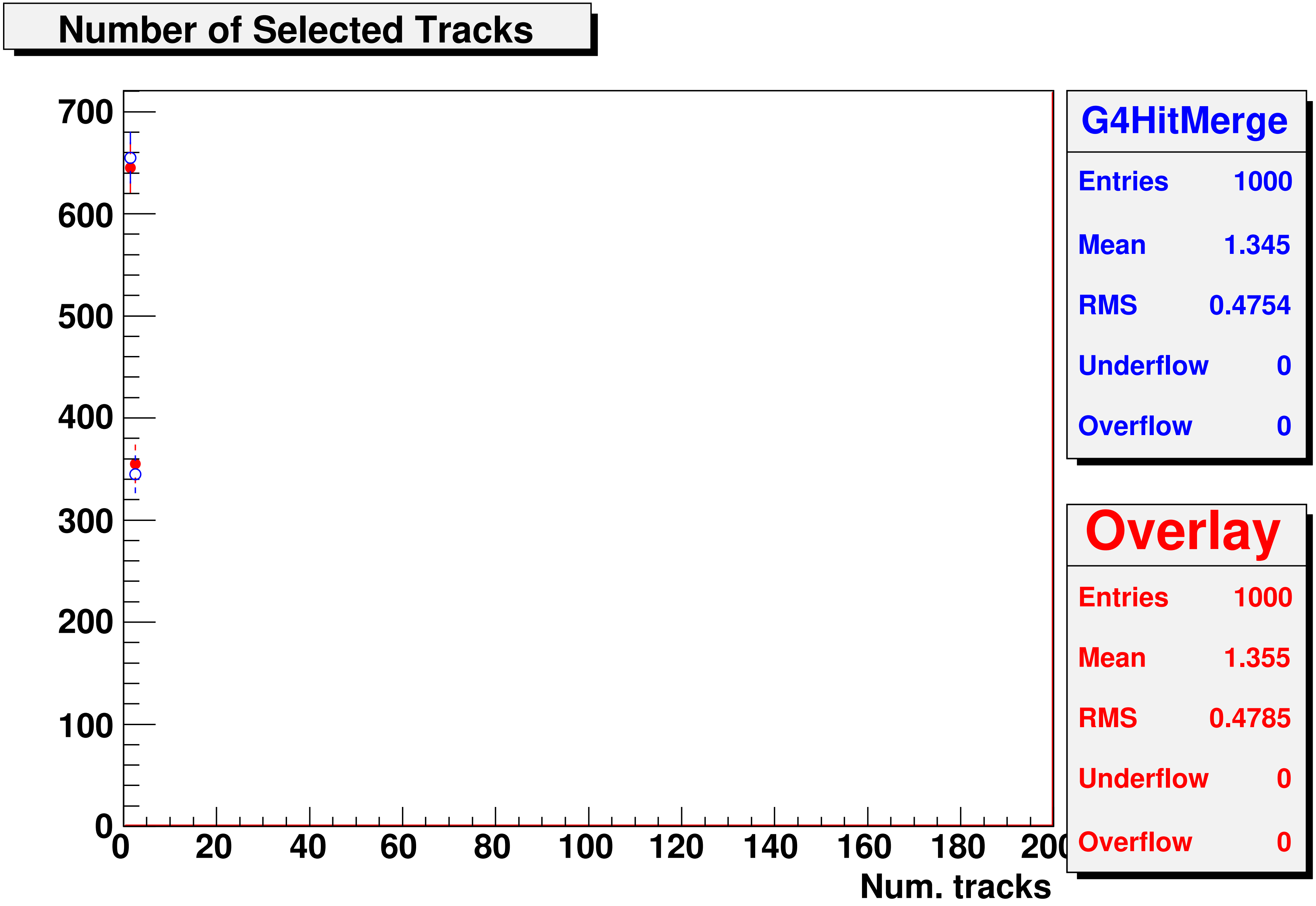
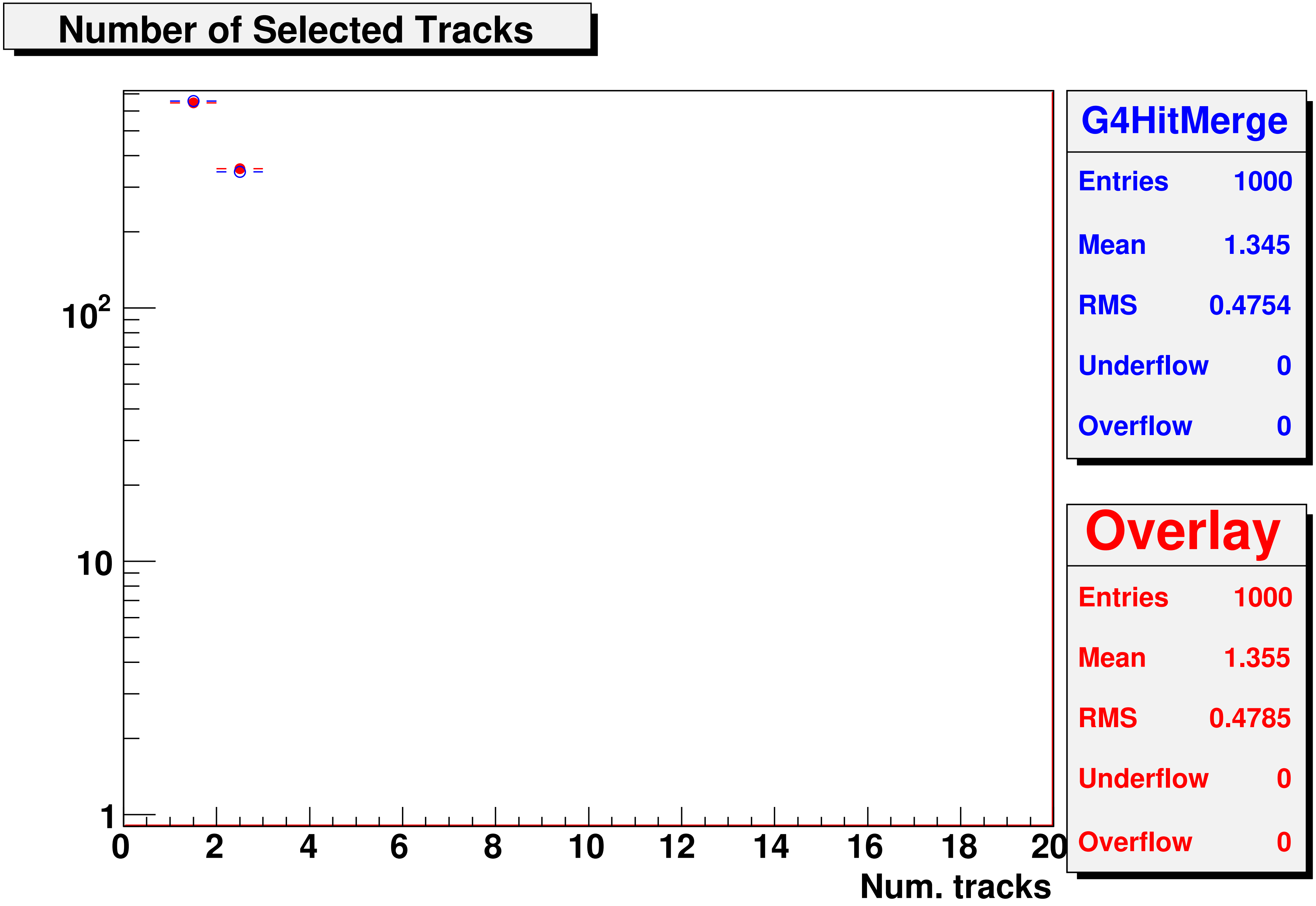
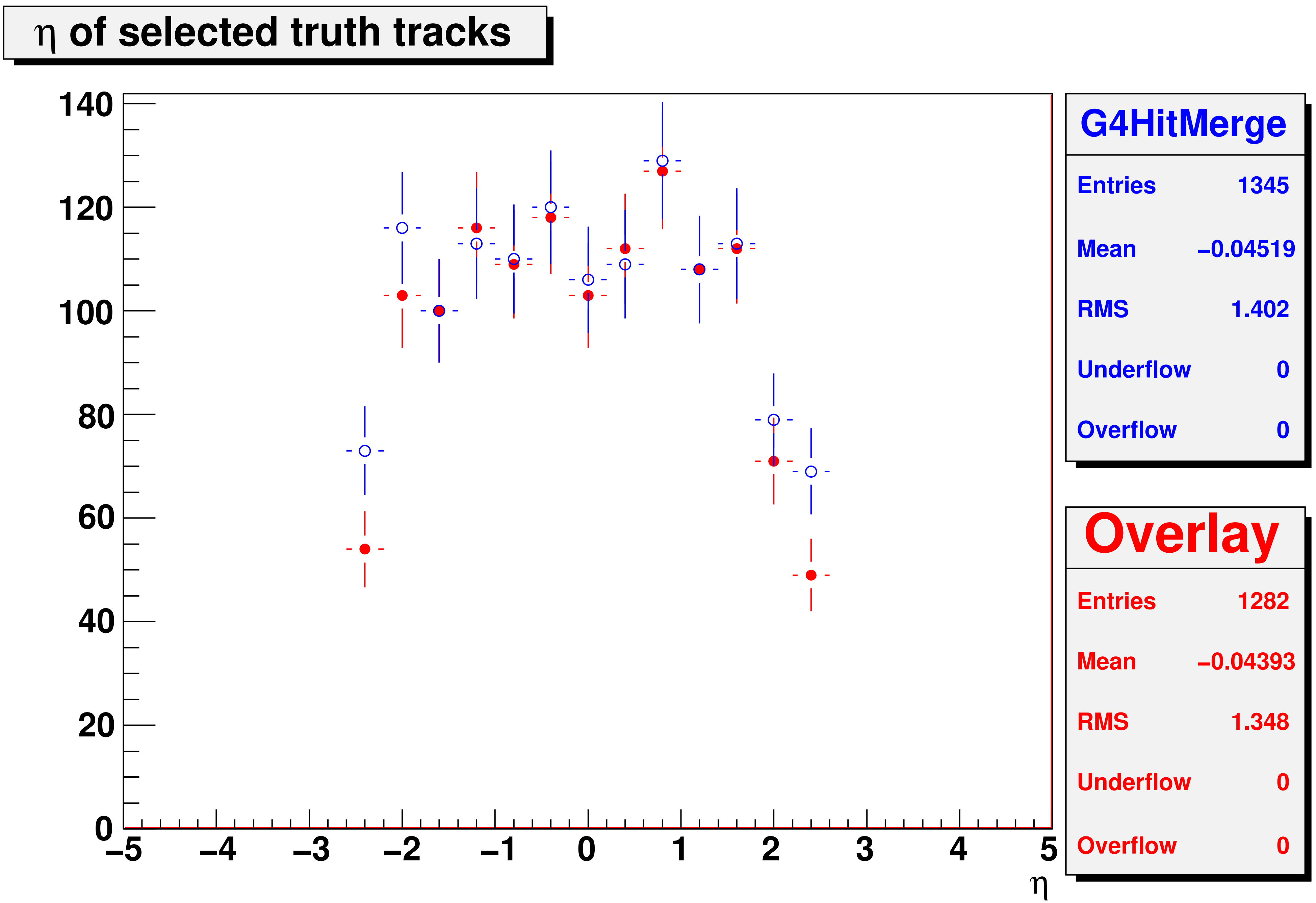


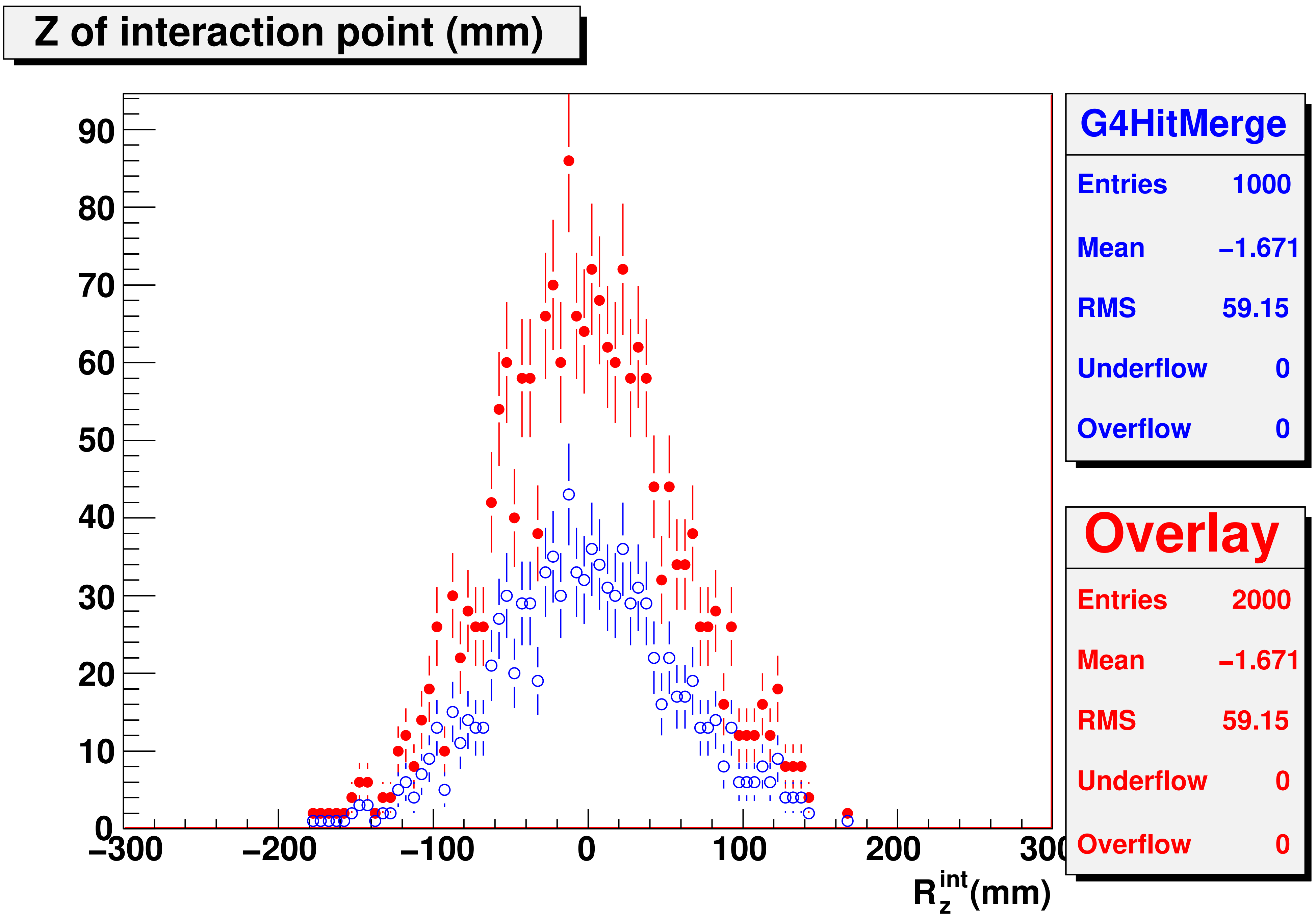
Number of Selected Tracks
700
600
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
180
200
Num. tracks
G4HitMerge
Entries 1000
Mean 1.345
RMS 0.4754
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.355
RMS 0.4785
Underflow 0
Overflow 0



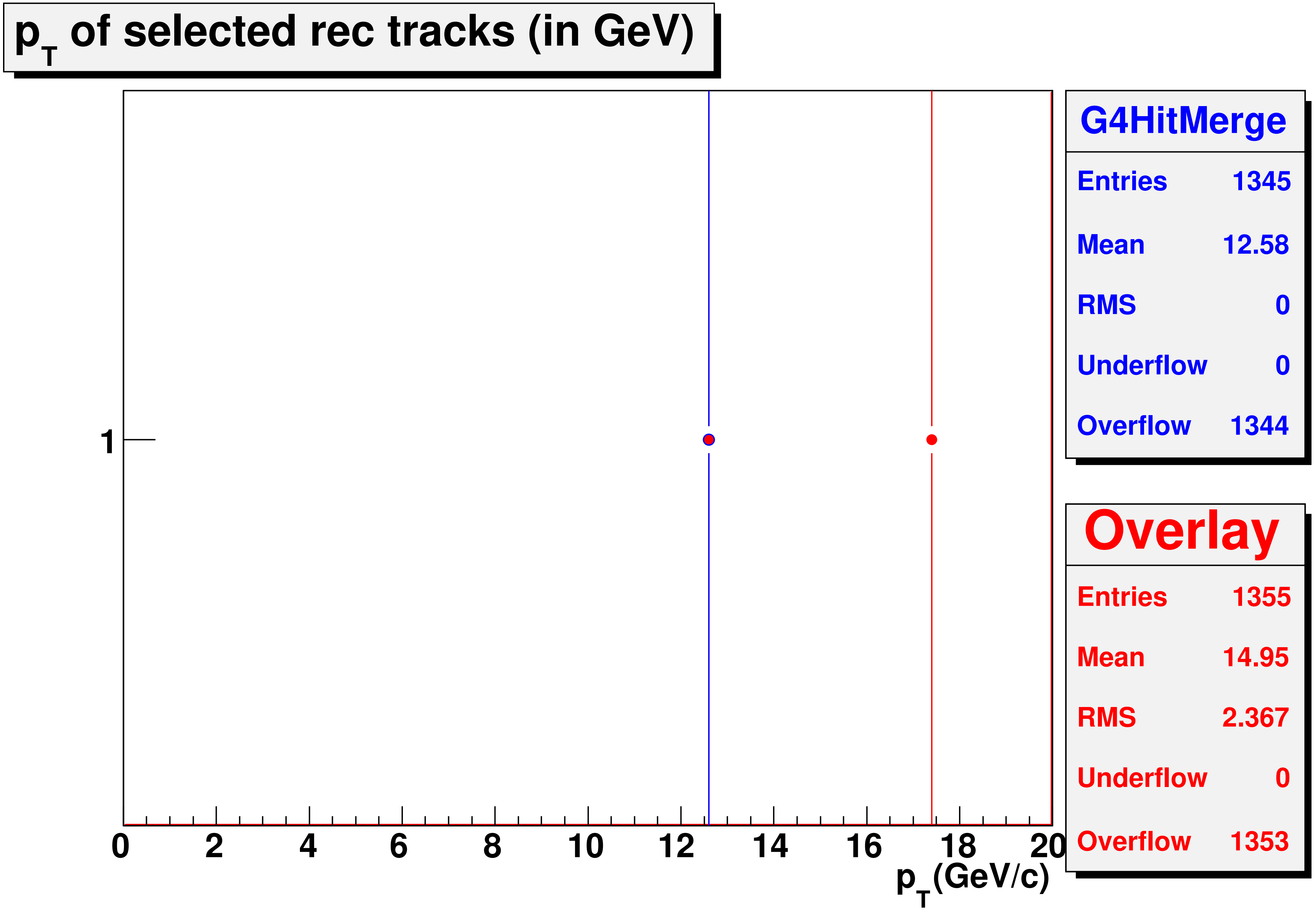
Number of Selected Tracks
G4HitMerge
Entries 1000
Mean 1.345
RMS 0.4754
Underflow 0
Overflow 0
Overlay
Entries 1000
Mean 1.355
RMS 0.4785
Underflow 0
Overflow 0
10^2
10
1
0
2
4
6
8
10
12
14
16
18
20
Num. tracks



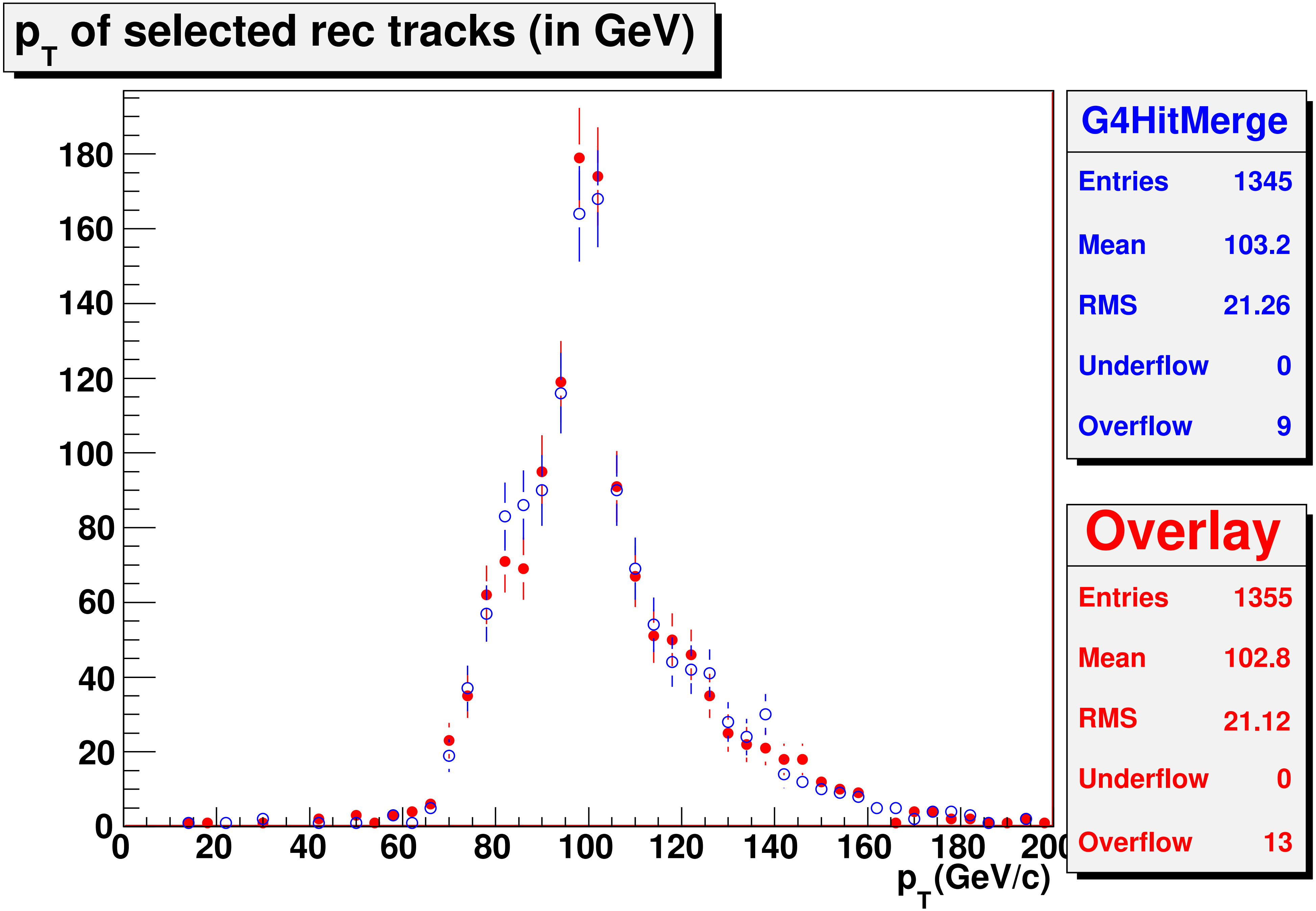
η of selected truth tracks
140
120
100
80
60
40
20
0
–5
–4
–3
–2
–1
0
1
2
3
4
5
η
G4HitMerge
Entries 1345
Mean –0.04519
RMS 1.402
Underflow 0
Overflow 0
Overlay
Entries 1282
Mean –0.04393
RMS 1.348
Underflow 0
Overflow 0



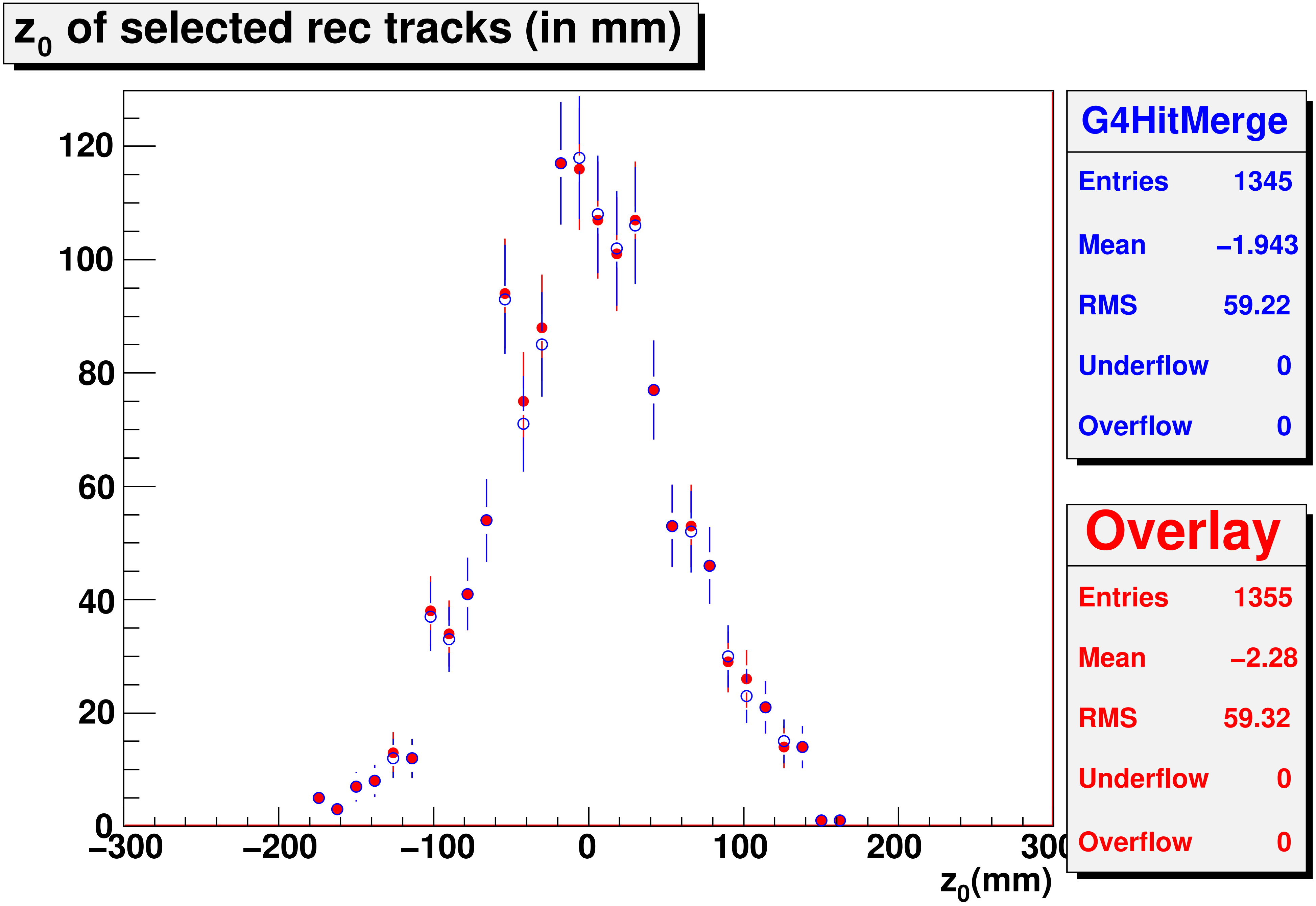
Z of interaction point (mm)
G4HitMerge
Entries 1000
Mean −1.671
RMS 59.15
Underflow 0
Overflow 0
Overlay
Entries 2000
Mean −1.671
RMS 59.15
Underflow 0
Overflow 0
R_z^{int}(mm)



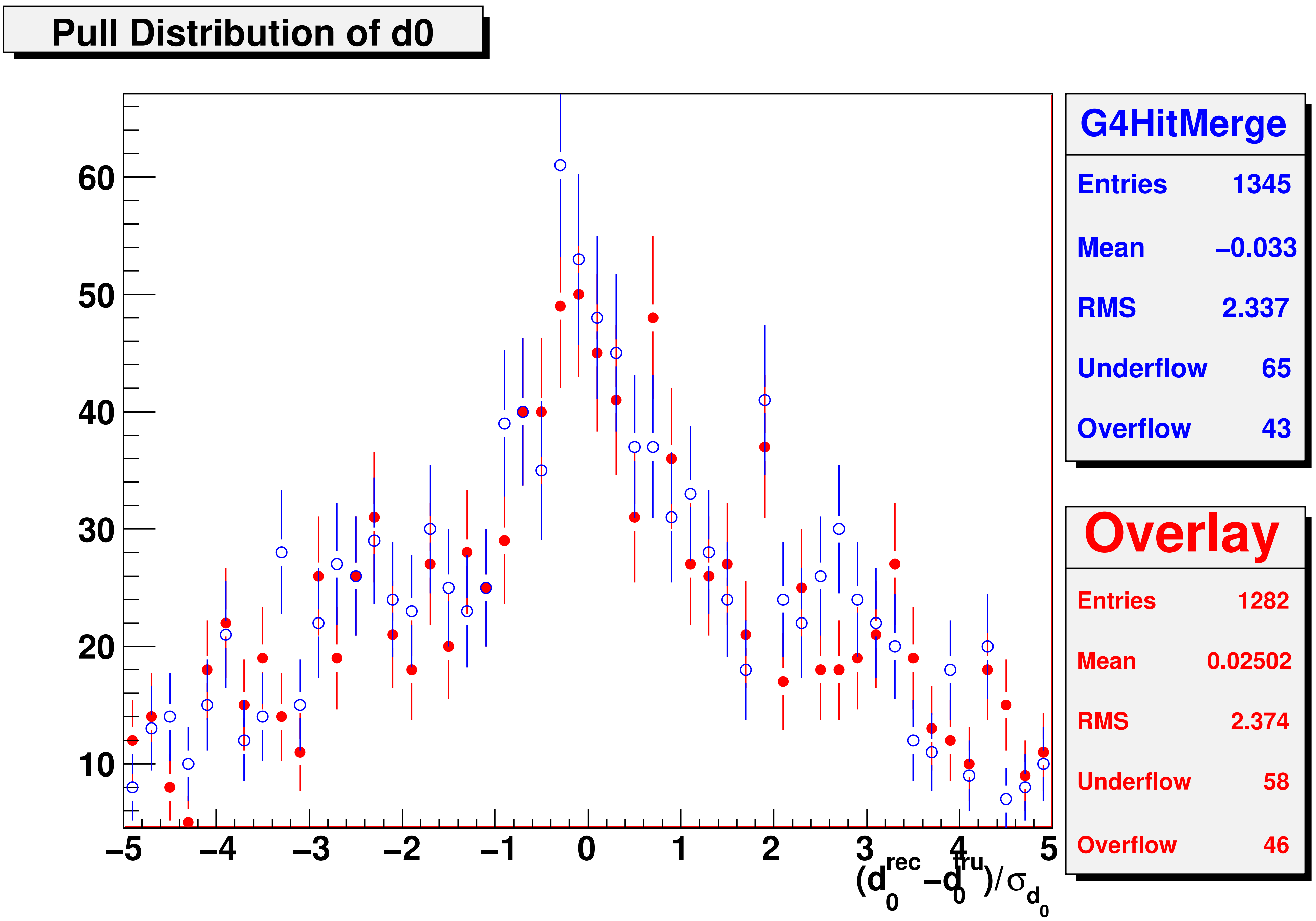
p_T of selected rec tracks (in GeV)
1
0
2
4
6
8
10
12
14
16
18
20
p_T(GeV/c)
G4HitMerge
Entries 1345
Mean 12.58
RMS 0
Underflow 0
Overflow 1344
Overlay
Entries 1355
Mean 14.95
RMS 2.367
Underflow 0
Overflow 1353

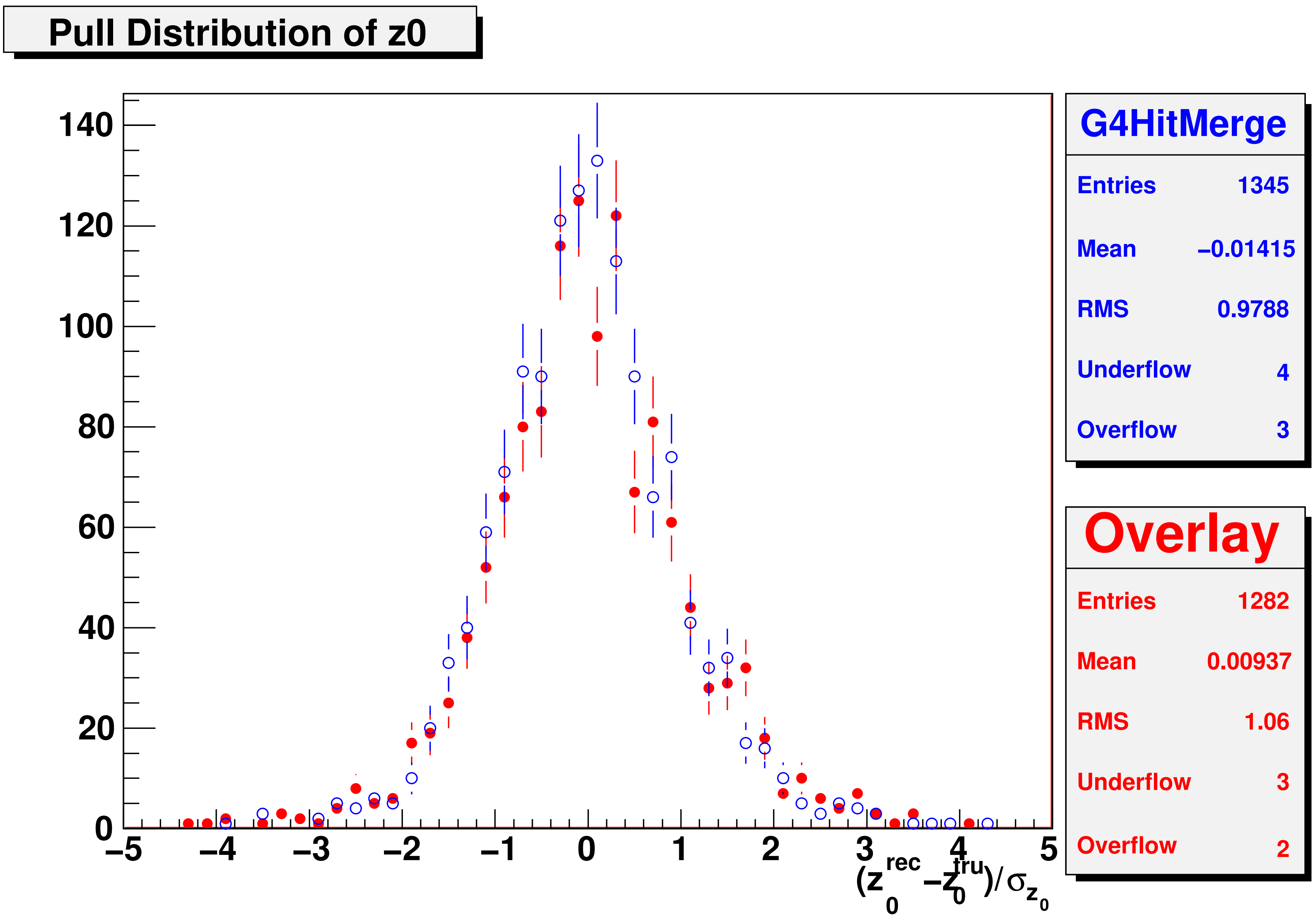


p_T of selected rec tracks (in GeV)
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
200
p_T(GeV/c)
G4HitMerge
Entries 1345
Mean 103.2
RMS 21.26
Underflow 0
Overflow 9
Overlay
Entries 1355
Mean 102.8
RMS 21.12
Underflow 0
Overflow 13

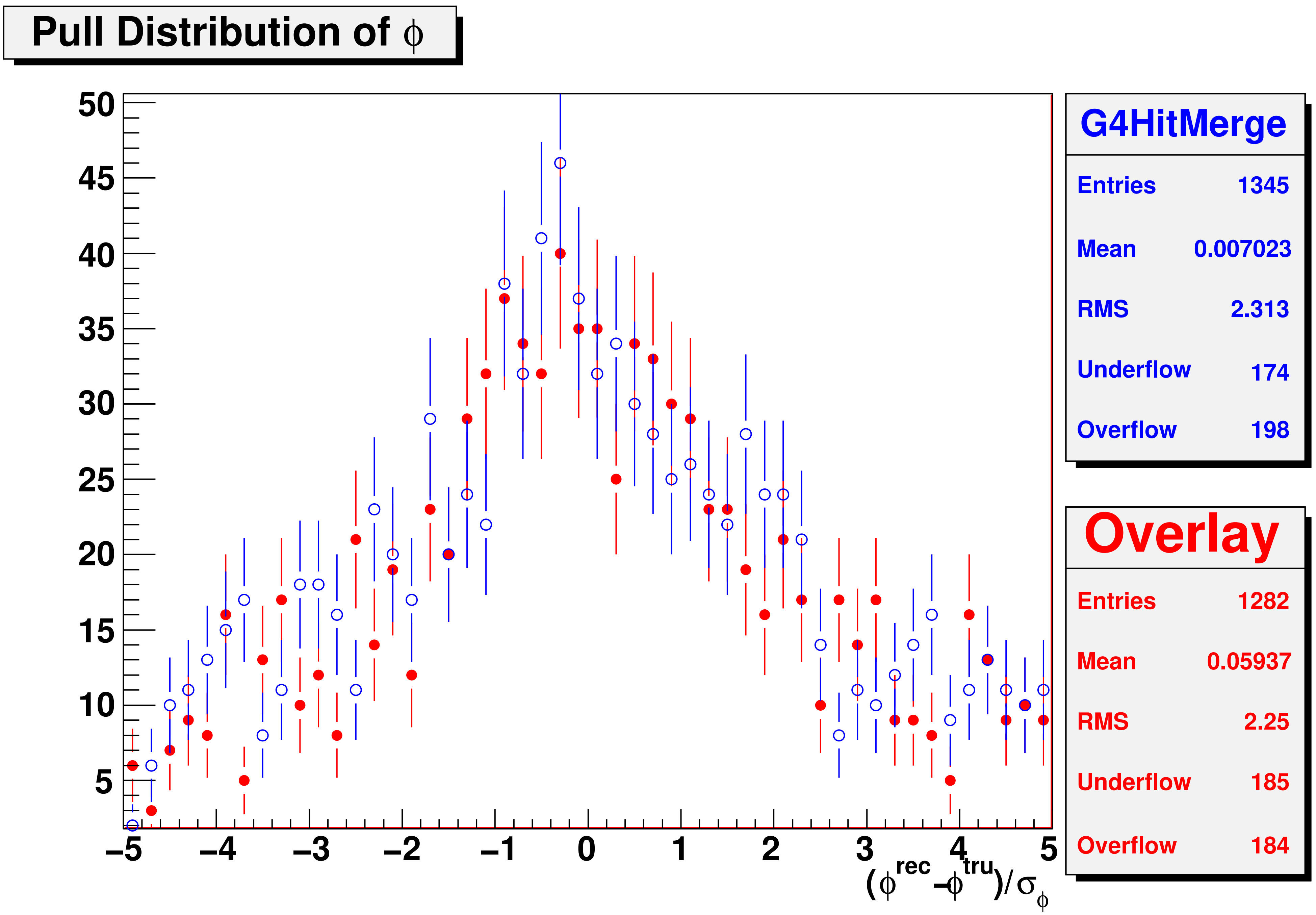


z_0 of selected rec tracks (in mm)
G4HitMerge
Entries 1345
Mean −1.943
RMS 59.22
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean −2.28
RMS 59.32
Underflow 0
Overflow 0
0
20
40
60
80
100
120
−300
−200
−100
0
100
200
300
z_0(mm)

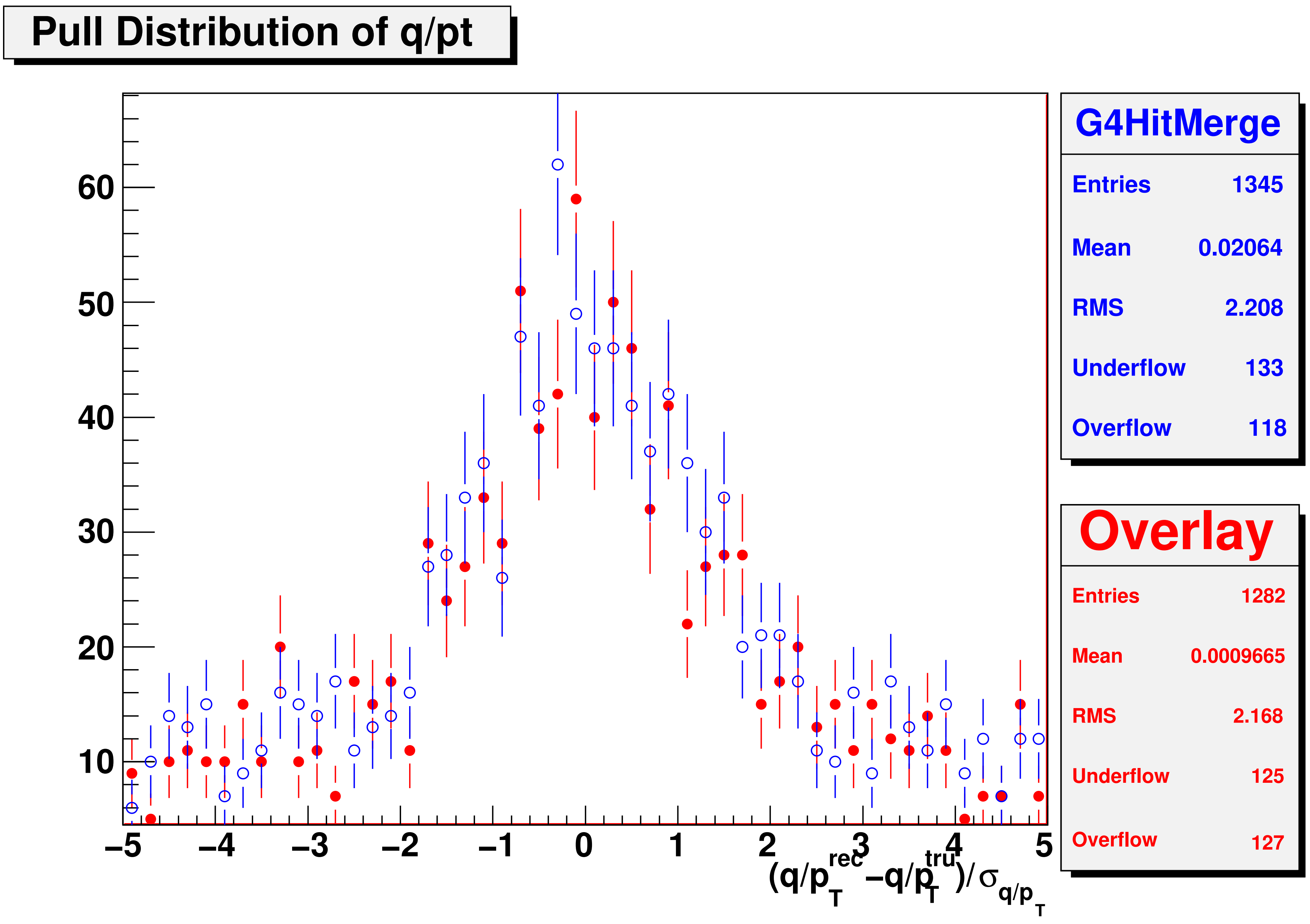

Pull Distribution of d0
G4HitMerge
Entries 1345
Mean −0.033
RMS 2.337
Underflow 65
Overflow 43
Overlay
Entries 1282
Mean 0.02502
RMS 2.374
Underflow 58
Overflow 46
$(d_0^{rec}-d_0^{tru})/\sigma_{d_0}$



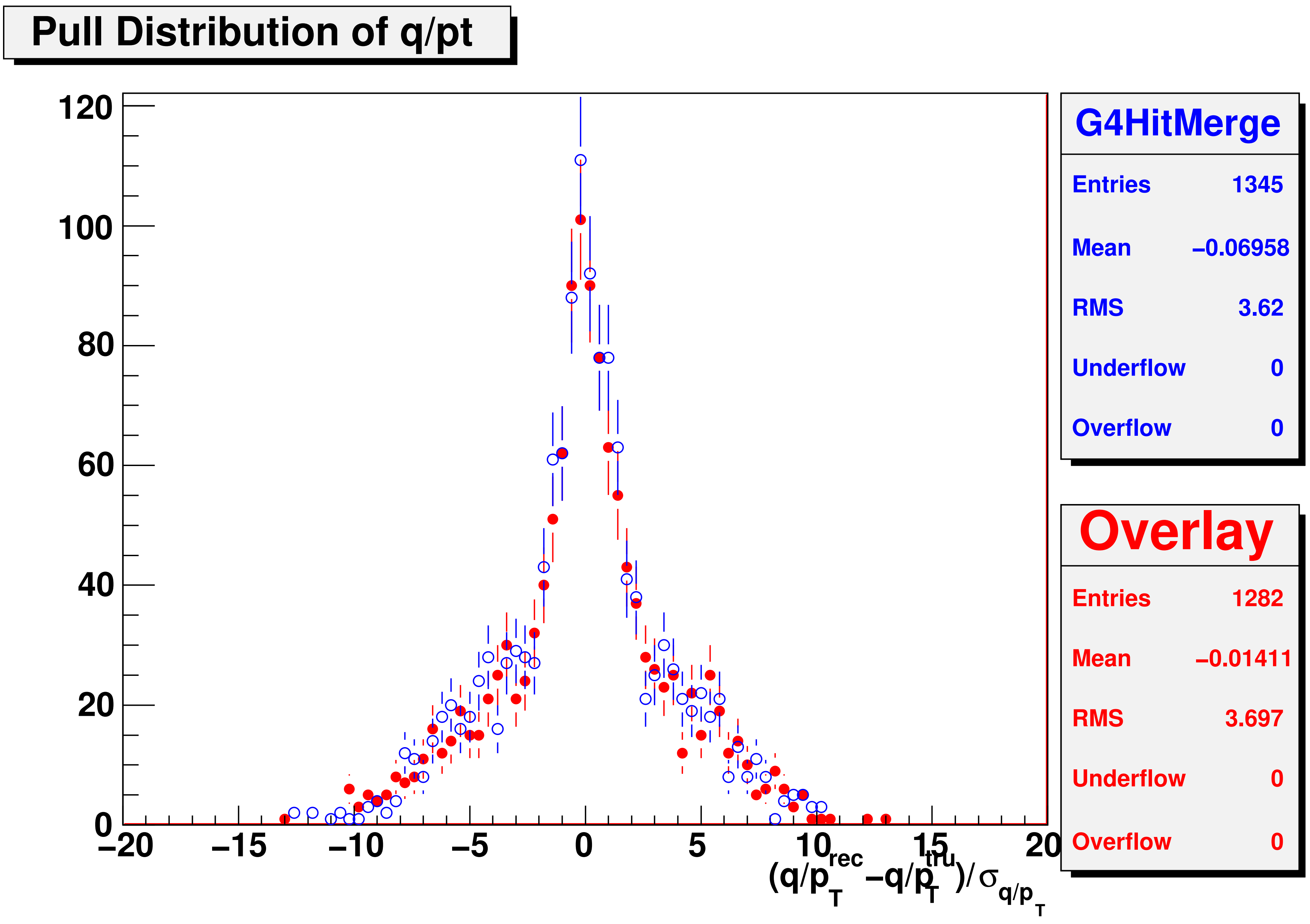
Pull Distribution of z0
G4HitMerge
Entries 1345
Mean −0.01415
RMS 0.9788
Underflow 4
Overflow 3
Overlay
Entries 1282
Mean 0.00937
RMS 1.06
Underflow 3
Overflow 2
$(z_0^{rec} - z_0^{tru})/\sigma_{z_0}$



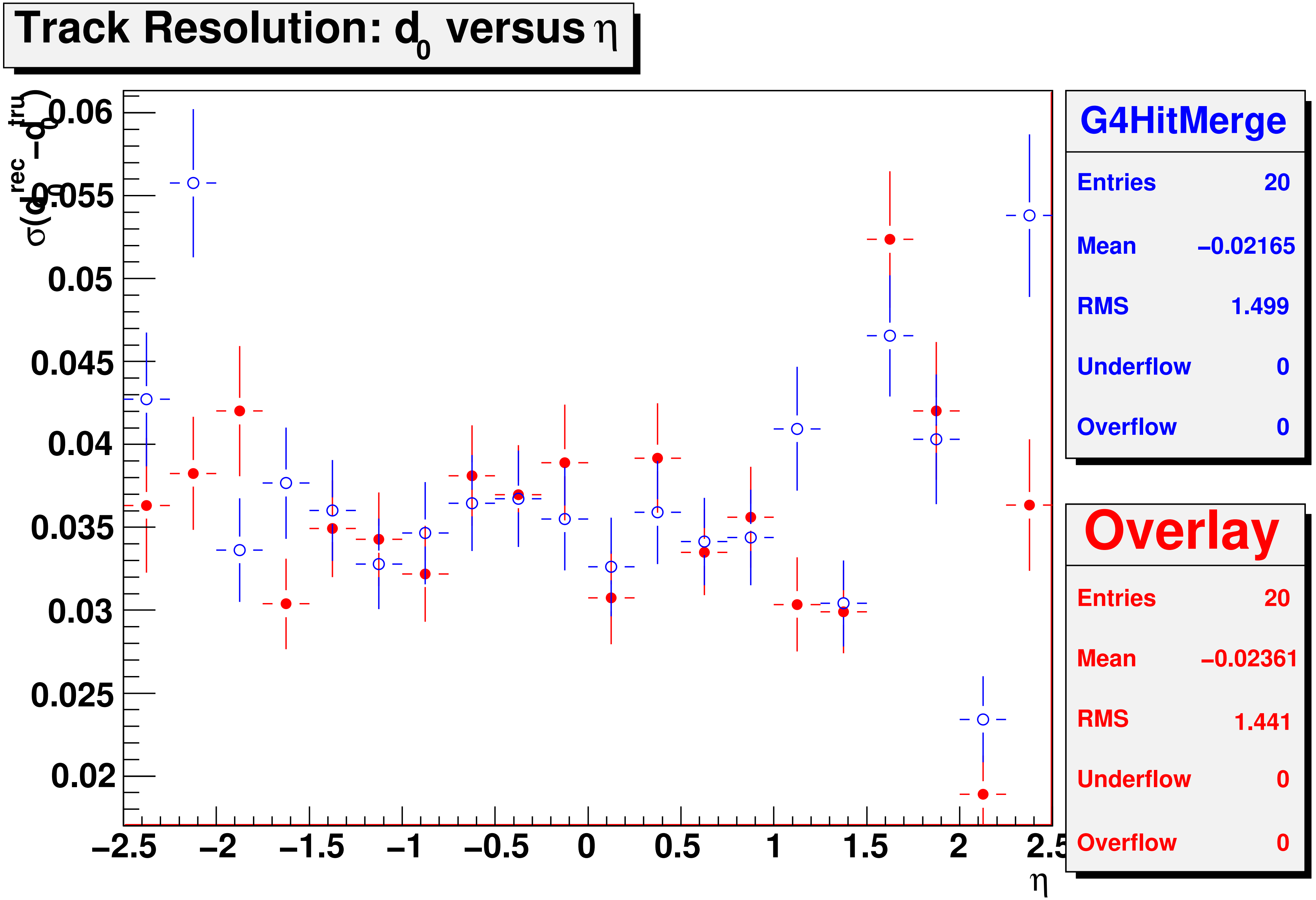
Pull Distribution of ϕ
50
45
40
35
30
25
20
15
10
5
–5
–4
–3
–2
–1
0
1
2
3
4
5
$(\phi^{rec}-\phi^{tru})/\sigma_{\phi}$
G4HitMerge
Entries 1345
Mean 0.007023
RMS 2.313
Underflow 174
Overflow 198
Overlay
Entries 1282
Mean 0.05937
RMS 2.25
Underflow 185
Overflow 184

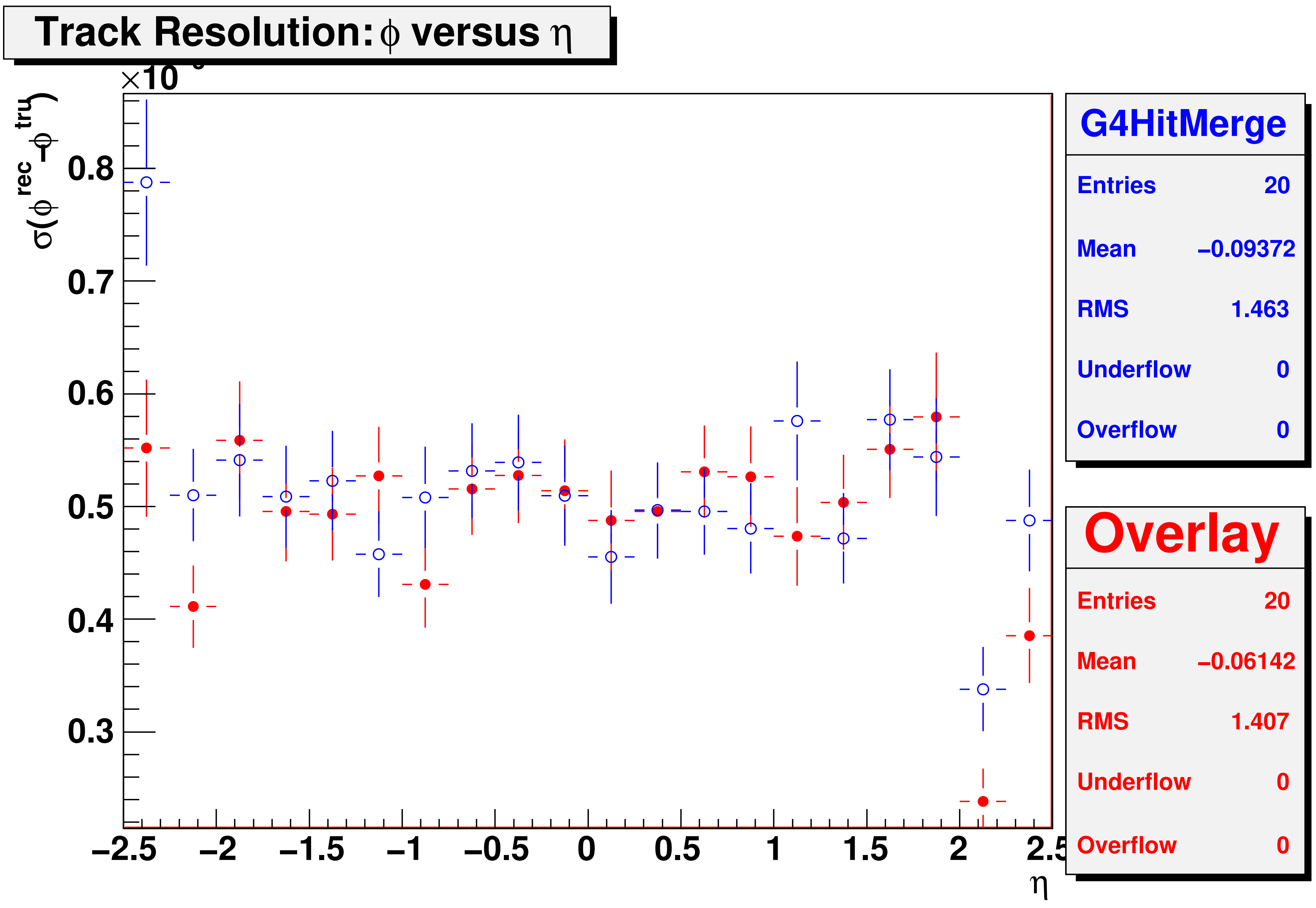


Pull Distribution of q/pt
G4HitMerge
Entries 1345
Mean 0.02064
RMS 2.208
Underflow 133
Overflow 118
Overlay
Entries 1282
Mean 0.0009665
RMS 2.168
Underflow 125
Overflow 127
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$
10
20
30
40
50
60
–5
–4
–3
–2
–1
0
1
2
3
4
5

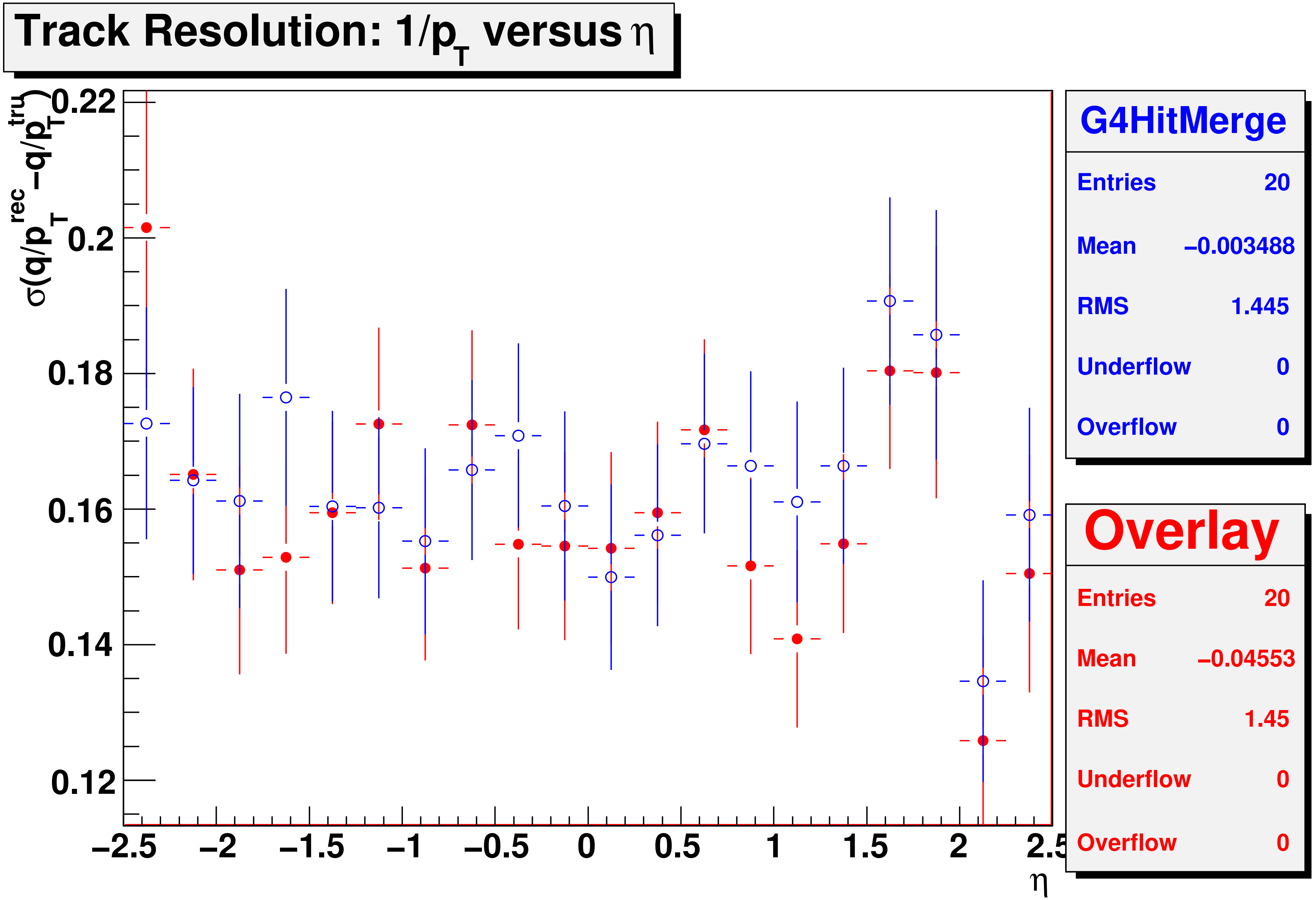


Pull Distribution of q/pt
G4HitMerge
Entries 1345
Mean −0.06958
RMS 3.62
Underflow 0
Overflow 0
Overlay
Entries 1282
Mean −0.01411
RMS 3.697
Underflow 0
Overflow 0
$(q/p_T^{rec} - q/p_T^{tru})/\sigma_{q/p_T}$

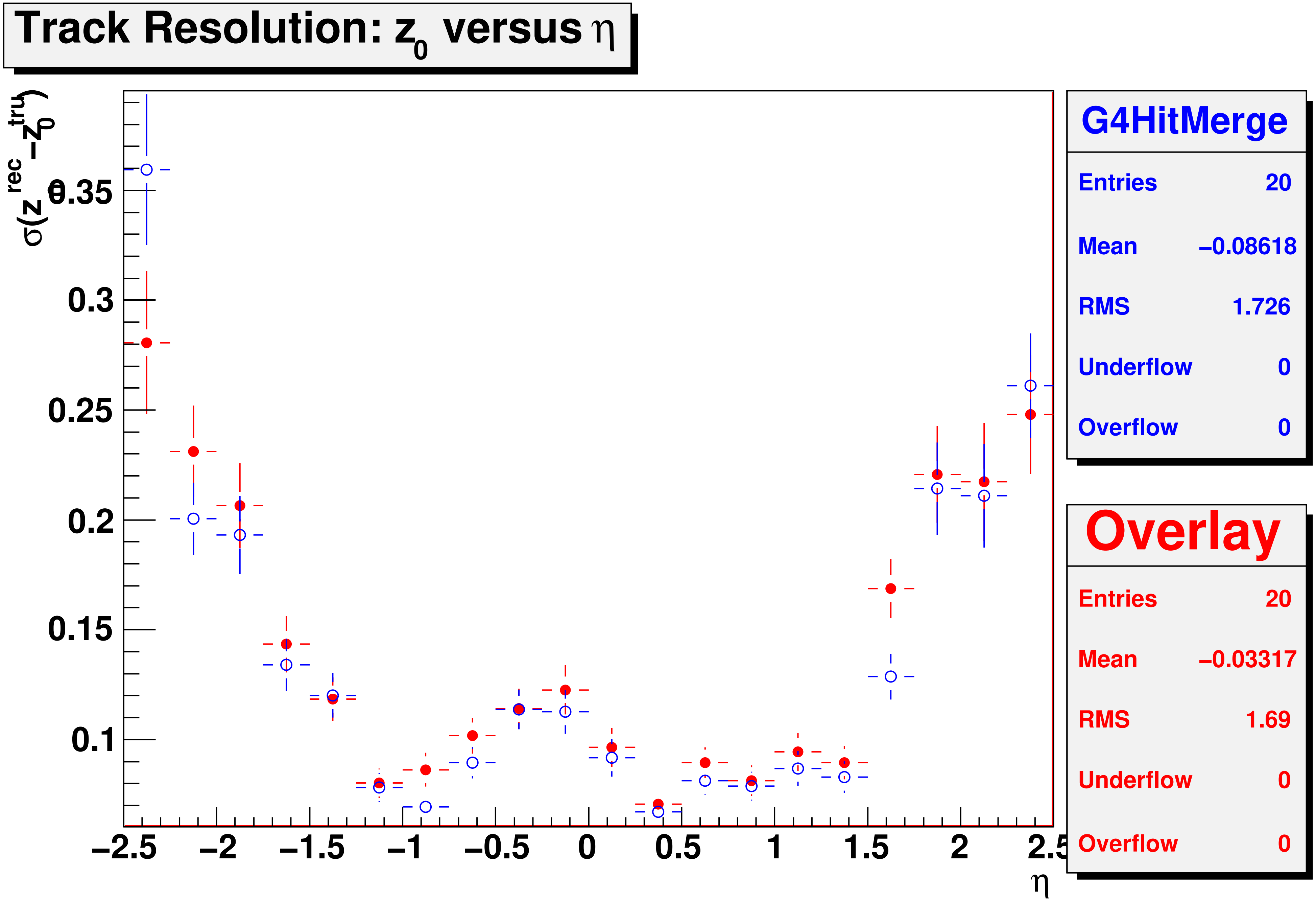

Track Resolution: d0 versus η
σ(d0rec − d0tru)
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.02165
RMS 1.499
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.02361
RMS 1.441
Underflow 0
Overflow 0



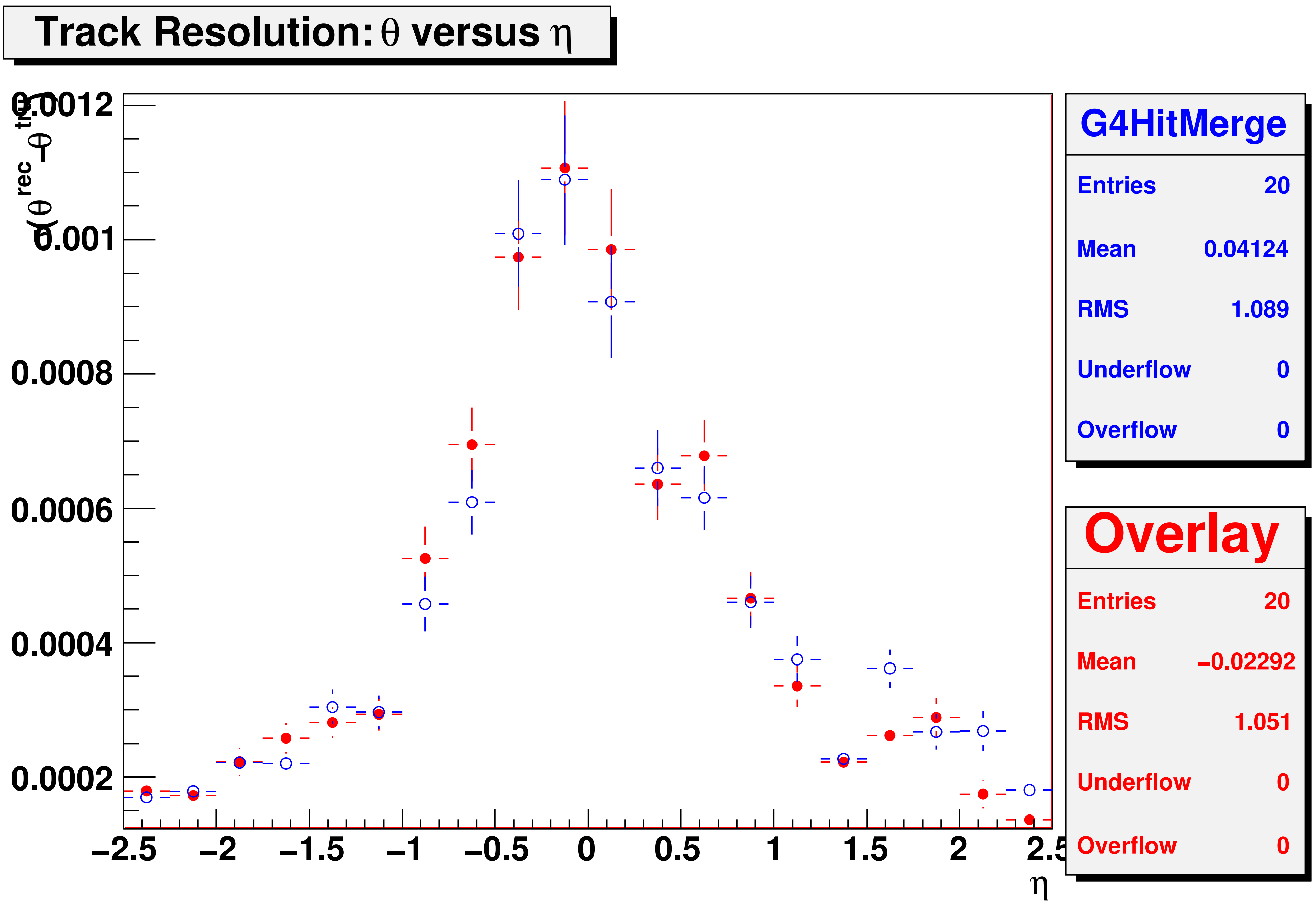
Track Resolution: φ versus η
×10
σ(φ^rec−φ^tru)
0.8
0.7
0.6
0.5
0.4
0.3
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.09372
RMS 1.463
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.06142
RMS 1.407
Underflow 0
Overflow 0



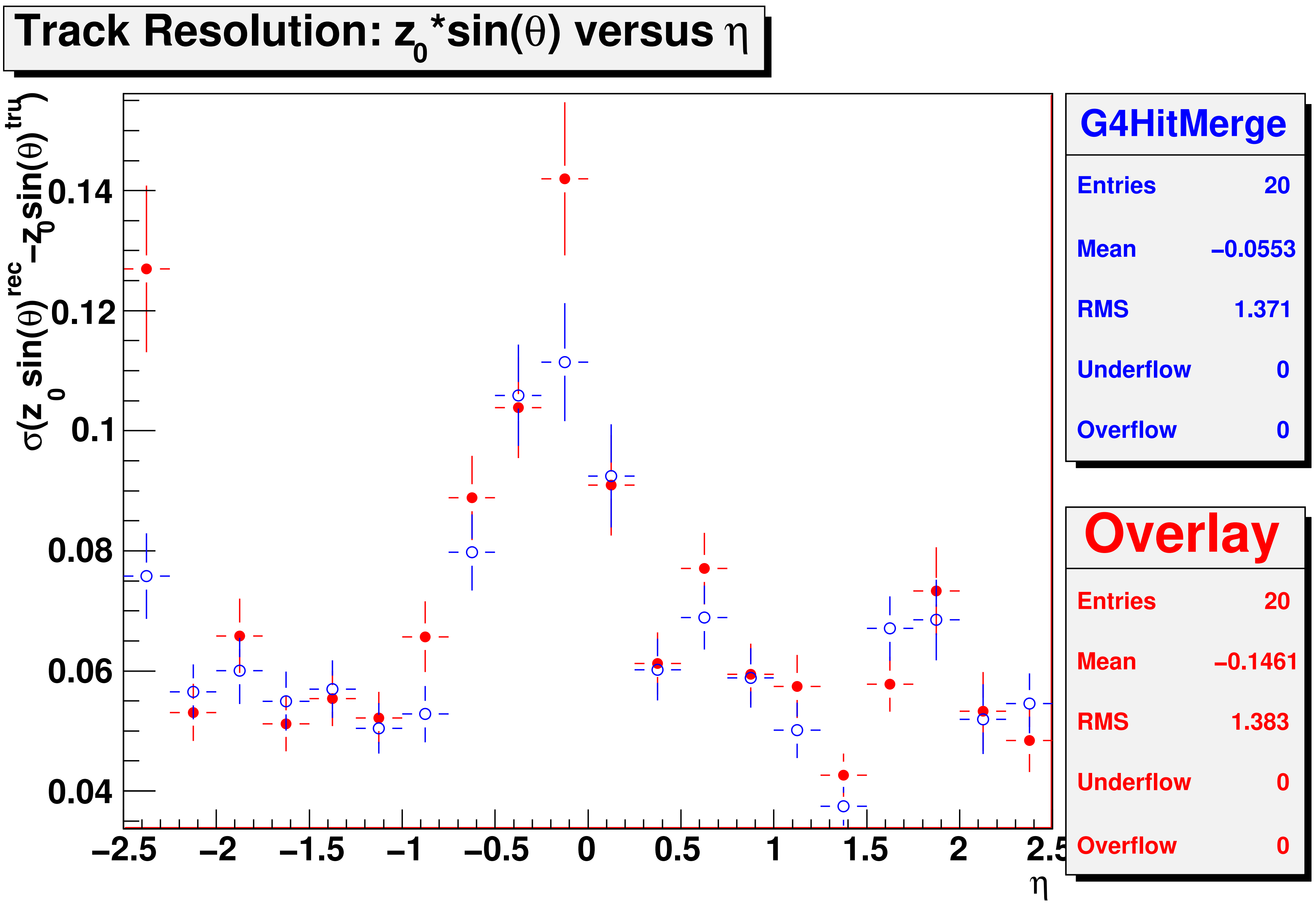
Track Resolution: 1/p_T versus η
$\sigma(q/p_T^{rec} - q/p_T^{tru})$
0.22
0.2
0.18
0.16
0.14
0.12
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.003488
RMS 1.445
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.04553
RMS 1.45
Underflow 0
Overflow 0

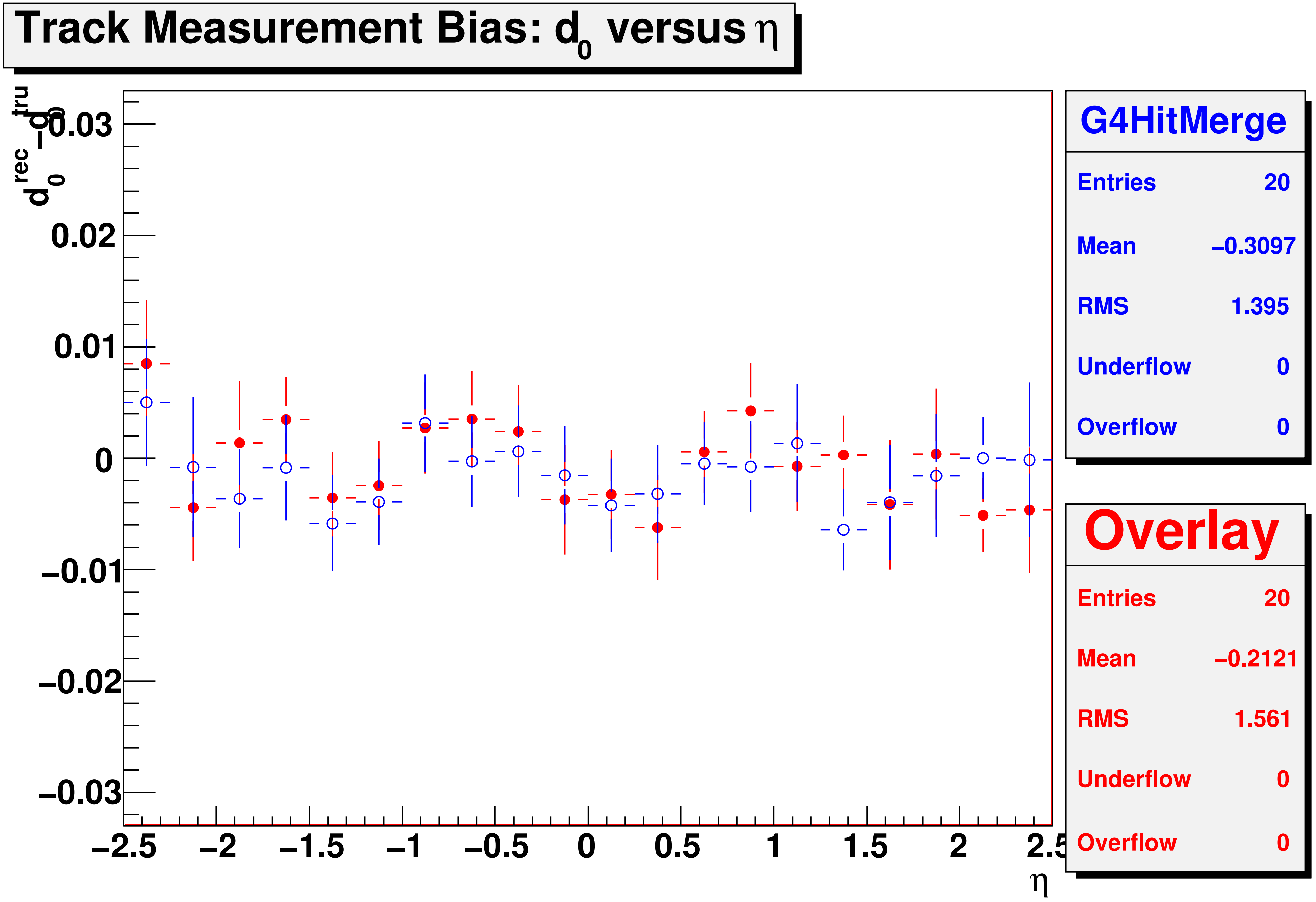


Track Resolution: z_0 versus η
$\sigma(z_0^{rec}-z_0^{tru})$
0.35
0.3
0.25
0.2
0.15
0.1
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.08618
RMS 1.726
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.03317
RMS 1.69
Underflow 0
Overflow 0

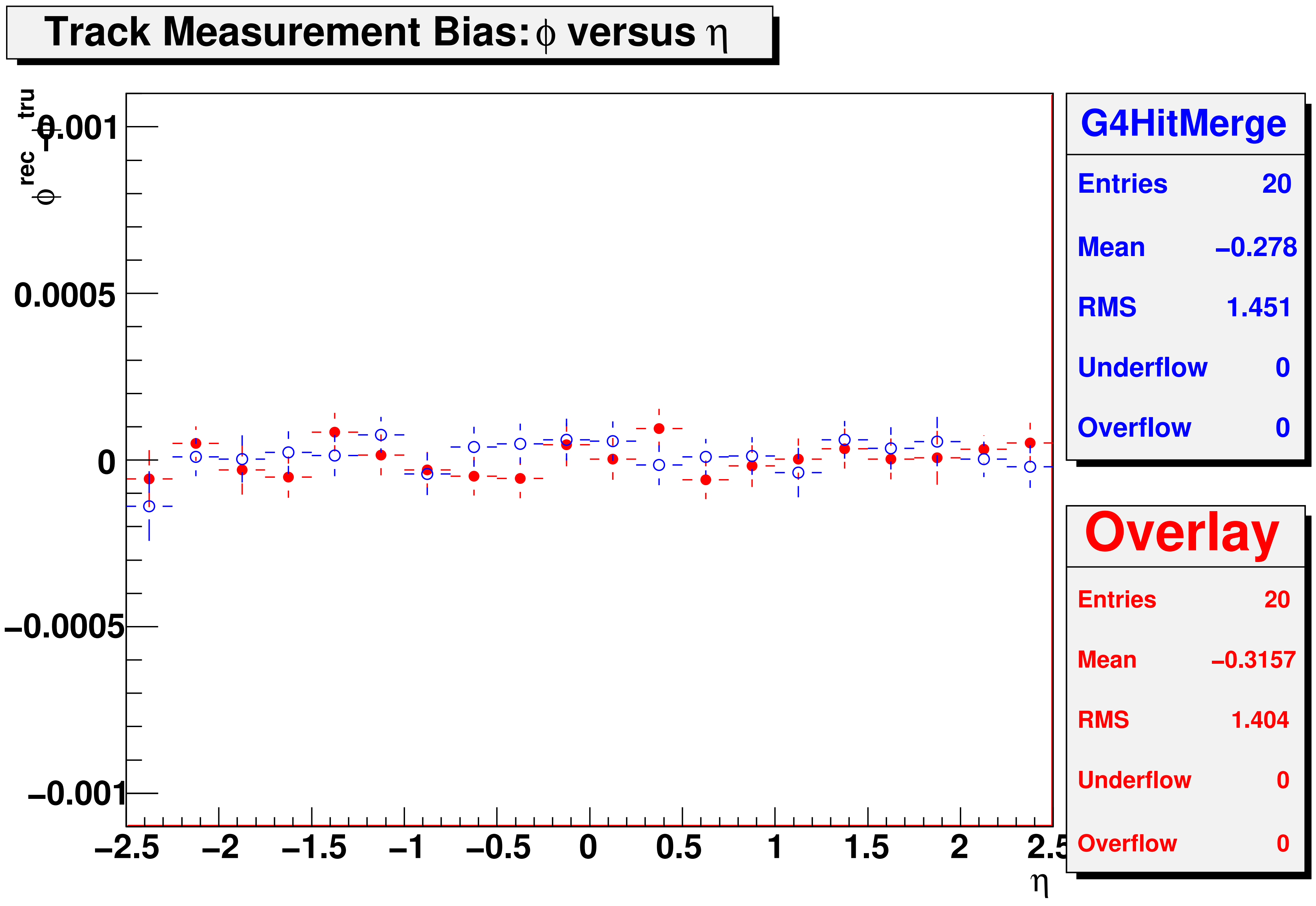


Track Resolution: θ versus η
$(\theta^{rec}-\theta^{tru})$
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.04124
RMS 1.089
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.02292
RMS 1.051
Underflow 0
Overflow 0

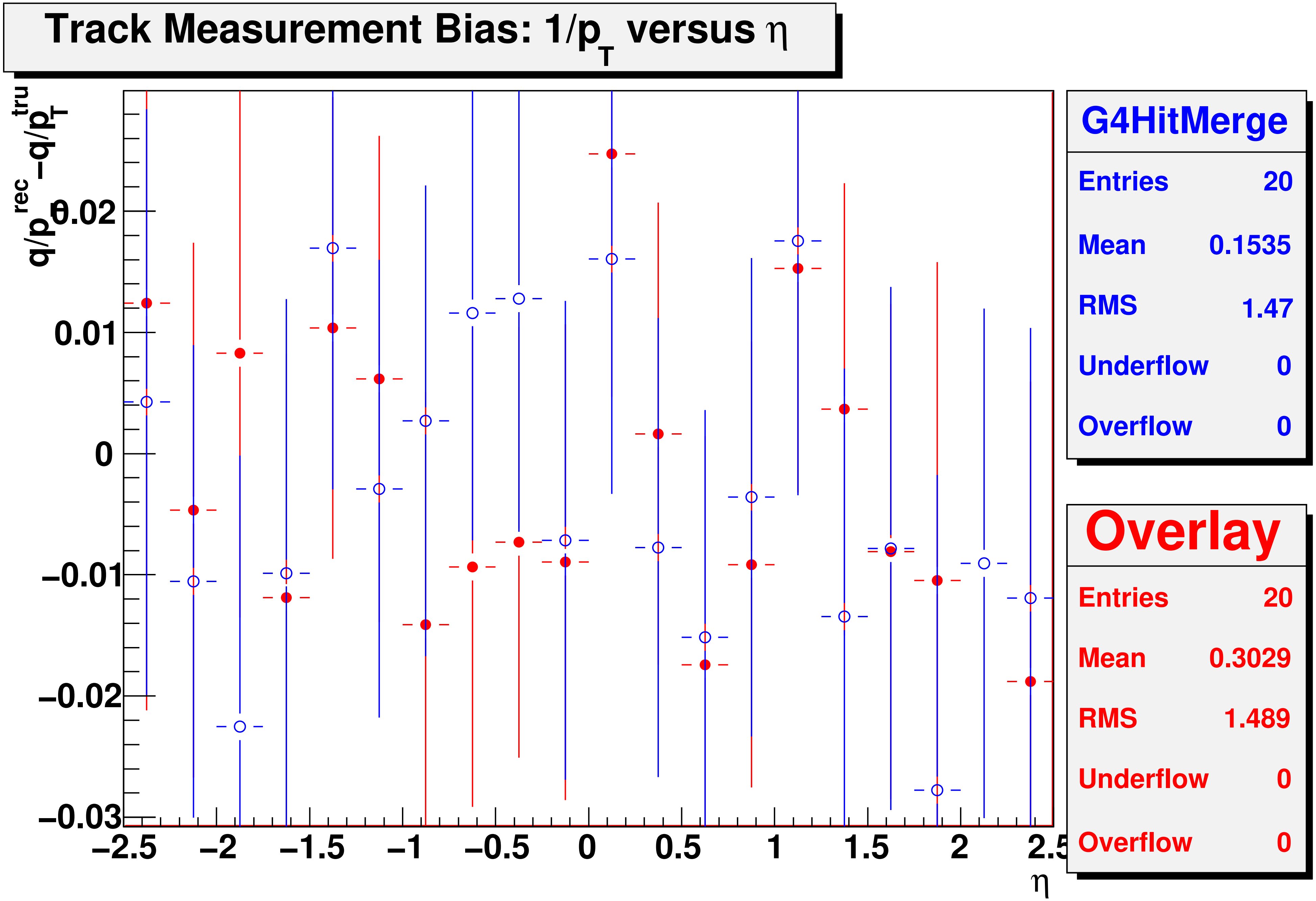

Track Resolution: z_0*sin(θ) versus η
$\sigma(z_0 \sin(\theta)^{rec} - z_0 \sin(\theta)^{tru})$
η
G4HitMerge
Entries 20
Mean −0.0553
RMS 1.371
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.1461
RMS 1.383
Underflow 0
Overflow 0



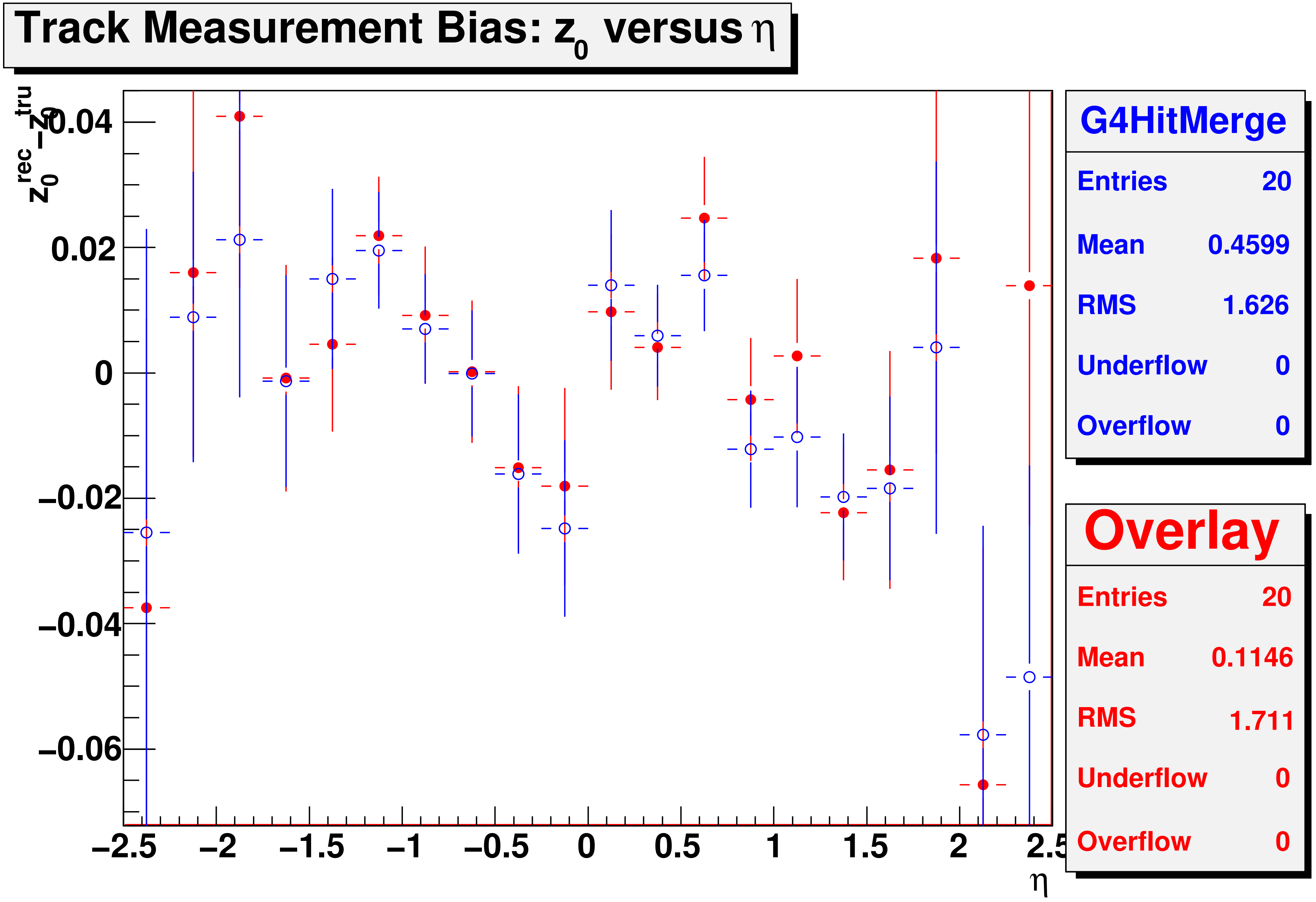
Track Measurement Bias: d_0 versus η
$d_0^{rec}-d_0^{tru}$
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.3097
RMS 1.395
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.2121
RMS 1.561
Underflow 0
Overflow 0



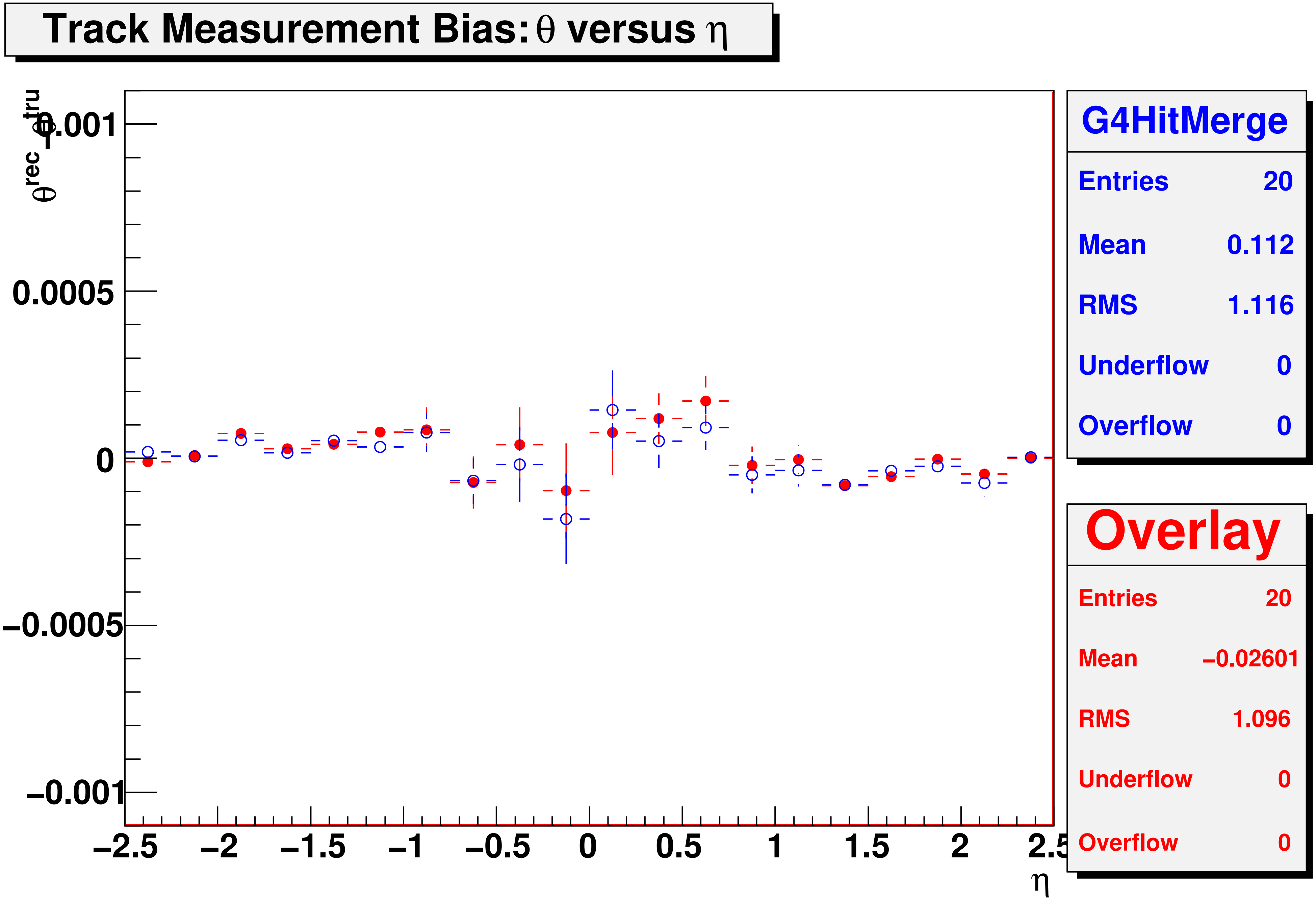
Track Measurement Bias: ϕ versus η
$\phi^{rec}-\phi^{tru}$
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean −0.278
RMS 1.451
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.3157
RMS 1.404
Underflow 0
Overflow 0



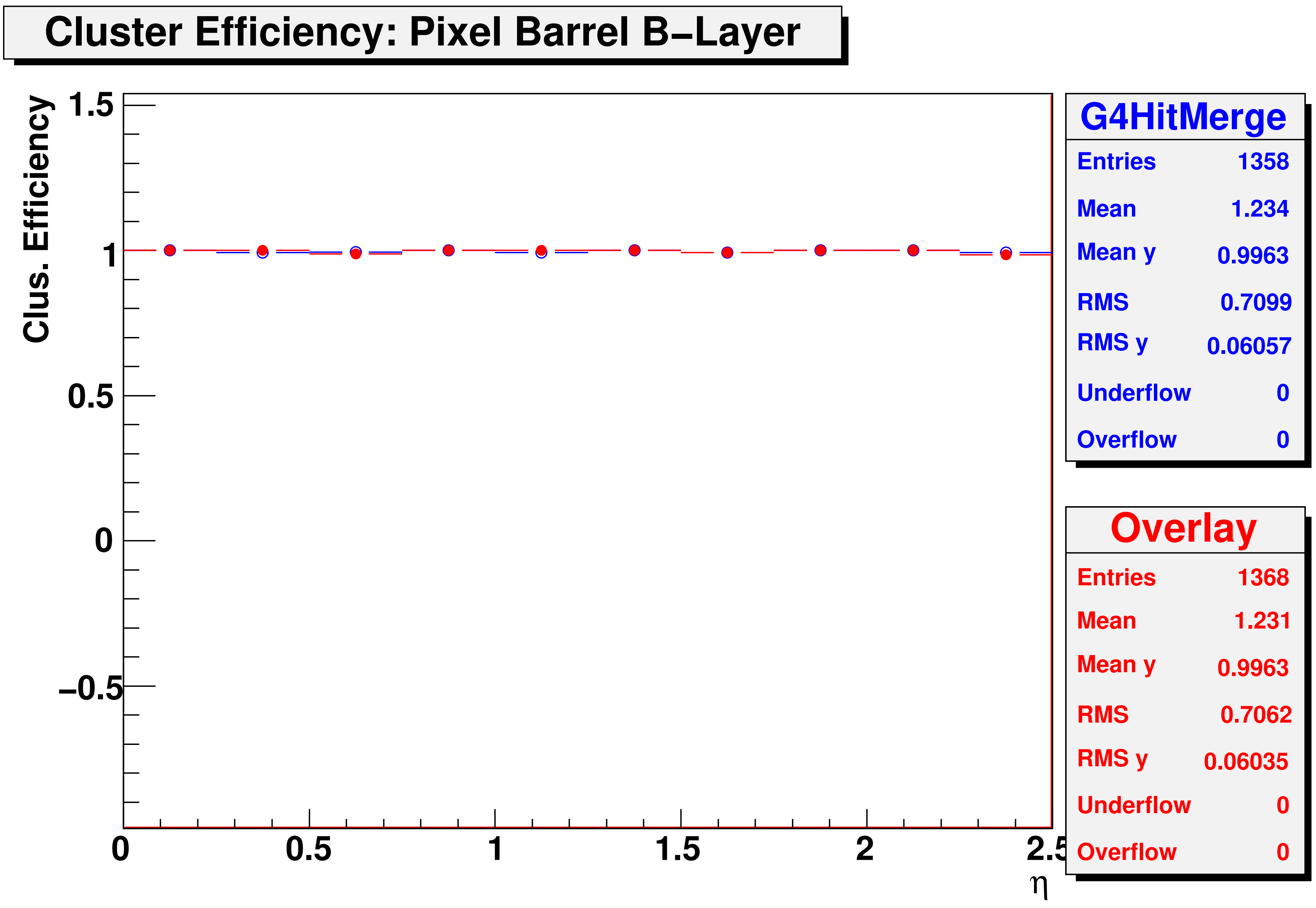
Track Measurement Bias: 1/p_T versus η
$q/p_T^{rec} - q/p_T^{tru}$
0.02
0.01
0
−0.01
−0.02
−0.03
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.1535
RMS 1.47
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.3029
RMS 1.489
Underflow 0
Overflow 0

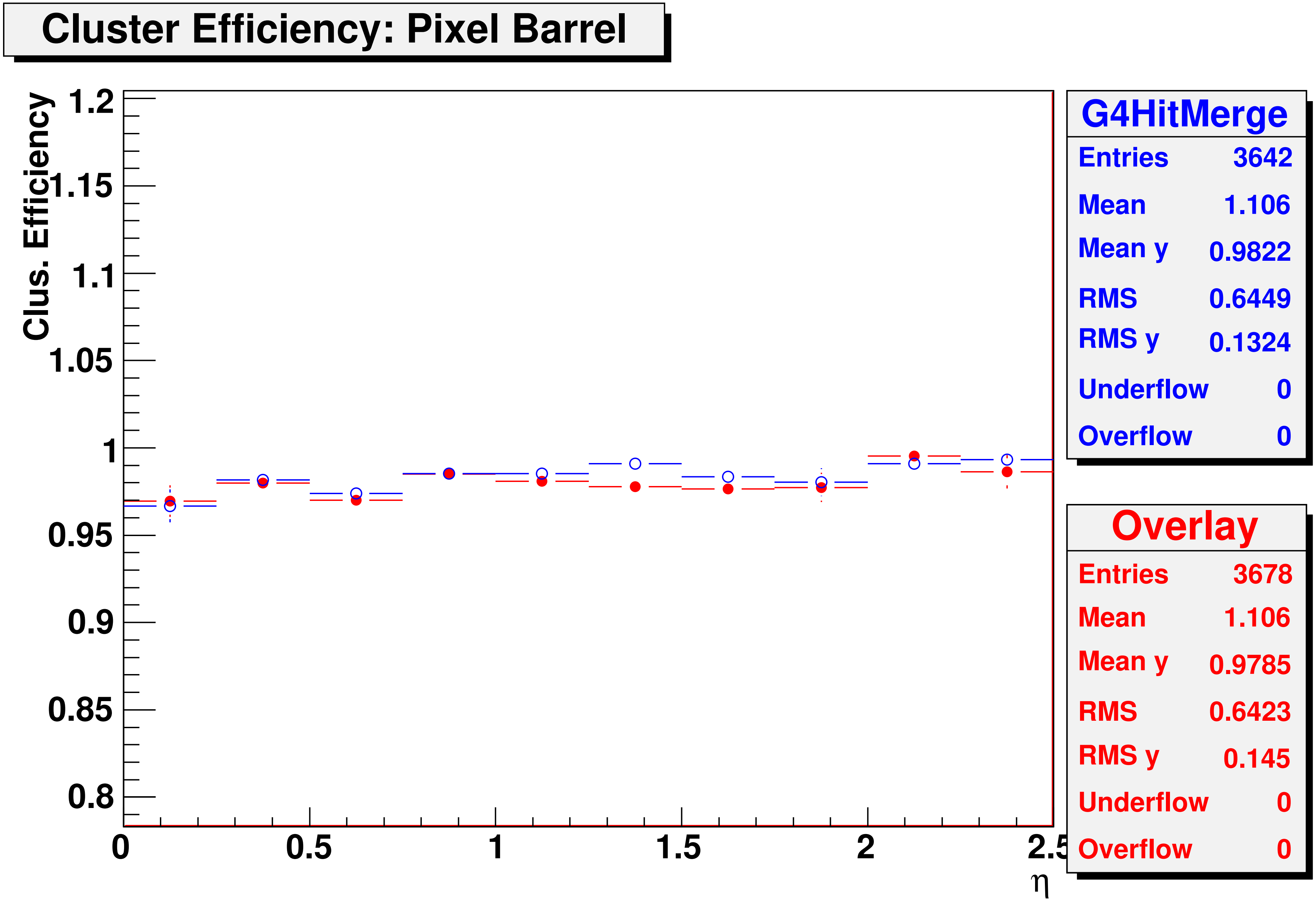


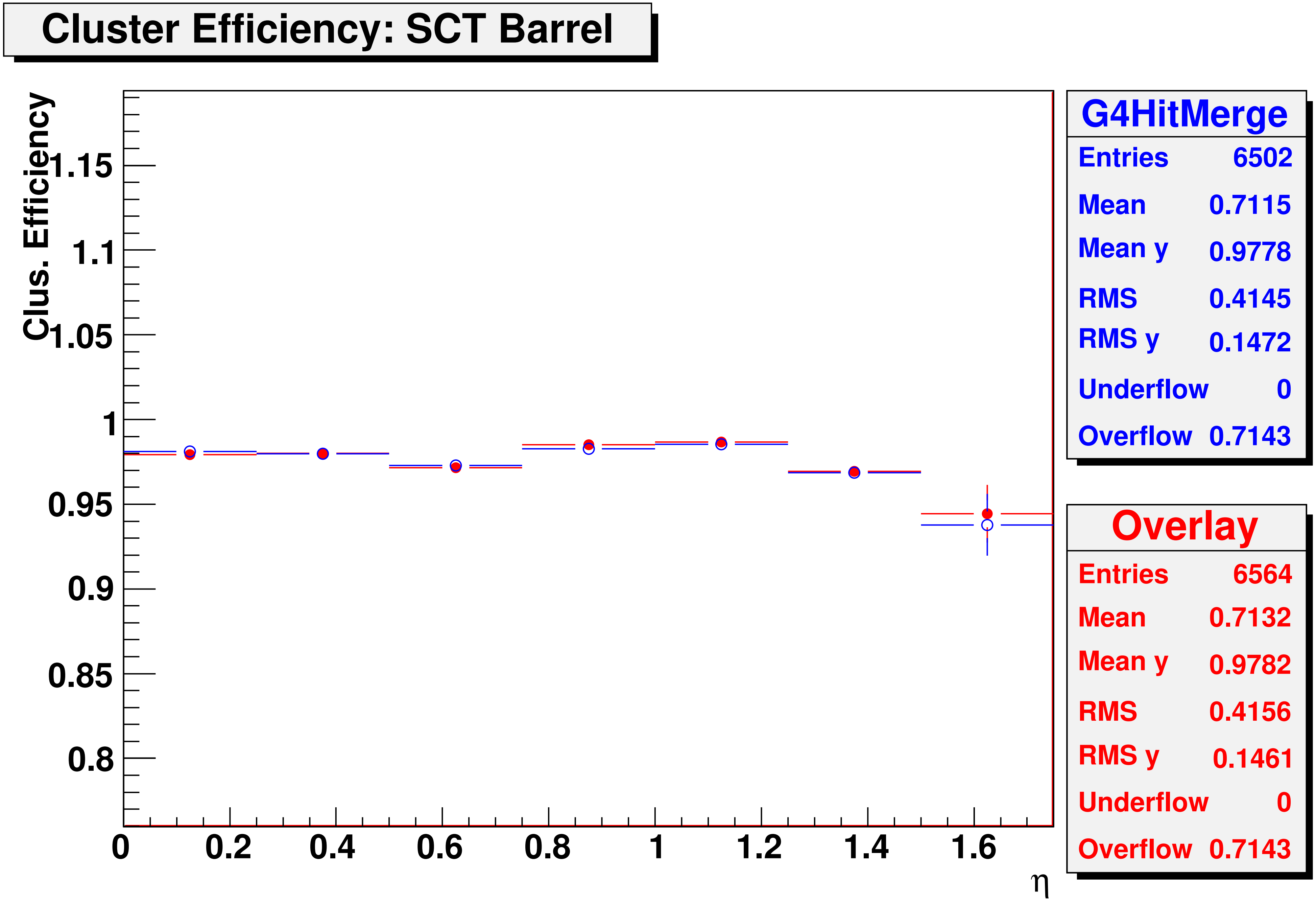
Track Measurement Bias: z_0 versus η
$z_0^{rec} - z_0^{tru}$
0.04
0.02
0
−0.02
−0.04
−0.06
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.4599
RMS 1.626
Underflow 0
Overflow 0
Overlay
Entries 20
Mean 0.1146
RMS 1.711
Underflow 0
Overflow 0



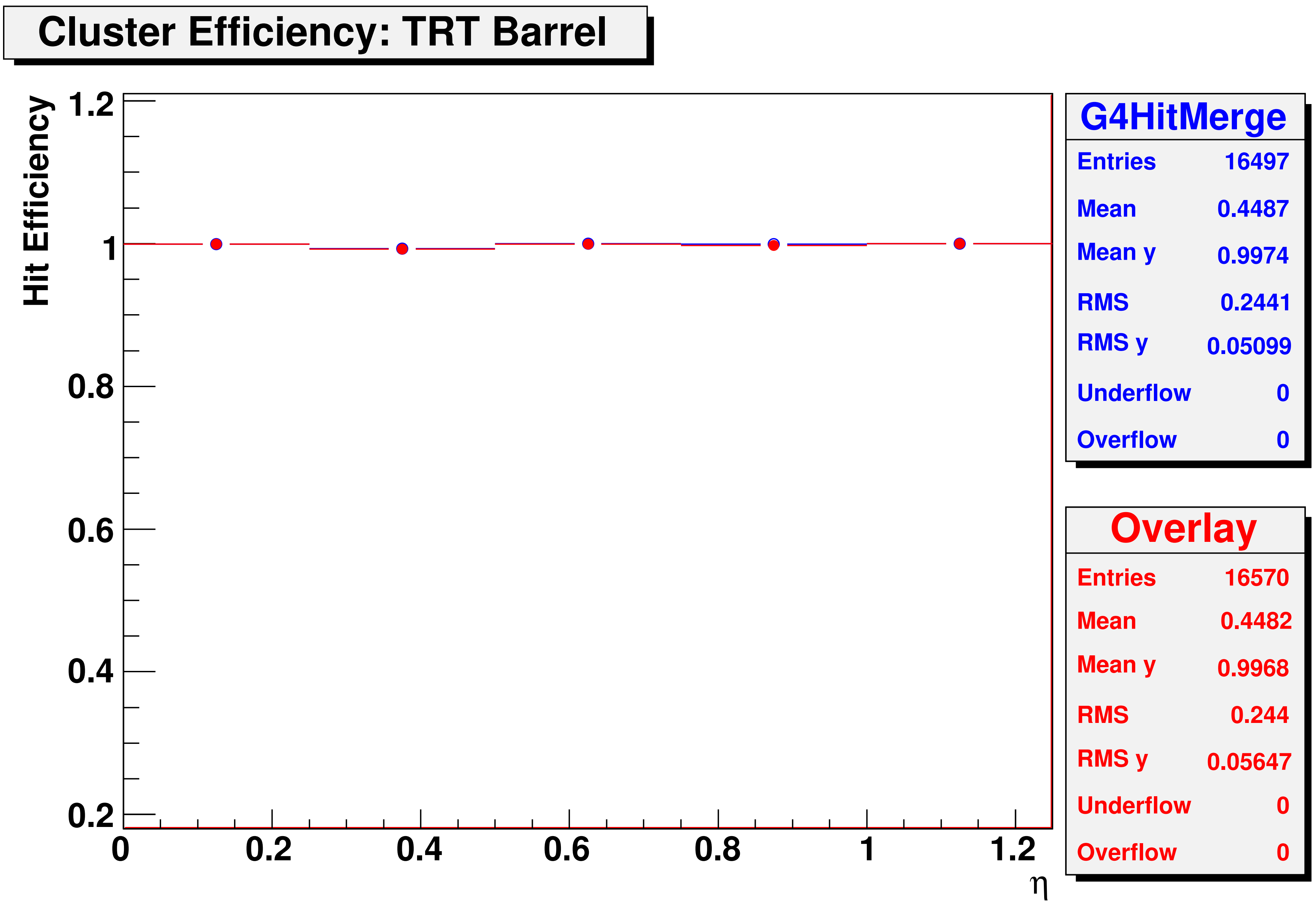
Track Measurement Bias: θ versus η
$\theta^{rec}-\theta^{tru}$
0.001
0.0005
0
−0.0005
−0.001
−2.5
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 20
Mean 0.112
RMS 1.116
Underflow 0
Overflow 0
Overlay
Entries 20
Mean −0.02601
RMS 1.096
Underflow 0
Overflow 0

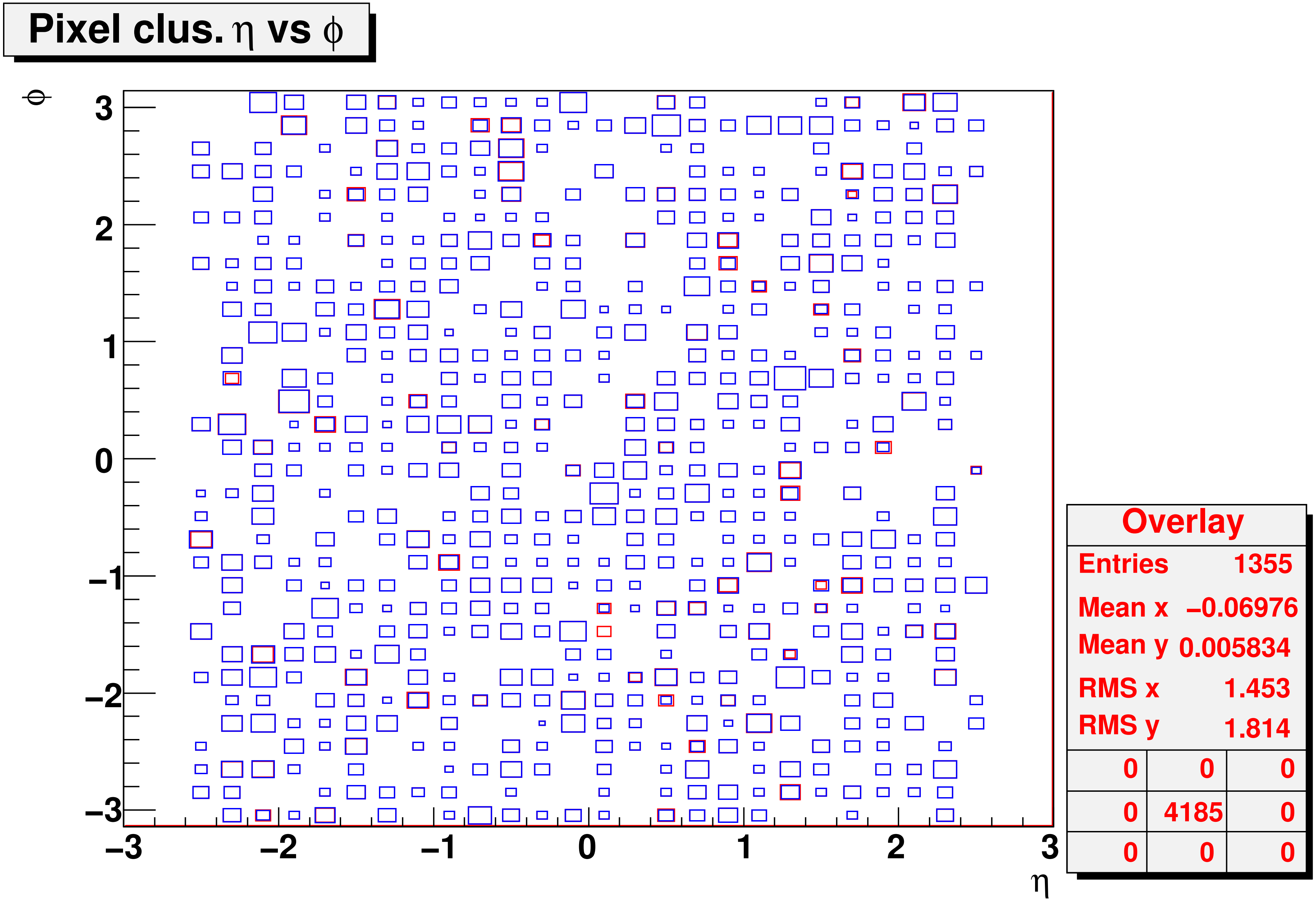

Cluster Efficiency: Pixel Barrel B–Layer
Clus. Efficiency
1.5
1
0.5
0
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1358
Mean 1.234
Mean y 0.9963
RMS 0.7099
RMS y 0.06057
Underflow 0
Overflow 0
Overlay
Entries 1368
Mean 1.231
Mean y 0.9963
RMS 0.7062
RMS y 0.06035
Underflow 0
Overflow 0


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 3642
Mean 1.106
Mean y 0.9822
RMS 0.6449
RMS y 0.1324
Underflow 0
Overflow 0
Overlay
Entries 3678
Mean 1.106
Mean y 0.9785
RMS 0.6423
RMS y 0.145
Underflow 0
Overflow 0

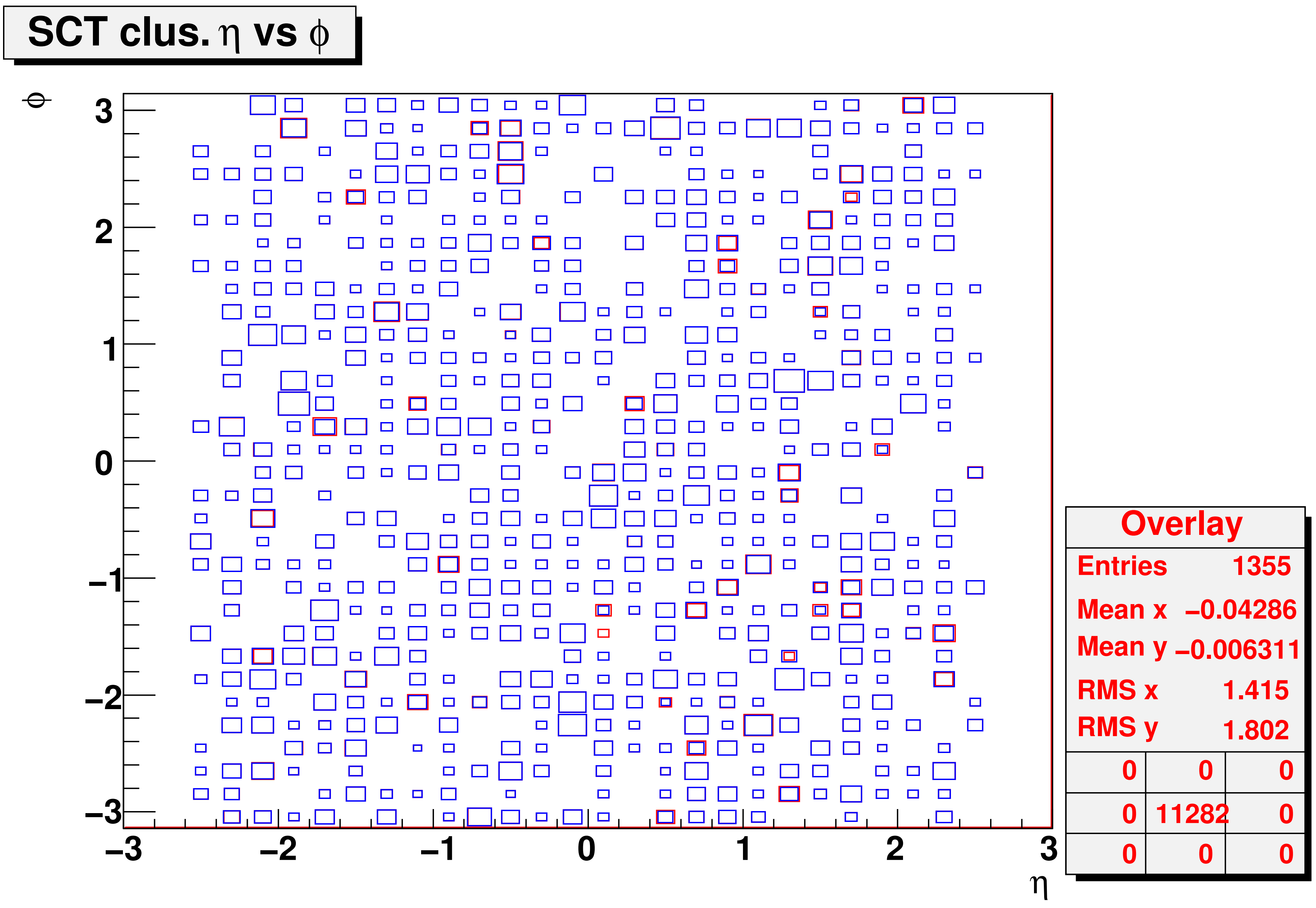


Cluster Efficiency: SCT Barrel
Clus. Efficiency
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
η
G4HitMerge
Entries 6502
Mean 0.7115
Mean y 0.9778
RMS 0.4145
RMS y 0.1472
Underflow 0
Overflow 0.7143
Overlay
Entries 6564
Mean 0.7132
Mean y 0.9782
RMS 0.4156
RMS y 0.1461
Underflow 0
Overflow 0.7143

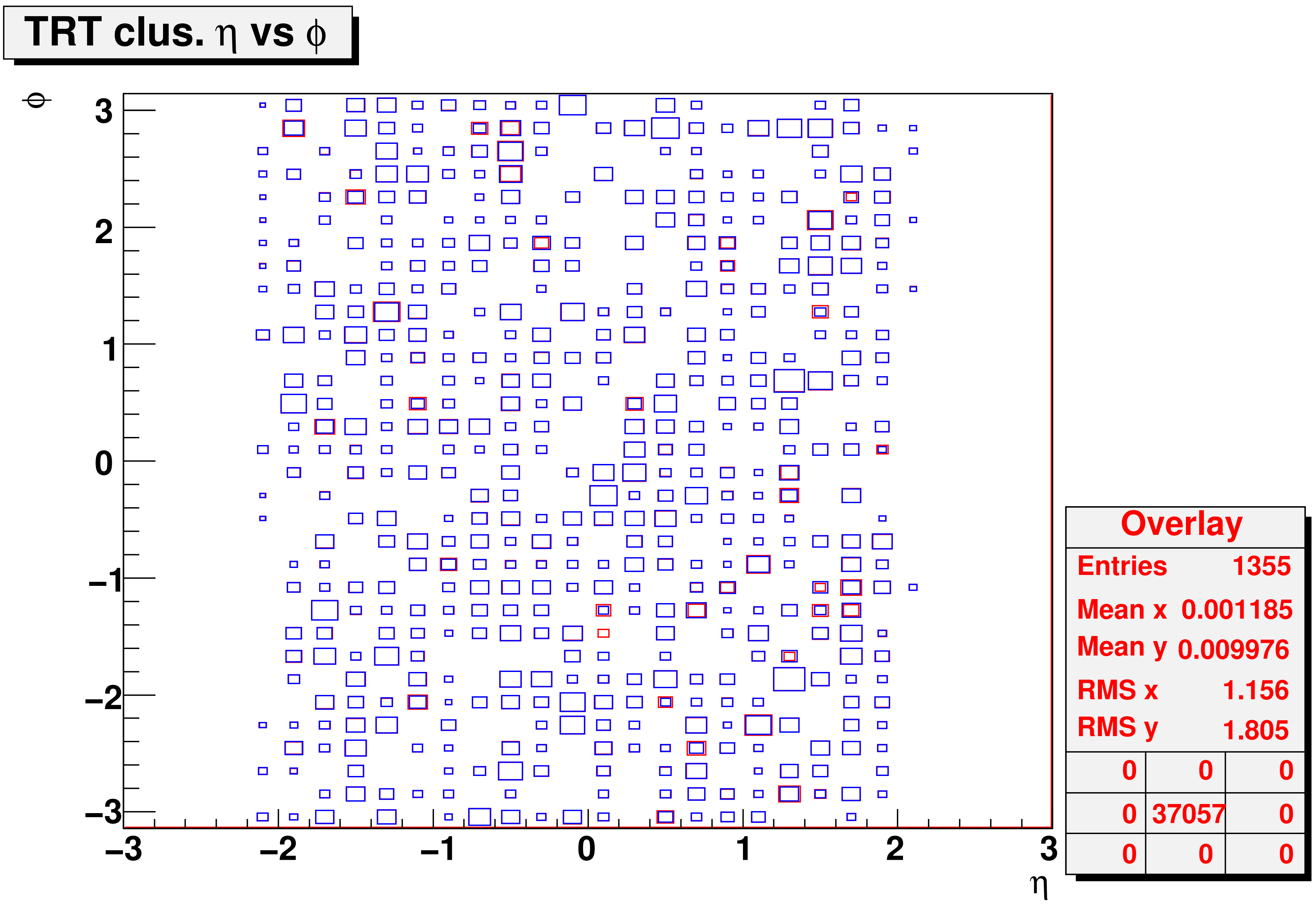

Cluster Efficiency: TRT Barrel
Hit Efficiency
1.2
1
0.8
0.6
0.4
0.2
0
0.2
0.4
0.6
0.8
1
1.2
η
G4HitMerge
Entries 16497
Mean 0.4487
Mean y 0.9974
RMS 0.2441
RMS y 0.05099
Underflow 0
Overflow 0
Overlay
Entries 16570
Mean 0.4482
Mean y 0.9968
RMS 0.244
RMS y 0.05647
Underflow 0
Overflow 0



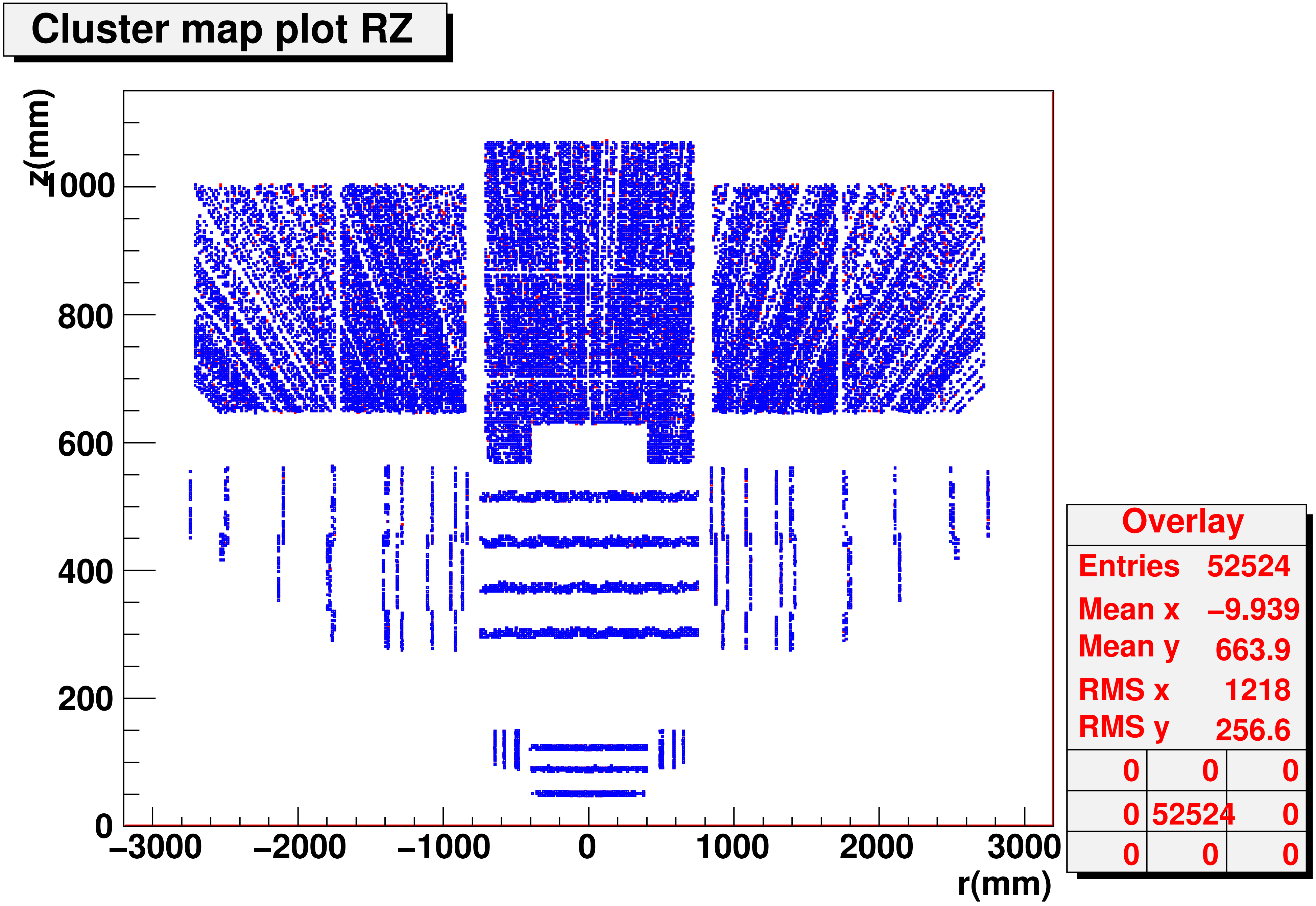
Pixel clus. η vs ϕ
ϕ
3
2
1
0
−1
−2
−3
η
Overlay
Entries 1355
Mean x −0.06976
Mean y 0.005834
RMS x 1.453
RMS y 1.814
0 0 0
0 4185 0
0 0 0

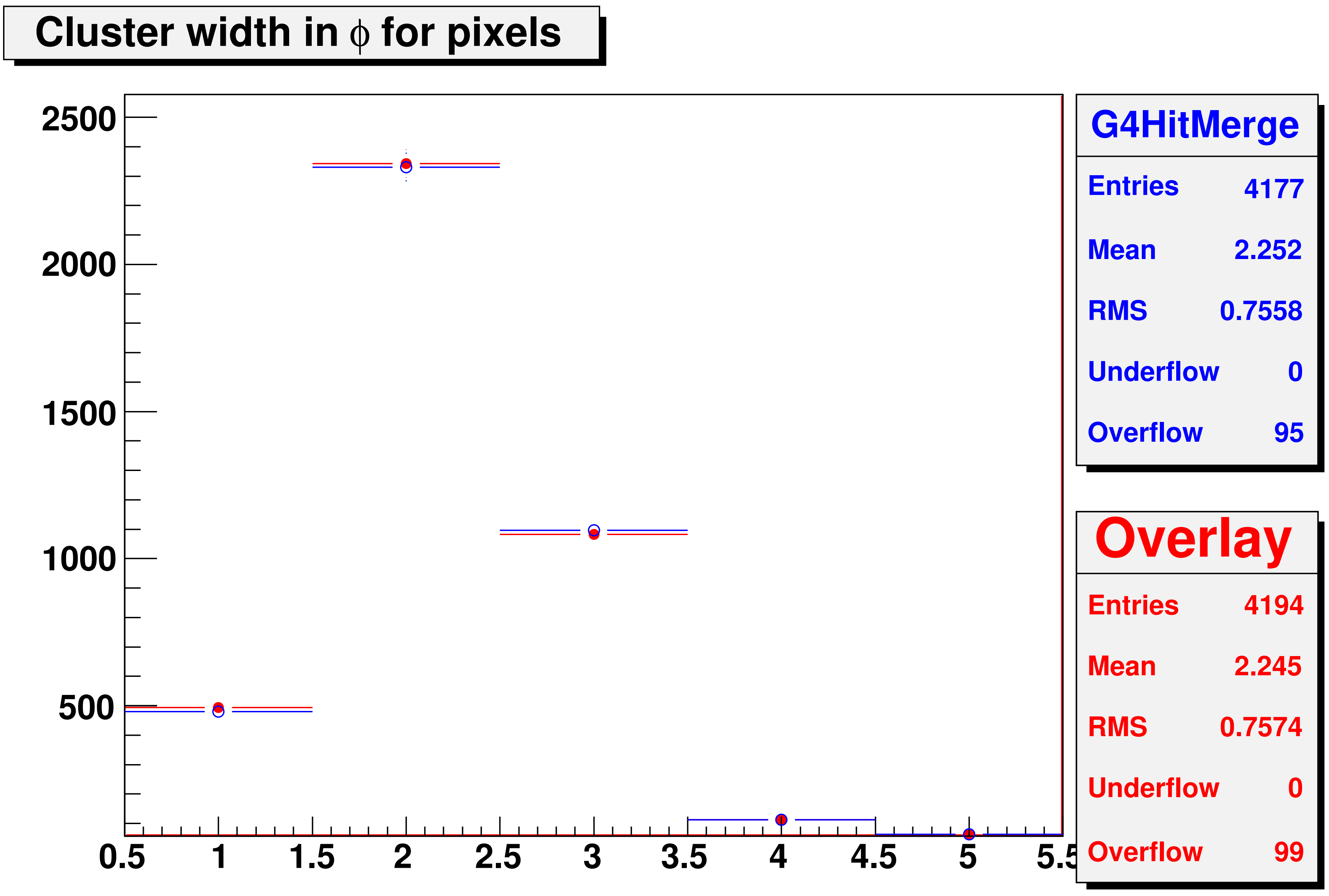


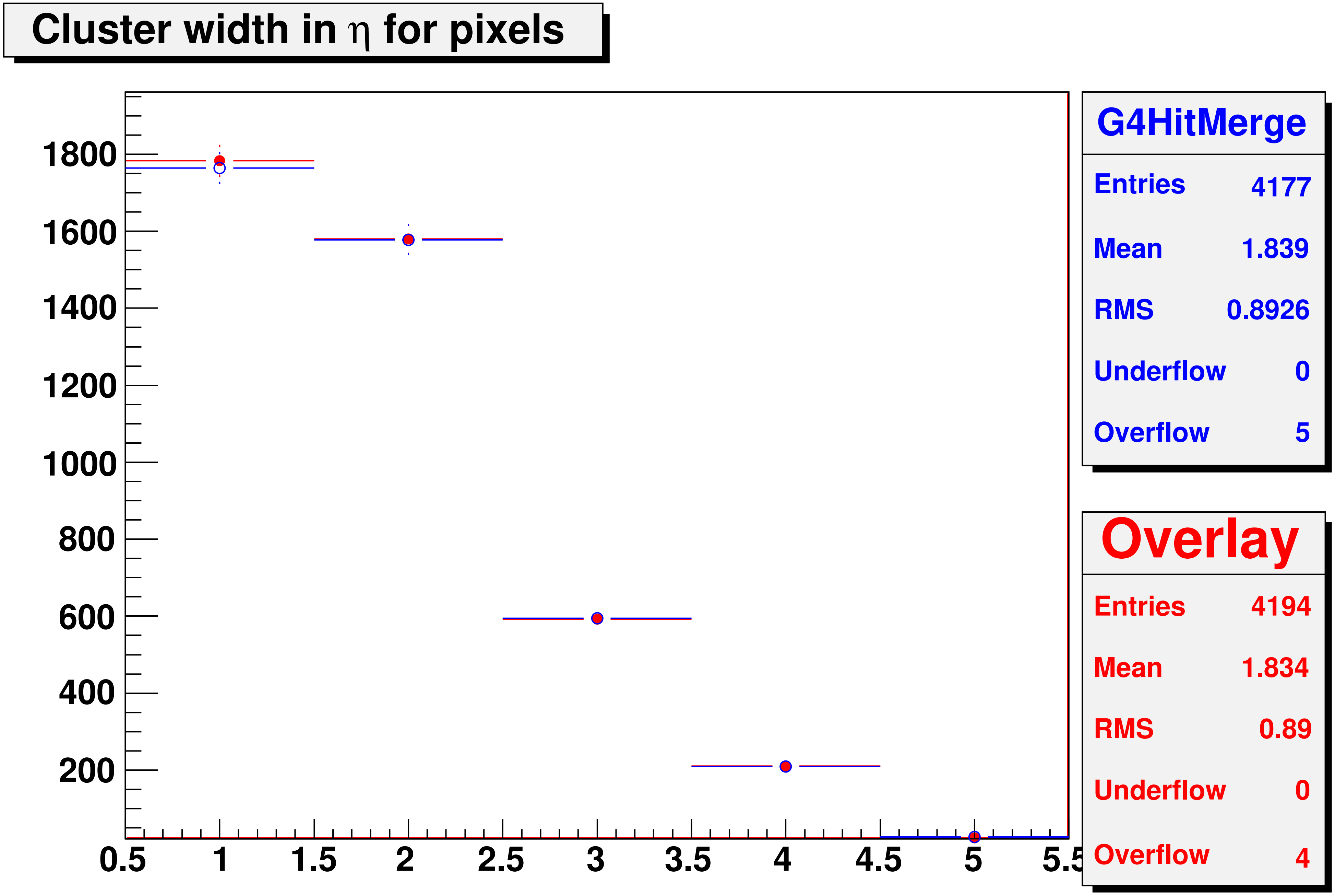
SCT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
−3
−2
−1
0
1
2
3
η
Overlay
Entries 1355
Mean x −0.04286
Mean y −0.006311
RMS x 1.415
RMS y 1.802
0 0 0
0 11282 0
0 0 0



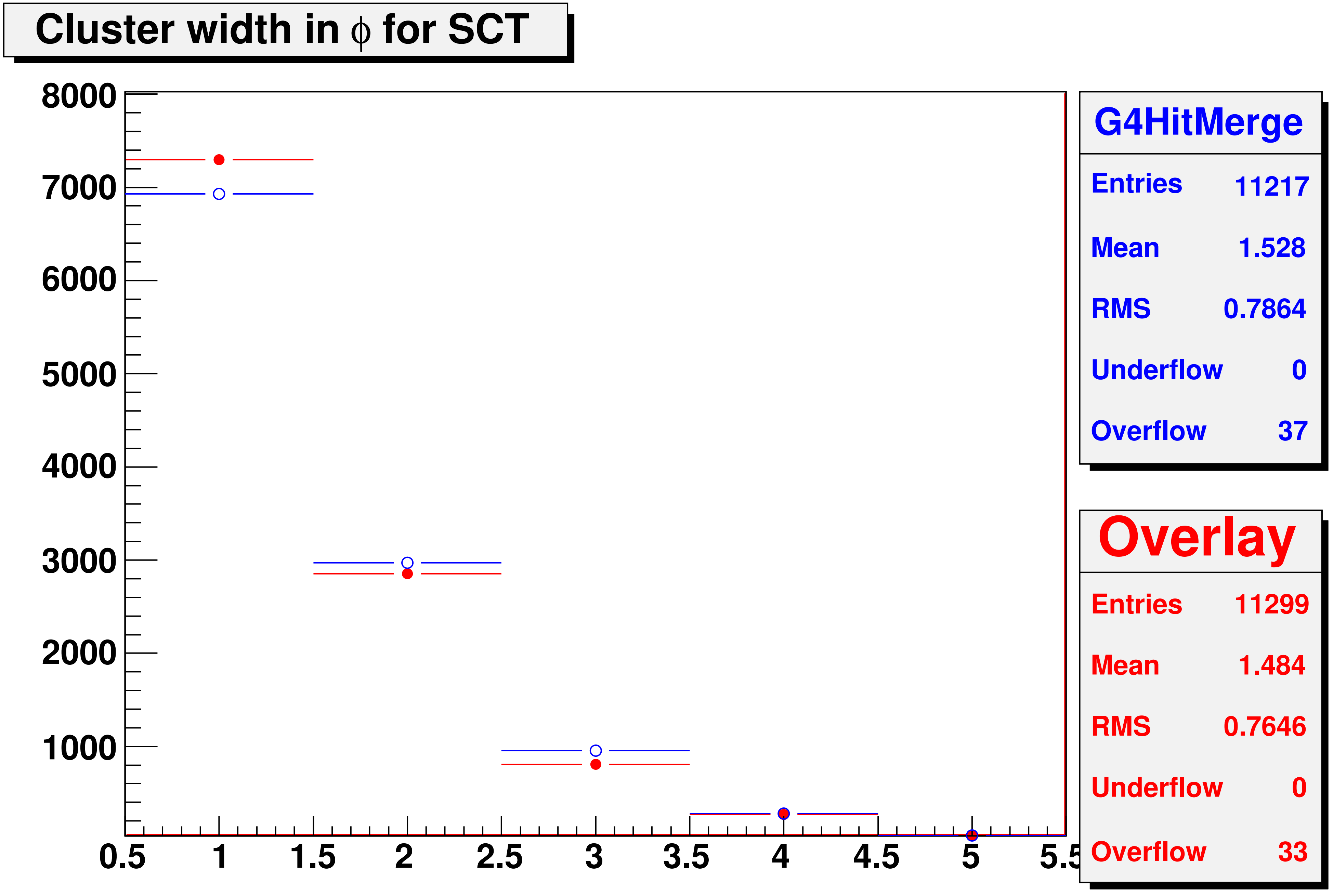
TRT clus. η vs φ
φ
3
2
1
0
−1
−2
−3
η
Overlay
Entries 1355
Mean x 0.001185
Mean y 0.009976
RMS x 1.156
RMS y 1.805
0 0 0
0 37057 0
0 0 0


Cluster map plot RZ
z(mm)
1000
800
600
400
200
0
−3000
−2000
−1000
0
1000
2000
3000
r(mm)
Overlay
Entries 52524
Mean x −9.939
Mean y 663.9
RMS x 1218
RMS y 256.6
0 0 0
0 52524 0
0 0 0

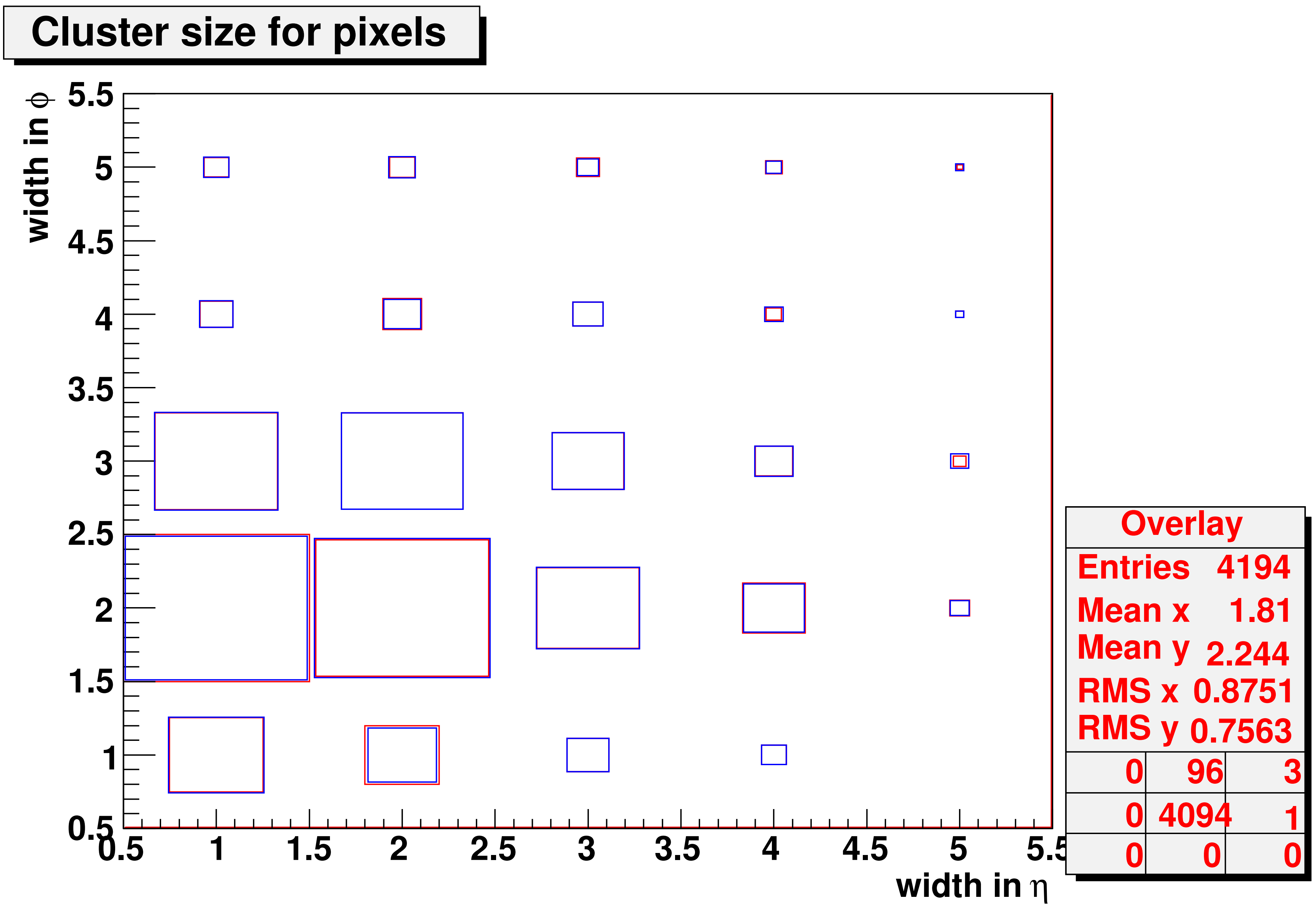

Cluster width in ϕ for pixels
2500
2000
1500
1000
500
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 4177
Mean 2.252
RMS 0.7558
Underflow 0
Overflow 95
Overlay
Entries 4194
Mean 2.245
RMS 0.7574
Underflow 0
Overflow 99



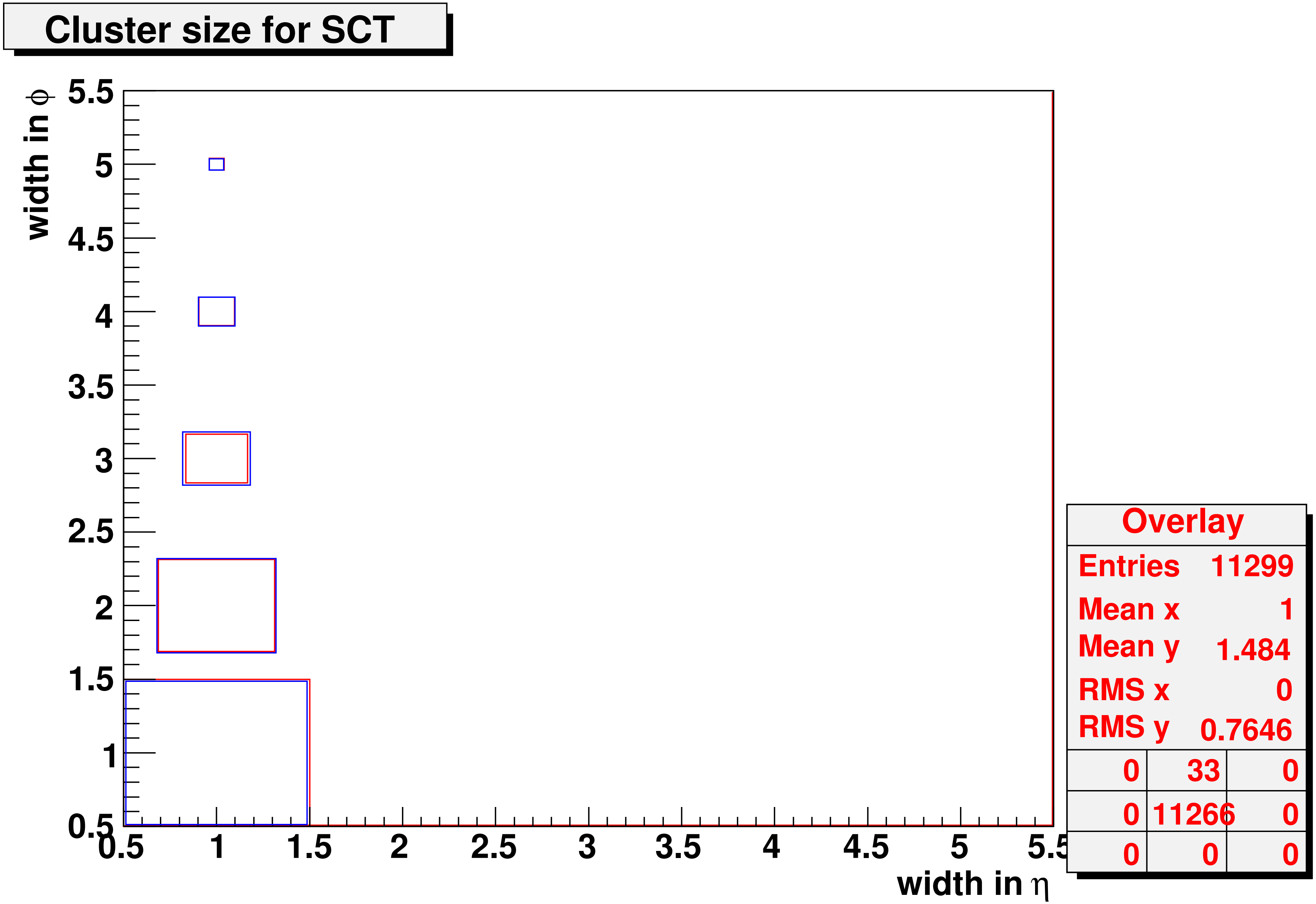
Cluster width in η for pixels
G4HitMerge
Entries 4177
Mean 1.839
RMS 0.8926
Underflow 0
Overflow 5
Overlay
Entries 4194
Mean 1.834
RMS 0.89
Underflow 0
Overflow 4
1800
1600
1400
1200
1000
800
600
400
200
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5

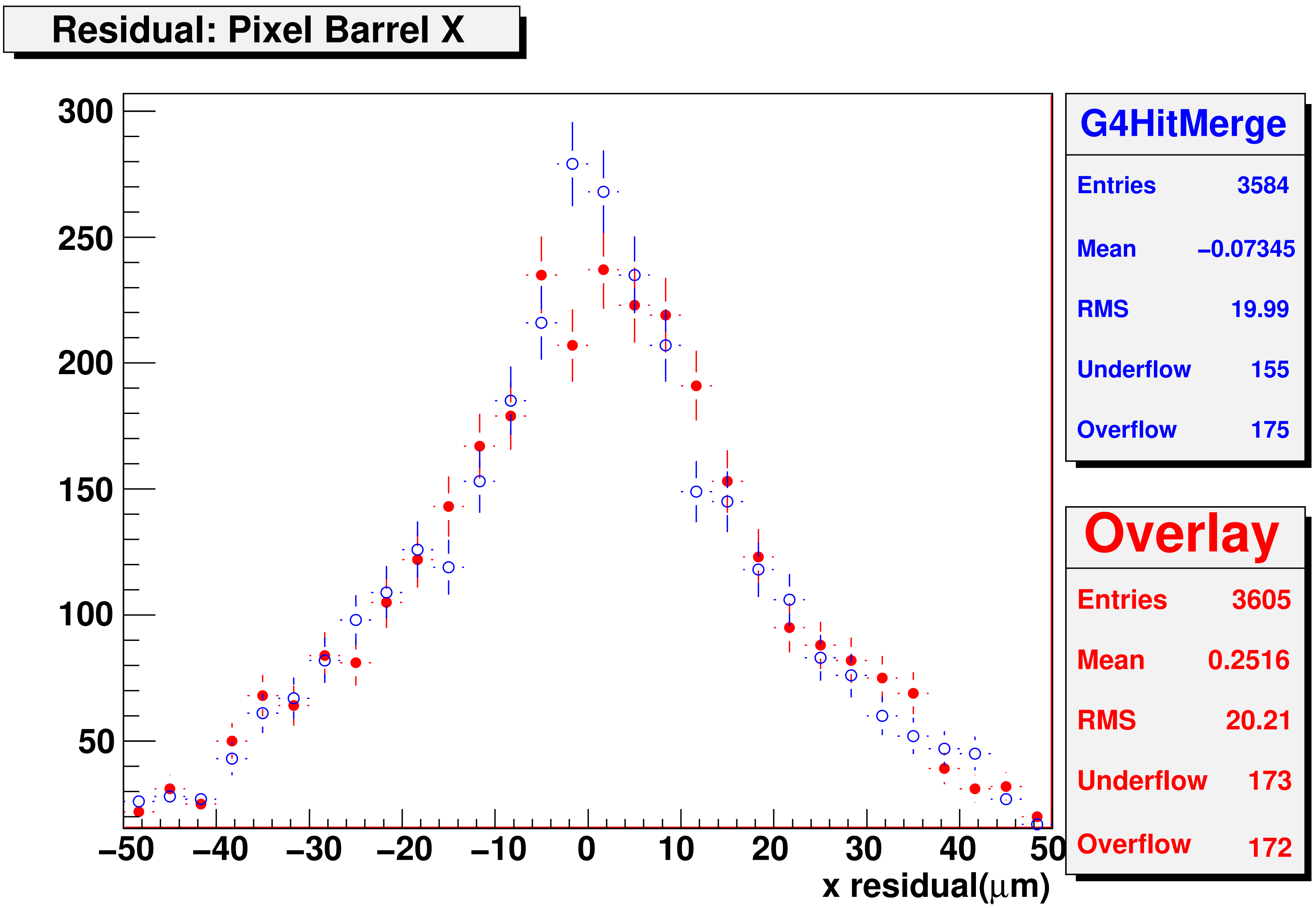


Cluster width in ϕ for SCT
8000
7000
6000
5000
4000
3000
2000
1000
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
G4HitMerge
Entries 11217
Mean 1.528
RMS 0.7864
Underflow 0
Overflow 37
Overlay
Entries 11299
Mean 1.484
RMS 0.7646
Underflow 0
Overflow 33

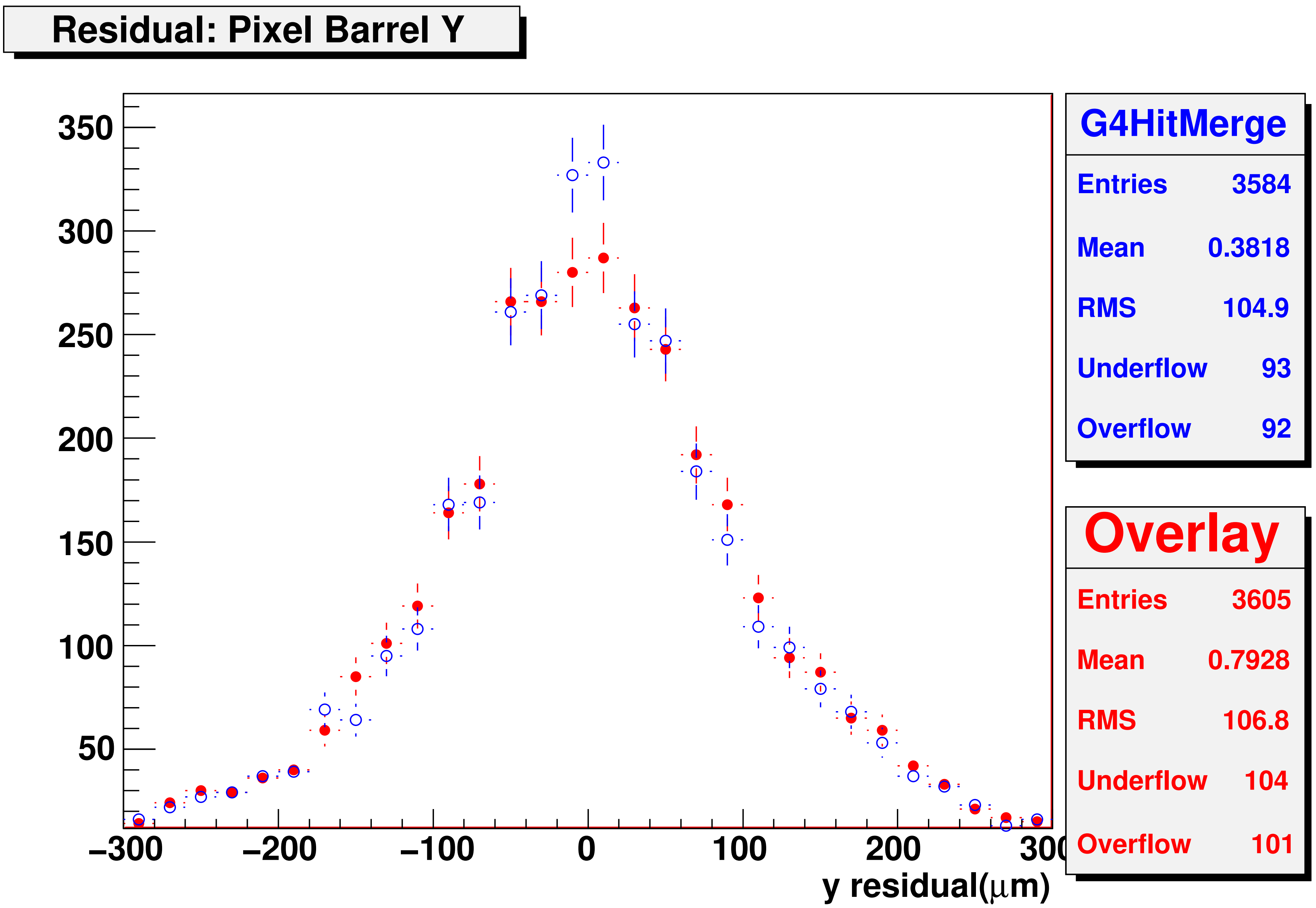


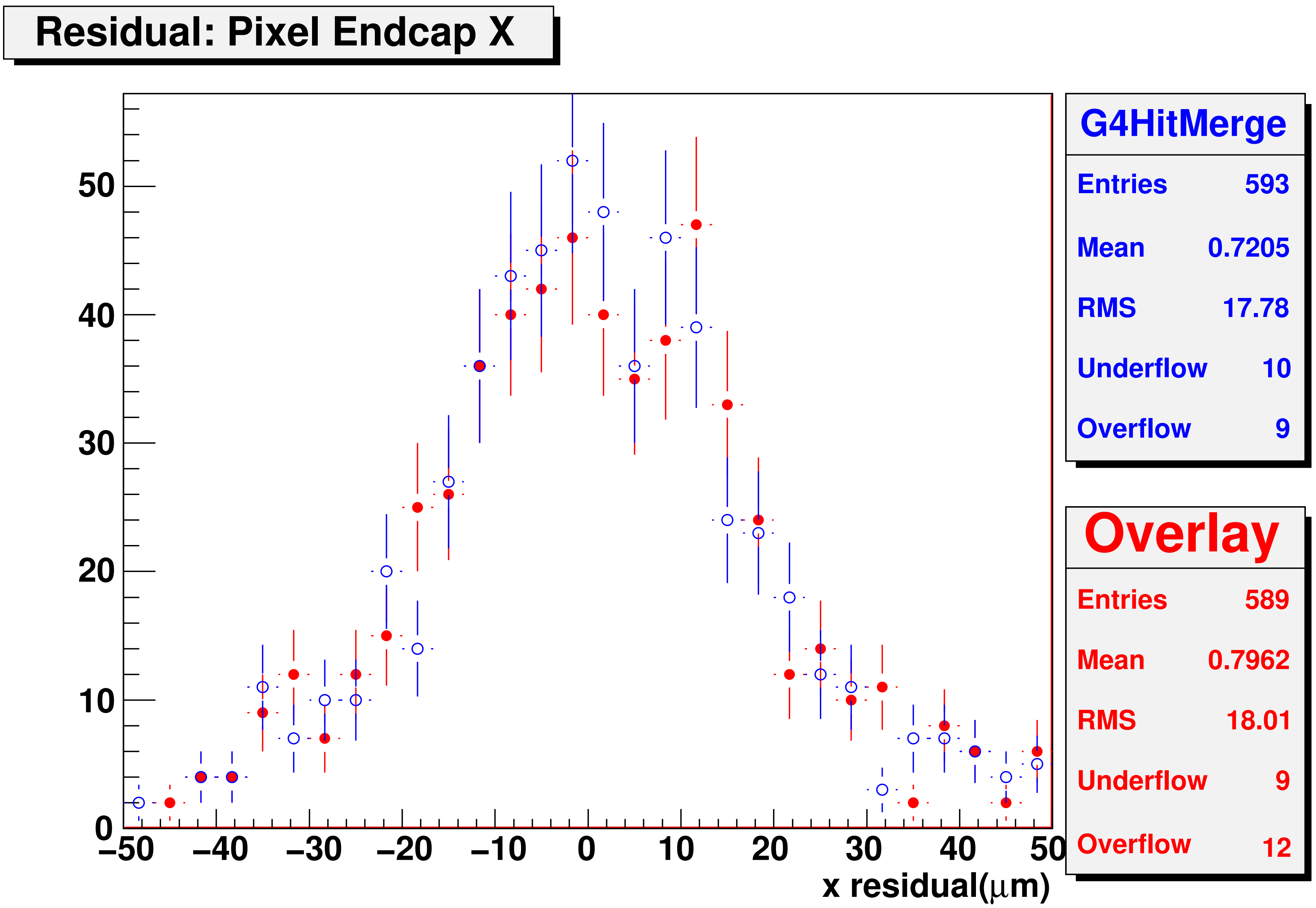
Cluster size for pixels
width in ϕ
width in η
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
5.5
Overlay
Entries 4194
Mean x 1.81
Mean y 2.244
RMS x 0.8751
RMS y 0.7563
0 96 3
0 4094 1
0 0 0


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 11299
Mean x 1
Mean y 1.484
RMS x 0
RMS y 0.7646
0 33 0
0 11266 0
0 0 0

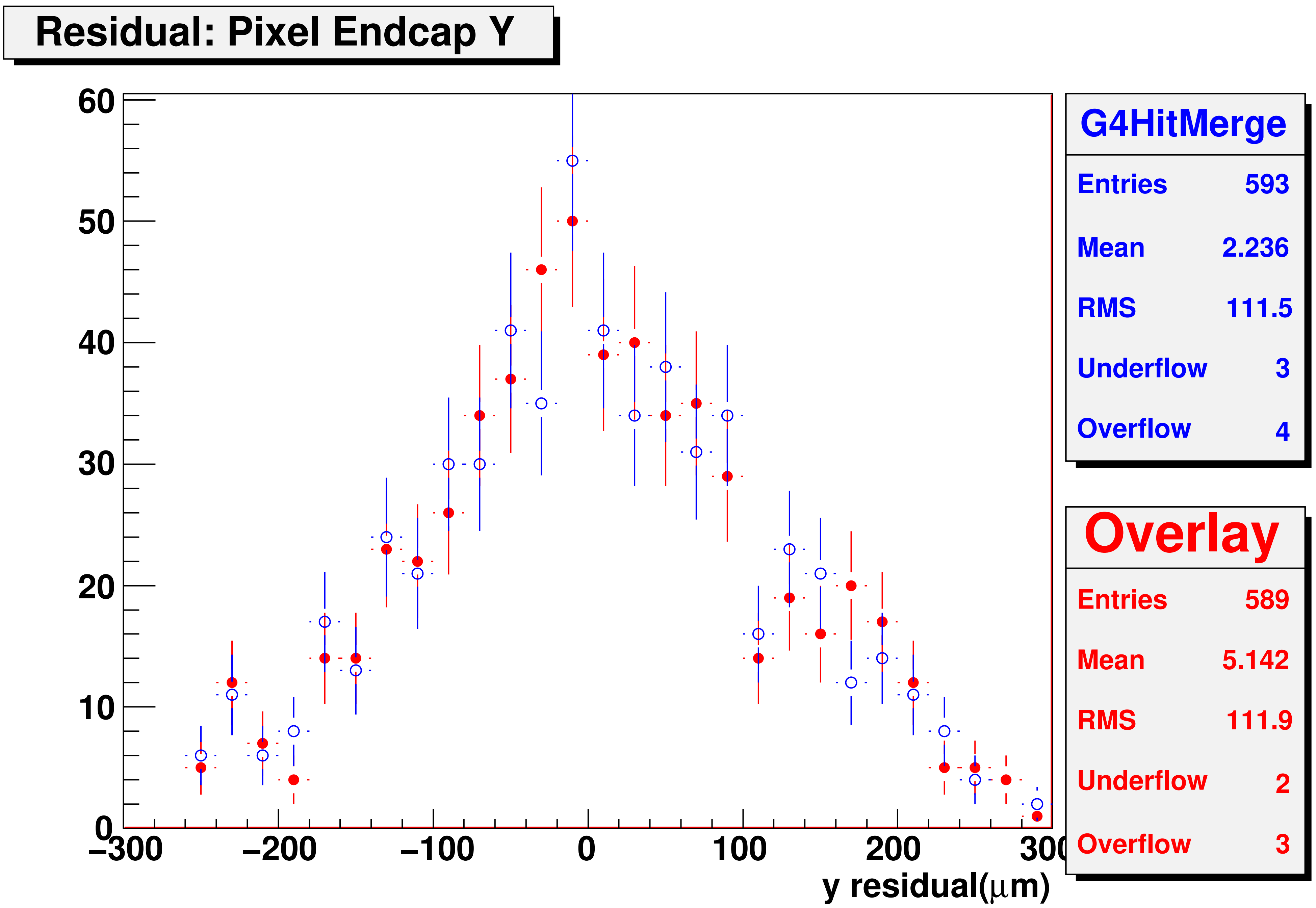


Residual: Pixel Barrel X
300
250
200
150
100
50
–50
–40
–30
–20
–10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 3584
Mean –0.07345
RMS 19.99
Underflow 155
Overflow 175
Overlay
Entries 3605
Mean 0.2516
RMS 20.21
Underflow 173
Overflow 172

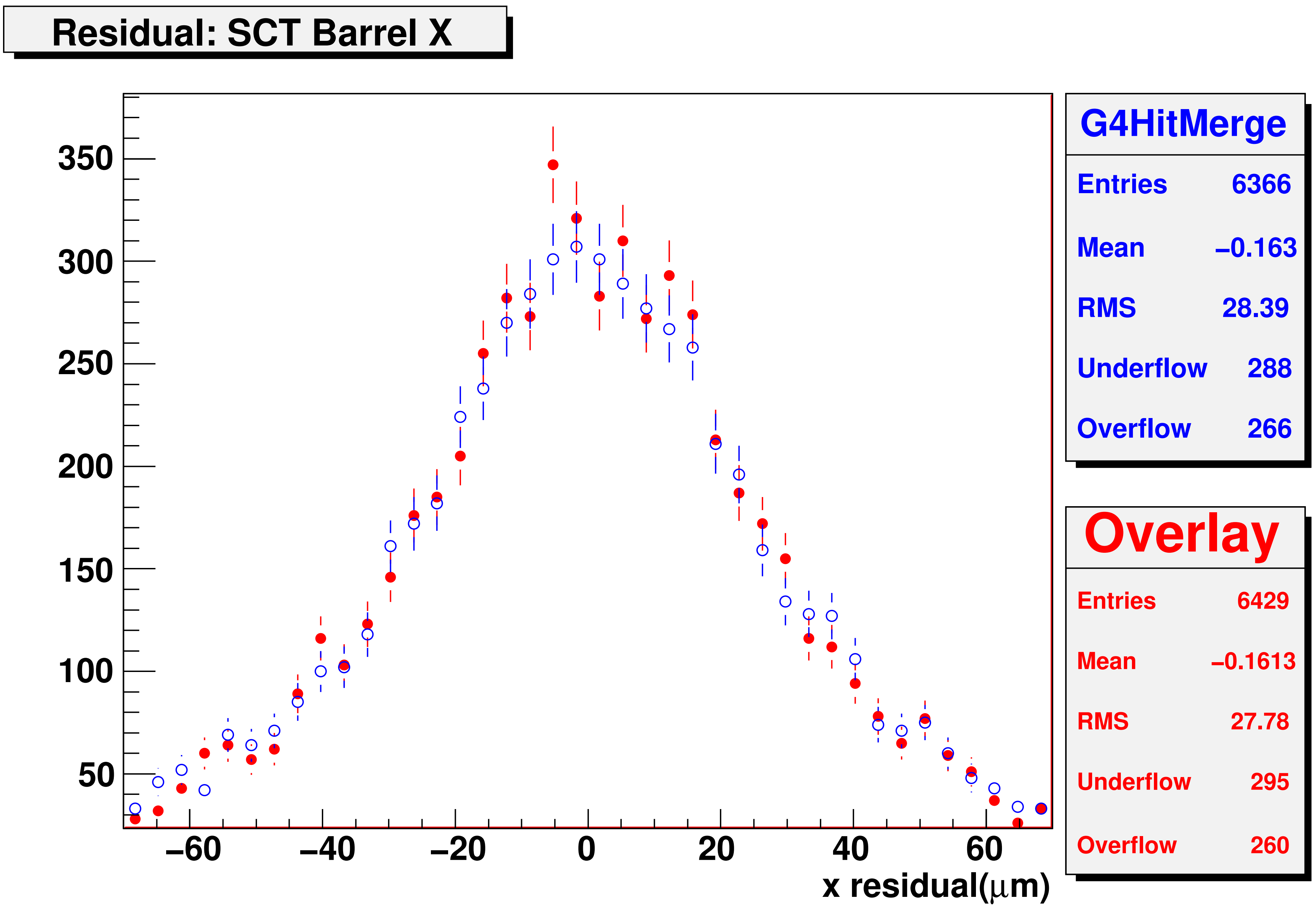

Residual: Pixel Barrel Y
G4HitMerge
Entries 3584
Mean 0.3818
RMS 104.9
Underflow 93
Overflow 92
Overlay
Entries 3605
Mean 0.7928
RMS 106.8
Underflow 104
Overflow 101
y residual(μm)
350
300
250
200
150
100
50
−300
−200
−100
0
100
200
300

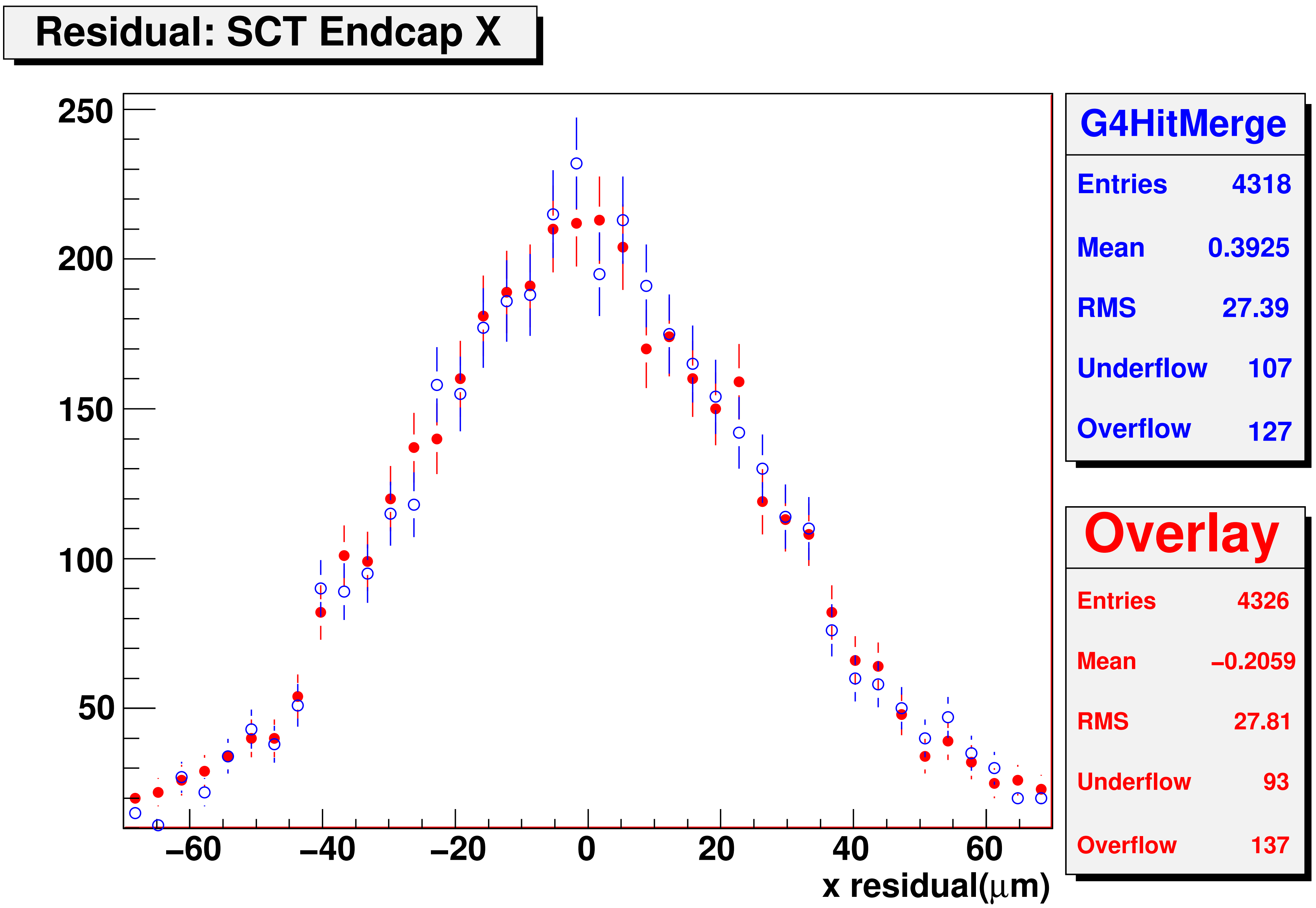


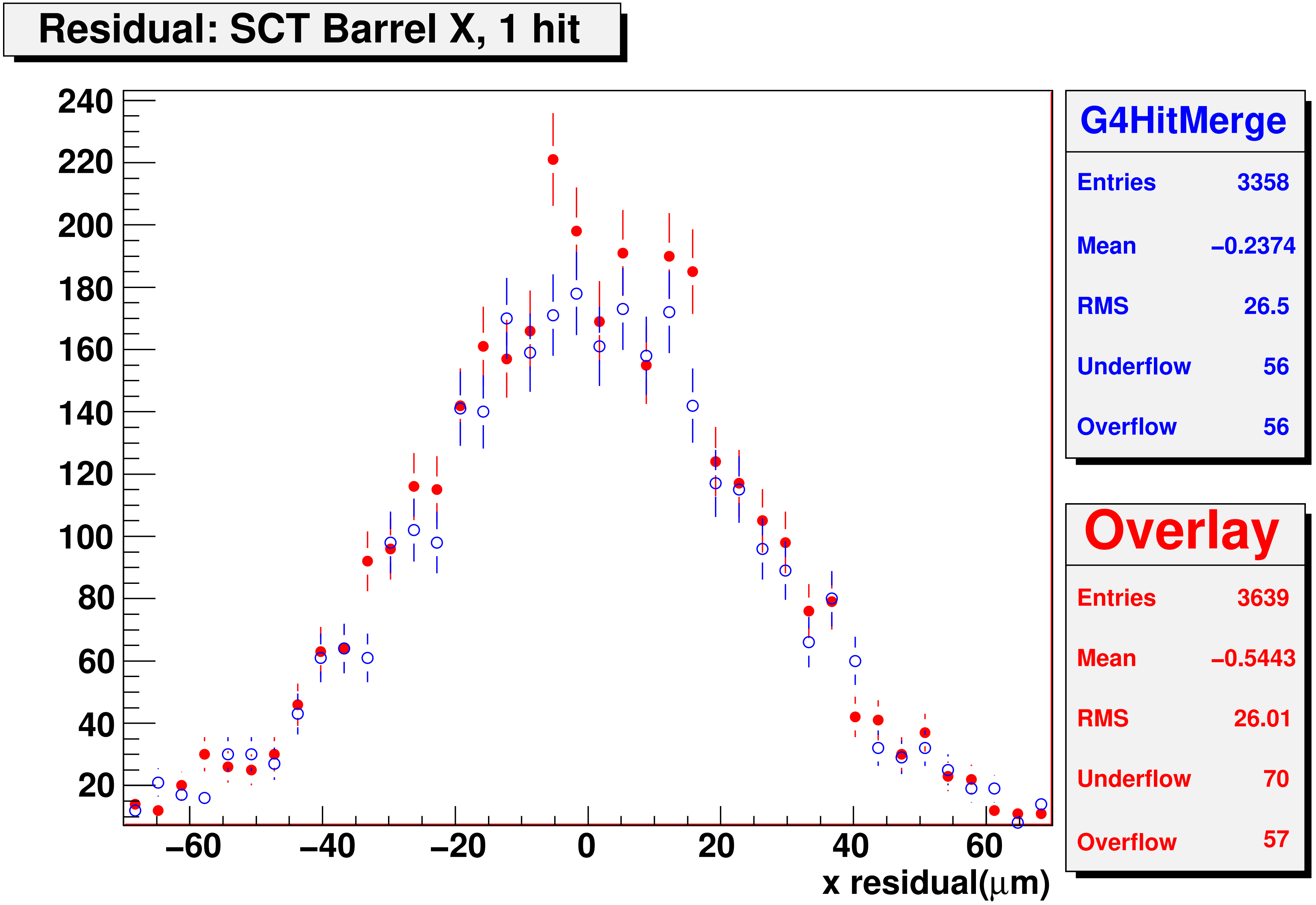
Residual: Pixel Endcap X
G4HitMerge
Entries 593
Mean 0.7205
RMS 17.78
Underflow 10
Overflow 9
Overlay
Entries 589
Mean 0.7962
RMS 18.01
Underflow 9
Overflow 12
0
10
20
30
40
50
−50
−40
−30
−20
−10
0
10
20
30
40
50
x residual(μm)



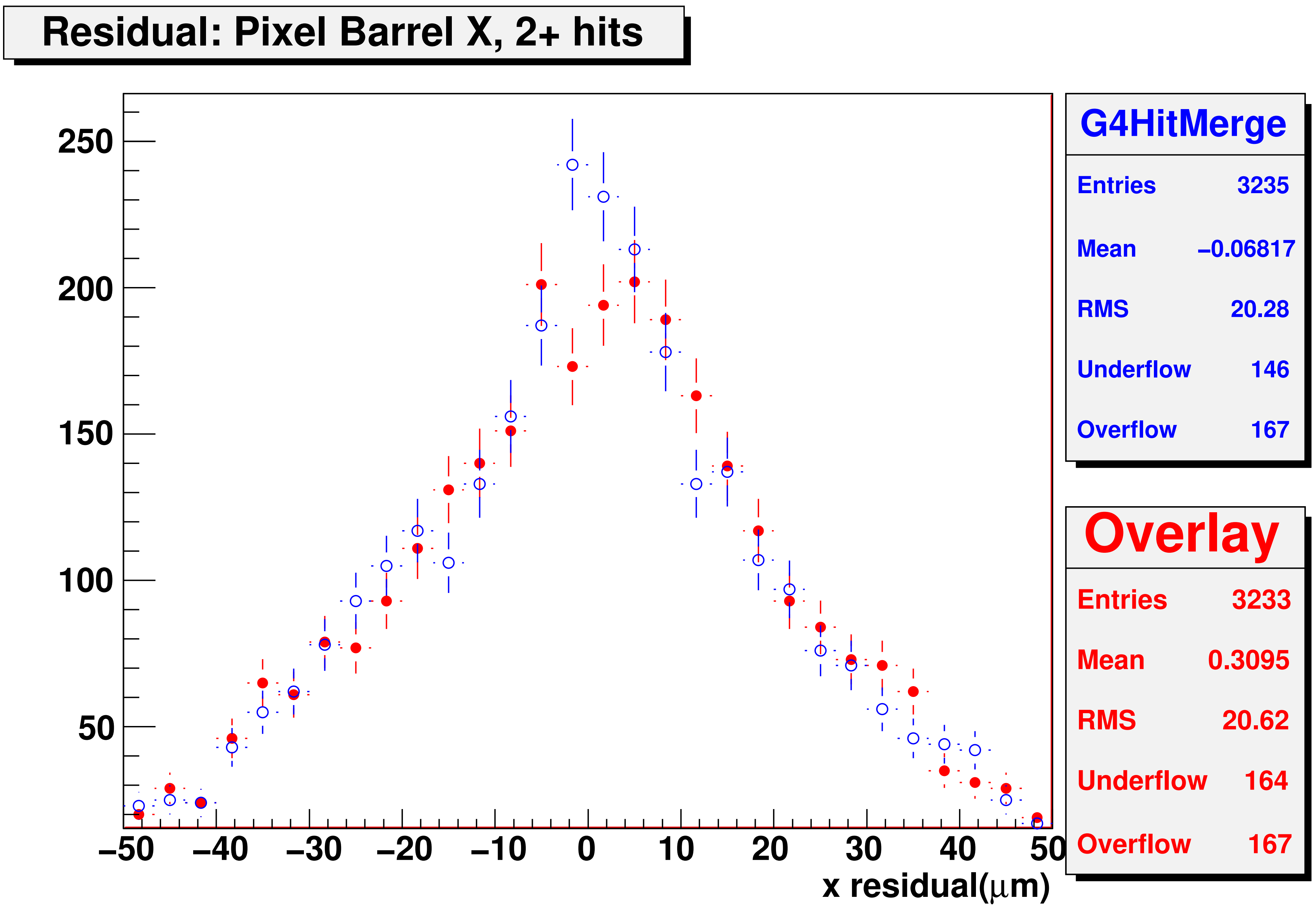
Residual: Pixel Endcap Y
60
50
40
30
20
10
0
−300
−200
−100
0
100
200
300
y residual(μm)
G4HitMerge
Entries 593
Mean 2.236
RMS 111.5
Underflow 3
Overflow 4
Overlay
Entries 589
Mean 5.142
RMS 111.9
Underflow 2
Overflow 3


Residual: SCT Barrel X
G4HitMerge
Entries 6366
Mean −0.163
RMS 28.39
Underflow 288
Overflow 266
Overlay
Entries 6429
Mean −0.1613
RMS 27.78
Underflow 295
Overflow 260
350
300
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)

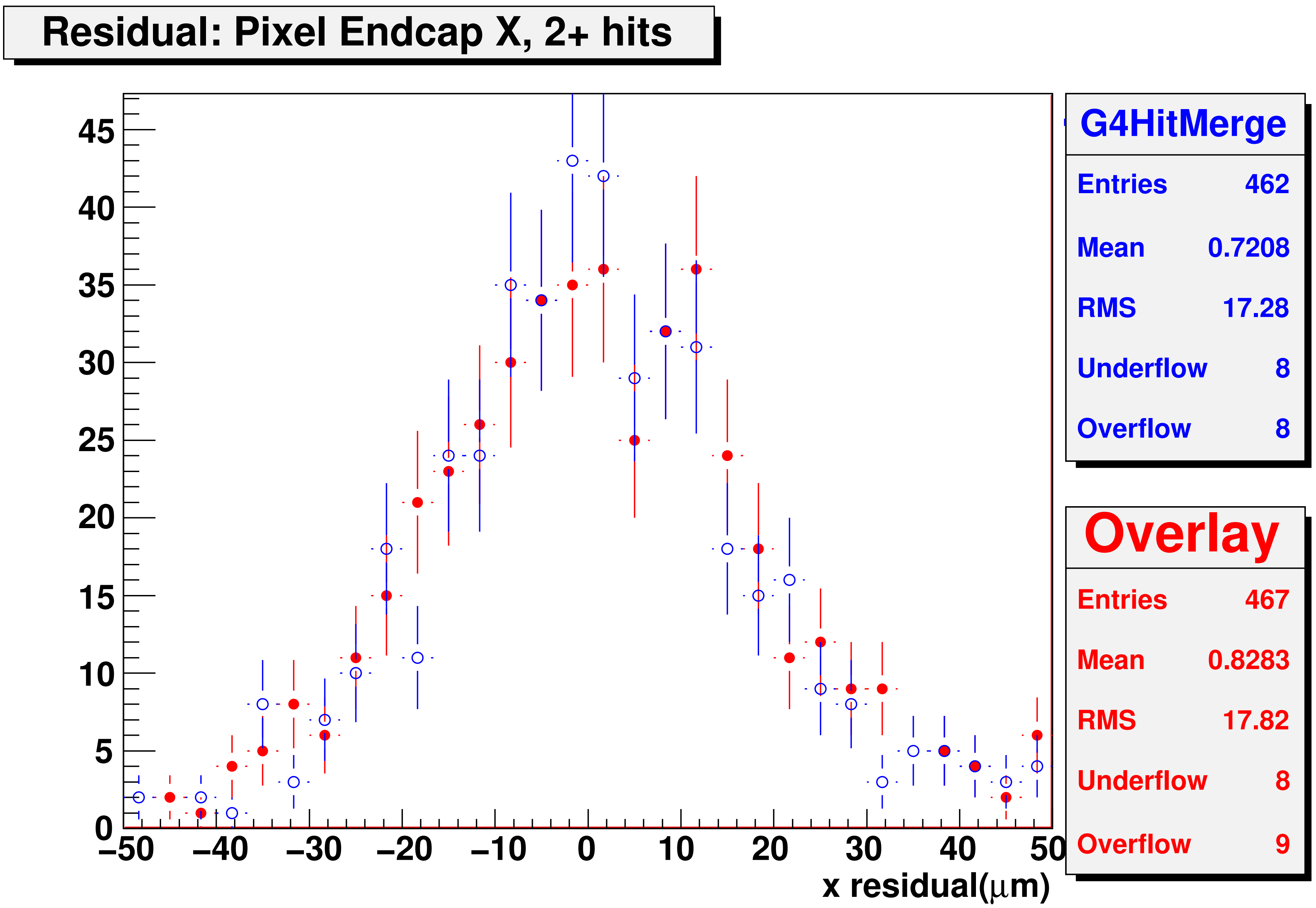

Residual: SCT Endcap X
250
200
150
100
50
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 4318
Mean 0.3925
RMS 27.39
Underflow 107
Overflow 127
Overlay
Entries 4326
Mean −0.2059
RMS 27.81
Underflow 93
Overflow 137



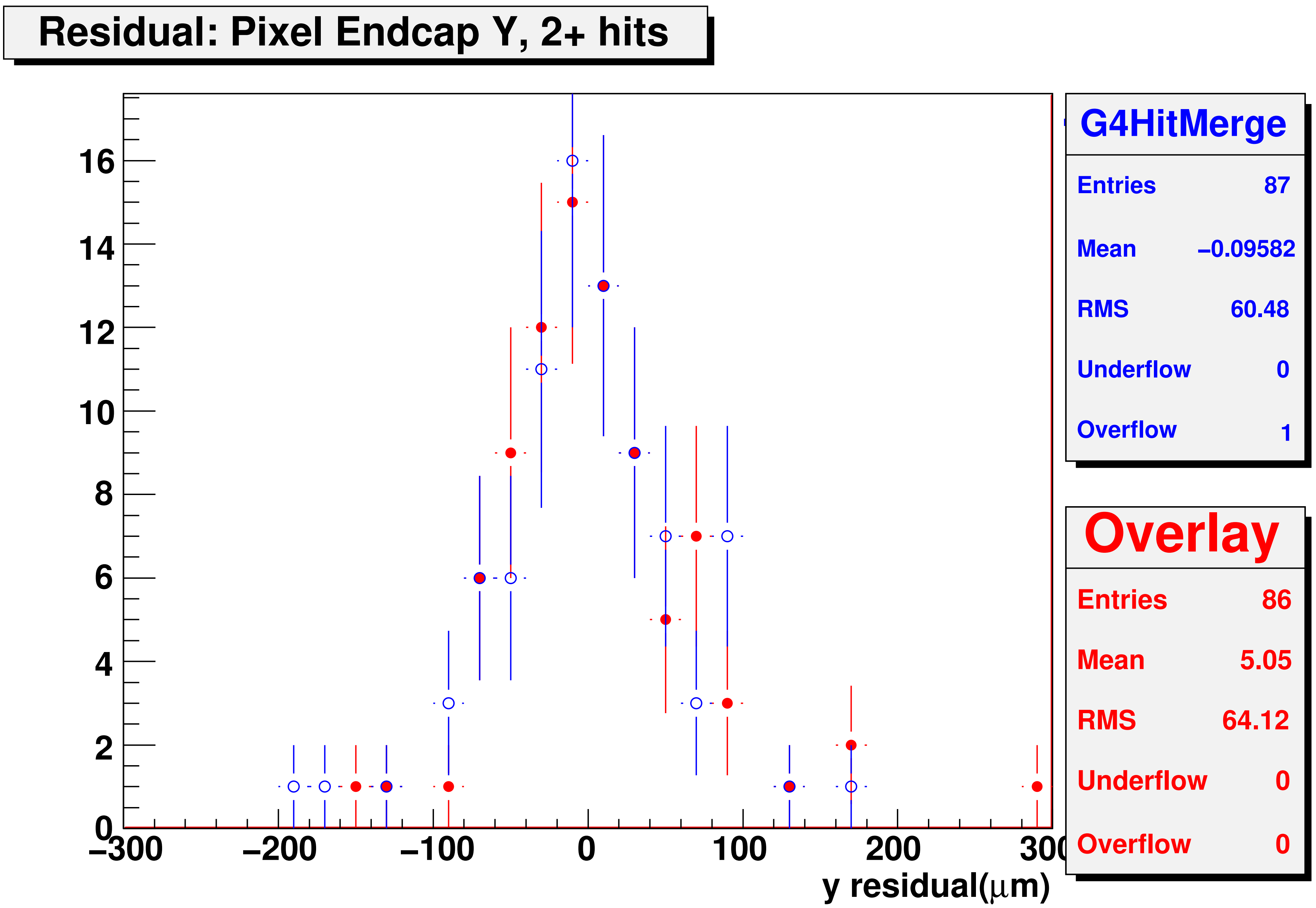
Residual: SCT Barrel X, 1 hit
240
220
200
180
160
140
120
100
80
60
40
20
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 3358
Mean −0.2374
RMS 26.5
Underflow 56
Overflow 56
Overlay
Entries 3639
Mean −0.5443
RMS 26.01
Underflow 70
Overflow 57

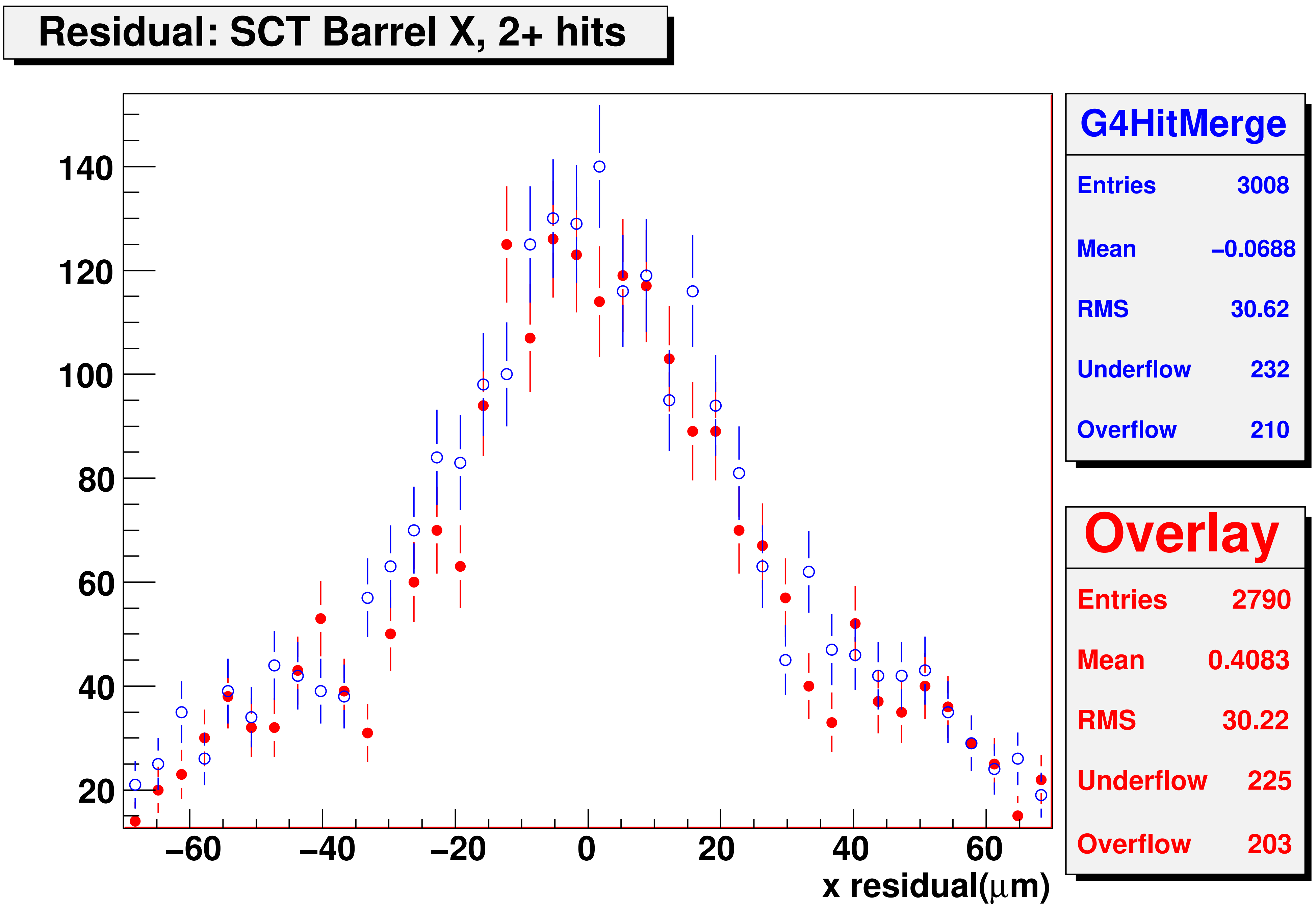


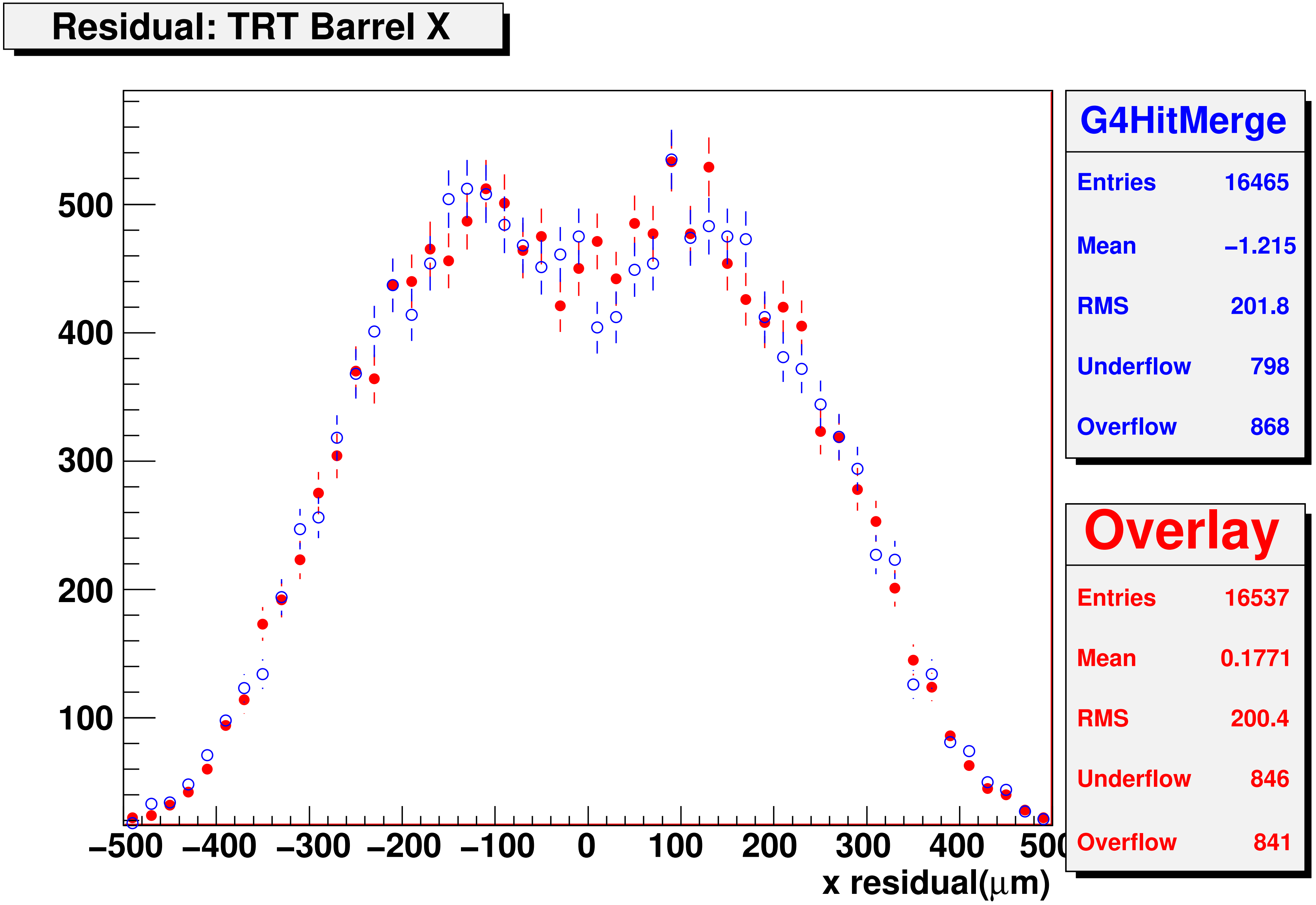
Residual: Pixel Barrel X, 2+ hits
250
200
150
100
50
–50
–40
–30
–20
–10
0
10
20
30
40
50
x residual(μm)
G4HitMerge
Entries 3235
Mean –0.06817
RMS 20.28
Underflow 146
Overflow 167
Overlay
Entries 3233
Mean 0.3095
RMS 20.62
Underflow 164
Overflow 167



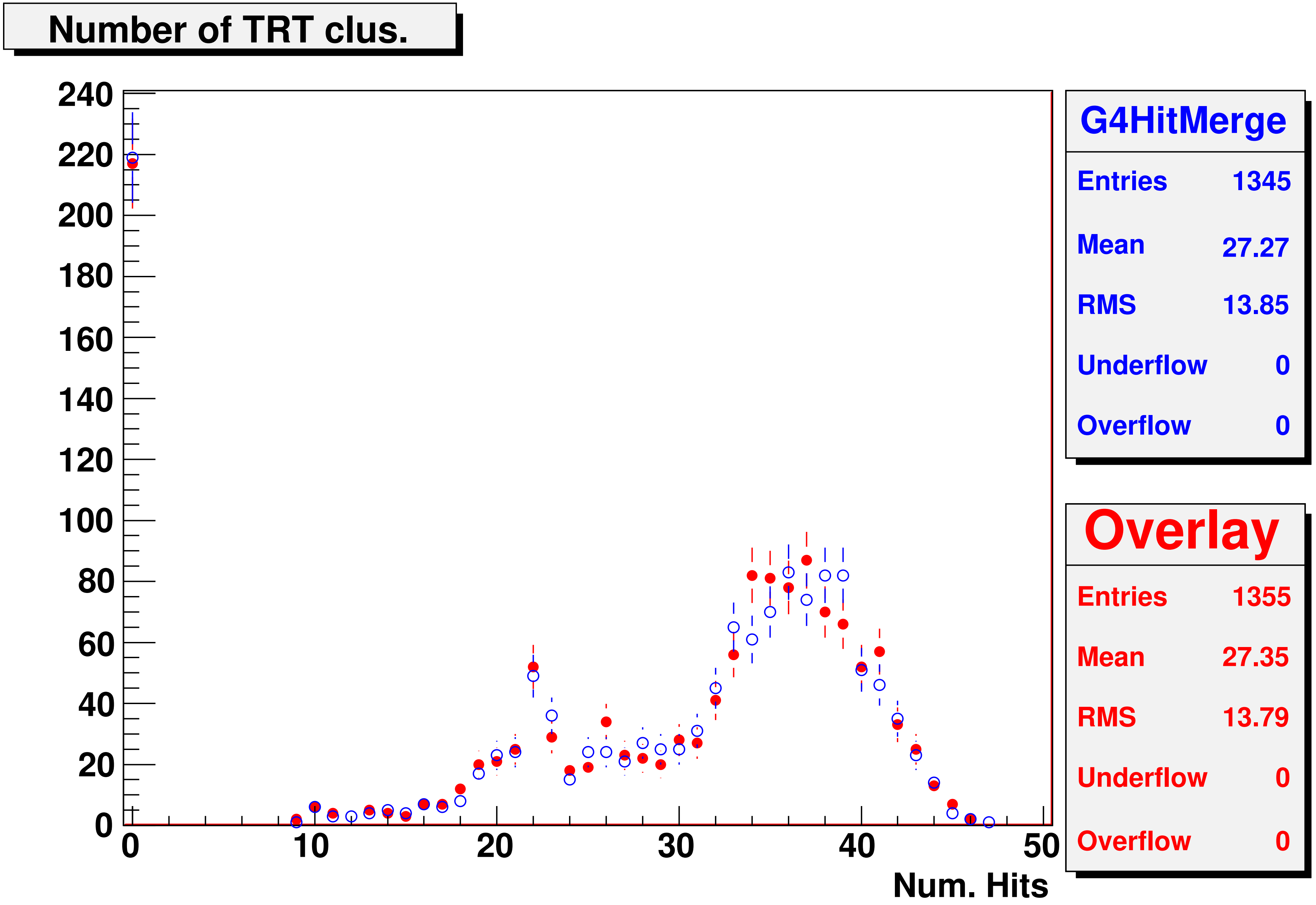
Residual: Pixel Endcap X, 2+ hits
G4HitMerge
Entries 462
Mean 0.7208
RMS 17.28
Underflow 8
Overflow 8
Overlay
Entries 467
Mean 0.8283
RMS 17.82
Underflow 8
Overflow 9
x residual(μm)
0
5
10
15
20
25
30
35
40
45
−50
−40
−30
−20
−10
0
10
20
30
40
50


Residual: Pixel Endcap Y, 2+ hits
G4HitMerge
Entries 87
Mean −0.09582
RMS 60.48
Underflow 0
Overflow 1
Overlay
Entries 86
Mean 5.05
RMS 64.12
Underflow 0
Overflow 0
y residual(μm)
0
2
4
6
8
10
12
14
16
−300
−200
−100
0
100
200
300

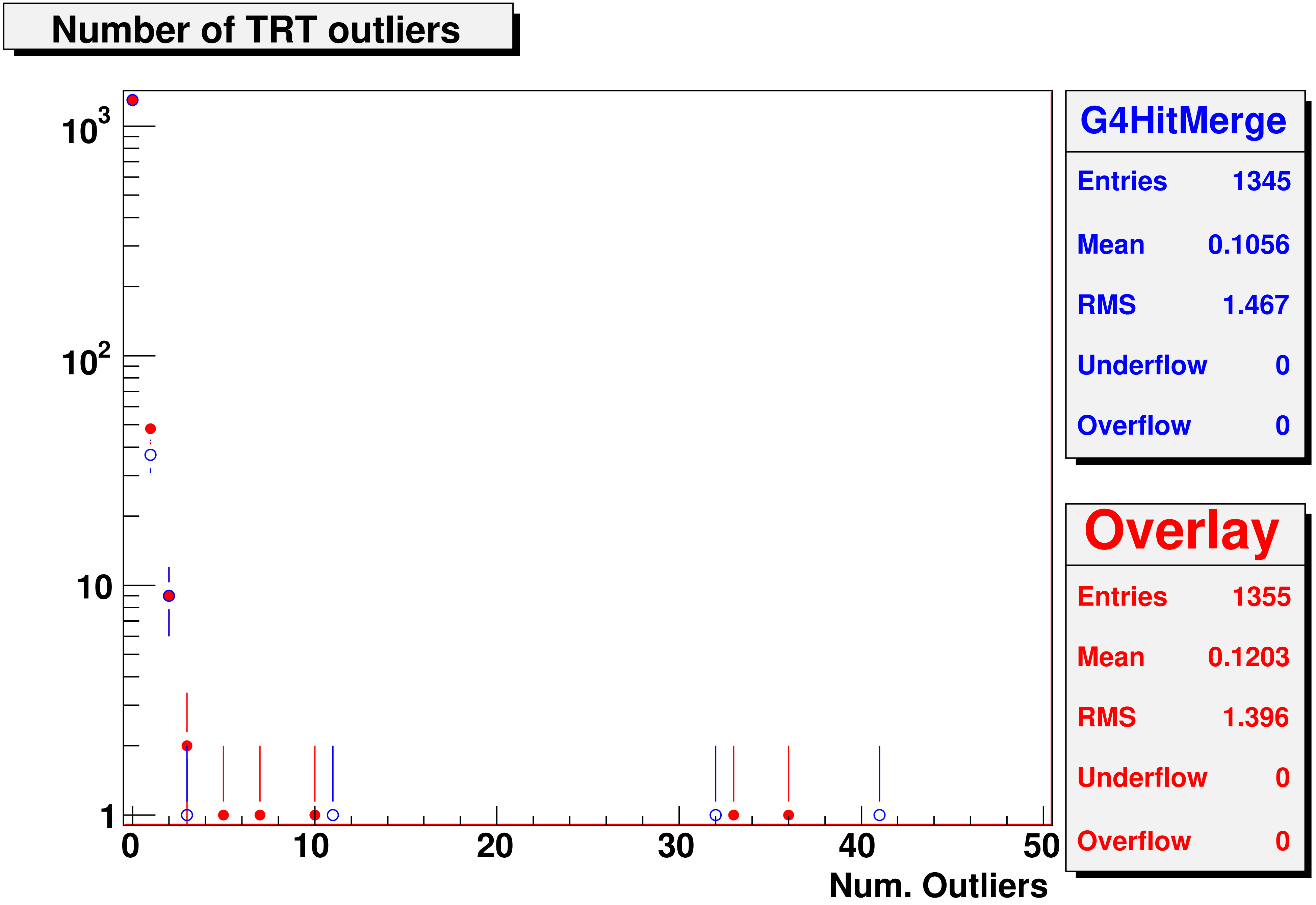

Residual: SCT Barrel X, 2+ hits
140
120
100
80
60
40
20
−60
−40
−20
0
20
40
60
x residual(μm)
G4HitMerge
Entries 3008
Mean −0.0688
RMS 30.62
Underflow 232
Overflow 210
Overlay
Entries 2790
Mean 0.4083
RMS 30.22
Underflow 225
Overflow 203



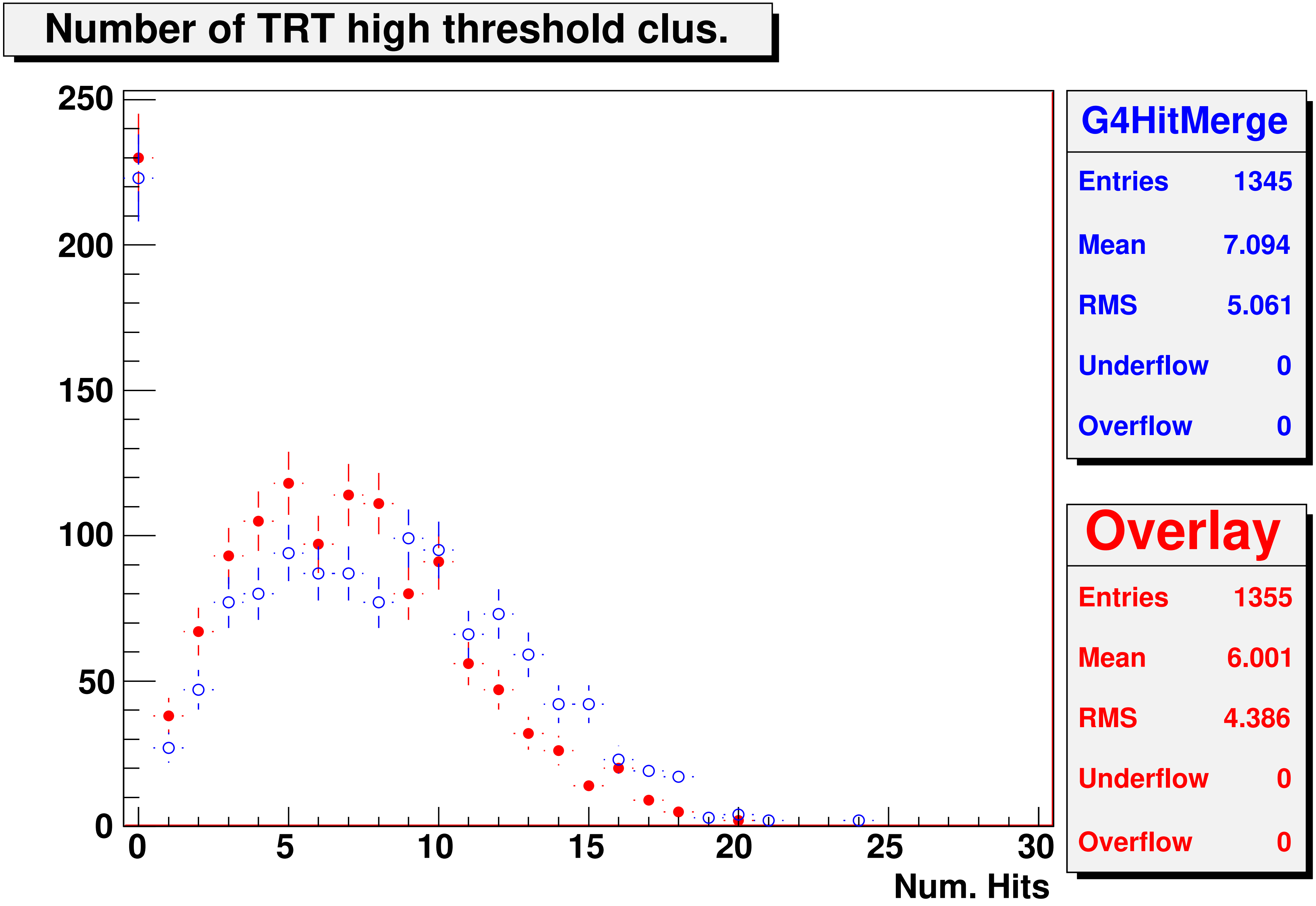
Residual: TRT Barrel X
G4HitMerge
Entries 16465
Mean −1.215
RMS 201.8
Underflow 798
Overflow 868
Overlay
Entries 16537
Mean 0.1771
RMS 200.4
Underflow 846
Overflow 841
500
400
300
200
100
−500 −400 −300 −200 −100 0 100 200 300 400 500
x residual(μm)

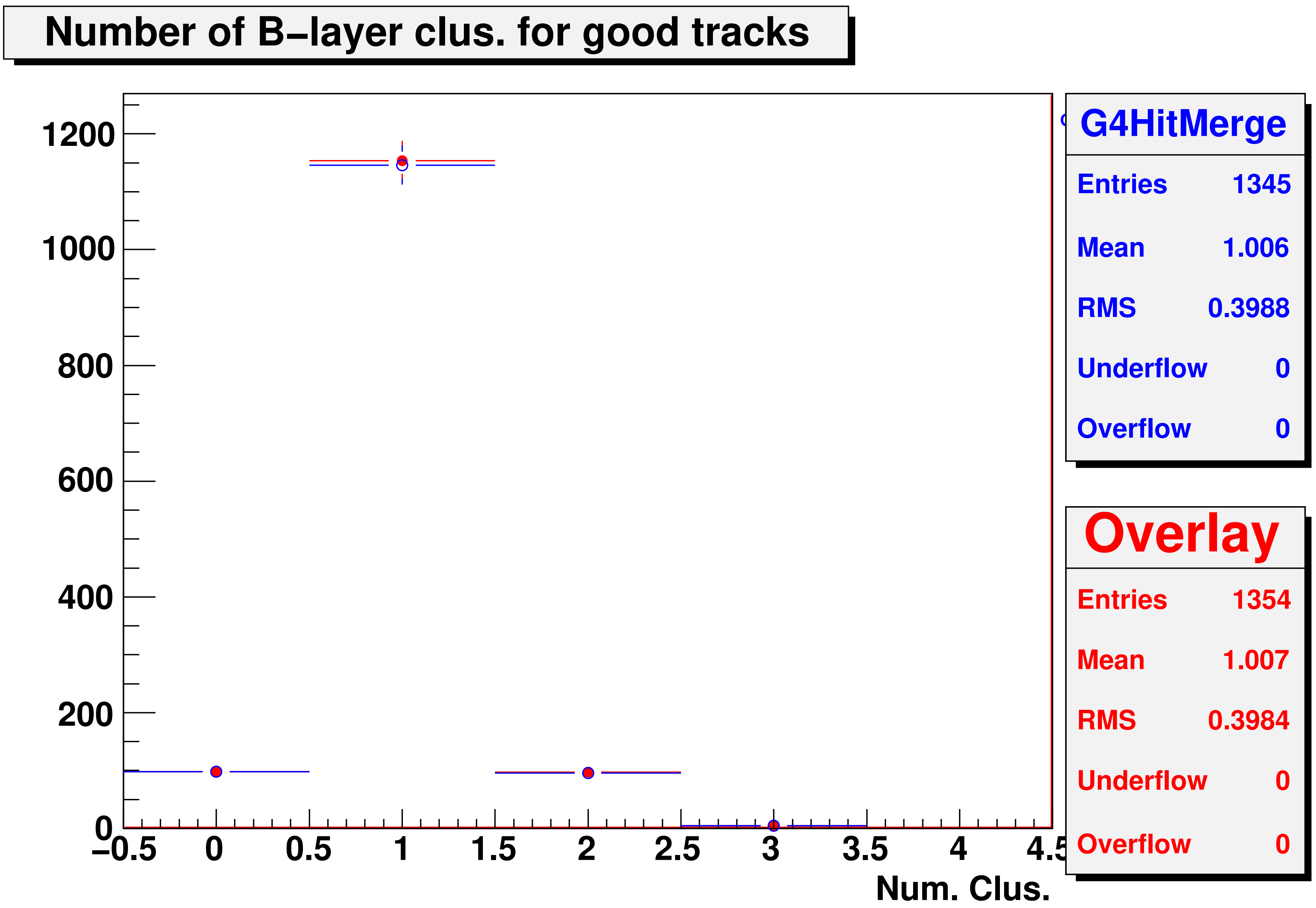


Number of TRT clus.
G4HitMerge
Entries 1345
Mean 27.27
RMS 13.85
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean 27.35
RMS 13.79
Underflow 0
Overflow 0
Num. Hits
0
10
20
30
40
50
0
20
40
60
80
100
120
140
160
180
200
220
240

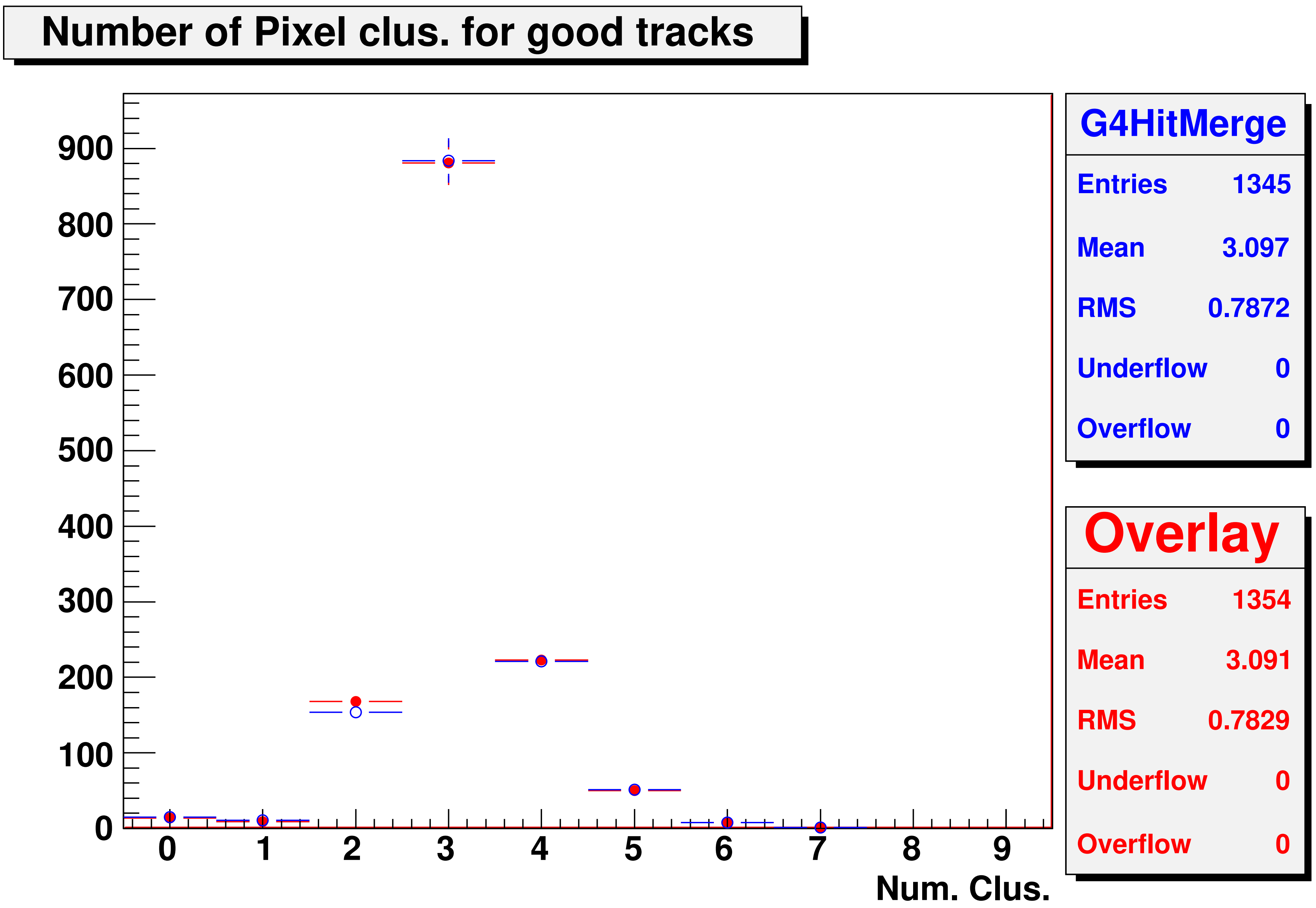


Number of TRT outliers
G4HitMerge
Entries 1345
Mean 0.1056
RMS 1.467
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean 0.1203
RMS 1.396
Underflow 0
Overflow 0
10^3
10^2
10
1
0
10
20
30
40
50
Num. Outliers

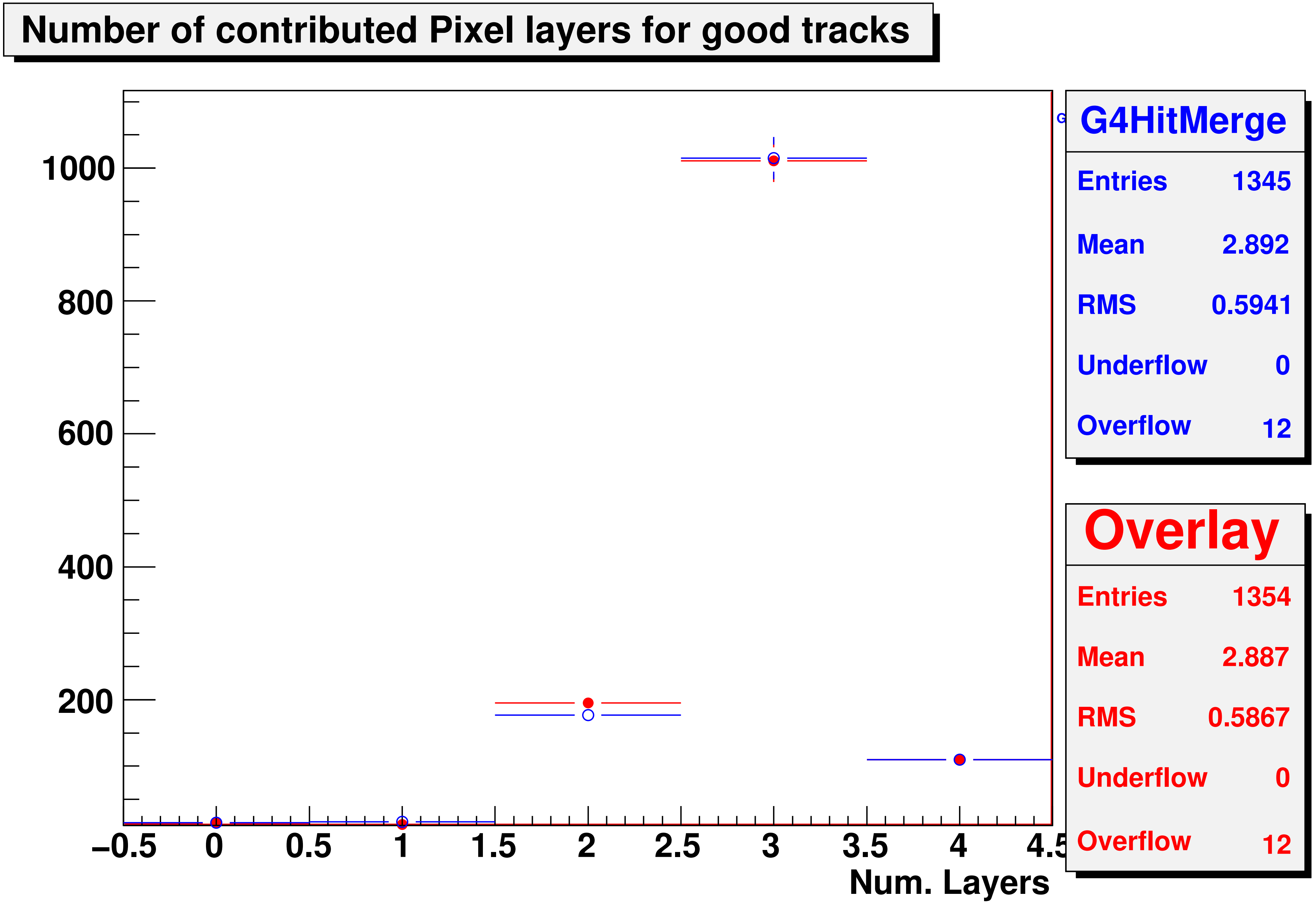

Number of TRT high threshold clus.
250
200
150
100
50
0
0
5
10
15
20
25
30
Num. Hits
G4HitMerge
Entries 1345
Mean 7.094
RMS 5.061
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean 6.001
RMS 4.386
Underflow 0
Overflow 0



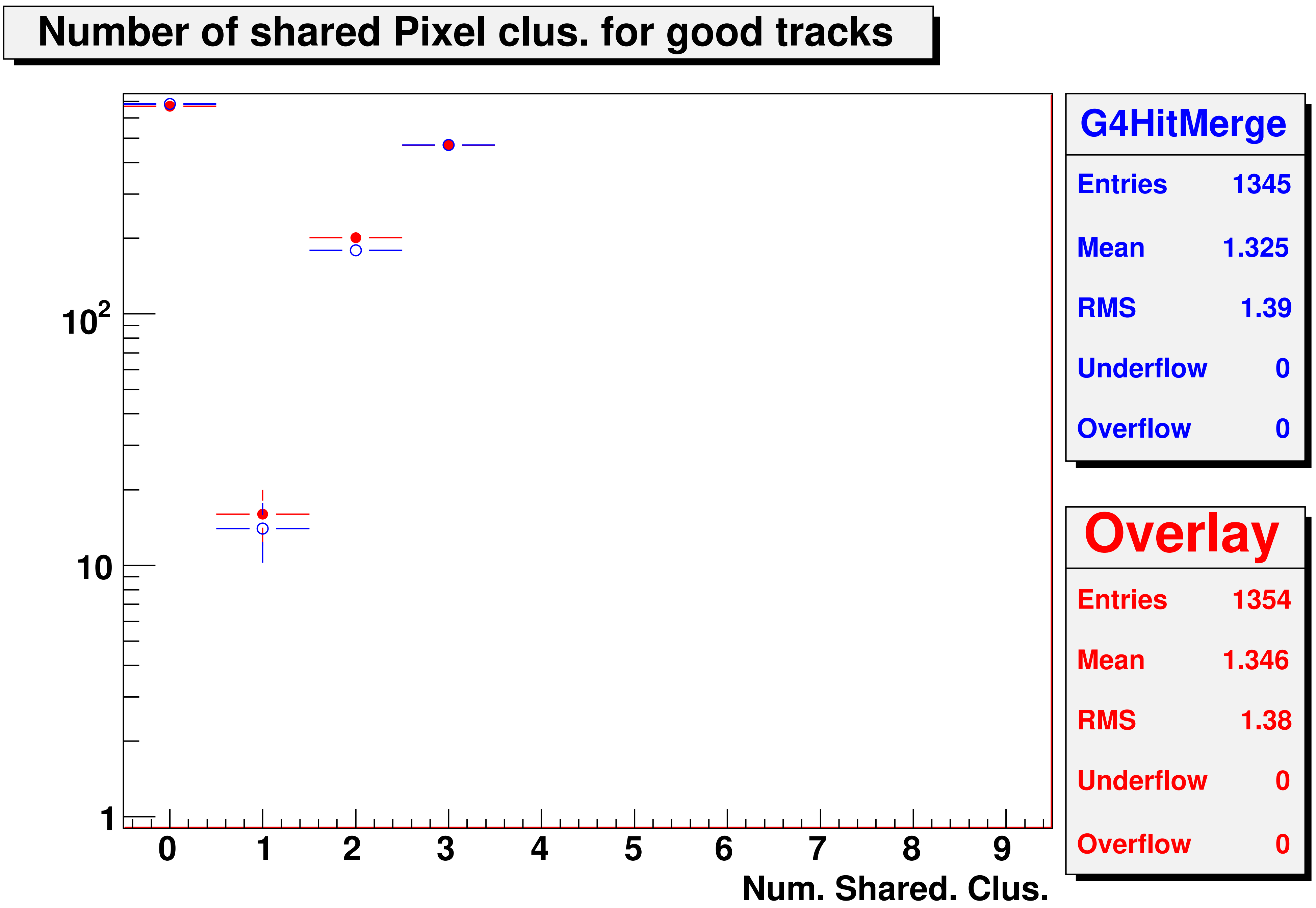
Number of B−layer clus. for good tracks
1200
1000
800
600
400
200
0
−0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Clus.
G4HitMerge
Entries 1345
Mean 1.006
RMS 0.3988
Underflow 0
Overflow 0
Overlay
Entries 1354
Mean 1.007
RMS 0.3984
Underflow 0
Overflow 0

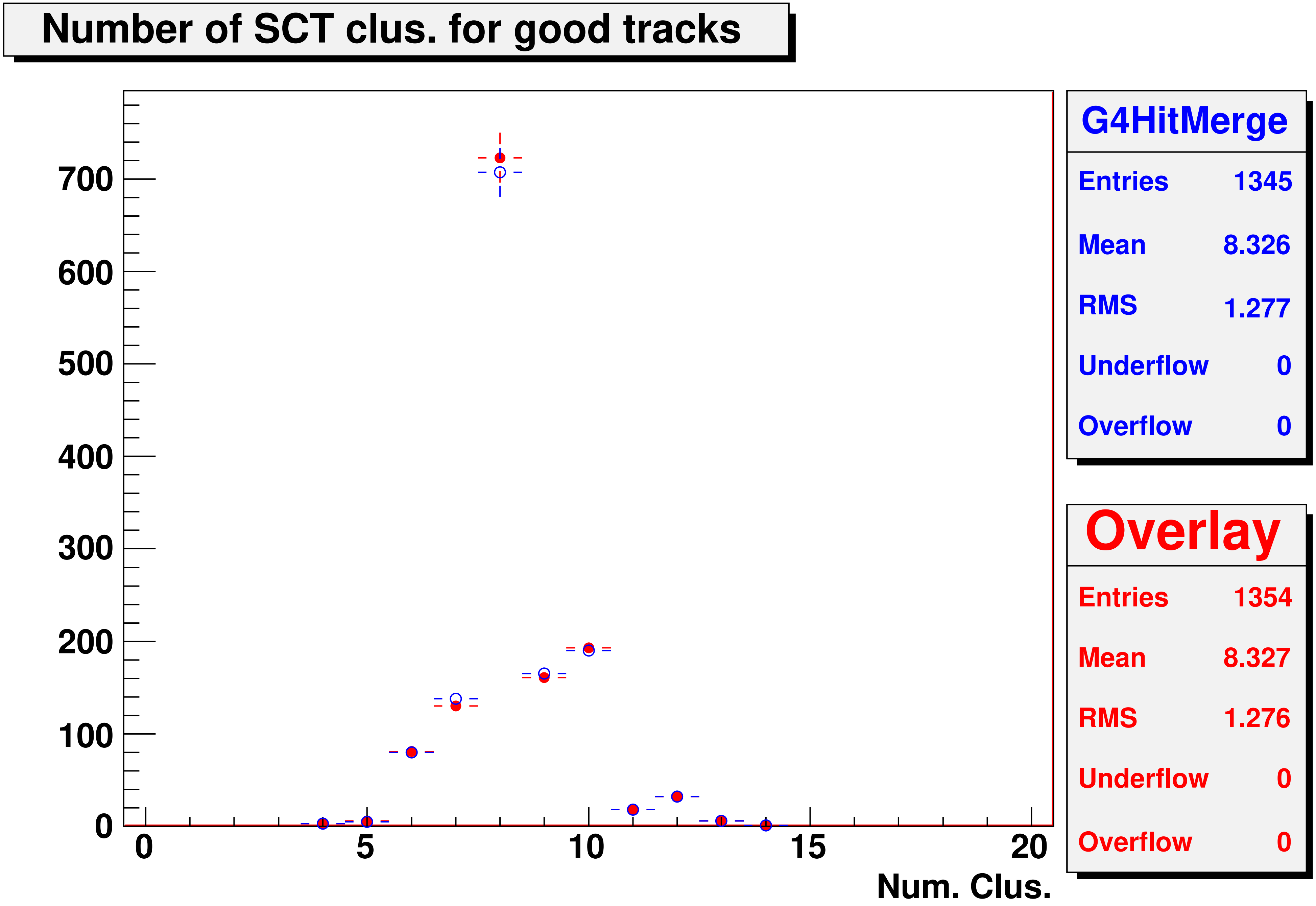


Number of Pixel clus. for good tracks
900
800
700
600
500
400
300
200
100
0
0
1
2
3
4
5
6
7
8
9
Num. Clus.
G4HitMerge
Entries 1345
Mean 3.097
RMS 0.7872
Underflow 0
Overflow 0
Overlay
Entries 1354
Mean 3.091
RMS 0.7829
Underflow 0
Overflow 0

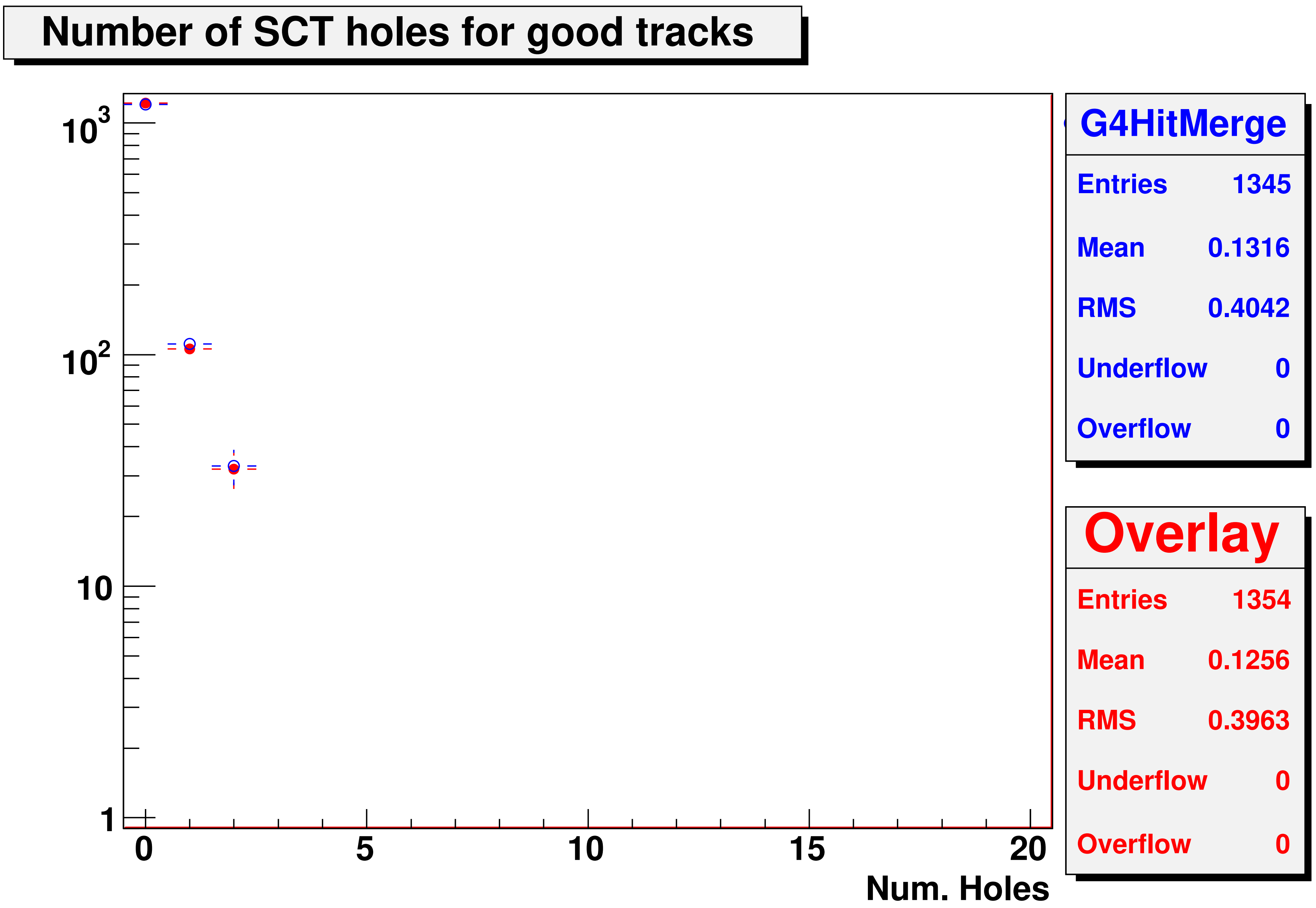


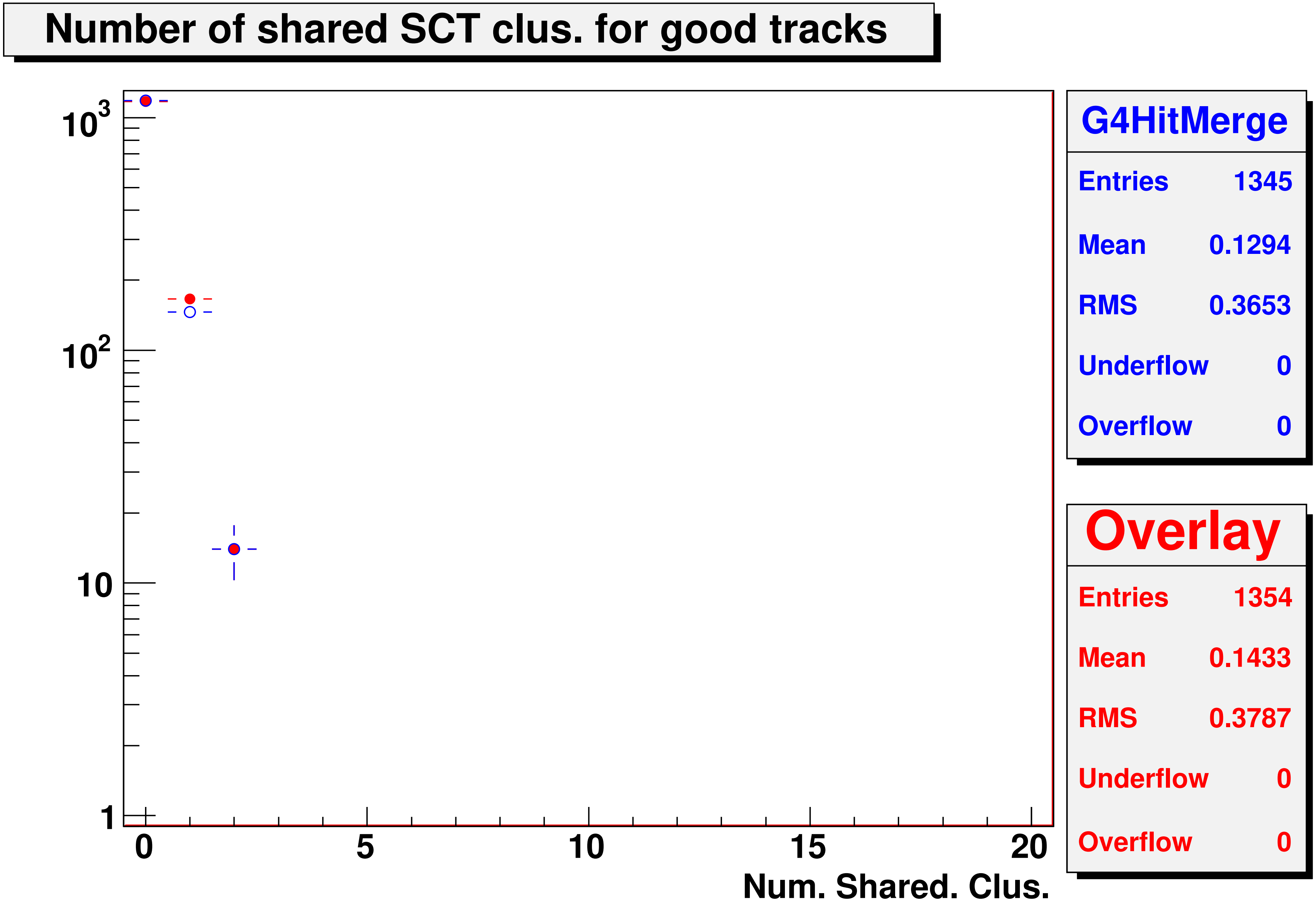
Number of contributed Pixel layers for good tracks
1000
800
600
400
200
–0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Num. Layers
G4HitMerge
Entries 1345
Mean 2.892
RMS 0.5941
Underflow 0
Overflow 12
Overlay
Entries 1354
Mean 2.887
RMS 0.5867
Underflow 0
Overflow 12

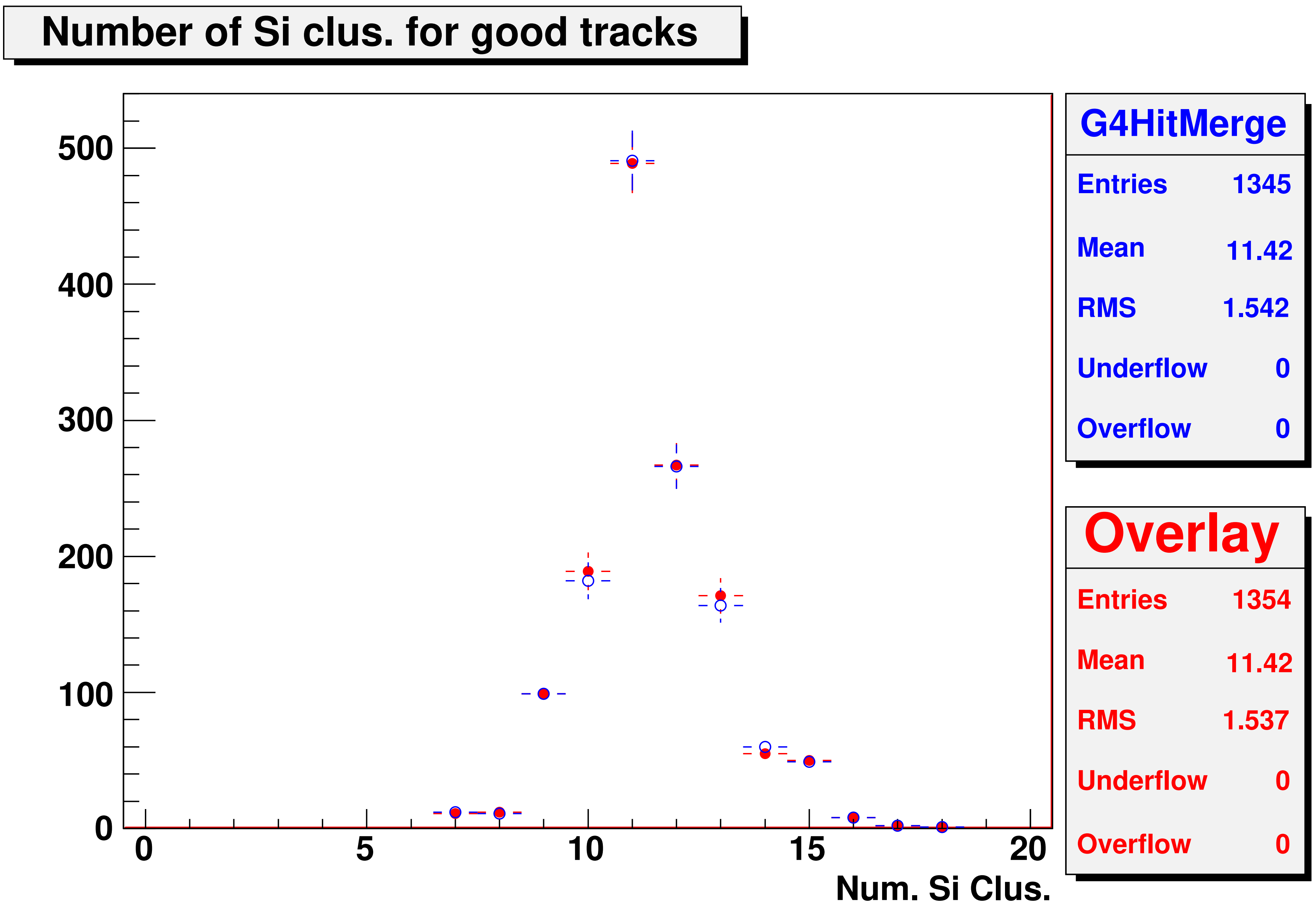

Number of shared Pixel clus. for good tracks
10^2
10
1
0
1
2
3
4
5
6
7
8
9
Num. Shared. Clus.
G4HitMerge
Entries 1345
Mean 1.325
RMS 1.39
Underflow 0
Overflow 0
Overlay
Entries 1354
Mean 1.346
RMS 1.38
Underflow 0
Overflow 0

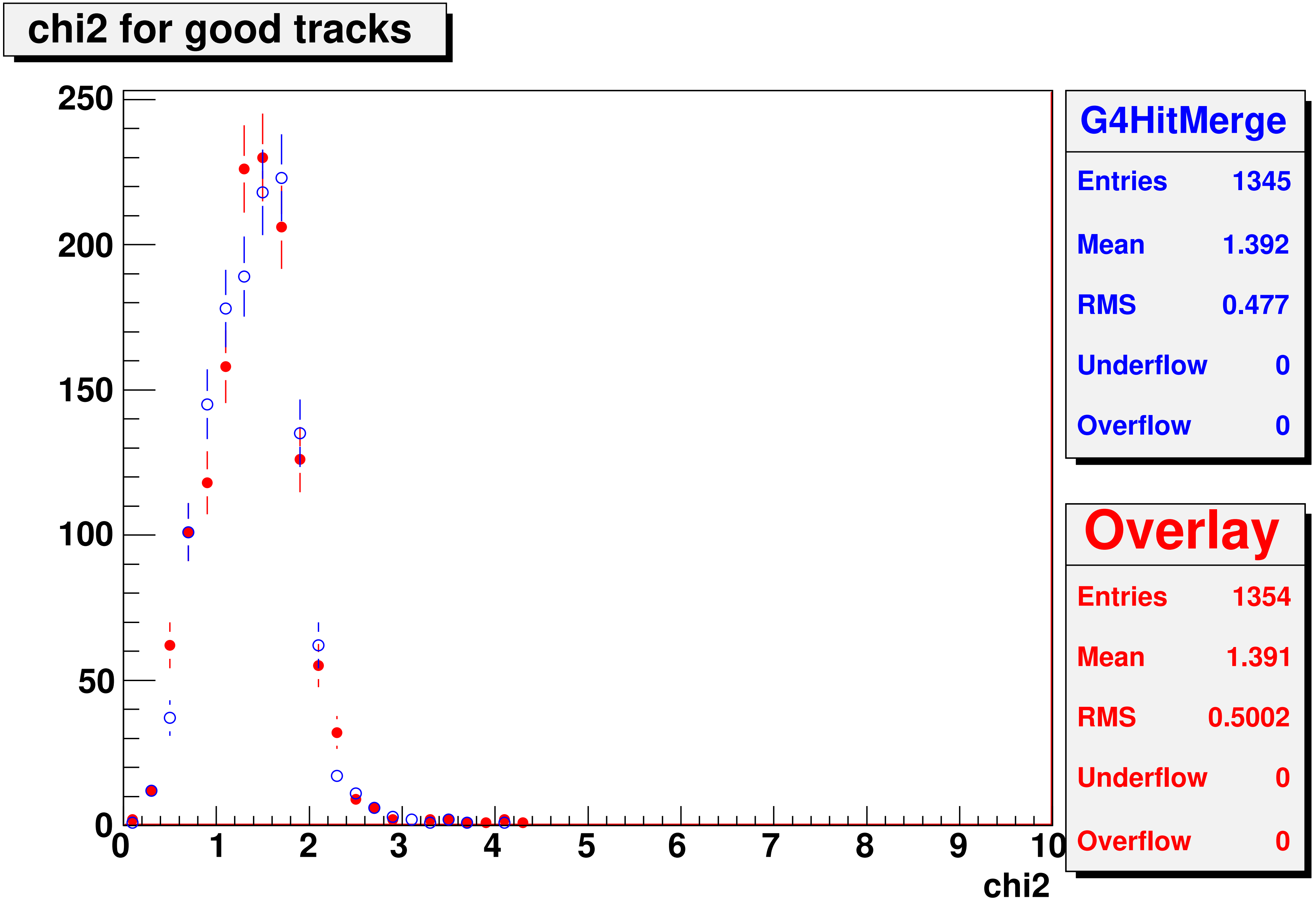


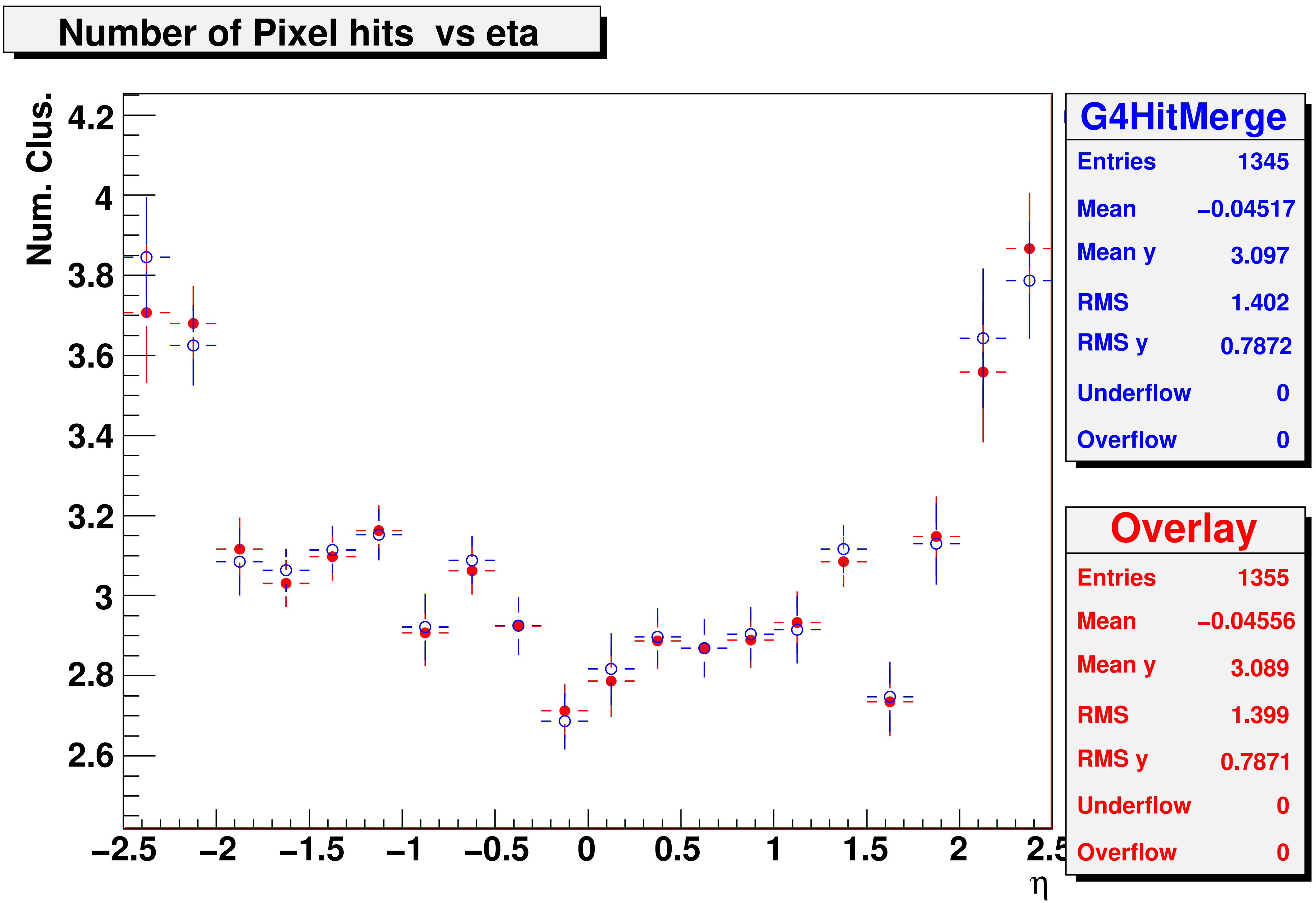
Number of SCT clus. for good tracks
G4HitMerge
Entries 1345
Mean 8.326
RMS 1.277
Underflow 0
Overflow 0
Overlay
Entries 1354
Mean 8.327
RMS 1.276
Underflow 0
Overflow 0
0
100
200
300
400
500
600
700
0
5
10
15
20
Num. Clus.

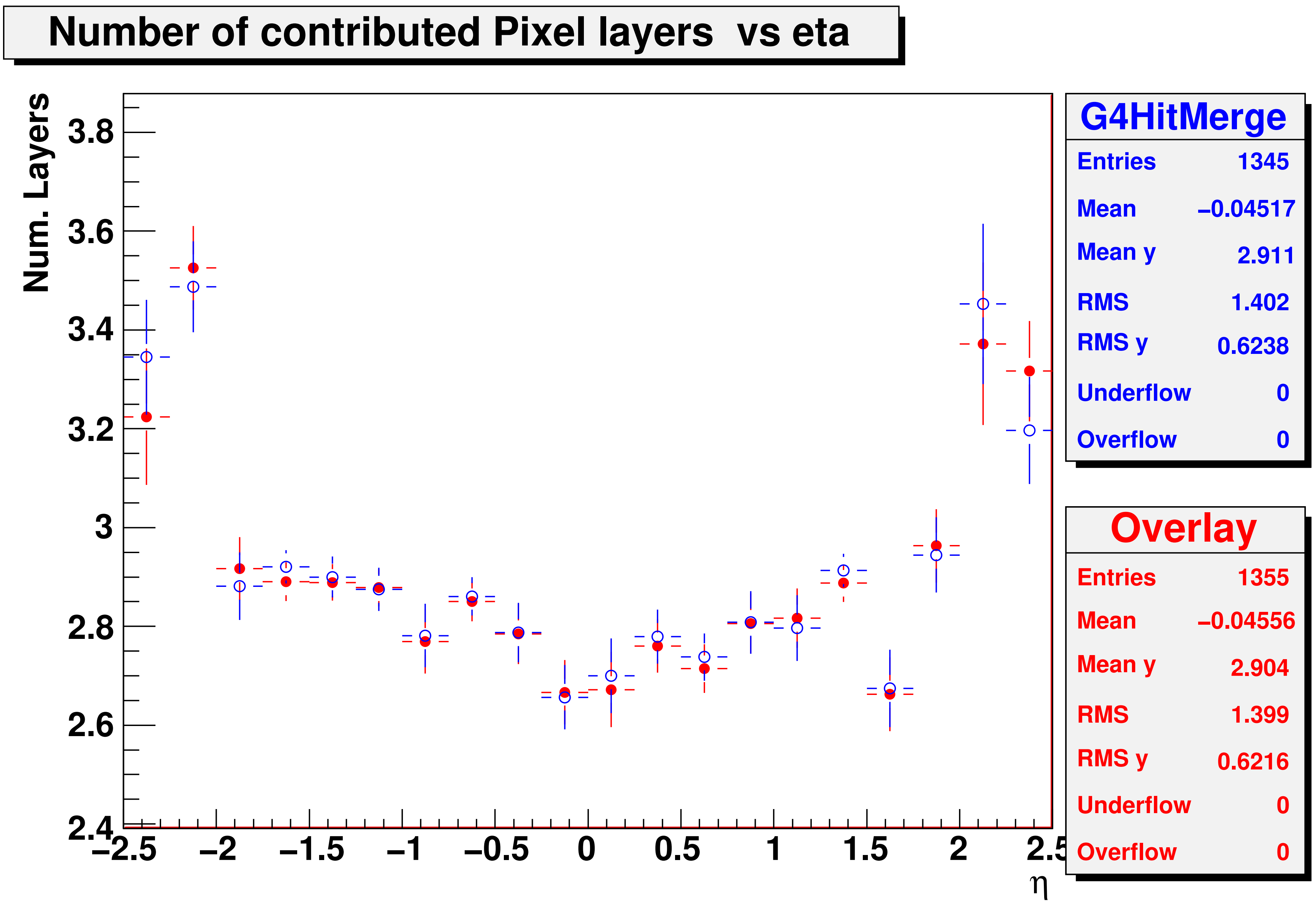

Number of SCT holes for good tracks
G4HitMerge
Entries 1345
Mean 0.1316
RMS 0.4042
Underflow 0
Overflow 0
Overlay
Entries 1354
Mean 0.1256
RMS 0.3963
Underflow 0
Overflow 0
10^3
10^2
10
1
0
5
10
15
20
Num. Holes


Number of shared SCT clus. for good tracks
G4HitMerge
Entries 1345
Mean 0.1294
RMS 0.3653
Underflow 0
Overflow 0
Overlay
Entries 1354
Mean 0.1433
RMS 0.3787
Underflow 0
Overflow 0
10^3
10^2
10
1
0
5
10
15
20
Num. Shared. Clus.

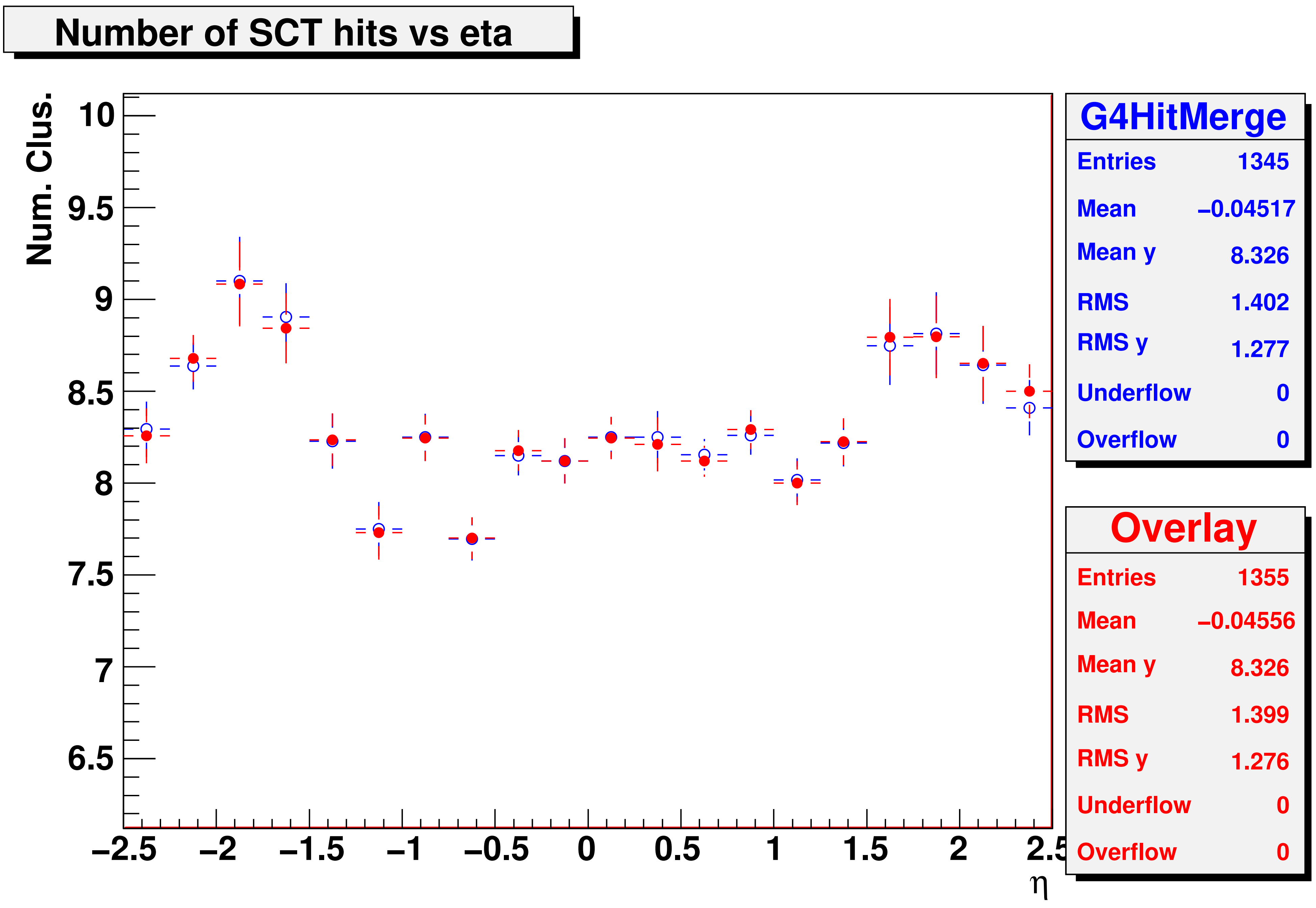

Number of Si clus. for good tracks
500
400
300
200
100
0
0
5
10
15
20
Num. Si Clus.
G4HitMerge
Entries 1345
Mean 11.42
RMS 1.542
Underflow 0
Overflow 0
Overlay
Entries 1354
Mean 11.42
RMS 1.537
Underflow 0
Overflow 0

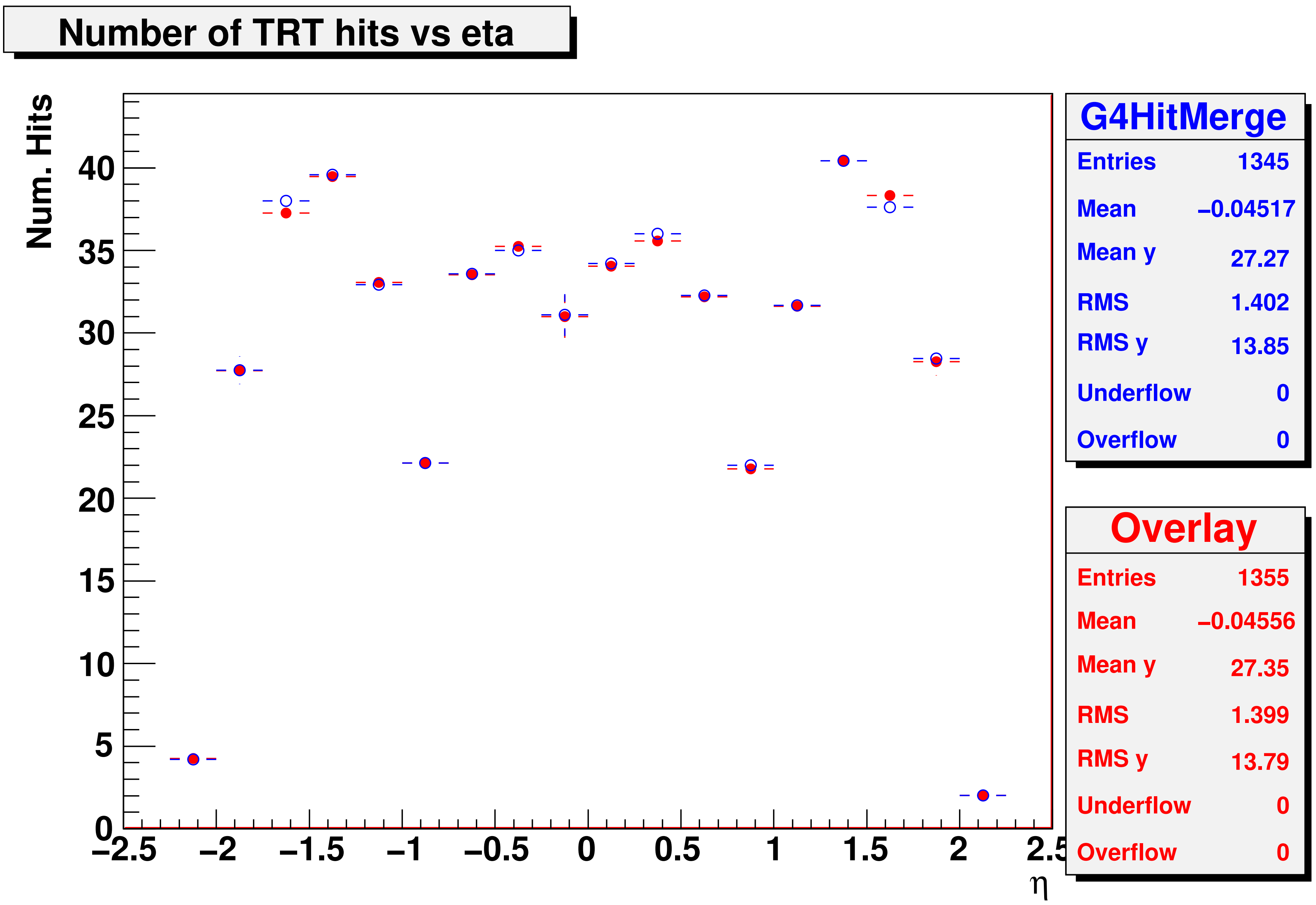

chi2 for good tracks
G4HitMerge
Entries 1345
Mean 1.392
RMS 0.477
Underflow 0
Overflow 0
Overlay
Entries 1354
Mean 1.391
RMS 0.5002
Underflow 0
Overflow 0
chi2
0
50
100
150
200
250
0
1
2
3
4
5
6
7
8
9
10

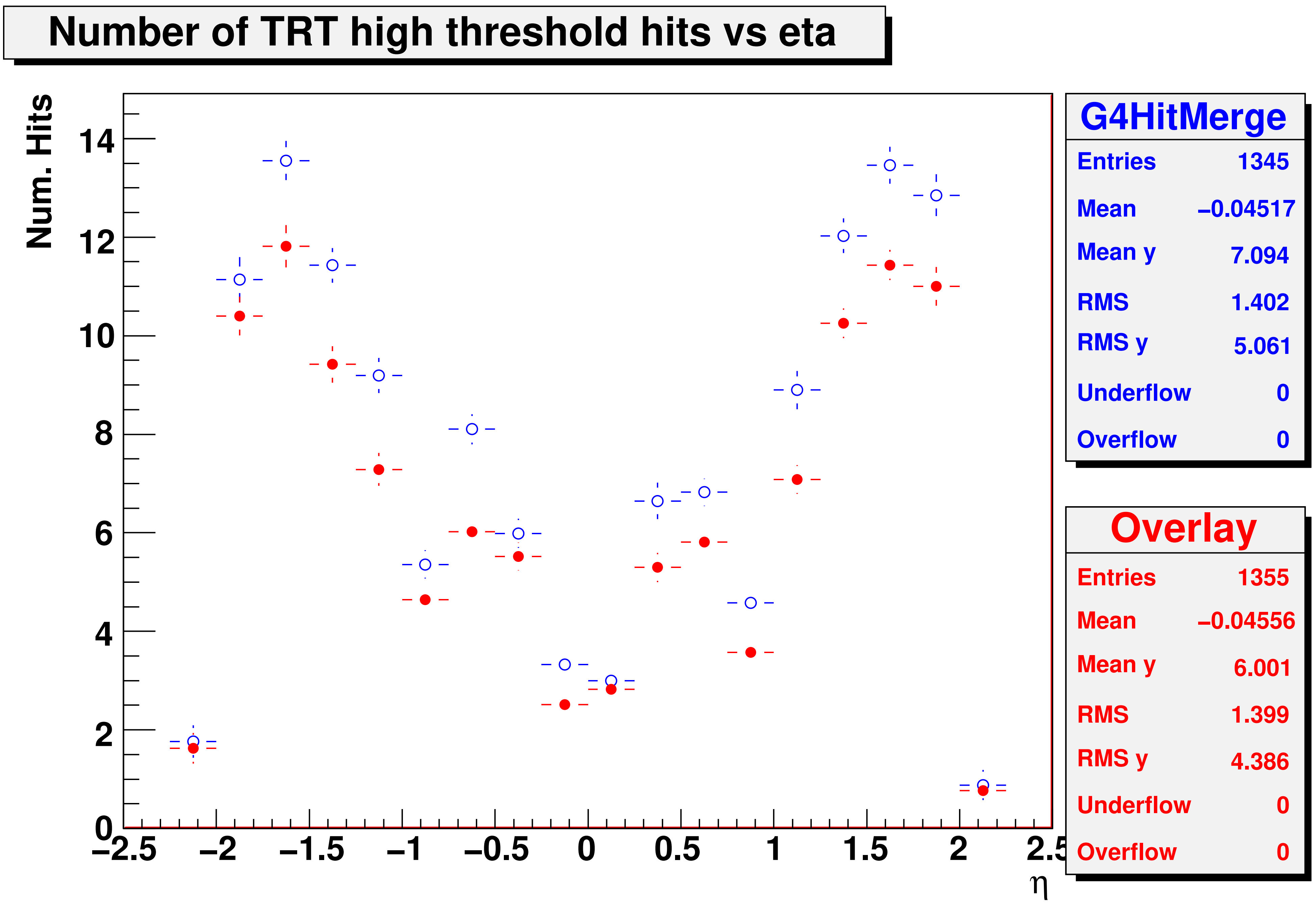

Number of Pixel hits vs eta
Num. Clus.
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
–2.5
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1345
Mean –0.04517
Mean y 3.097
RMS 1.402
RMS y 0.7872
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean –0.04556
Mean y 3.089
RMS 1.399
RMS y 0.7871
Underflow 0
Overflow 0



Number of contributed Pixel layers vs eta
Num. Layers
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
–2.5
–2
–1.5
–1
–0.5
0
0.5
1
1.5
2
2.5
η
G4HitMerge
Entries 1345
Mean –0.04517
Mean y 2.911
RMS 1.402
RMS y 0.6238
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean –0.04556
Mean y 2.904
RMS 1.399
RMS y 0.6216
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 1345
Mean −0.04517
Mean y 8.326
RMS 1.402
RMS y 1.277
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean −0.04556
Mean y 8.326
RMS 1.399
RMS y 1.276
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 1345
Mean −0.04517
Mean y 27.27
RMS 1.402
RMS y 13.85
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean −0.04556
Mean y 27.35
RMS 1.399
RMS y 13.79
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 1345
Mean −0.04517
Mean y 7.094
RMS 1.402
RMS y 5.061
Underflow 0
Overflow 0
Overlay
Entries 1355
Mean −0.04556
Mean y 6.001
RMS 1.399
RMS y 4.386
Underflow 0
Overflow 0