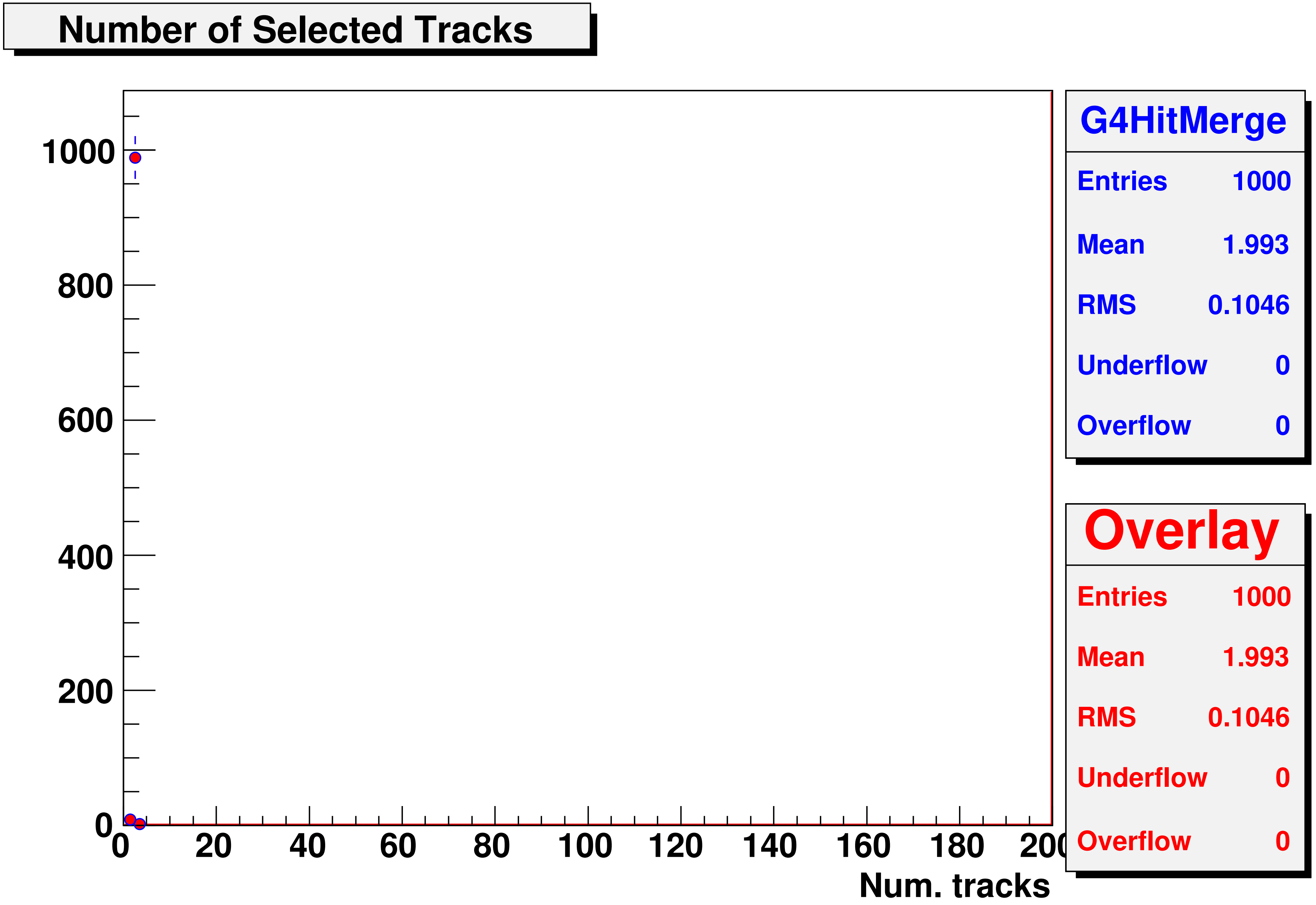
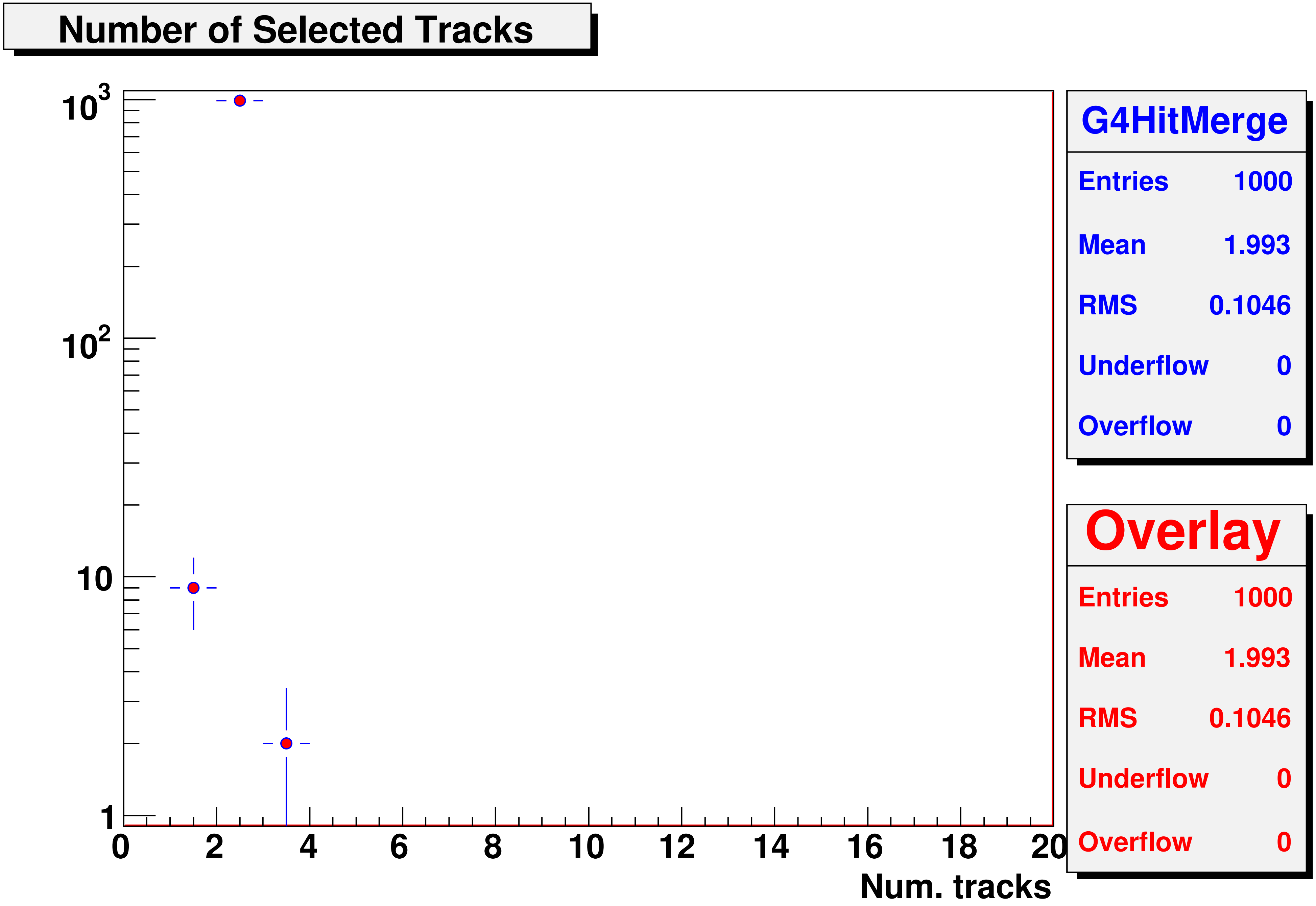
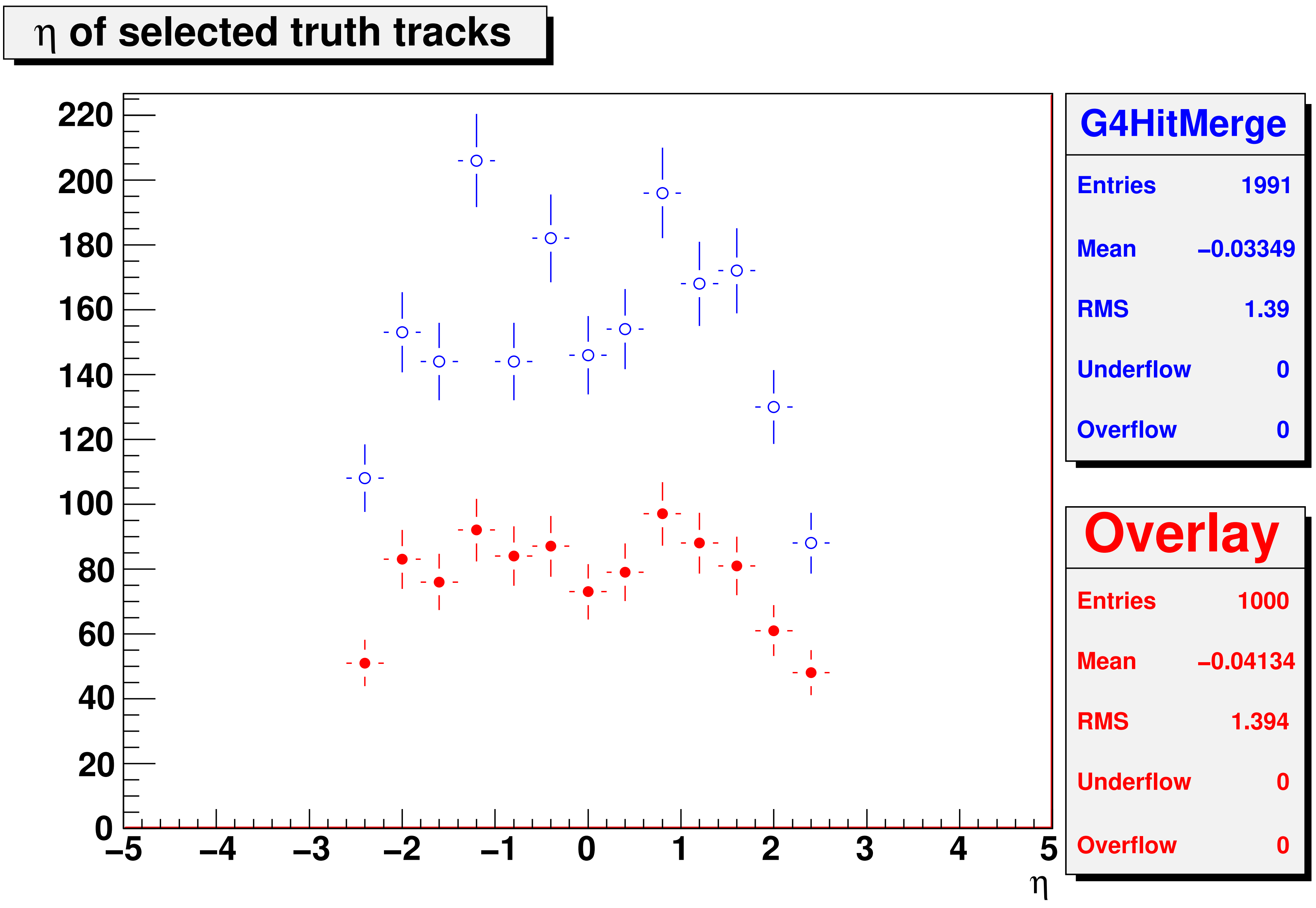
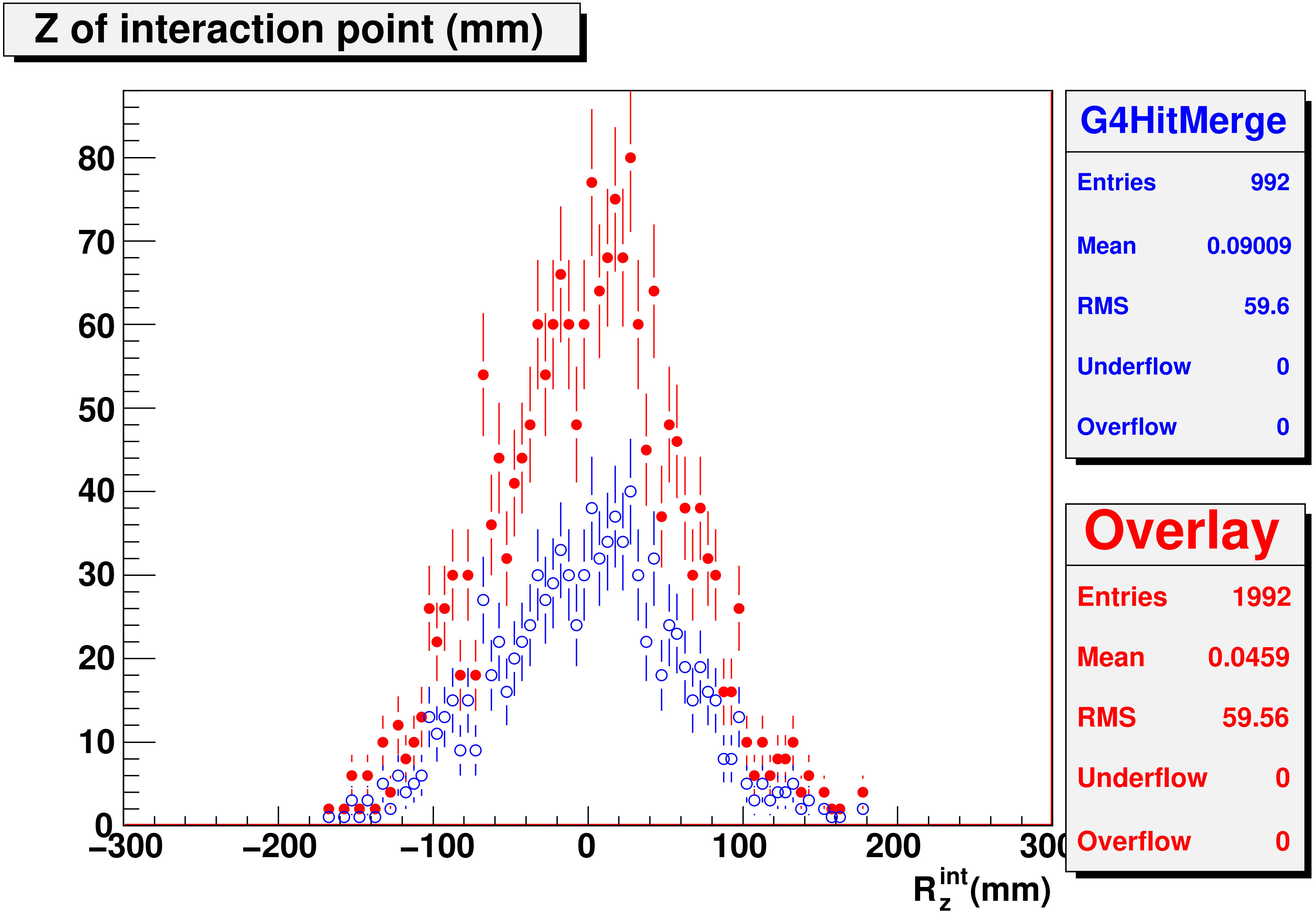

Number of Selected Tracks
1000
800
600
400
200
0
0
20
40
60
80
100
120
140
160
180
200
Num. tracks
G4HitMerge
Entries 1000
Mean 1.993
RMS 0.1046
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.993
RMS 0.1046
Underflow 0
Overflow 0

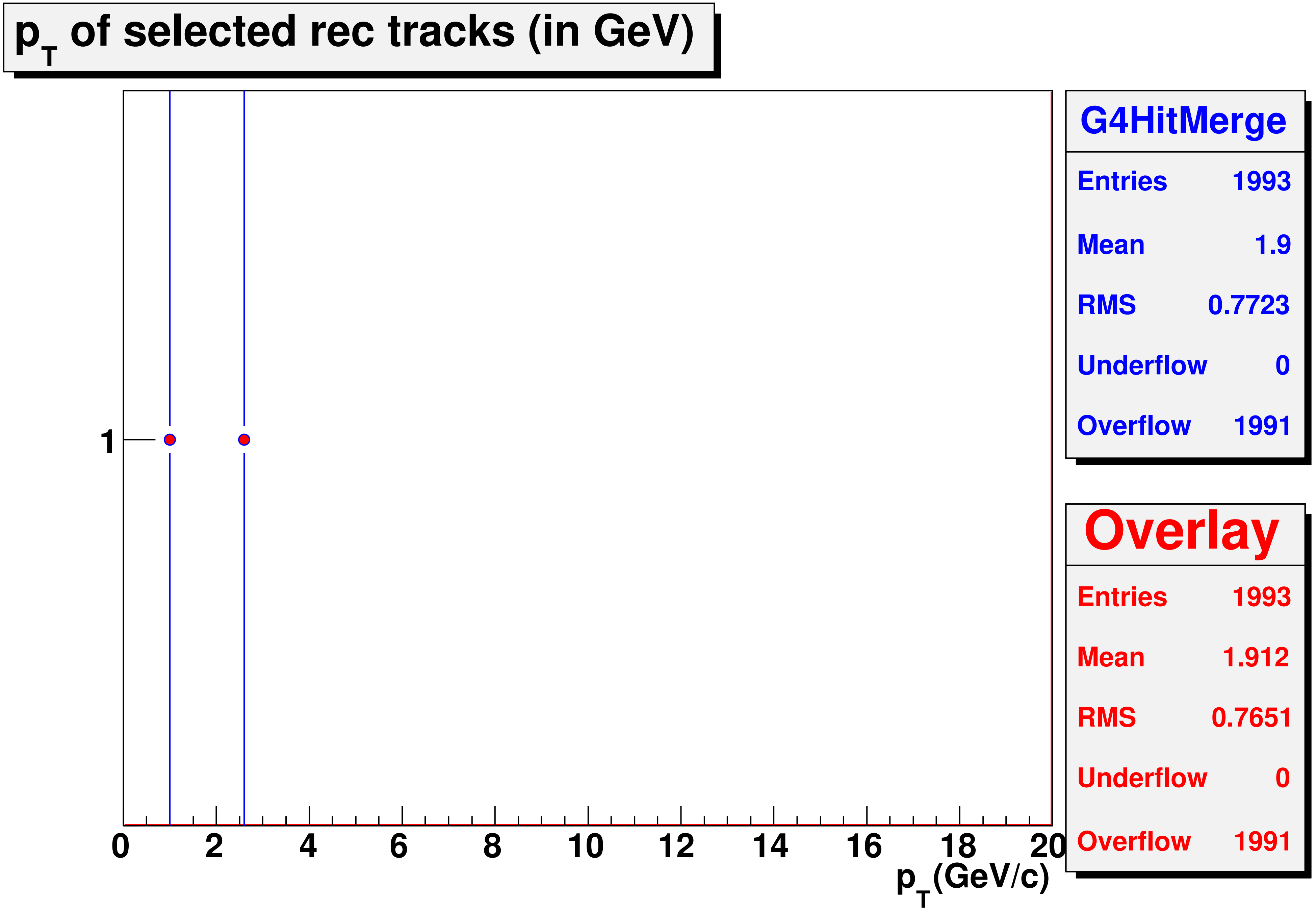

Number of Selected Tracks
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
18
20
Num. tracks
G4HitMerge
Entries 1000
Mean 1.993
RMS 0.1046
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.993
RMS 0.1046
Underflow 0
Overflow 0



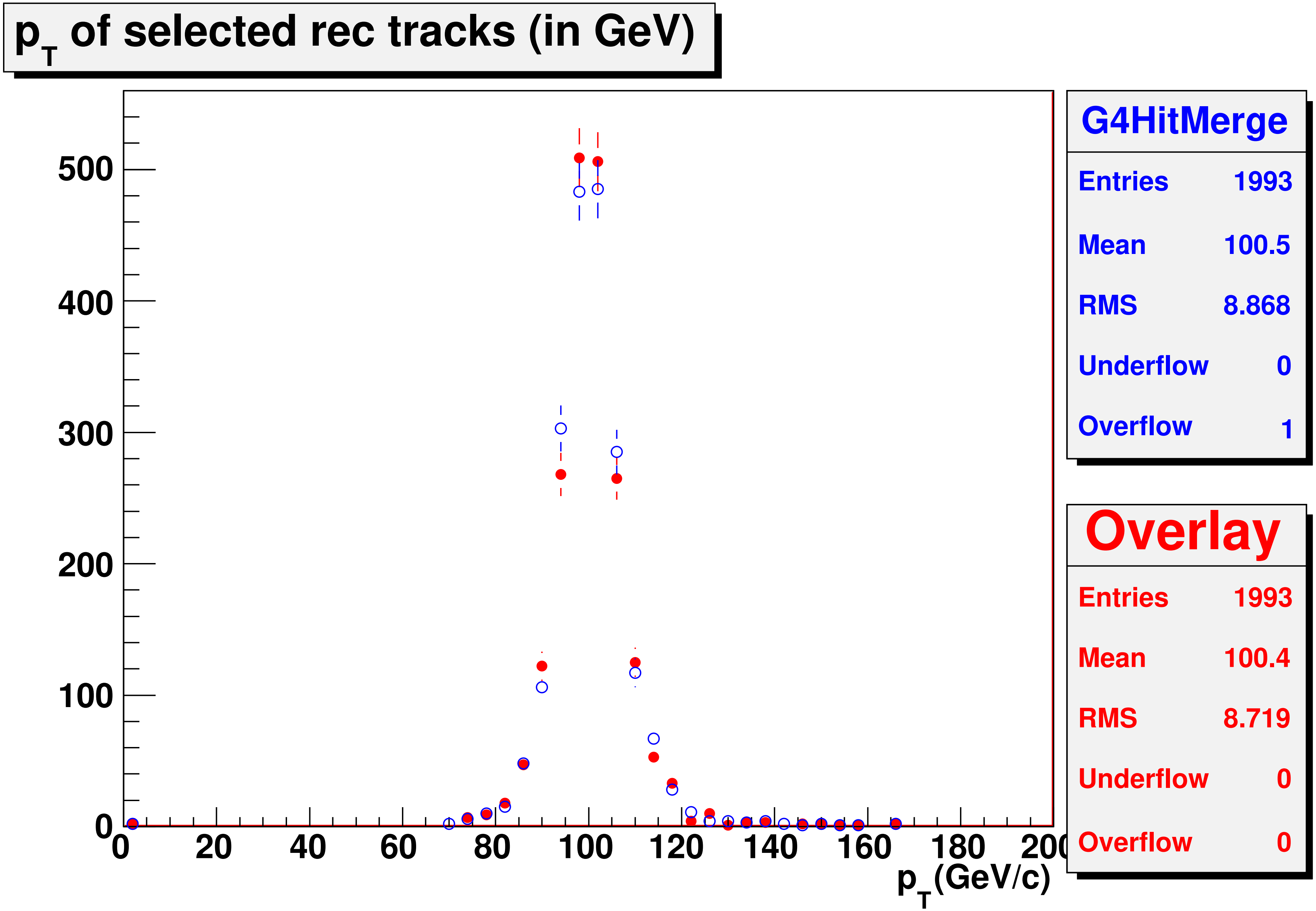
η of selected truth tracks
G4HitMerge
Entries 1991
Mean −0.03349
RMS 1.39
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean −0.04134
RMS 1.394
Underflow 0
Overflow 0
η



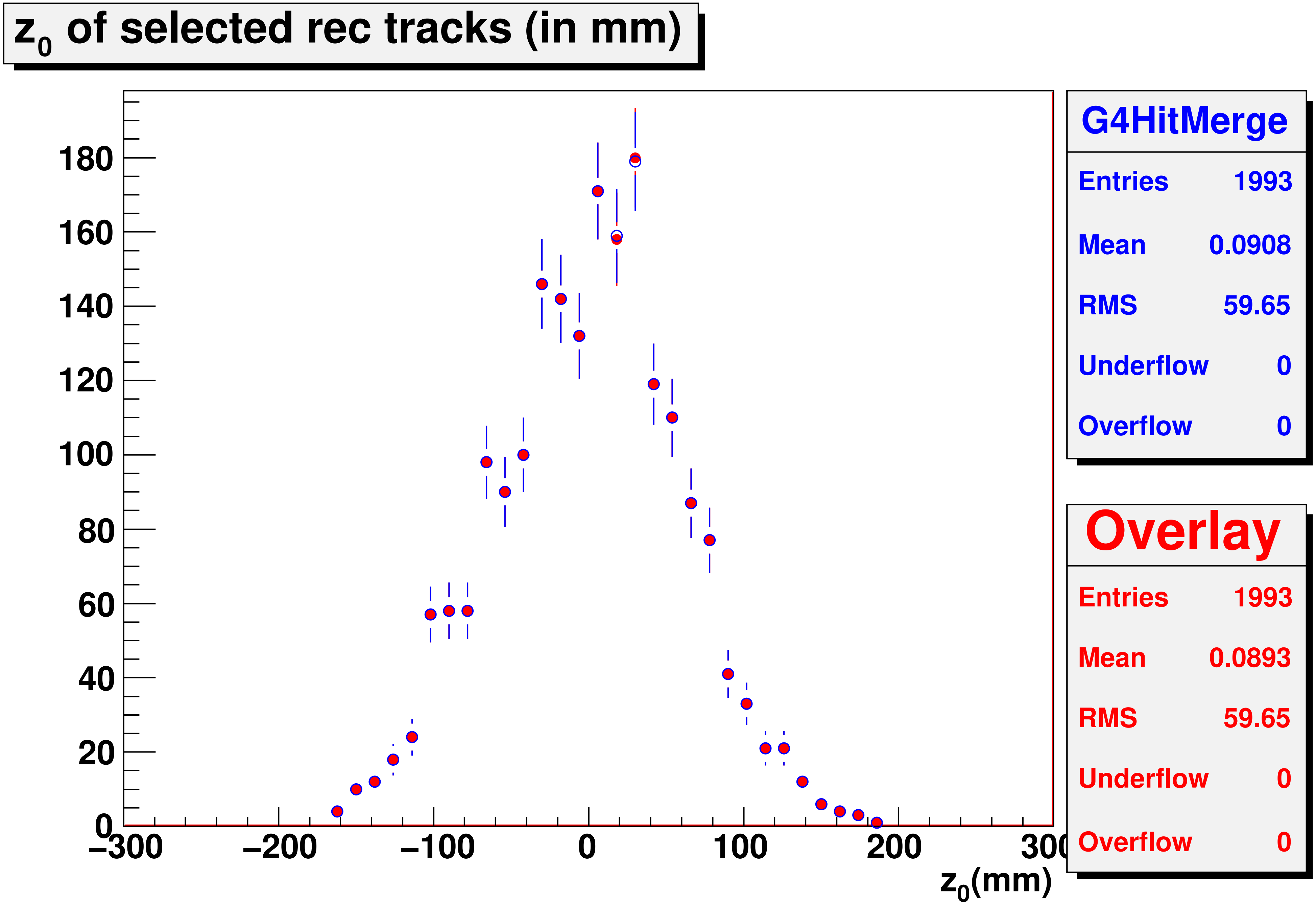
Z of interaction point (mm)
G4HitMerge
Entries 992
Mean 0.09009
RMS 59.6
Underflow 0
Overflow 0
Overlay
Entries 1992
Mean 0.0459
RMS 59.56
Underflow 0
Overflow 0
0
10
20
30
40
50
60
70
80
−300
−200
−100
0
100
200
300
R_z^{int}(mm)



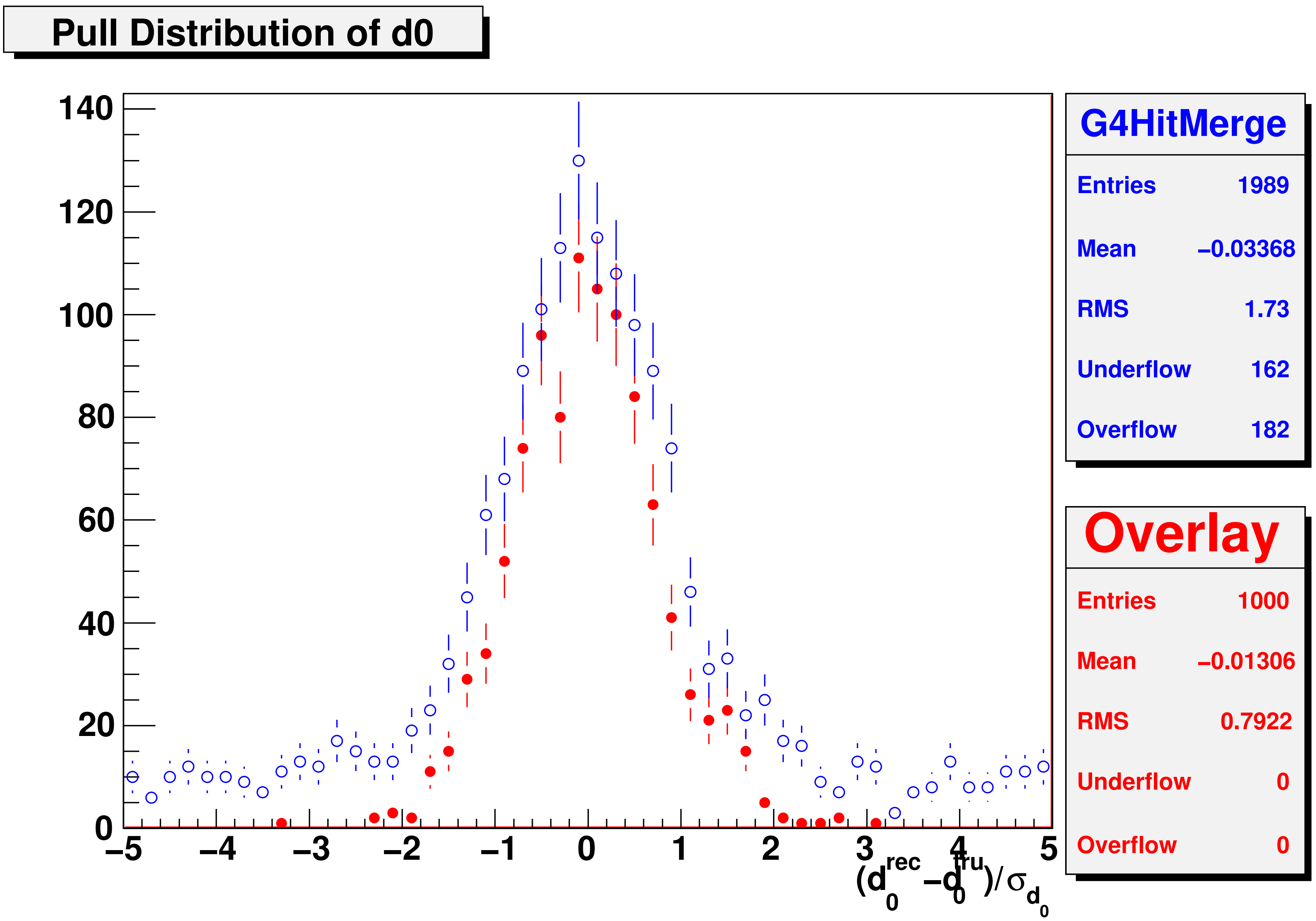
p_T of selected rec tracks (in GeV)
G4HitMerge
Entries 1993
Mean 1.9
RMS 0.7723
Underflow 0
Overflow 1991
Overlay
Entries 1993
Mean 1.912
RMS 0.7651
Underflow 0
Overflow 1991
1
0
2
4
6
8
10
12
14
16
18
20
p_T (GeV/c)



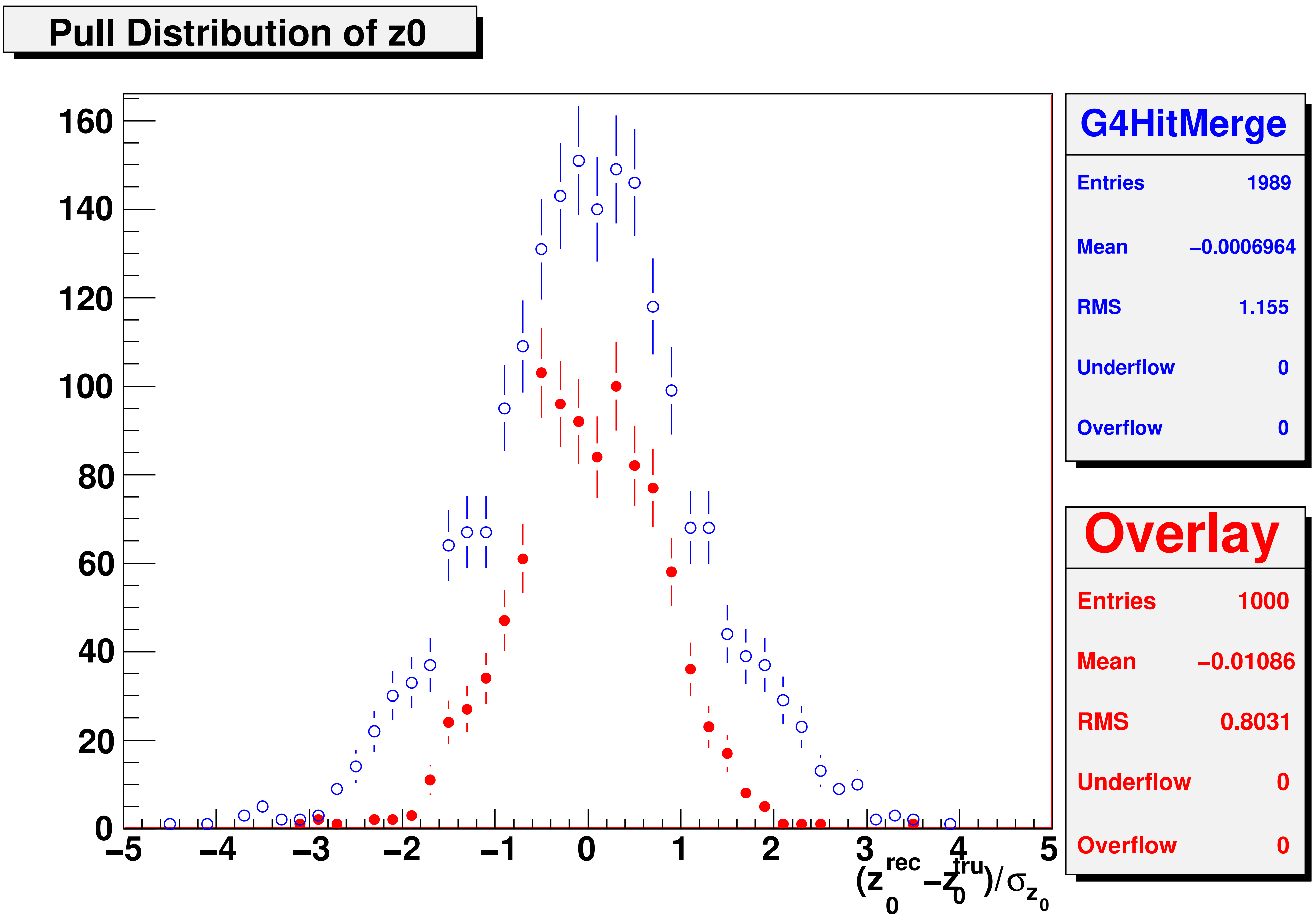
p_T of selected rec tracks (in GeV)
0
100
200
300
400
500
0
20
40
60
80
100
120
140
160
180
200
p_T(GeV/c)
G4HitMerge
Entries 1993
Mean 100.5
RMS 8.868
Underflow 0
Overflow 1
Overlay
Entries 1993
Mean 100.4
RMS 8.719
Underflow 0
Overflow 0



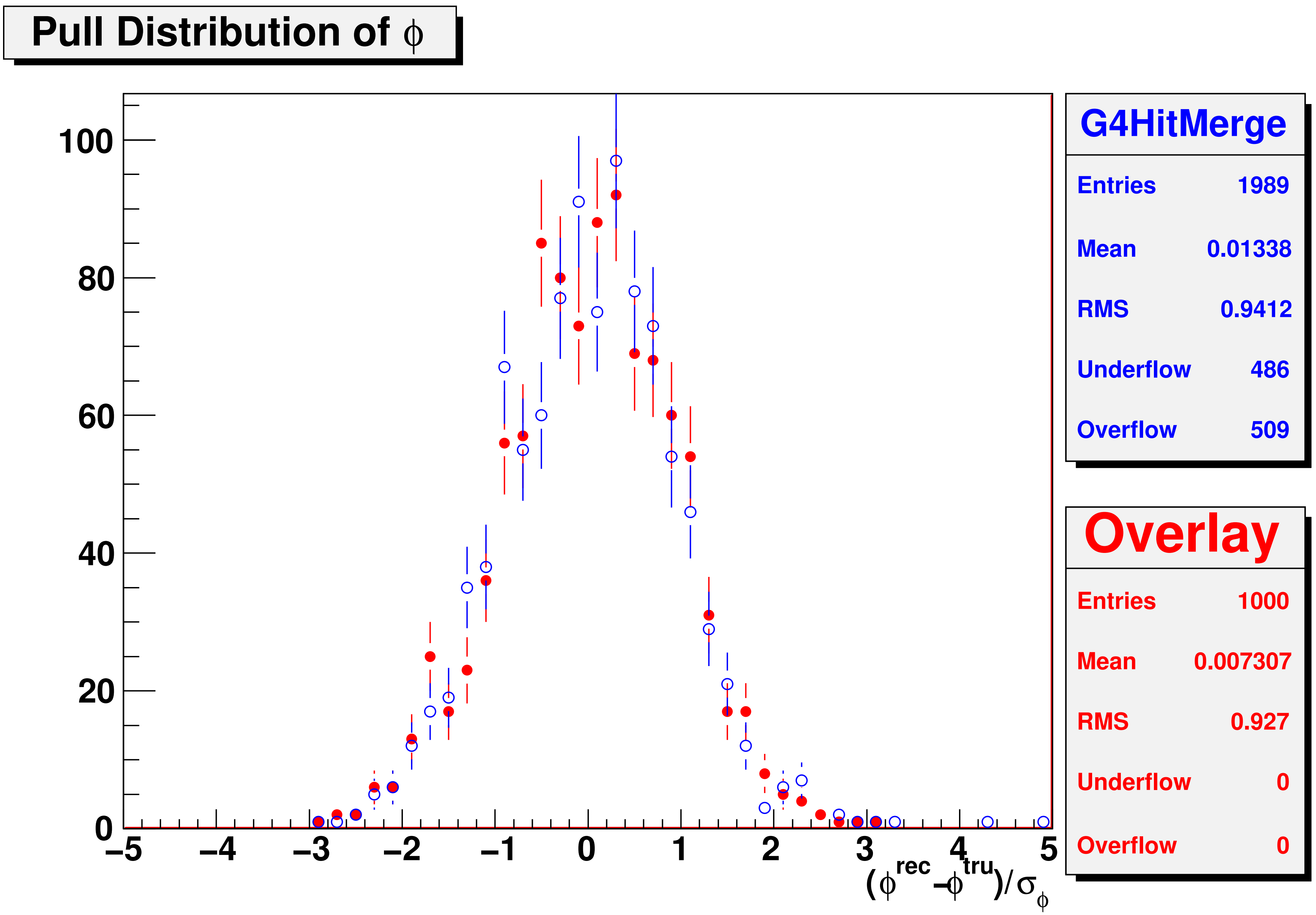
z_0 of selected rec tracks (in mm)
180
160
140
120
100
80
60
40
20
0
−300
−200
−100
0
100
200
300
z_0(mm)
G4HitMerge
Entries 1993
Mean 0.0908
RMS 59.65
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 0.0893
RMS 59.65
Underflow 0
Overflow 0



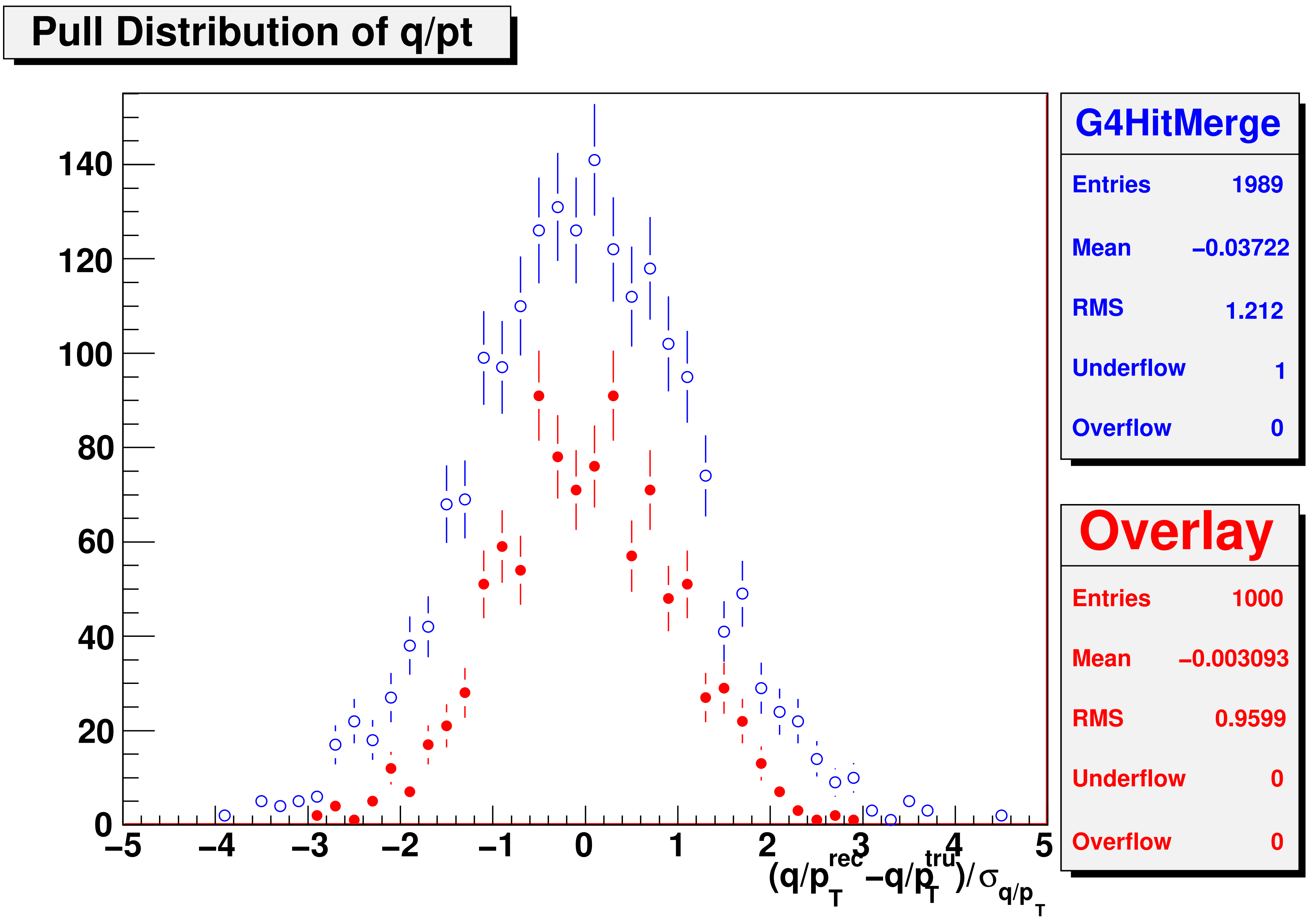
Pull Distribution of d0
G4HitMerge
Entries 1989
Mean −0.03368
RMS 1.73
Underflow 162
Overflow 182
Overlay
Entries 1000
Mean −0.01306
RMS 0.7922
Underflow 0
Overflow 0
140
120
100
80
60
40
20
0
−5
−4
−3
−2
−1
0
1
2
3
4
5
$(d_0^{rec} - d_0^{tru})/\sigma_{d_0}$



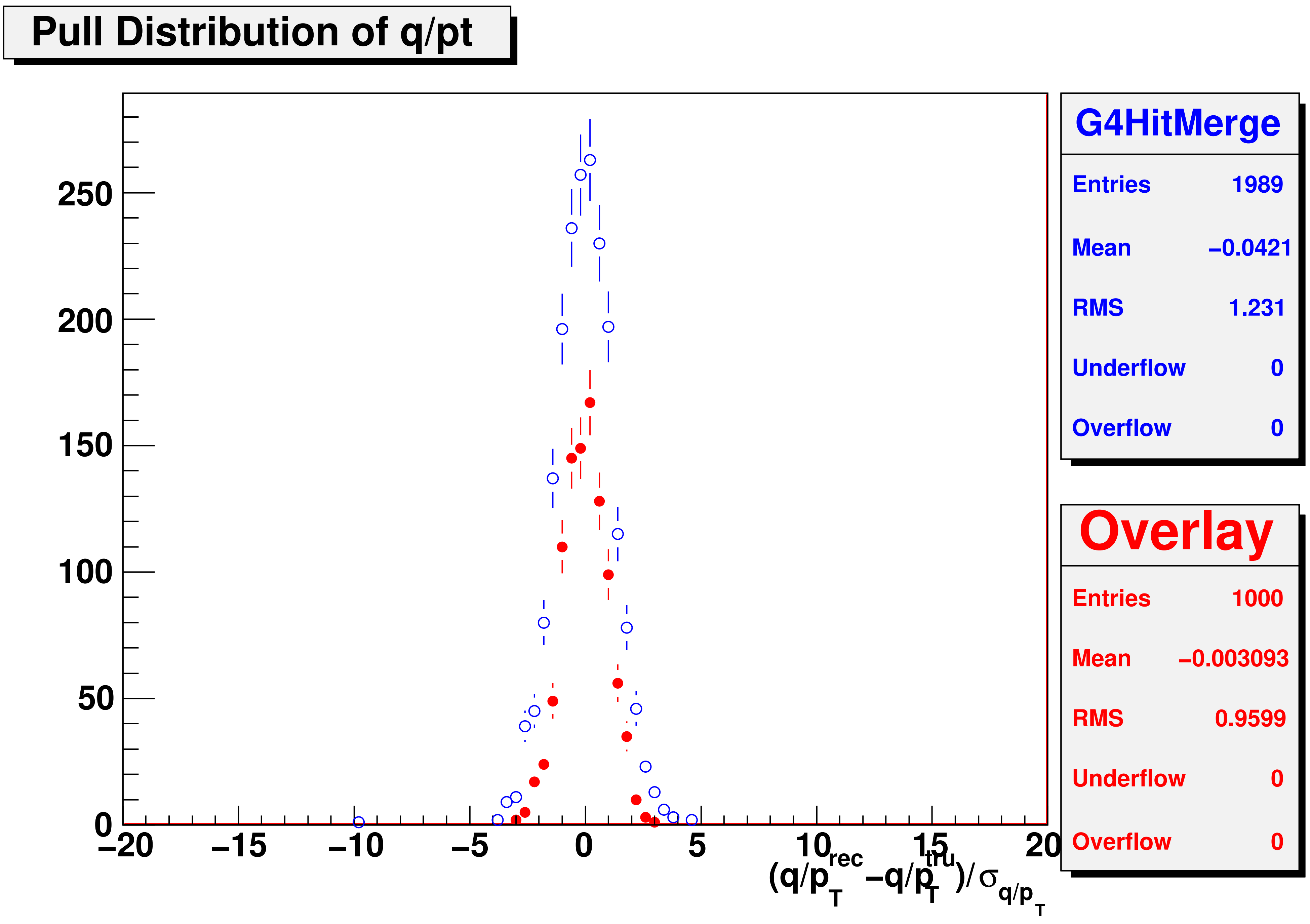
Pull Distribution of z0
G4HitMerge
Entries 1989
Mean -0.0006964
RMS 1.155
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean -0.01086
RMS 0.8031
Underflow 0
Overflow 0
160
140
120
100
80
60
40
20
0
-5 -4 -3 -2 -1 0 1 2 3 4 5
$(z_0^{rec} - z_0^{tru})/\sigma_{z_0}$



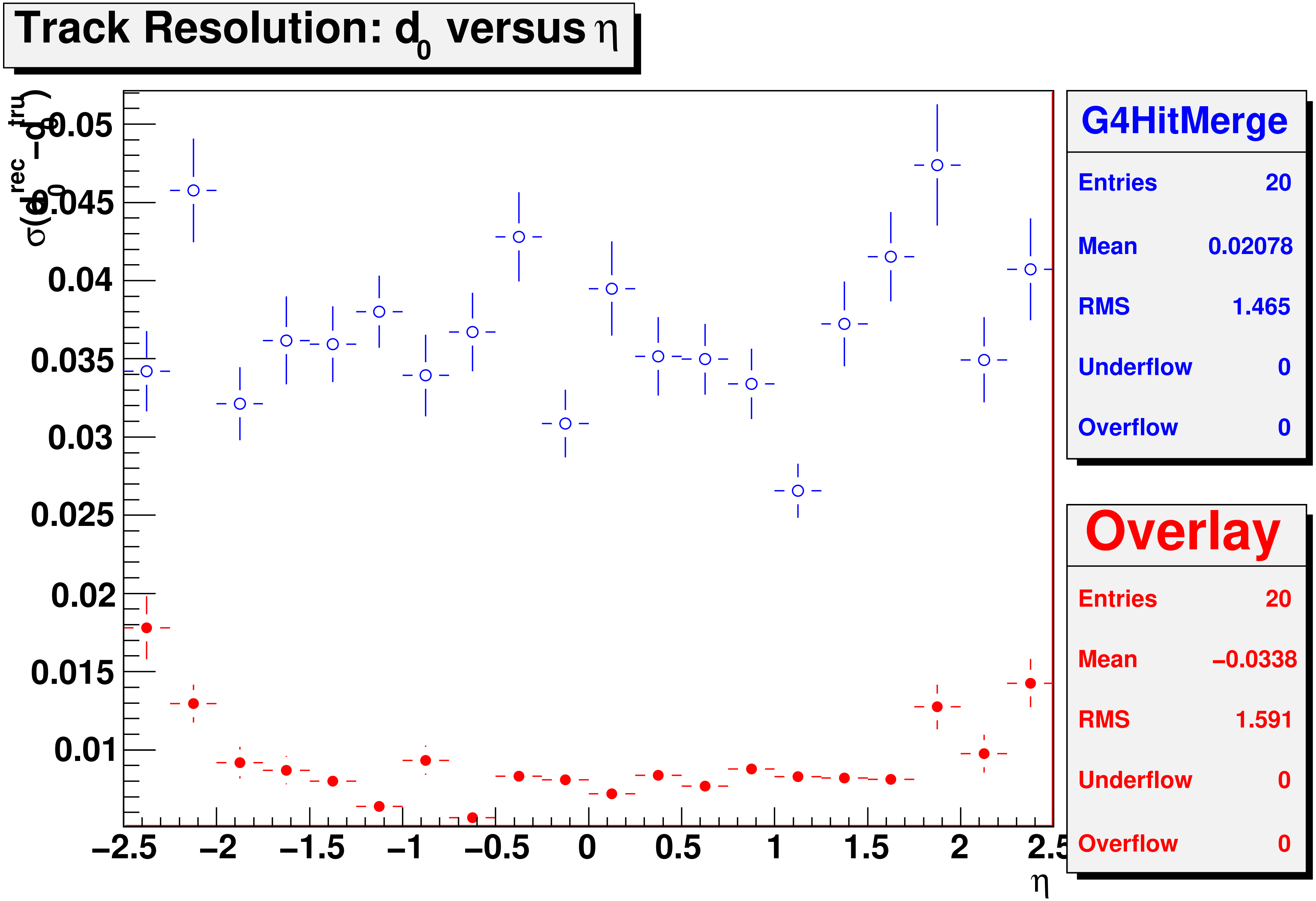
Pull Distribution of φ
G4HitMerge
Entries 1989
Mean 0.01338
RMS 0.9412
Underflow 486
Overflow 509
Overlay
Entries 1000
Mean 0.007307
RMS 0.927
Underflow 0
Overflow 0
$(\phi^{rec}-\phi^{tru})/\sigma_{\phi}$
0
20
40
60
80
100
–5
–4
–3
–2
–1
0
1
2
3
4
5



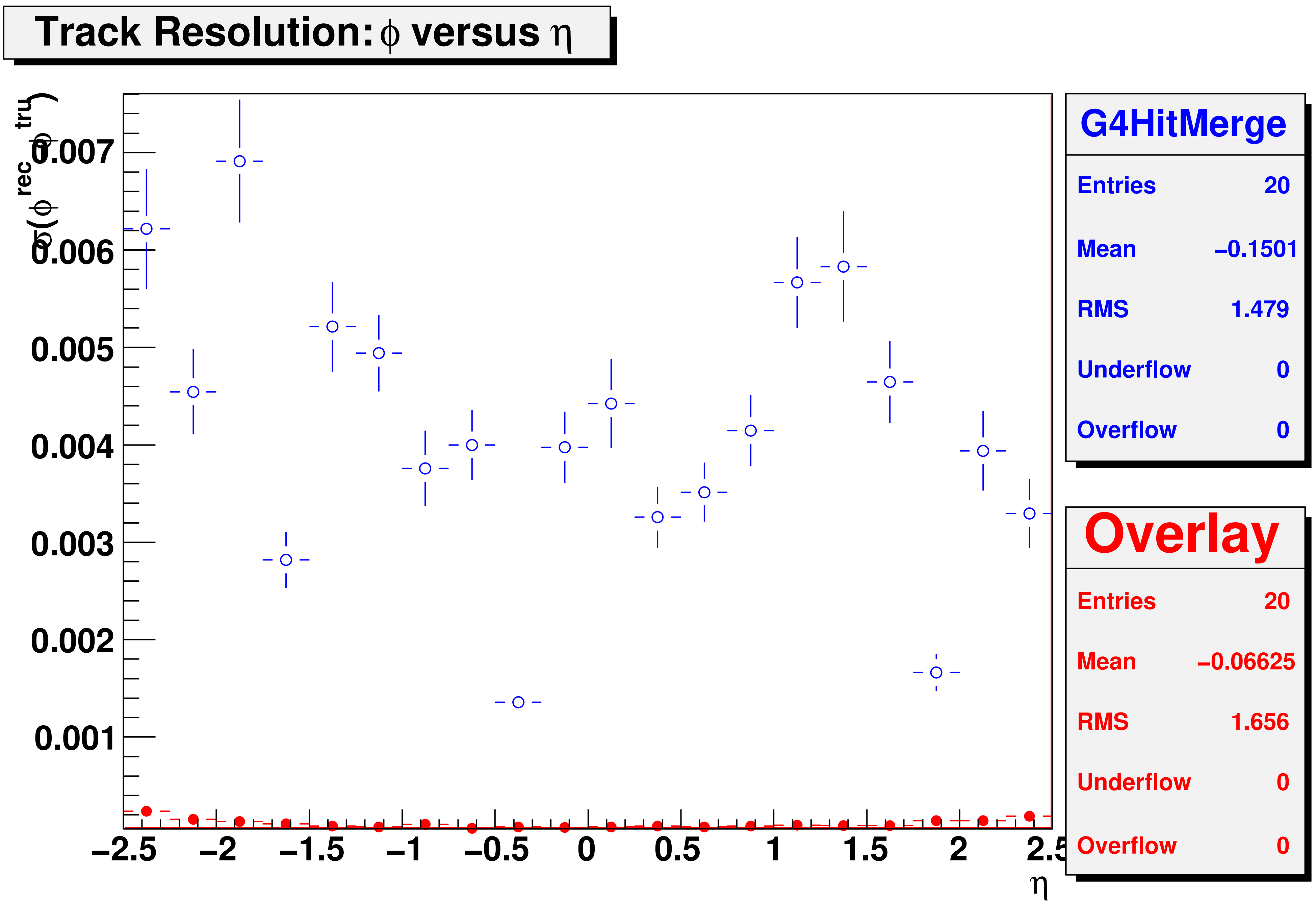
Pull Distribution of q/pt
G4HitMerge
Entries 1989
Mean −0.03722
RMS 1.212
Underflow 1
Overflow 0
Overlay
Entries 1000
Mean −0.003093
RMS 0.9599
Underflow 0
Overflow 0
0
20
40
60
80
100
120
140
−5
−4
−3
−2
−1
0
1
2
3
4
5
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$



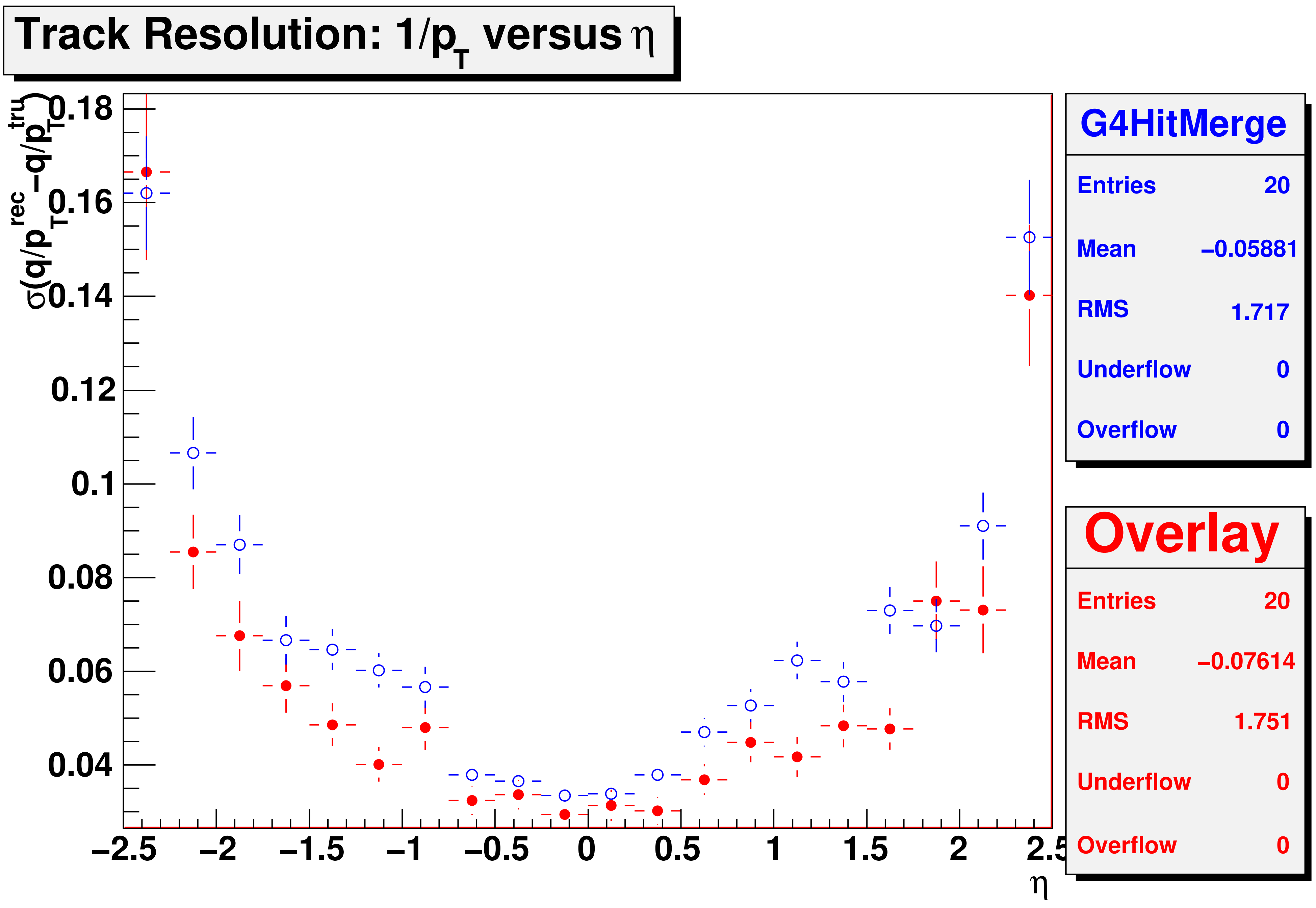
Pull Distribution of q/pt
250
200
150
100
50
0
−20
−15
−10
−5
0
5
10
15
20
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$
G4HitMerge
Entries 1989
Mean −0.0421
RMS 1.231
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean −0.003093
RMS 0.9599
Underflow 0
Overflow 0



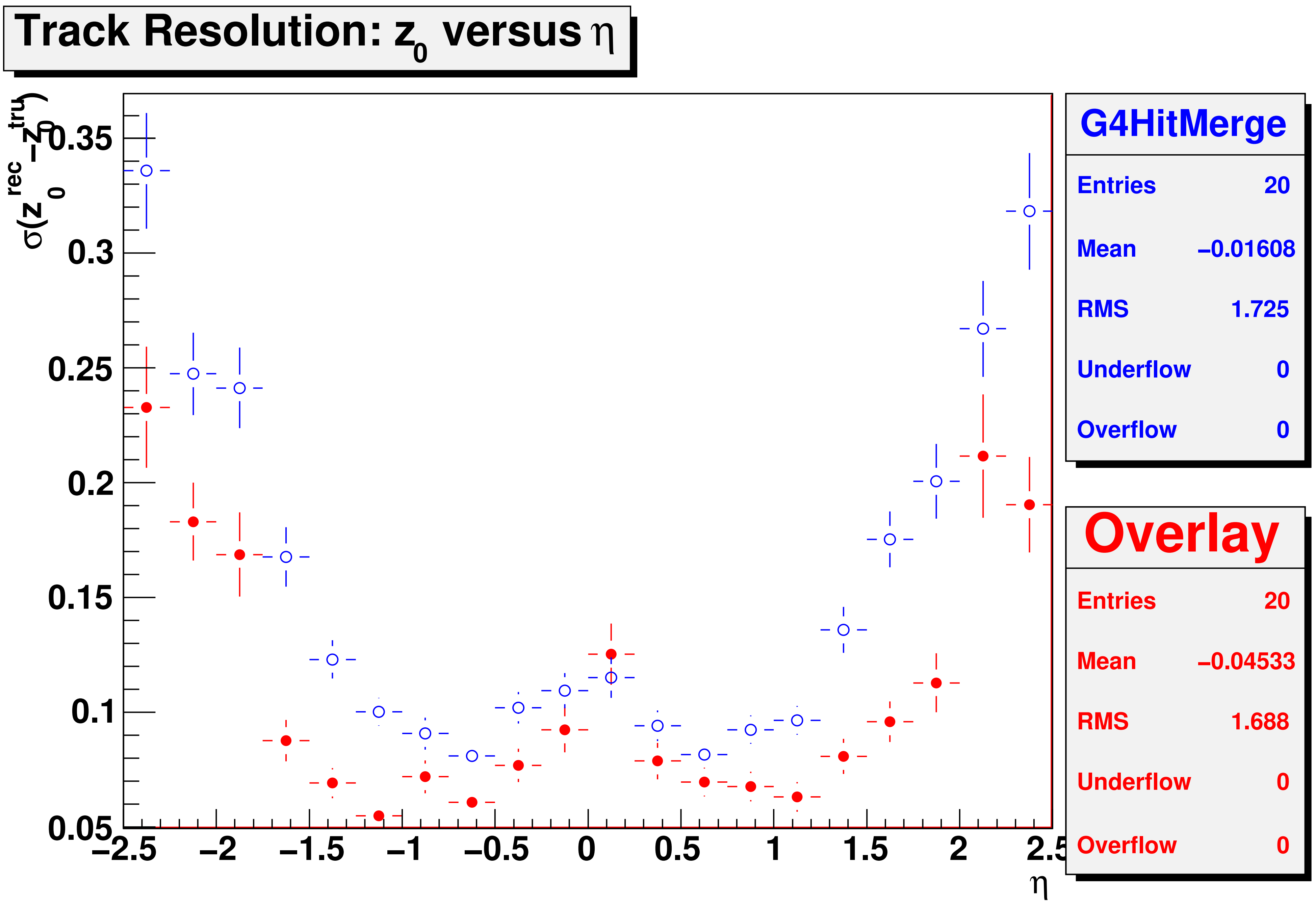
Track Resolution: d_0 versus η
$\sigma(d_0^{rec} - d_0^{tru})$
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.02078
RMS 1.465
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.0338
RMS 1.591
Underflow 0
Overflow 0



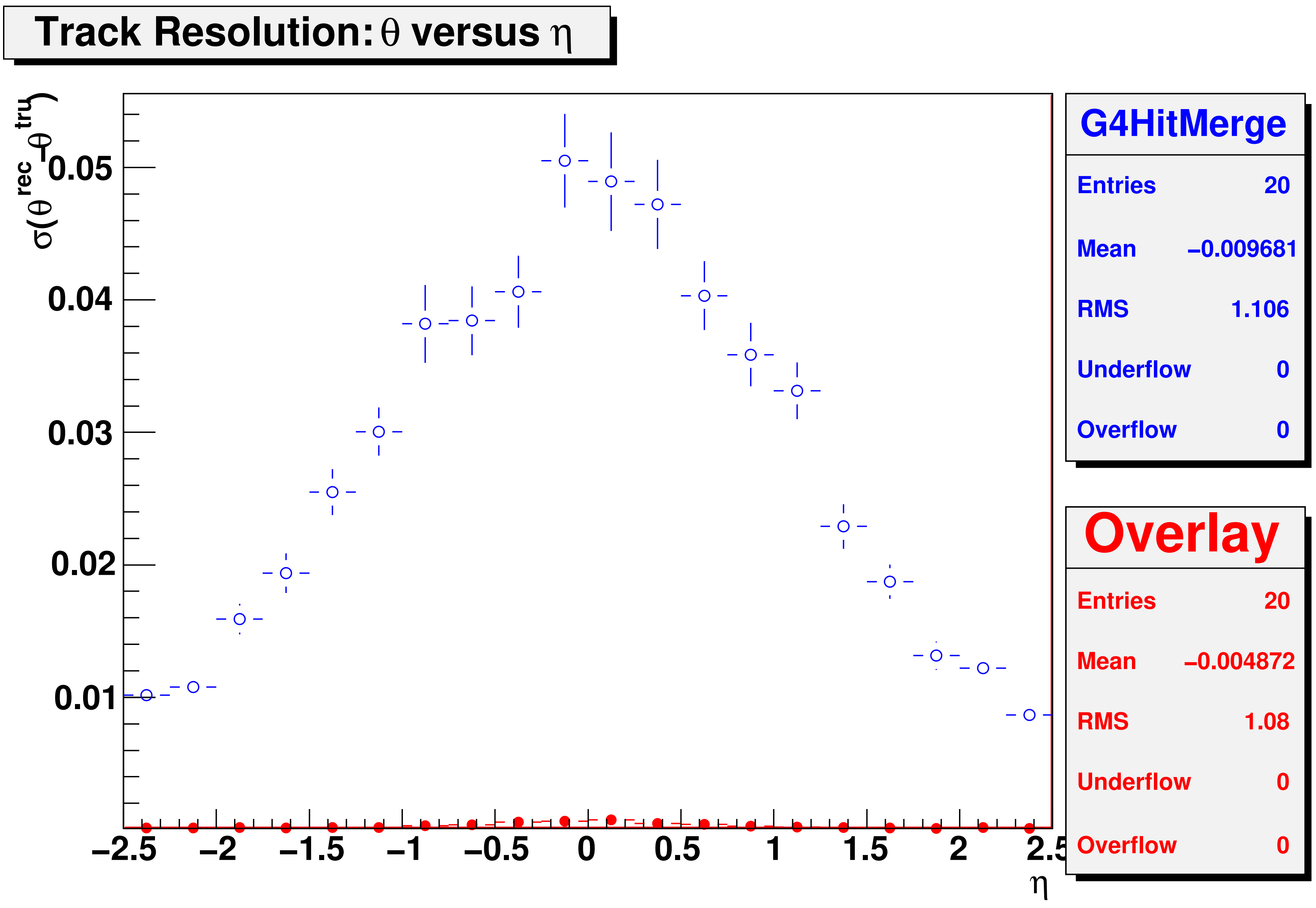
Track Resolution: φ versus η
σ(φ^rec − φ^tru)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.1501
RMS 1.479
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.06625
RMS 1.656
Underflow 0
Overflow 0



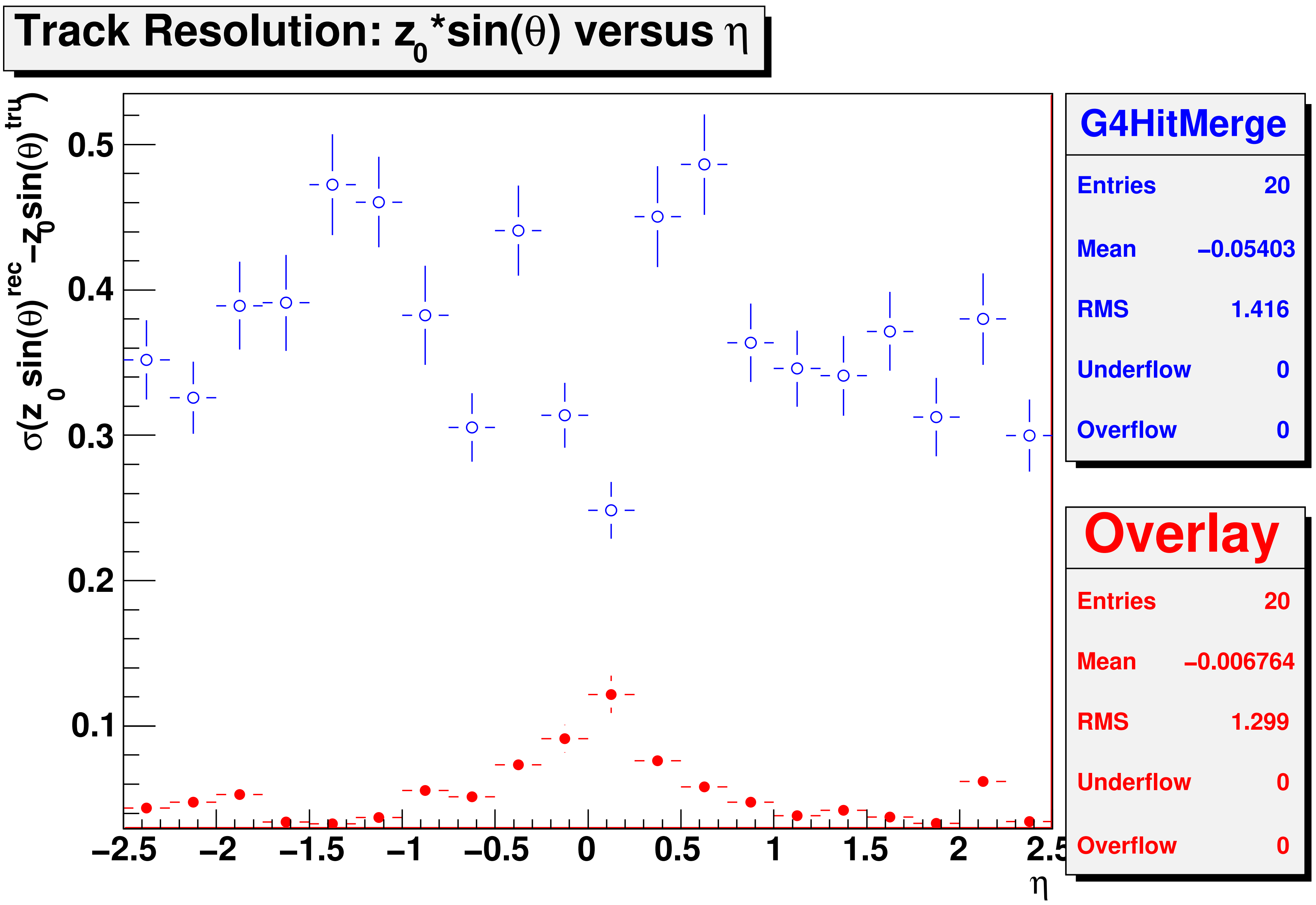
Track Resolution: 1/p_T versus η
σ(q/p_T^rec − q/p_T^tru)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.05881
RMS 1.717
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.07614
RMS 1.751
Underflow 0
Overflow 0

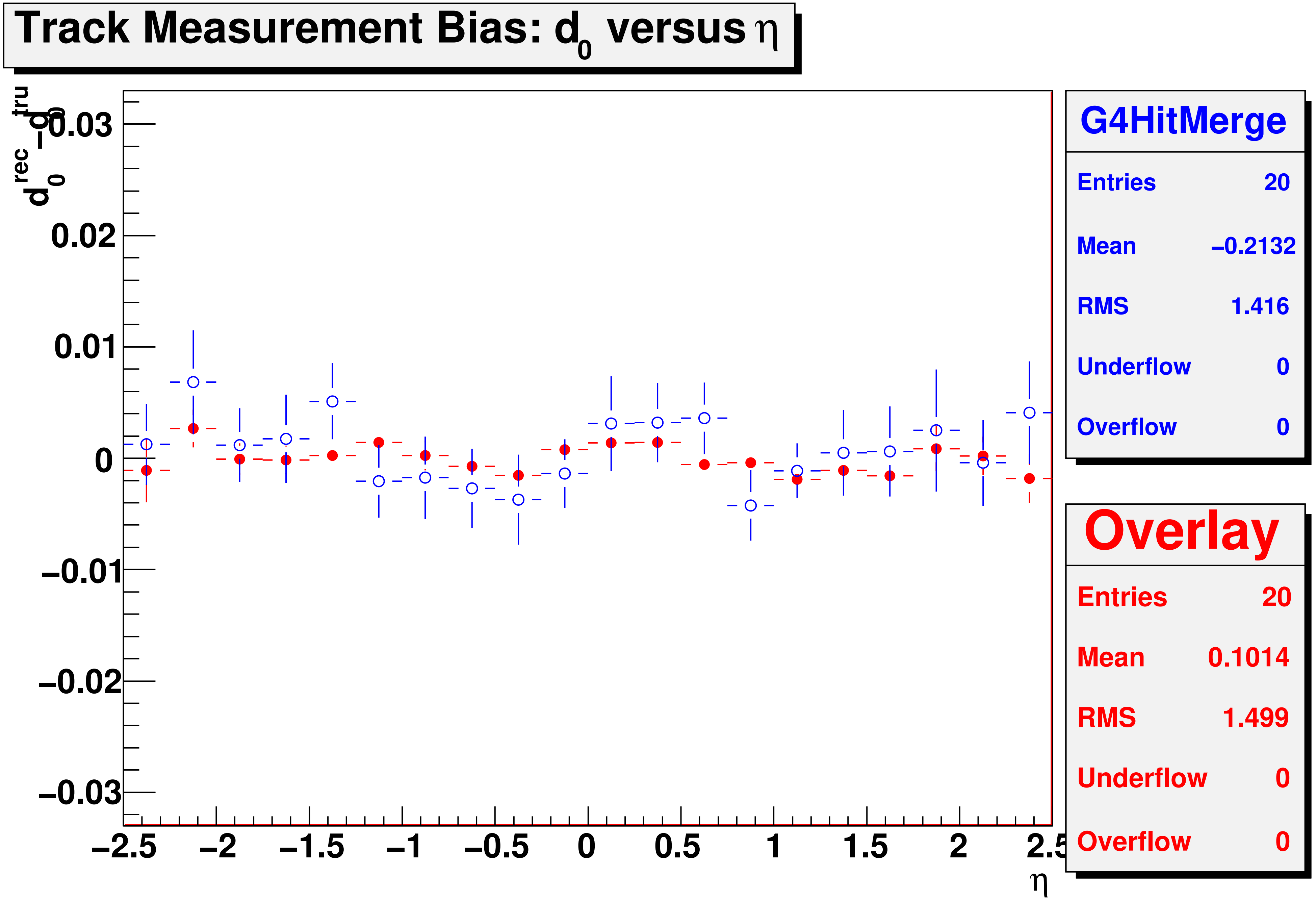


Track Resolution: z0 versus η
σ(z0rec−z0tru)
η
G4HitMerge
Entries 20
Mean −0.01608
RMS 1.725
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.04533
RMS 1.688
Underflow 0
Overflow 0

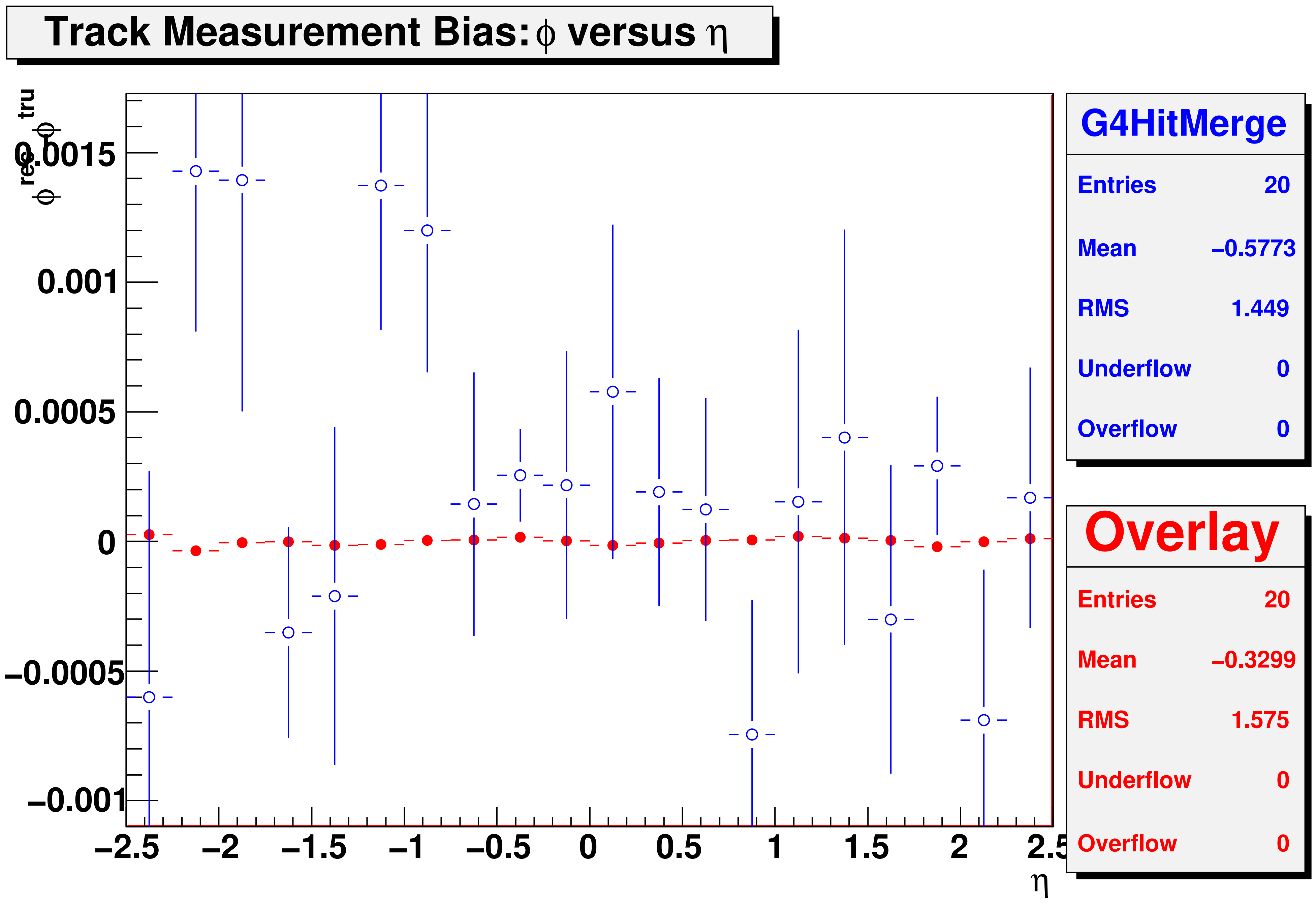


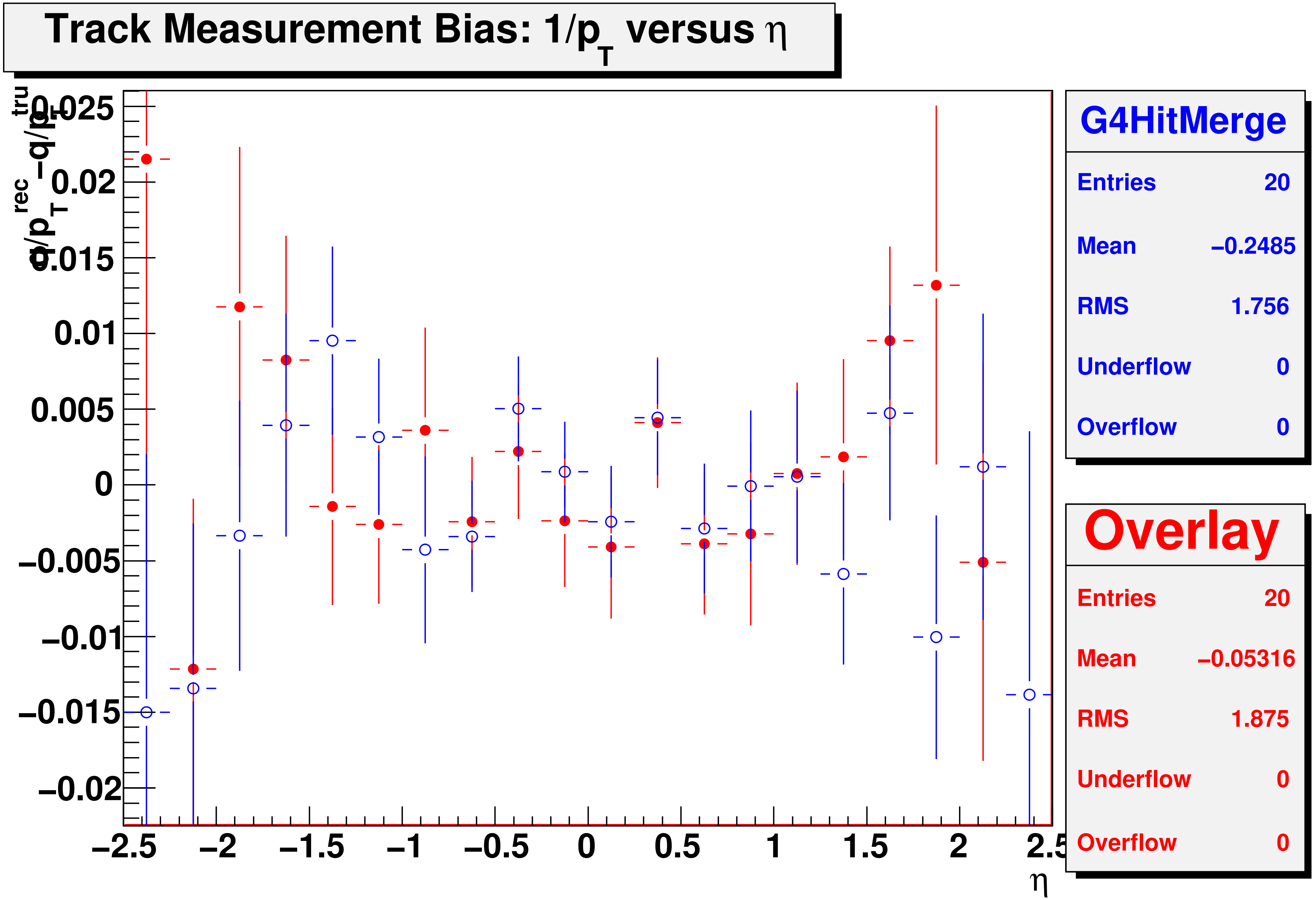
Track Resolution: θ versus η
$\sigma(\theta^{rec}-\theta^{tru})$
0.05
0.04
0.03
0.02
0.01
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.009681
RMS 1.106
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.004872
RMS 1.08
Underflow 0
Overflow 0


Track Resolution: z_0*sin(θ) versus η
$\sigma(z_0\sin(\theta)^{rec}-z_0\sin(\theta)^{tru})$
η
0.1
0.2
0.3
0.4
0.5
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
G4HitMerge
Entries 20
Mean −0.05403
RMS 1.416
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.006764
RMS 1.299
Underflow 0
Overflow 0

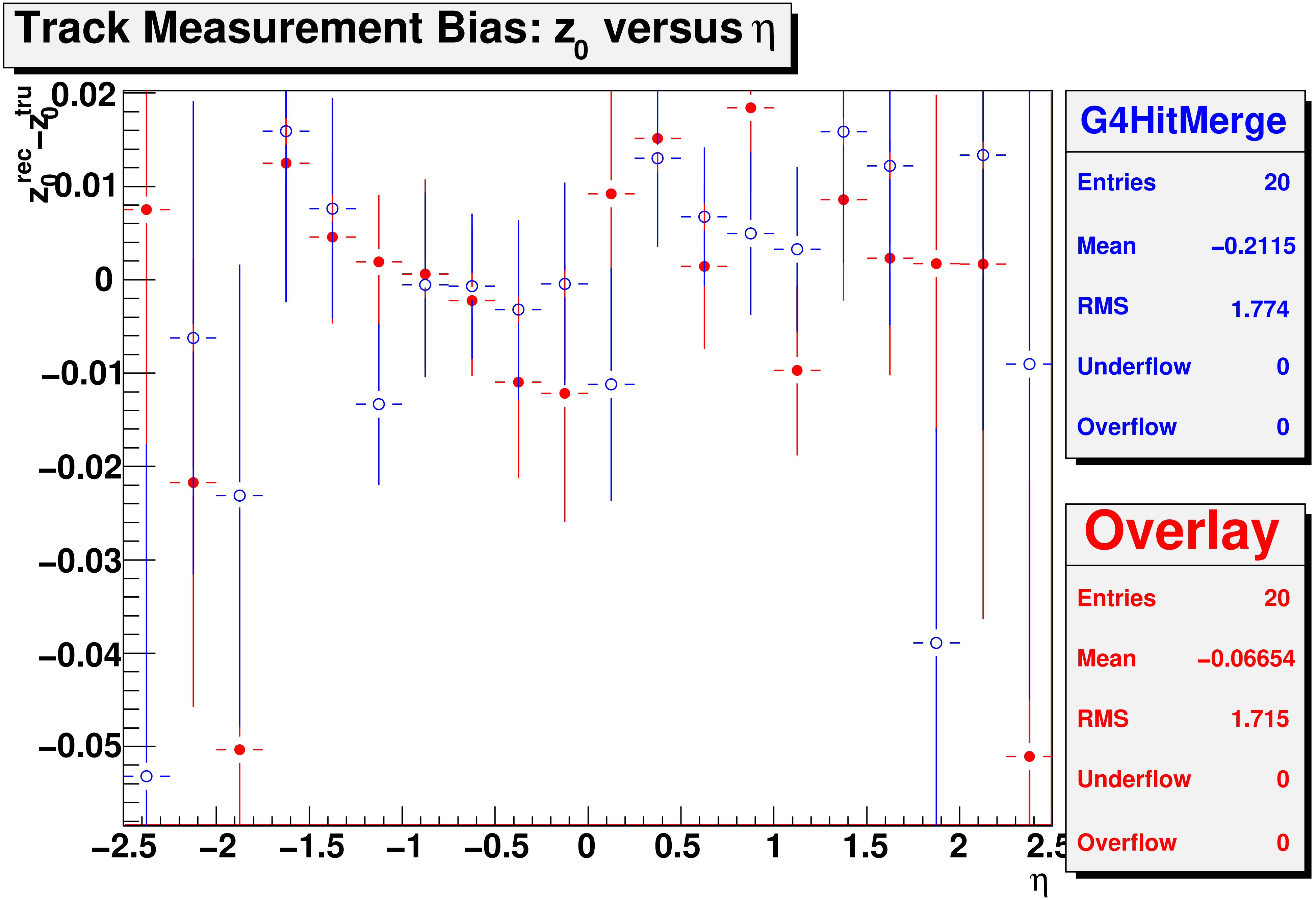


Track Measurement Bias: d_0 versus η
$d_0^{rec}-d_0^{tru}$
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.2132
RMS 1.416
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.1014
RMS 1.499
Underflow 0
Overflow 0

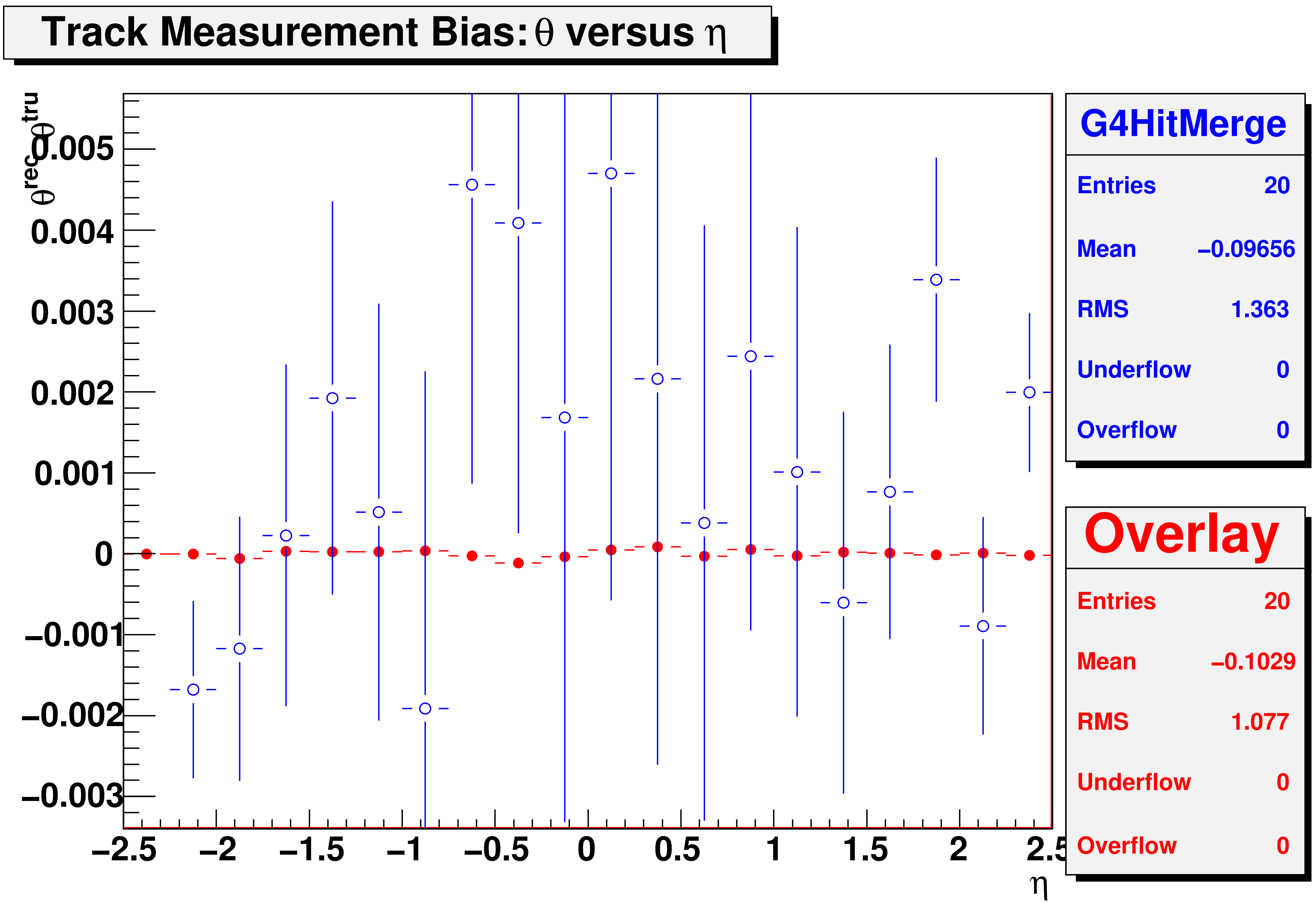

Track Measurement Bias: ϕ versus η
ϕ_rec − ϕ_tru
0.0015
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.5773
RMS 1.449
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.3299
RMS 1.575
Underflow 0
Overflow 0



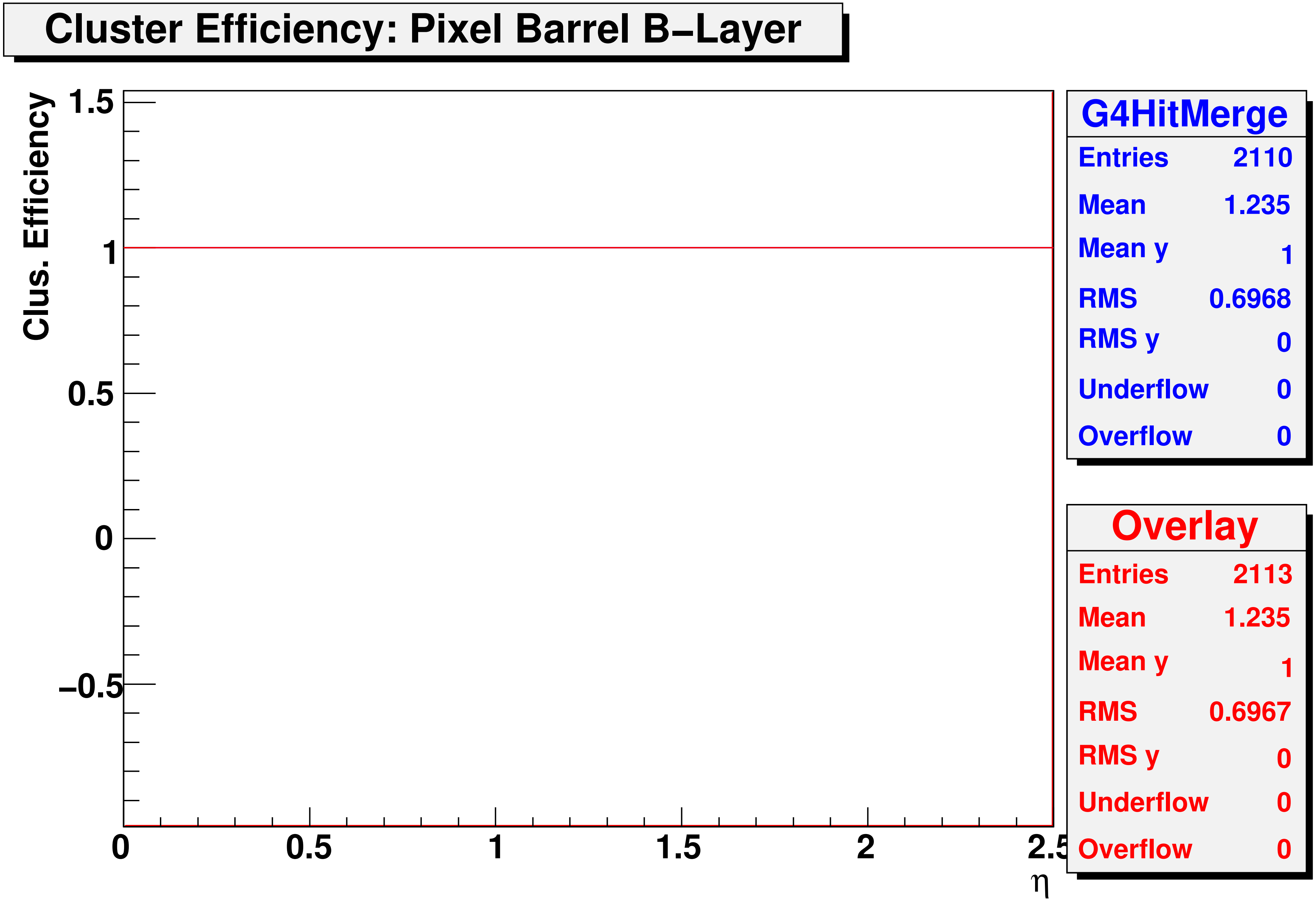
Track Measurement Bias: 1/p_T versus η
q/p_T^rec − q/p_T^tru
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.2485
RMS 1.756
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.05316
RMS 1.875
Underflow 0
Overflow 0



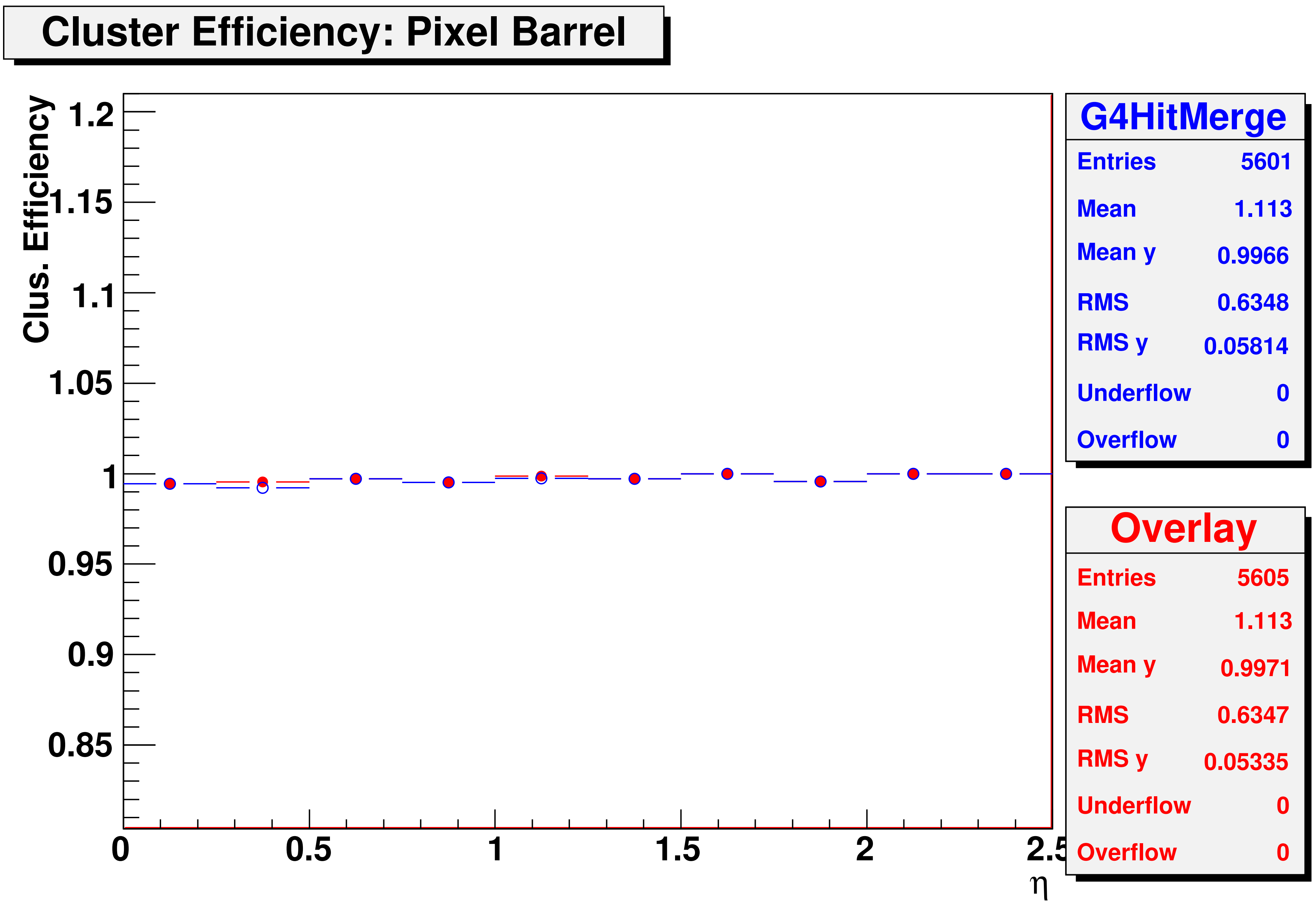
Track Measurement Bias: z_0 versus η
$z_0^{rec} - z_0^{tru}$
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.2115
RMS 1.774
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.06654
RMS 1.715
Underflow 0
Overflow 0

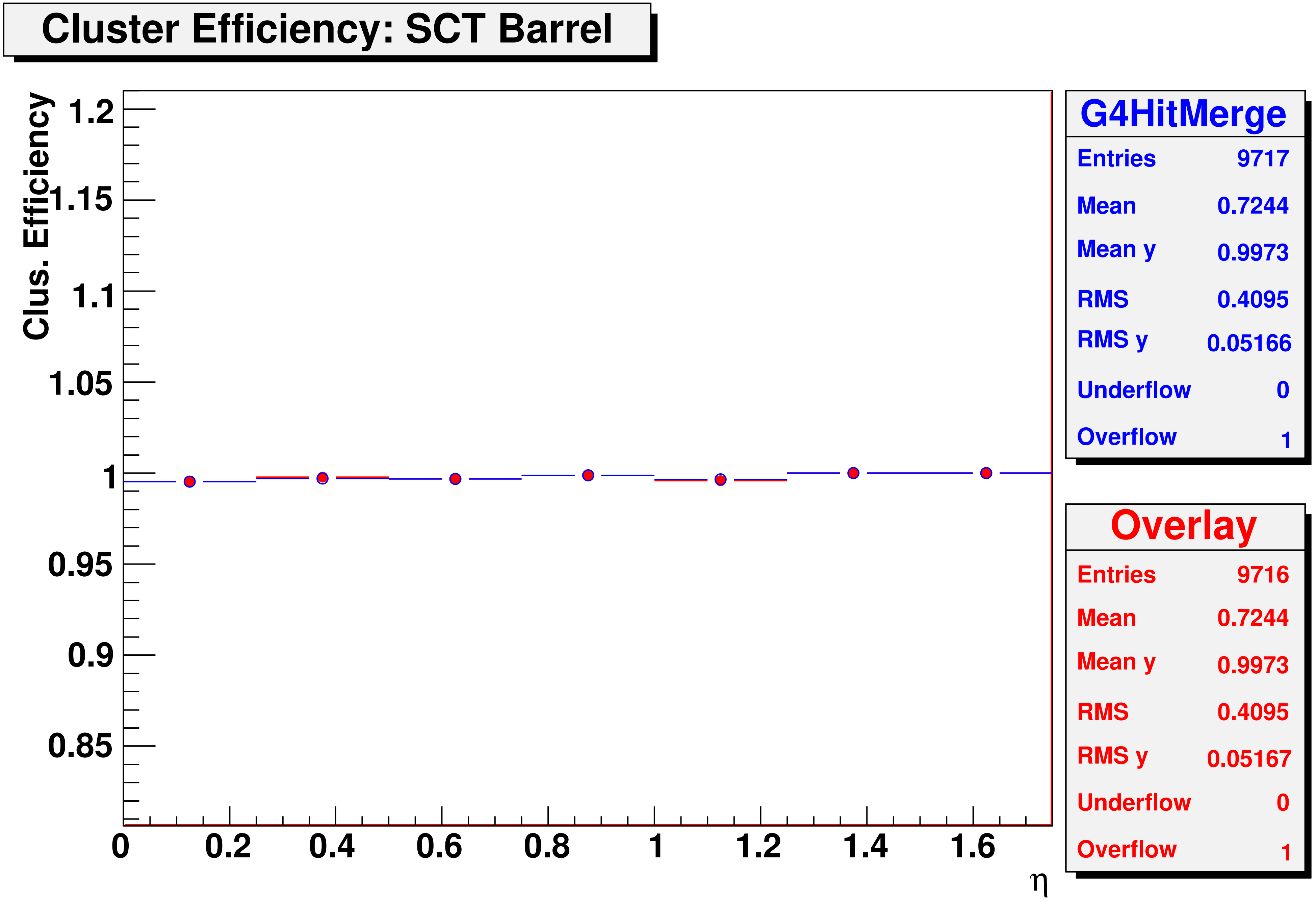


Track Measurement Bias: θ versus η
$\theta^{rec}-\theta^{tru}$
0.005
0.004
0.003
0.002
0.001
0
–0.001
–0.002
–0.003
–2.5
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean –0.09656
RMS 1.363
Underflow 0
Overflow 0
Overlay
Entries 20
Mean –0.1029
RMS 1.077
Underflow 0
Overflow 0

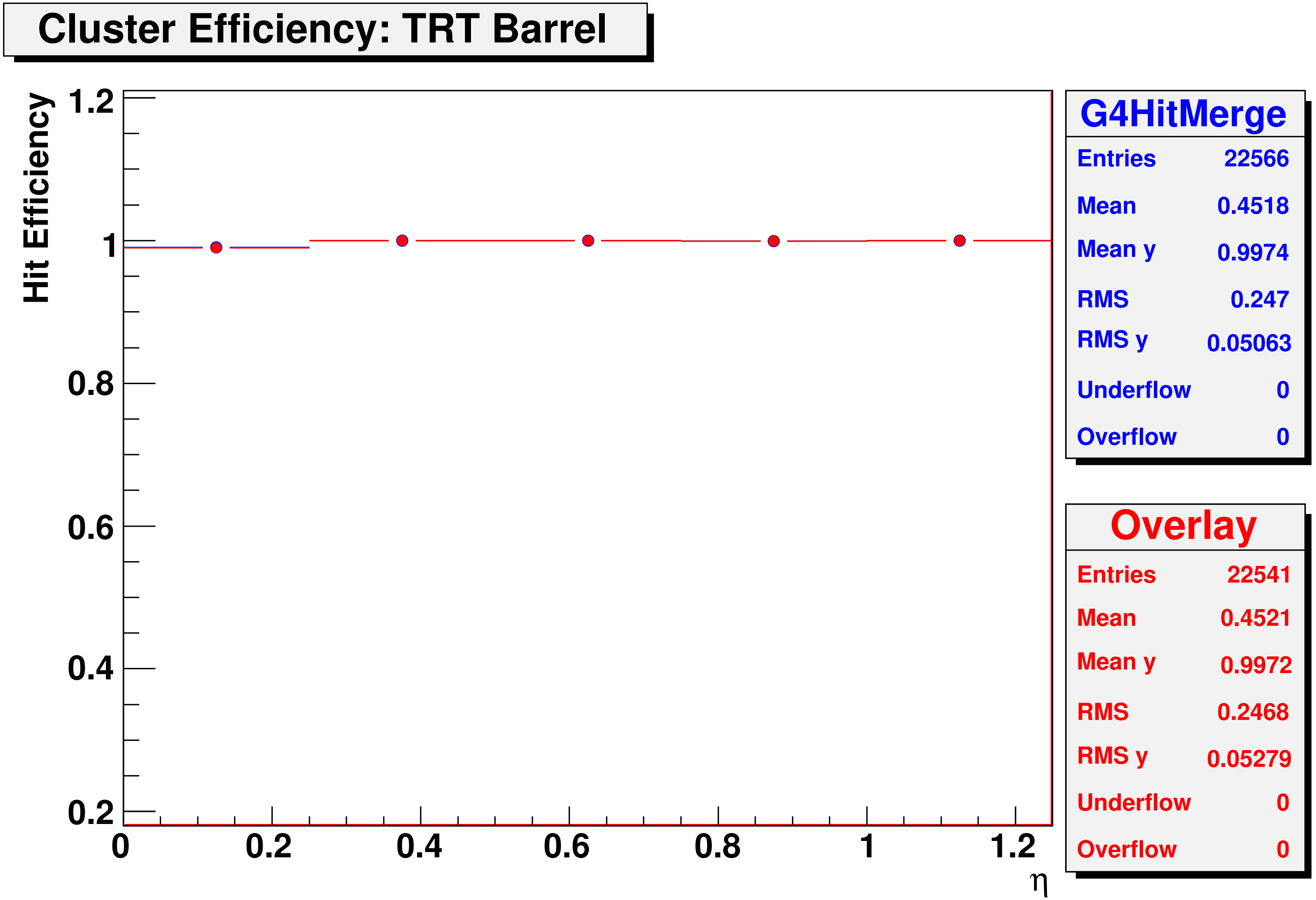


Cluster Efficiency: Pixel Barrel B−Layer
Clus. Efficiency
1.5
1
0.5
0
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 2110
Mean 1.235
Mean y 1
RMS 0.6968
RMS y 0
Underflow 0
Overflow 0
Overlay
Entries 2113
Mean 1.235
Mean y 1
RMS 0.6967
RMS y 0
Underflow 0
Overflow 0

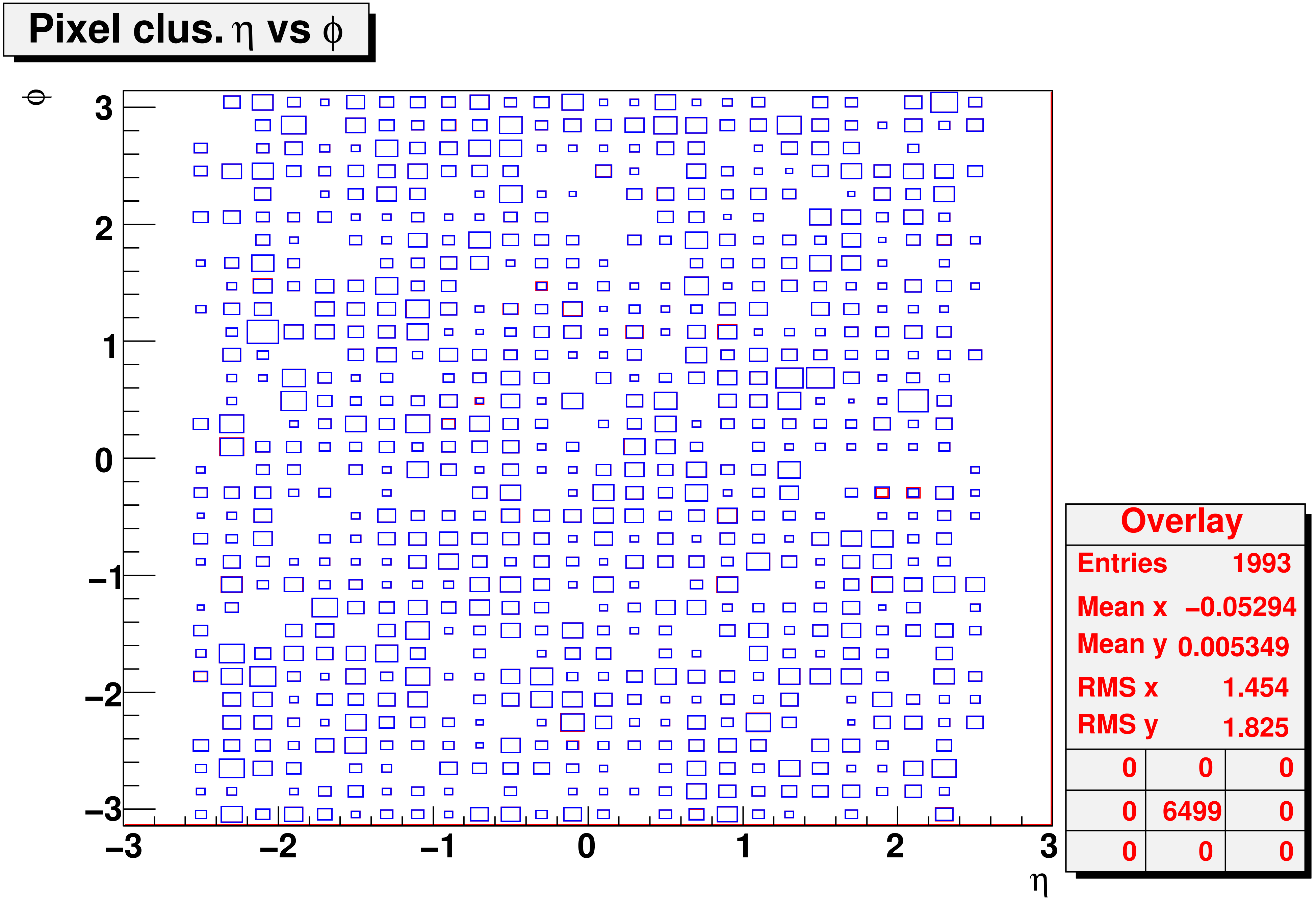

Cluster Efficiency: Pixel Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 5601
Mean 1.113
Mean y 0.9966
RMS 0.6348
RMS y 0.05814
Underflow 0
Overflow 0
Overlay
Entries 5605
Mean 1.113
Mean y 0.9971
RMS 0.6347
RMS y 0.05335
Underflow 0
Overflow 0

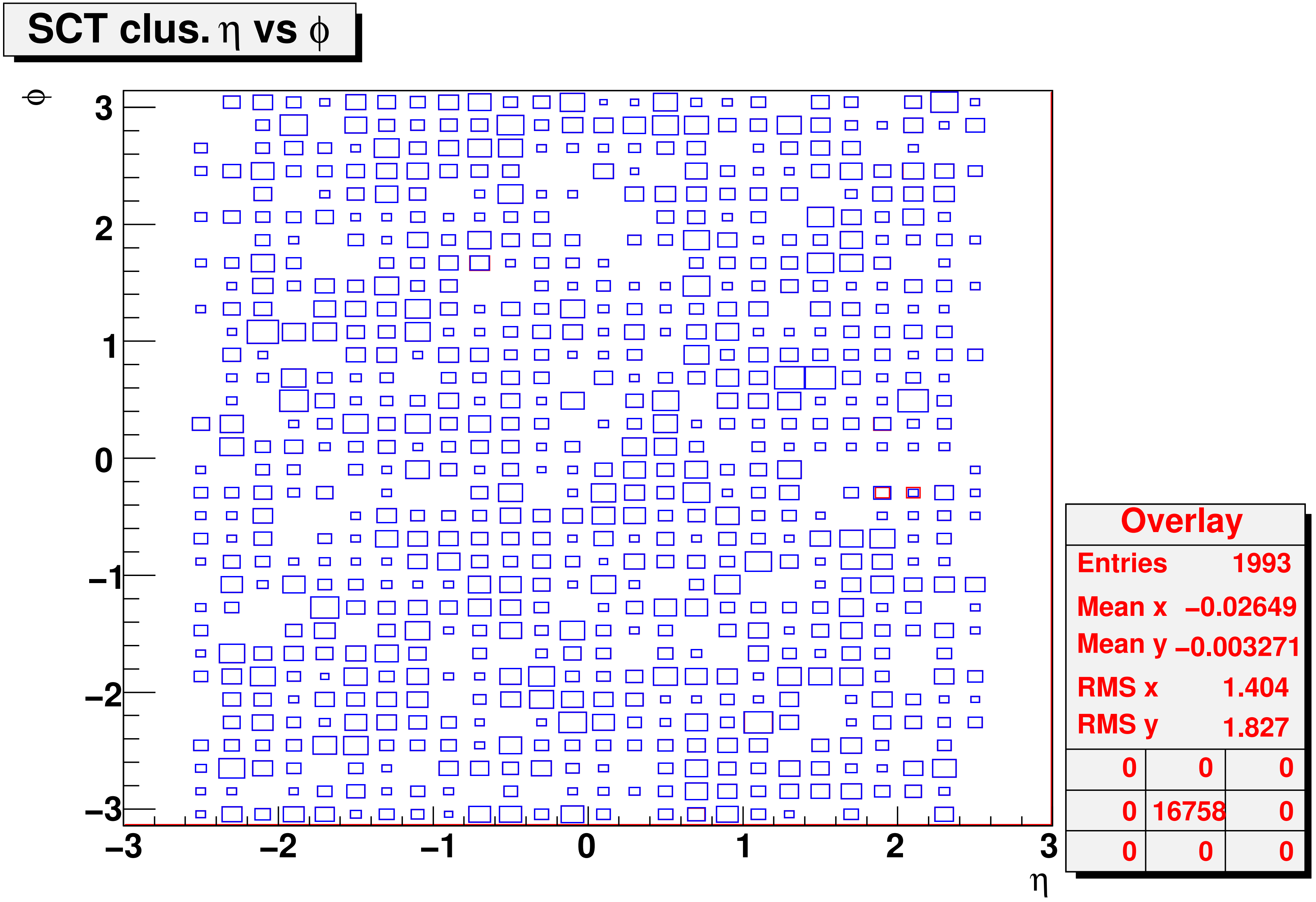


Cluster Efficiency: SCT Barrel
Clus. Efficiency
1.2
1.15
1.1
1.05
1
0.95
0.9
0.85
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
η
G4HitMerge
Entries 9717
Mean 0.7244
Mean y 0.9973
RMS 0.4095
RMS y 0.05166
Underflow 0
Overflow 1
Overlay
Entries 9716
Mean 0.7244
Mean y 0.9973
RMS 0.4095
RMS y 0.05167
Underflow 0
Overflow 1

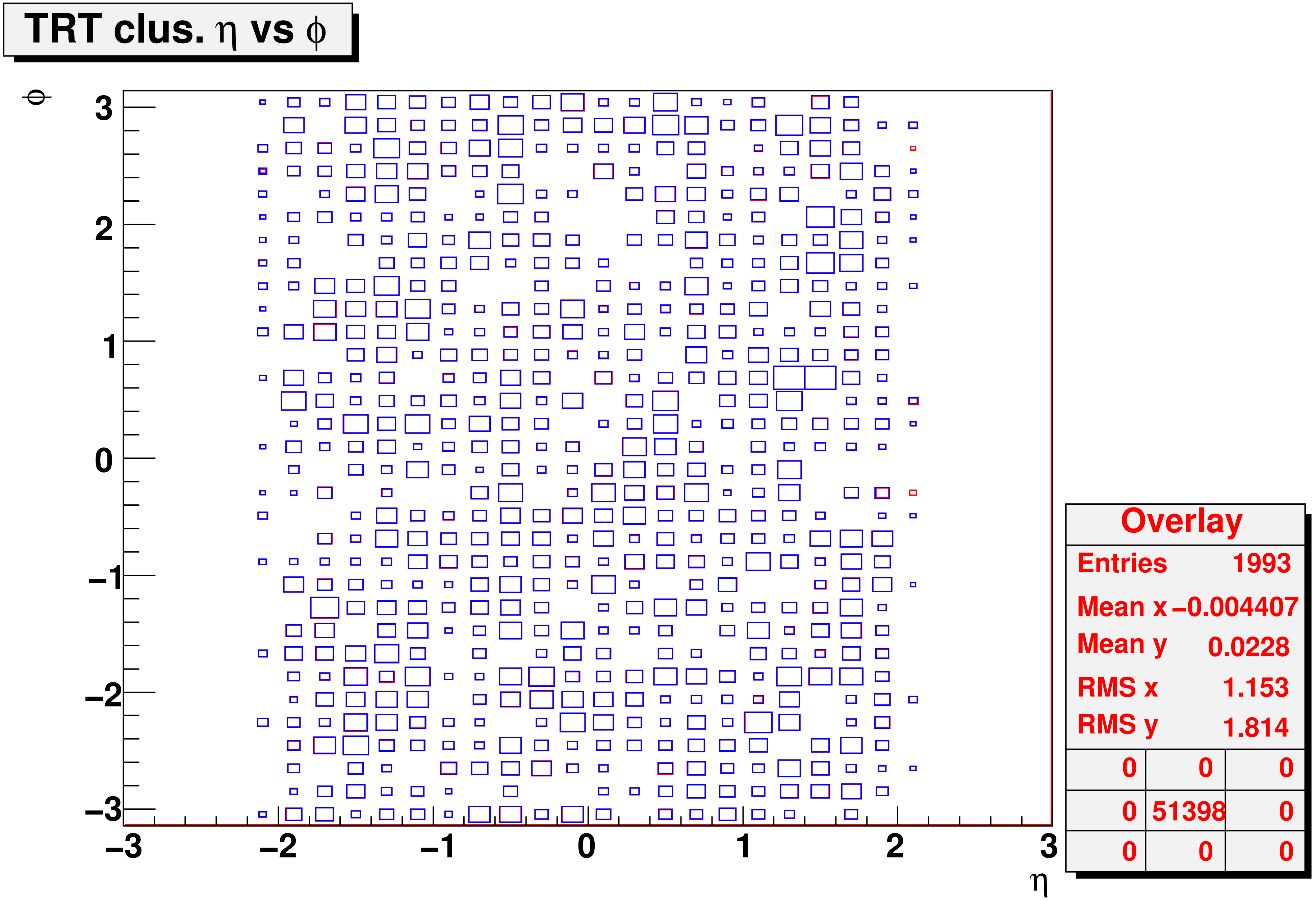


Cluster Efficiency: TRT Barrel
Hit Efficiency
1.2
1
0.8
0.6
0.4
0.2
0
0.2
0.4
0.6
0.8
1
1.2
η
G4HitMerge
Entries 22566
Mean 0.4518
Mean y 0.9974
RMS 0.247
RMS y 0.05063
Underflow 0
Overflow 0
Overlay
Entries 22541
Mean 0.4521
Mean y 0.9972
RMS 0.2468
RMS y 0.05279
Underflow 0
Overflow 0

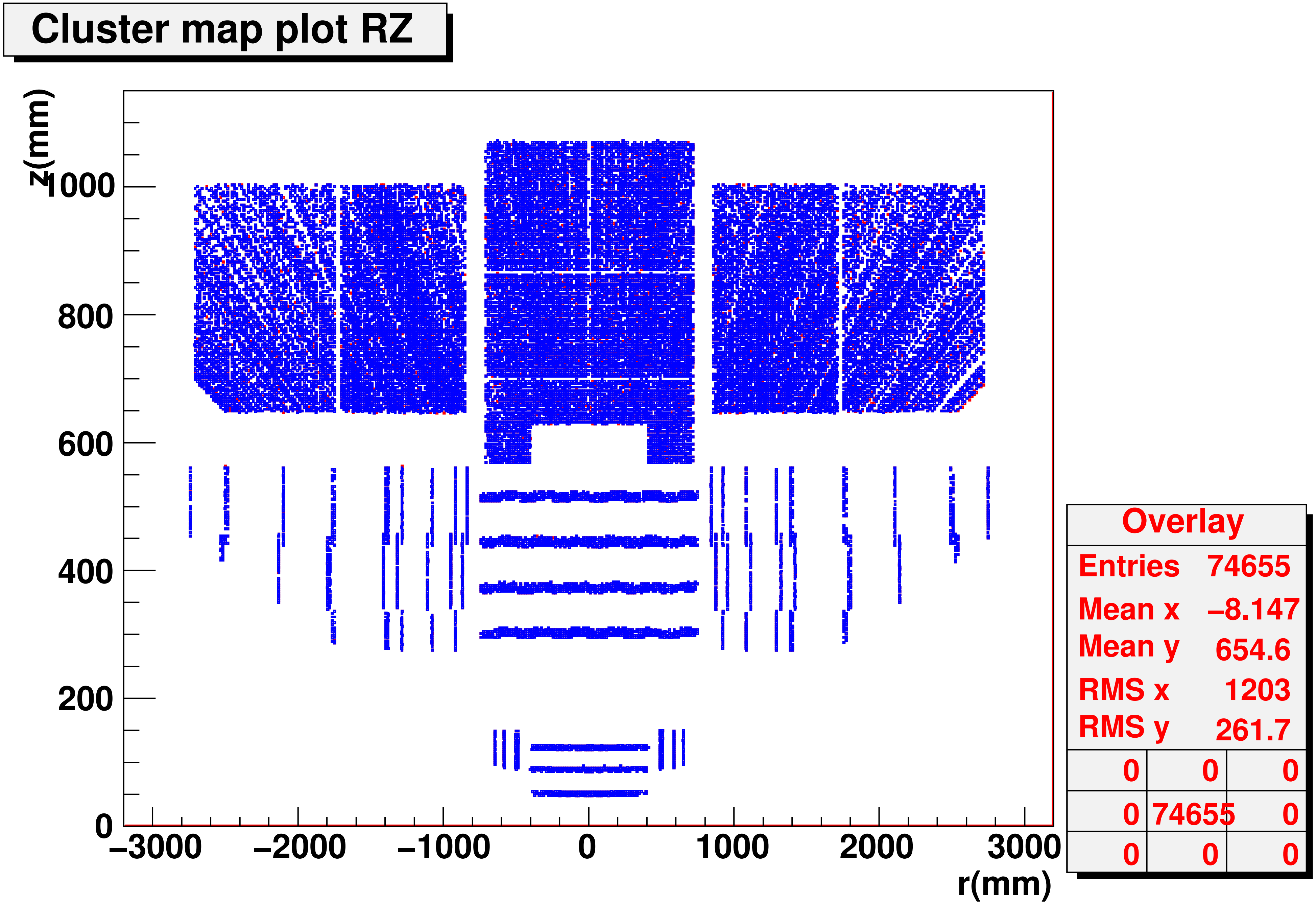

Pixel clus. η vs φ
φ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1993
Mean x −0.05294
Mean y 0.005349
RMS x 1.454
RMS y 1.825
0 0 0
0 6499 0
0 0 0

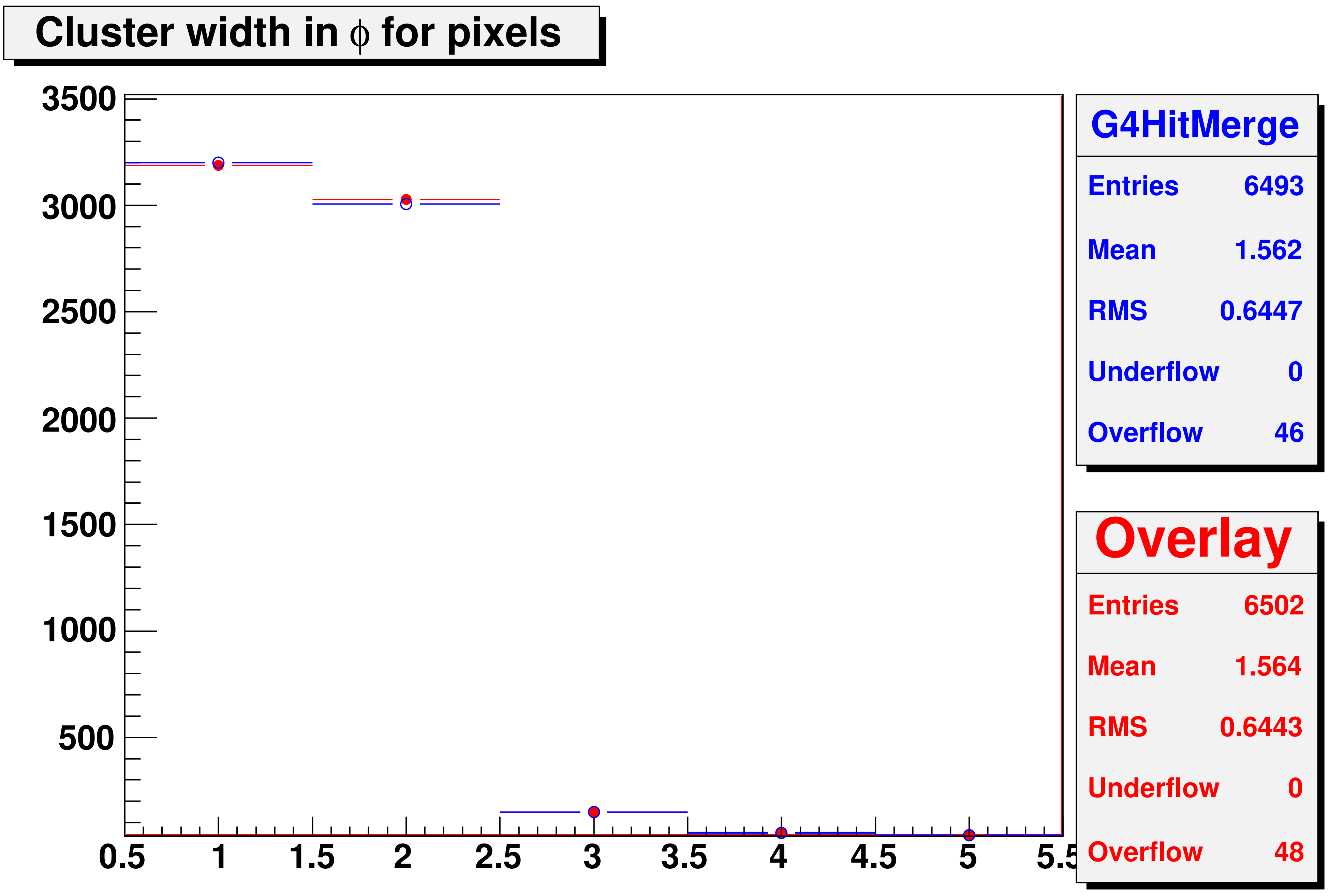


SCT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1993
Mean x −0.02649
Mean y −0.003271
RMS x 1.404
RMS y 1.827
0 0 0
0 16758 0
0 0 0

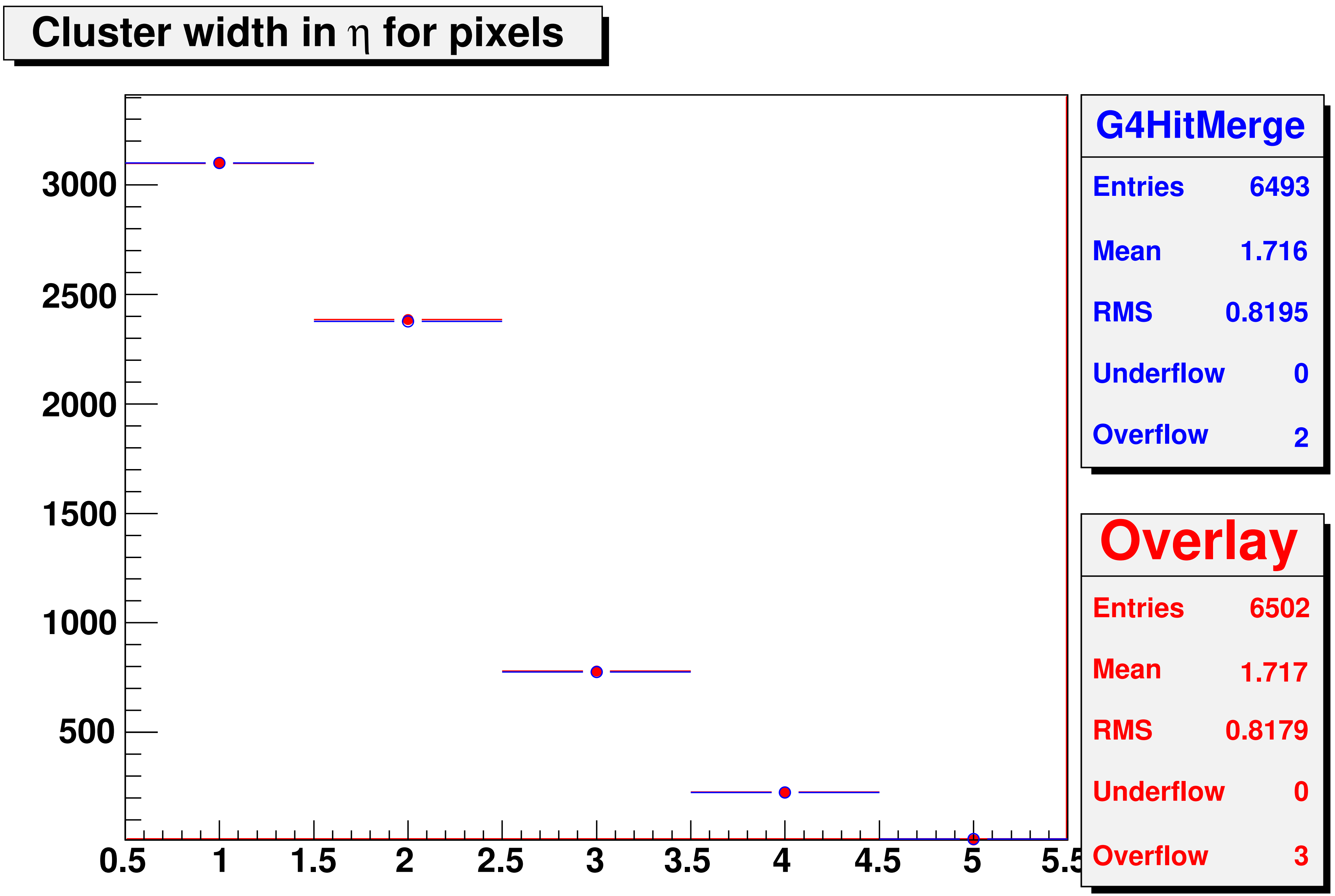


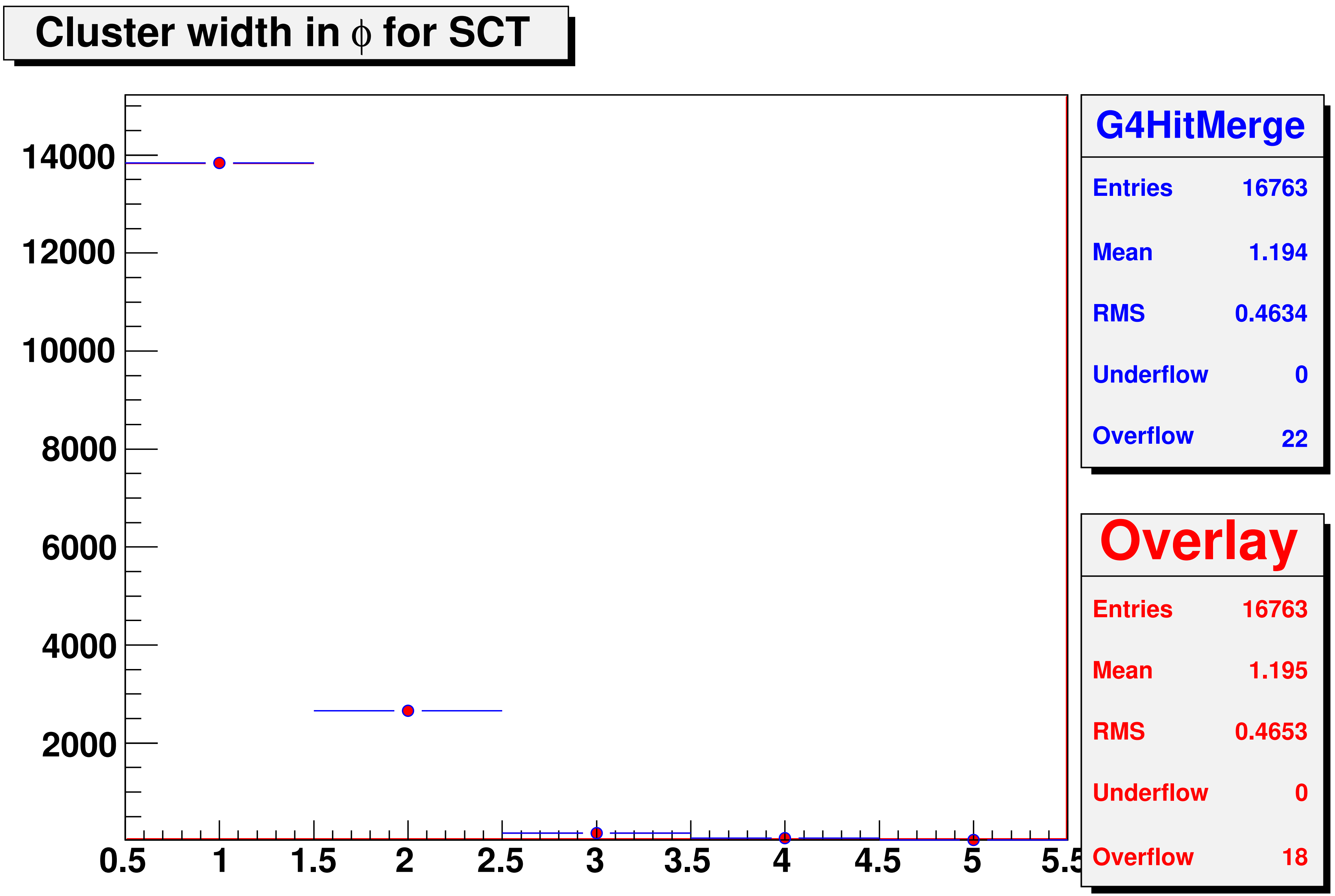
TRT clus. η vs ϕ
ϕ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1993
Mean x −0.004407
Mean y 0.0228
RMS x 1.153
RMS y 1.814
0 0 0
0 51398 0
0 0 0


Cluster map plot RZ
z(mm)
1000
800
600
400
200
0
-3000
-2000
-1000
0
1000
2000
3000
r(mm)
Overlay
Entries 74655
Mean x -8.147
Mean y 654.6
RMS x 1203
RMS y 261.7
0 0 0
0 74655 0
0 0 0

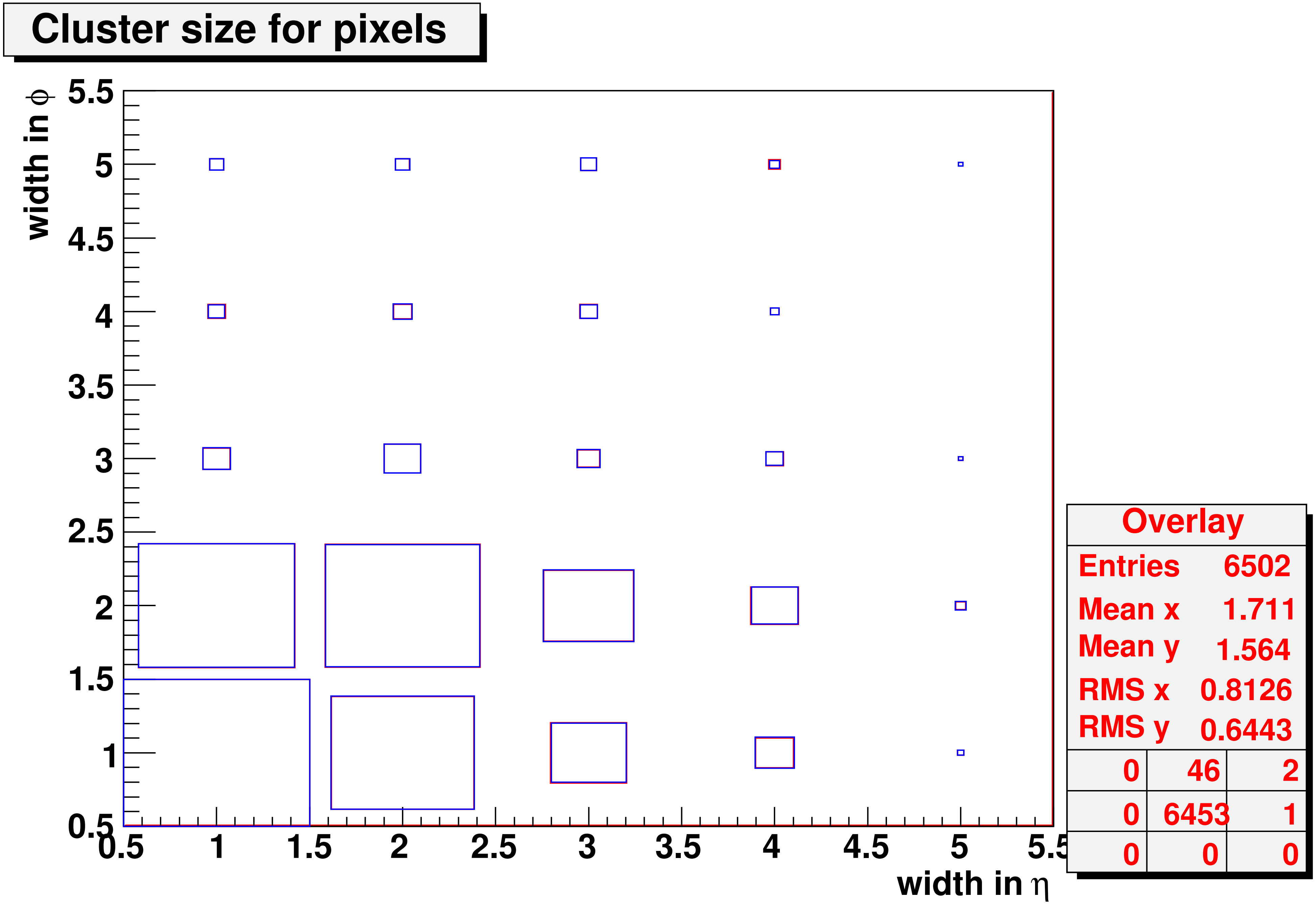


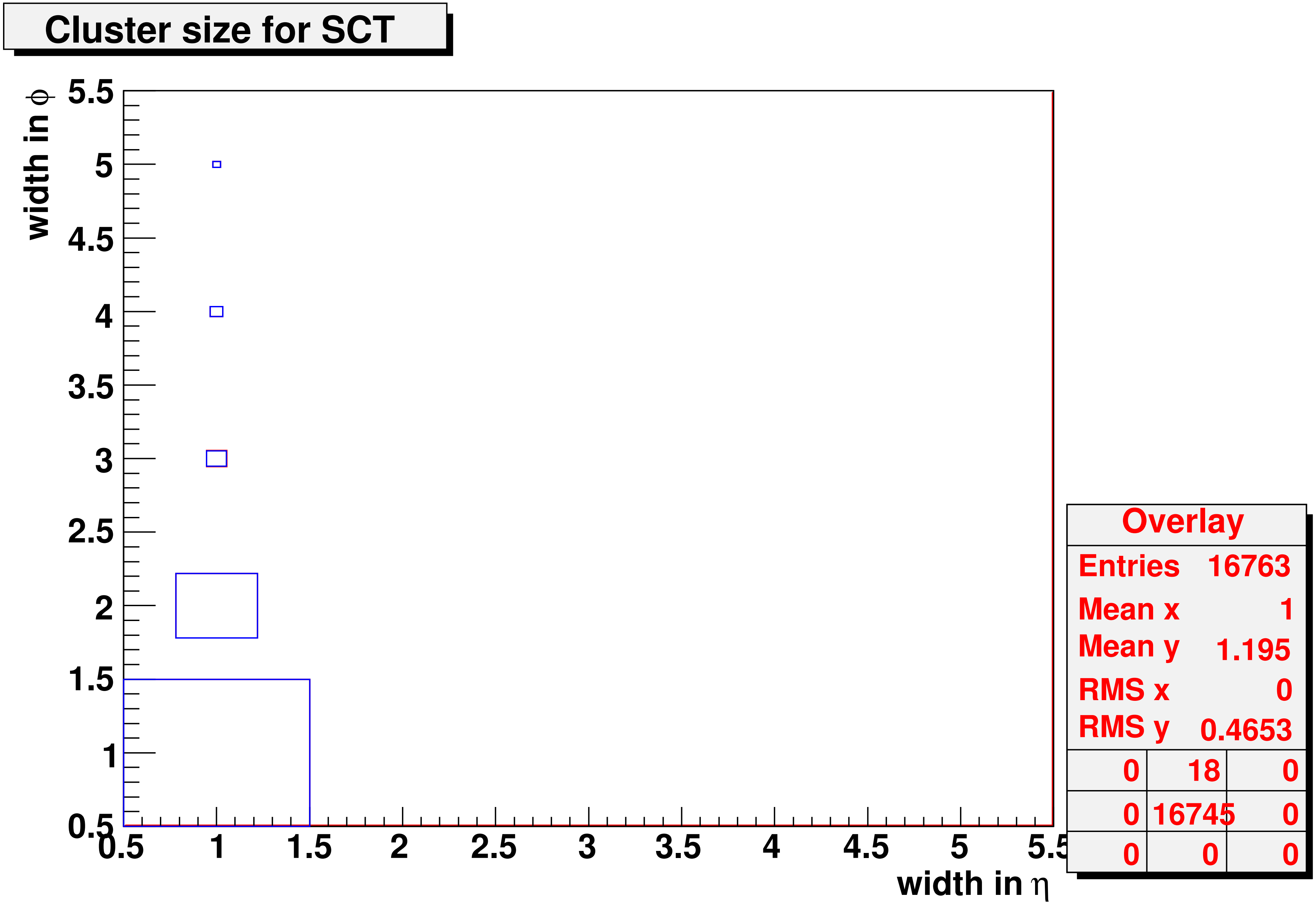
Cluster width in ϕ for pixels
3500
3000
2500
2000
1500
1000
500
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 6493
Mean 1.562
RMS 0.6447
Underflow 0
Overflow 46
Overlay
Entries 6502
Mean 1.564
RMS 0.6443
Underflow 0
Overflow 48


Cluster width in η for pixels
G4HitMerge
Entries 6493
Mean 1.716
RMS 0.8195
Underflow 0
Overflow 2
Overlay
Entries 6502
Mean 1.717
RMS 0.8179
Underflow 0
Overflow 3
3000
2500
2000
1500
1000
500
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5

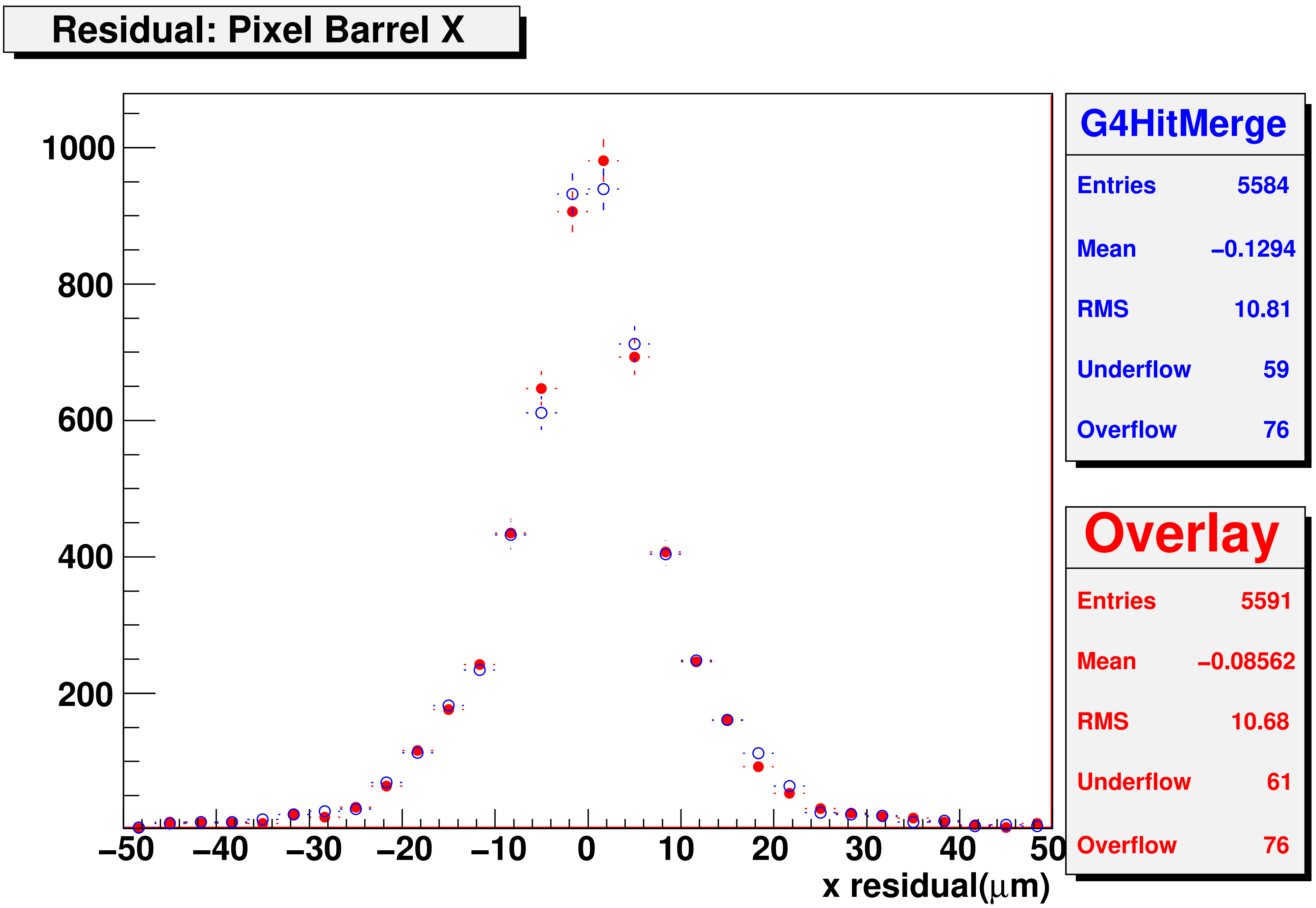


Cluster width in ϕ for SCT
G4HitMerge
Entries 16763
Mean 1.194
RMS 0.4634
Underflow 0
Overflow 22
Overlay
Entries 16763
Mean 1.195
RMS 0.4653
Underflow 0
Overflow 18
14000
12000
10000
8000
6000
4000
2000
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5

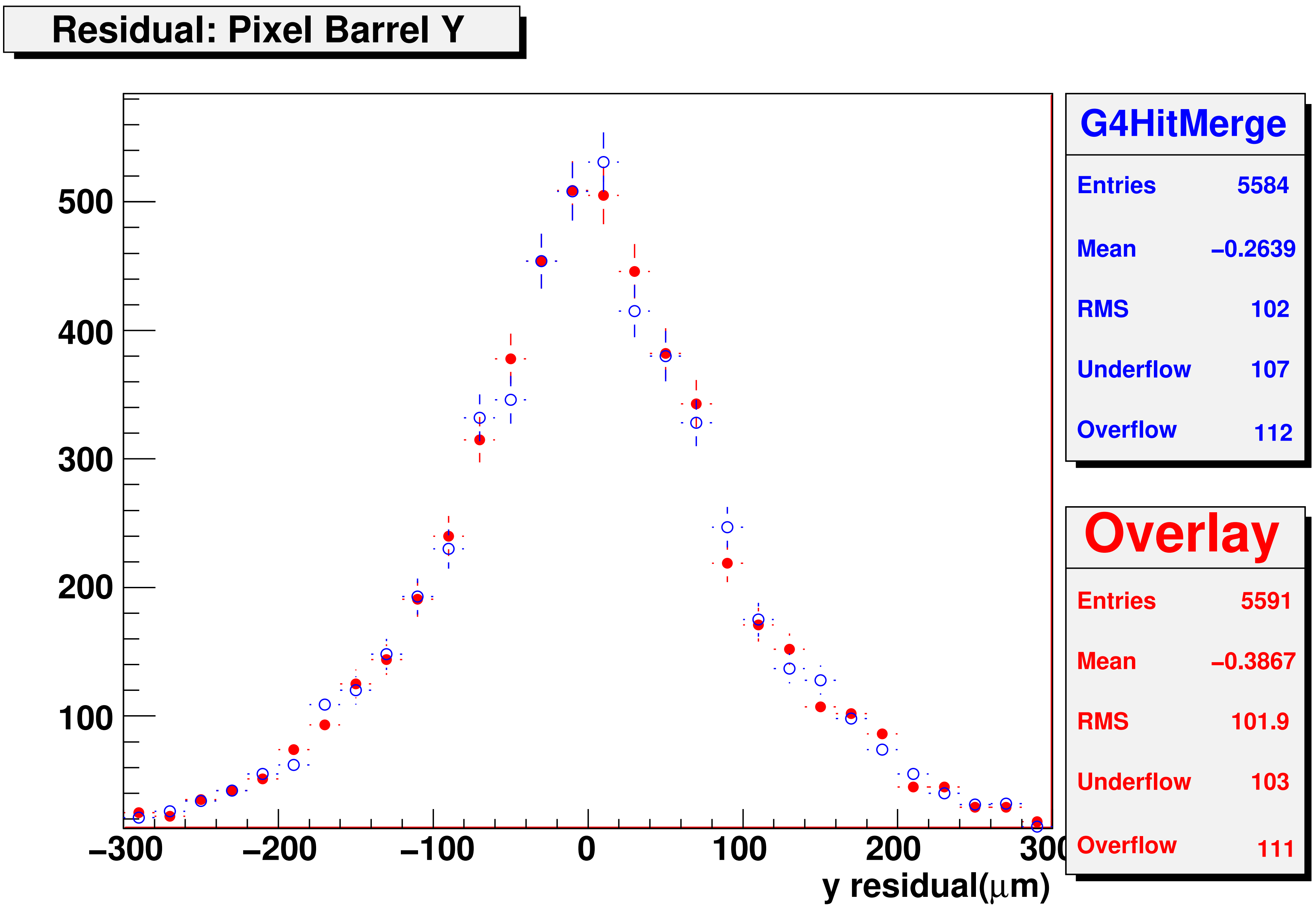

Cluster size for pixels
width in ϕ
width in η
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 6502
Mean x 1.711
Mean y 1.564
RMS x 0.8126
RMS y 0.6443
0 46 2
0 6453 1
0 0 0

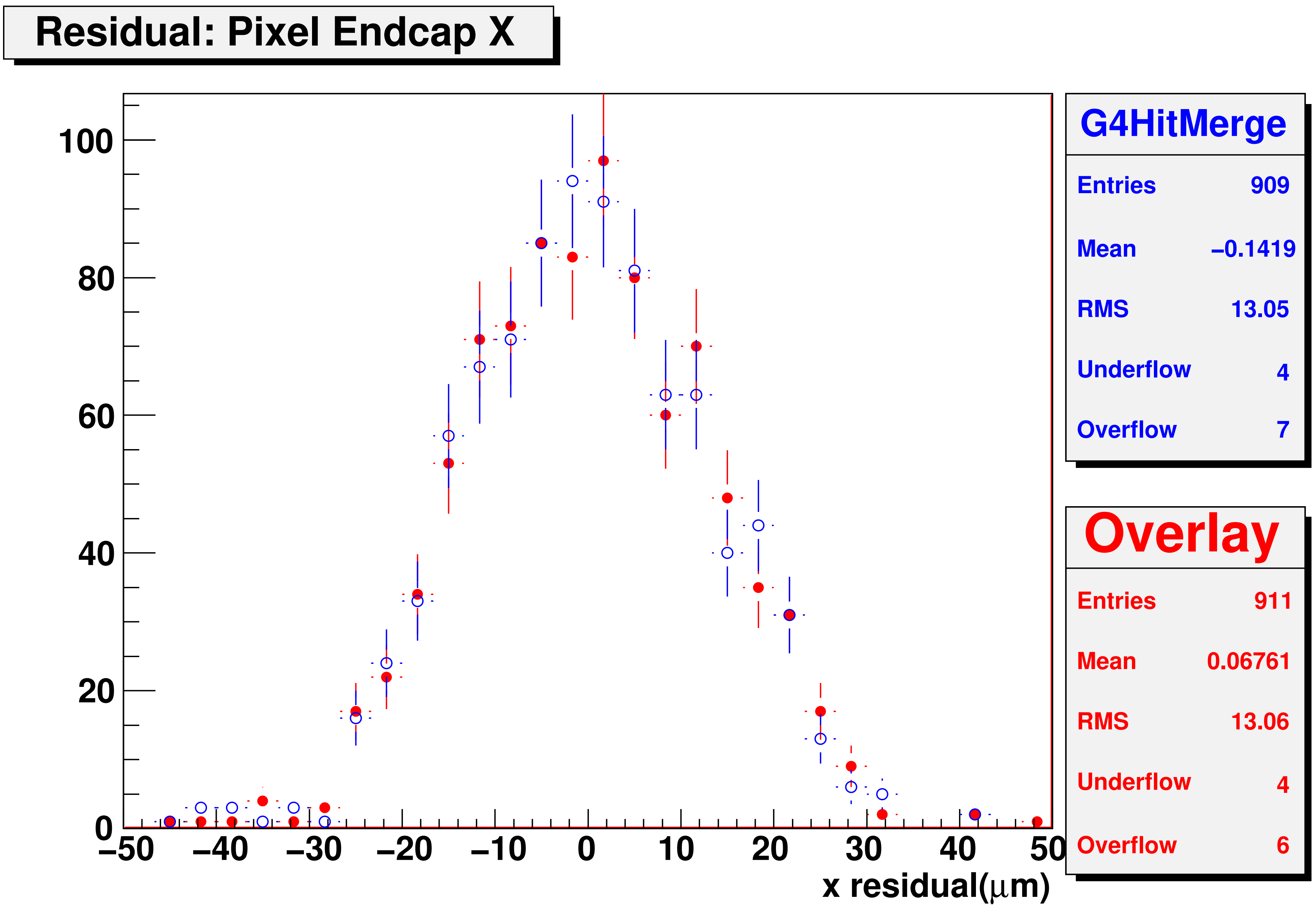


Cluster size for SCT
width in ϕ
width in η
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 16763
Mean x 1
Mean y 1.195
RMS x 0
RMS y 0.4653
0 18 0
0 16745 0
0 0 0

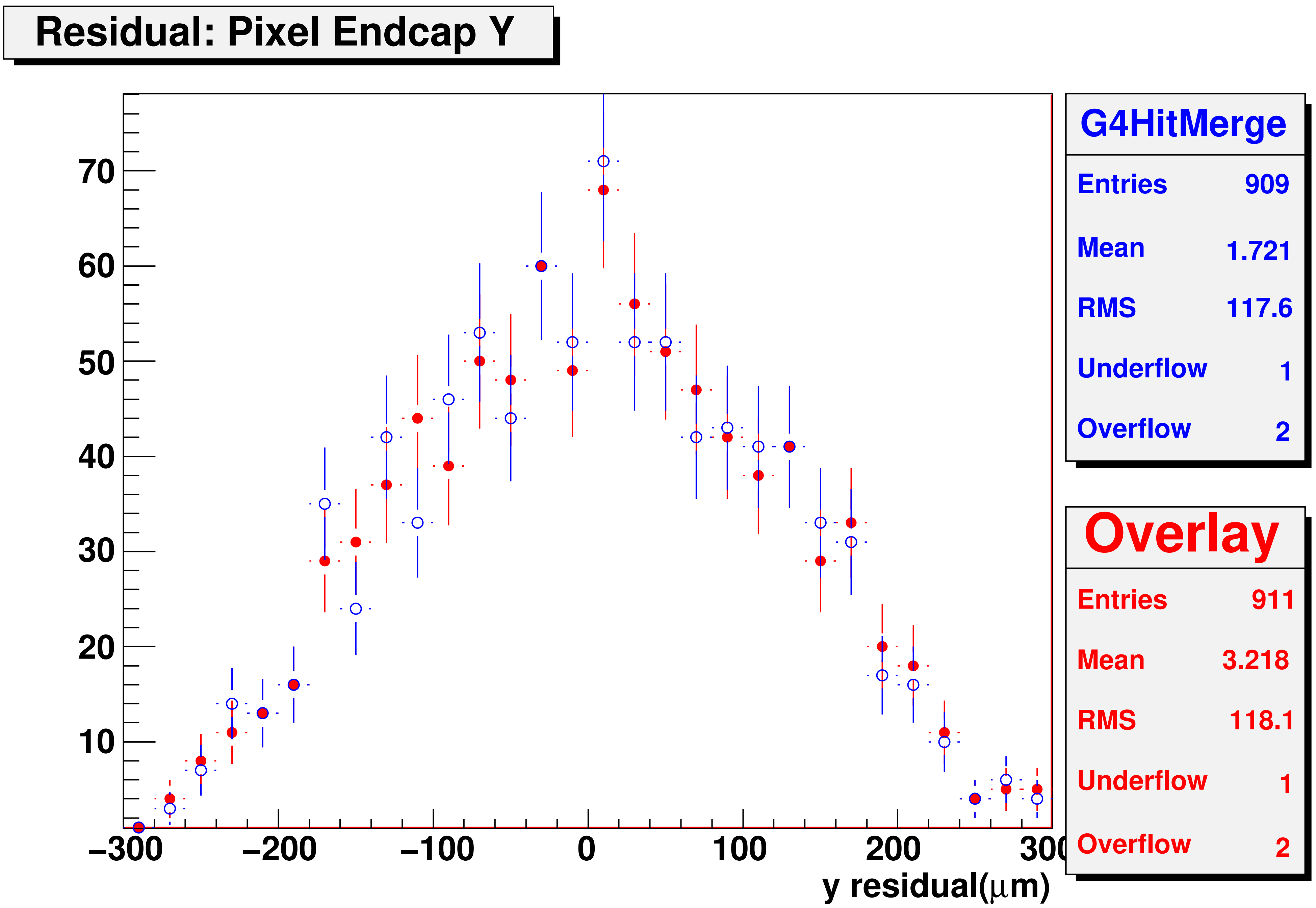


Residual: Pixel Barrel X
1000
800
600
400
200
–50
–40
–30
–20
–10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 5584
Mean –0.1294
RMS 10.81
Underflow 59
Overflow 76
Overlay
Entries 5591
Mean –0.08562
RMS 10.68
Underflow 61
Overflow 76

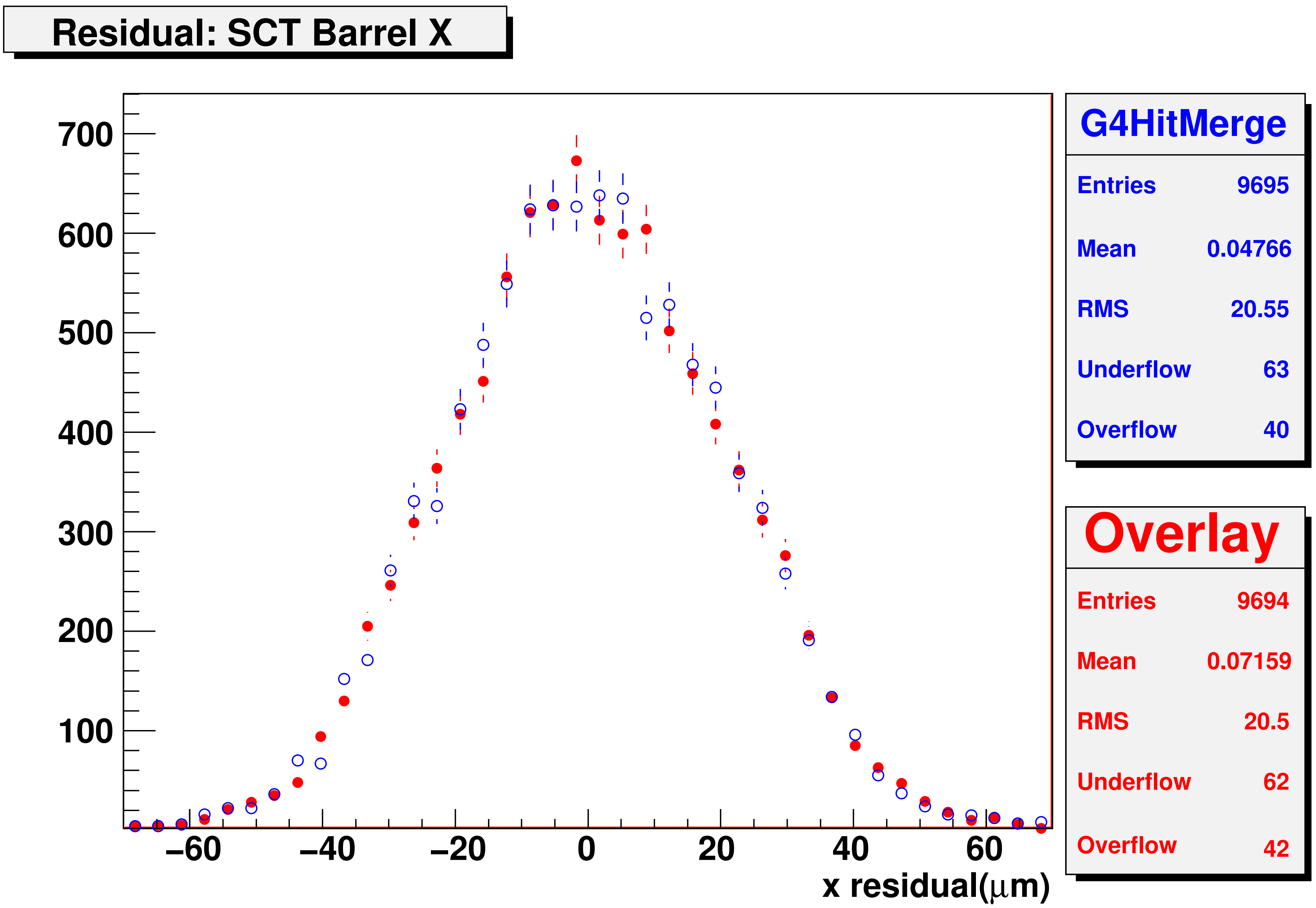

Residual: Pixel Barrel Y
500
400
300
200
100
−300
−200
−100
0
100
200
300
y residual(μm)
G4HitMerge
Entries 5584
Mean −0.2639
RMS 102
Underflow 107
Overflow 112
Overlay
Entries 5591
Mean −0.3867
RMS 101.9
Underflow 103
Overflow 111



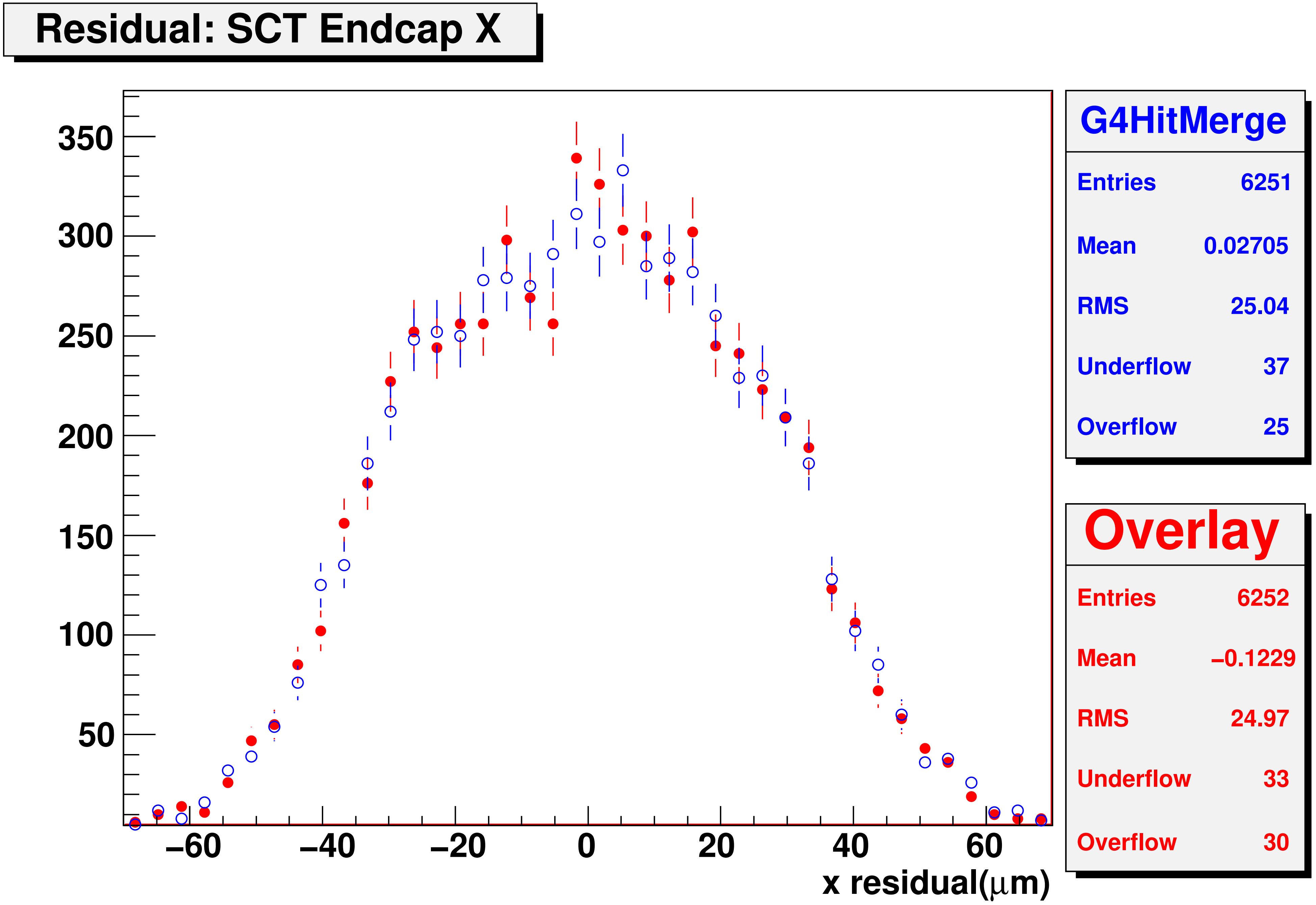
Residual: Pixel Endcap X
G4HitMerge
Entries 909
Mean −0.1419
RMS 13.05
Underflow 4
Overflow 7
Overlay
Entries 911
Mean 0.06761
RMS 13.06
Underflow 4
Overflow 6
x residual(μm)
100
80
60
40
20
0
−50
−40
−30
−20
−10
0
10
20
30
40
50

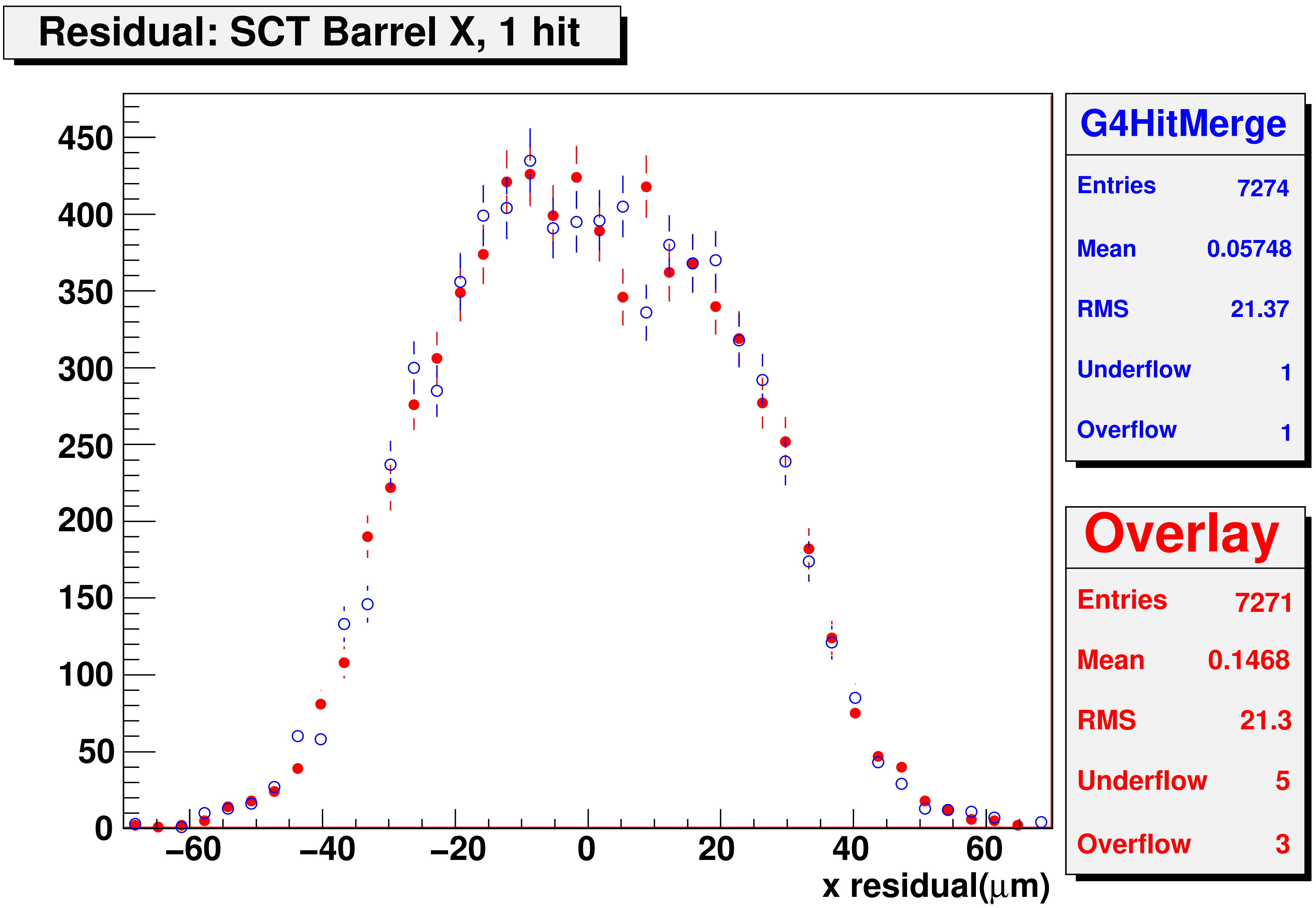


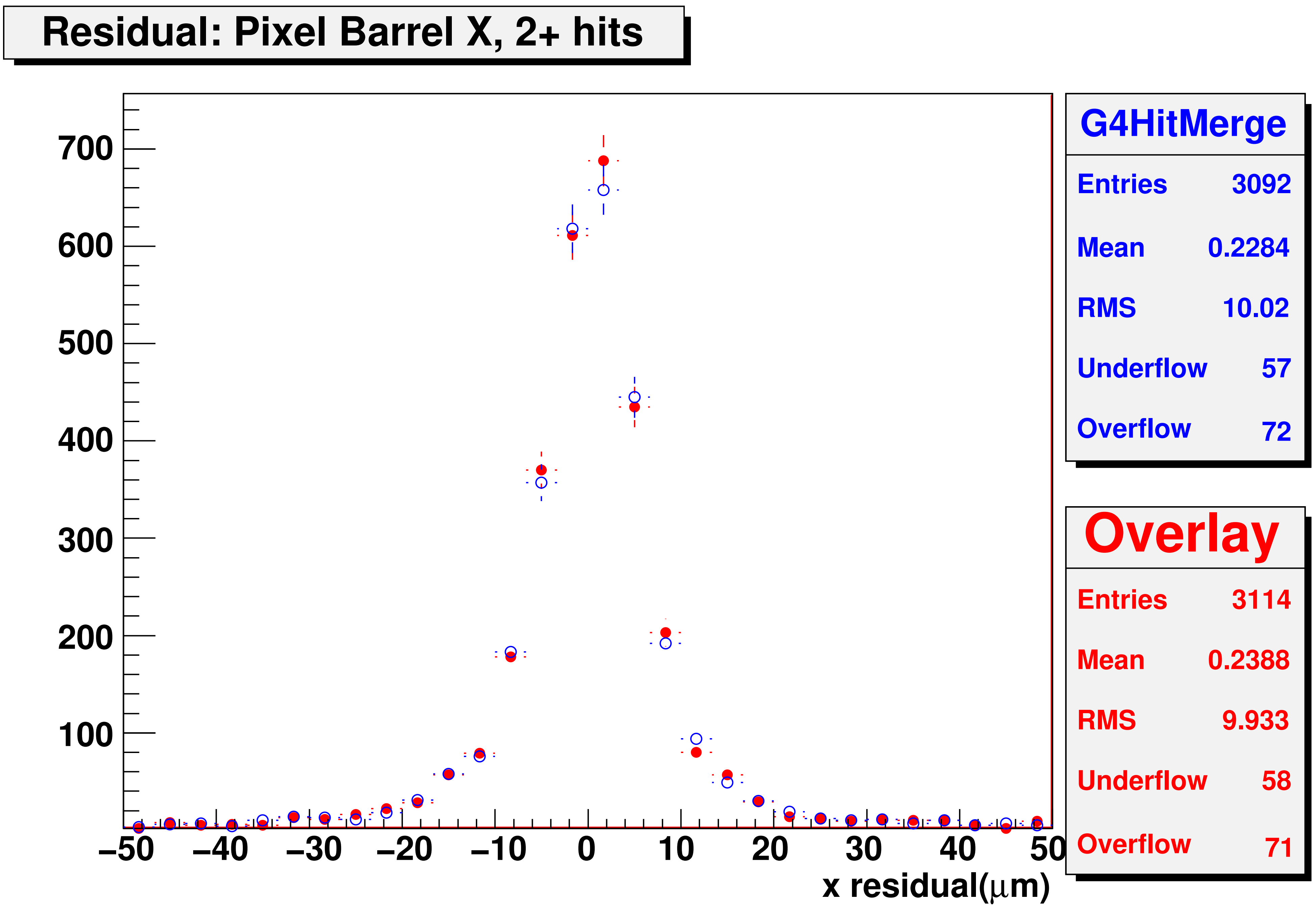
Residual: Pixel Endcap Y
G4HitMerge
Entries 909
Mean 1.721
RMS 117.6
Underflow 1
Overflow 2
Overlay
Entries 911
Mean 3.218
RMS 118.1
Underflow 1
Overflow 2
70
60
50
40
30
20
10
–300
–200
–100
0
100
200
300
y residual(μm)

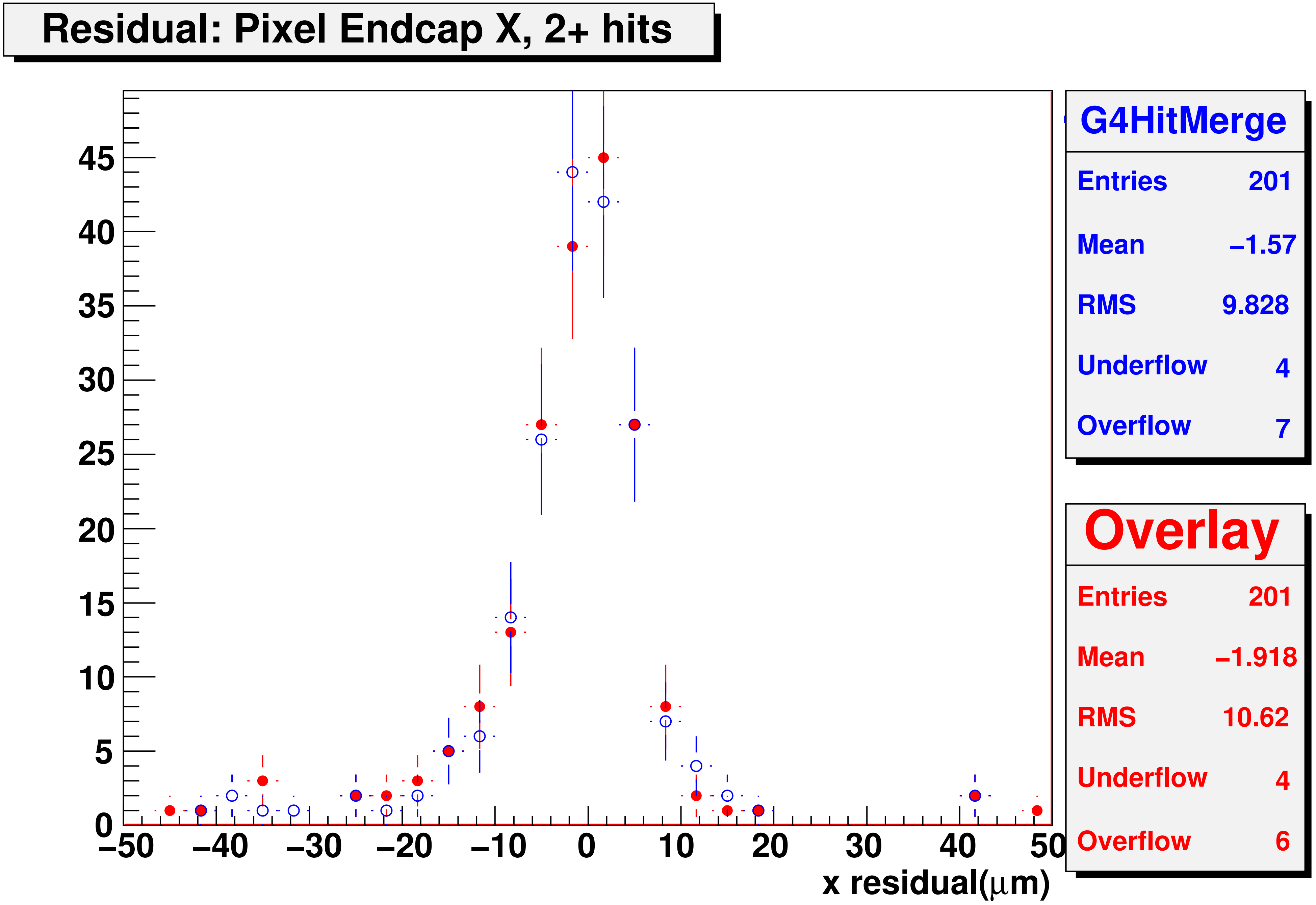


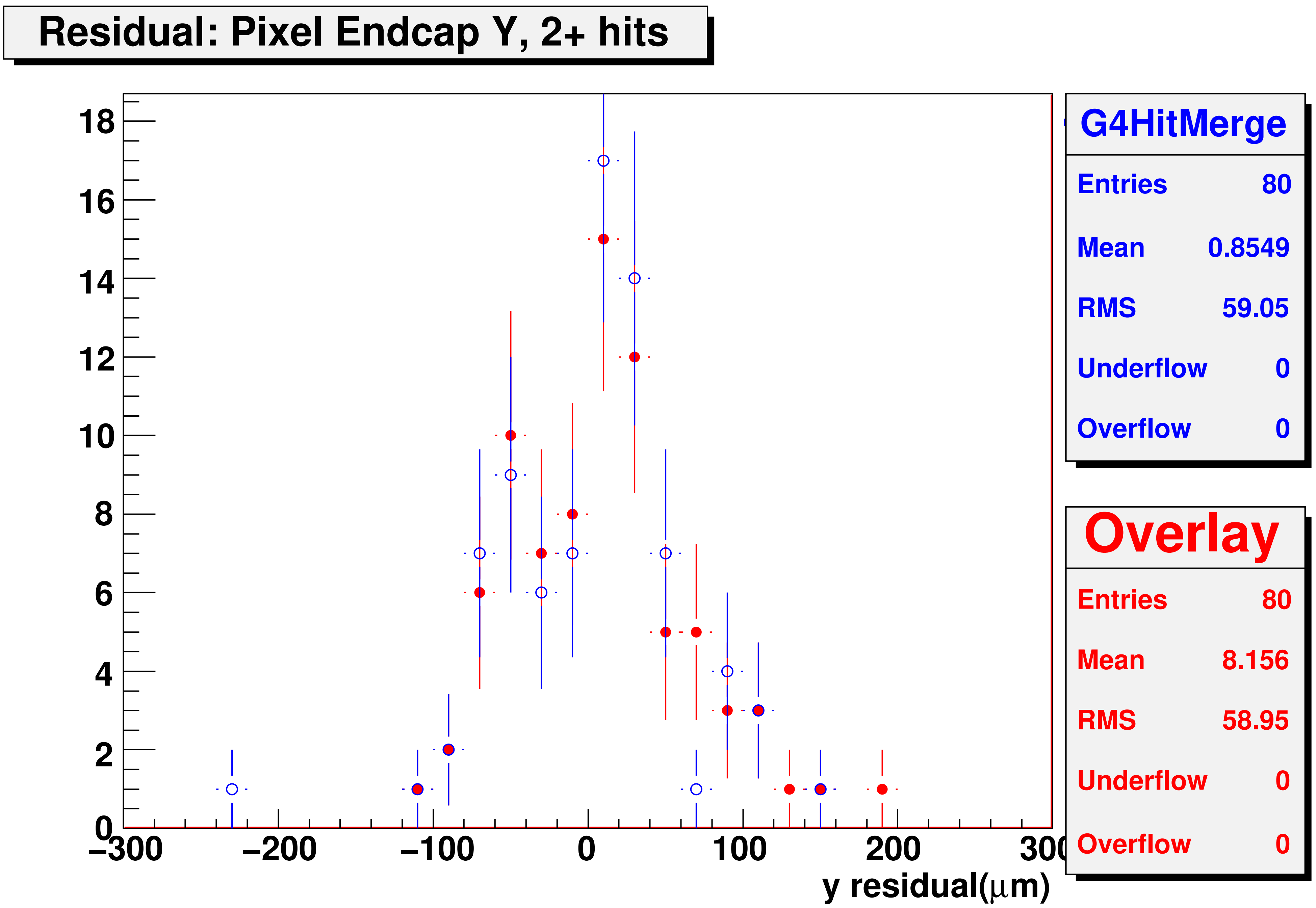
Residual: SCT Barrel X
G4HitMerge
Entries 9695
Mean 0.04766
RMS 20.55
Underflow 63
Overflow 40
Overlay
Entries 9694
Mean 0.07159
RMS 20.5
Underflow 62
Overflow 42
700
600
500
400
300
200
100
−60
−40
−20
0
20
40
60
x residual(μm)

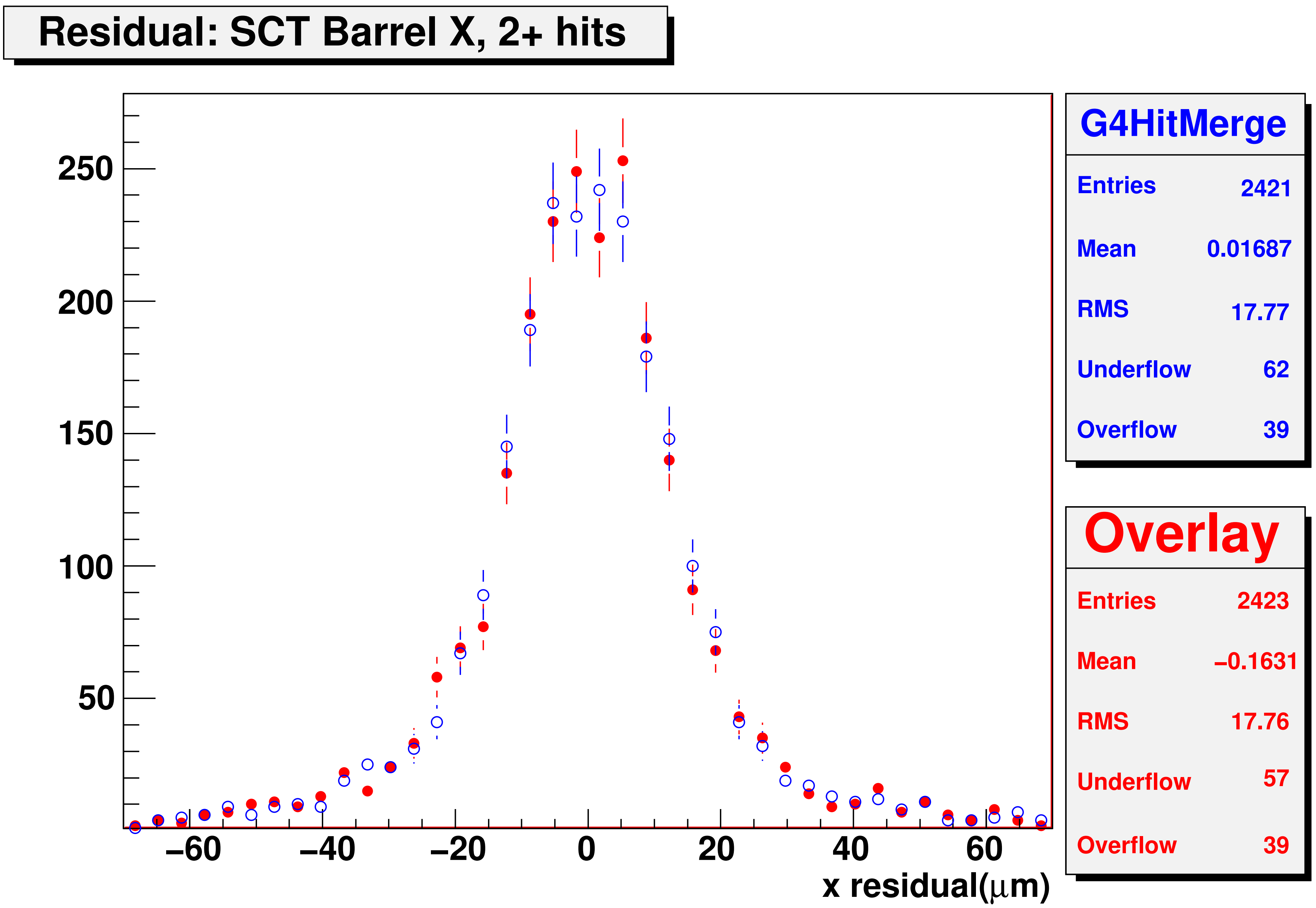

Residual: SCT Endcap X
350
300
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 6251
Mean 0.02705
RMS 25.04
Underflow 37
Overflow 25
Overlay
Entries 6252
Mean −0.1229
RMS 24.97
Underflow 33
Overflow 30


Residual: SCT Barrel X, 1 hit
G4HitMerge
Entries 7274
Mean 0.05748
RMS 21.37
Underflow 1
Overflow 1
Overlay
Entries 7271
Mean 0.1468
RMS 21.3
Underflow 5
Overflow 3
x residual(μm)
0
50
100
150
200
250
300
350
400
450
−60
−40
−20
0
20
40
60

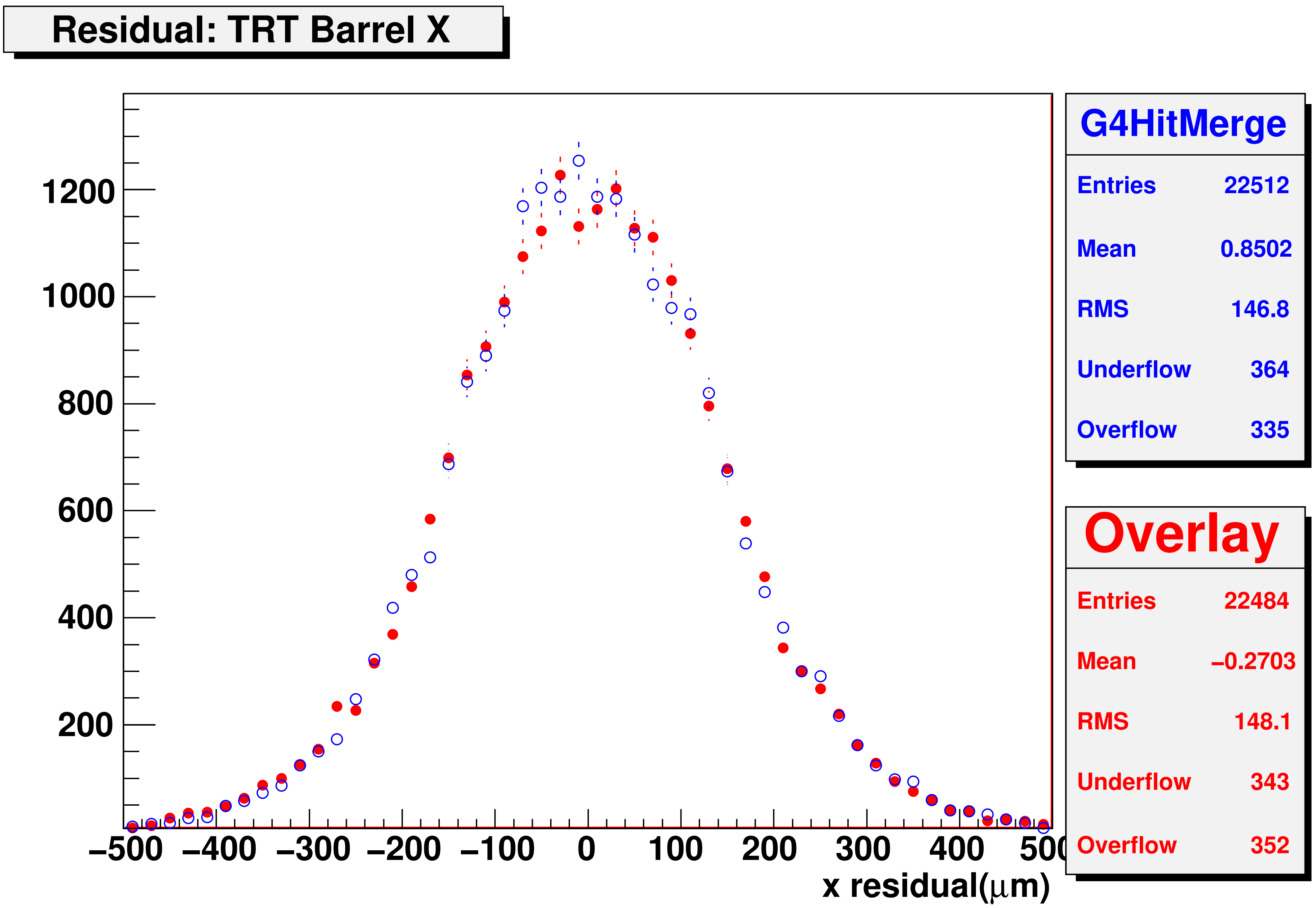

Residual: Pixel Barrel X, 2+ hits
700
600
500
400
300
200
100
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 3092
Mean 0.2284
RMS 10.02
Underflow 57
Overflow 72
Overlay
Entries 3114
Mean 0.2388
RMS 9.933
Underflow 58
Overflow 71


Residual: Pixel Endcap X, 2+ hits
G4HitMerge
Entries 201
Mean −1.57
RMS 9.828
Underflow 4
Overflow 7
Overlay
Entries 201
Mean −1.918
RMS 10.62
Underflow 4
Overflow 6
0
5
10
15
20
25
30
35
40
45
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)

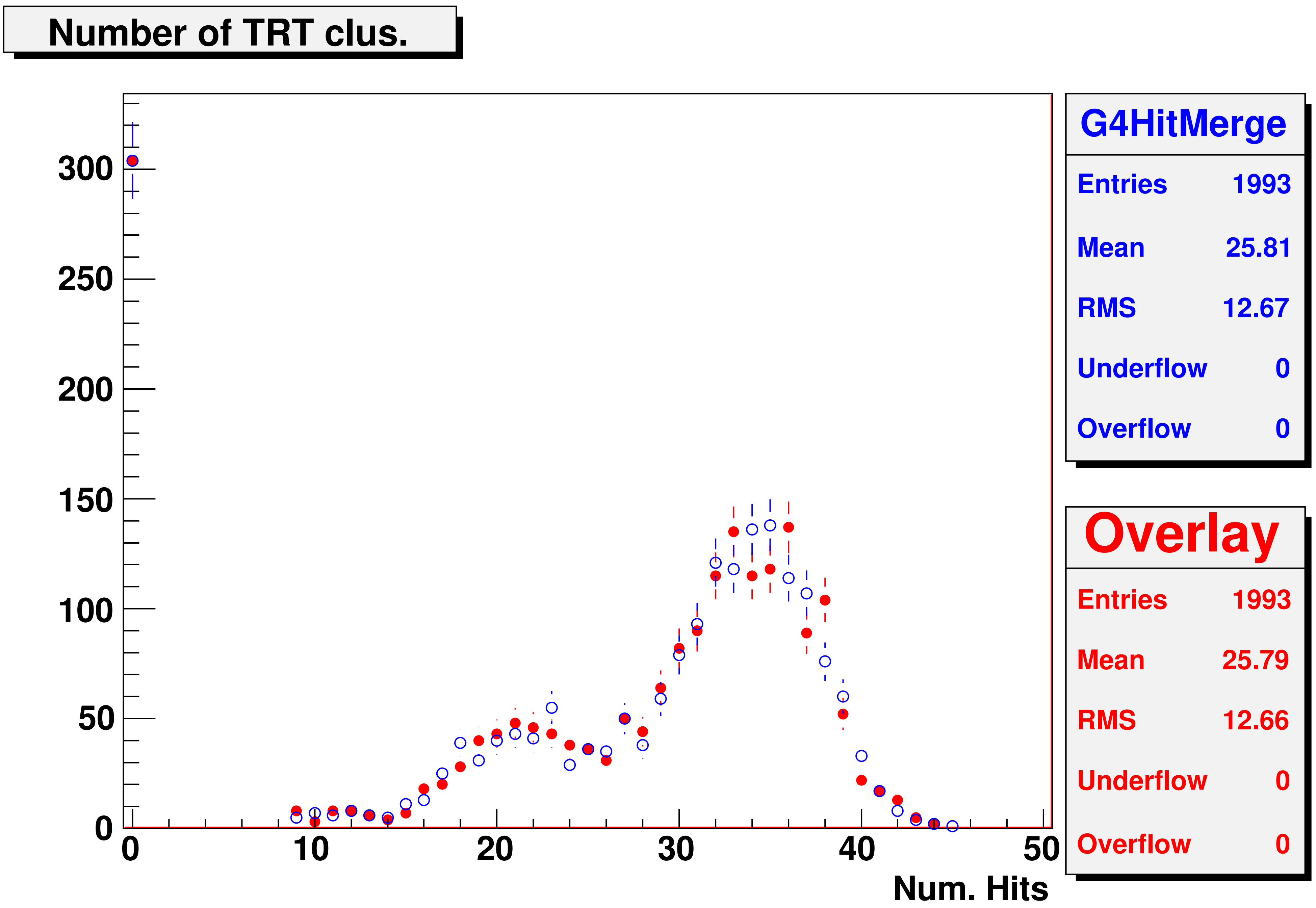

Residual: Pixel Endcap Y, 2+ hits
G4HitMerge
Entries 80
Mean 0.8549
RMS 59.05
Underflow 0
Overflow 0
Overlay
Entries 80
Mean 8.156
RMS 58.95
Underflow 0
Overflow 0
y residual(μm)

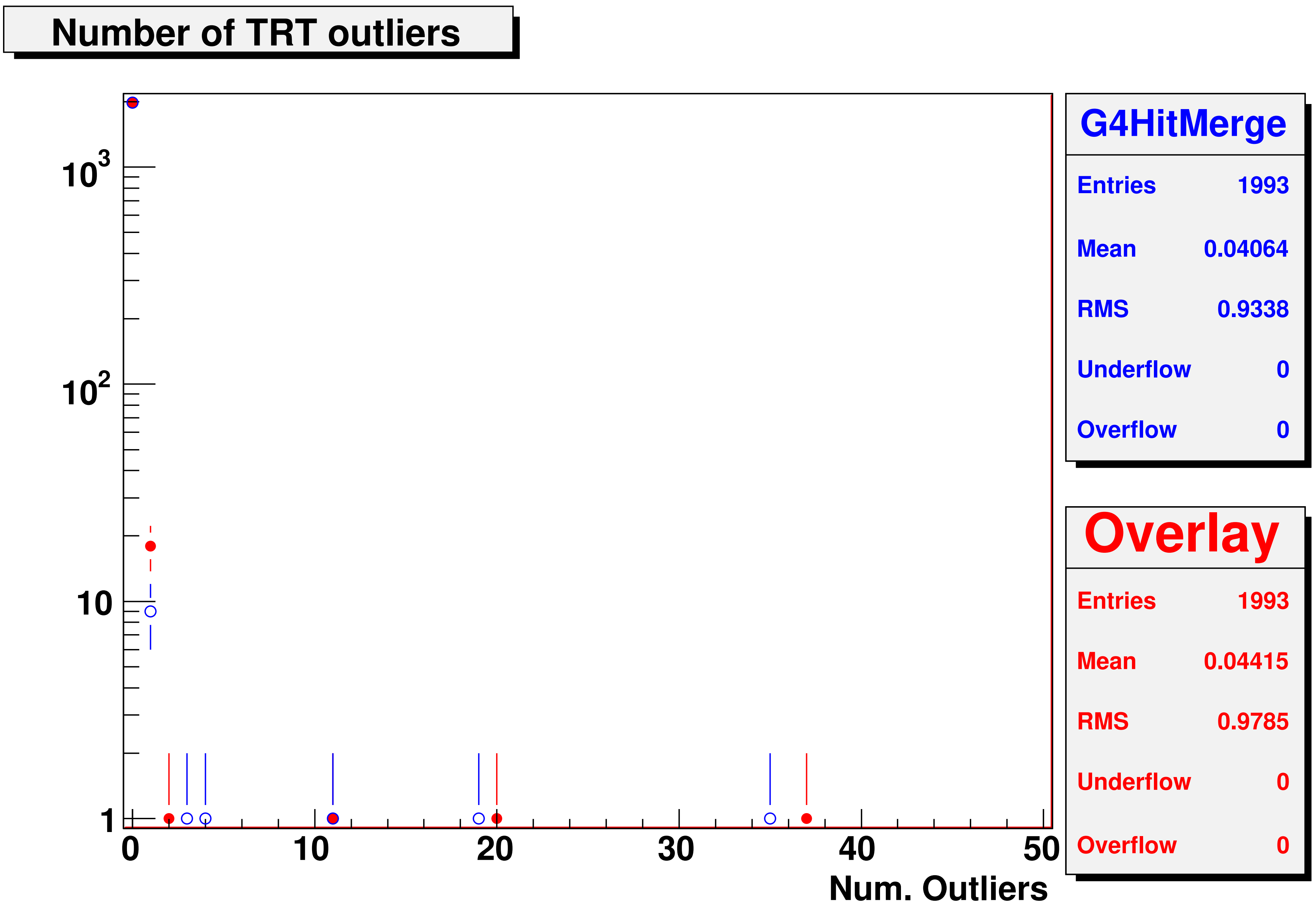


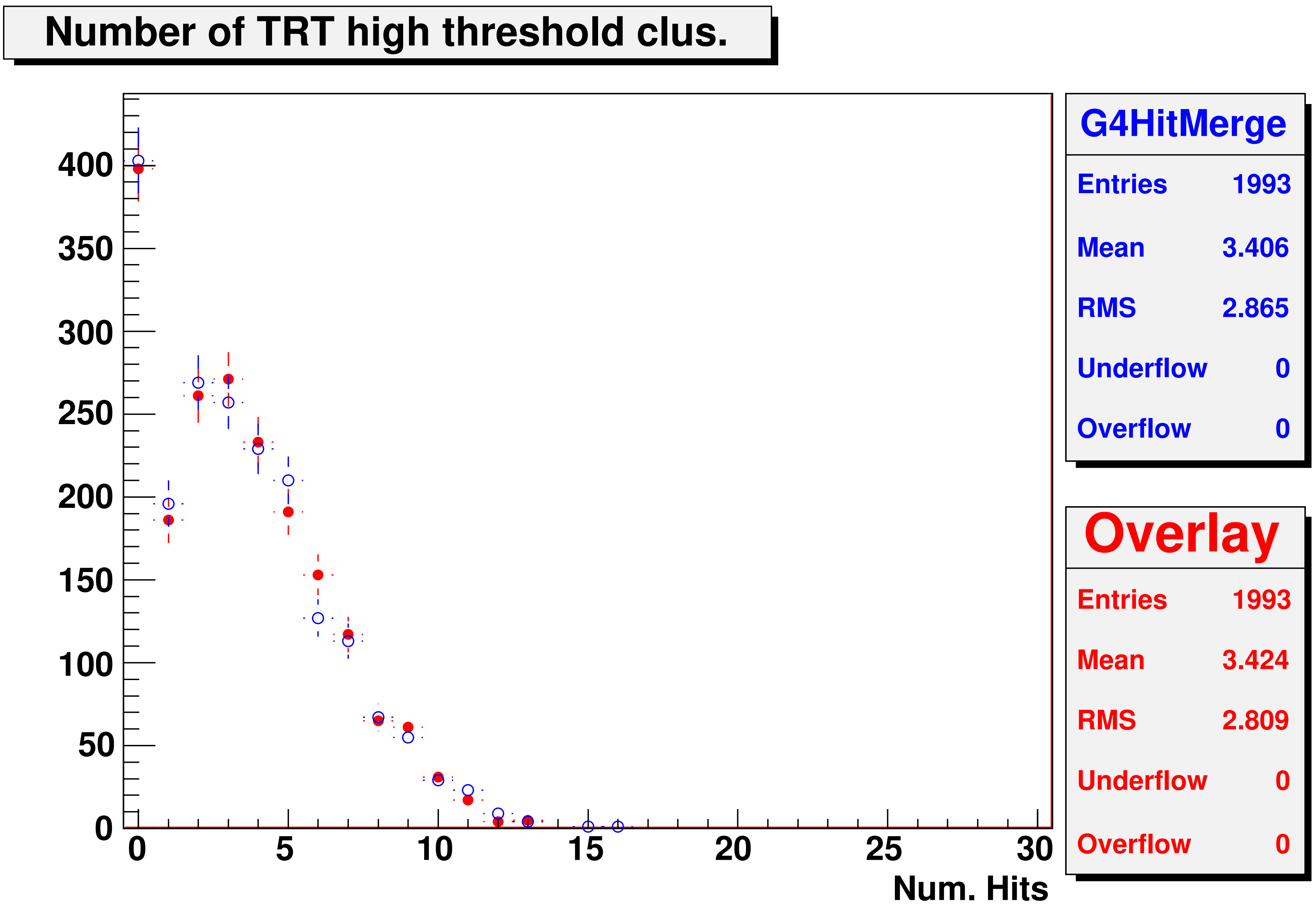
Residual: SCT Barrel X, 2+ hits
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 2421
Mean 0.01687
RMS 17.77
Underflow 62
Overflow 39
Overlay
Entries 2423
Mean −0.1631
RMS 17.76
Underflow 57
Overflow 39



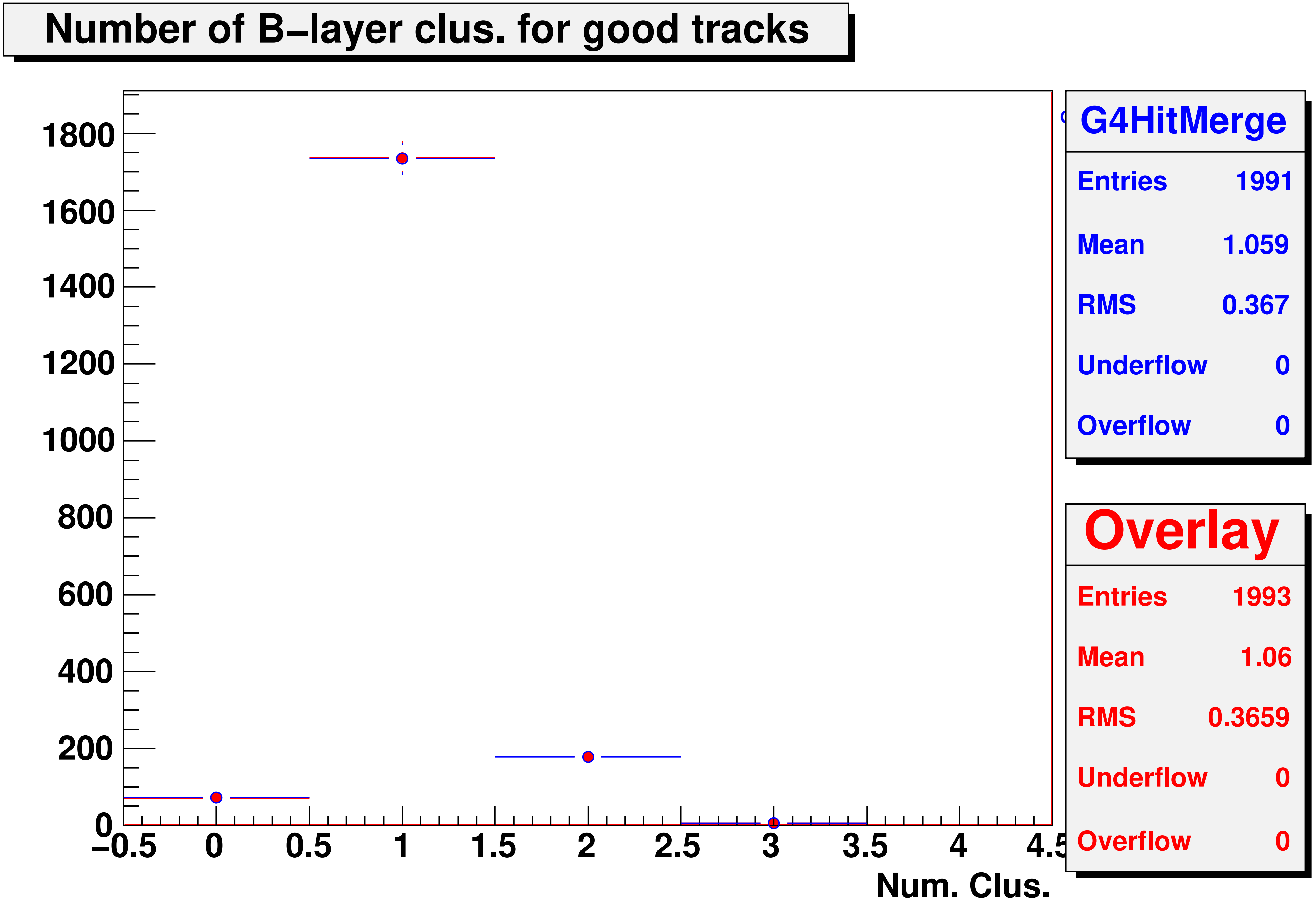
Residual: TRT Barrel X
1200
1000
800
600
400
200
–500
–400
–300
–200
–100
0
100
200
300
400
500
x residual(μm)
G4HitMerge
Entries 22512
Mean 0.8502
RMS 146.8
Underflow 364
Overflow 335
Overlay
Entries 22484
Mean –0.2703
RMS 148.1
Underflow 343
Overflow 352

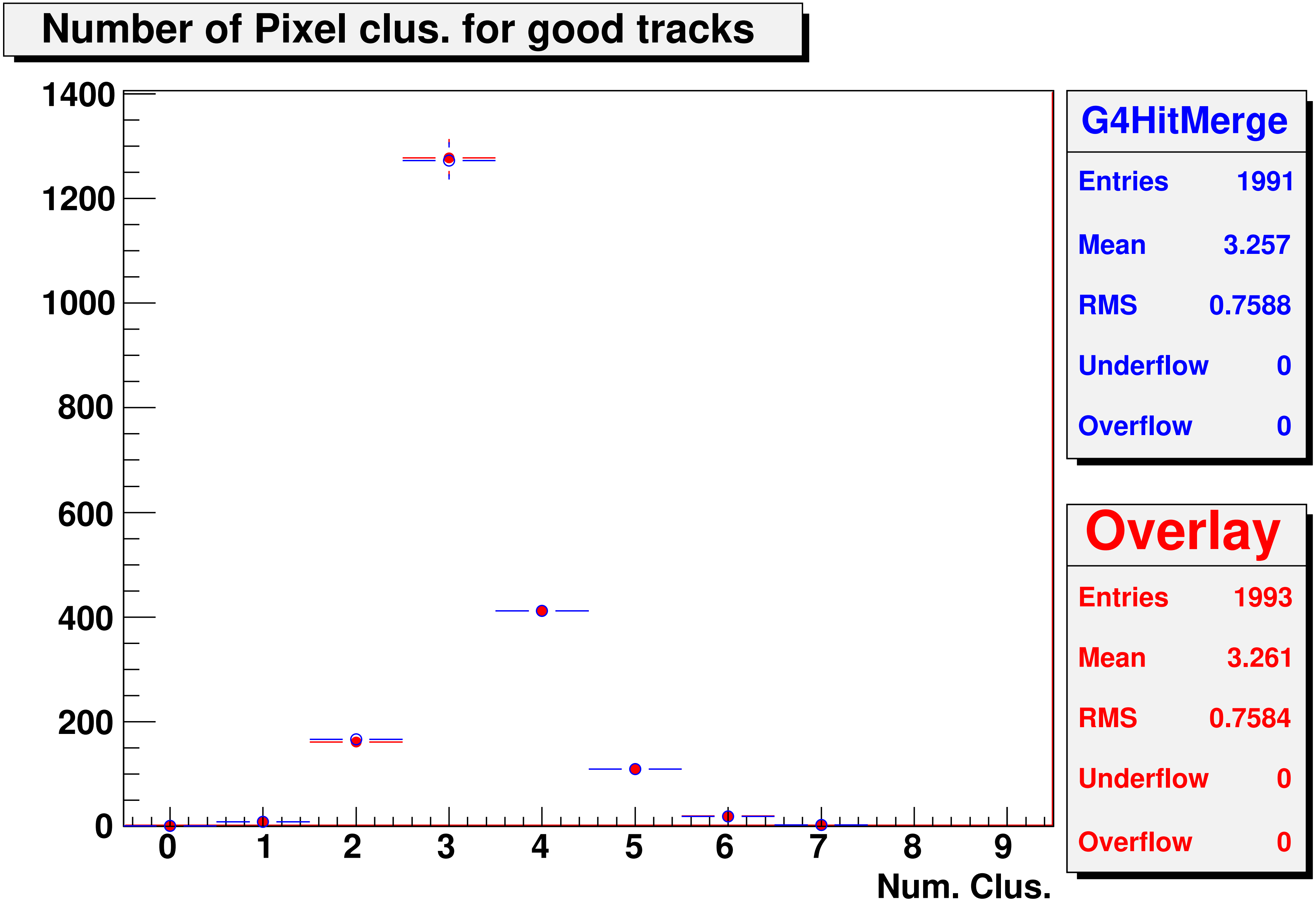

Number of TRT clus.
G4HitMerge
Entries 1993
Mean 25.81
RMS 12.67
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 25.79
RMS 12.66
Underflow 0
Overflow 0
300
250
200
150
100
50
0
0
10
20
30
40
50
Num. Hits

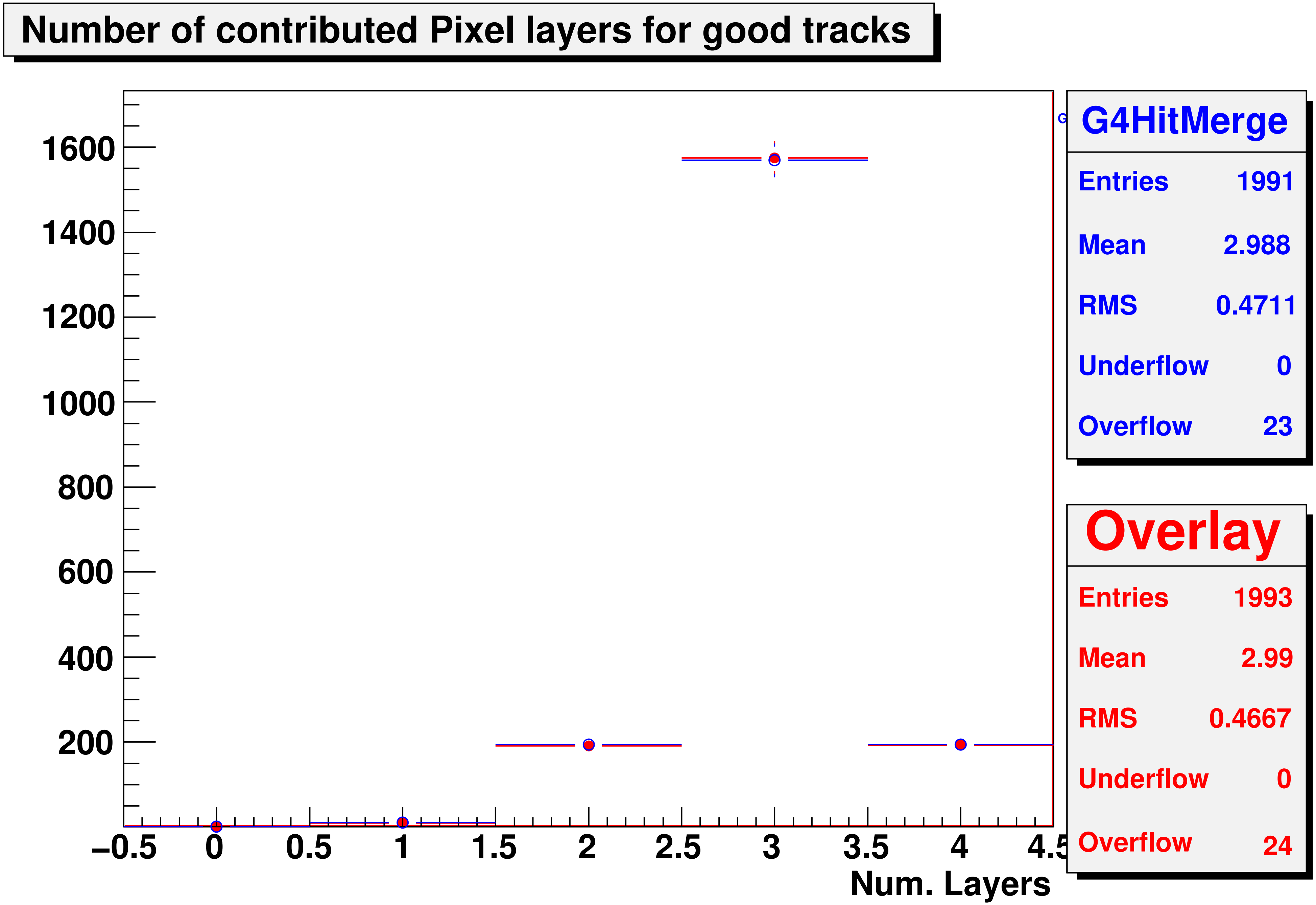

Number of TRT outliers
10^3
10^2
10
1
0
10
20
30
40
50
Num. Outliers
G4HitMerge
Entries 1993
Mean 0.04064
RMS 0.9338
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 0.04415
RMS 0.9785
Underflow 0
Overflow 0

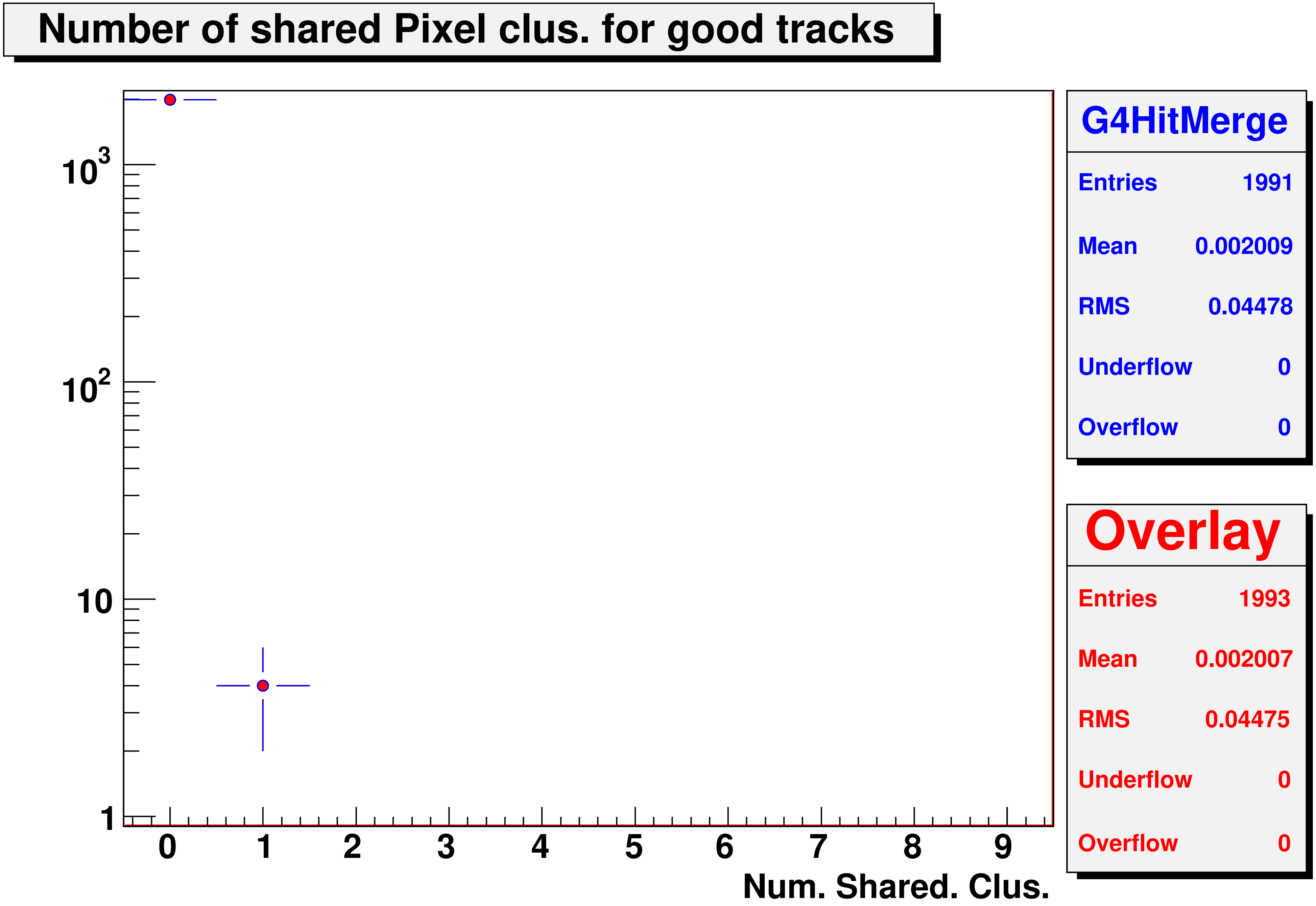


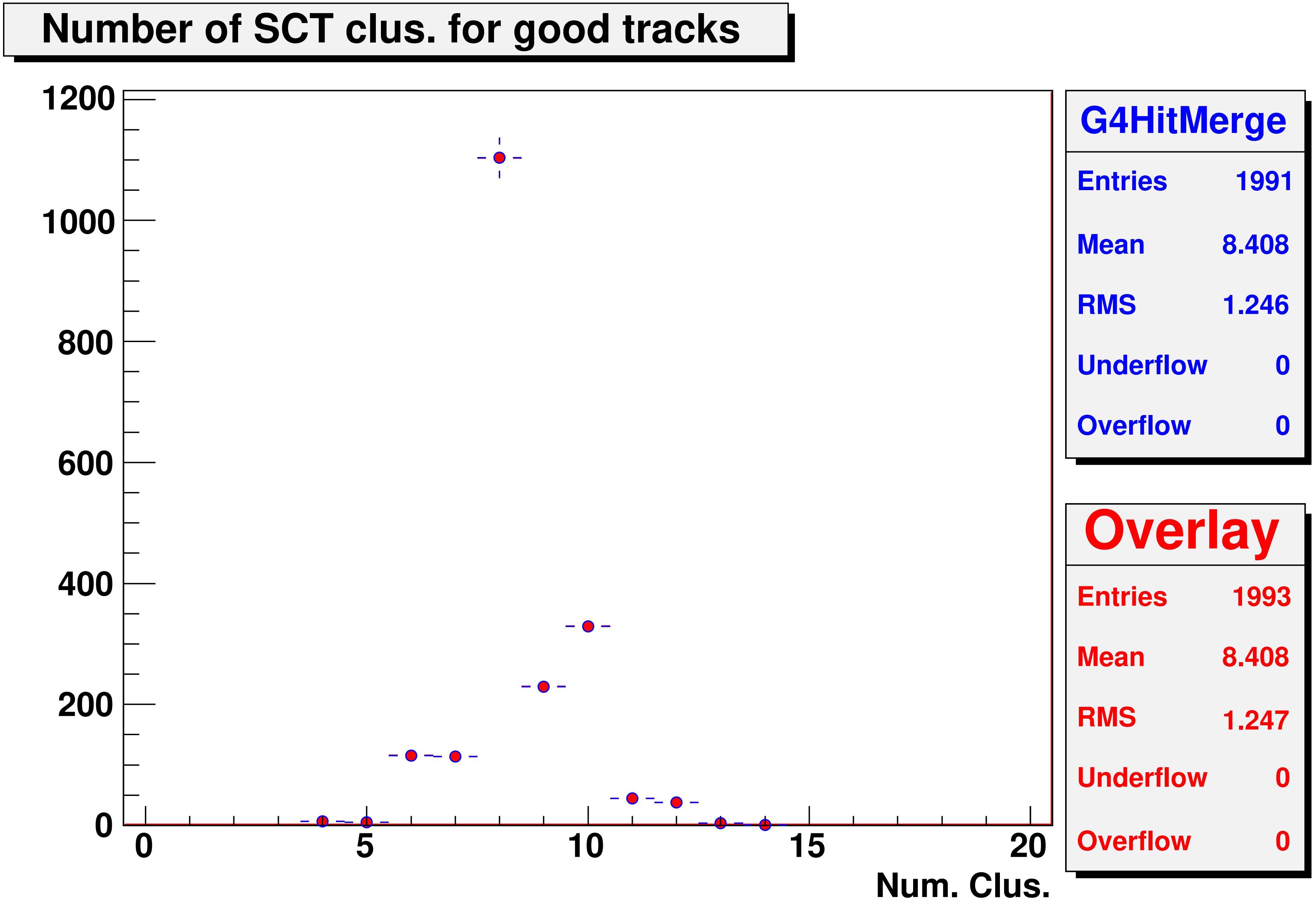
Number of TRT high threshold clus.
G4HitMerge
Entries 1993
Mean 3.406
RMS 2.865
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 3.424
RMS 2.809
Underflow 0
Overflow 0
0
50
100
150
200
250
300
350
400
0
5
10
15
20
25
30
Num. Hits


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 1991
Mean 1.059
RMS 0.367
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 1.06
RMS 0.3659
Underflow 0
Overflow 0

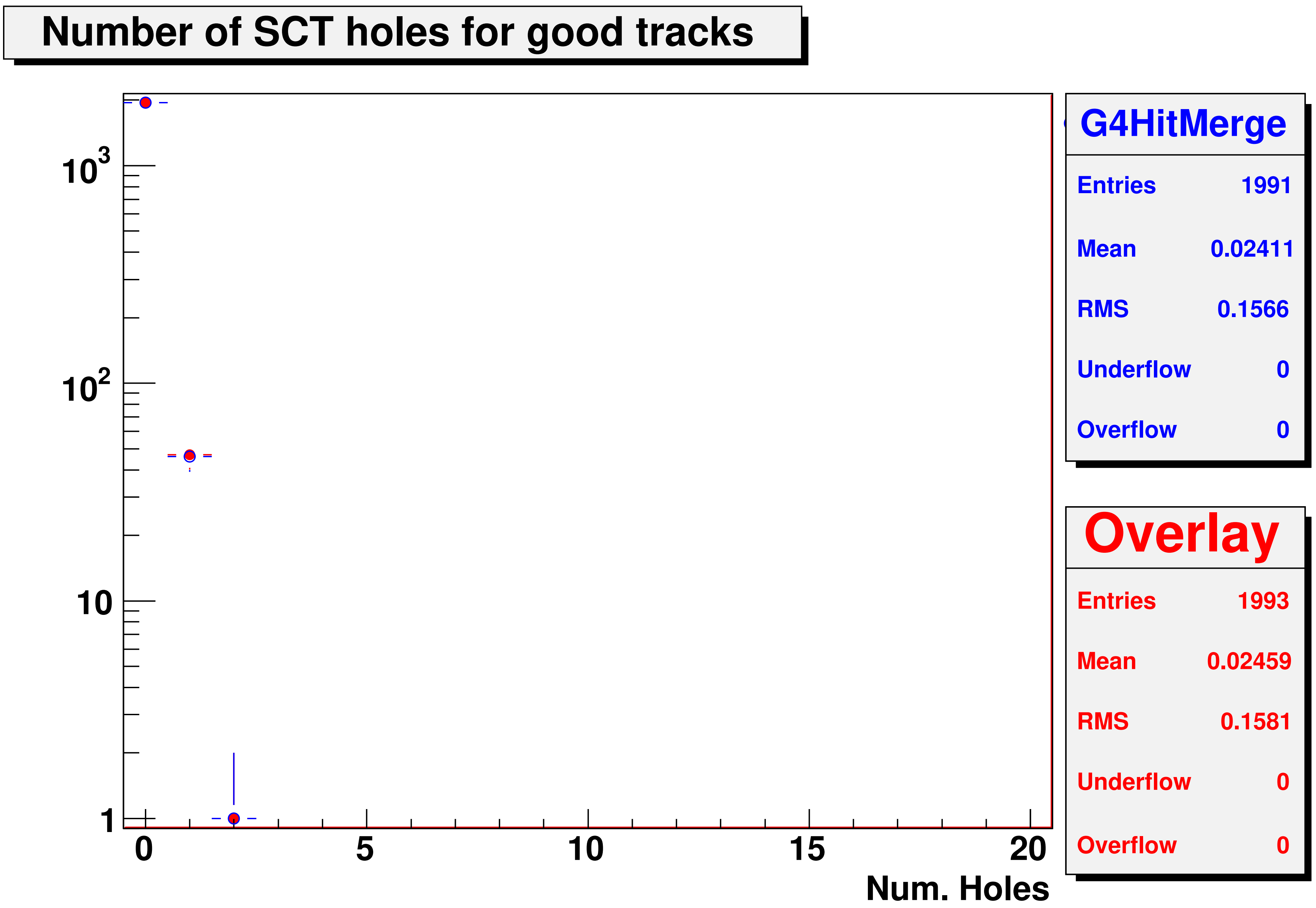

Number of Pixel clus. for good tracks
1400
1200
1000
800
600
400
200
0
0
1
2
3
4
5
6
7
8
9
Num. Clus.
G4HitMerge
Entries 1991
Mean 3.257
RMS 0.7588
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 3.261
RMS 0.7584
Underflow 0
Overflow 0

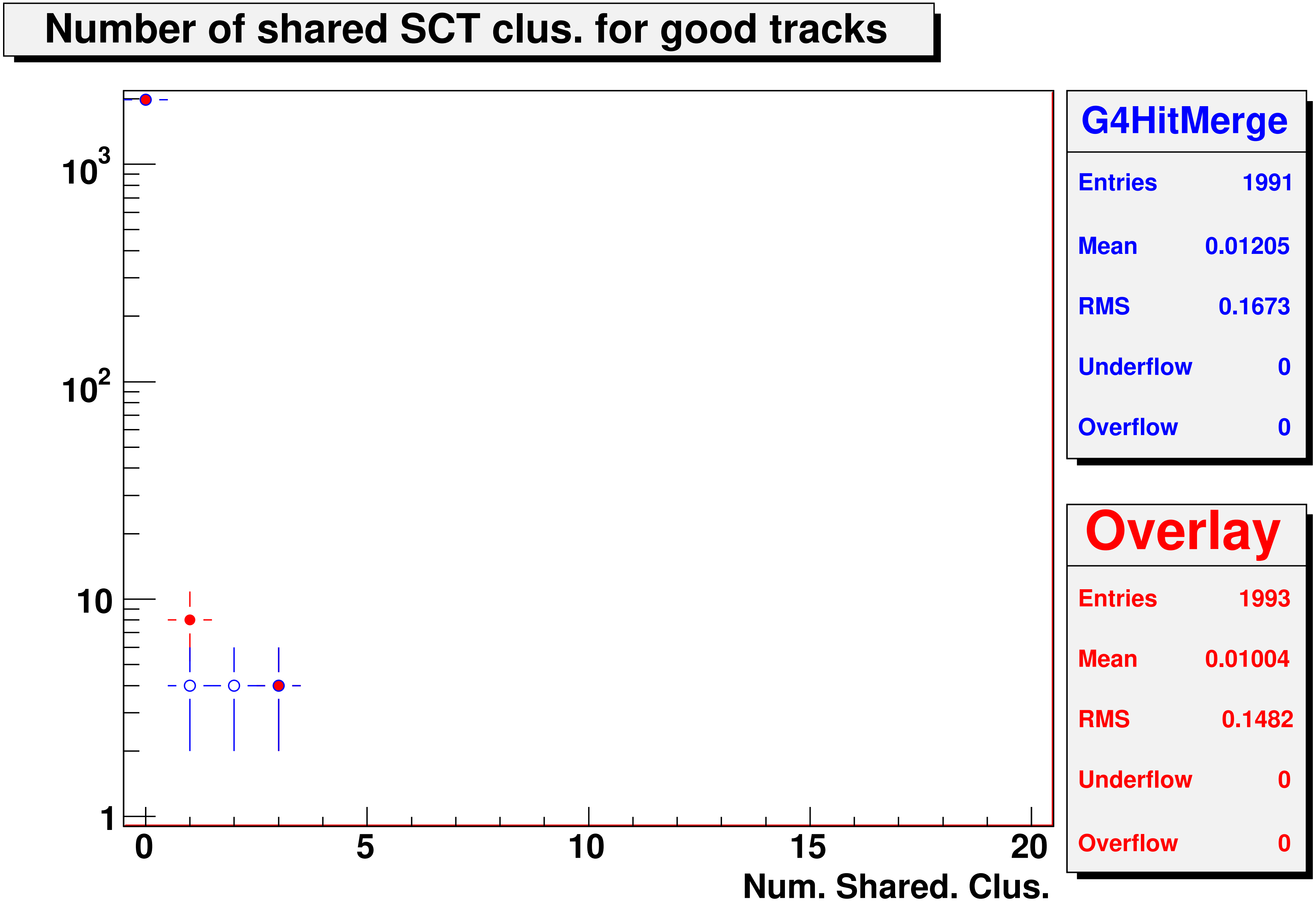

Number of contributed Pixel layers for good tracks
1600
1400
1200
1000
800
600
400
200
−0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Layers
G4HitMerge
Entries 1991
Mean 2.988
RMS 0.4711
Underflow 0
Overflow 23
Overlay
Entries 1993
Mean 2.99
RMS 0.4667
Underflow 0
Overflow 24

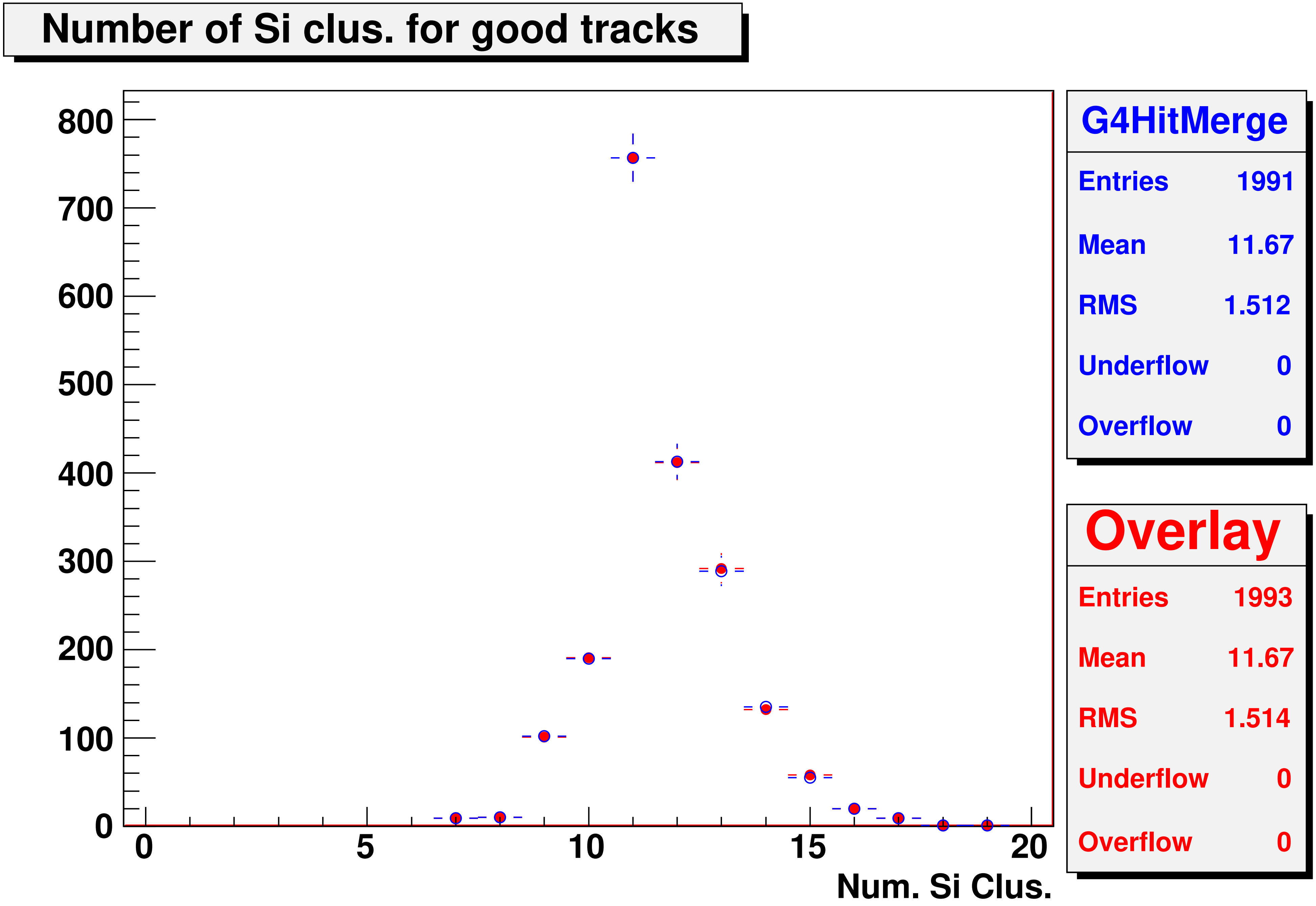

Number of shared Pixel clus. for good tracks
10^3
10^2
10
1
0 1 2 3 4 5 6 7 8 9
Num. Shared. Clus.
G4HitMerge
Entries 1991
Mean 0.002009
RMS 0.04478
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 0.002007
RMS 0.04475
Underflow 0
Overflow 0



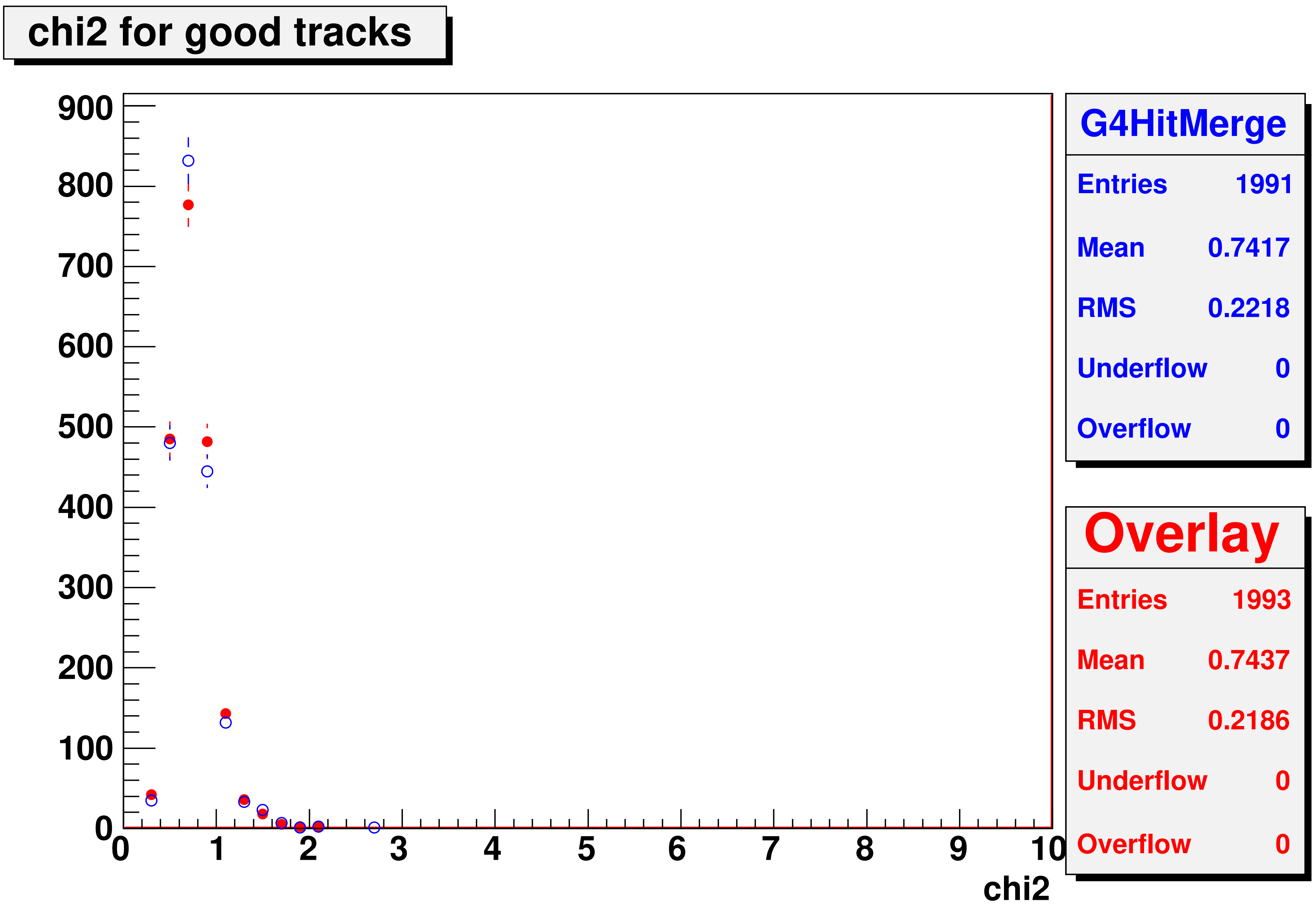
Number of SCT clus. for good tracks
1200
1000
800
600
400
200
0
0
5
10
15
20
Num. Clus.
G4HitMerge
Entries 1991
Mean 8.408
RMS 1.246
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 8.408
RMS 1.247
Underflow 0
Overflow 0


Number of SCT holes for good tracks
10^3
10^2
10
1
0
5
10
15
20
Num. Holes
G4HitMerge
Entries 1991
Mean 0.02411
RMS 0.1566
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 0.02459
RMS 0.1581
Underflow 0
Overflow 0

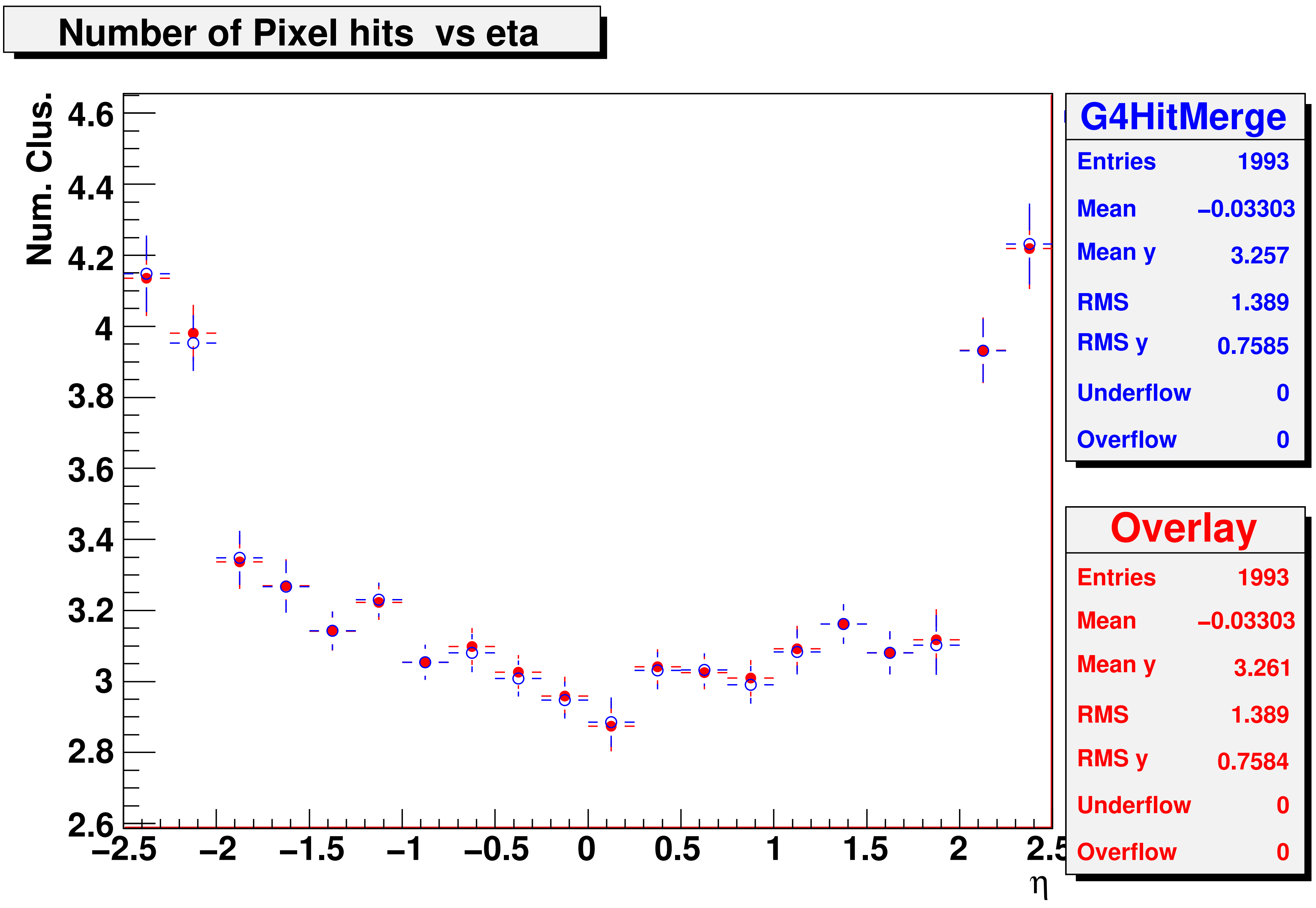

Number of shared SCT clus. for good tracks
G4HitMerge
Entries 1991
Mean 0.01205
RMS 0.1673
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 0.01004
RMS 0.1482
Underflow 0
Overflow 0
10^3
10^2
10
1
0
5
10
15
20
Num. Shared. Clus.



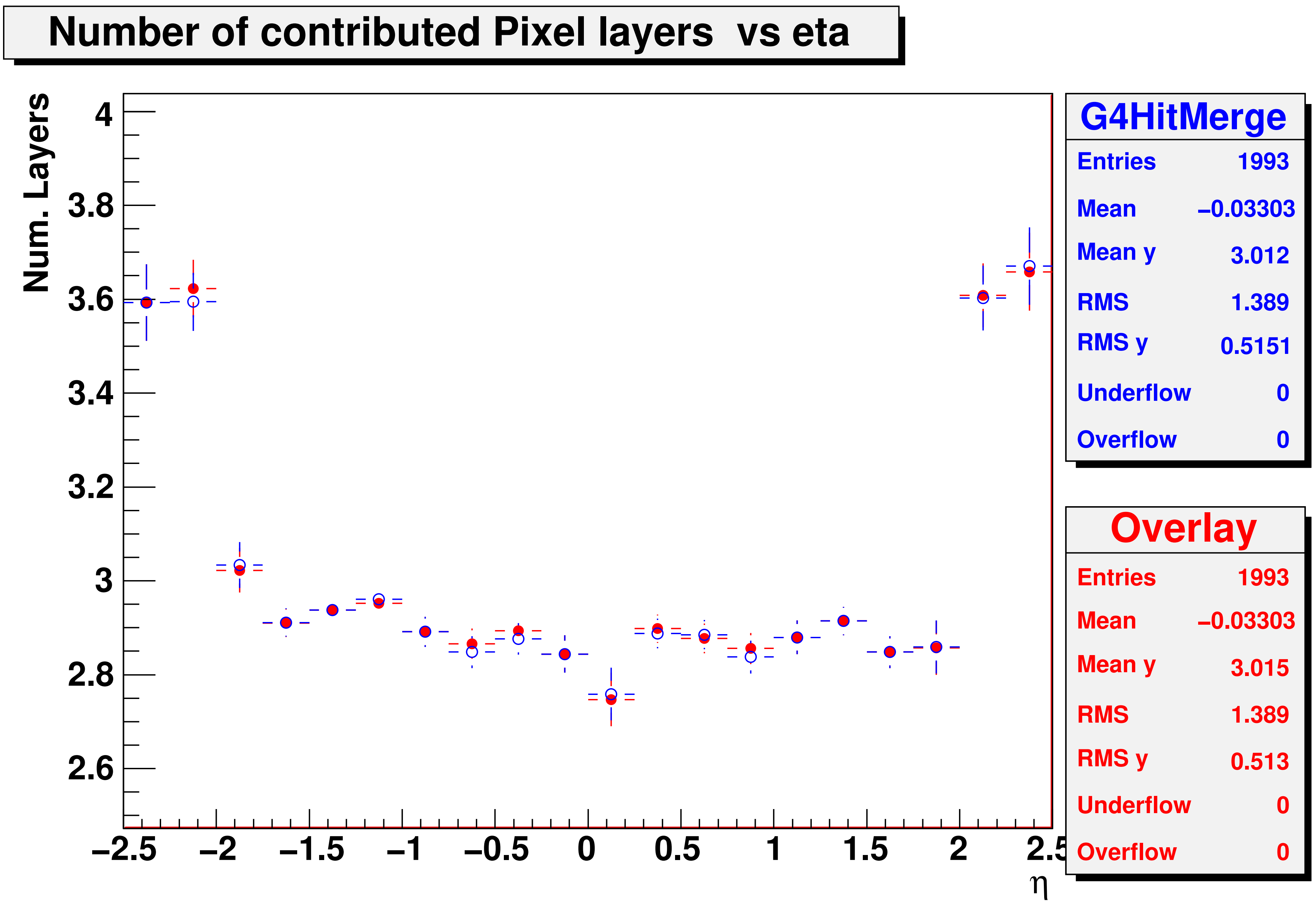
Number of Si clus. for good tracks
G4HitMerge
Entries 1991
Mean 11.67
RMS 1.512
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 11.67
RMS 1.514
Underflow 0
Overflow 0
0
100
200
300
400
500
600
700
800
0
5
10
15
20
Num. Si Clus.



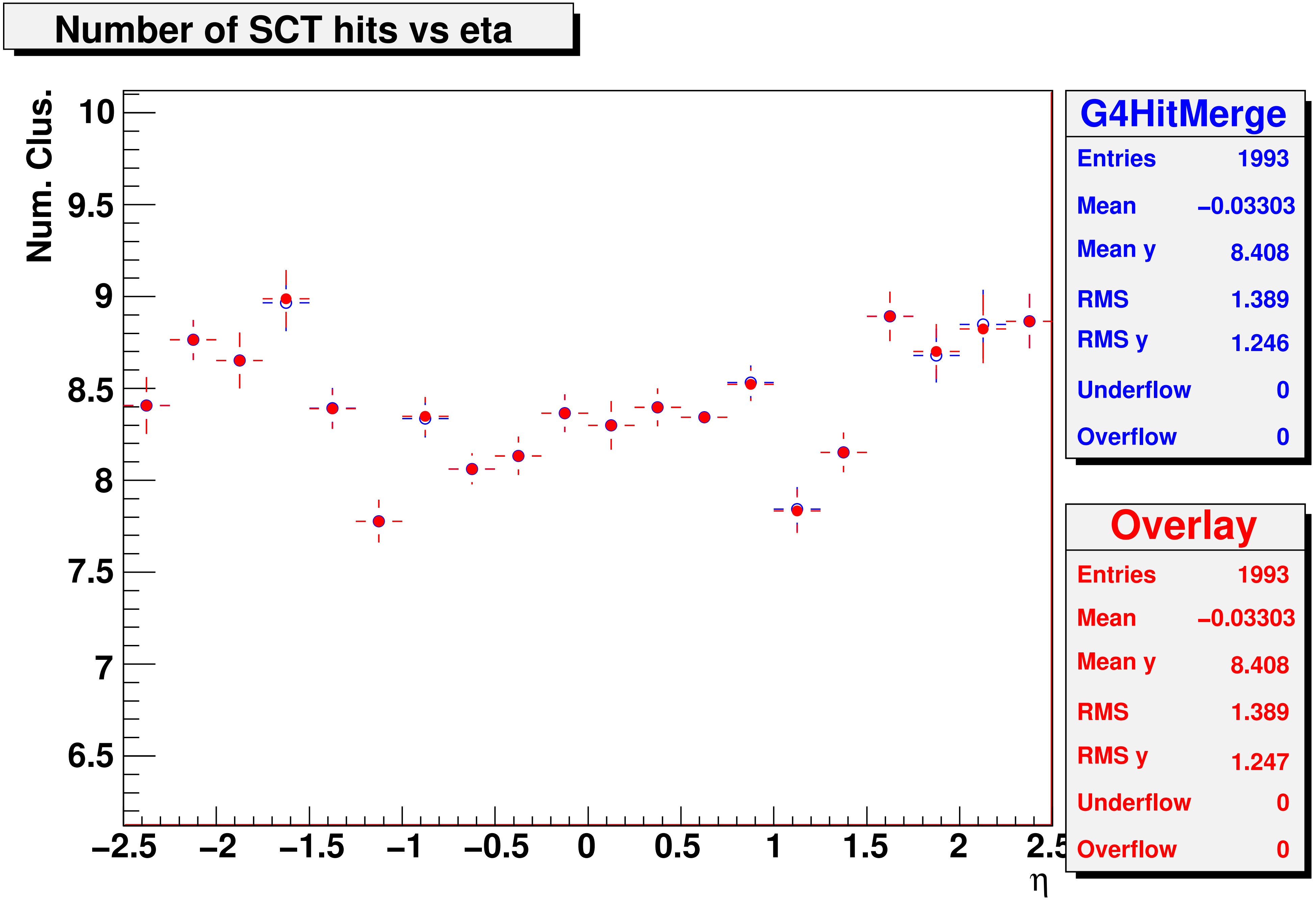
chi2 for good tracks
900
800
700
600
500
400
300
200
100
0
0
1
2
3
4
5
6
7
8
9
10
chi2
G4HitMerge
Entries 1991
Mean 0.7417
RMS 0.2218
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean 0.7437
RMS 0.2186
Underflow 0
Overflow 0

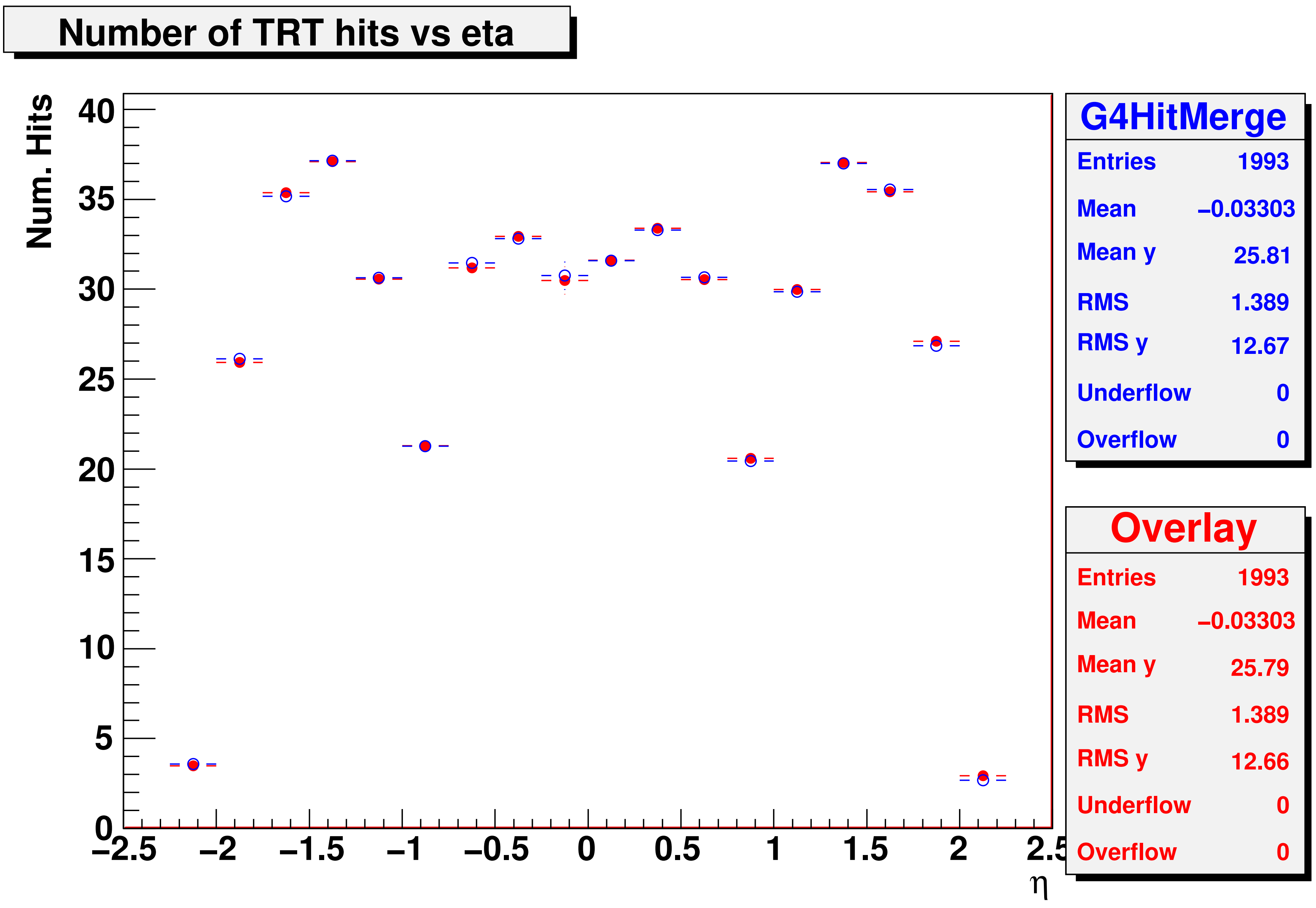


Number of Pixel hits vs eta
Num. Clus.
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1993
Mean −0.03303
Mean y 3.257
RMS 1.389
RMS y 0.7585
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean −0.03303
Mean y 3.261
RMS 1.389
RMS y 0.7584
Underflow 0
Overflow 0

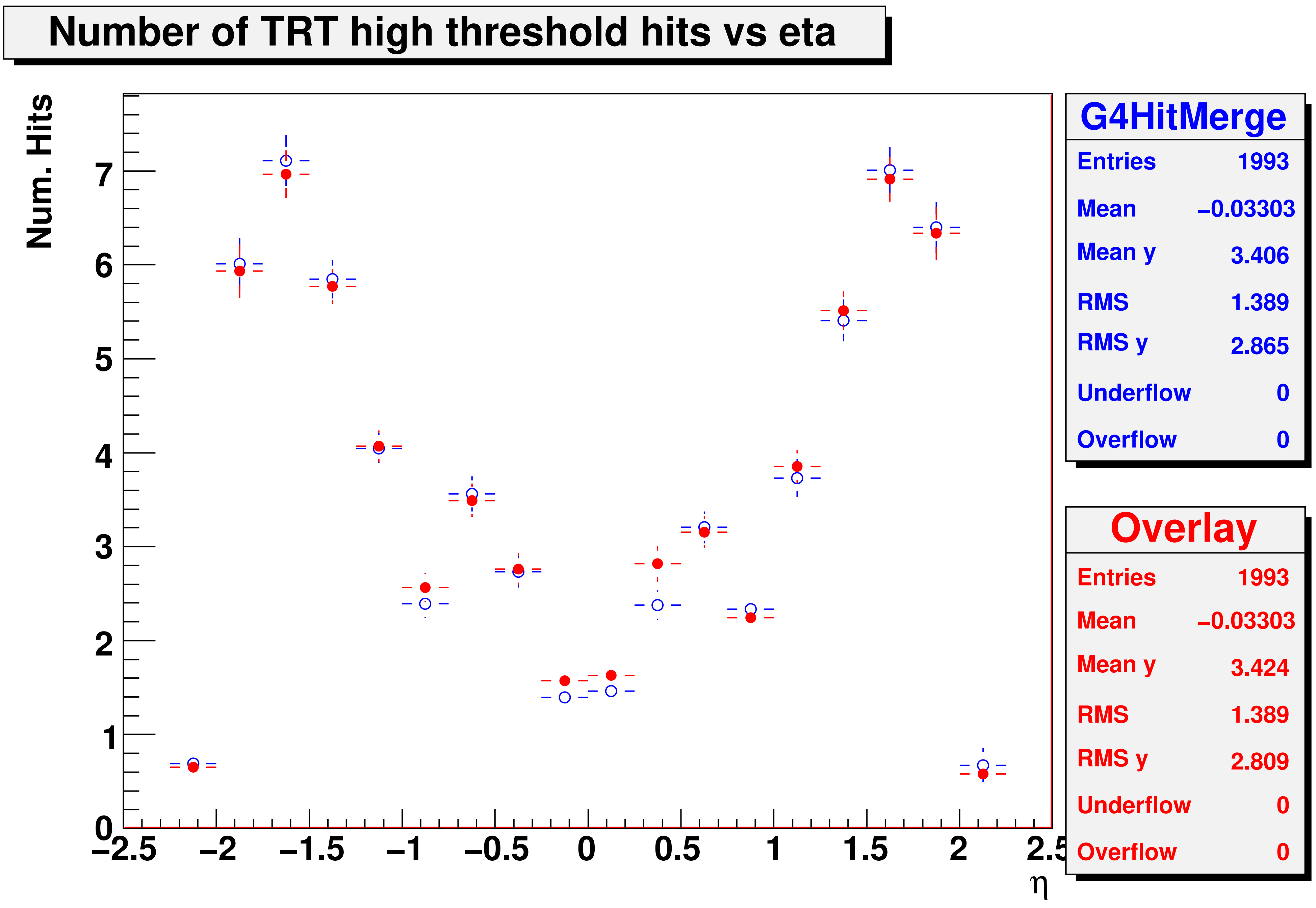


Number of contributed Pixel layers vs eta
Num. Layers
4
3.8
3.6
3.4
3.2
3
2.8
2.6
–2.5
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1993
Mean –0.03303
Mean y 3.012
RMS 1.389
RMS y 0.5151
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean –0.03303
Mean y 3.015
RMS 1.389
RMS y 0.513
Underflow 0
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 1993
Mean –0.03303
Mean y 8.408
RMS 1.389
RMS y 1.246
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean –0.03303
Mean y 8.408
RMS 1.389
RMS y 1.247
Underflow 0
Overflow 0



Number of TRT hits vs eta
Num. Hits
η
G4HitMerge
Entries 1993
Mean −0.03303
Mean y 25.81
RMS 1.389
RMS y 12.67
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean −0.03303
Mean y 25.79
RMS 1.389
RMS y 12.66
Underflow 0
Overflow 0


Number of TRT high threshold hits vs eta
Num. Hits
η
G4HitMerge
Entries 1993
Mean −0.03303
Mean y 3.406
RMS 1.389
RMS y 2.865
Underflow 0
Overflow 0
Overlay
Entries 1993
Mean −0.03303
Mean y 3.424
RMS 1.389
RMS y 2.809
Underflow 0
Overflow 0