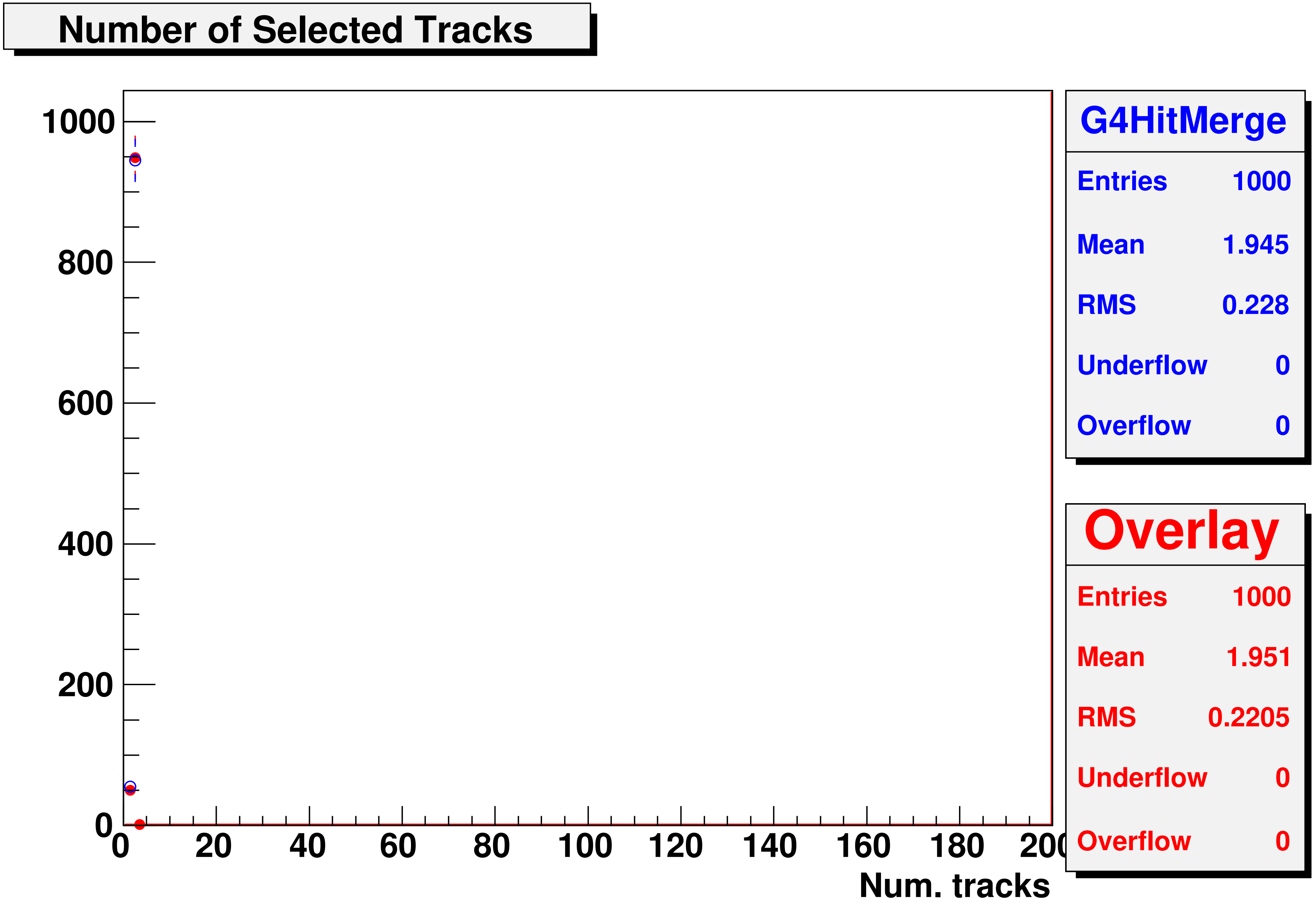
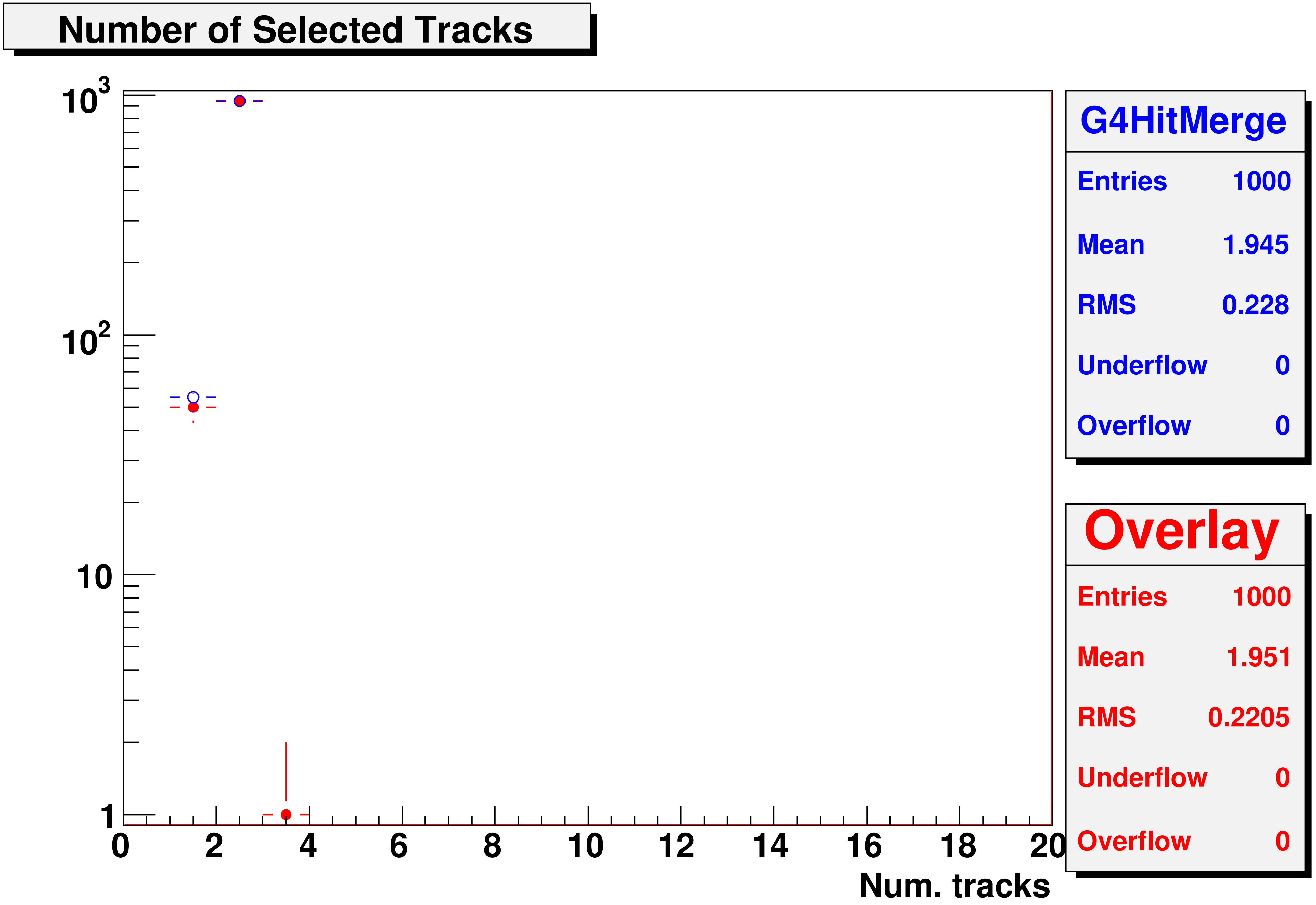
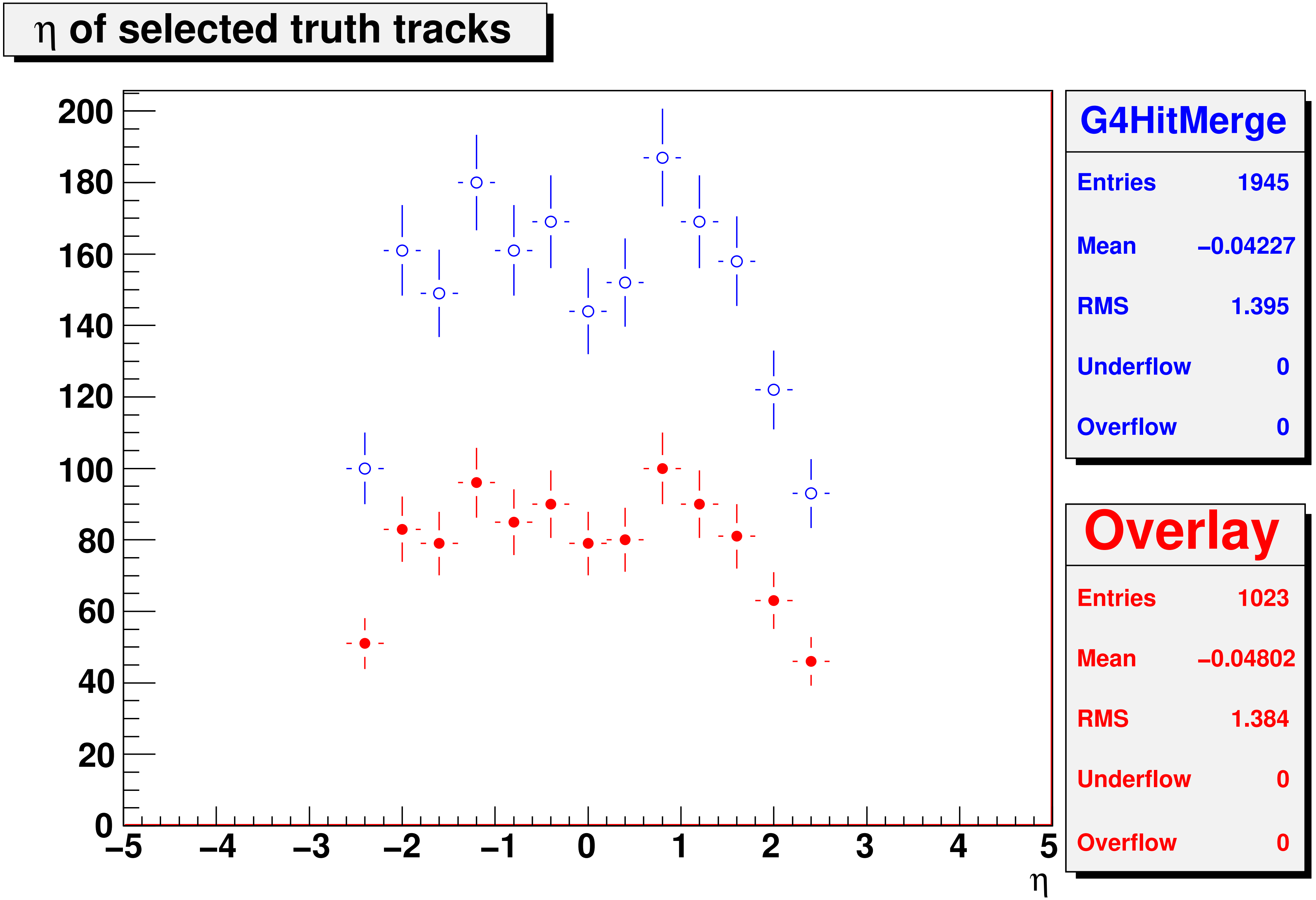
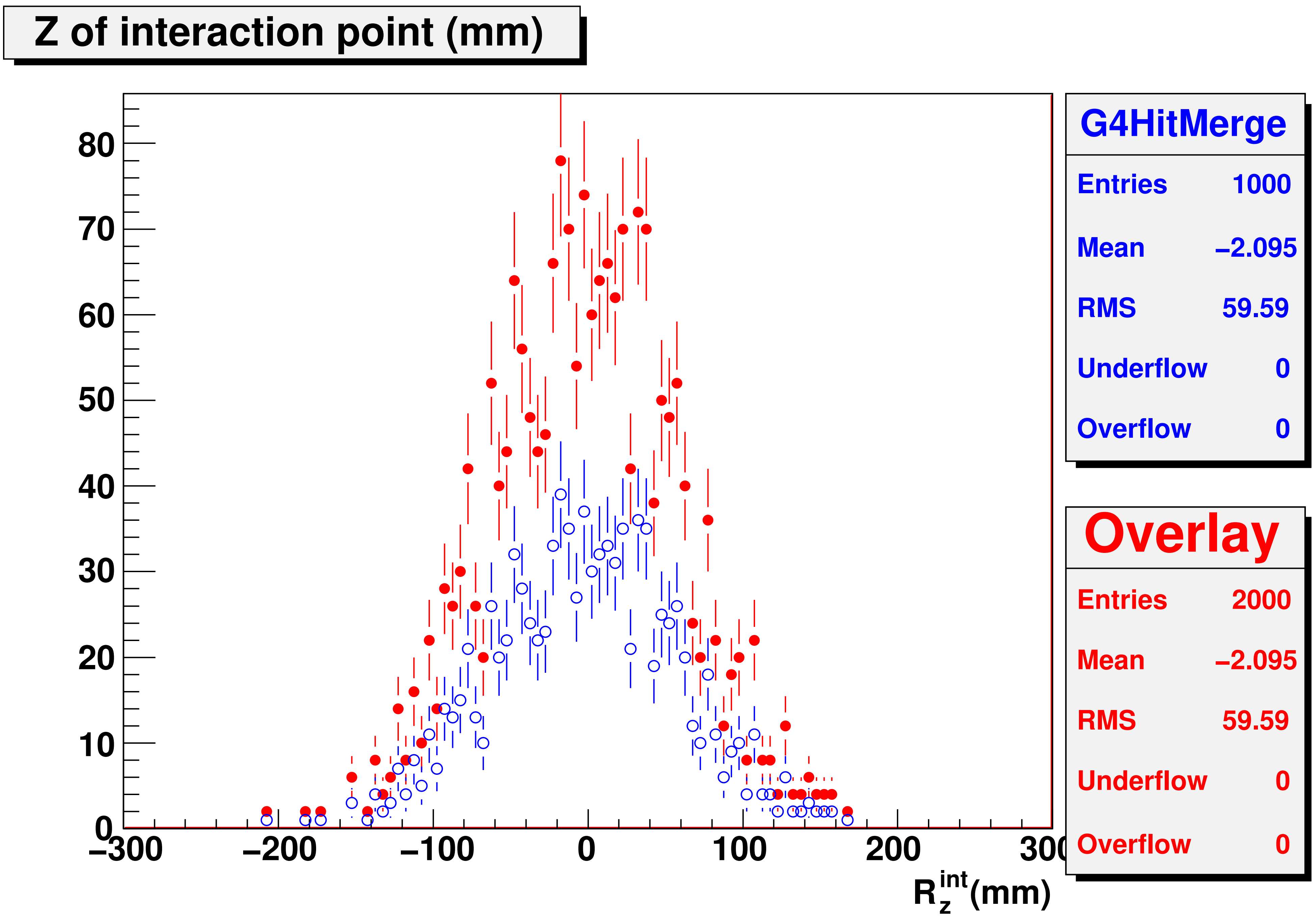

Number of Selected Tracks
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
180
200
Num. tracks
G4HitMerge
Entries 1000
Mean 1.945
RMS 0.228
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.951
RMS 0.2205
Underflow 0
Overflow 0

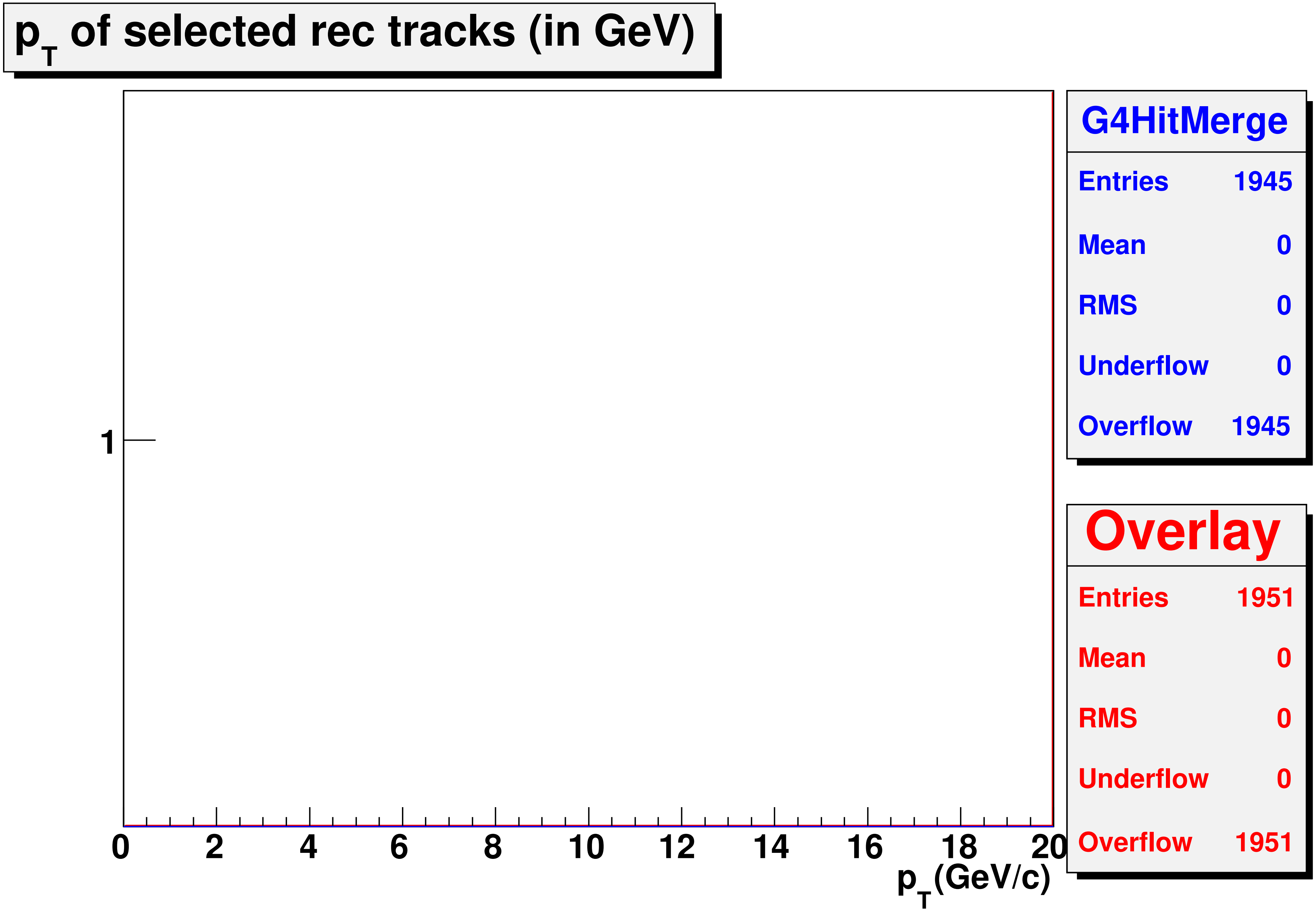


Number of Selected Tracks
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
18
20
Num. tracks
G4HitMerge
Entries 1000
Mean 1.945
RMS 0.228
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.951
RMS 0.2205
Underflow 0
Overflow 0

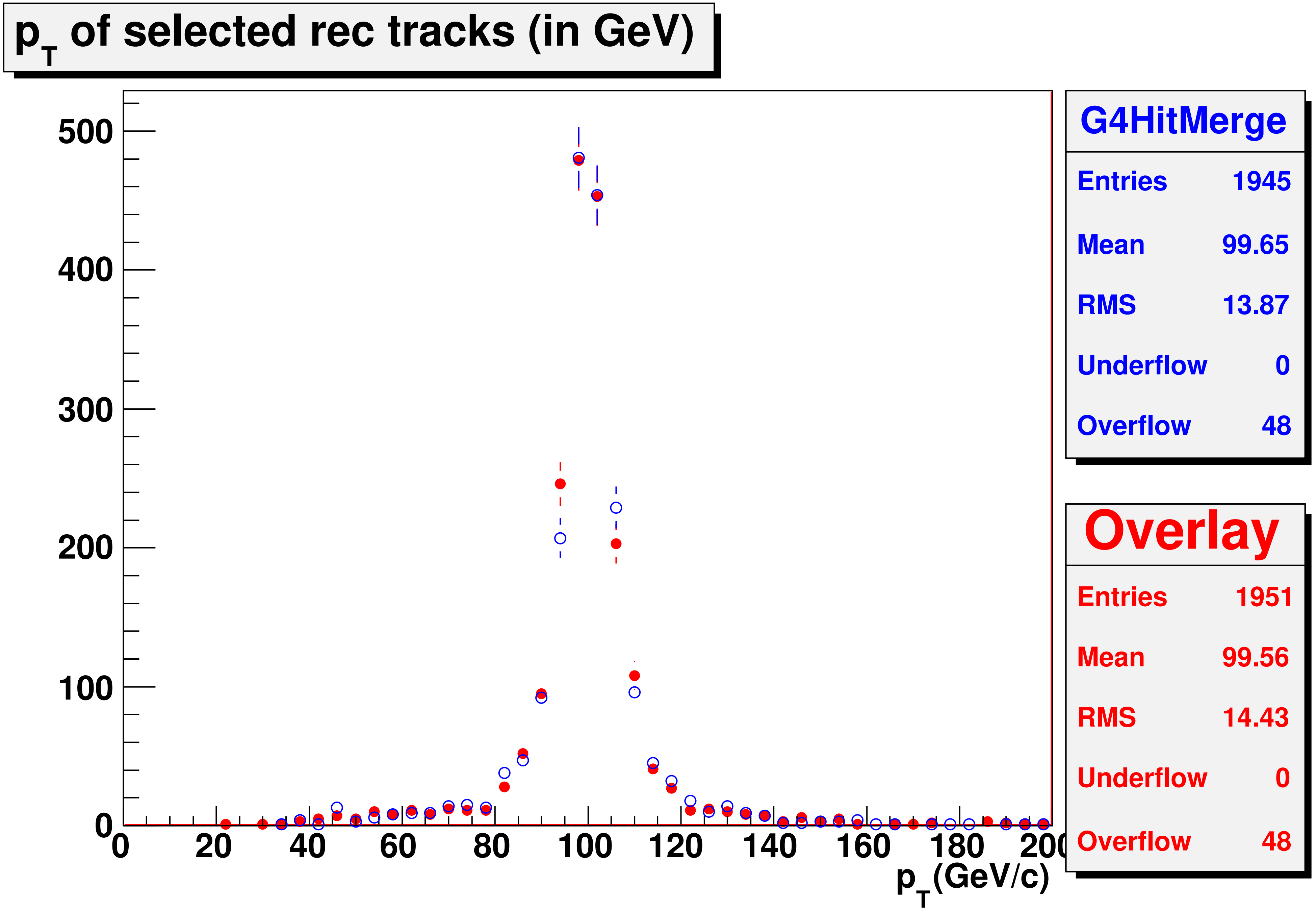

η of selected truth tracks
G4HitMerge
Entries 1945
Mean −0.04227
RMS 1.395
Underflow 0
Overflow 0
Overlay
Entries 1023
Mean −0.04802
RMS 1.384
Underflow 0
Overflow 0
0
20
40
60
80
100
120
140
160
180
200
−5
−4
−3
−2
−1
0
1
2
3
4
5
η

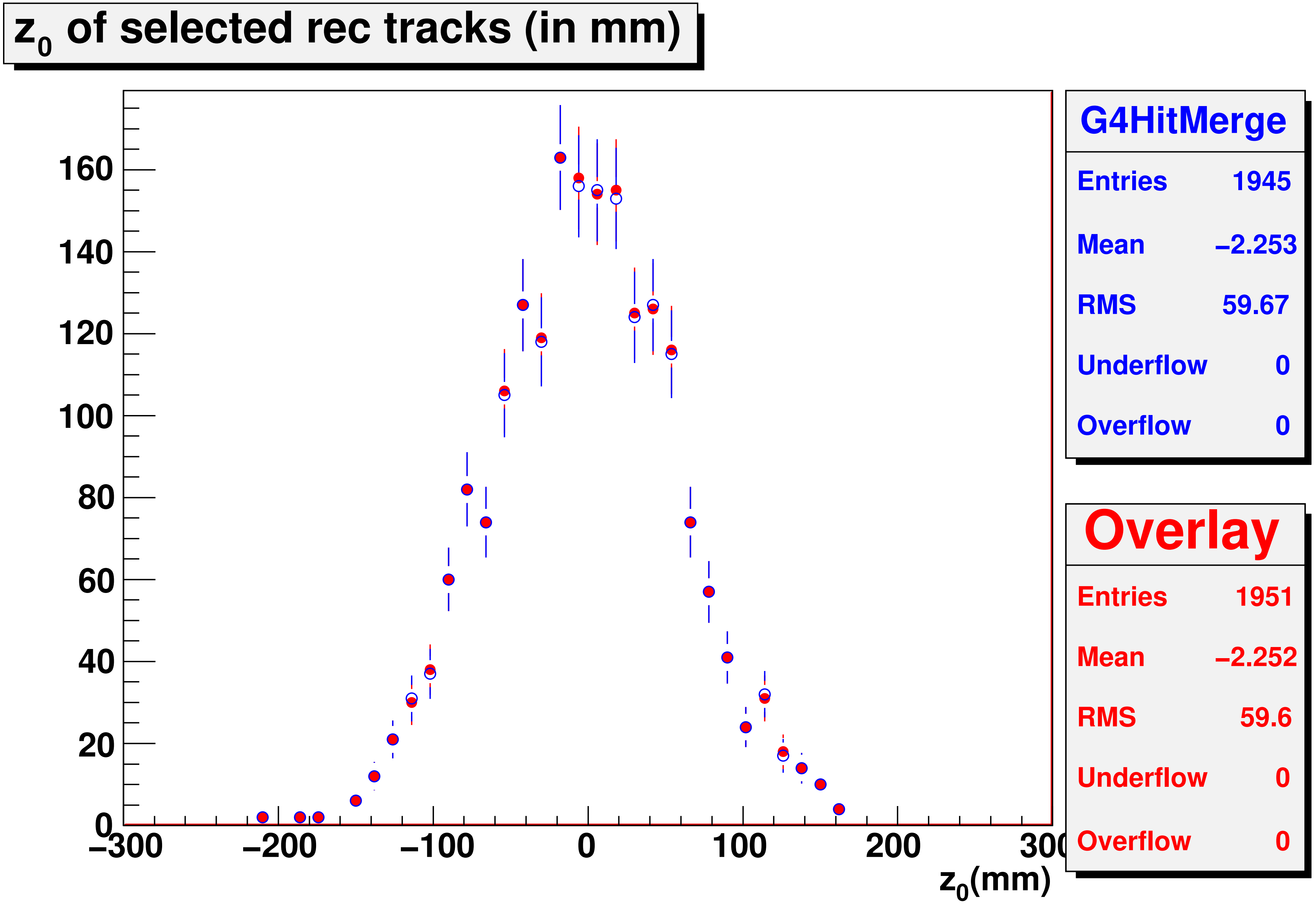


Z of interaction point (mm)
80
70
60
50
40
30
20
10
0
-300
-200
-100
0
100
200
300
R_z^{int}(mm)
G4HitMerge
Entries 1000
Mean -2.095
RMS 59.59
Underflow 0
Overflow 0
Overlay
Entries 2000
Mean -2.095
RMS 59.59
Underflow 0
Overflow 0

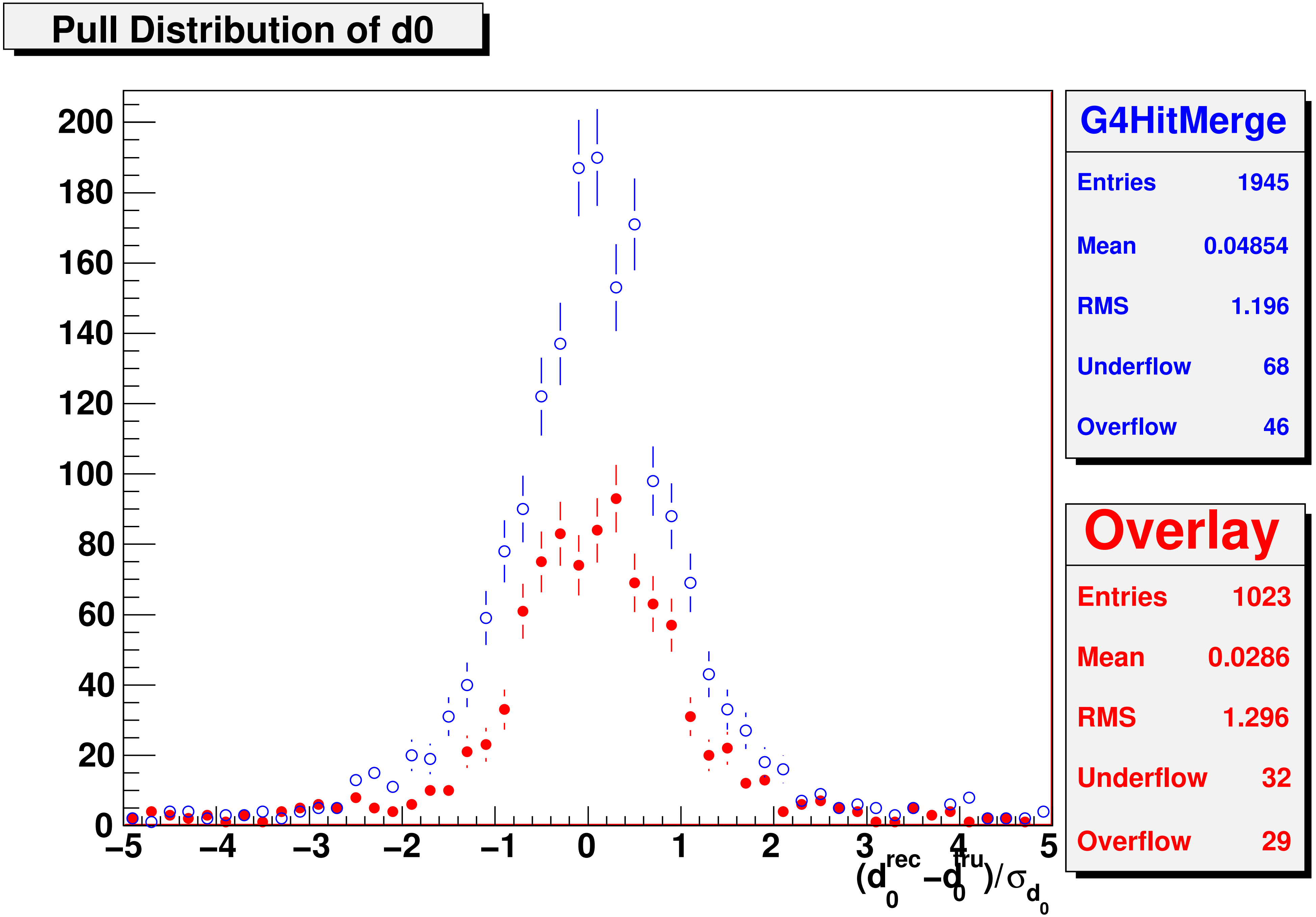


p_T of selected rec tracks (in GeV)
1
0
2
4
6
8
10
12
14
16
18
20
p_T (GeV/c)
G4HitMerge
Entries 1945
Mean 0
RMS 0
Underflow 0
Overflow 1945
Overlay
Entries 1951
Mean 0
RMS 0
Underflow 0
Overflow 1951

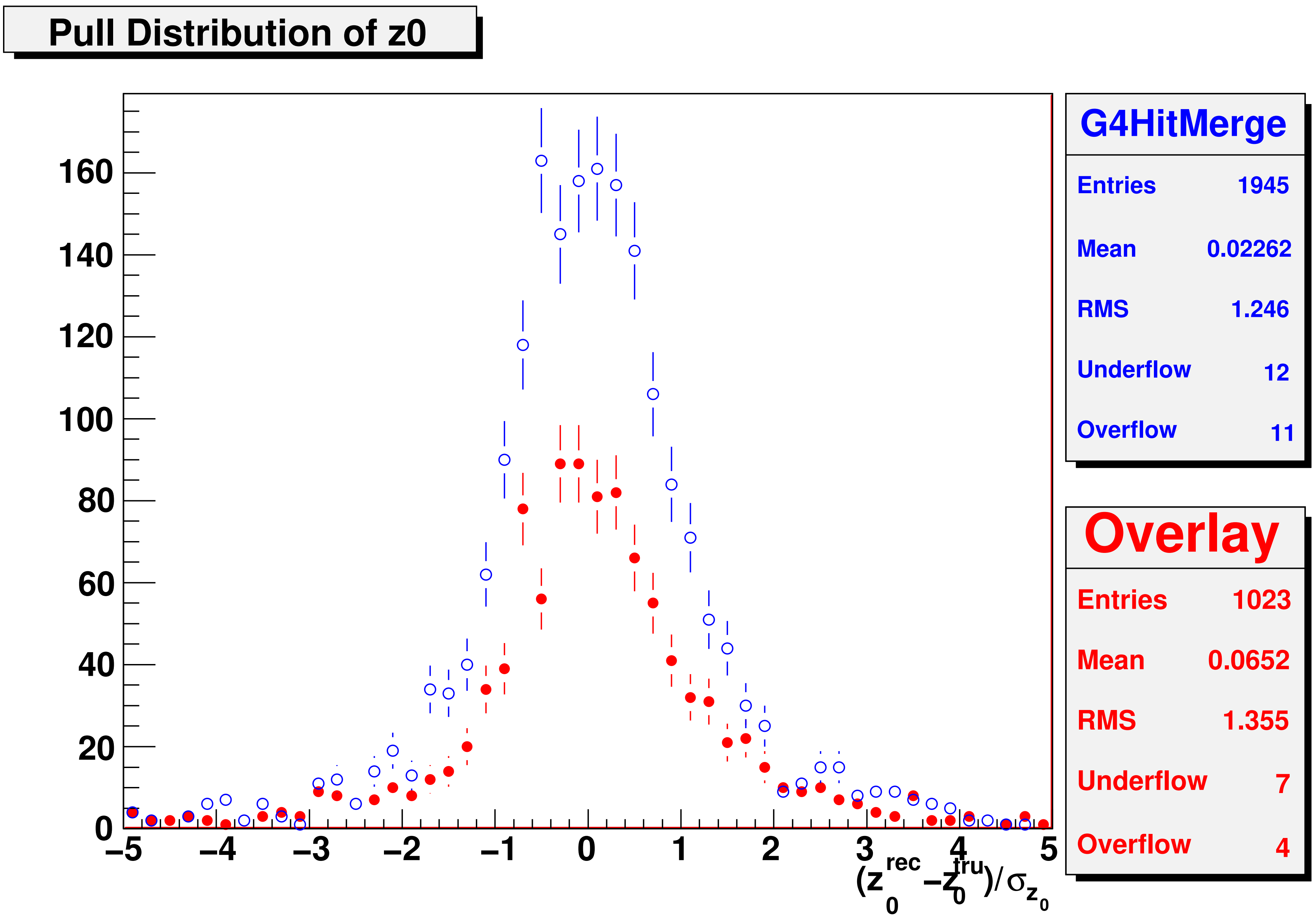

p_T of selected rec tracks (in GeV)
G4HitMerge
Entries 1945
Mean 99.65
RMS 13.87
Underflow 0
Overflow 48
Overlay
Entries 1951
Mean 99.56
RMS 14.43
Underflow 0
Overflow 48
0
100
200
300
400
500
0
20
40
60
80
100
120
140
160
180
200
p_T (GeV/c)

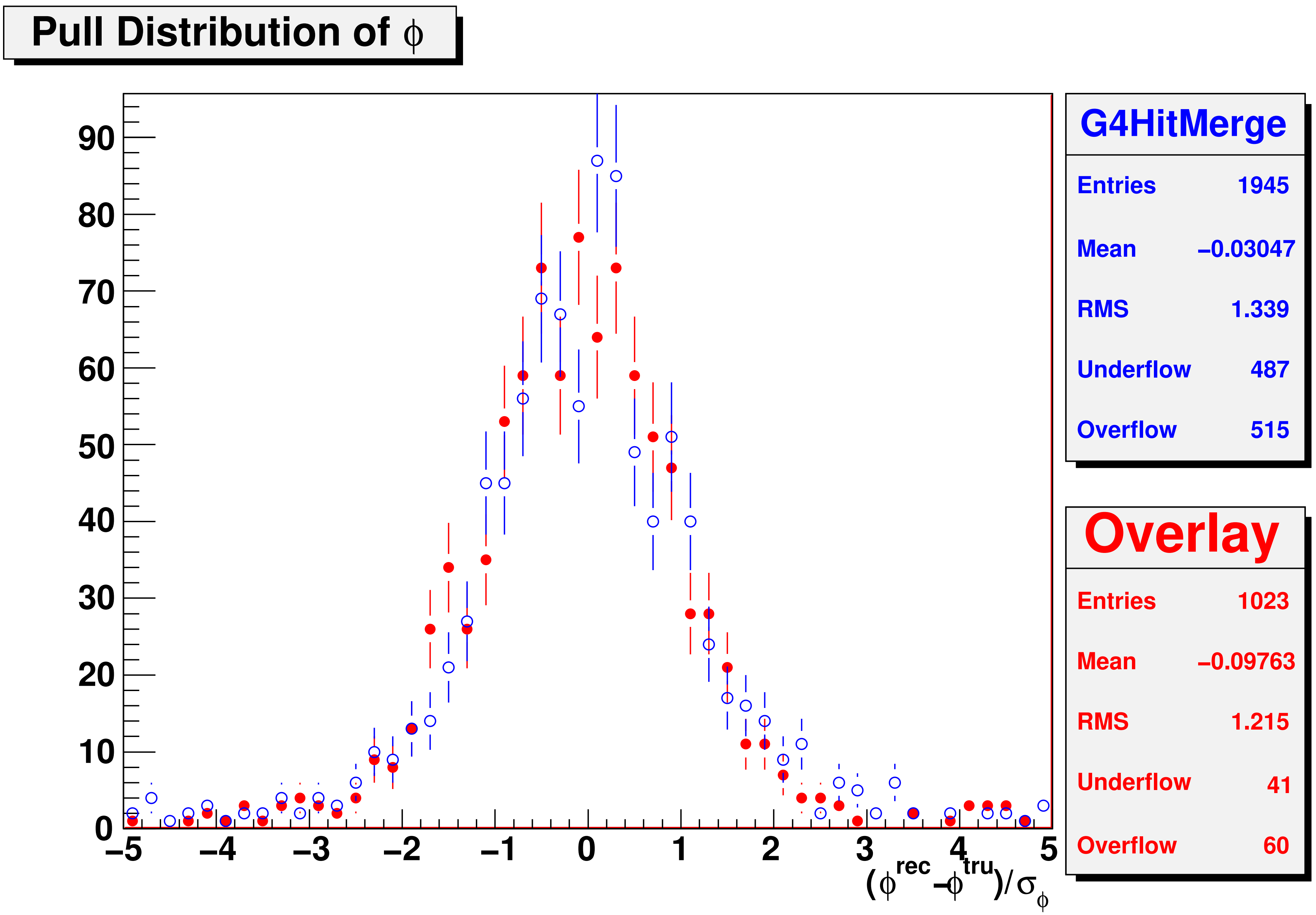


z0 of selected rec tracks (in mm)
160
140
120
100
80
60
40
20
0
–300
–200
–100
0
100
200
300
z0(mm)
G4HitMerge
Entries 1945
Mean –2.253
RMS 59.67
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean –2.252
RMS 59.6
Underflow 0
Overflow 0

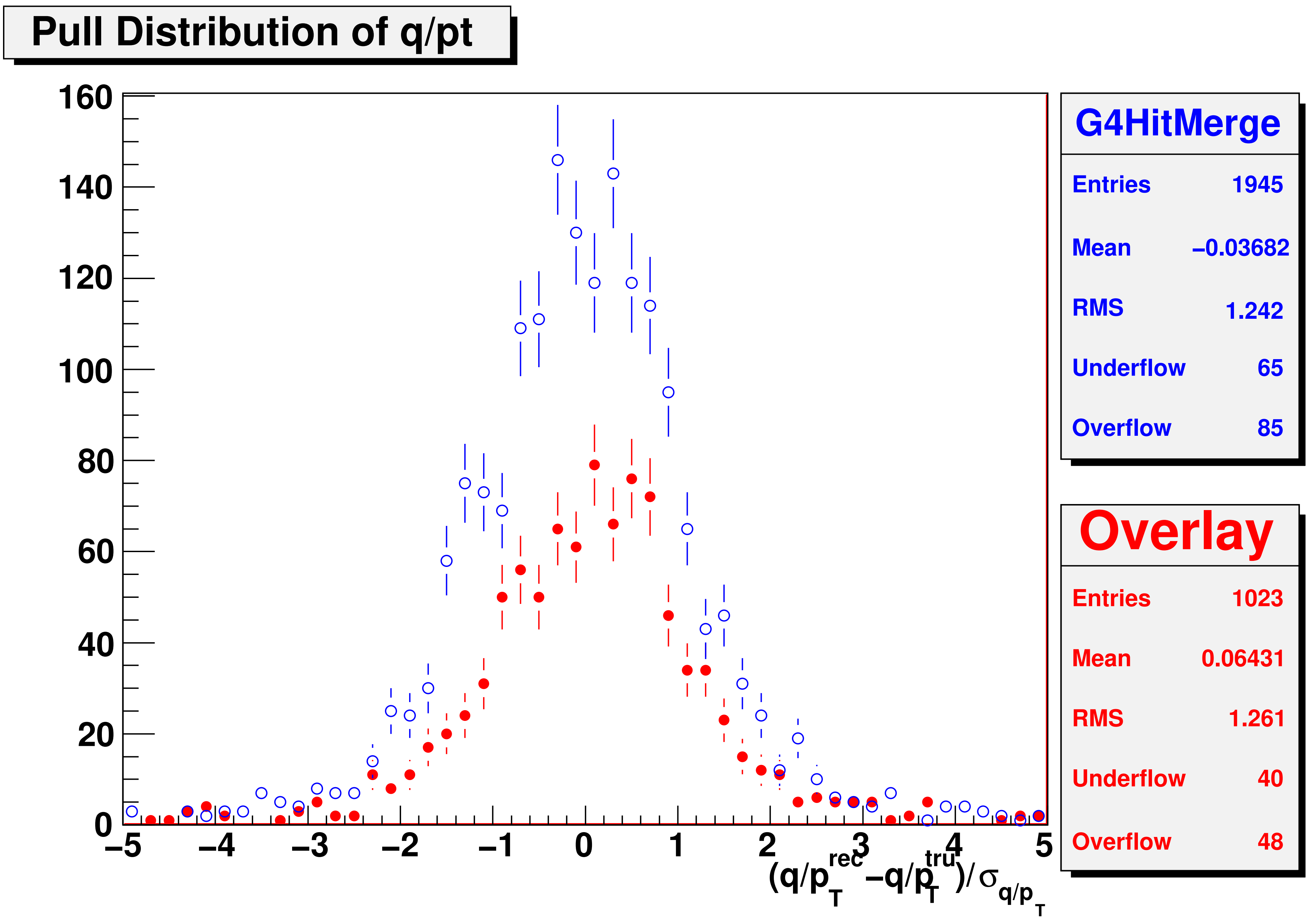


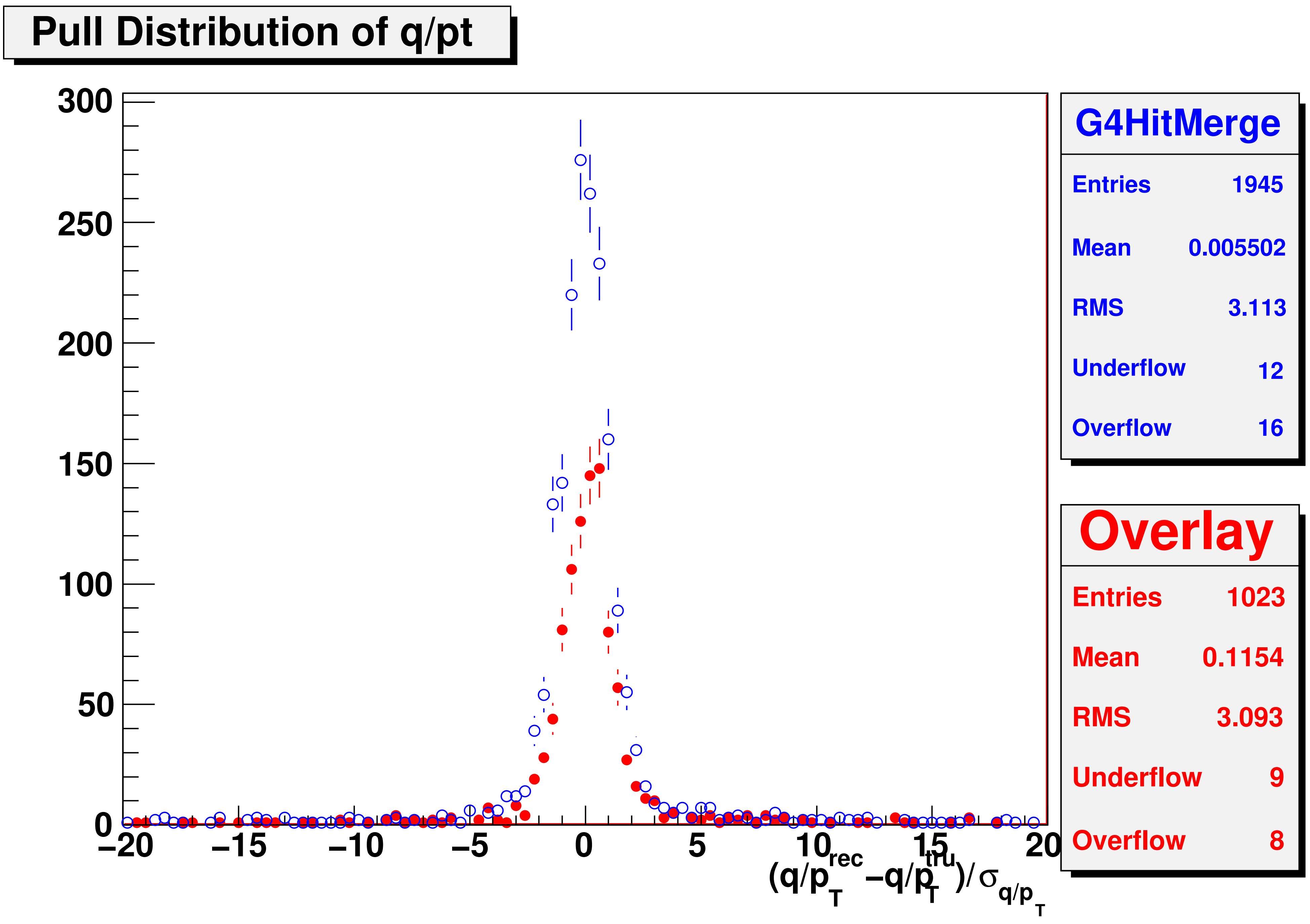
Pull Distribution of d0
G4HitMerge
Entries 1945
Mean 0.04854
RMS 1.196
Underflow 68
Overflow 46
Overlay
Entries 1023
Mean 0.0286
RMS 1.296
Underflow 32
Overflow 29
0
20
40
60
80
100
120
140
160
180
200
−5
−4
−3
−2
−1
0
1
2
3
4
5
$(d_0^{rec} - d_0^{tru})/\sigma_{d_0}$


Pull Distribution of z0
G4HitMerge
Entries 1945
Mean 0.02262
RMS 1.246
Underflow 12
Overflow 11
Overlay
Entries 1023
Mean 0.0652
RMS 1.355
Underflow 7
Overflow 4
0
20
40
60
80
100
120
140
160
−5
−4
−3
−2
−1
0
1
2
3
4
5
$(z_0^{rec}-z_0^{tru})/\sigma_{z_0}$



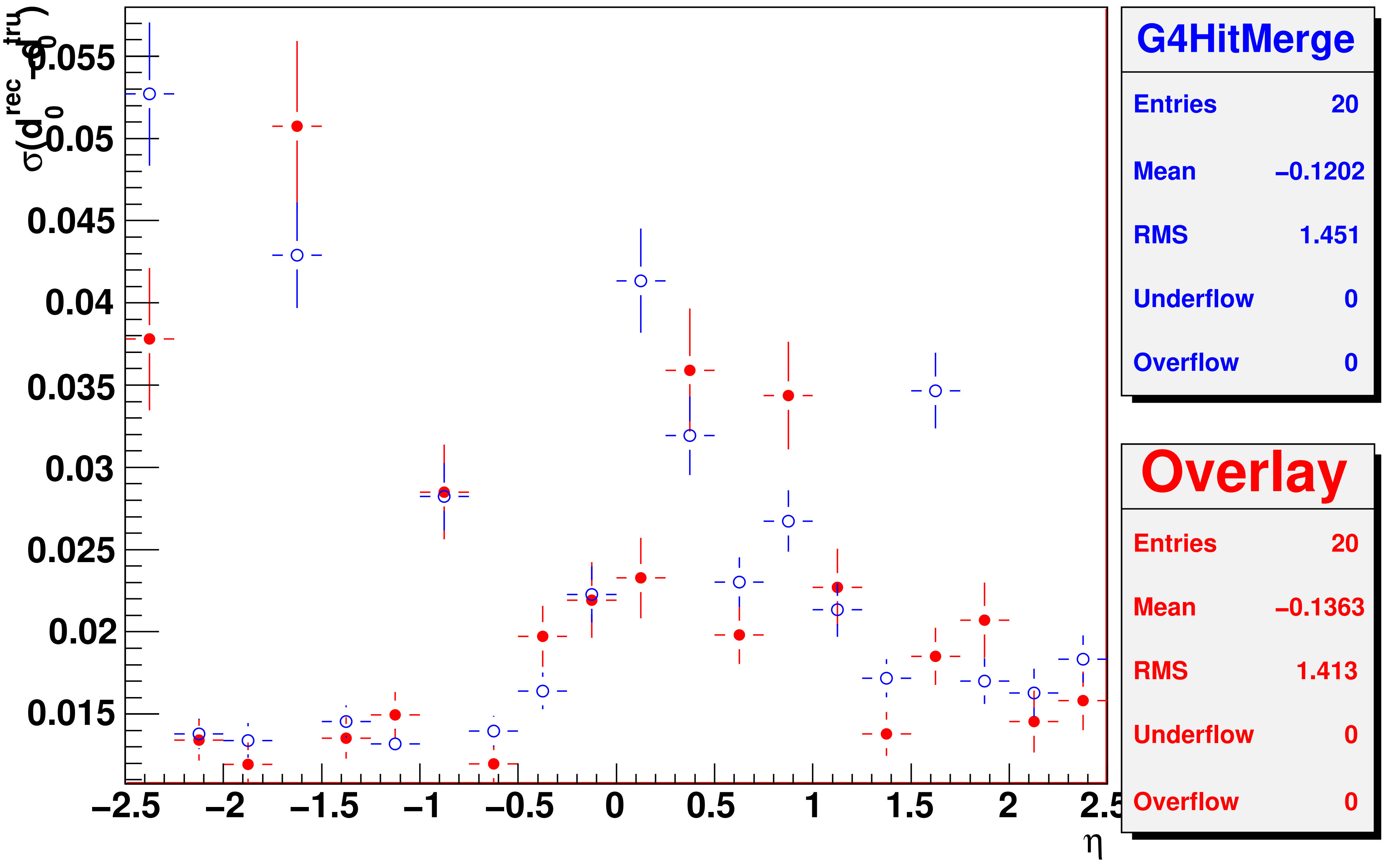
Pull Distribution of ϕ
90
80
70
60
50
40
30
20
10
0
–5
–4
–3
–2
–1
0
1
2
3
4
5
$(\phi^{rec}-\phi^{tru})/\sigma_{\phi}$
G4HitMerge
Entries 1945
Mean –0.03047
RMS 1.339
Underflow 487
Overflow 515
Overlay
Entries 1023
Mean –0.09763
RMS 1.215
Underflow 41
Overflow 60

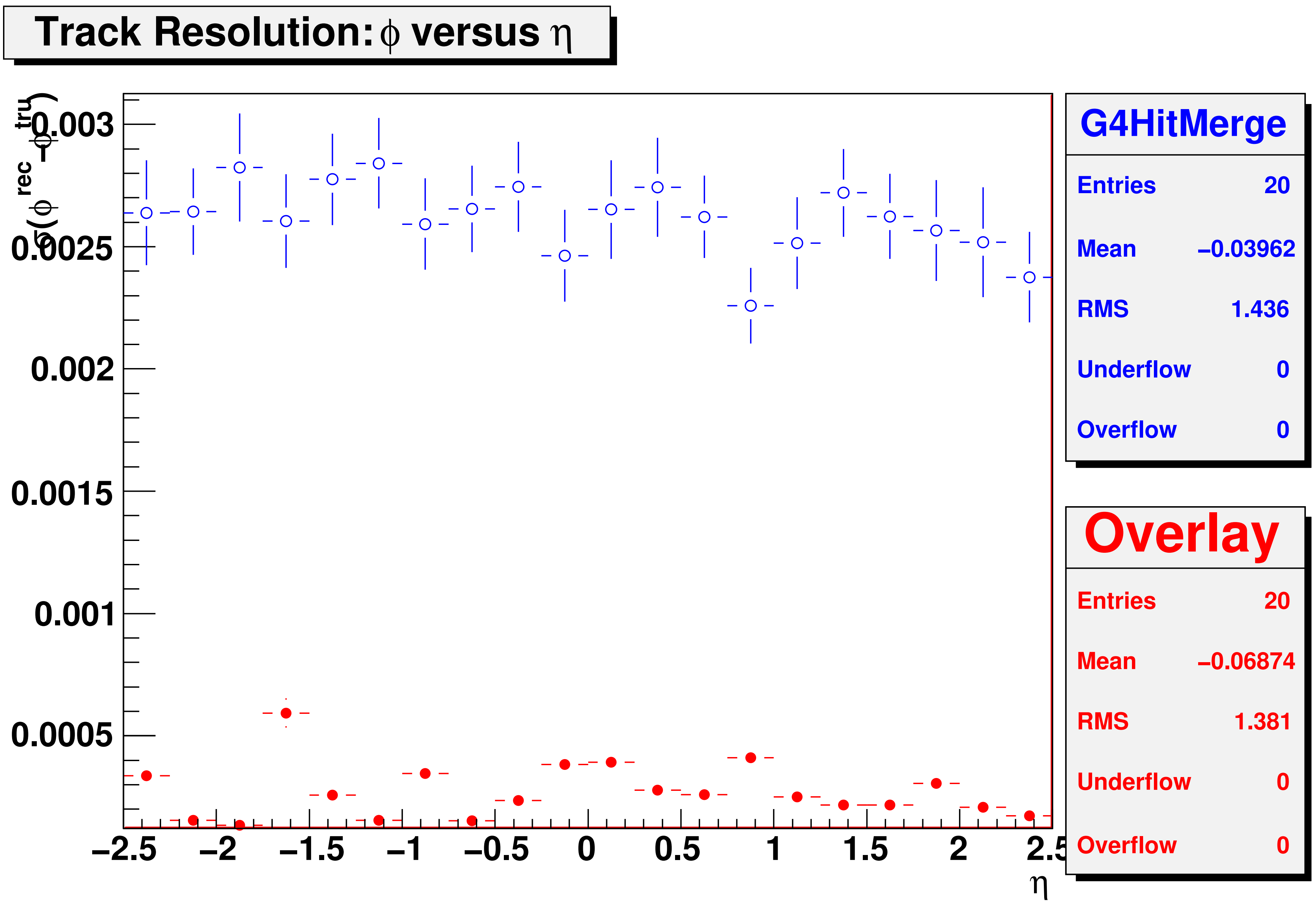

Pull Distribution of q/pt
160
140
120
100
80
60
40
20
0
–5
–4
–3
–2
–1
0
1
2
3
4
5
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$
G4HitMerge
Entries 1945
Mean –0.03682
RMS 1.242
Underflow 65
Overflow 85
Overlay
Entries 1023
Mean 0.06431
RMS 1.261
Underflow 40
Overflow 48



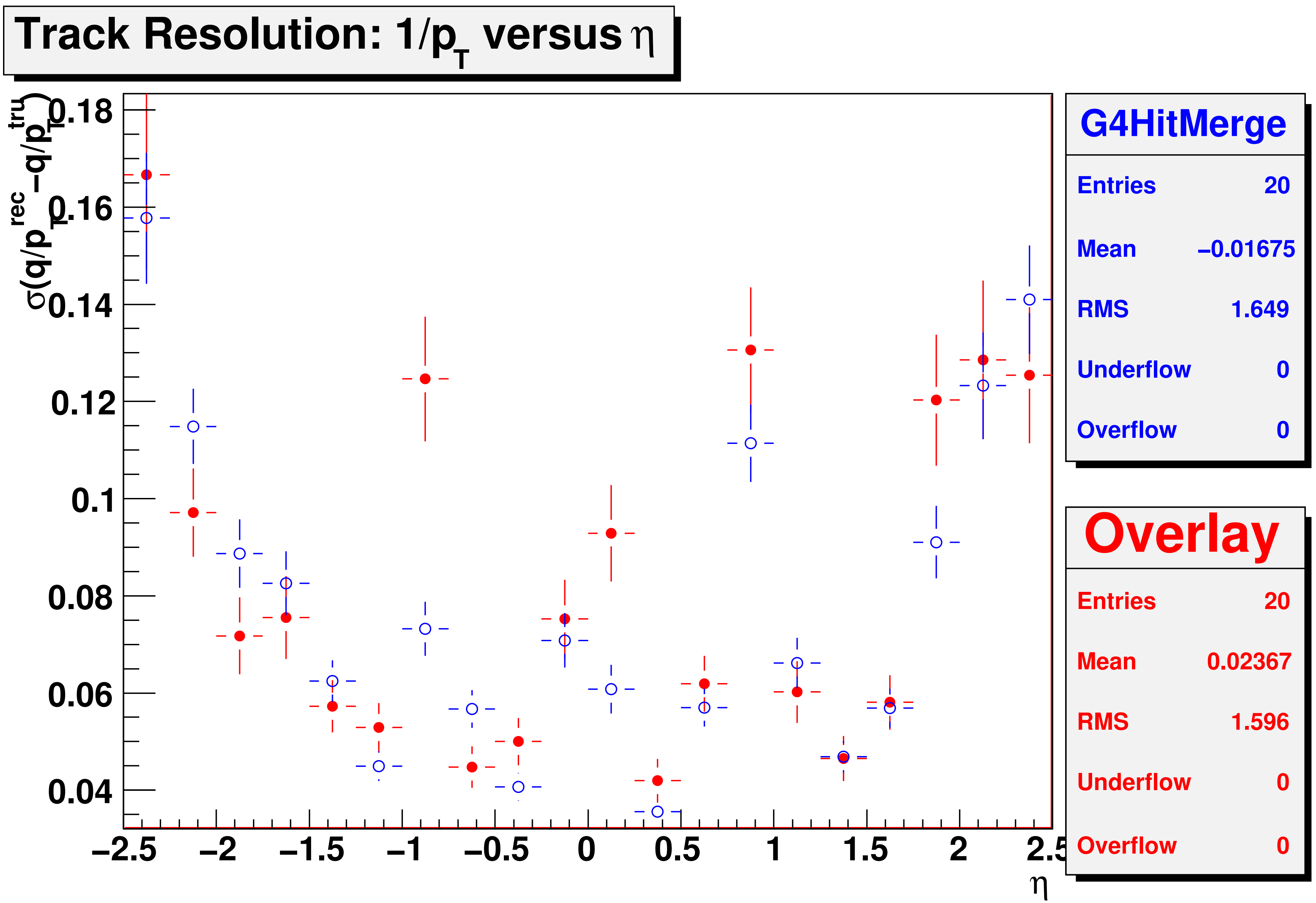
Pull Distribution of q/pt
G4HitMerge
Entries 1945
Mean 0.005502
RMS 3.113
Underflow 12
Overflow 16
Overlay
Entries 1023
Mean 0.1154
RMS 3.093
Underflow 9
Overflow 8
300
250
200
150
100
50
0
−20
−15
−10
−5
0
5
10
15
20
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$

Track Resolution: d_0 versus η

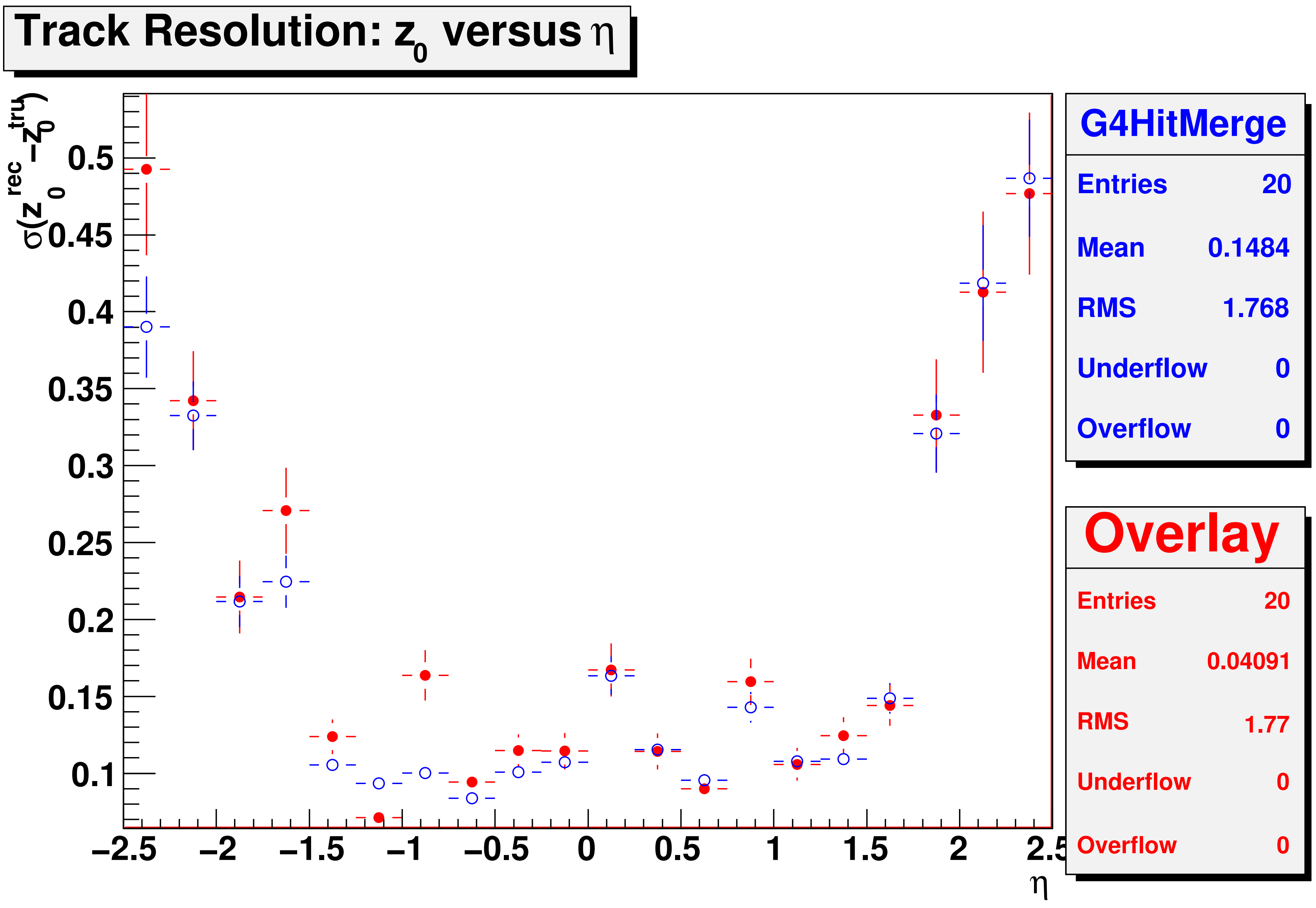




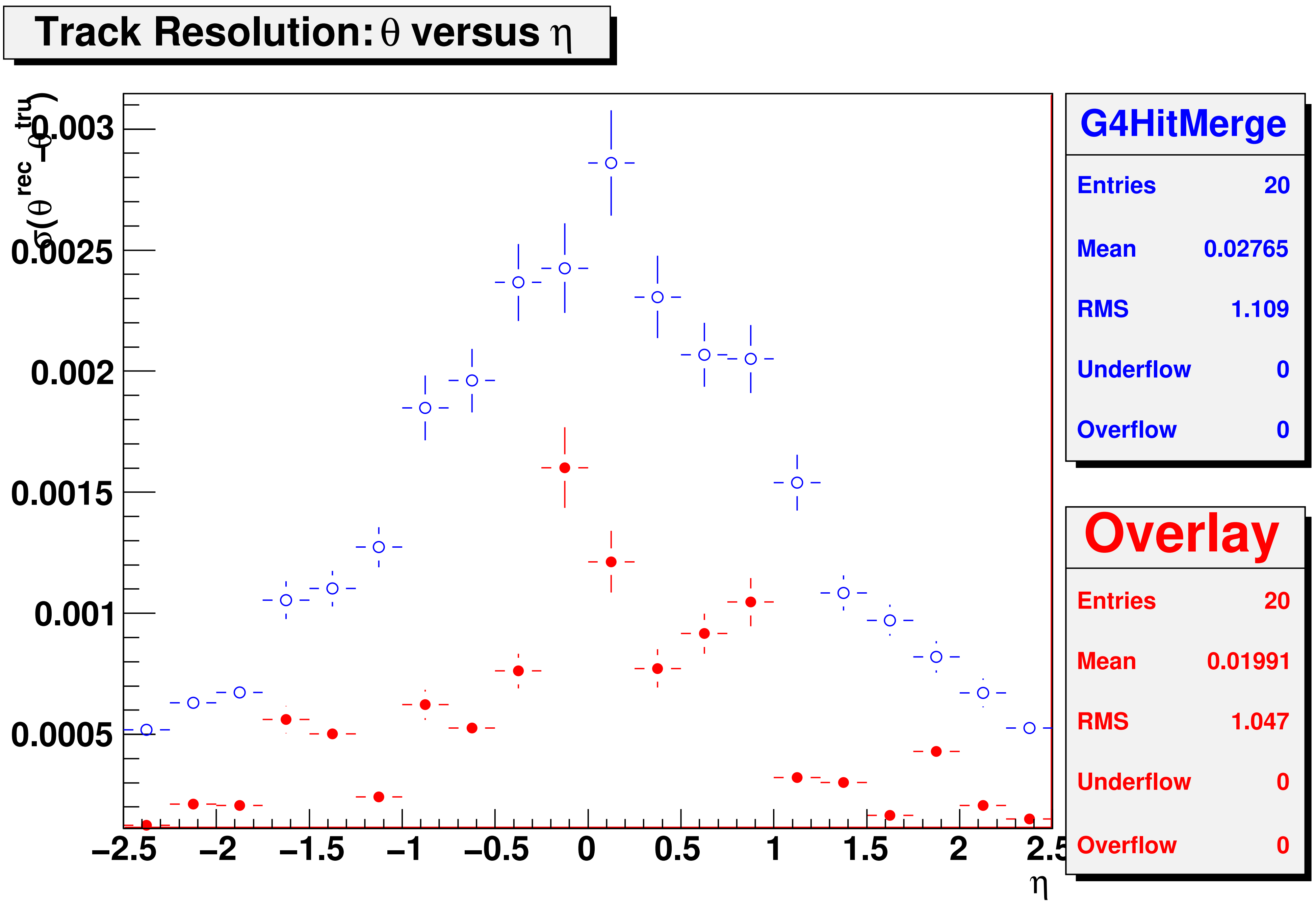
Track Resolution: ϕ versus η
$\sigma(\phi^{rec}-\phi^{tru})$
0.003
0.0025
0.002
0.0015
0.001
0.0005
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.03962
RMS 1.436
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.06874
RMS 1.381
Underflow 0
Overflow 0

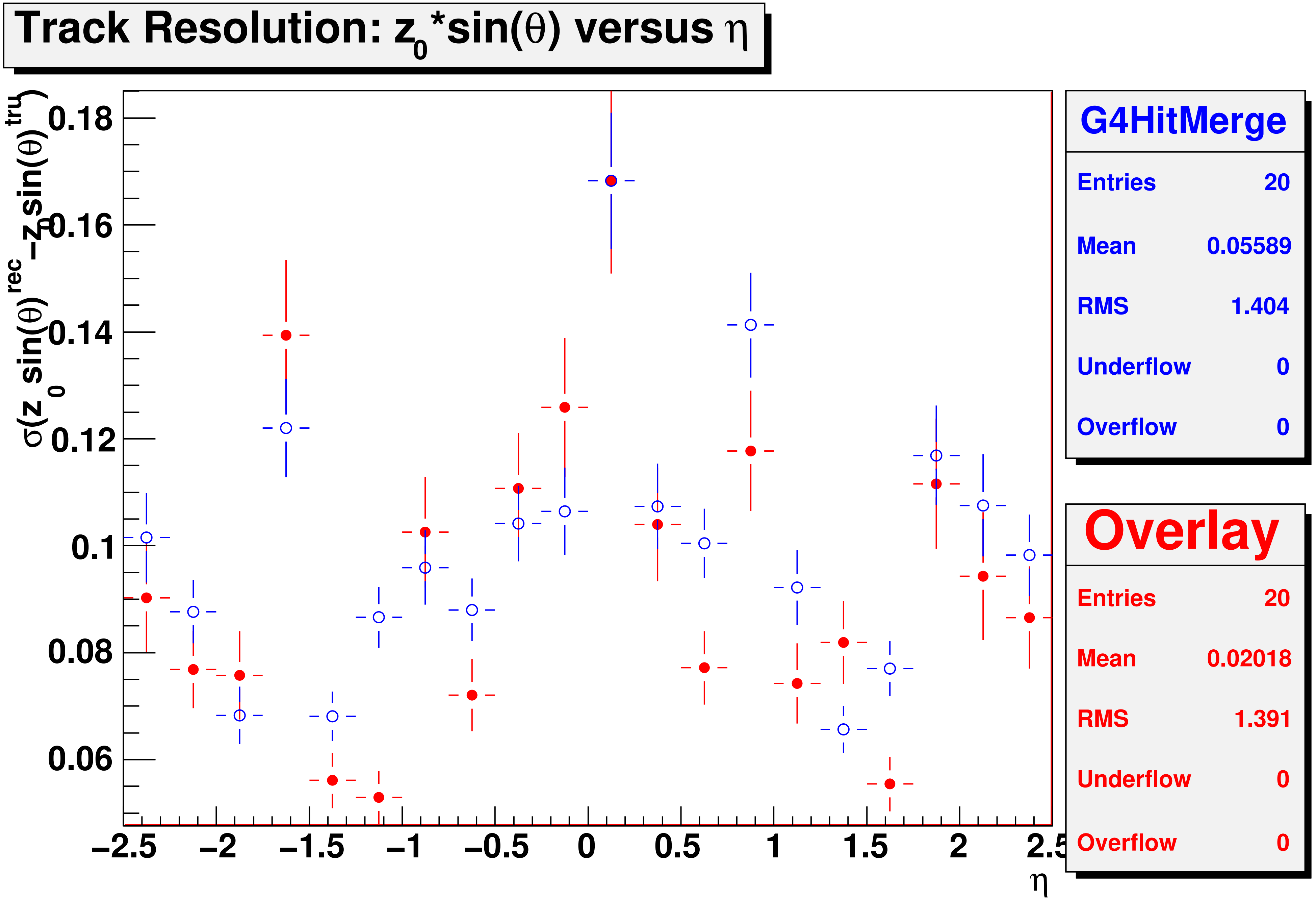


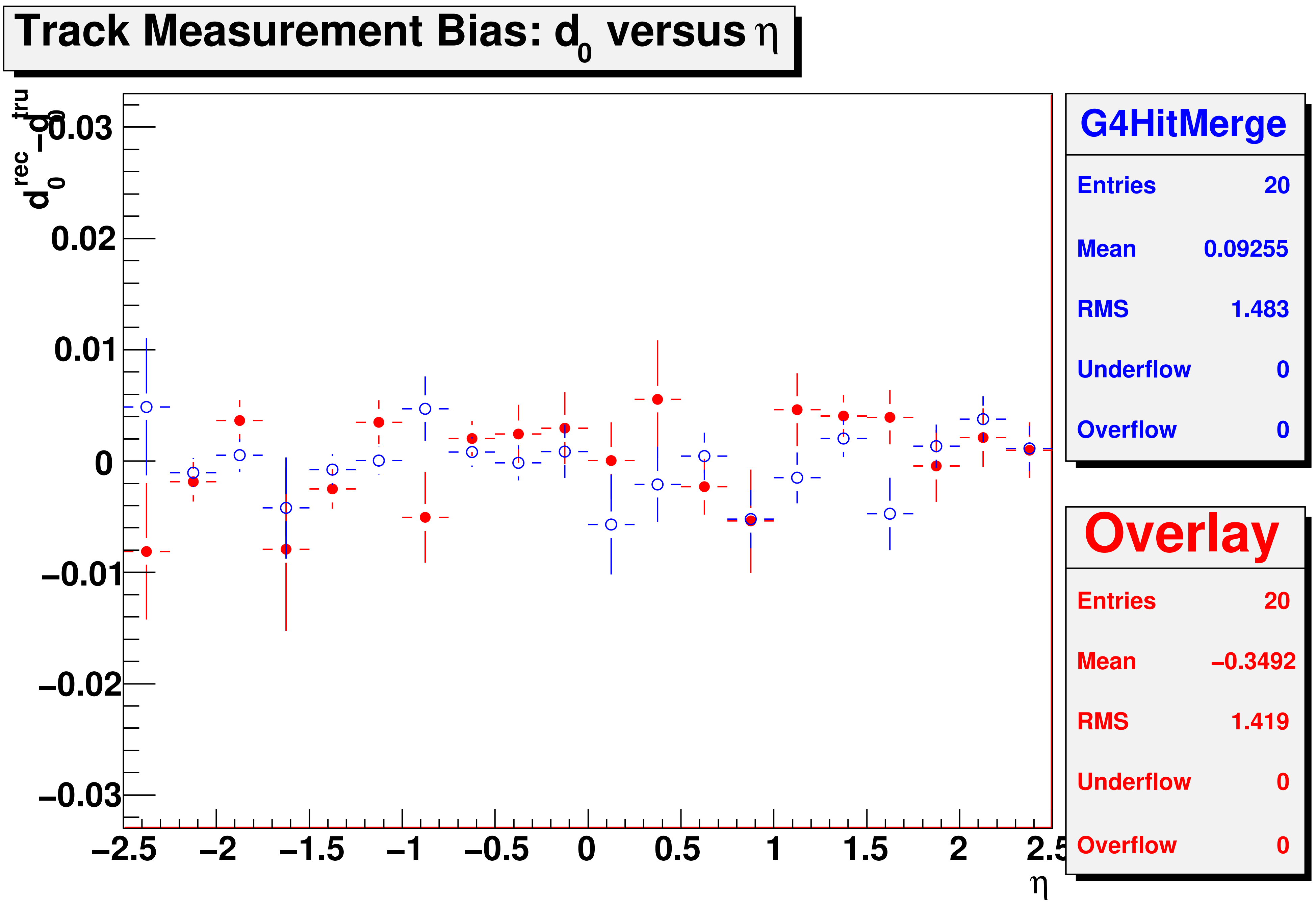
Track Resolution: 1/p_T versus η
σ(q/p_T^rec − q/p_T^tru)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.01675
RMS 1.649
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.02367
RMS 1.596
Underflow 0
Overflow 0



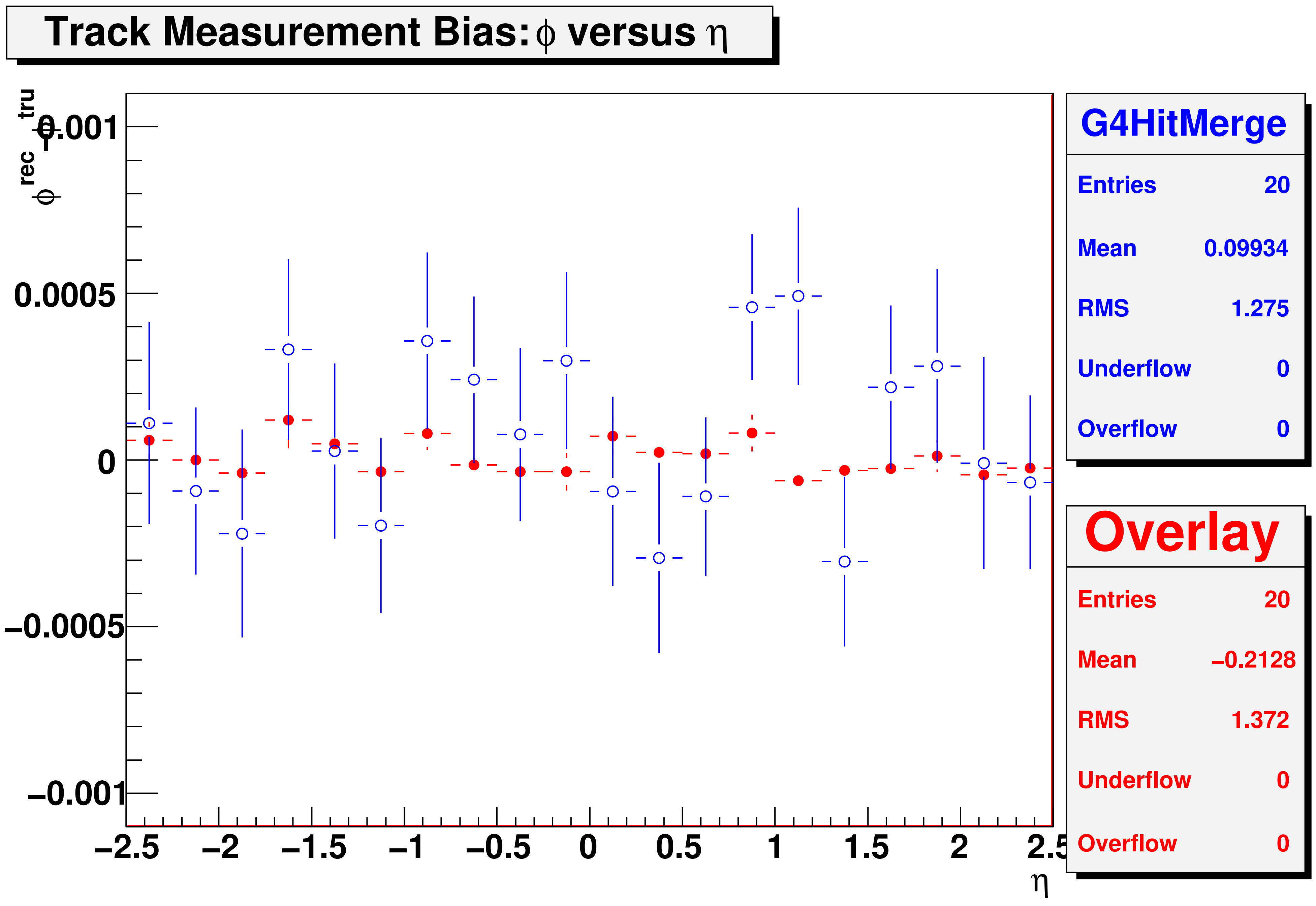
Track Resolution: z0 versus η
σ(z0rec−z0tru)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.1484
RMS 1.768
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.04091
RMS 1.77
Underflow 0
Overflow 0

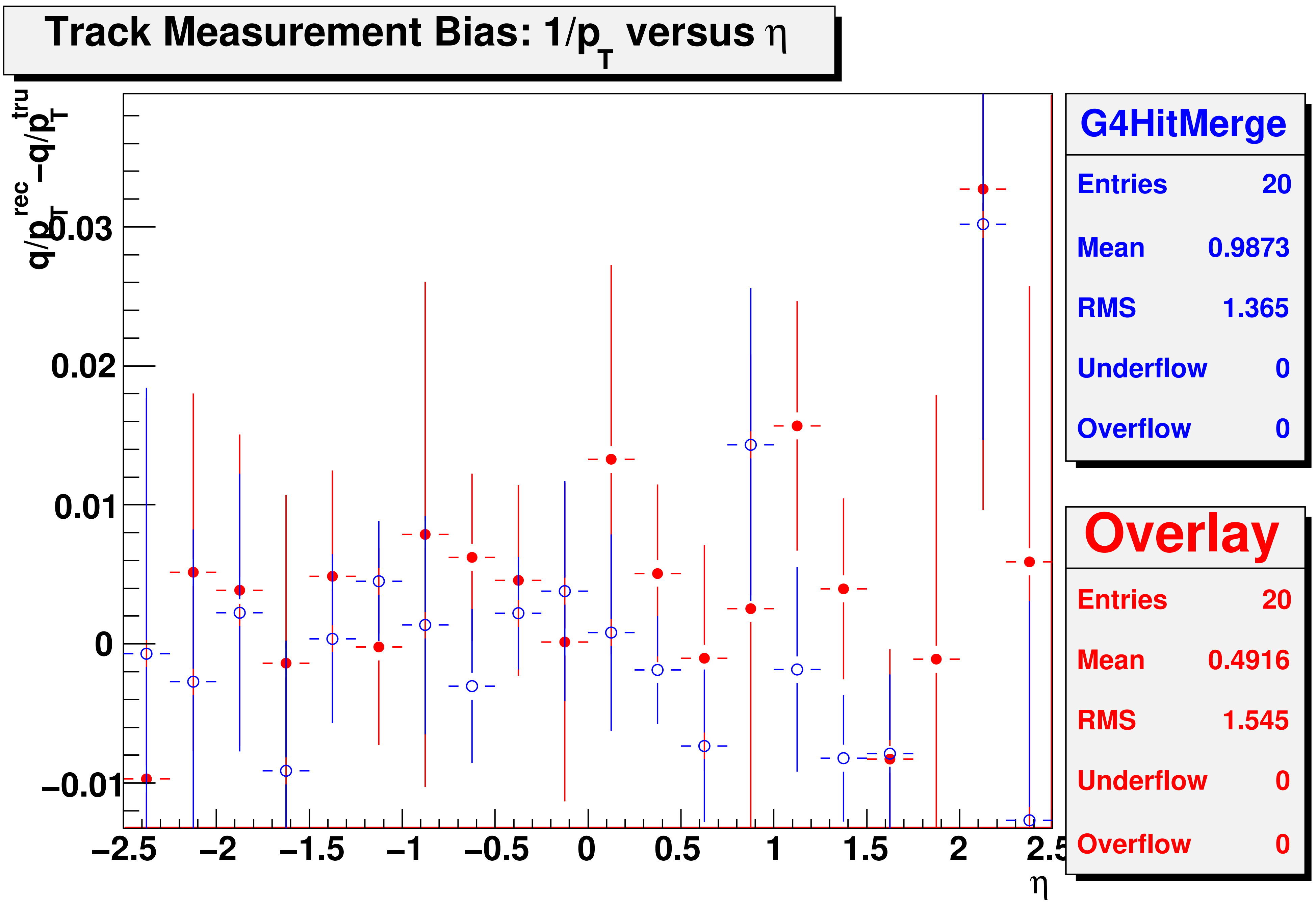

Track Resolution: θ versus η
σ(θ^rec − θ^tru)
0.003
0.0025
0.002
0.0015
0.001
0.0005
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.02765
RMS 1.109
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.01991
RMS 1.047
Underflow 0
Overflow 0


Track Resolution: z_0*sin(θ) versus η
σ(z_0 sin(θ)^rec − z_0 sin(θ)^tru)
0.18
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 0.05589
RMS 1.404
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.02018
RMS 1.391
Underflow 0
Overflow 0

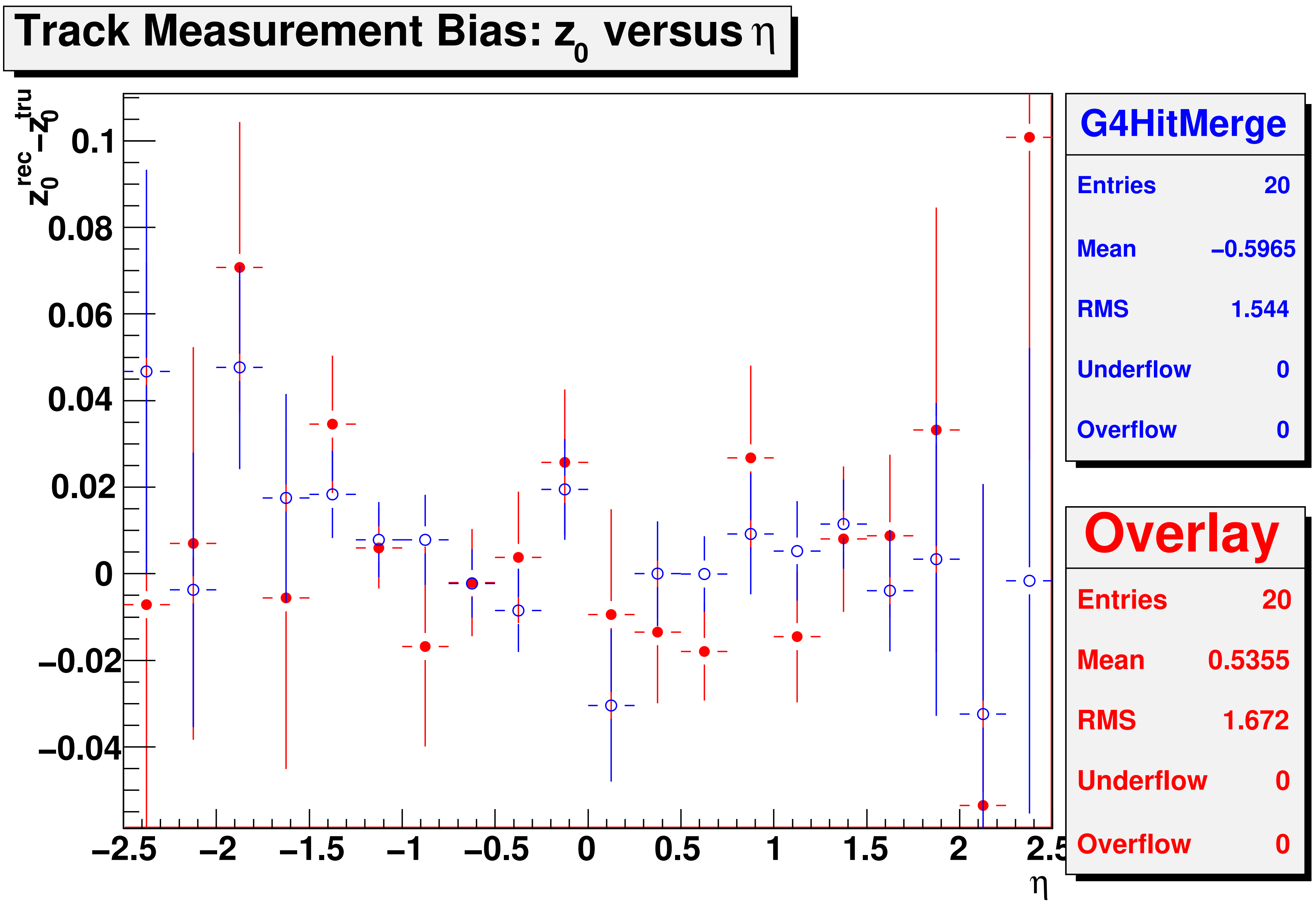


Track Measurement Bias: d_0 versus η
$d_0^{rec}-d_0^{tru}$
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.09255
RMS 1.483
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.3492
RMS 1.419
Underflow 0
Overflow 0

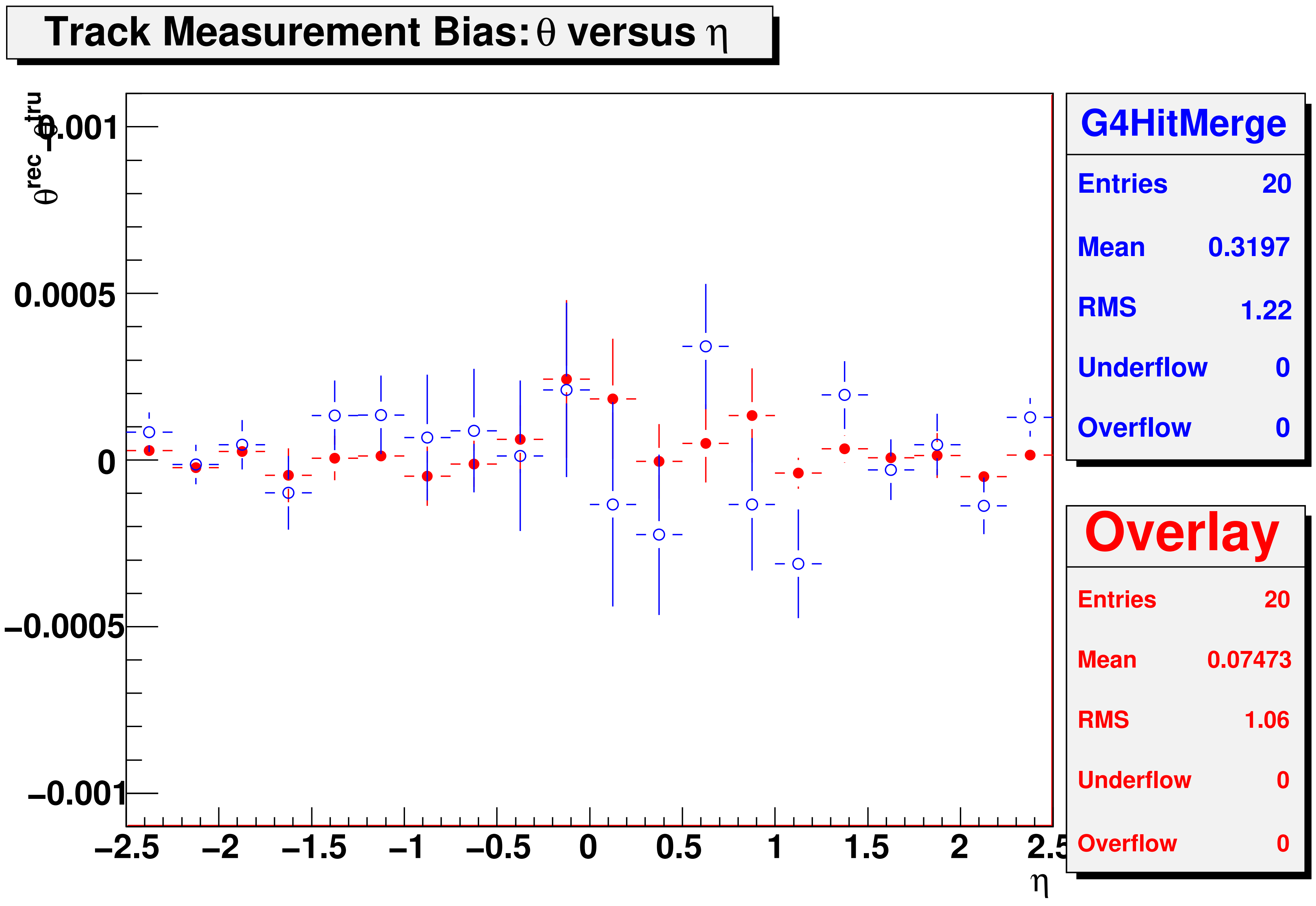

Track Measurement Bias: ϕ versus η
$\phi^{rec} - \phi^{tru}$
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.09934
RMS 1.275
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.2128
RMS 1.372
Underflow 0
Overflow 0



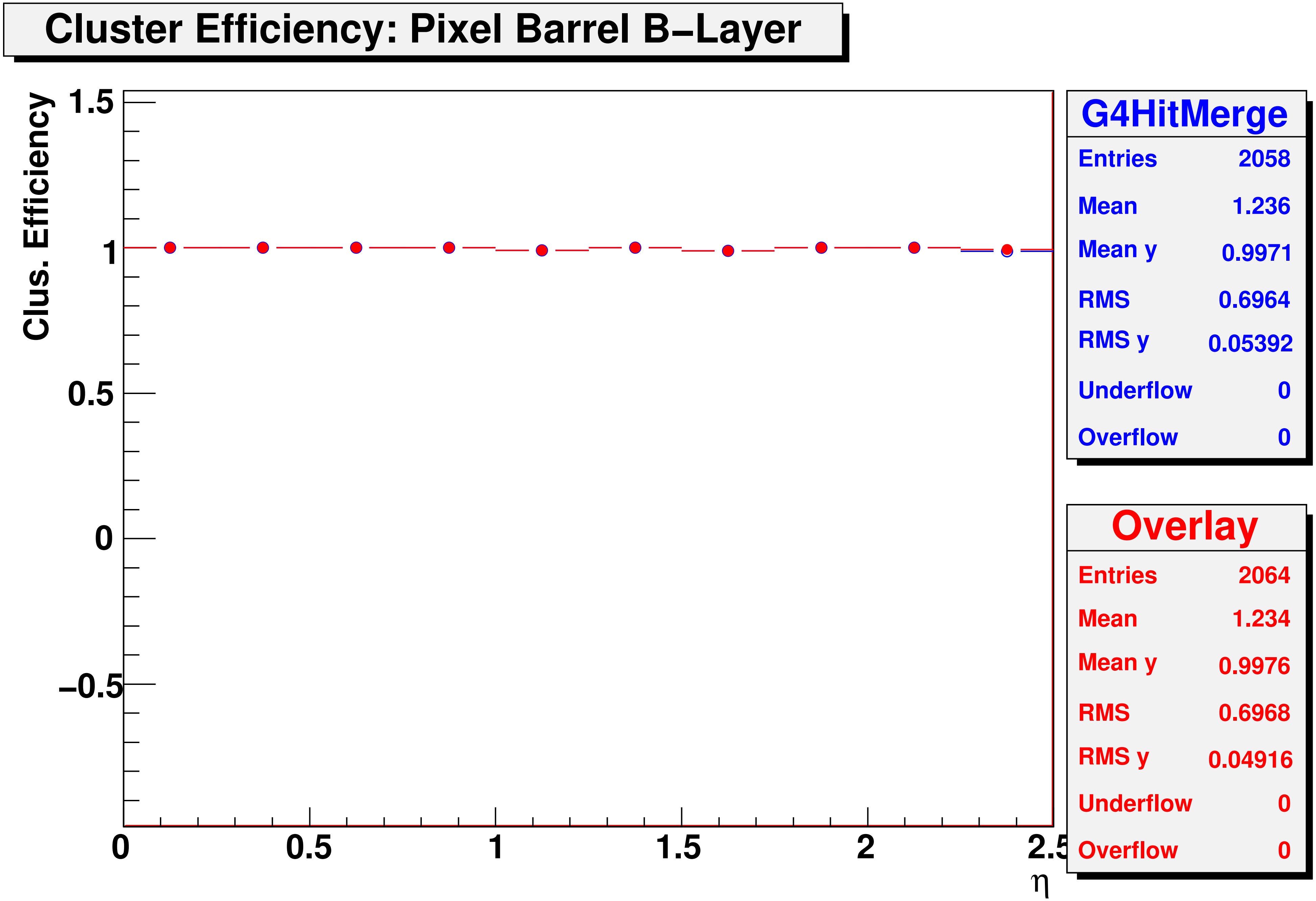
Track Measurement Bias: 1/p_T versus η
q/p_T^rec − q/p_T^tru
η
0.03
0.02
0.01
0
−0.01
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
G4HitMerge
Entries 20
Mean 0.9873
RMS 1.365
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.4916
RMS 1.545
Underflow 0
Overflow 0

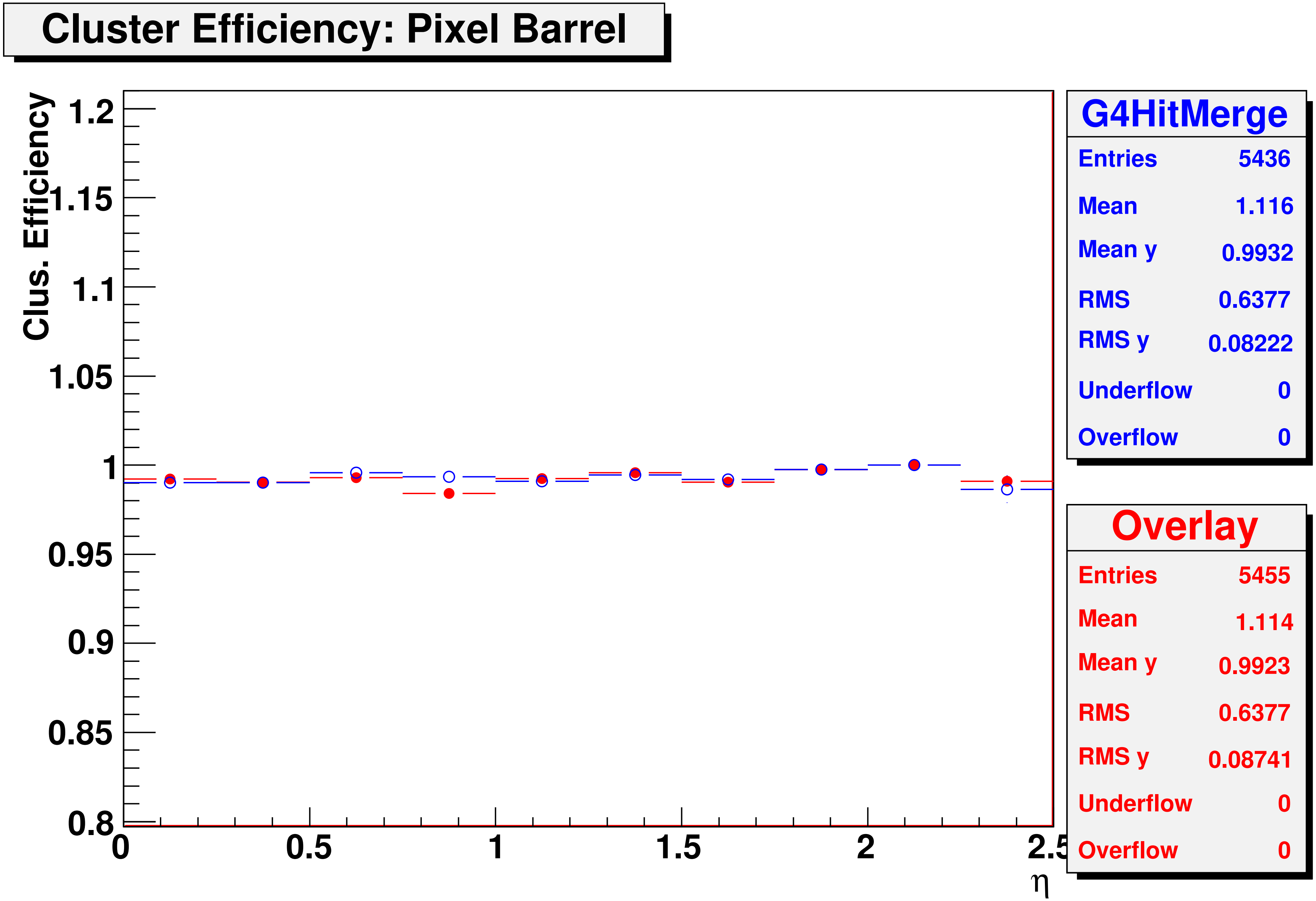


Track Measurement Bias: z_0 versus η
$z_0^{rec} - z_0^{tru}$
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.5965
RMS 1.544
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.5355
RMS 1.672
Underflow 0
Overflow 0

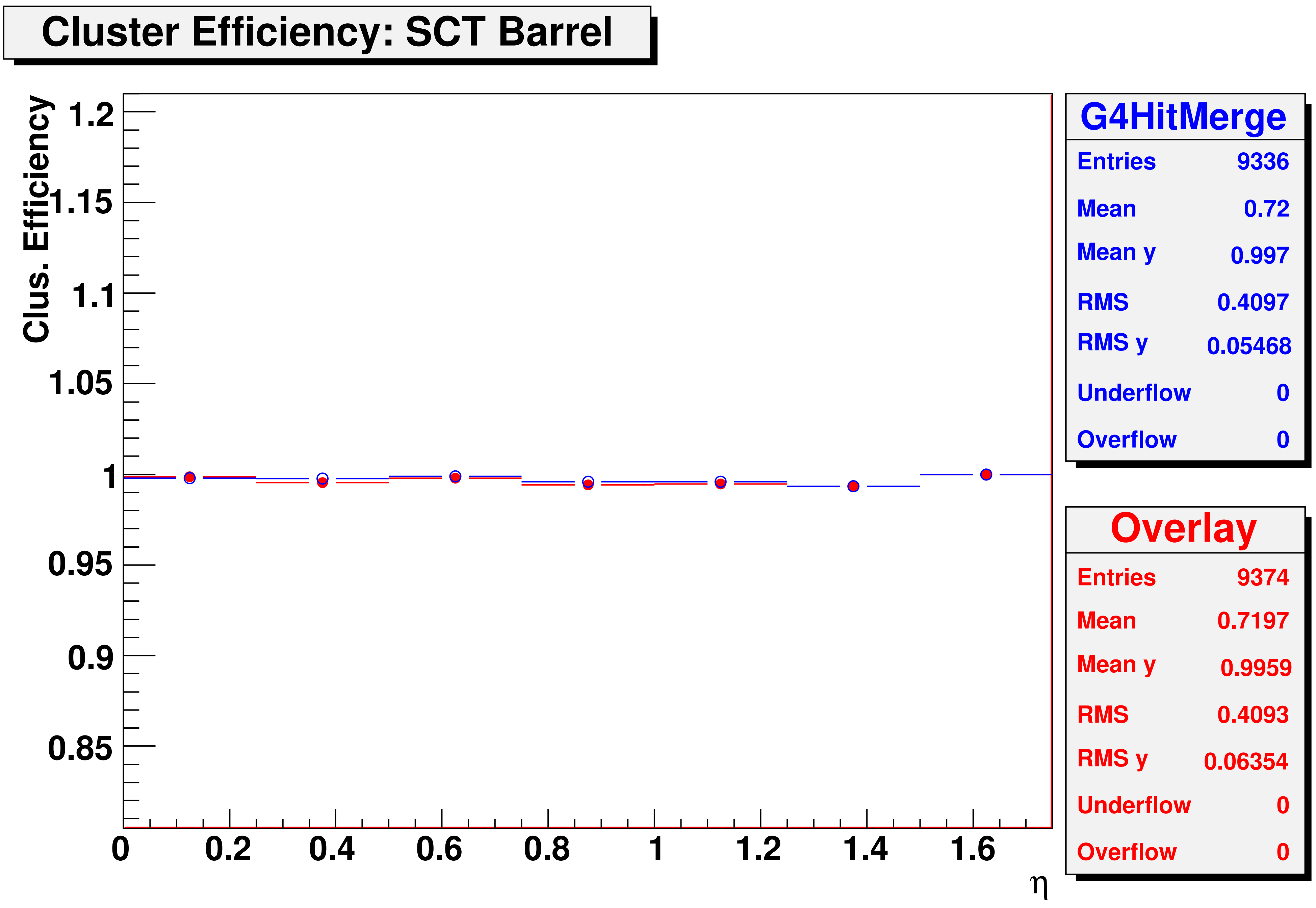


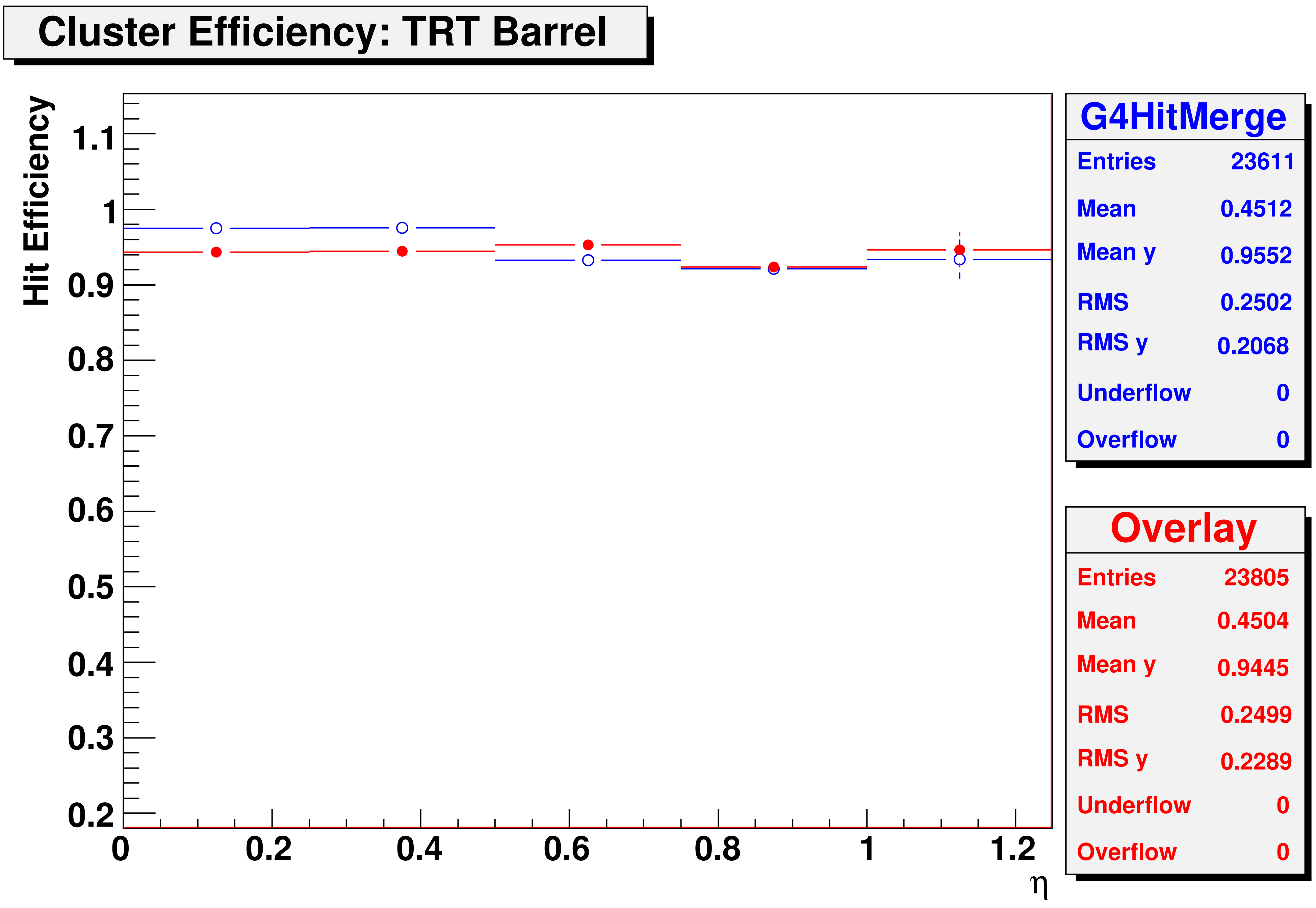
Track Measurement Bias: θ versus η
$\theta^{rec}-\theta^{tru}$
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.3197
RMS 1.22
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.07473
RMS 1.06
Underflow 0
Overflow 0


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 2058
Mean 1.236
Mean y 0.9971
RMS 0.6964
RMS y 0.05392
Underflow 0
Overflow 0
Overlay
Entries 2064
Mean 1.234
Mean y 0.9976
RMS 0.6968
RMS y 0.04916
Underflow 0
Overflow 0

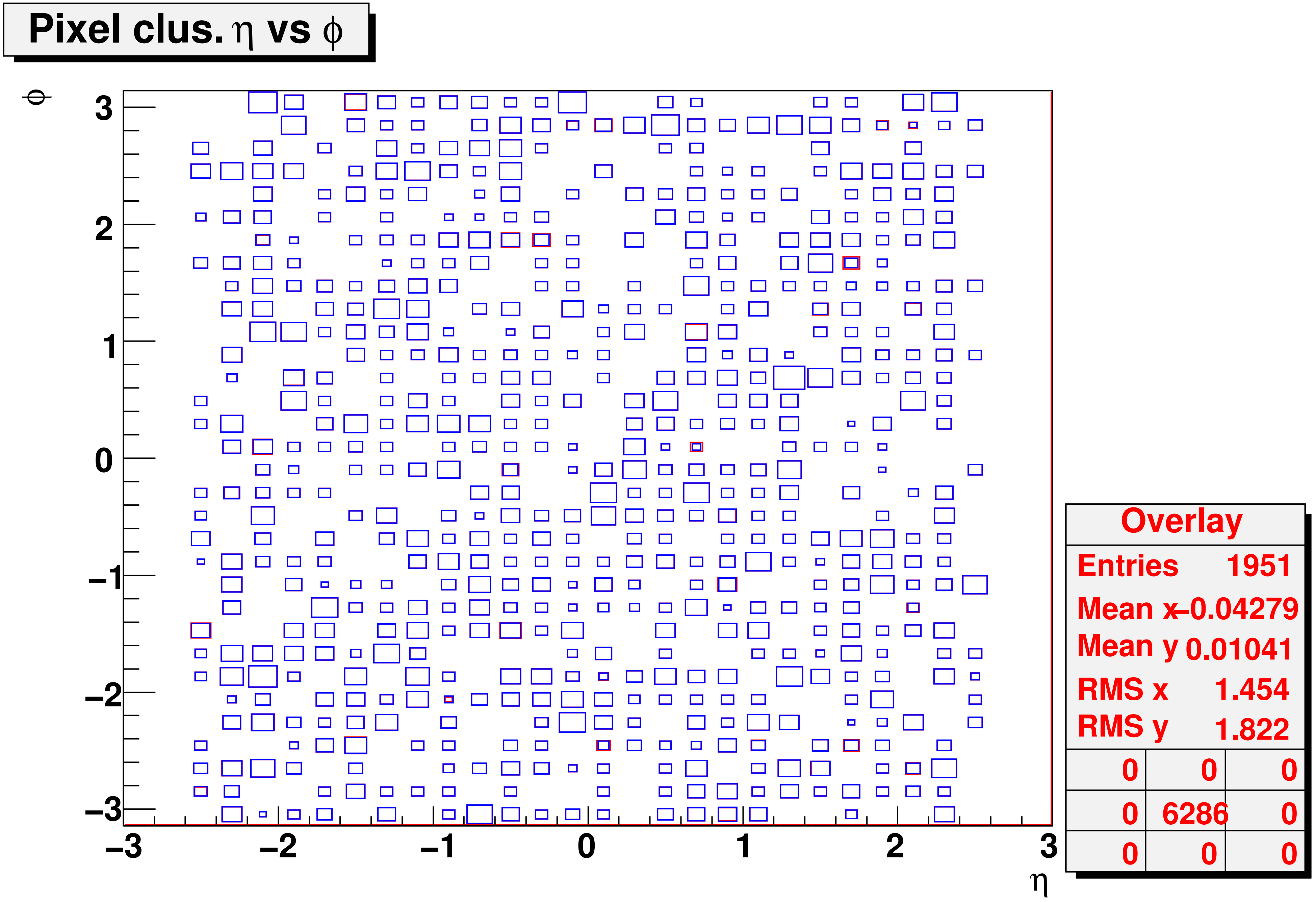


Cluster Efficiency: Pixel Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 5436
Mean 1.116
Mean y 0.9932
RMS 0.6377
RMS y 0.08222
Underflow 0
Overflow 0
Overlay
Entries 5455
Mean 1.114
Mean y 0.9923
RMS 0.6377
RMS y 0.08741
Underflow 0
Overflow 0

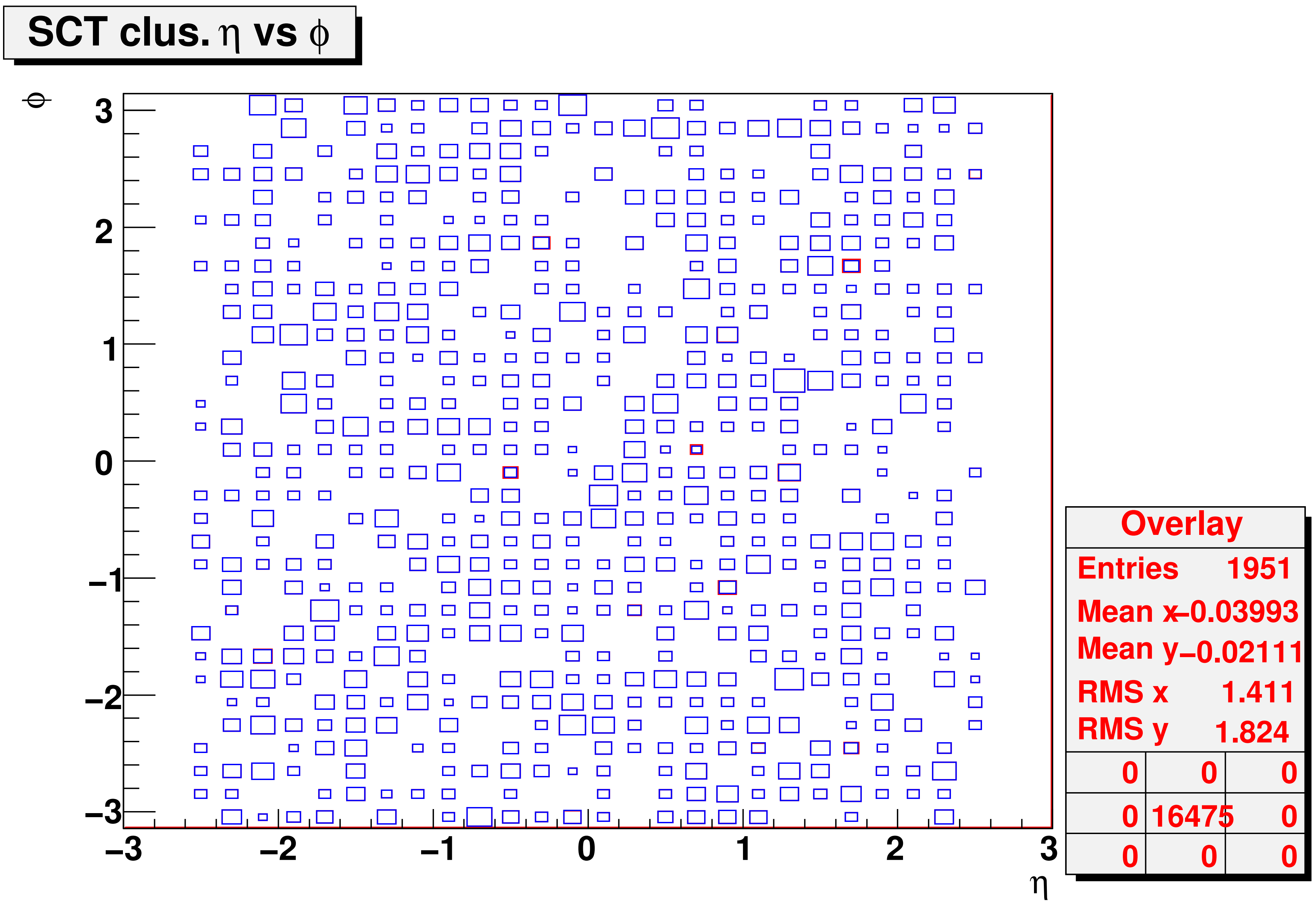

Cluster Efficiency: SCT Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
η
G4HitMerge
Entries 9336
Mean 0.72
Mean y 0.997
RMS 0.4097
RMS y 0.05468
Underflow 0
Overflow 0
Overlay
Entries 9374
Mean 0.7197
Mean y 0.9959
RMS 0.4093
RMS y 0.06354
Underflow 0
Overflow 0



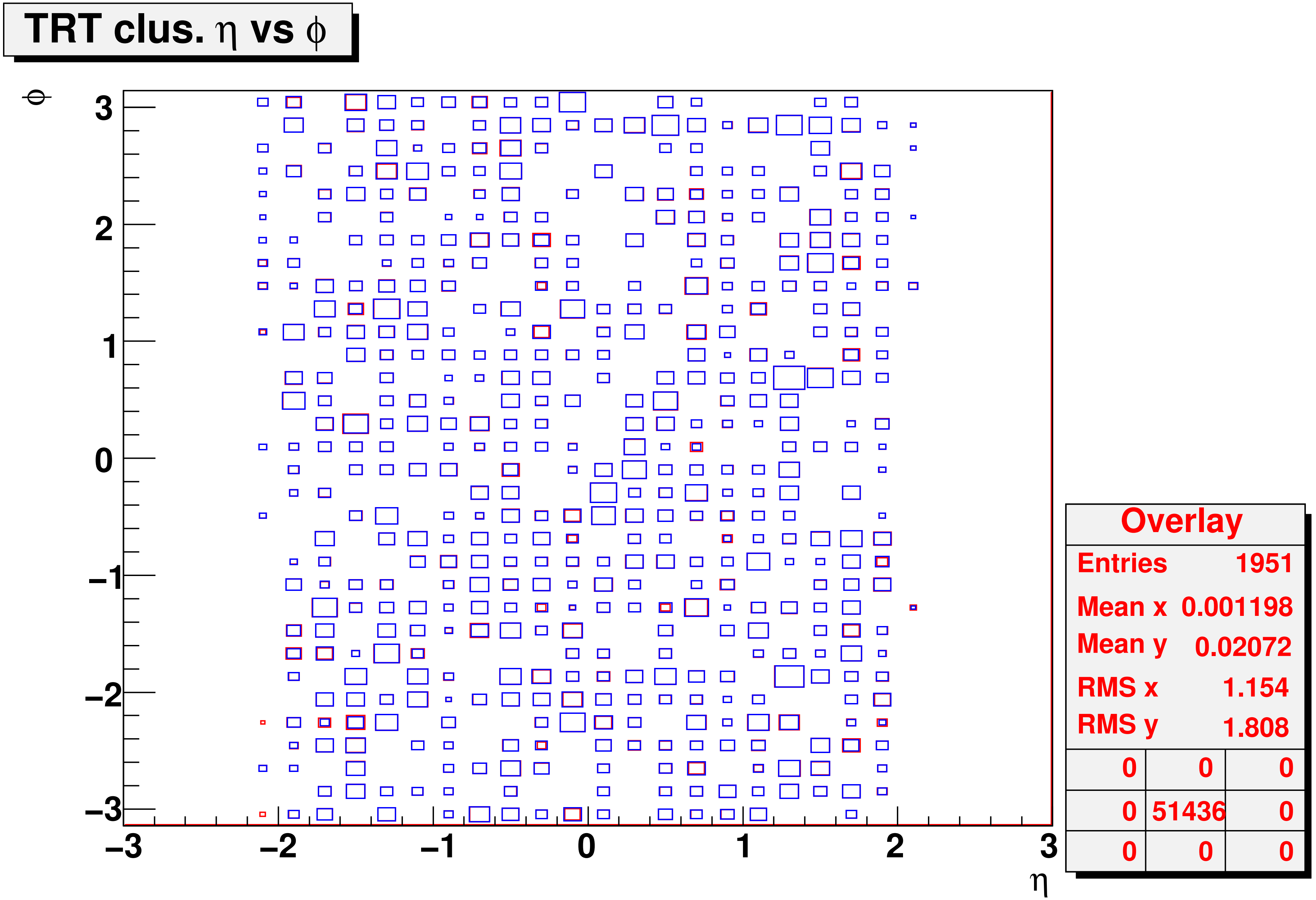
Cluster Efficiency: TRT Barrel
Hit Efficiency
η
0
0.2
0.4
0.6
0.8
1
1.2
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
G4HitMerge
Entries 23611
Mean 0.4512
Mean y 0.9552
RMS 0.2502
RMS y 0.2068
Underflow 0
Overflow 0
Overlay
Entries 23805
Mean 0.4504
Mean y 0.9445
RMS 0.2499
RMS y 0.2289
Underflow 0
Overflow 0

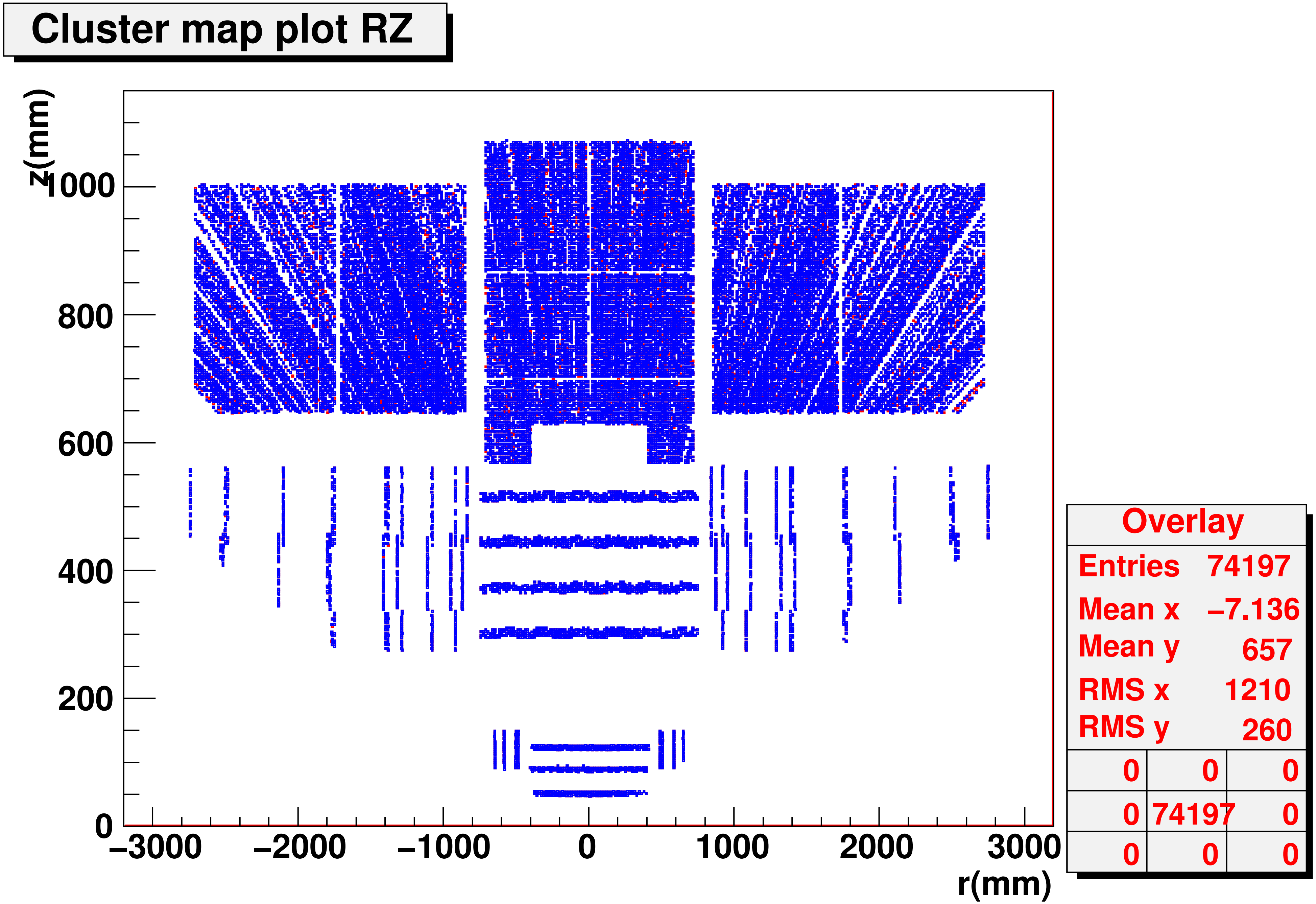


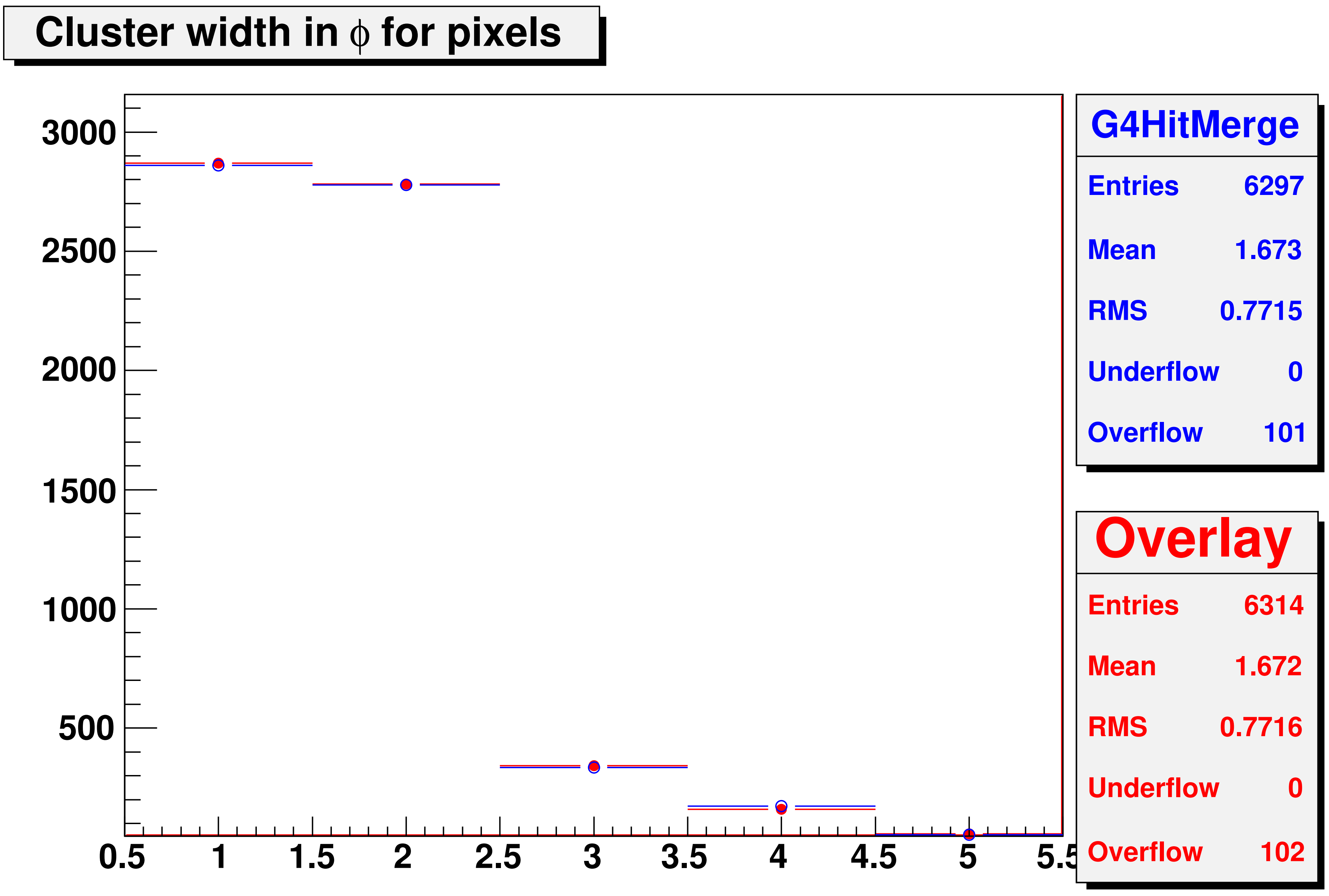
Pixel clus. η vs ϕ
ϕ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1951
Mean x −0.04279
Mean y 0.01041
RMS x 1.454
RMS y 1.822
0 0 0
0 6286 0
0 0 0



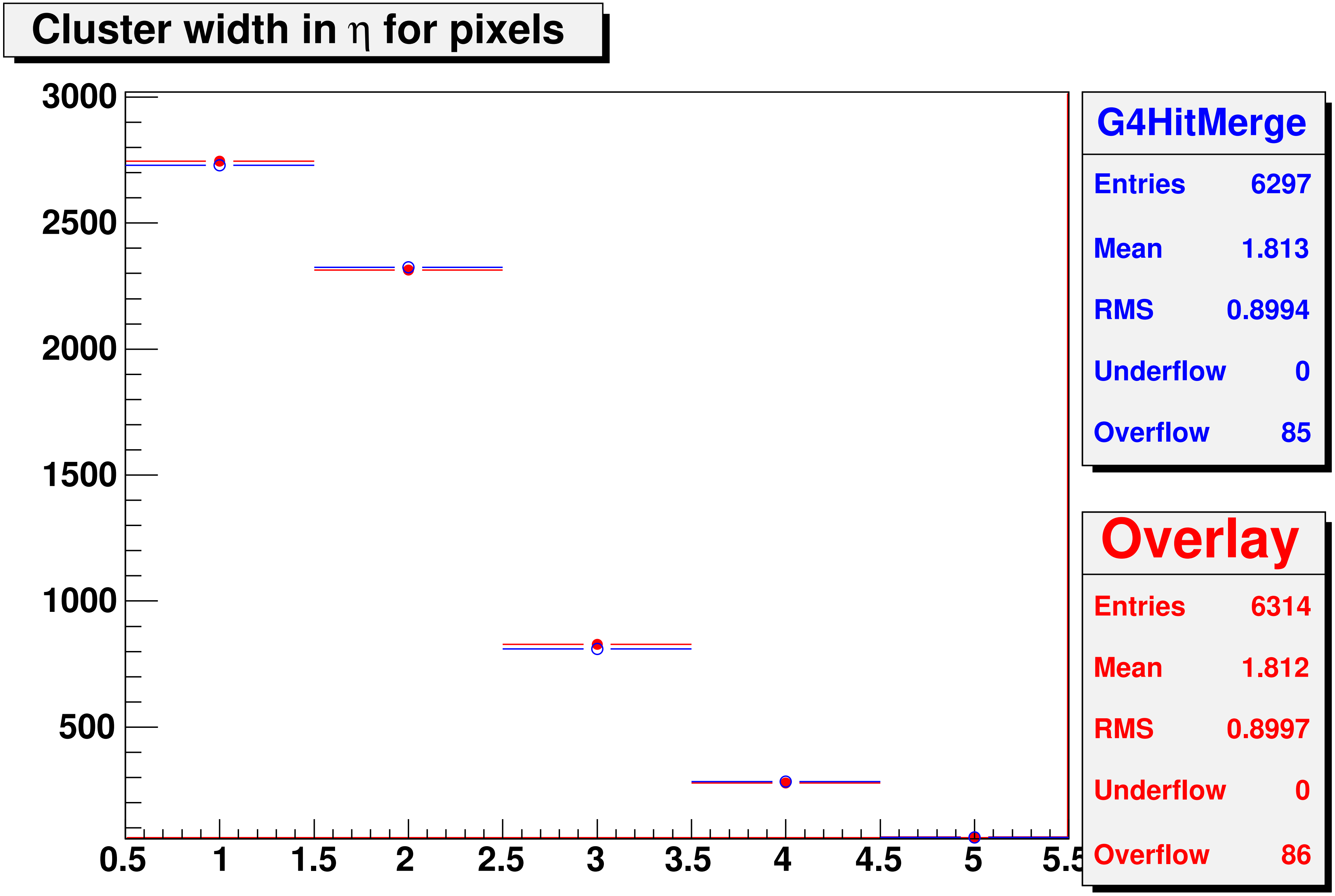
SCT clus. η vs ϕ
ϕ
3
2
1
0
−1
−2
−3
η
Overlay
Entries 1951
Mean x −0.03993
Mean y −0.02111
RMS x 1.411
RMS y 1.824
0 0 0
0 16475 0
0 0 0

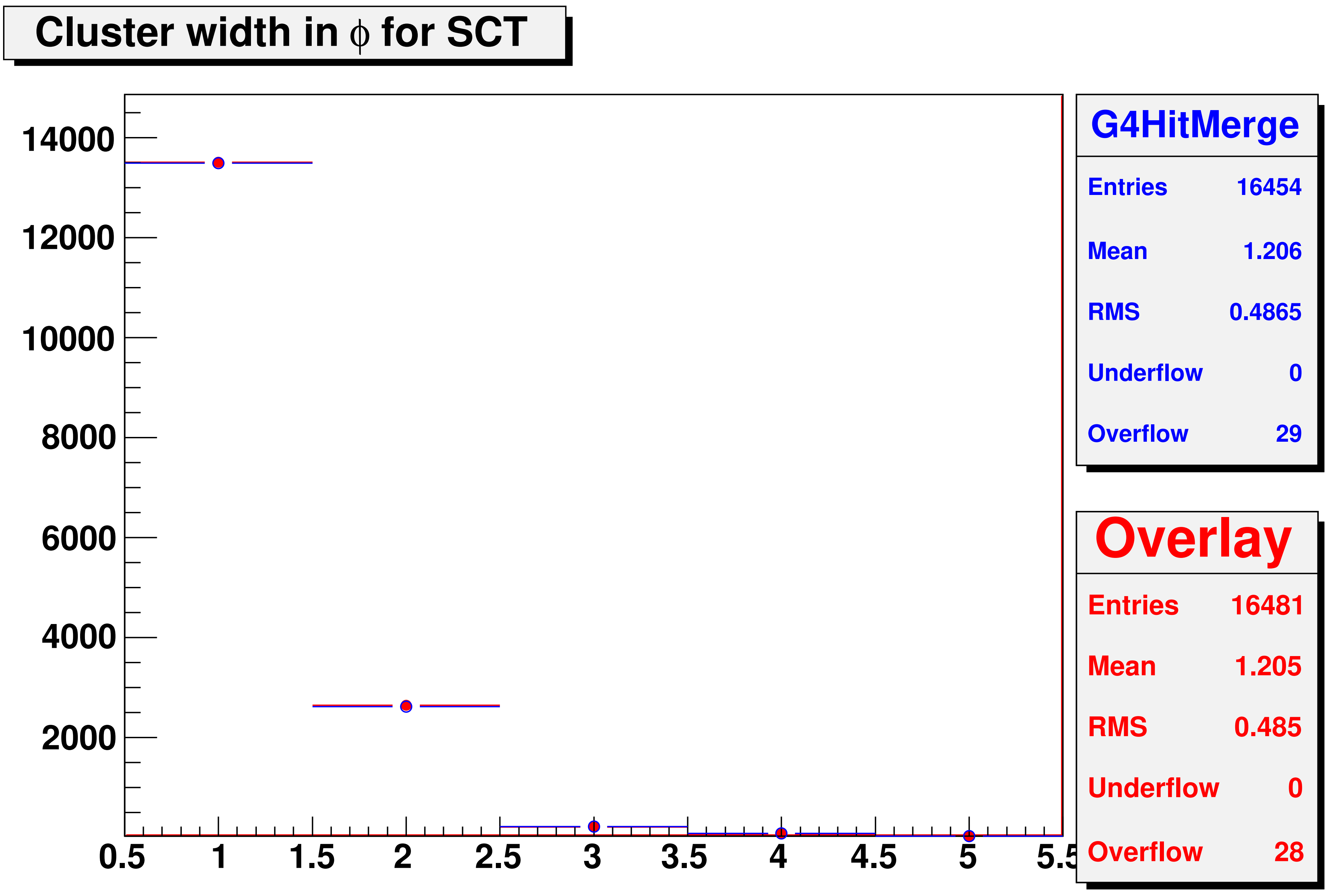

TRT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1951
Mean x 0.001198
Mean y 0.02072
RMS x 1.154
RMS y 1.808
0 0 0
0 51436 0
0 0 0

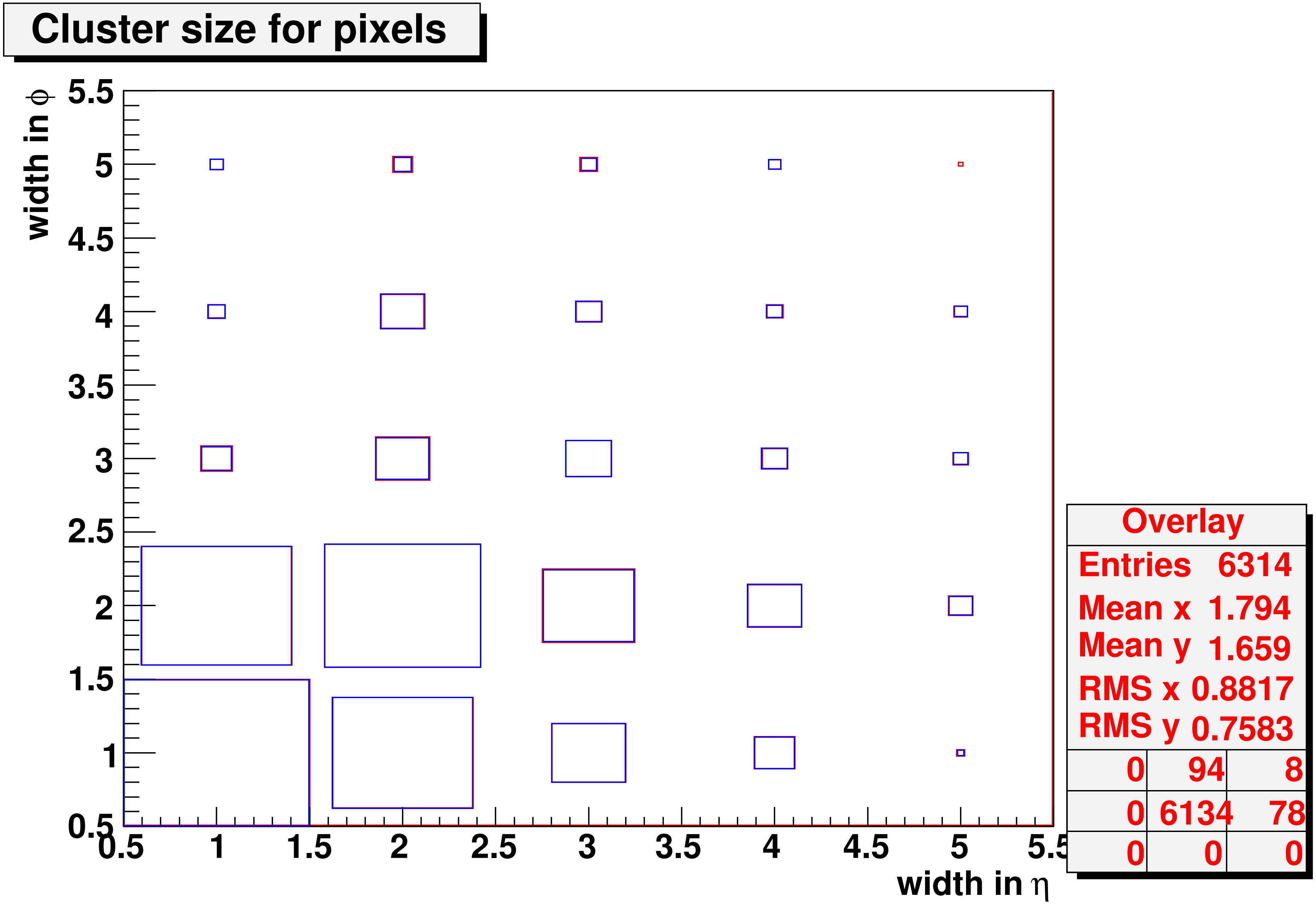

Cluster map plot RZ
z(mm)
r(mm)
0
200
400
600
800
1000
-3000
-2000
-1000
0
1000
2000
3000
Overlay
Entries 74197
Mean x -7.136
Mean y 657
RMS x 1210
RMS y 260
0 0 0
0 74197 0
0 0 0

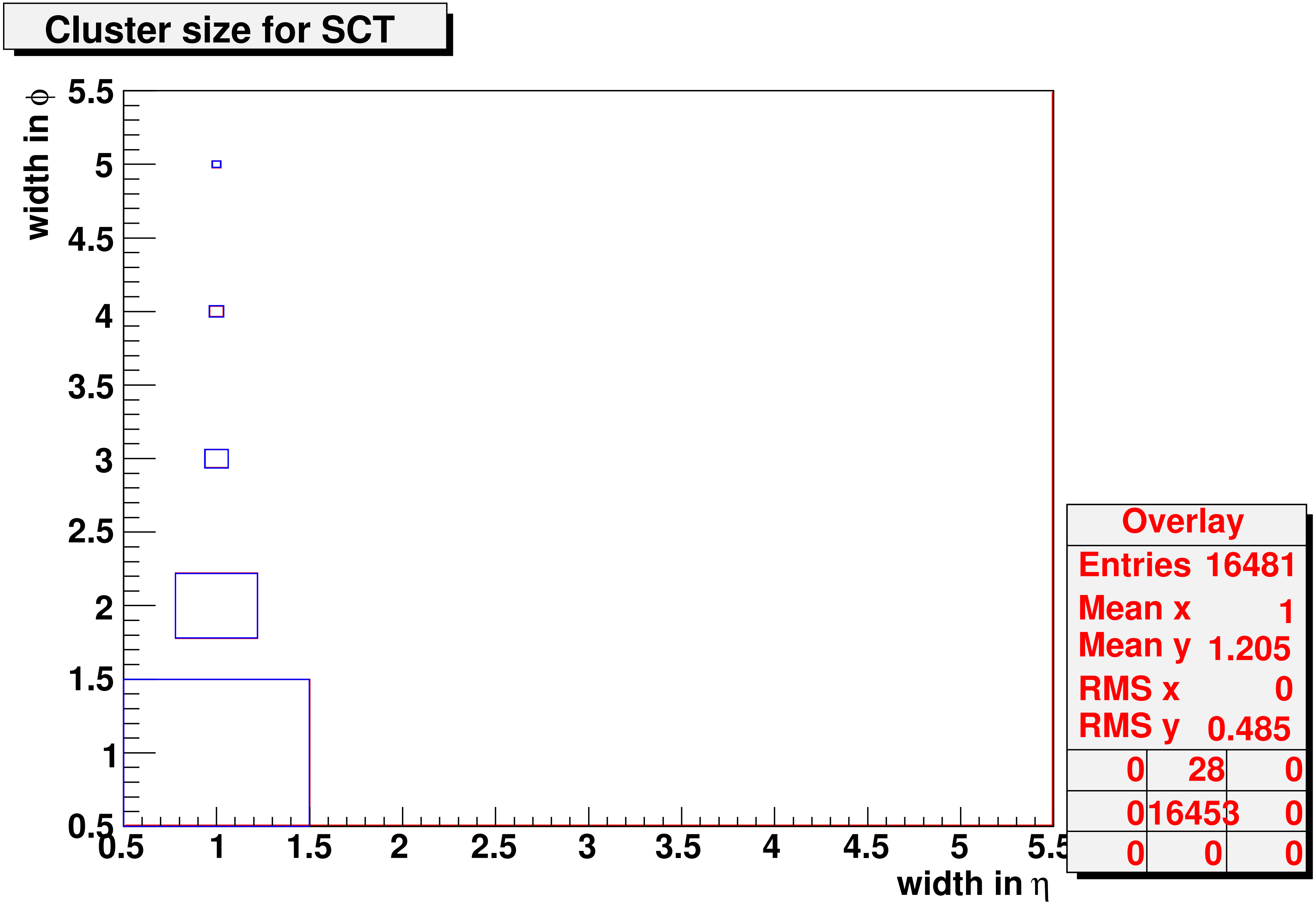


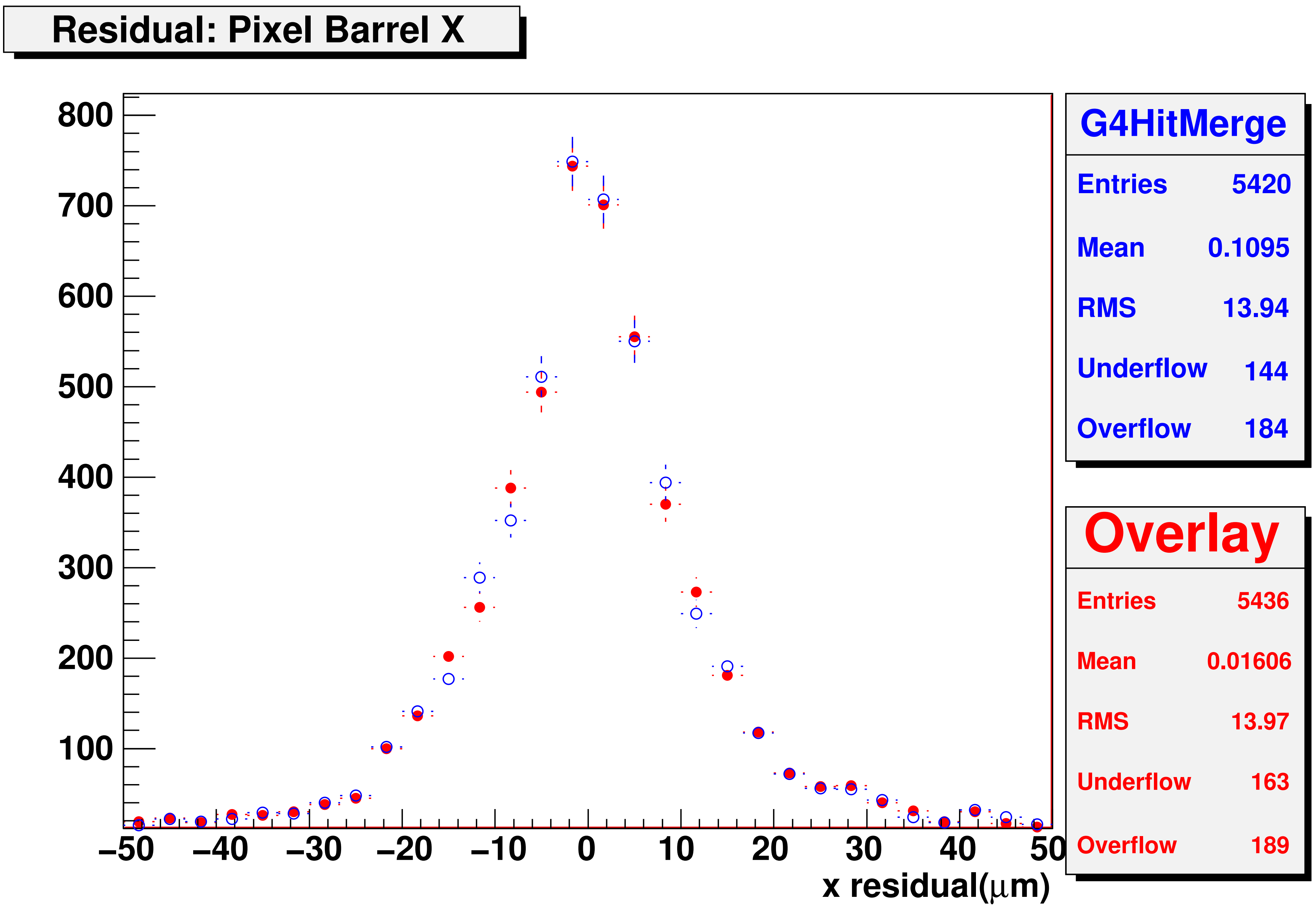
Cluster width in ϕ for pixels
3000
2500
2000
1500
1000
500
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 6297
Mean 1.673
RMS 0.7715
Underflow 0
Overflow 101
Overlay
Entries 6314
Mean 1.672
RMS 0.7716
Underflow 0
Overflow 102


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 6297
Mean 1.813
RMS 0.8994
Underflow 0
Overflow 85
Overlay
Entries 6314
Mean 1.812
RMS 0.8997
Underflow 0
Overflow 86

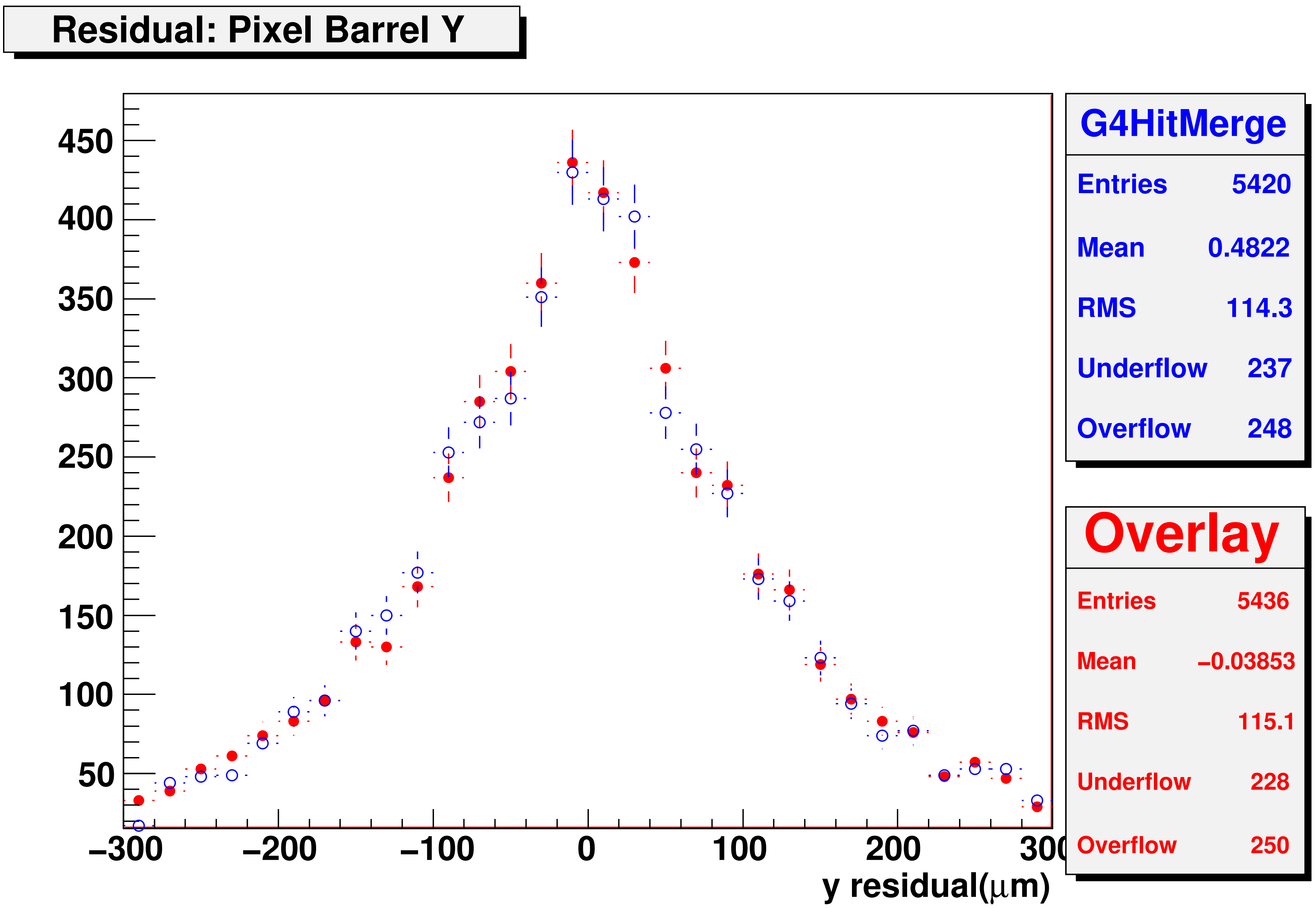

Cluster width in ϕ for SCT
14000
12000
10000
8000
6000
4000
2000
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 16454
Mean 1.206
RMS 0.4865
Underflow 0
Overflow 29
Overlay
Entries 16481
Mean 1.205
RMS 0.485
Underflow 0
Overflow 28

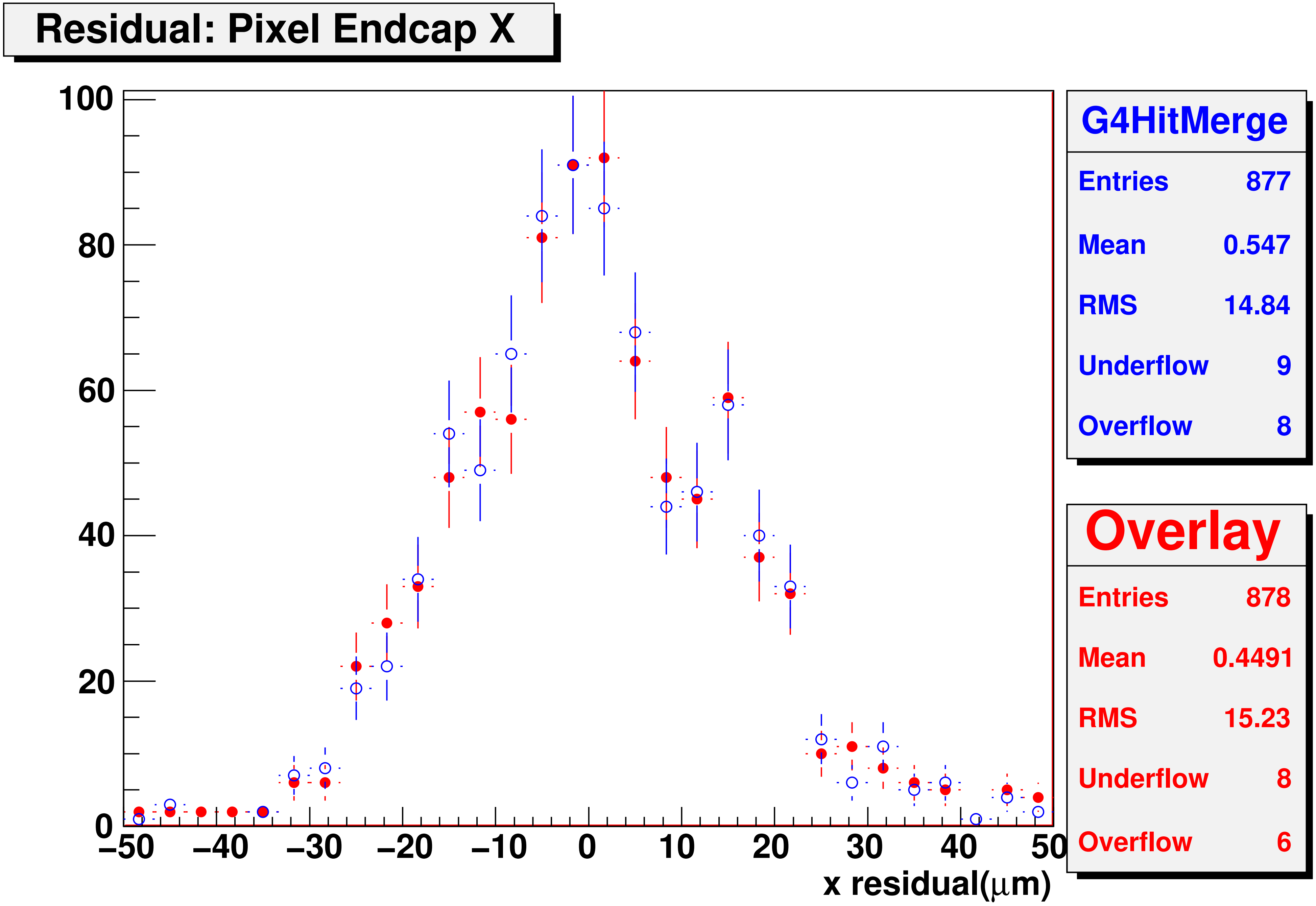

Cluster size for pixels
width in ϕ
width in η
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 6314
Mean x 1.794
Mean y 1.659
RMS x 0.8817
RMS y 0.7583
0 94 8
0 6134 78
0 0 0


Cluster size for SCT
width in ϕ
width in η
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
Overlay
Entries 16481
Mean x 1
Mean y 1.205
RMS x 0
RMS y 0.485
0 28 0
0 16453 0
0 0 0

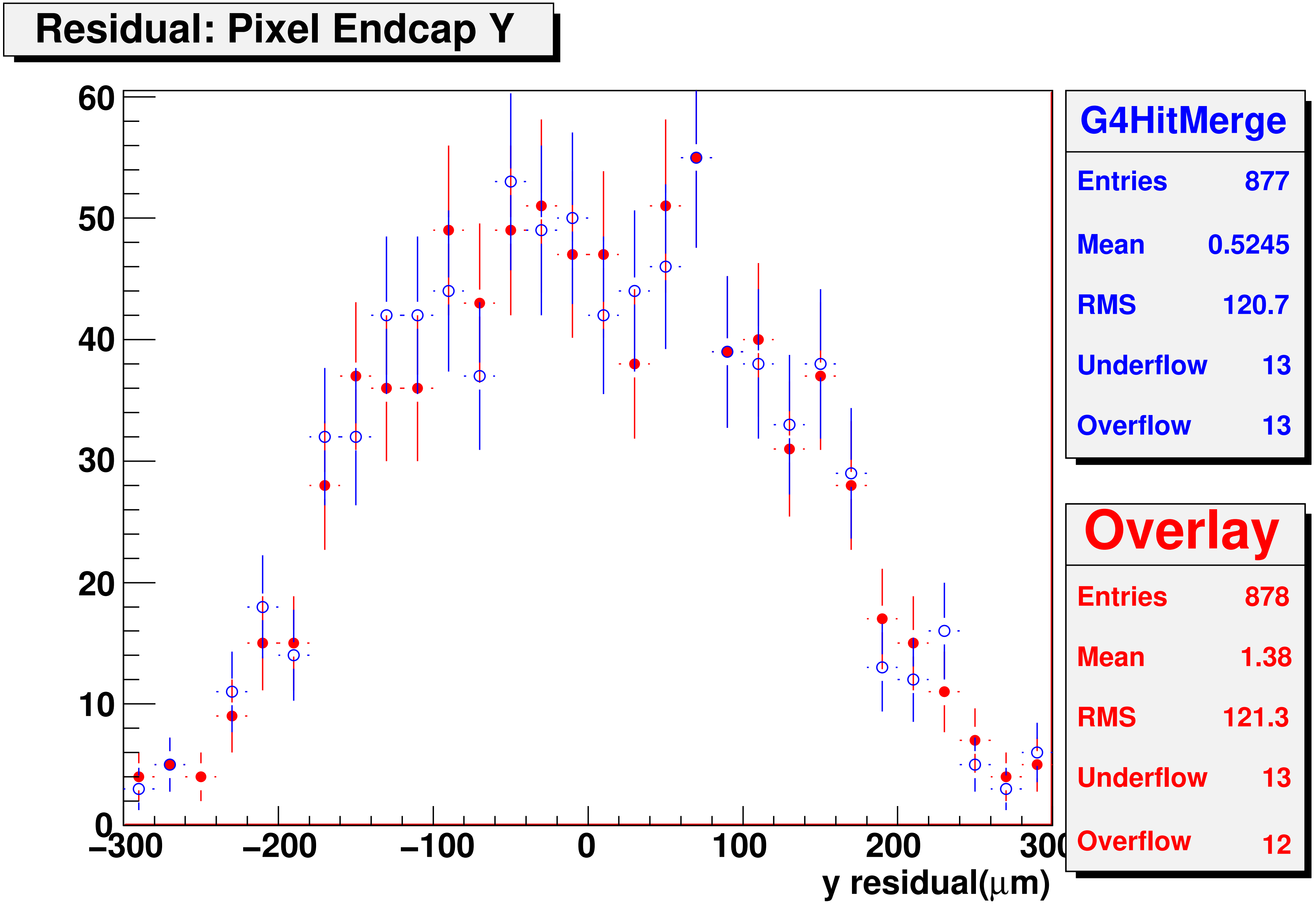


Residual: Pixel Barrel X
800
700
600
500
400
300
200
100
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 5420
Mean 0.1095
RMS 13.94
Underflow 144
Overflow 184
Overlay
Entries 5436
Mean 0.01606
RMS 13.97
Underflow 163
Overflow 189

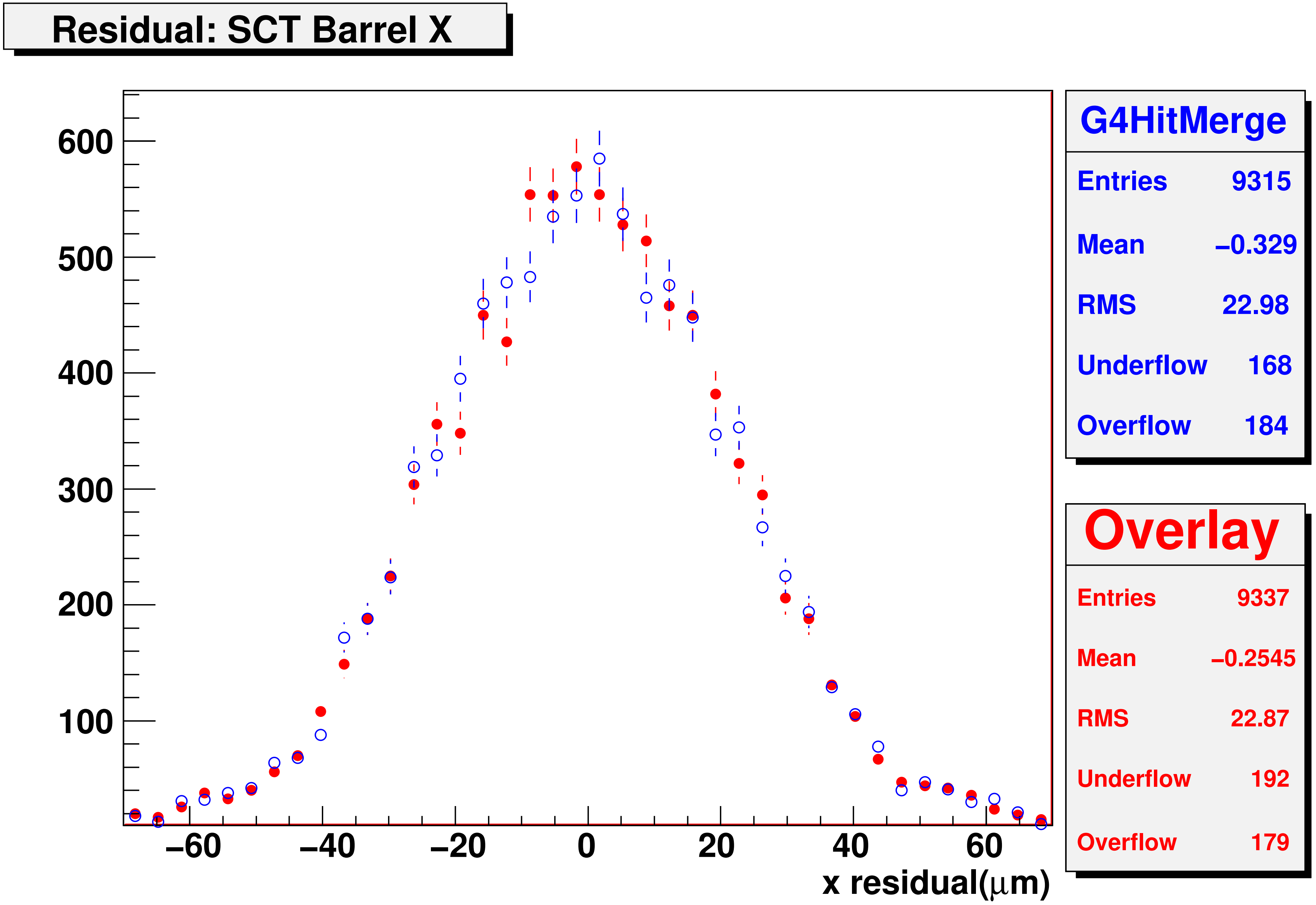

Residual: Pixel Barrel Y
G4HitMerge
Entries 5420
Mean 0.4822
RMS 114.3
Underflow 237
Overflow 248
Overlay
Entries 5436
Mean –0.03853
RMS 115.1
Underflow 228
Overflow 250
450
400
350
300
250
200
150
100
50
–300
–200
–100
0
100
200
300
y residual(μm)



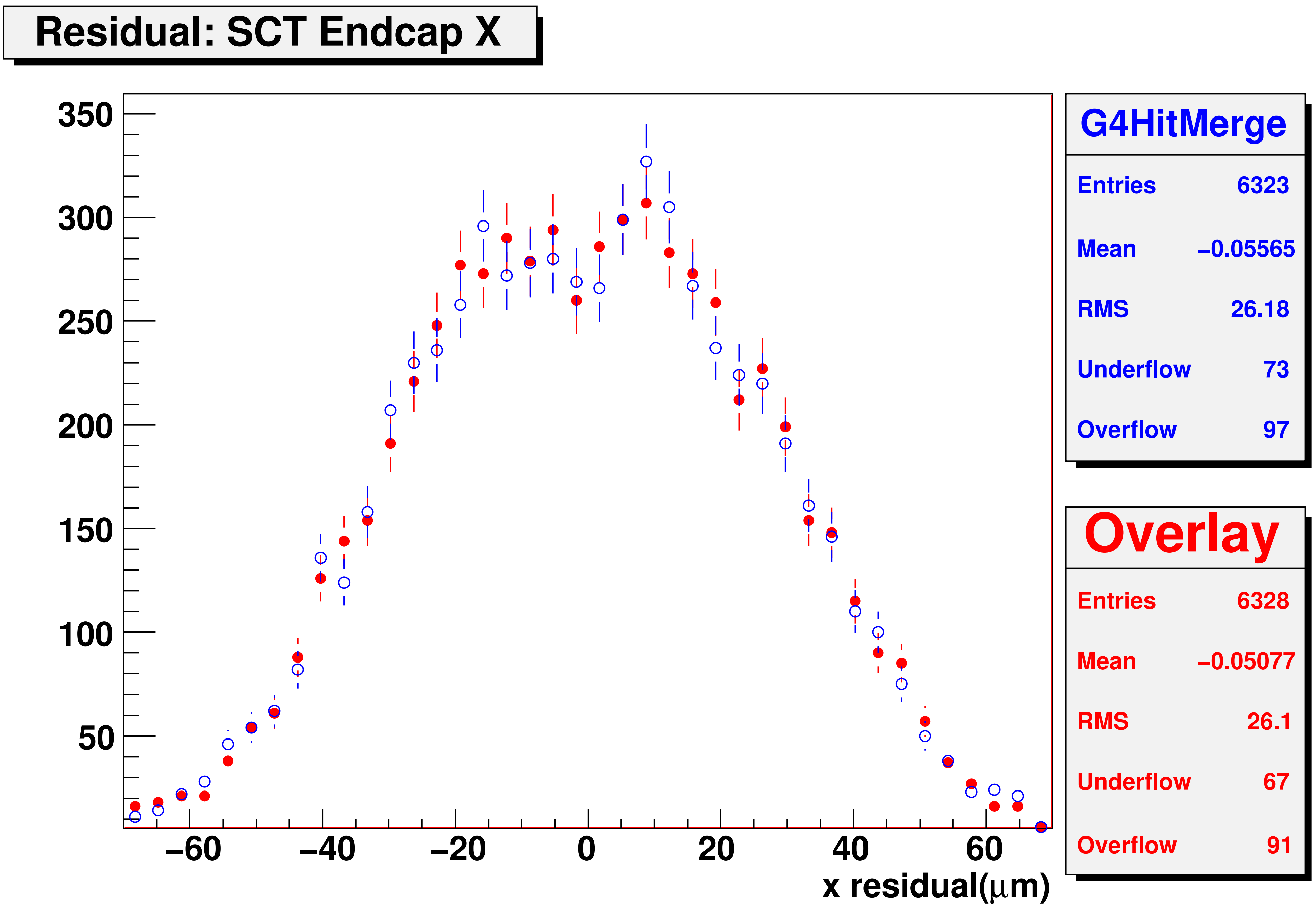
Residual: Pixel Endcap X
G4HitMerge
Entries 877
Mean 0.547
RMS 14.84
Underflow 9
Overflow 8
Overlay
Entries 878
Mean 0.4491
RMS 15.23
Underflow 8
Overflow 6
100
80
60
40
20
0
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)

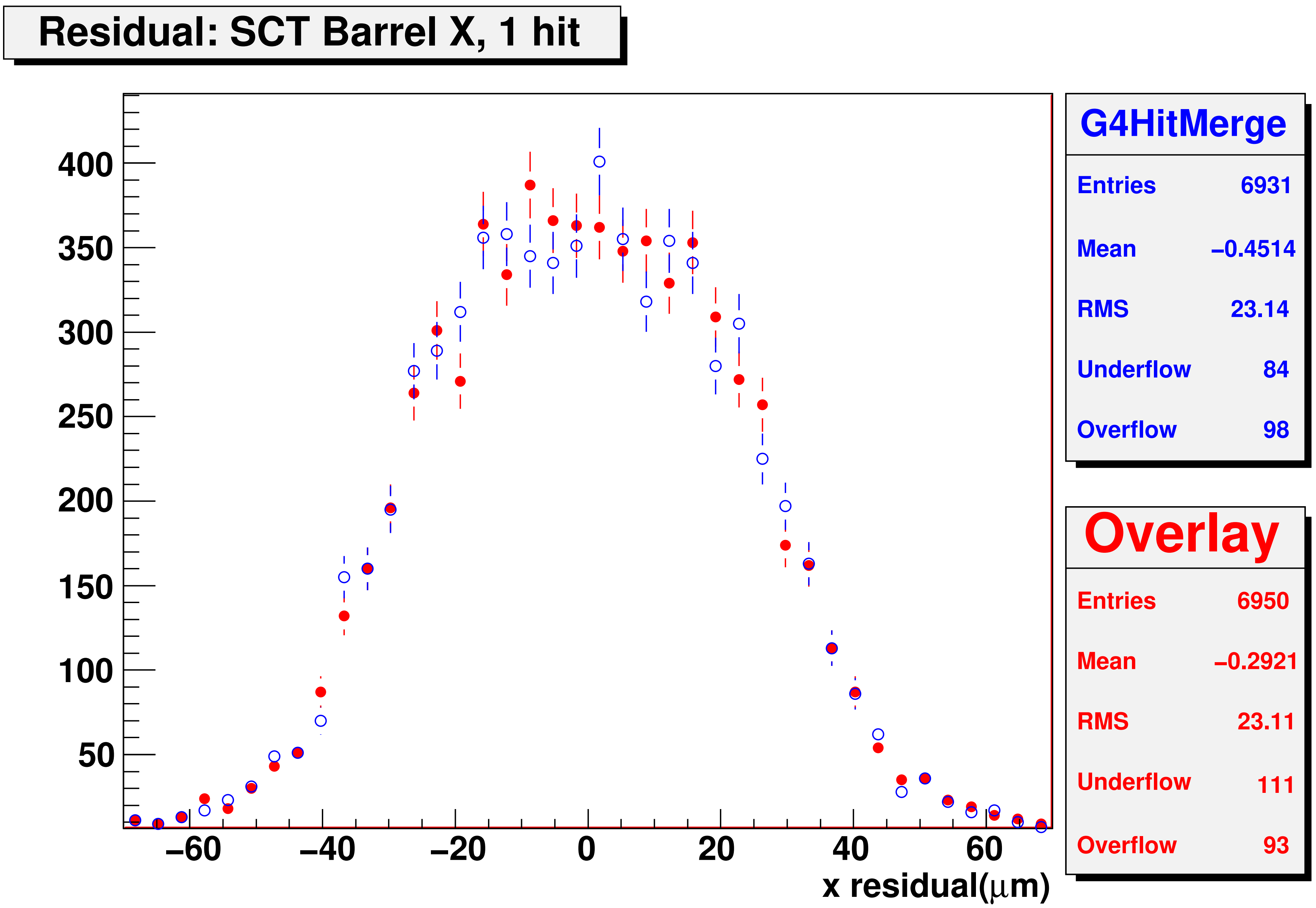


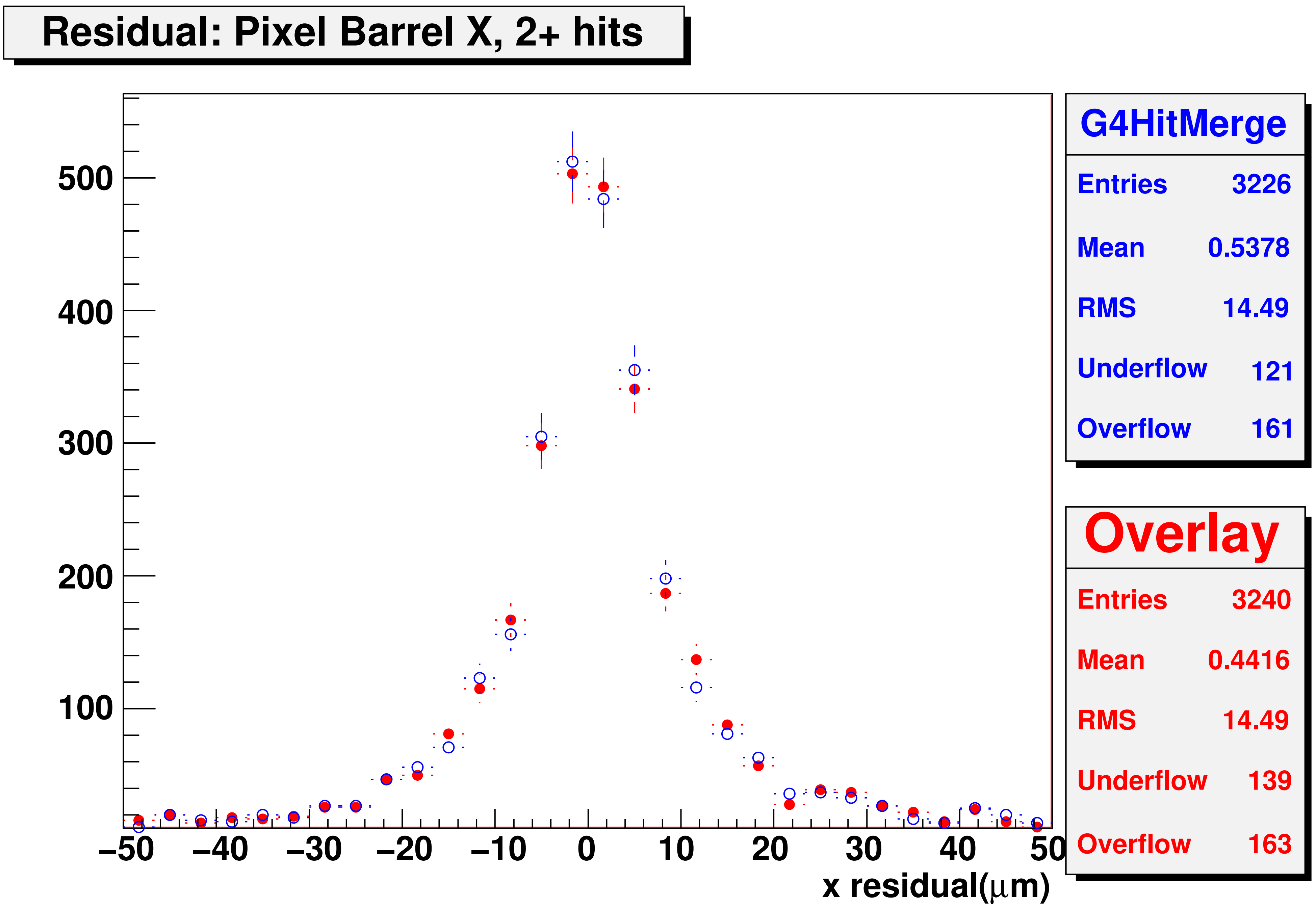
Residual: Pixel Endcap Y
G4HitMerge
Entries 877
Mean 0.5245
RMS 120.7
Underflow 13
Overflow 13
Overlay
Entries 878
Mean 1.38
RMS 121.3
Underflow 13
Overflow 12
y residual(μm)
0
10
20
30
40
50
60
–300
–200
–100
0
100
200
300

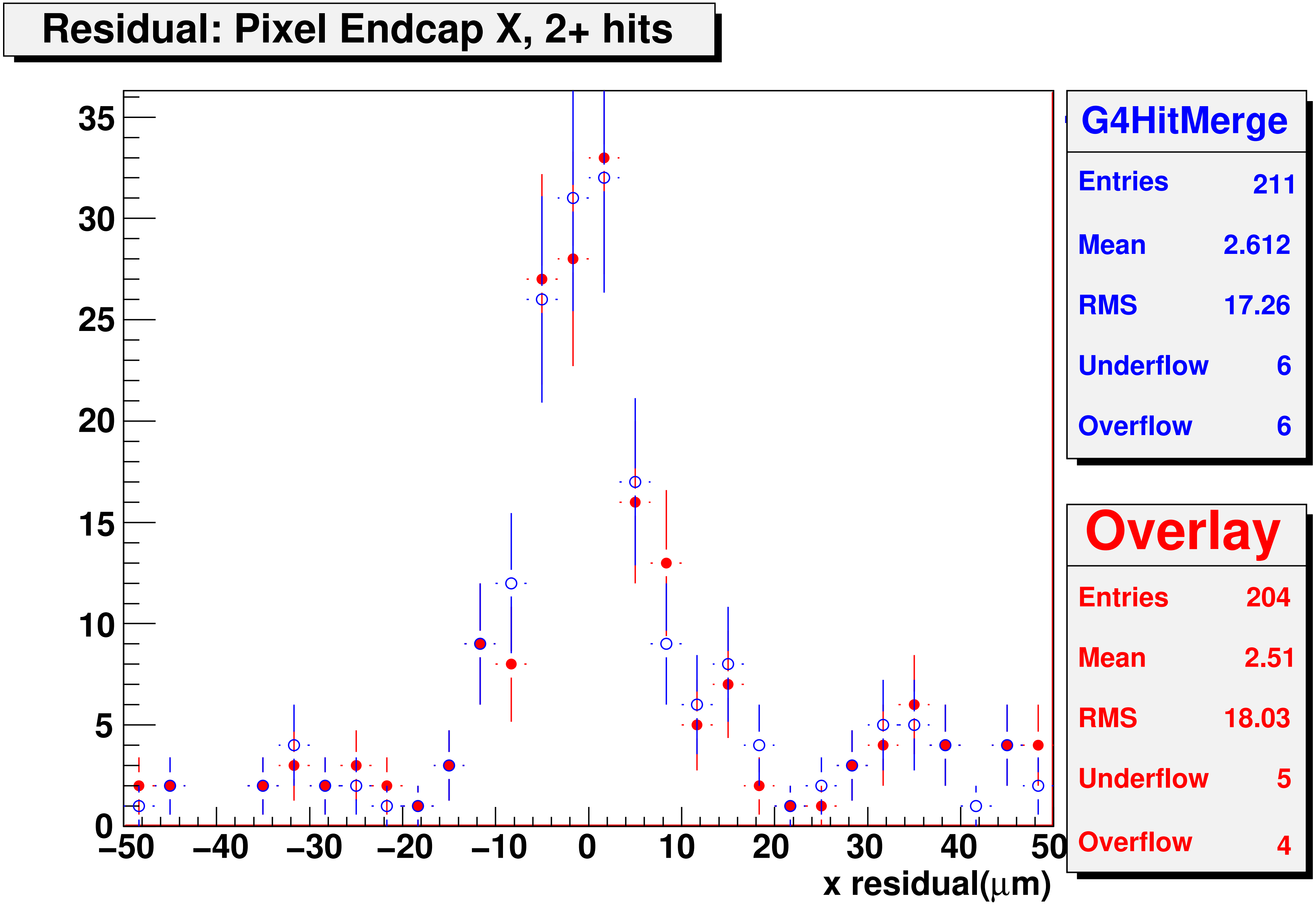


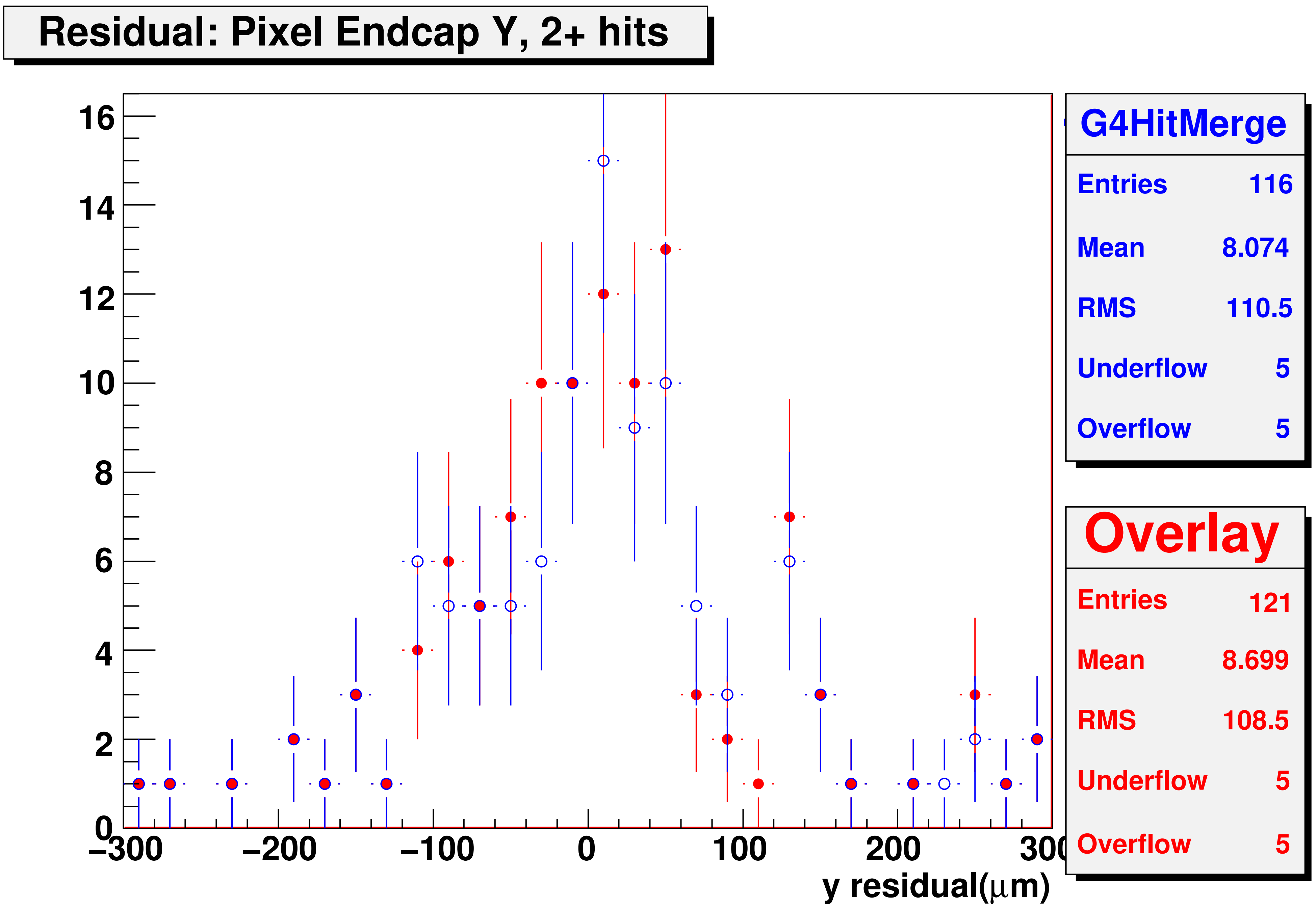
Residual: SCT Barrel X
600
500
400
300
200
100
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 9315
Mean −0.329
RMS 22.98
Underflow 168
Overflow 184
Overlay
Entries 9337
Mean −0.2545
RMS 22.87
Underflow 192
Overflow 179


Residual: SCT Endcap X
350
300
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 6323
Mean −0.05565
RMS 26.18
Underflow 73
Overflow 97
Overlay
Entries 6328
Mean −0.05077
RMS 26.1
Underflow 67
Overflow 91

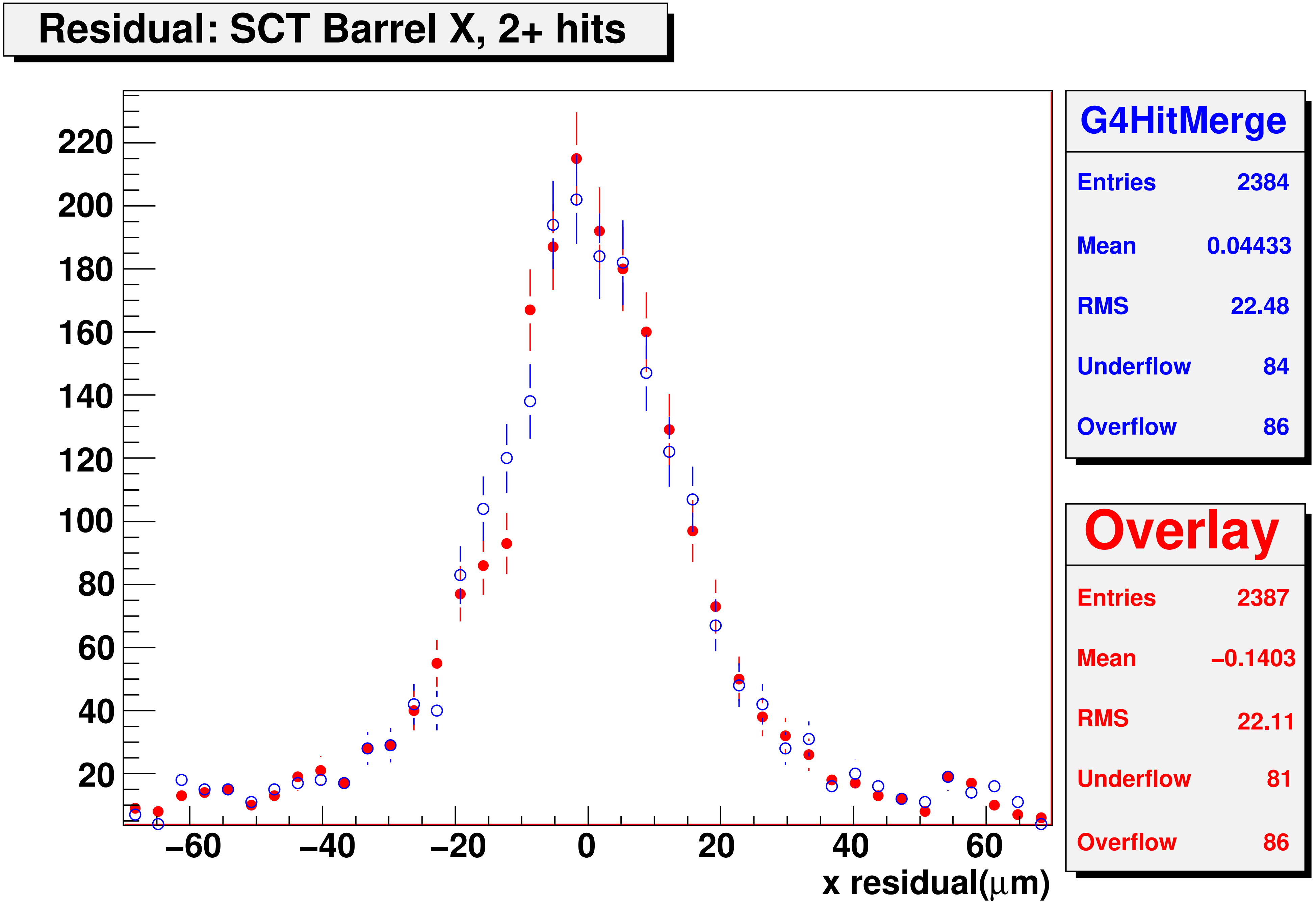

Residual: SCT Barrel X, 1 hit
400
350
300
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 6931
Mean −0.4514
RMS 23.14
Underflow 84
Overflow 98
Overlay
Entries 6950
Mean −0.2921
RMS 23.11
Underflow 111
Overflow 93

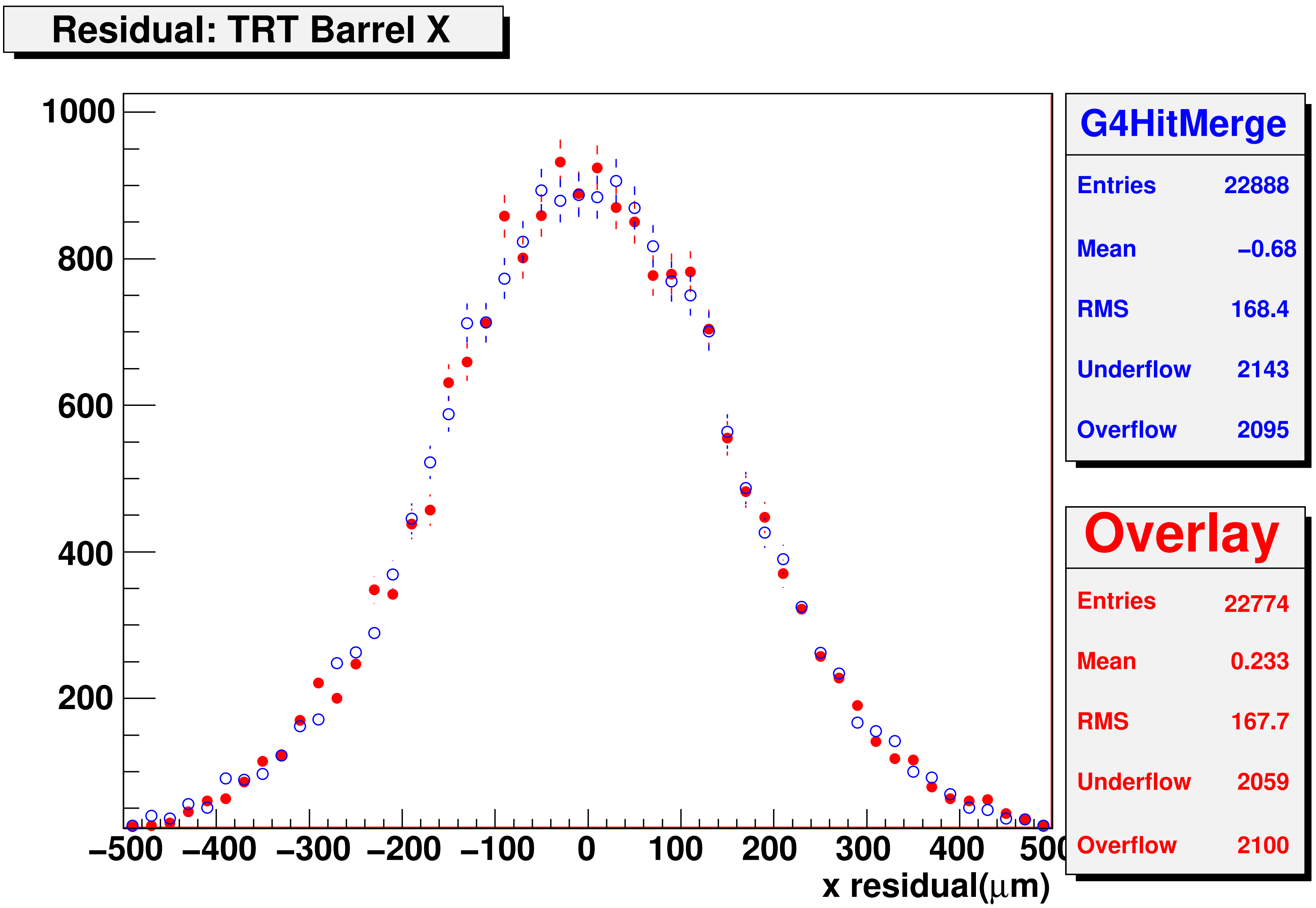

Residual: Pixel Barrel X, 2+ hits
G4HitMerge
Entries 3226
Mean 0.5378
RMS 14.49
Underflow 121
Overflow 161
Overlay
Entries 3240
Mean 0.4416
RMS 14.49
Underflow 139
Overflow 163
500
400
300
200
100
−50 −40 −30 −20 −10 0 10 20 30 40 50
x residual(μm)


Residual: Pixel Endcap X, 2+ hits
G4HitMerge
Entries 211
Mean 2.612
RMS 17.26
Underflow 6
Overflow 6
Overlay
Entries 204
Mean 2.51
RMS 18.03
Underflow 5
Overflow 4
0
5
10
15
20
25
30
35
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)

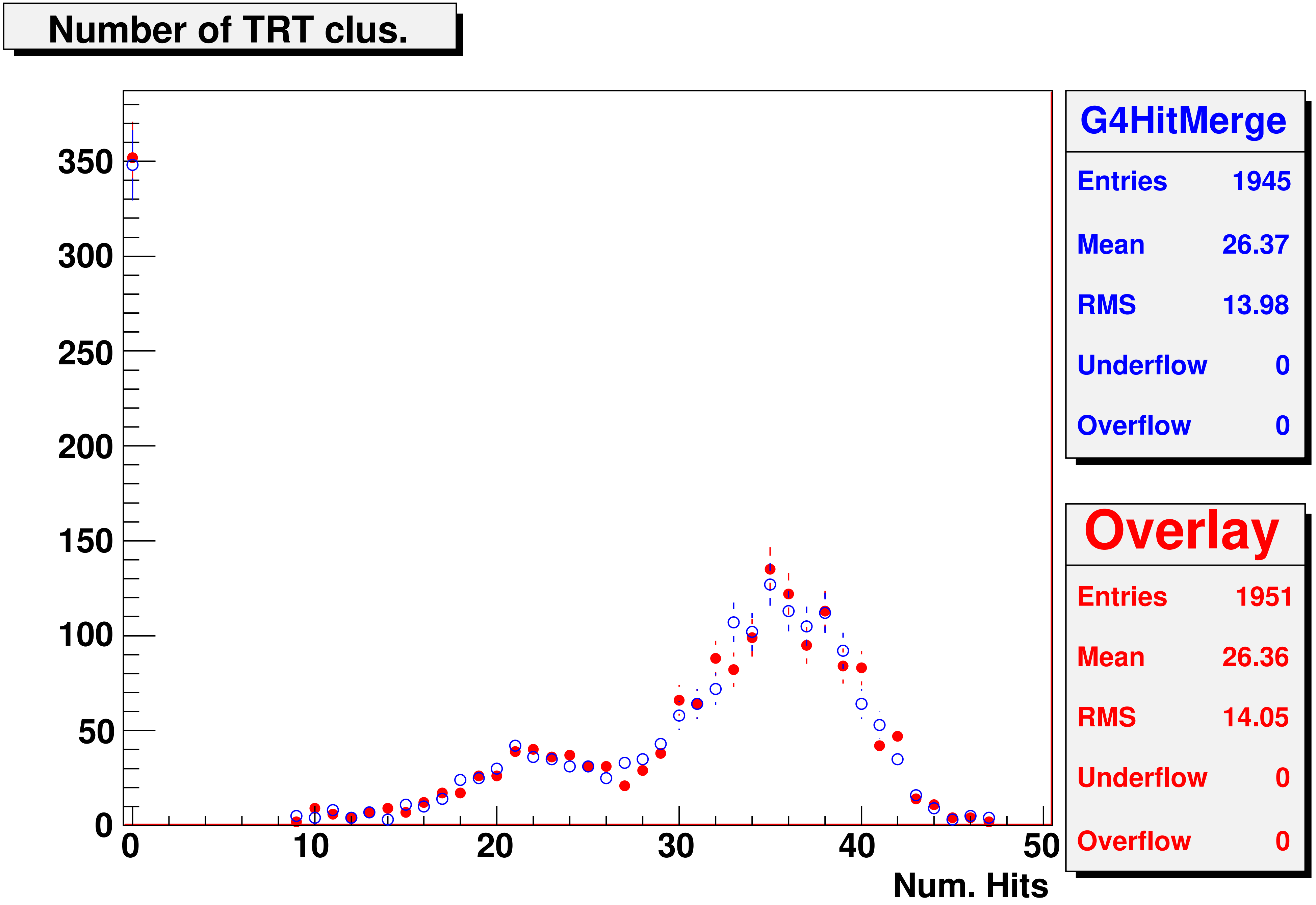


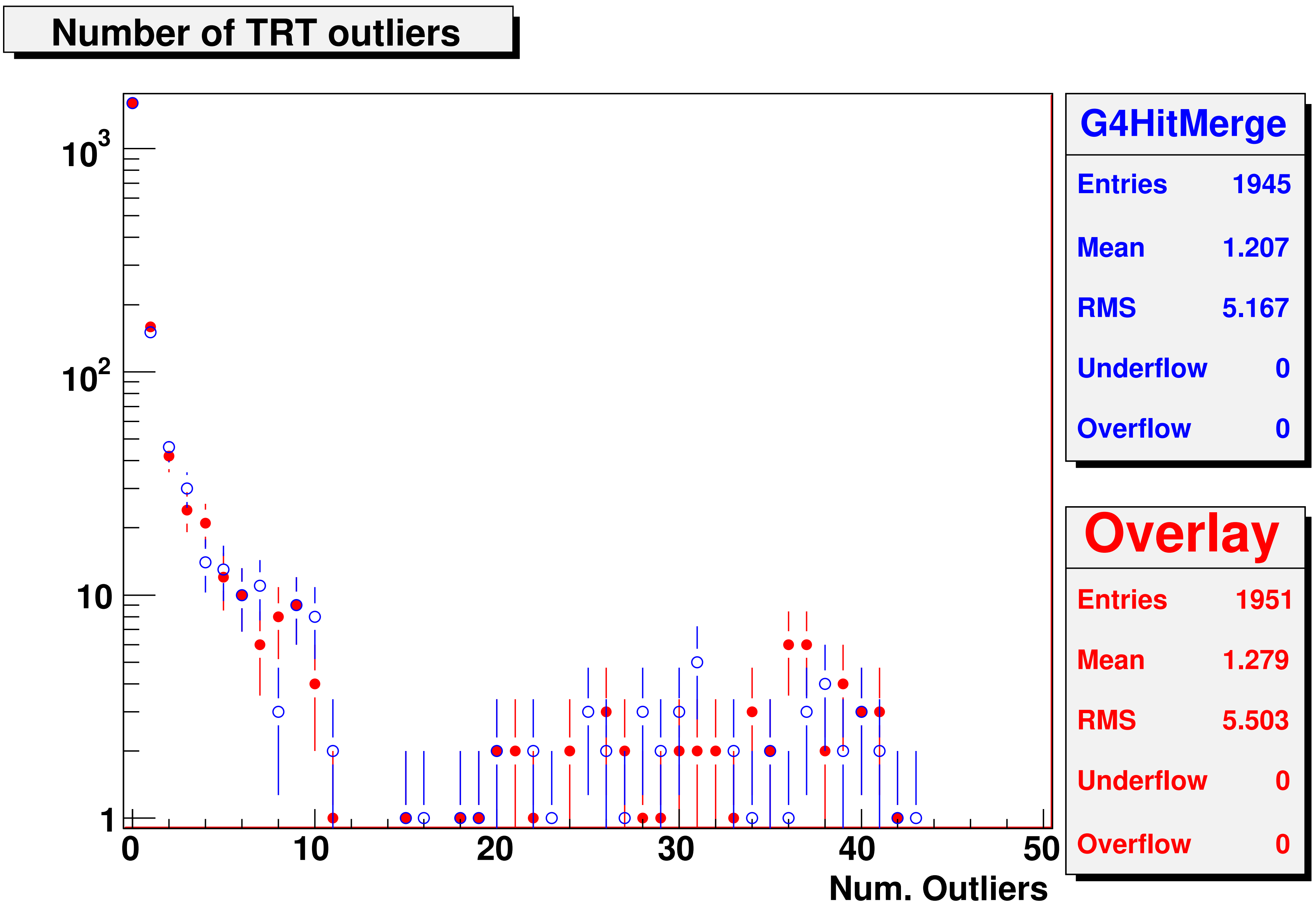
Residual: Pixel Endcap Y, 2+ hits
G4HitMerge
Entries 116
Mean 8.074
RMS 110.5
Underflow 5
Overflow 5
Overlay
Entries 121
Mean 8.699
RMS 108.5
Underflow 5
Overflow 5
y residual(μm)


Residual: SCT Barrel X, 2+ hits
G4HitMerge
Entries 2384
Mean 0.04433
RMS 22.48
Underflow 84
Overflow 86
Overlay
Entries 2387
Mean -0.1403
RMS 22.11
Underflow 81
Overflow 86
220
200
180
160
140
120
100
80
60
40
20
-60
-40
-20
0
20
40
60
x residual(μm)

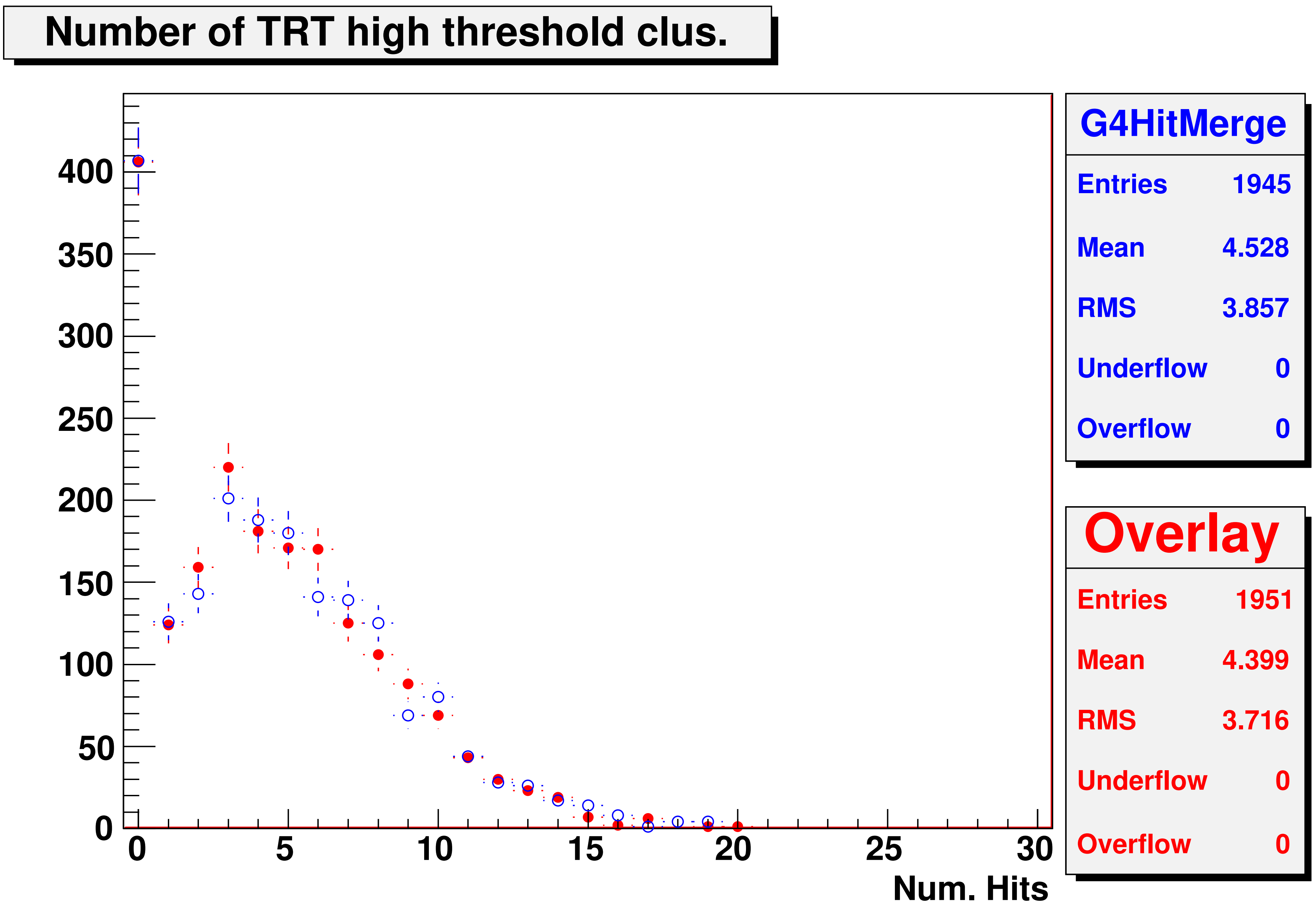


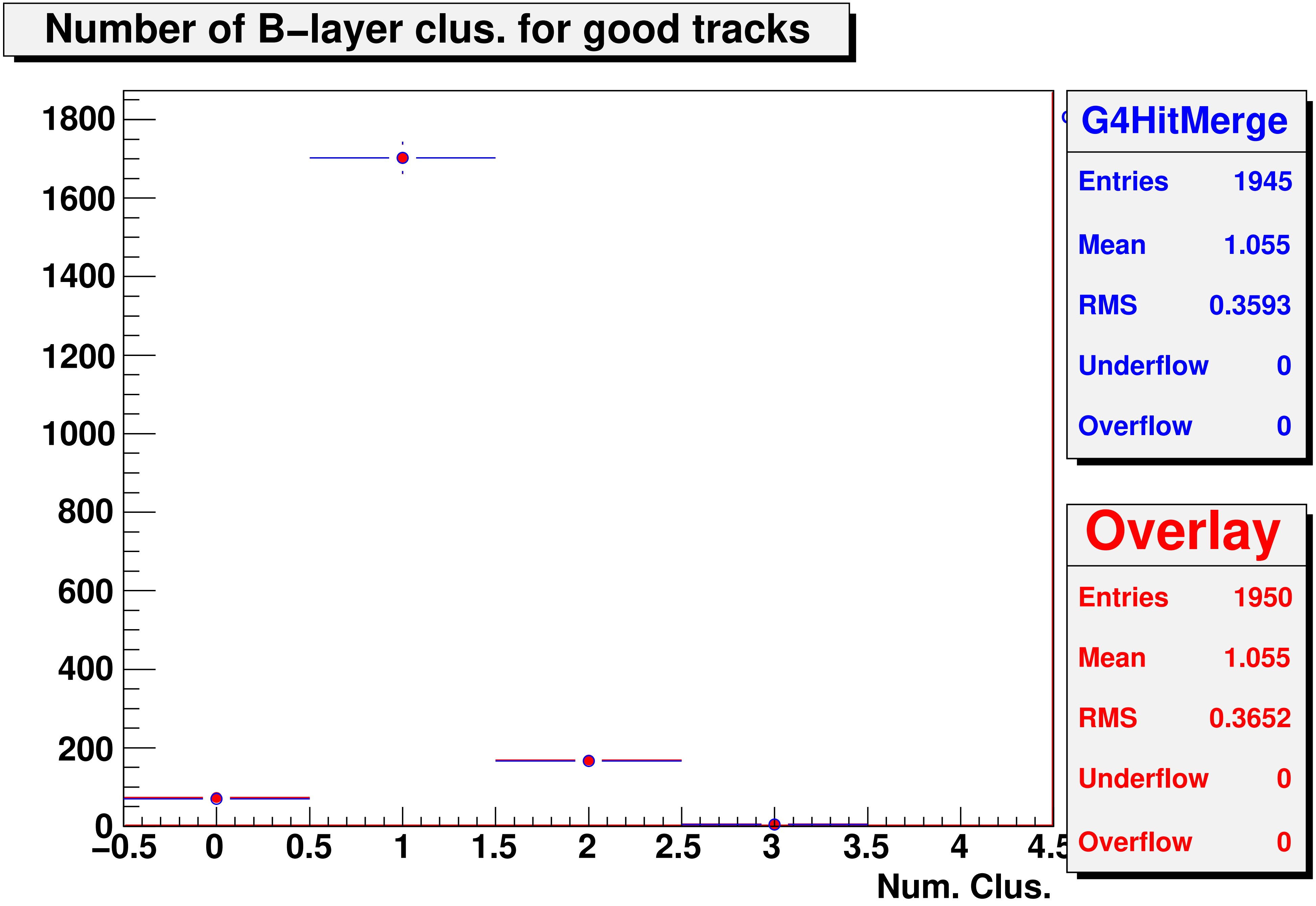
Residual: TRT Barrel X
1000
800
600
400
200
–500
–400
–300
–200
–100
0
100
200
300
400
500
x residual(μm)
G4HitMerge
Entries 22888
Mean –0.68
RMS 168.4
Underflow 2143
Overflow 2095
Overlay
Entries 22774
Mean 0.233
RMS 167.7
Underflow 2059
Overflow 2100


Number of TRT clus.
G4HitMerge
Entries 1945
Mean 26.37
RMS 13.98
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean 26.36
RMS 14.05
Underflow 0
Overflow 0
350
300
250
200
150
100
50
0
0
10
20
30
40
50
Num. Hits

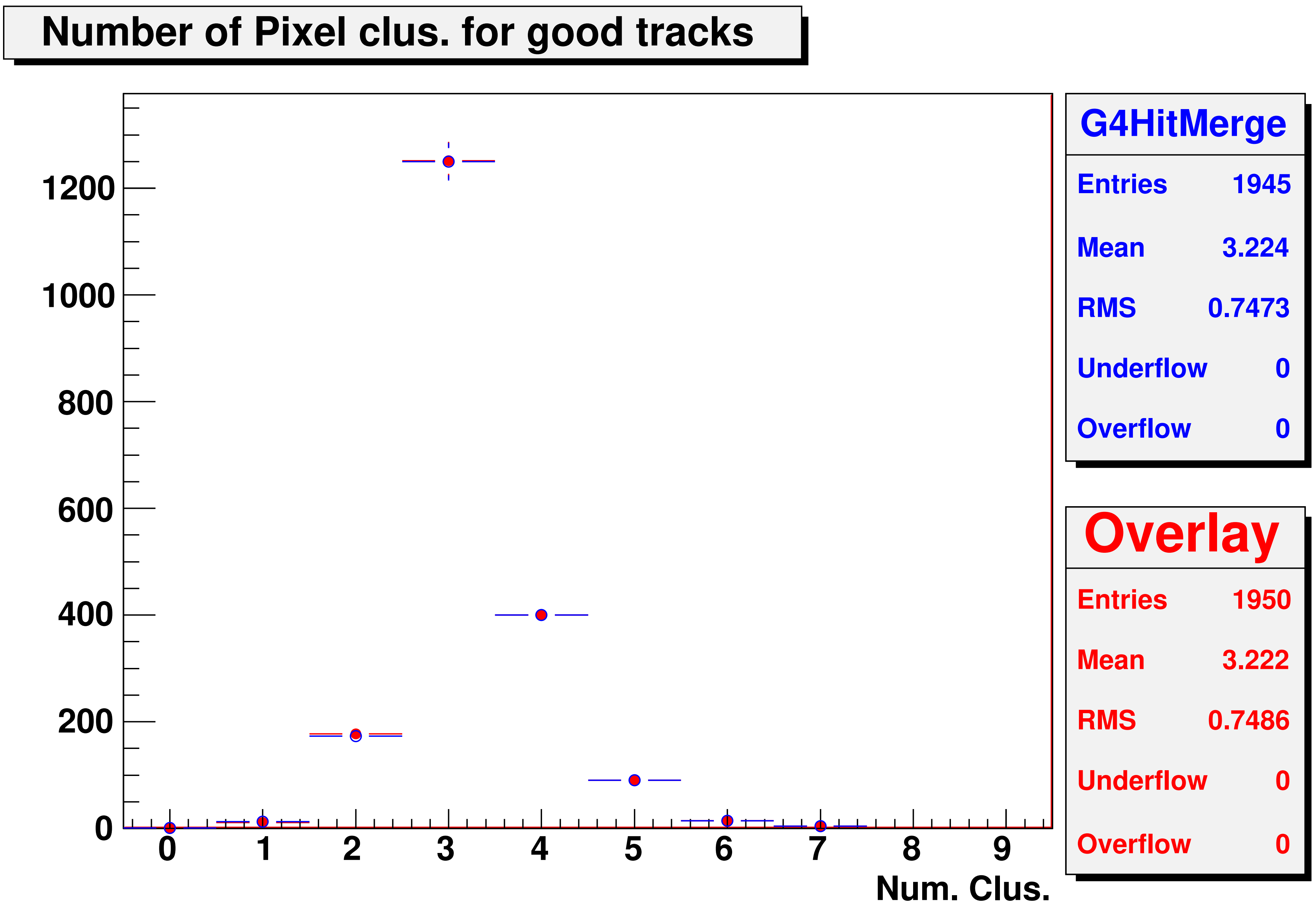


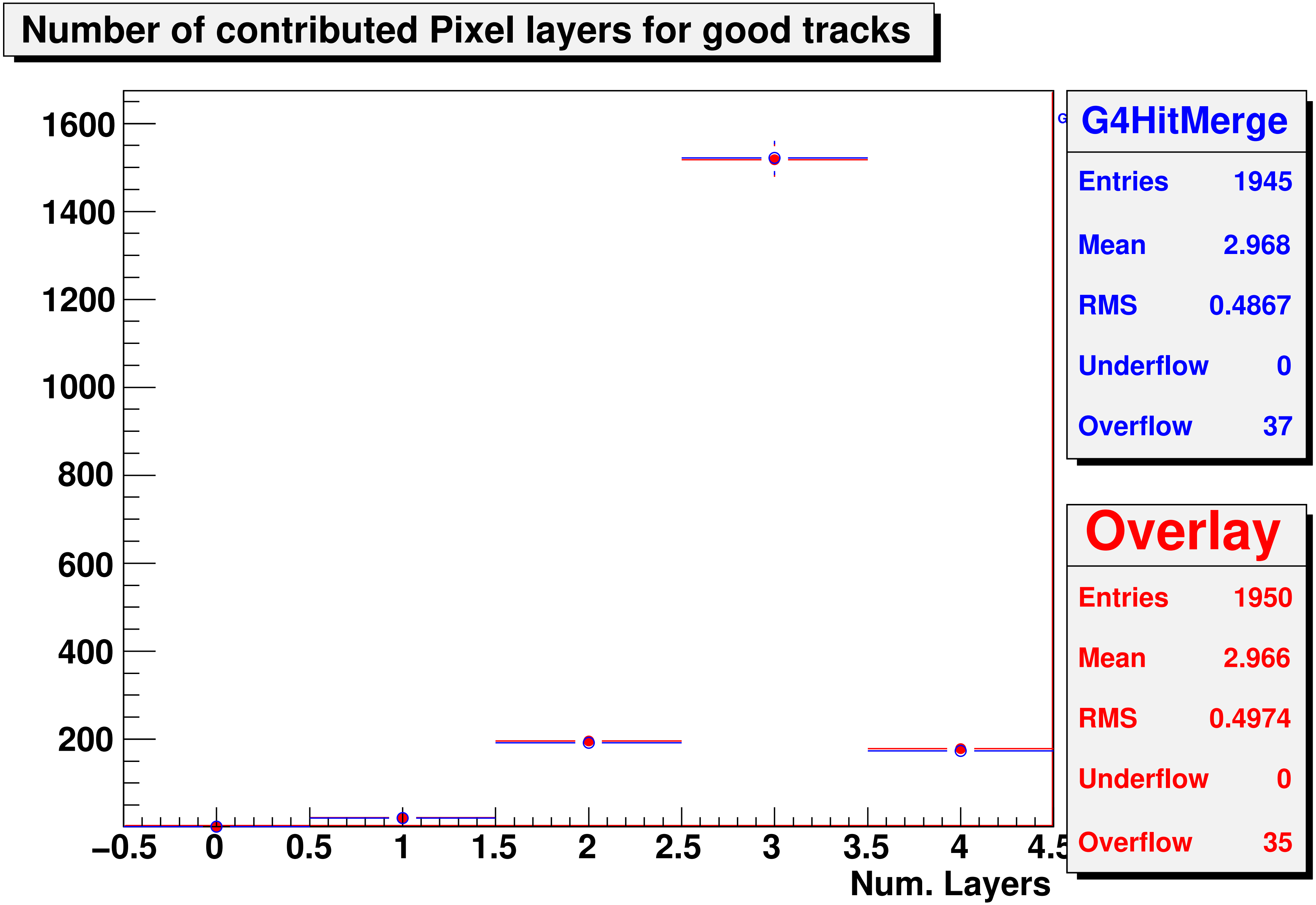
Number of TRT outliers
G4HitMerge
Entries 1945
Mean 1.207
RMS 5.167
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean 1.279
RMS 5.503
Underflow 0
Overflow 0
10^3
10^2
10
1
0
10
20
30
40
50
Num. Outliers

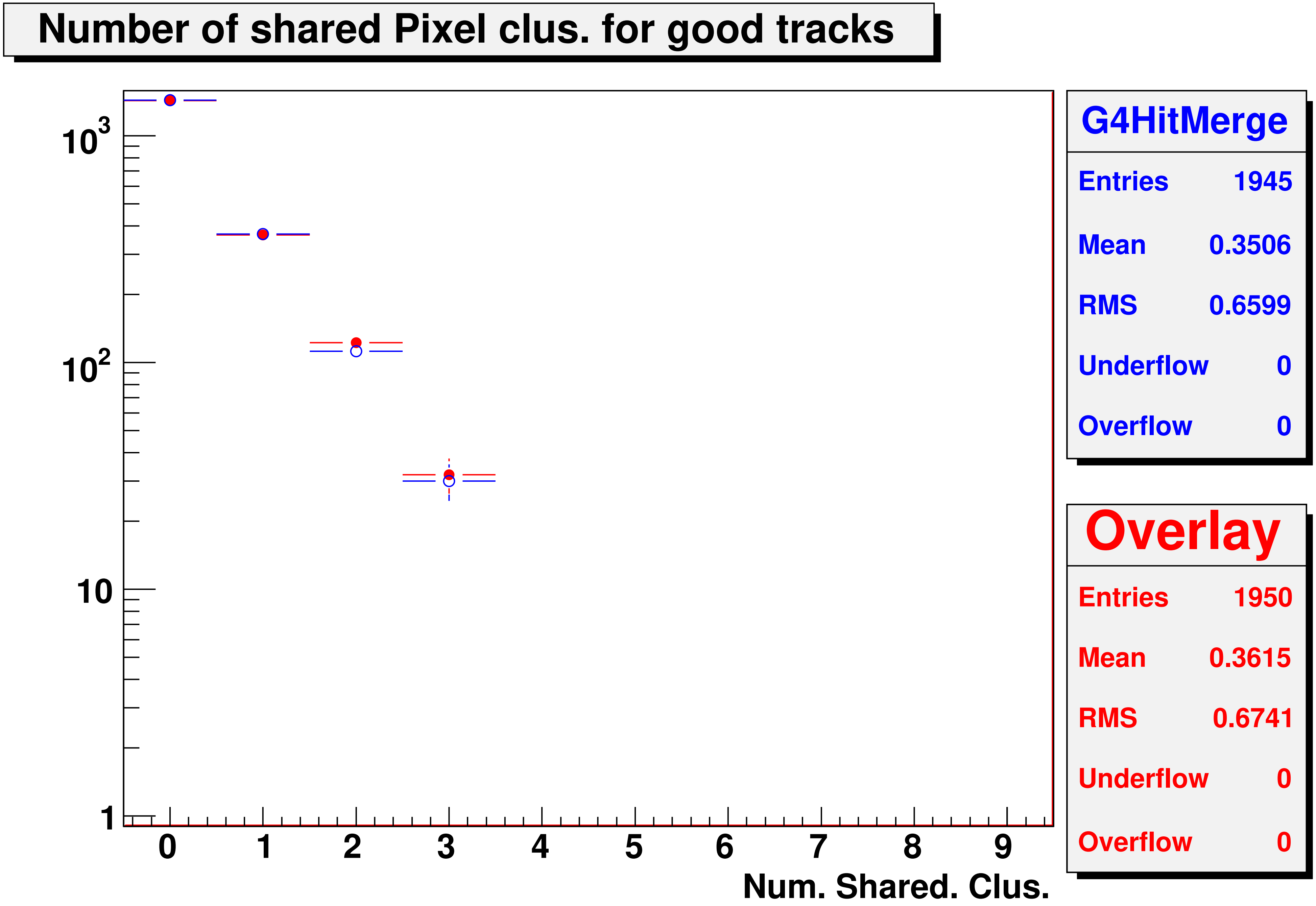

Number of TRT high threshold clus.
G4HitMerge
Entries 1945
Mean 4.528
RMS 3.857
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean 4.399
RMS 3.716
Underflow 0
Overflow 0
400
350
300
250
200
150
100
50
0
0
5
10
15
20
25
30
Num. Hits

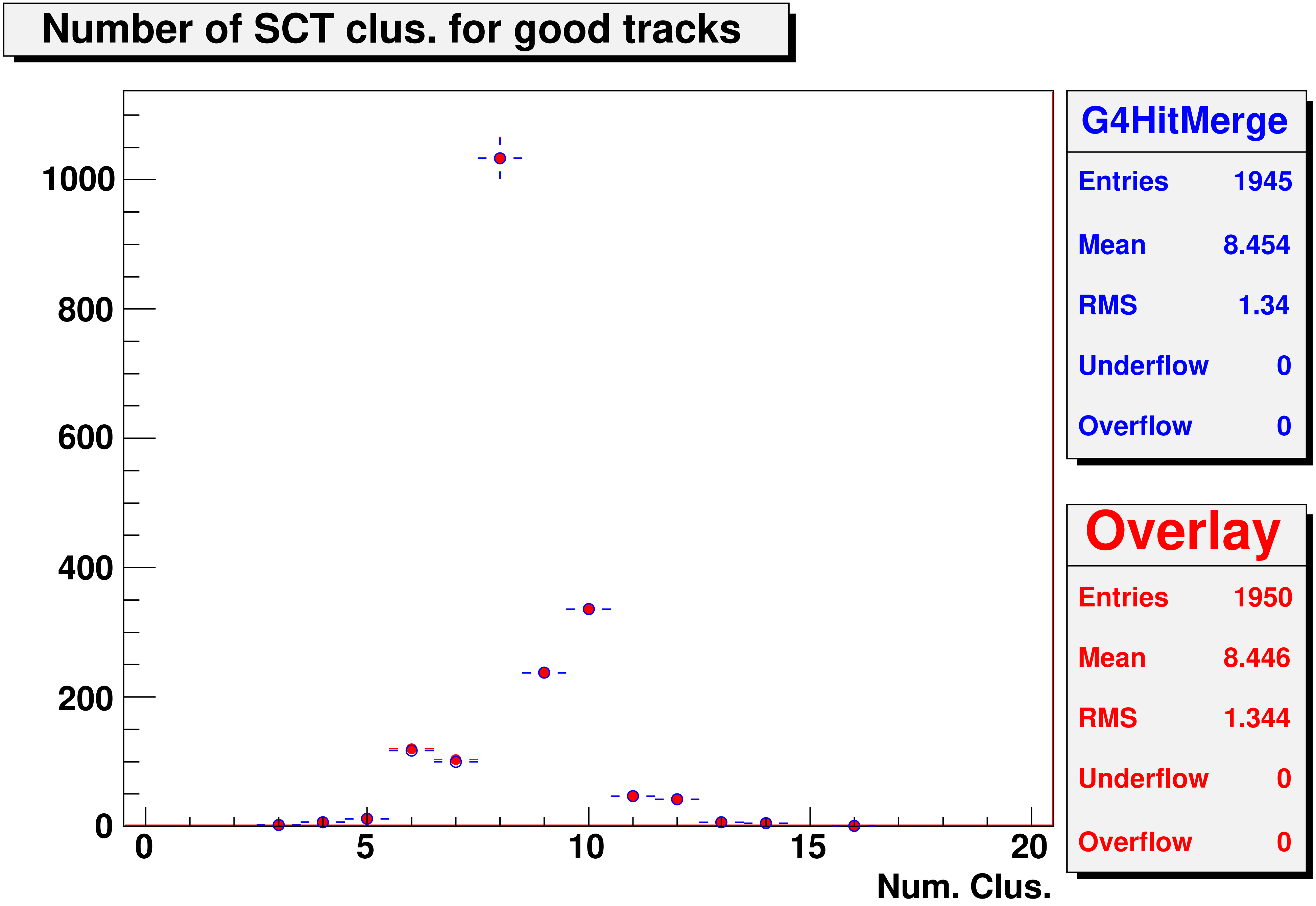


Number of B–layer clus. for good tracks
1800
1600
1400
1200
1000
800
600
400
200
0
–0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Clus.
G4HitMerge
Entries 1945
Mean 1.055
RMS 0.3593
Underflow 0
Overflow 0
Overlay
Entries 1950
Mean 1.055
RMS 0.3652
Underflow 0
Overflow 0

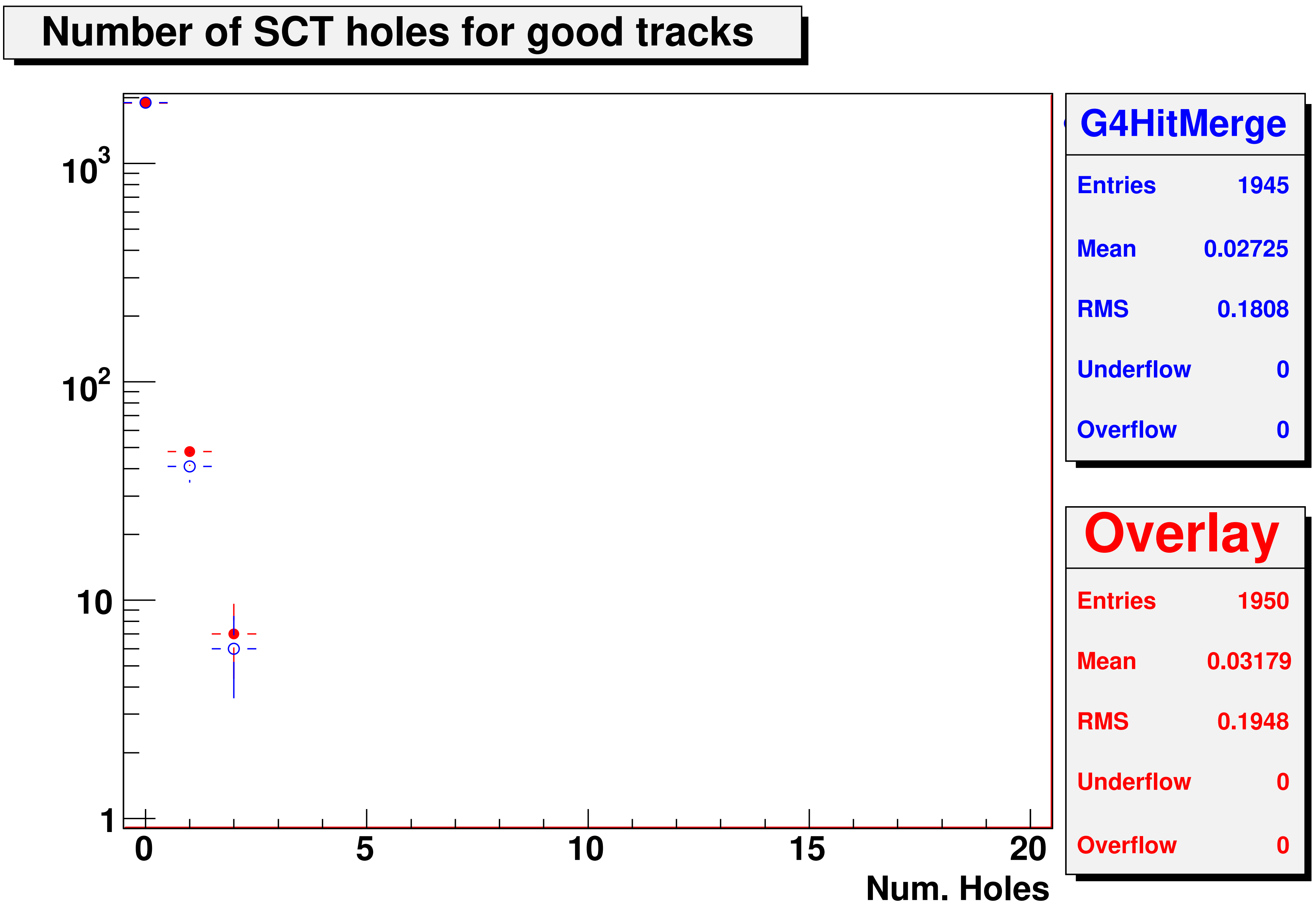

Number of Pixel clus. for good tracks
G4HitMerge
Entries 1945
Mean 3.224
RMS 0.7473
Underflow 0
Overflow 0
Overlay
Entries 1950
Mean 3.222
RMS 0.7486
Underflow 0
Overflow 0
0
200
400
600
800
1000
1200
0 1 2 3 4 5 6 7 8 9
Num. Clus.


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 1945
Mean 2.968
RMS 0.4867
Underflow 0
Overflow 37
Overlay
Entries 1950
Mean 2.966
RMS 0.4974
Underflow 0
Overflow 35

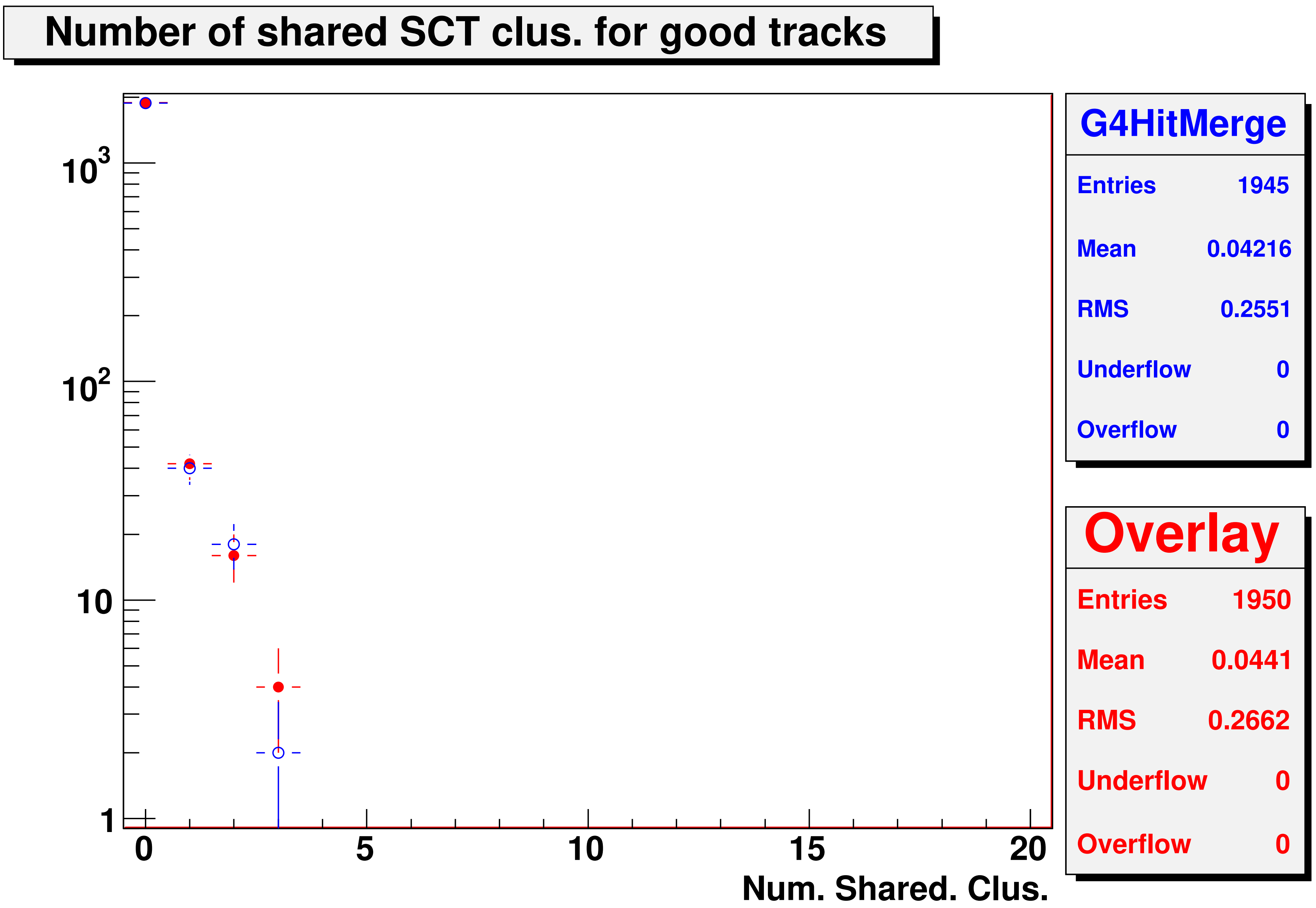

Number of shared Pixel clus. for good tracks
10^3
10^2
10
1
0
1
2
3
4
5
6
7
8
9
Num. Shared. Clus.
G4HitMerge
Entries 1945
Mean 0.3506
RMS 0.6599
Underflow 0
Overflow 0
Overlay
Entries 1950
Mean 0.3615
RMS 0.6741
Underflow 0
Overflow 0



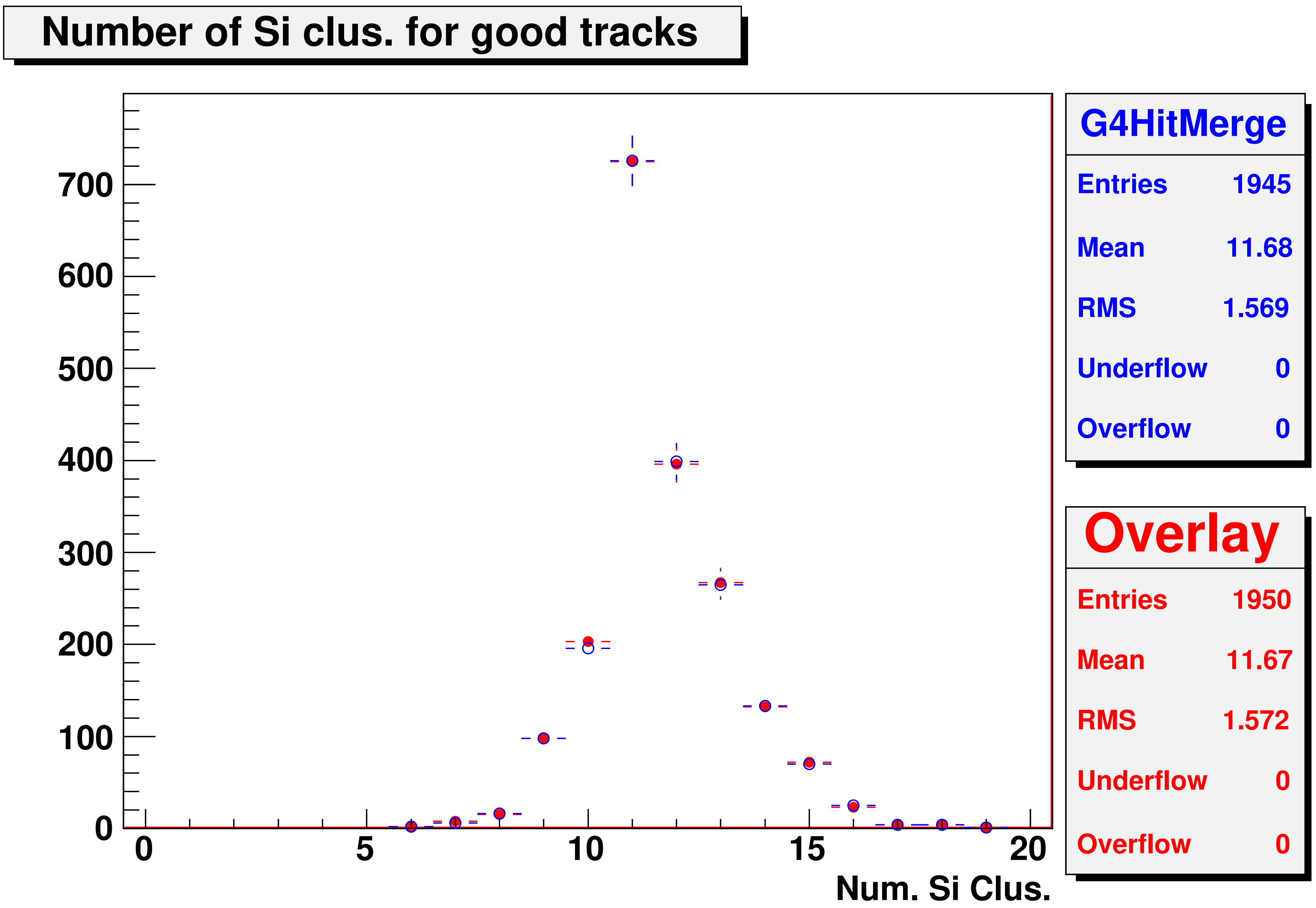
Number of SCT clus. for good tracks
G4HitMerge
Entries 1945
Mean 8.454
RMS 1.34
Underflow 0
Overflow 0
Overlay
Entries 1950
Mean 8.446
RMS 1.344
Underflow 0
Overflow 0
1000
800
600
400
200
0
0
5
10
15
20
Num. Clus.



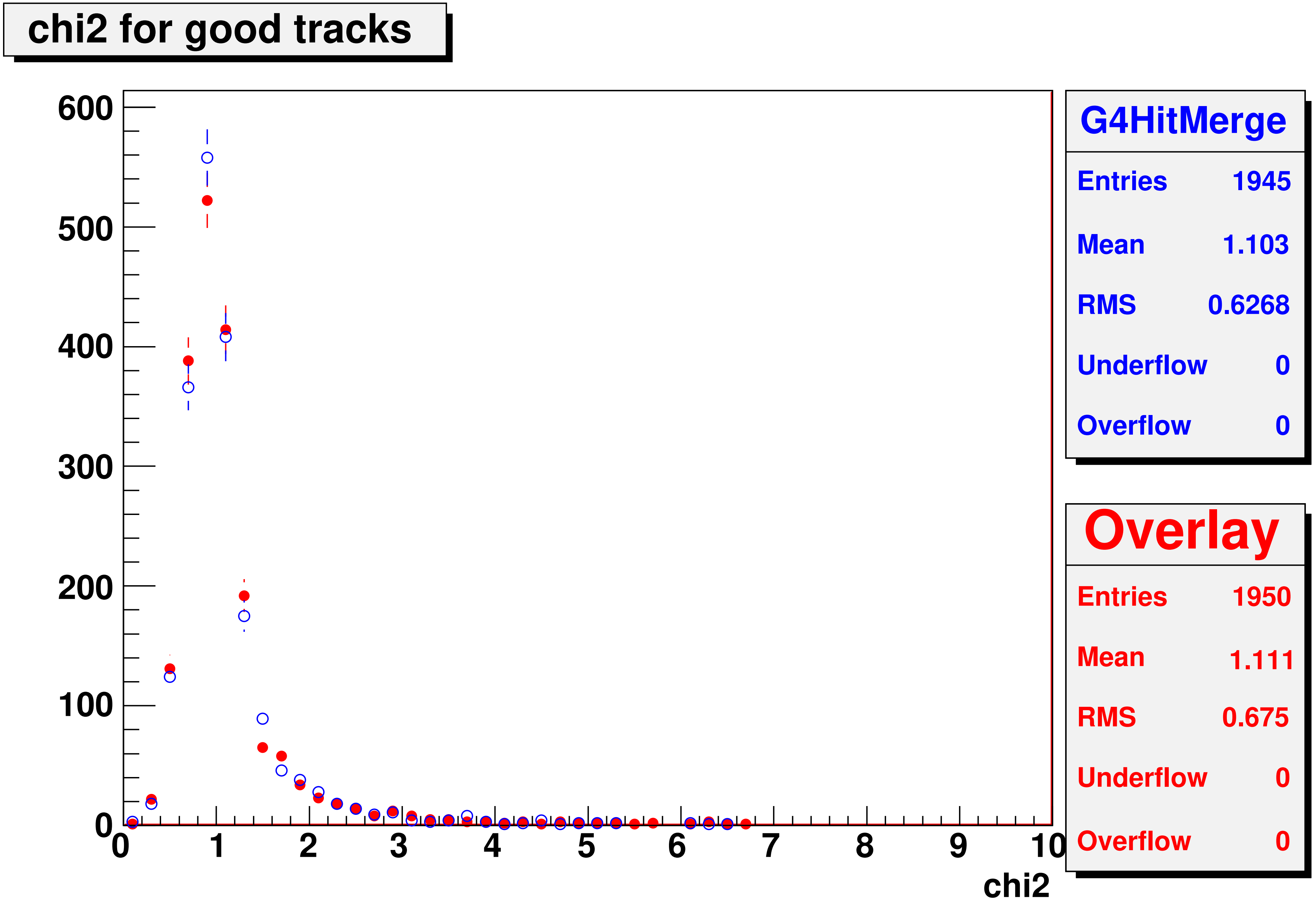
Number of SCT holes for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Holes
G4HitMerge
Entries 1945
Mean 0.02725
RMS 0.1808
Underflow 0
Overflow 0
Overlay
Entries 1950
Mean 0.03179
RMS 0.1948
Underflow 0
Overflow 0



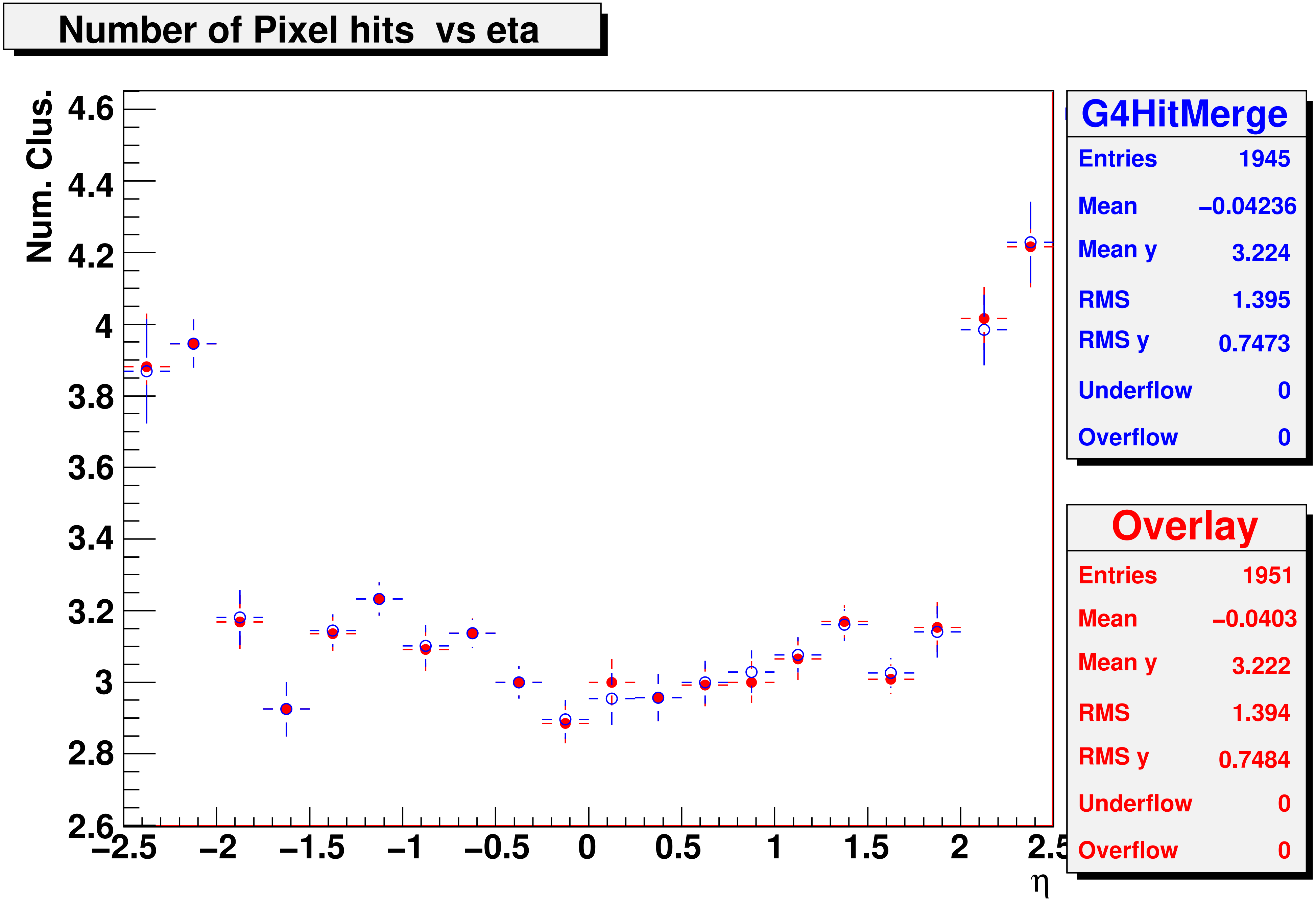
Number of shared SCT clus. for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Shared. Clus.
G4HitMerge
Entries 1945
Mean 0.04216
RMS 0.2551
Underflow 0
Overflow 0
Overlay
Entries 1950
Mean 0.0441
RMS 0.2662
Underflow 0
Overflow 0

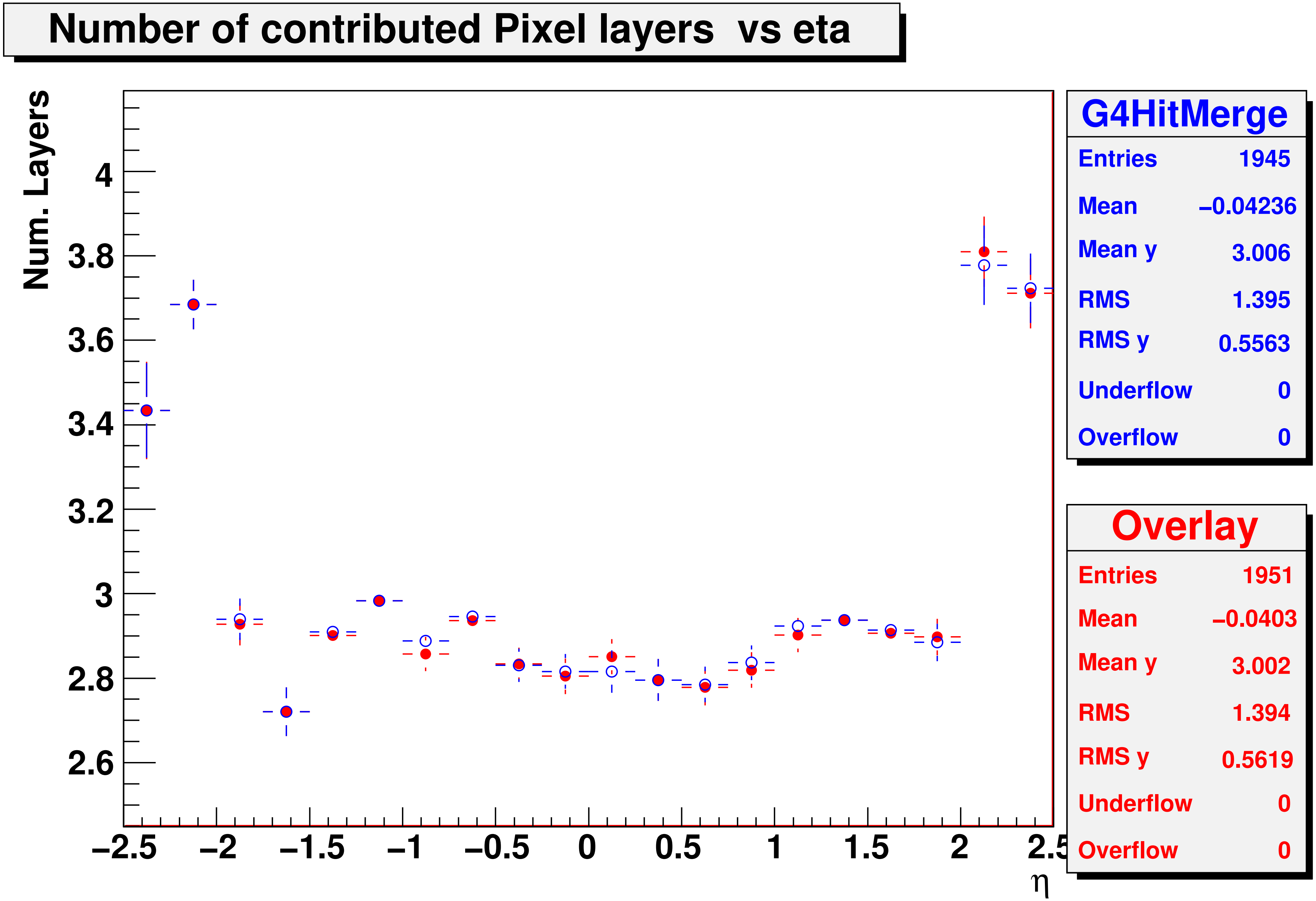


Number of Si clus. for good tracks
0
100
200
300
400
500
600
700
0
5
10
15
20
Num. Si Clus.
G4HitMerge
Entries 1945
Mean 11.68
RMS 1.569
Underflow 0
Overflow 0
Overlay
Entries 1950
Mean 11.67
RMS 1.572
Underflow 0
Overflow 0

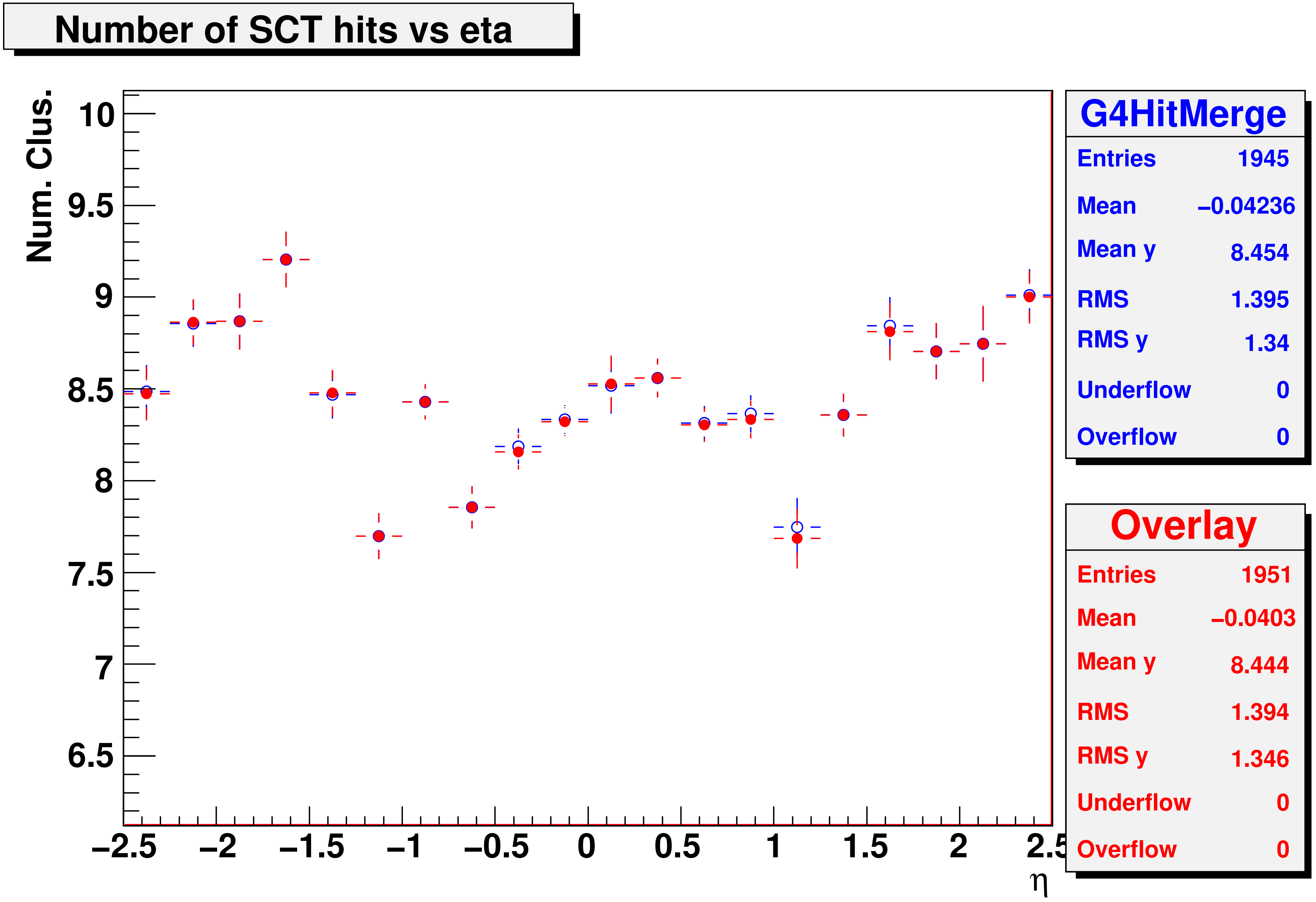


chi2 for good tracks
600
500
400
300
200
100
0
0
1
2
3
4
5
6
7
8
9
10
chi2
G4HitMerge
Entries 1945
Mean 1.103
RMS 0.6268
Underflow 0
Overflow 0
Overlay
Entries 1950
Mean 1.111
RMS 0.675
Underflow 0
Overflow 0

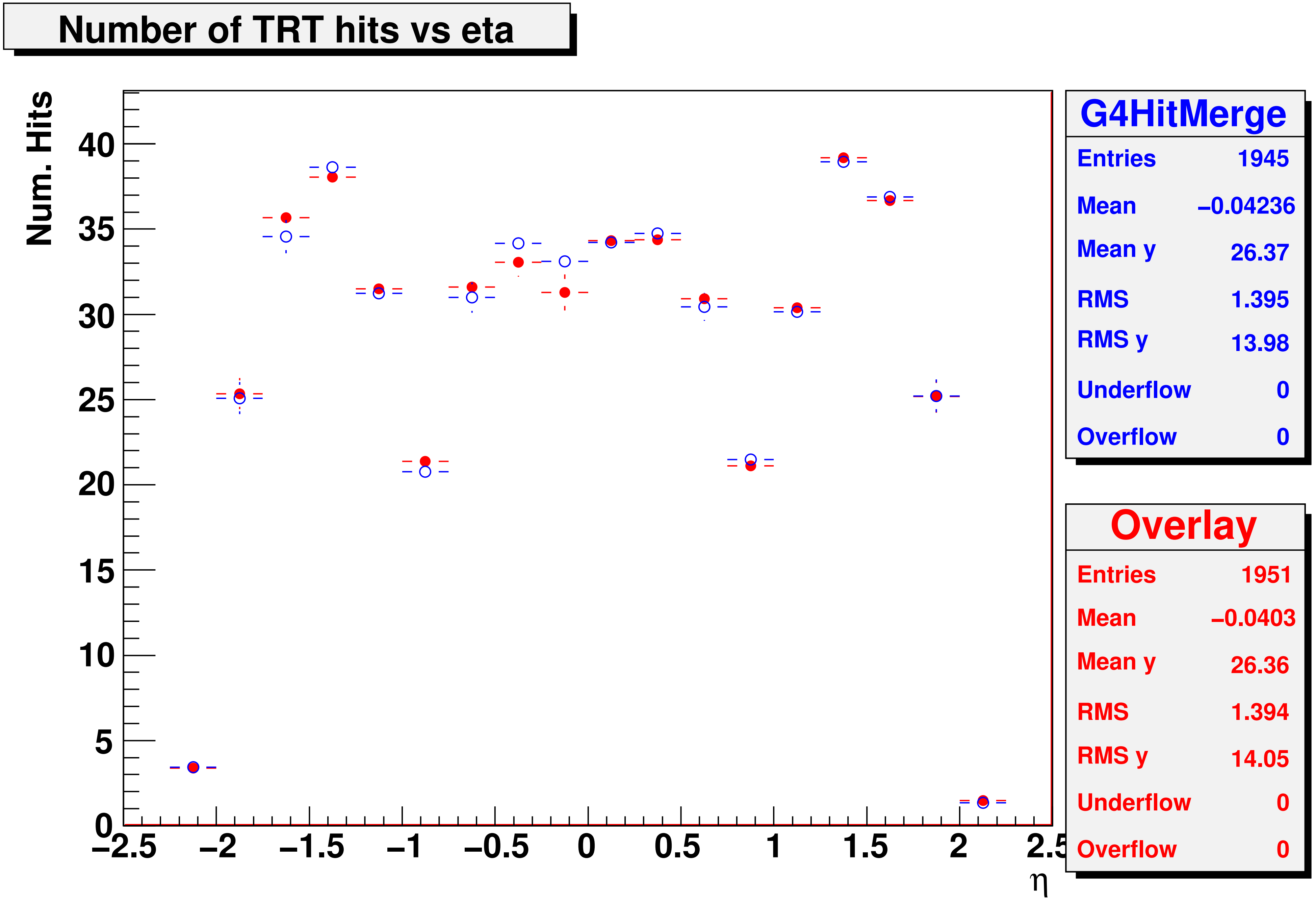

Number of Pixel hits vs eta
Num. Clus.
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1945
Mean −0.04236
Mean y 3.224
RMS 1.395
RMS y 0.7473
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean −0.0403
Mean y 3.222
RMS 1.394
RMS y 0.7484
Underflow 0
Overflow 0

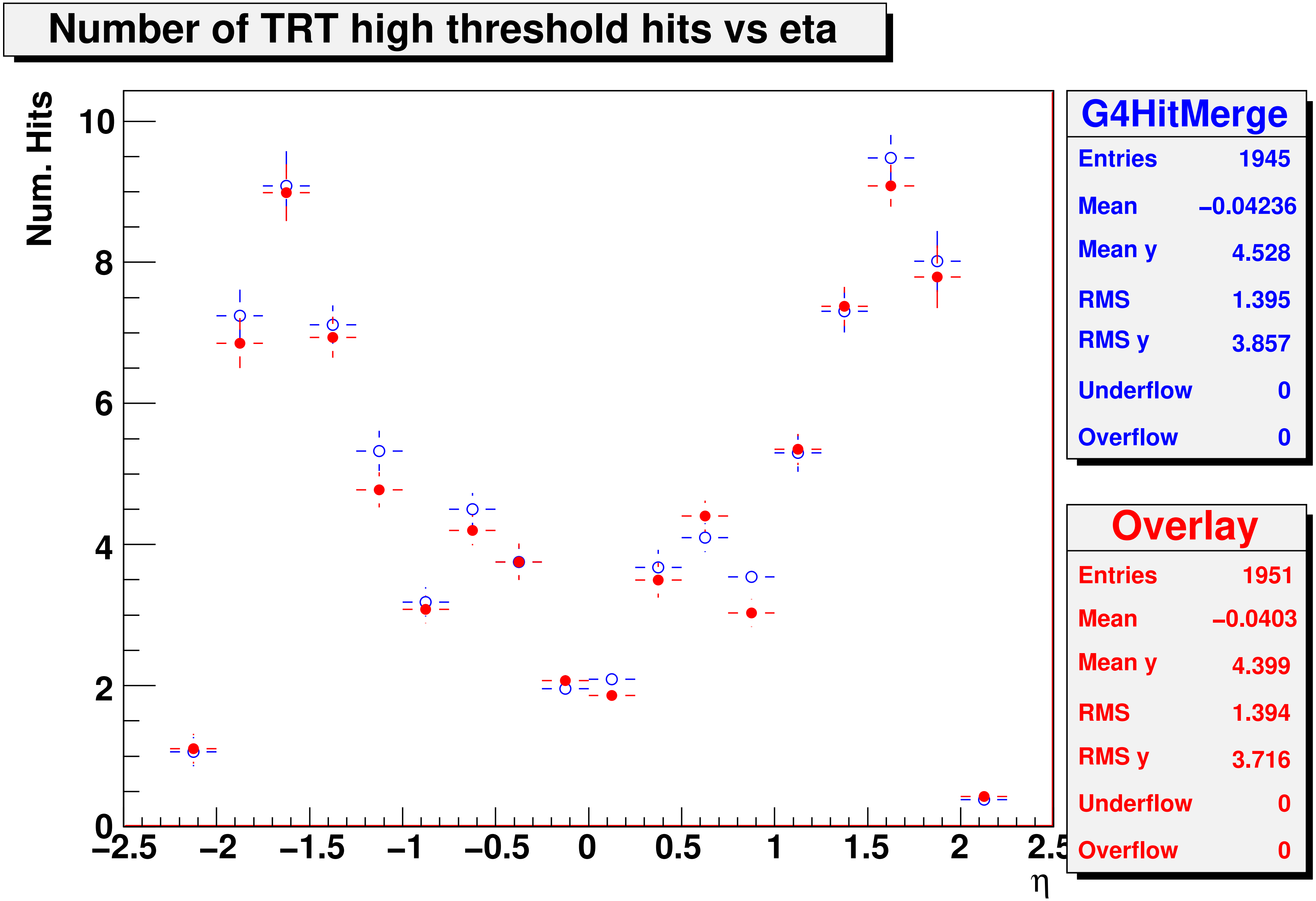


Number of contributed Pixel layers vs eta
Num. Layers
4
3.8
3.6
3.4
3.2
3
2.8
2.6
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1945
Mean −0.04236
Mean y 3.006
RMS 1.395
RMS y 0.5563
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean −0.0403
Mean y 3.002
RMS 1.394
RMS y 0.5619
Underflow 0
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 1945
Mean −0.04236
Mean y 8.454
RMS 1.395
RMS y 1.34
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean −0.0403
Mean y 8.444
RMS 1.394
RMS y 1.346
Underflow 0
Overflow 0


Number of TRT hits vs eta
Num. Hits
η
G4HitMerge
Entries 1945
Mean −0.04236
Mean y 26.37
RMS 1.395
RMS y 13.98
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean −0.0403
Mean y 26.36
RMS 1.394
RMS y 14.05
Underflow 0
Overflow 0



Number of TRT high threshold hits vs eta
Num. Hits
η
G4HitMerge
Entries 1945
Mean −0.04236
Mean y 4.528
RMS 1.395
RMS y 3.857
Underflow 0
Overflow 0
Overlay
Entries 1951
Mean −0.0403
Mean y 4.399
RMS 1.394
RMS y 3.716
Underflow 0
Overflow 0