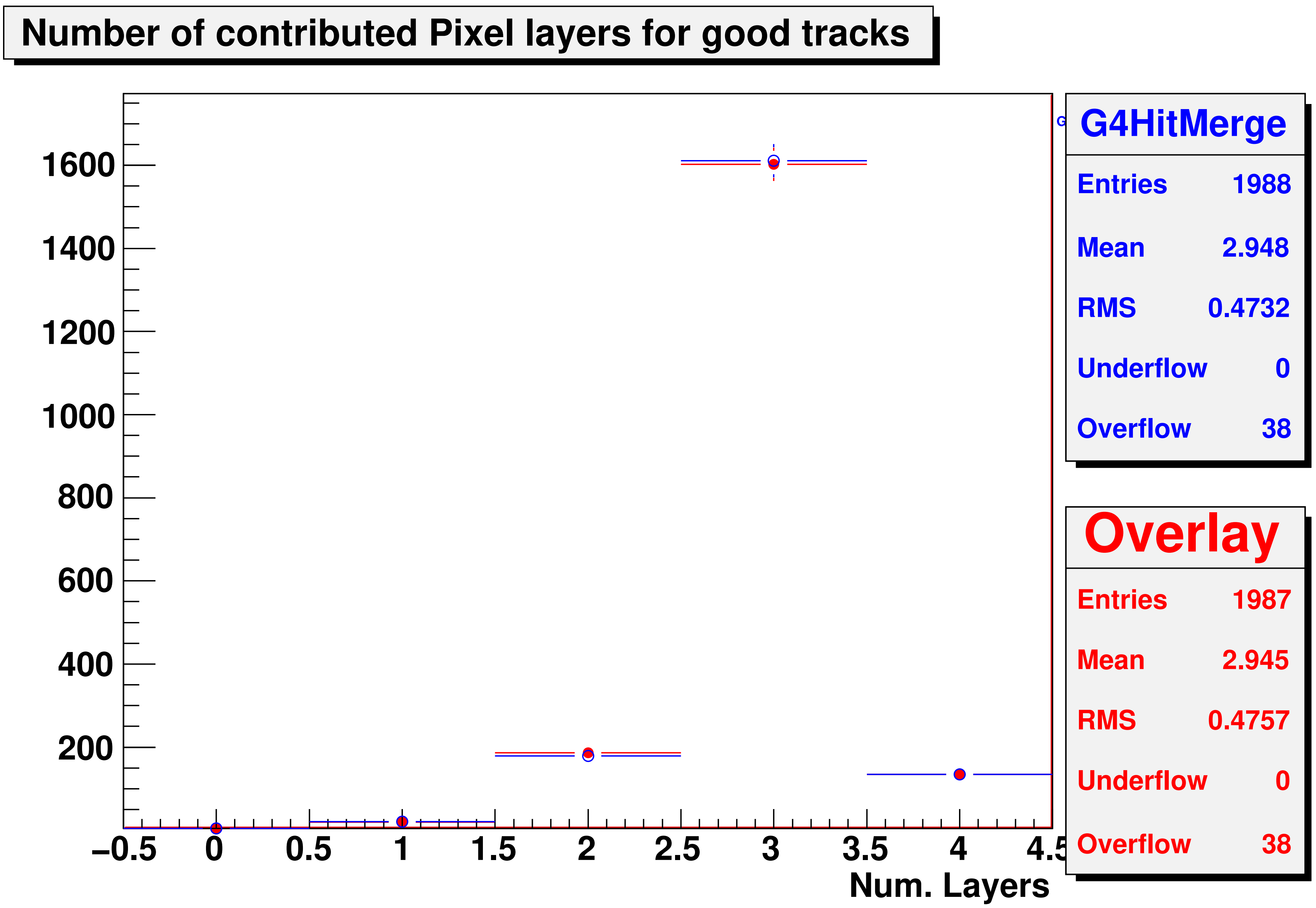

Number of TRT outliers
G4HitMerge
Entries 1988
Mean 0.4799
RMS 3.491
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 0.4992
RMS 3.571
Underflow 0
Overflow 0
10^3
10^2
10
1
0
10
20
30
40
50
Num. Outliers


Number of TRT high threshold clus.
G4HitMerge
Entries 1988
Mean 4.003
RMS 3.351
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 3.779
RMS 3.2
Underflow 0
Overflow 0
Num. Hits
0
50
100
150
200
250
300
350
400
0
5
10
15
20
25
30

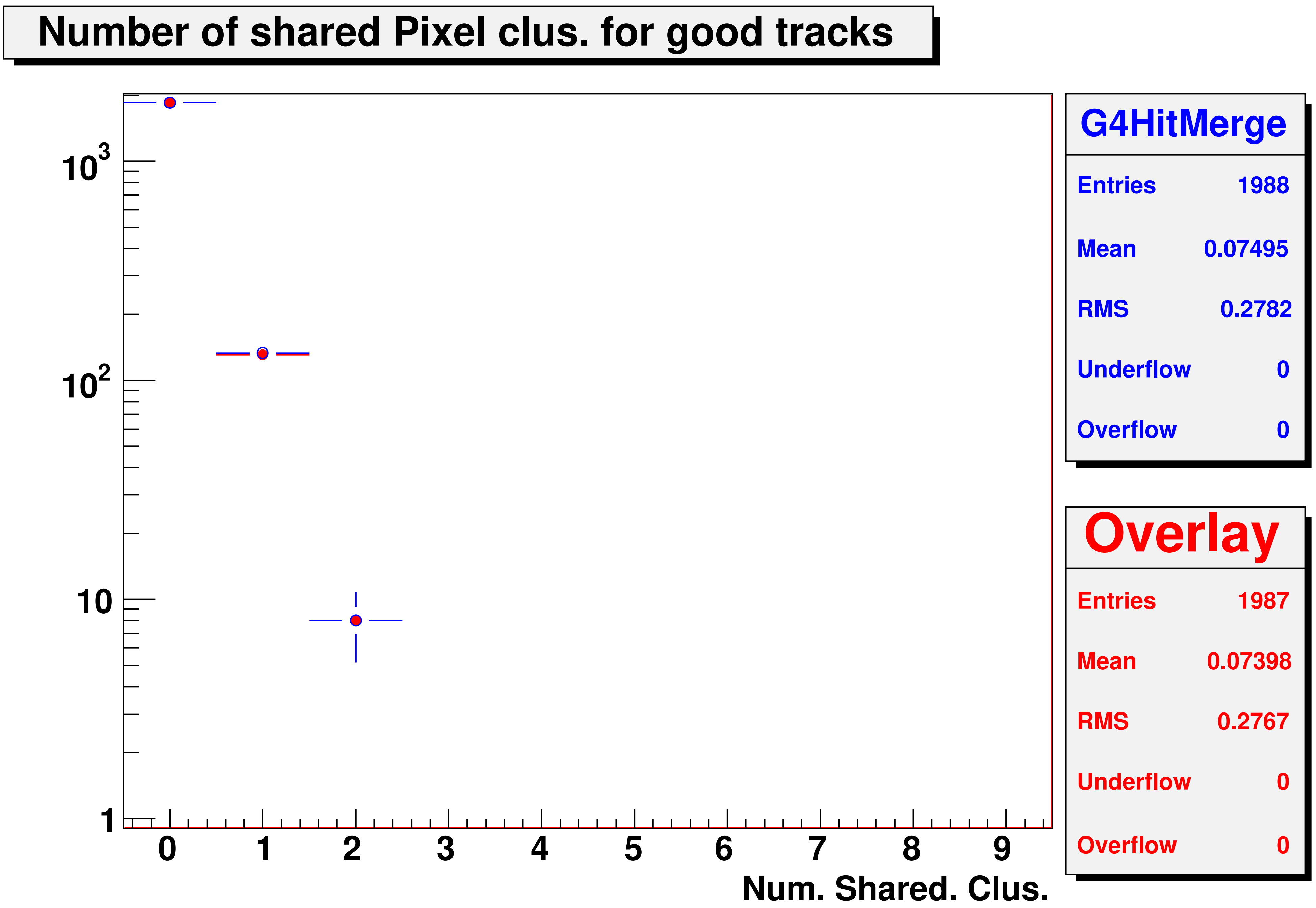

Number of B−layer clus. for good tracks
1800
1600
1400
1200
1000
800
600
400
200
0
−0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Clus.
G4HitMerge
Entries 1988
Mean 1.039
RMS 0.3553
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 1.036
RMS 0.3607
Underflow 0
Overflow 0



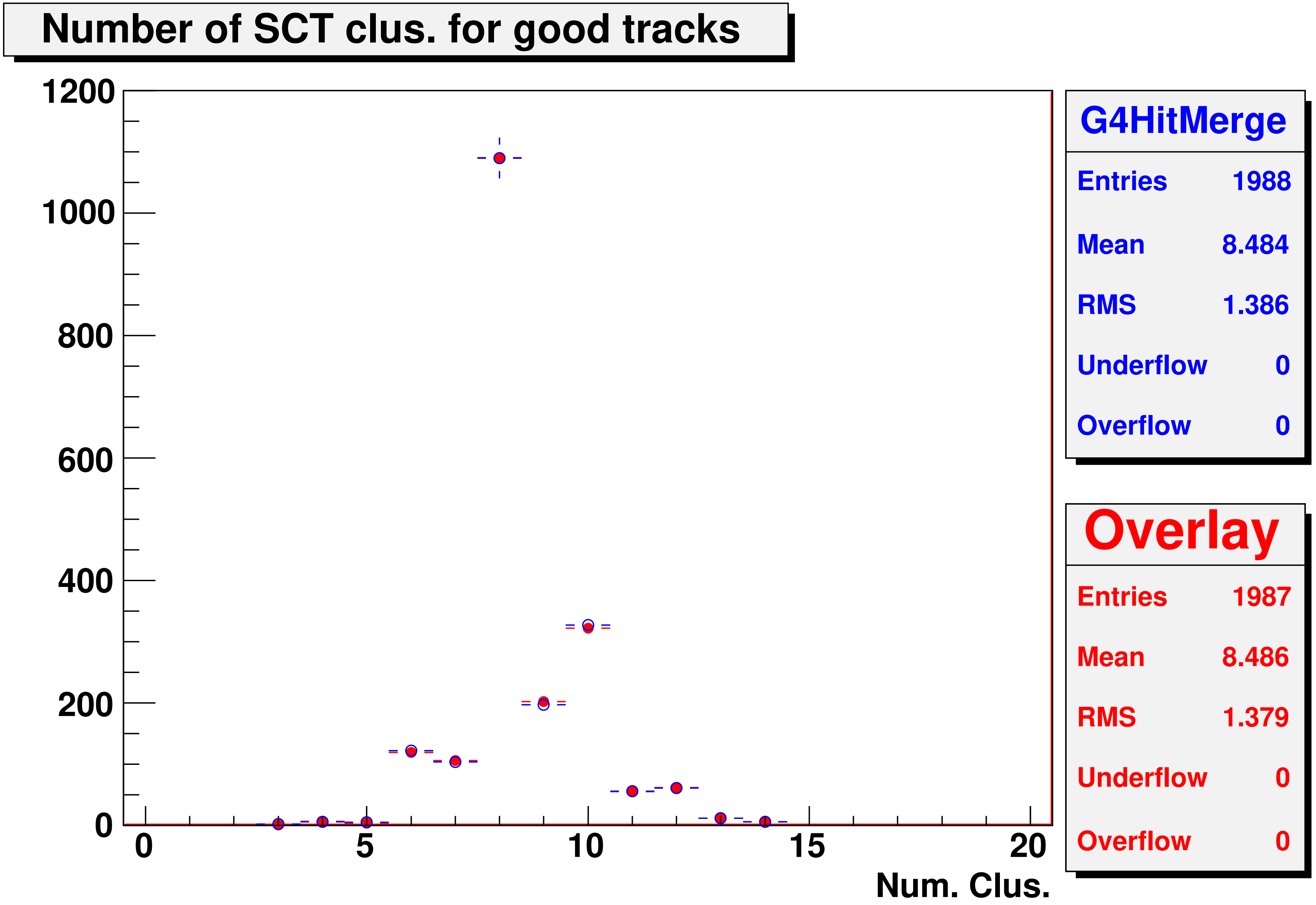
Number of Pixel clus. for good tracks
1400
1200
1000
800
600
400
200
0
0
1
2
3
4
5
6
7
8
9
Num. Clus.
G4HitMerge
Entries 1988
Mean 3.2
RMS 0.7471
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 3.199
RMS 0.7489
Underflow 0
Overflow 0



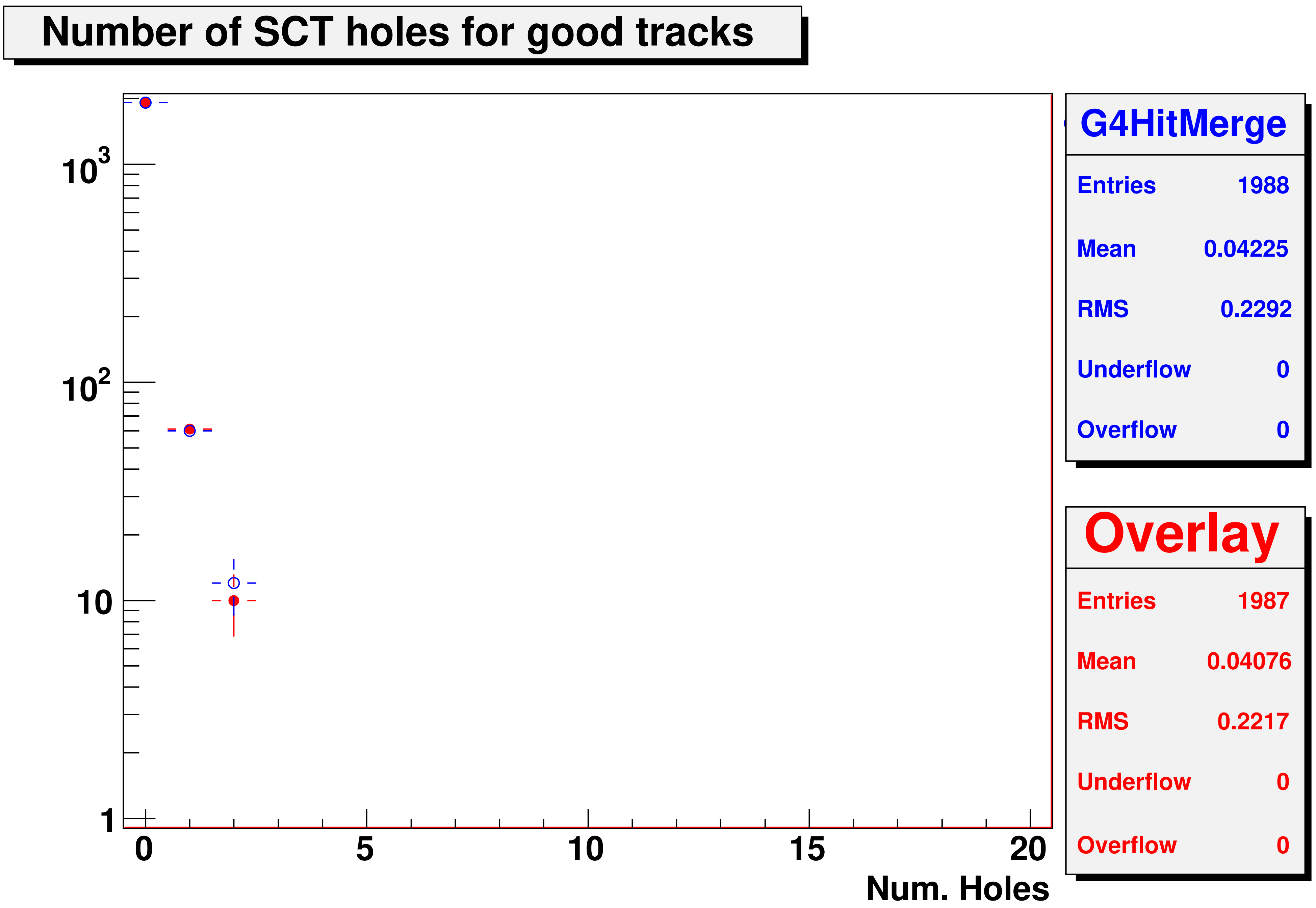
Number of contributed Pixel layers for good tracks
1600
1400
1200
1000
800
600
400
200
–0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Layers
G4HitMerge
Entries 1988
Mean 2.948
RMS 0.4732
Underflow 0
Overflow 38
Overlay
Entries 1987
Mean 2.945
RMS 0.4757
Underflow 0
Overflow 38



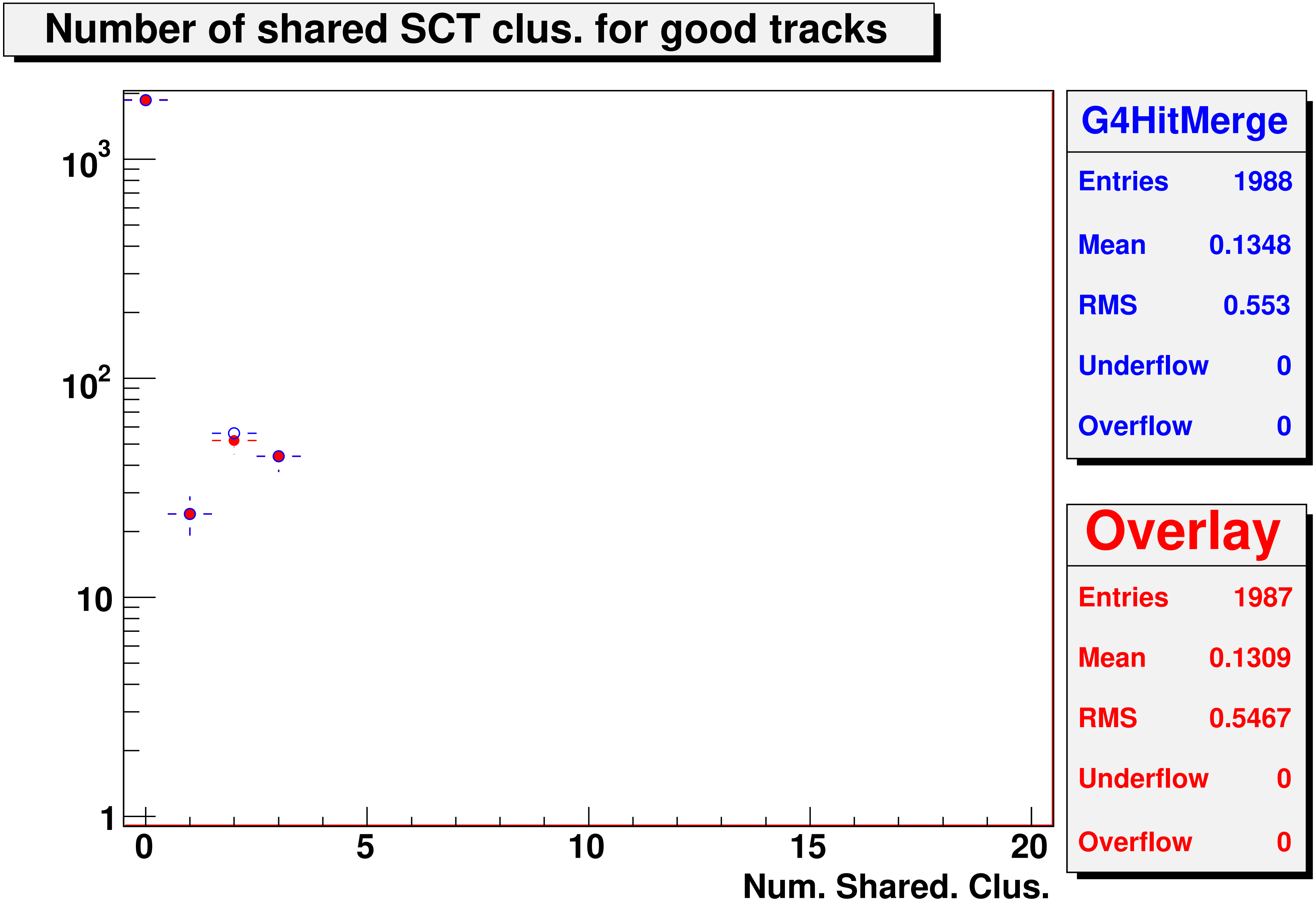
Number of shared Pixel clus. for good tracks
G4HitMerge
Entries 1988
Mean 0.07495
RMS 0.2782
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 0.07398
RMS 0.2767
Underflow 0
Overflow 0
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8
9
Num. Shared. Clus.



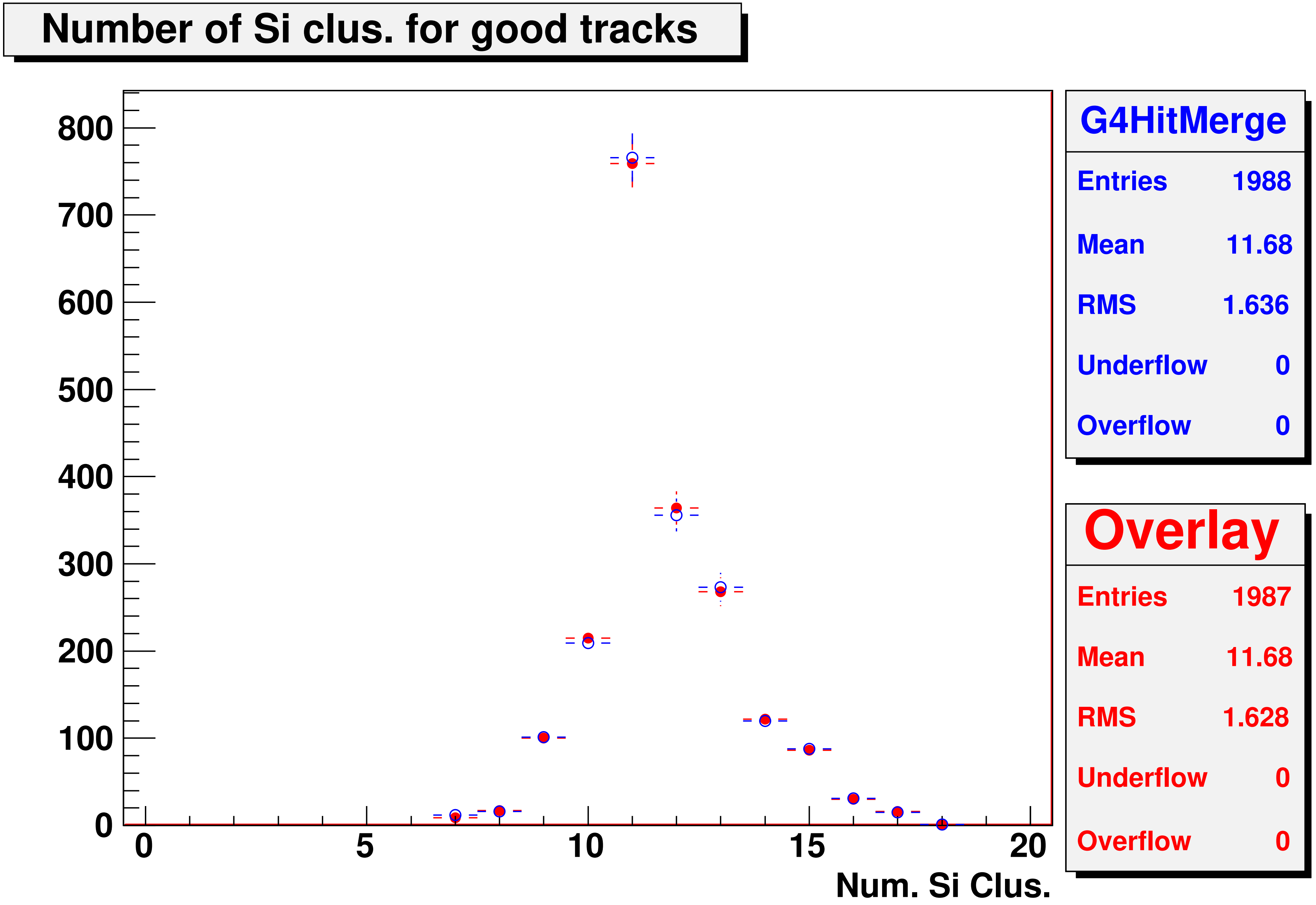
Number of SCT clus. for good tracks
1200
1000
800
600
400
200
0
0
5
10
15
20
Num. Clus.
G4HitMerge
Entries 1988
Mean 8.484
RMS 1.386
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 8.486
RMS 1.379
Underflow 0
Overflow 0



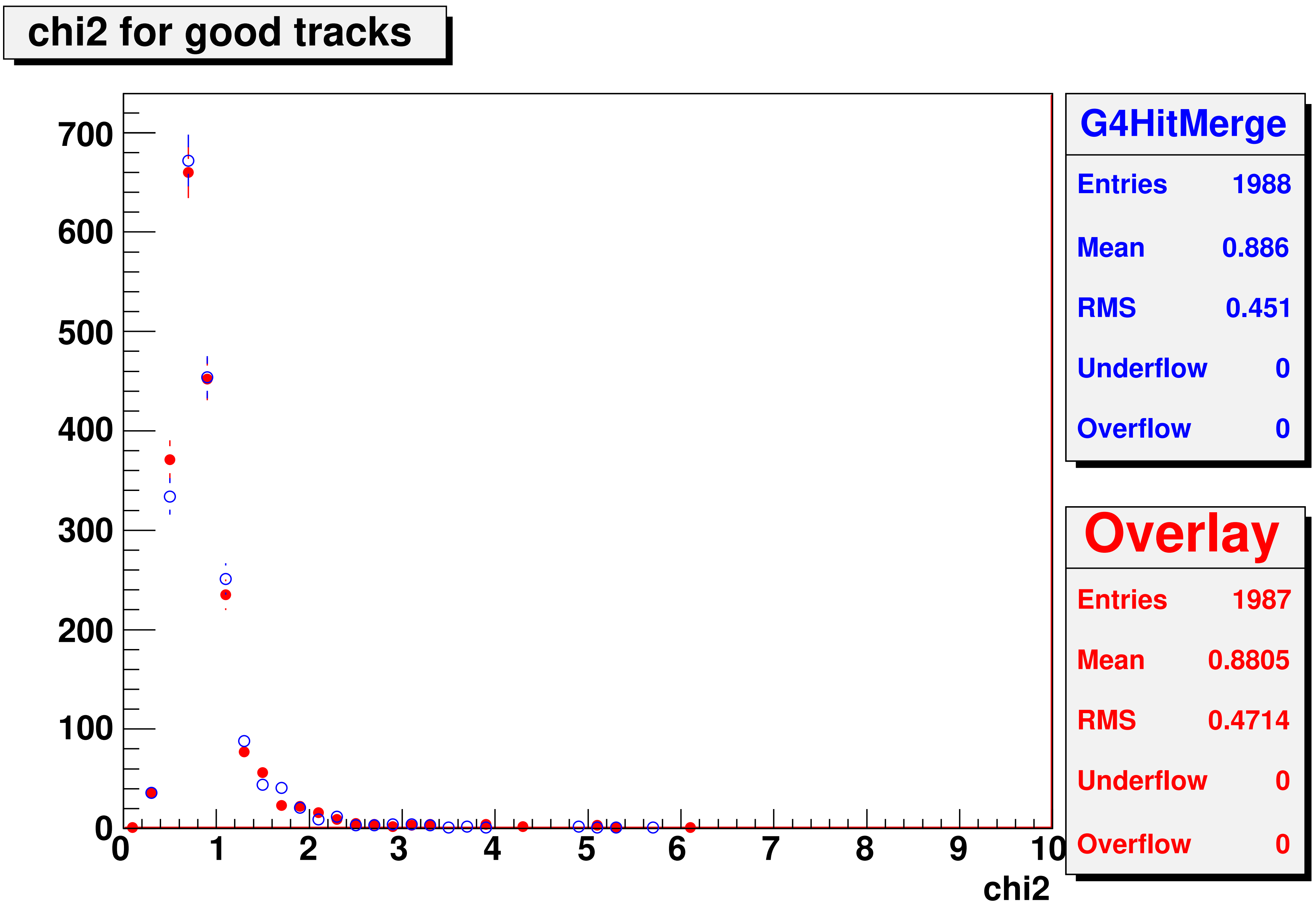
Number of SCT holes for good tracks
G4HitMerge
Entries 1988
Mean 0.04225
RMS 0.2292
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 0.04076
RMS 0.2217
Underflow 0
Overflow 0
10^3
10^2
10
1
0
5
10
15
20
Num. Holes



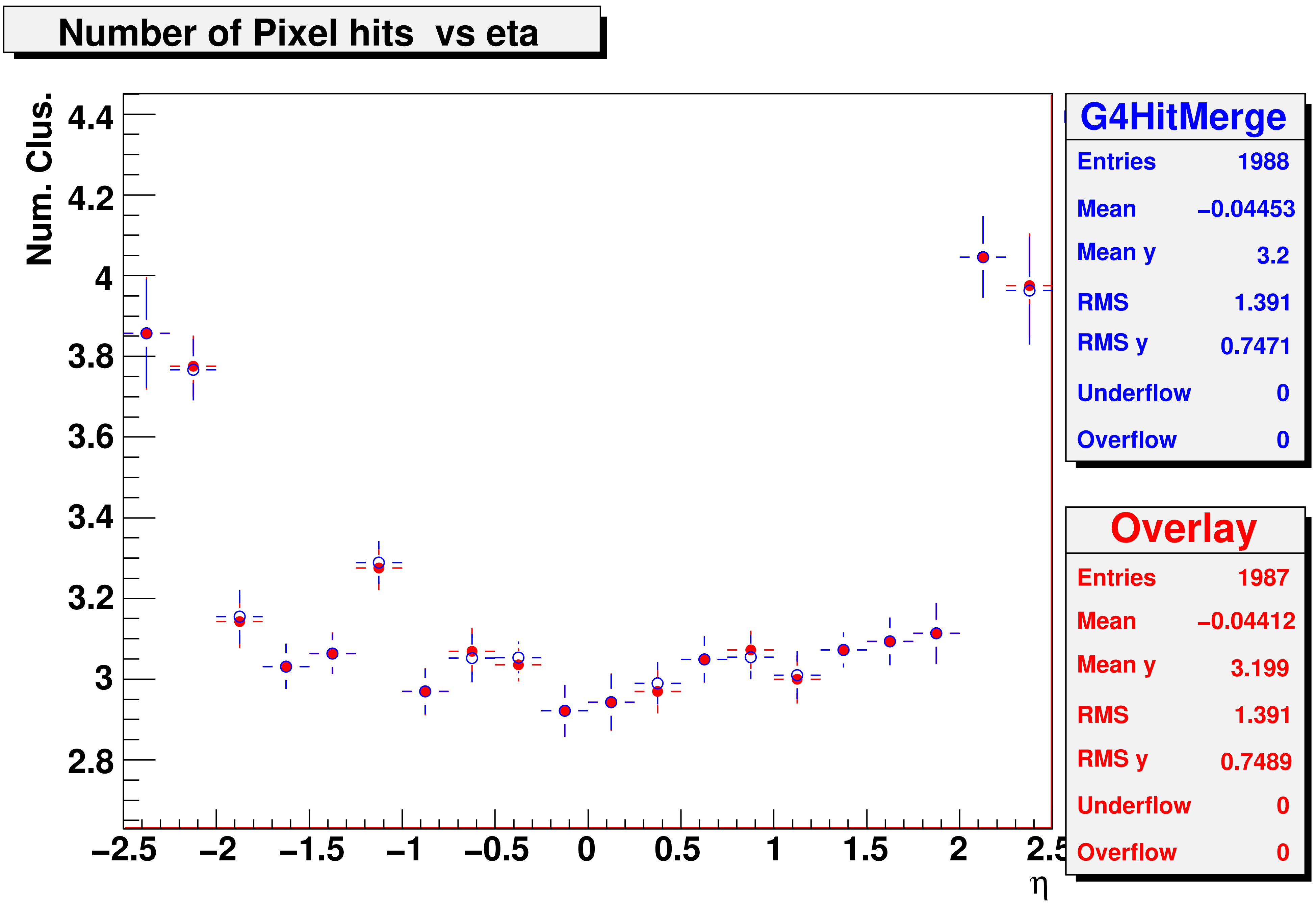
Number of shared SCT clus. for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Shared. Clus.
G4HitMerge
Entries 1988
Mean 0.1348
RMS 0.553
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 0.1309
RMS 0.5467
Underflow 0
Overflow 0



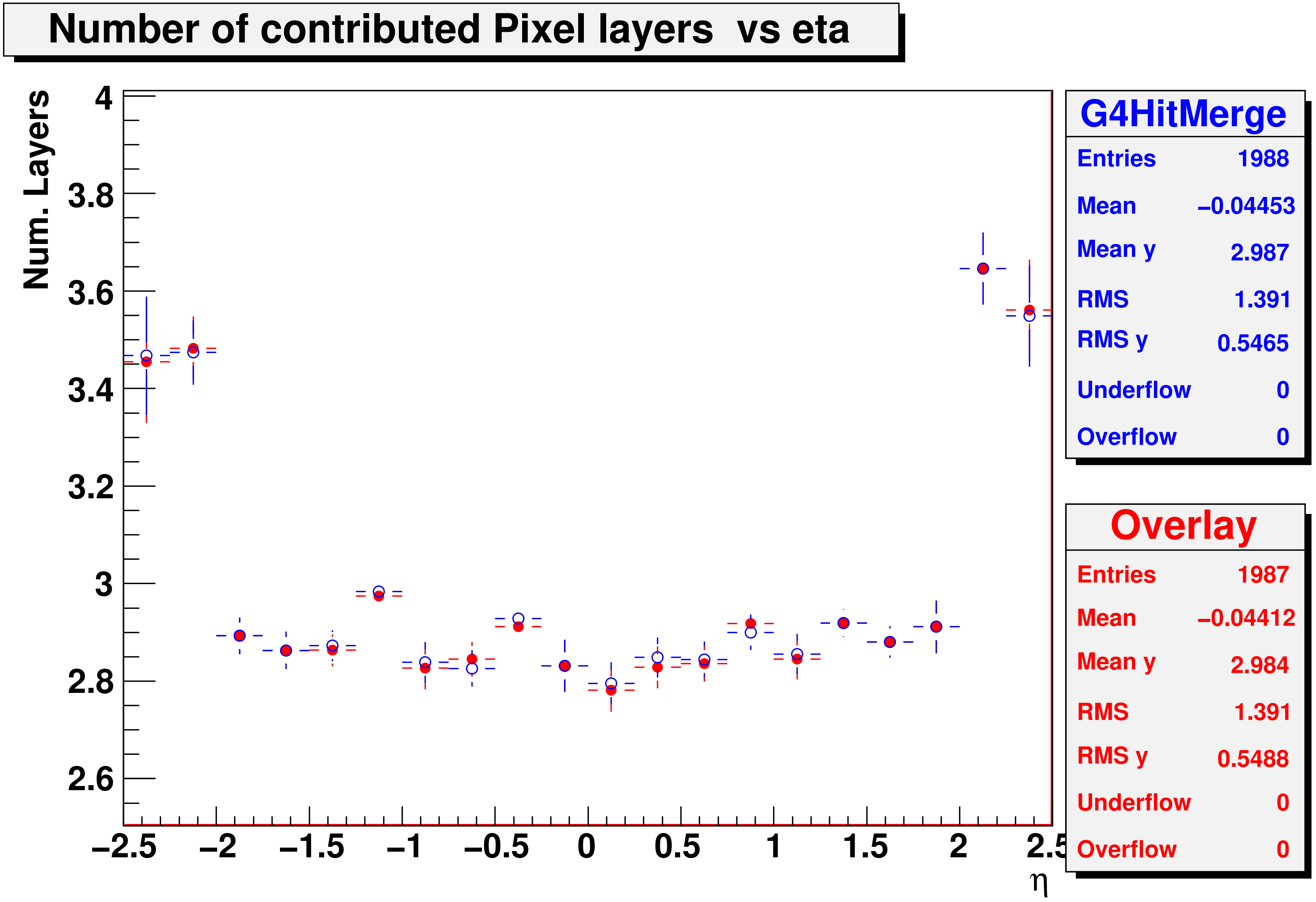
Number of Si clus. for good tracks
800
700
600
500
400
300
200
100
0
0
5
10
15
20
Num. Si Clus.
G4HitMerge
Entries 1988
Mean 11.68
RMS 1.636
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 11.68
RMS 1.628
Underflow 0
Overflow 0



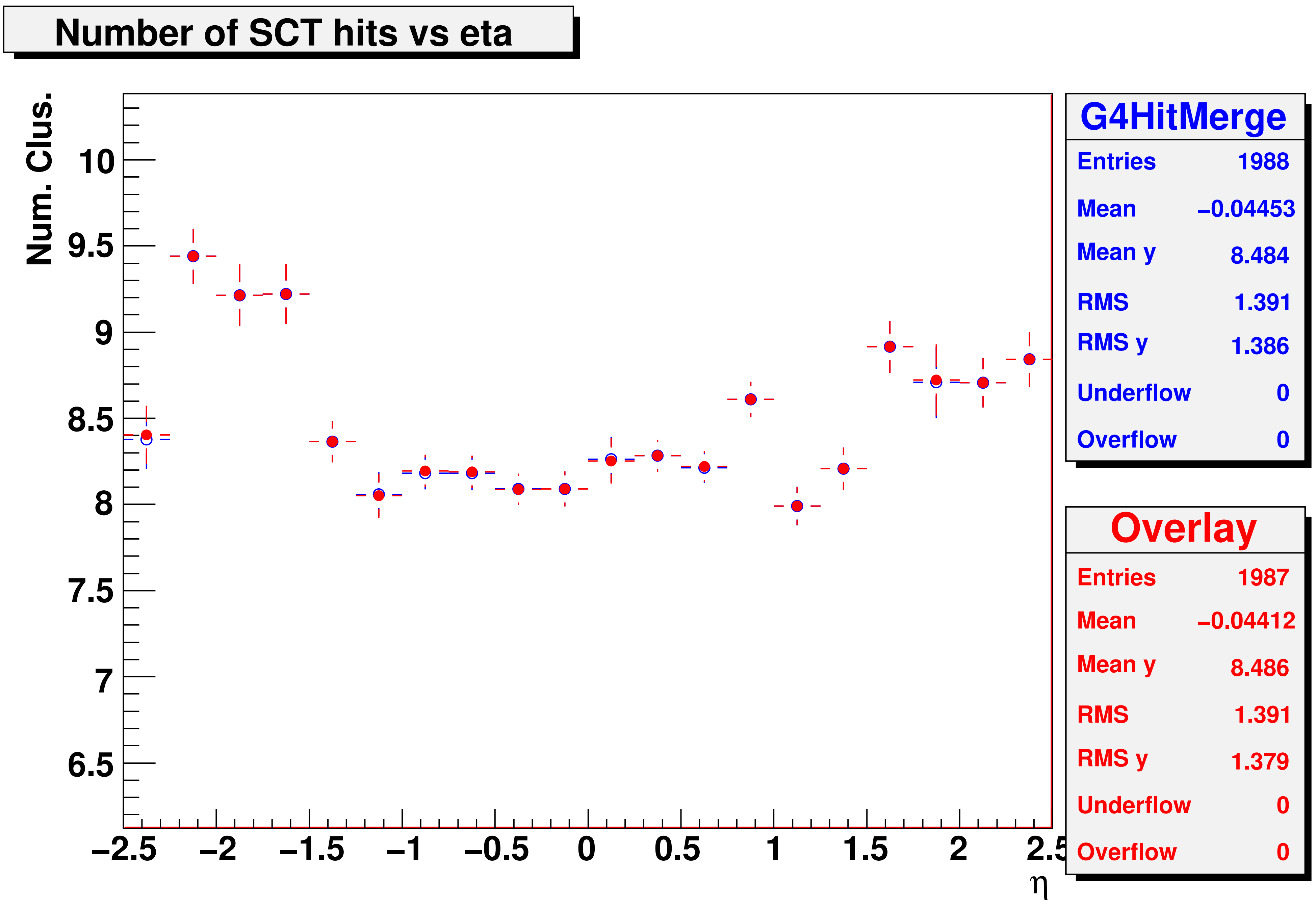
chi2 for good tracks
G4HitMerge
Entries 1988
Mean 0.886
RMS 0.451
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean 0.8805
RMS 0.4714
Underflow 0
Overflow 0
chi2

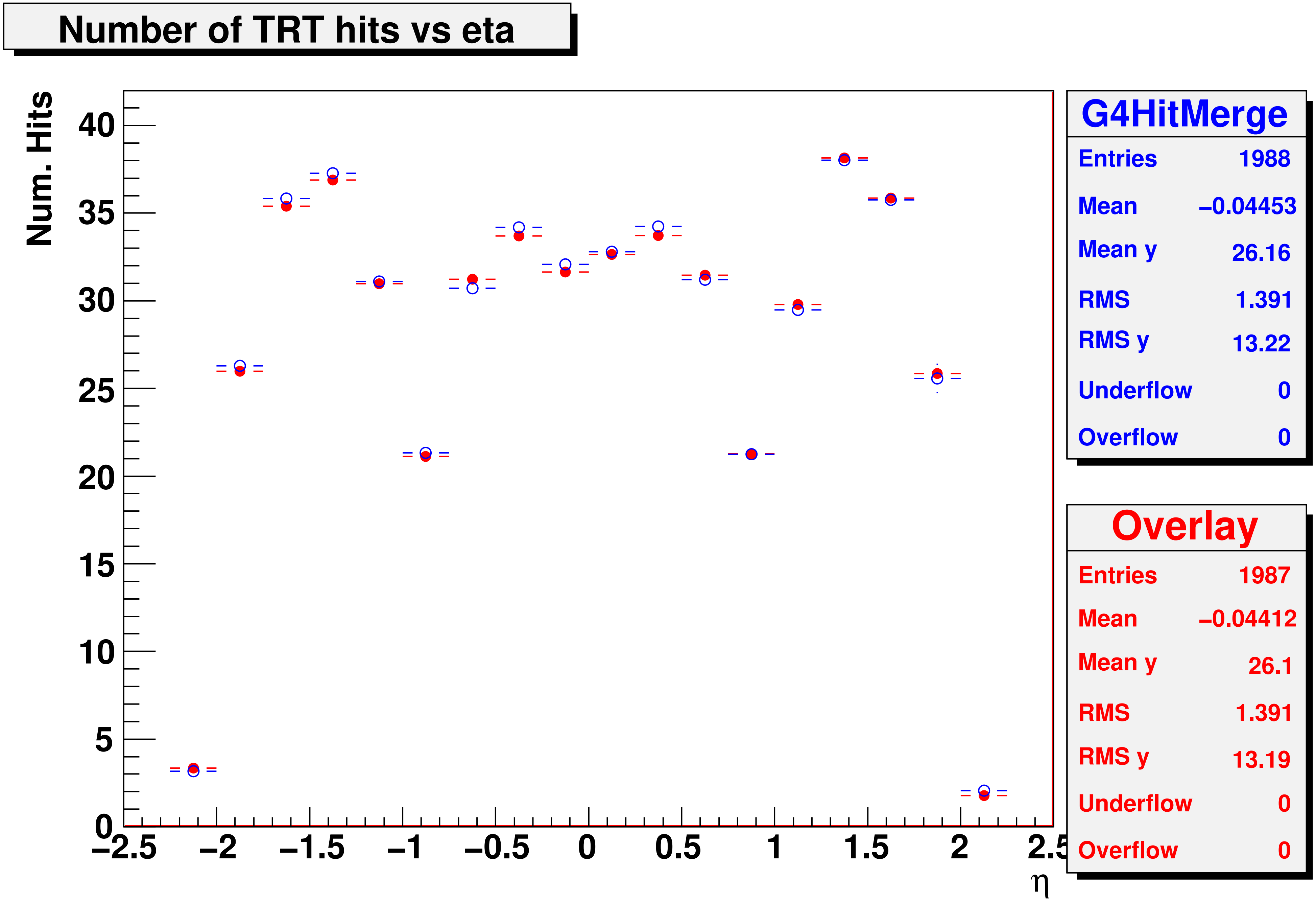


Number of Pixel hits vs eta
Num. Clus.
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
–2.5
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1988
Mean –0.04453
Mean y 3.2
RMS 1.391
RMS y 0.7471
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean –0.04412
Mean y 3.199
RMS 1.391
RMS y 0.7489
Underflow 0
Overflow 0

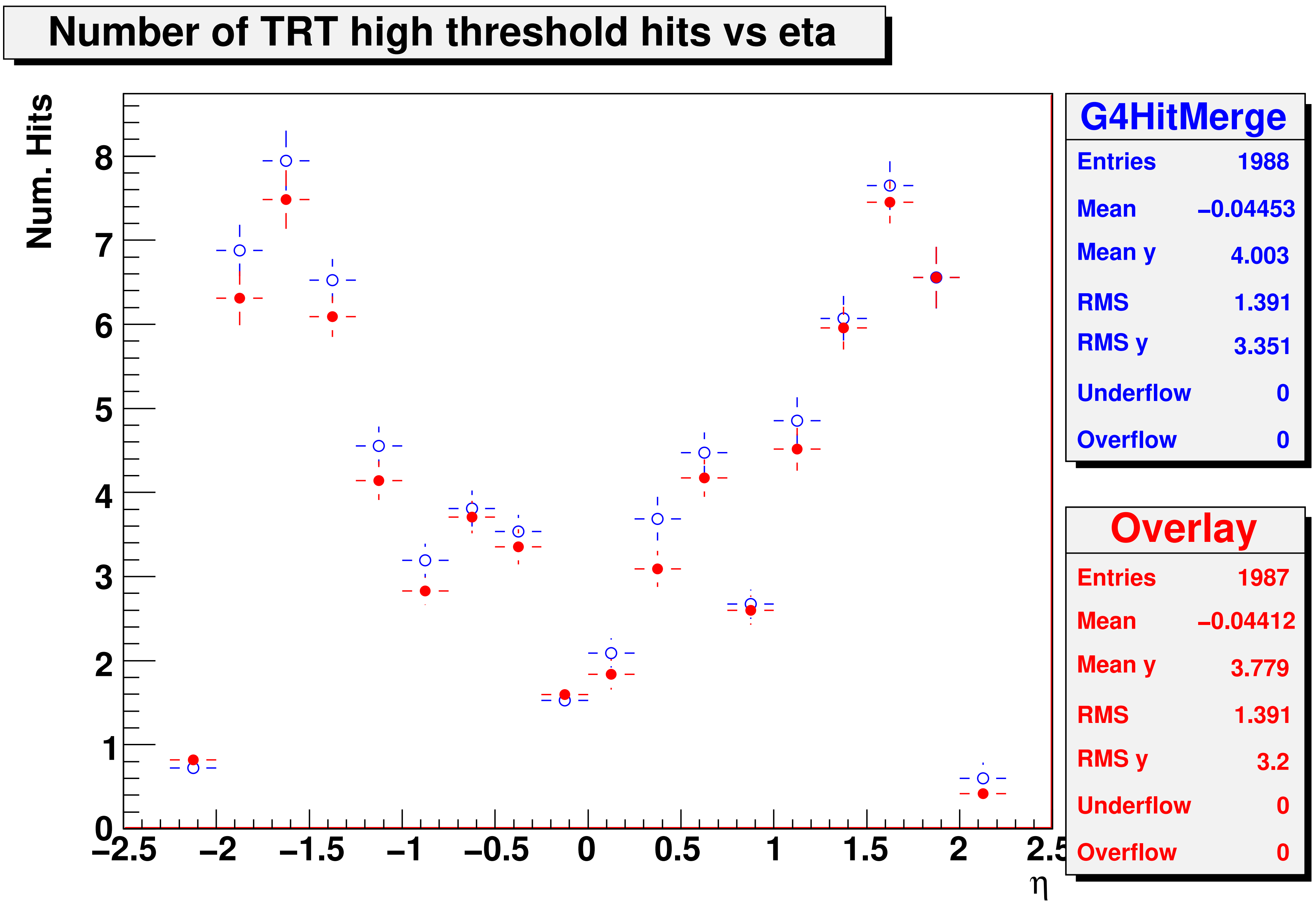


Number of contributed Pixel layers vs eta
Num. Layers
4
3.8
3.6
3.4
3.2
3
2.8
2.6
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1988
Mean −0.04453
Mean y 2.987
RMS 1.391
RMS y 0.5465
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean −0.04412
Mean y 2.984
RMS 1.391
RMS y 0.5488
Underflow 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 1988
Mean -0.04453
Mean y 8.484
RMS 1.391
RMS y 1.386
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean -0.04412
Mean y 8.486
RMS 1.391
RMS y 1.379
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 1988
Mean −0.04453
Mean y 26.16
RMS 1.391
RMS y 13.22
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean −0.04412
Mean y 26.1
RMS 1.391
RMS y 13.19
Underflow 0
Overflow 0


Number of TRT high threshold hits vs eta
Num. Hits
η
G4HitMerge
Entries 1988
Mean −0.04453
Mean y 4.003
RMS 1.391
RMS y 3.351
Underflow 0
Overflow 0
Overlay
Entries 1987
Mean −0.04412
Mean y 3.779
RMS 1.391
RMS y 3.2
Underflow 0
Overflow 0