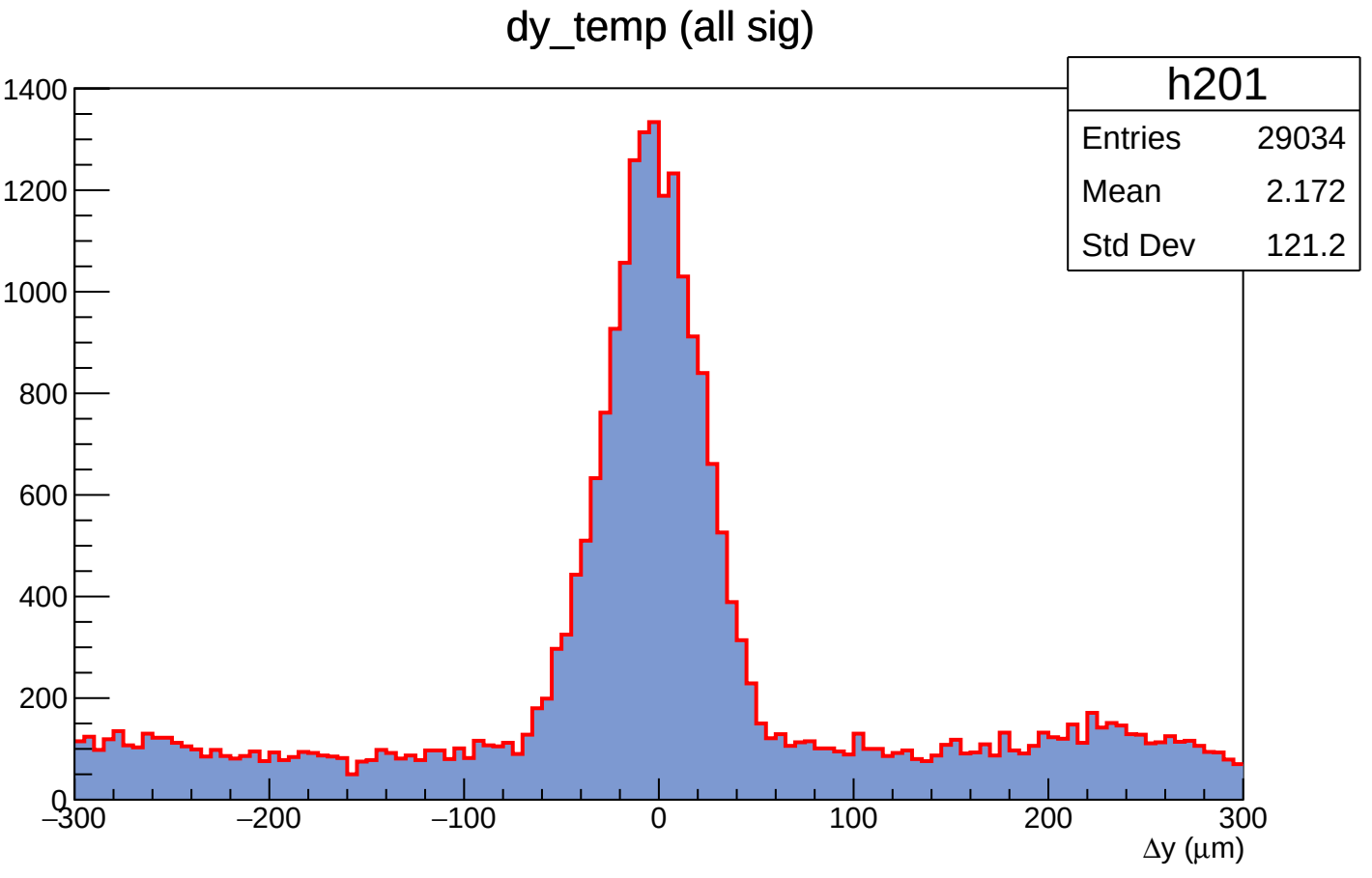
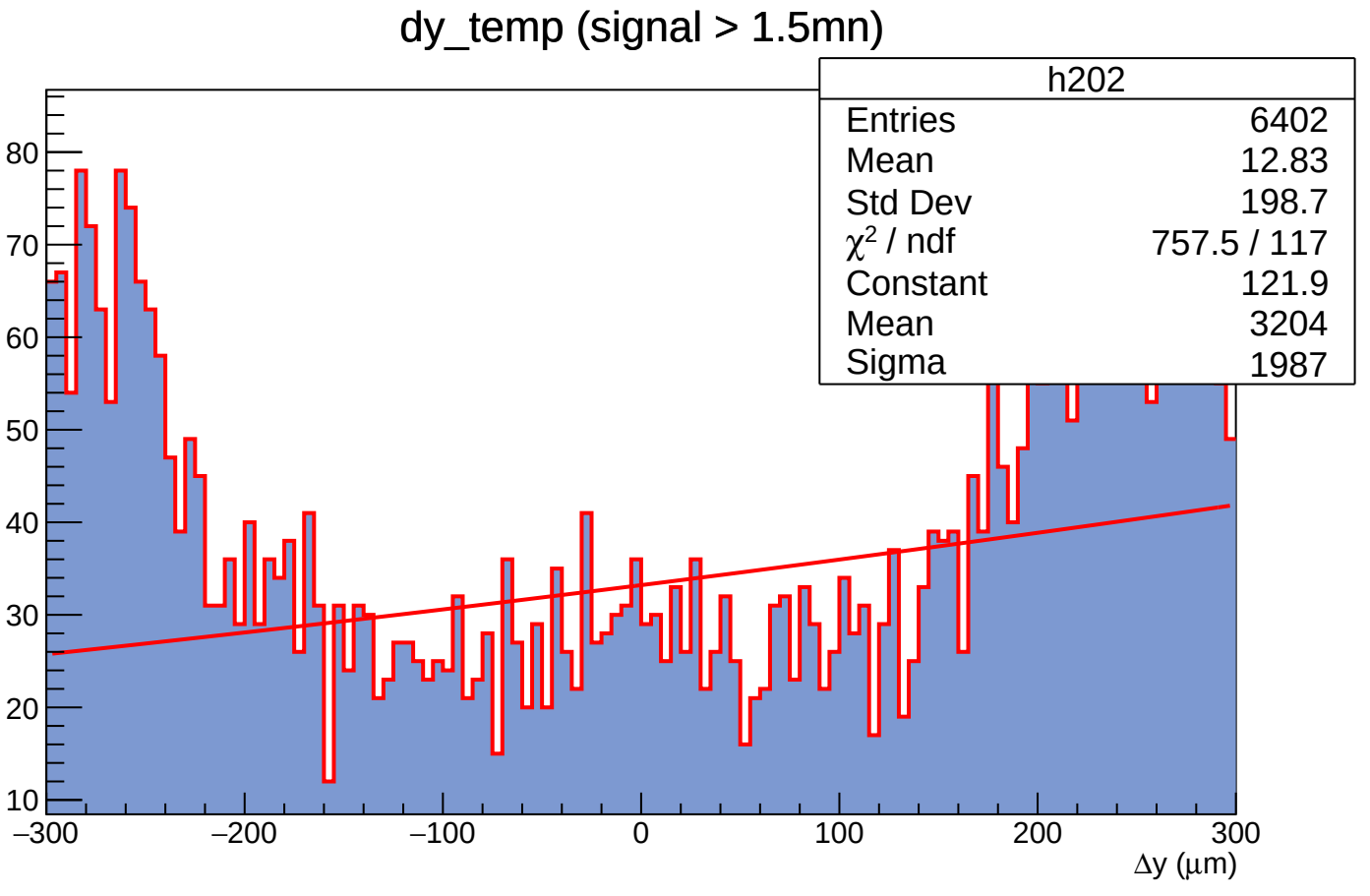
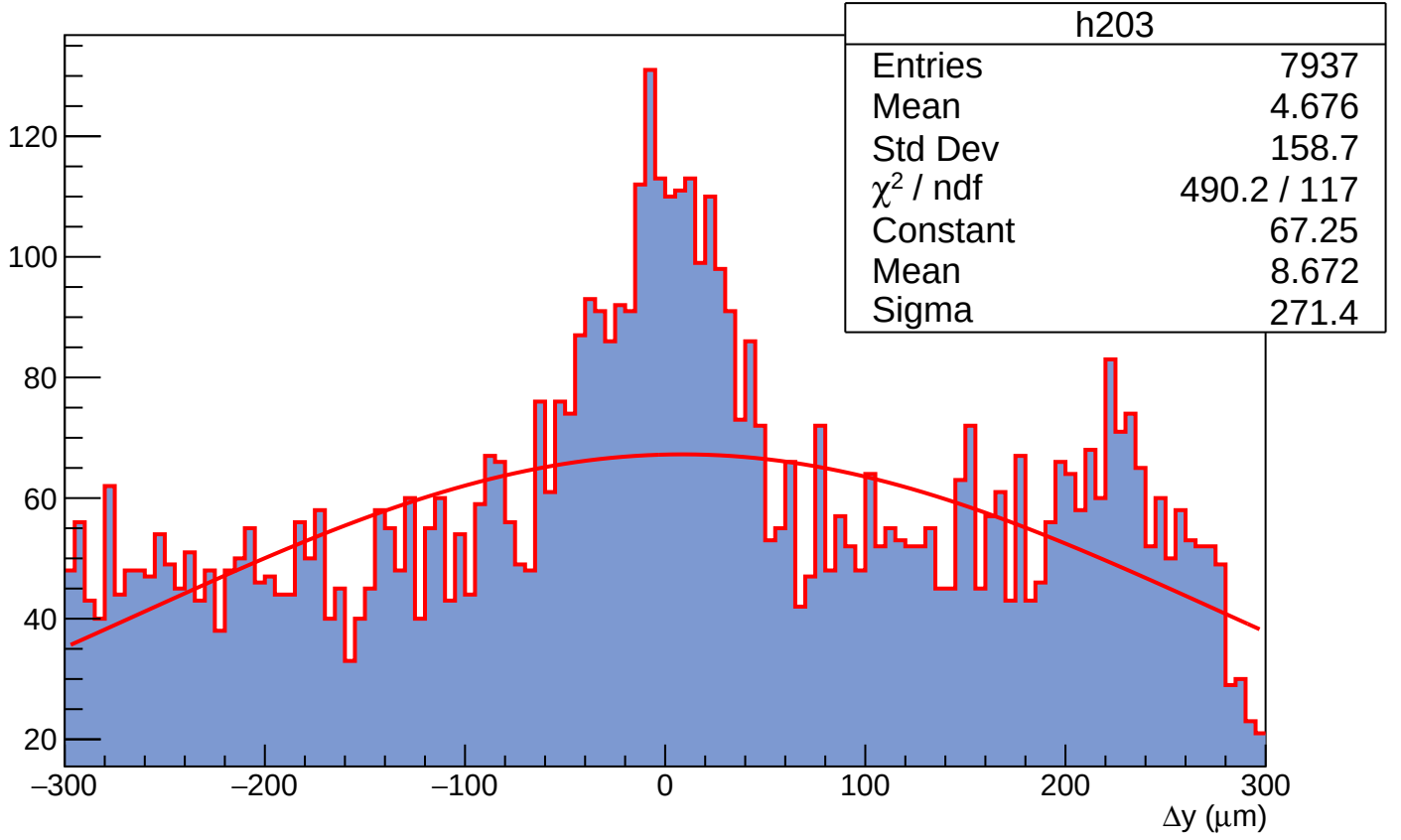
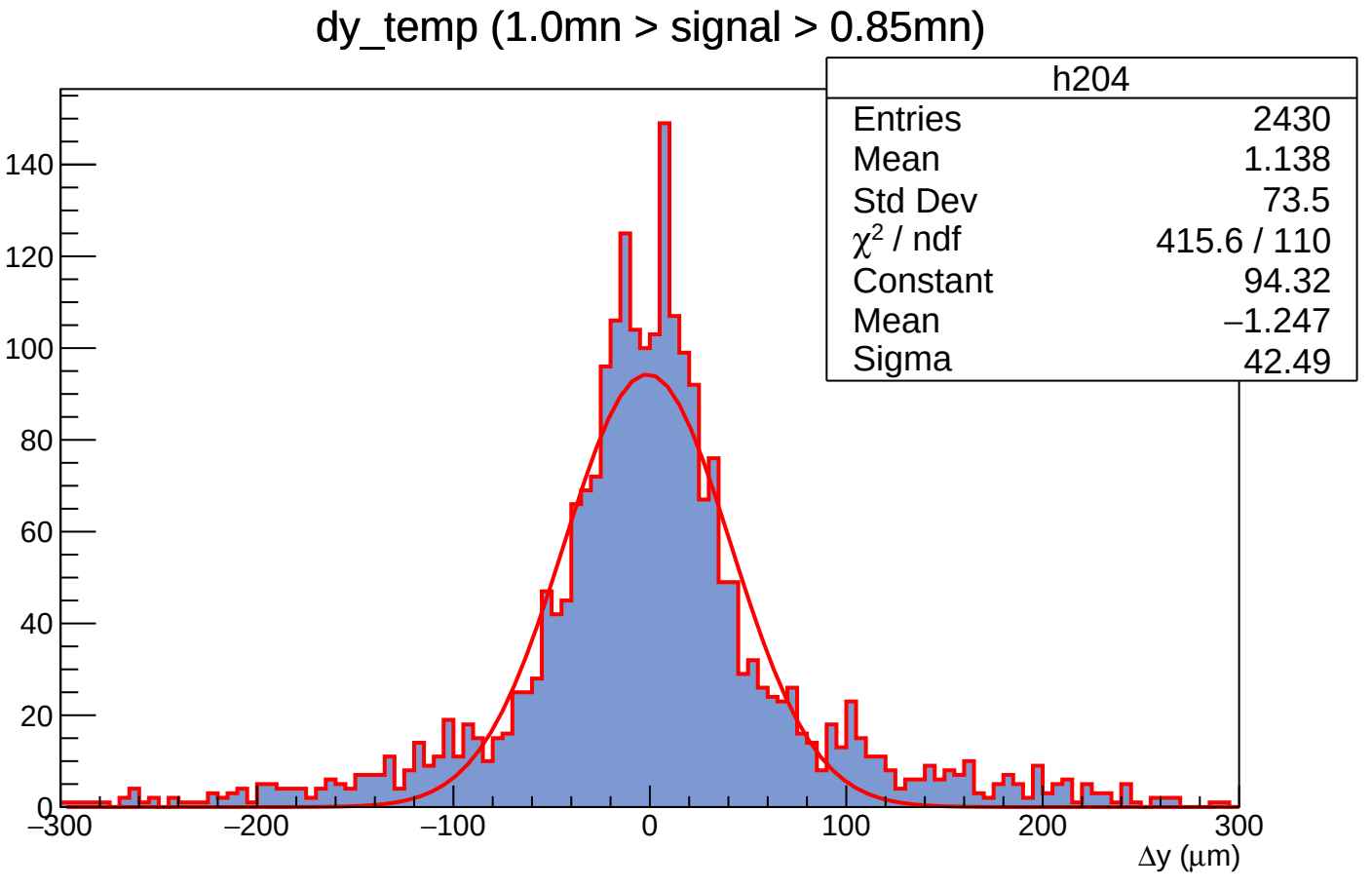
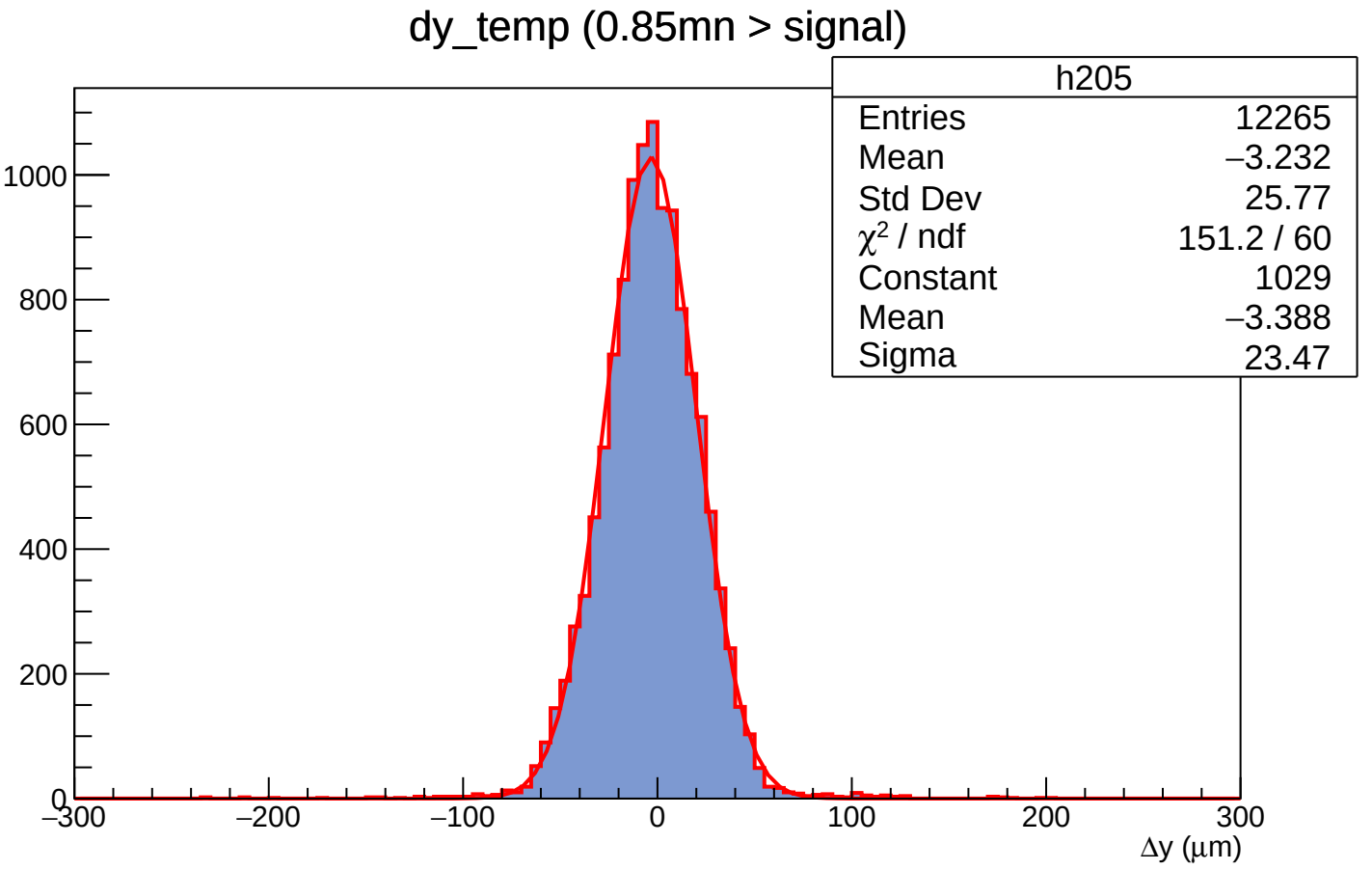
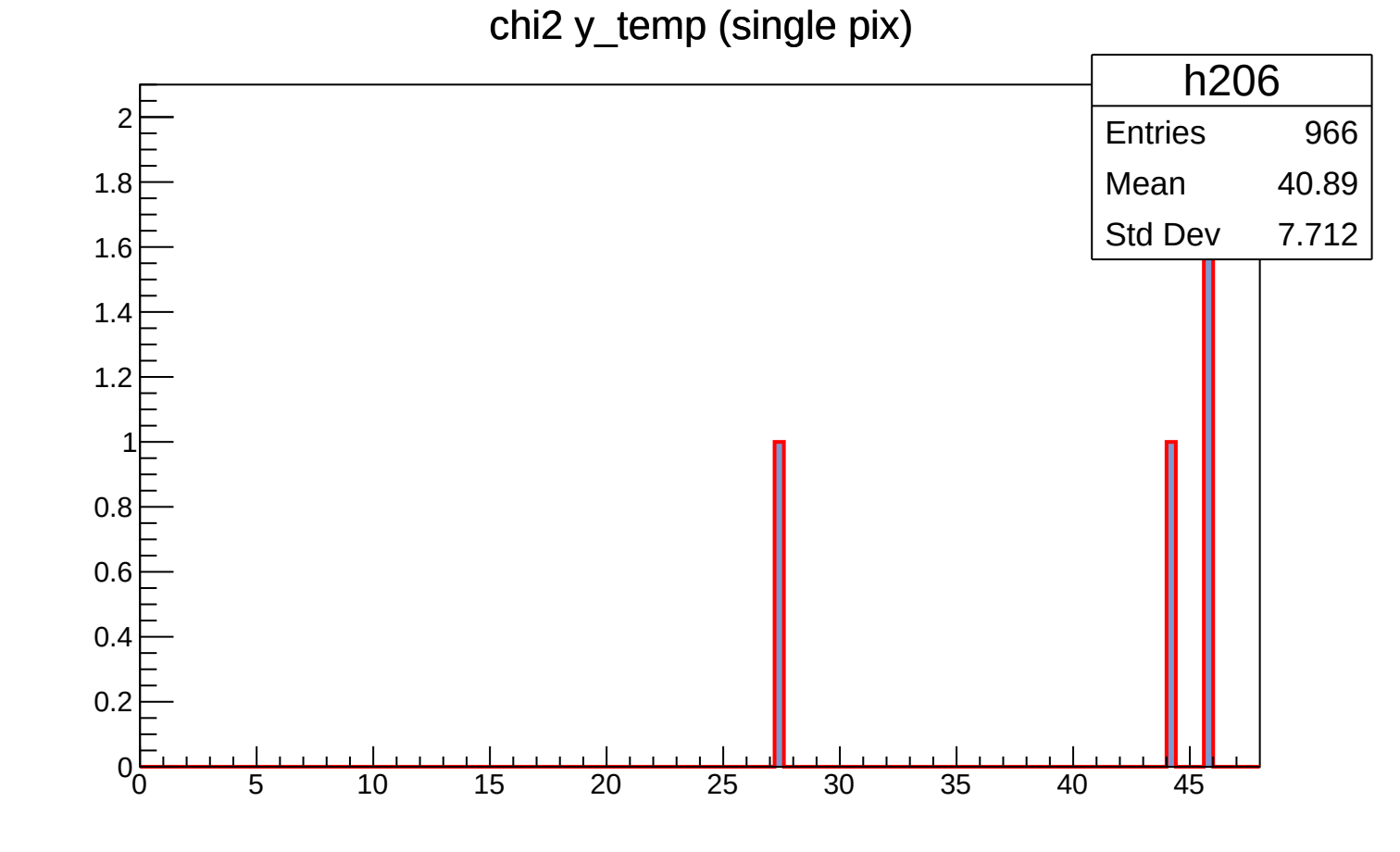

dy_temp (all sig)
h201
Entries 29034
Mean 2.172
Std Dev 121.2
1400
1200
1000
800
600
400
200
0
–300
–200
–100
0
100
200
300
Δy (μm)

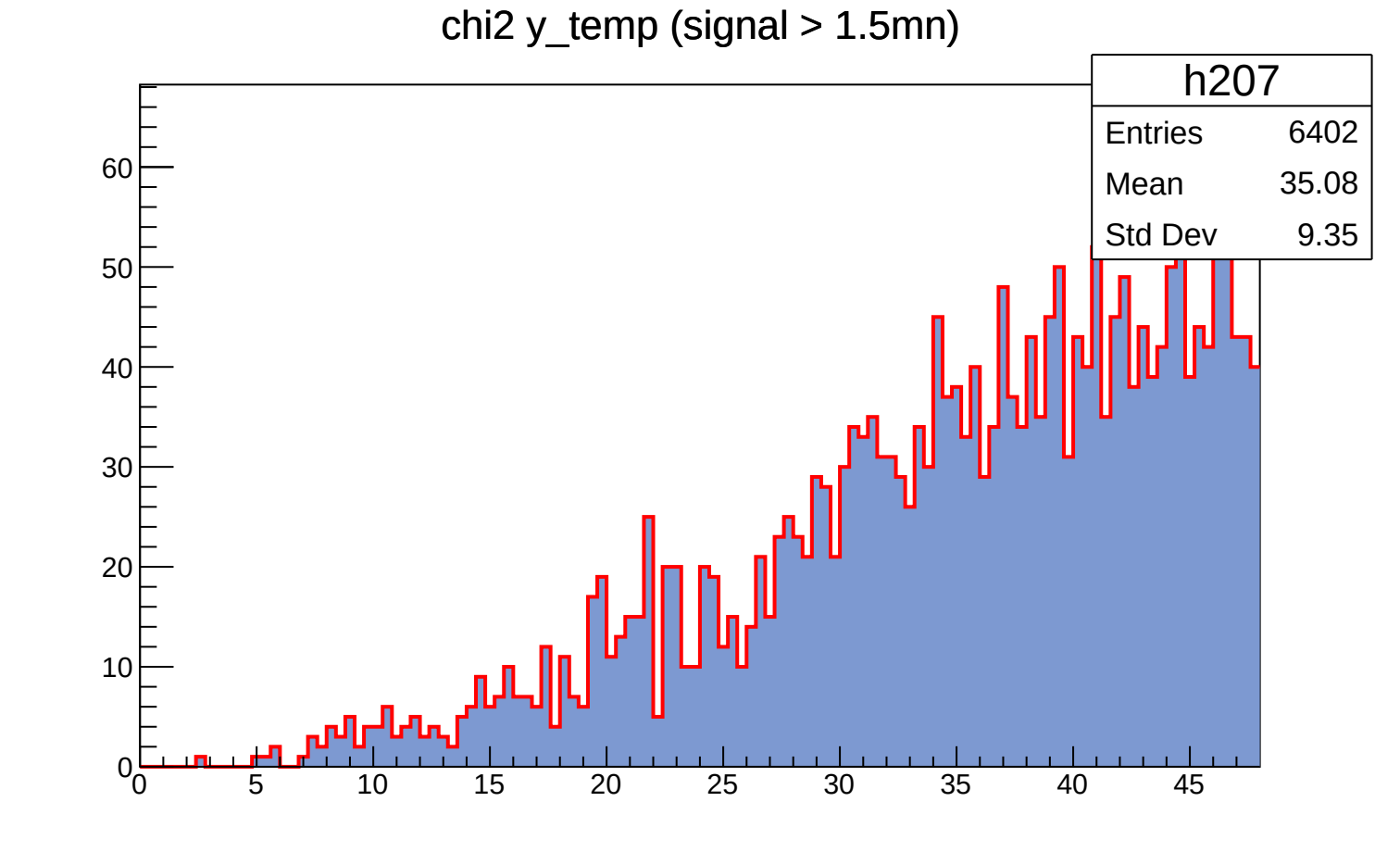

dy_temp (signal > 1.5mn)
h202
Entries 6402
Mean 12.83
Std Dev 198.7
χ² / ndf 757.5 / 117
Constant 121.9
Mean 3204
Sigma 1987
80
70
60
50
40
30
20
10
–300
–200
–100
0
100
200
300
Δy (μm)

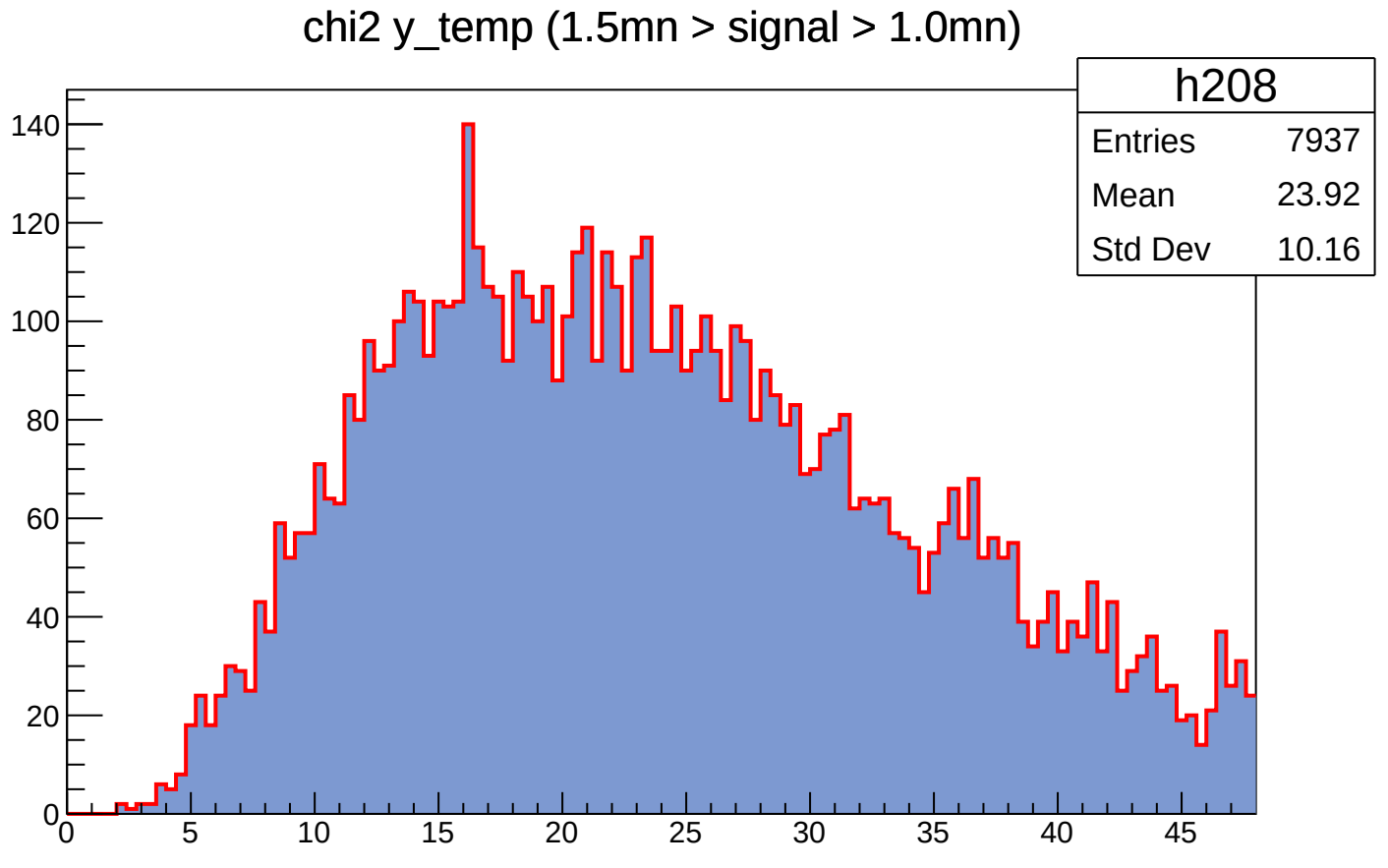

dy_temp (1.5mn > signal > 1.0mn)
h203
Entries 7937
Mean 4.676
Std Dev 158.7
χ² / ndf 490.2 / 117
Constant 67.25
Mean 8.672
Sigma 271.4
120
100
80
60
40
20
–300
–200
–100
0
100
200
300
Δy (μm)

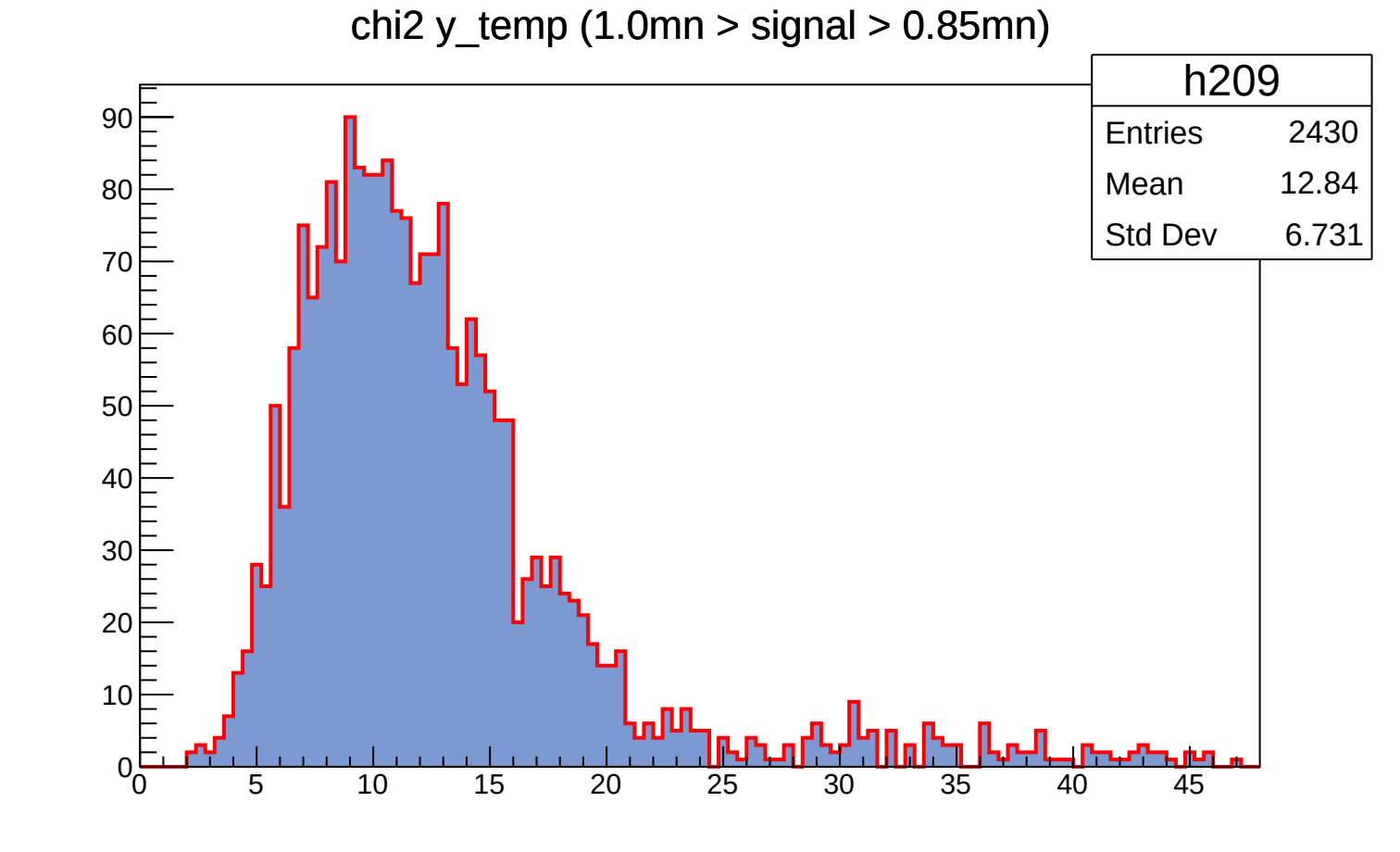

dy_temp (1.0mn > signal > 0.85mn)
h204
Entries 2430
Mean 1.138
Std Dev 73.5
χ² / ndf 415.6 / 110
Constant 94.32
Mean −1.247
Sigma 42.49
140
120
100
80
60
40
20
0
−300
−200
−100
0
100
200
300
Δy (μm)

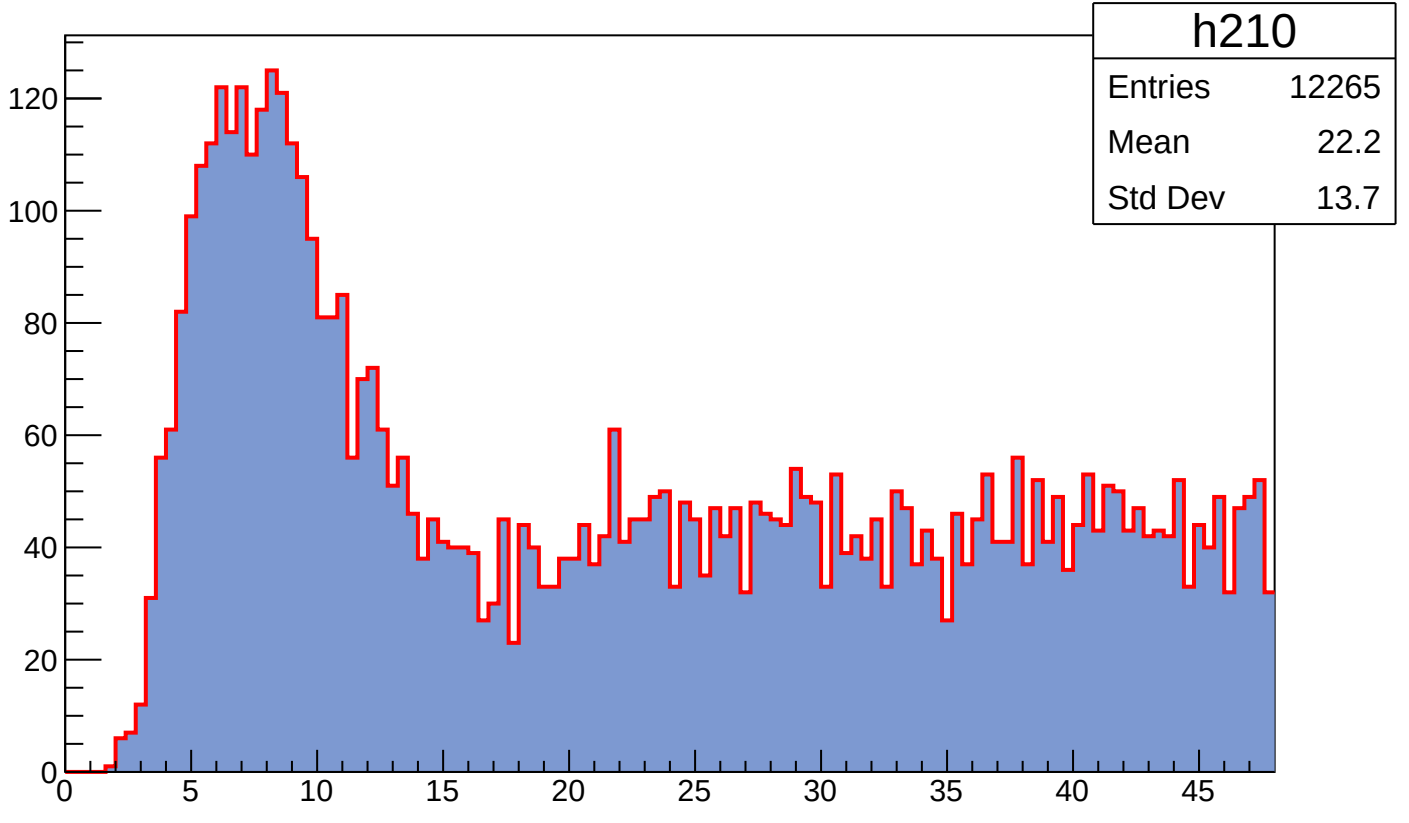

dy_temp (0.85mn > signal)
h205
Entries 12265
Mean −3.232
Std Dev 25.77
χ² / ndf 151.2 / 60
Constant 1029
Mean −3.388
Sigma 23.47
1000
800
600
400
200
0
−300
−200
−100
0
100
200
300
Δy (μm)

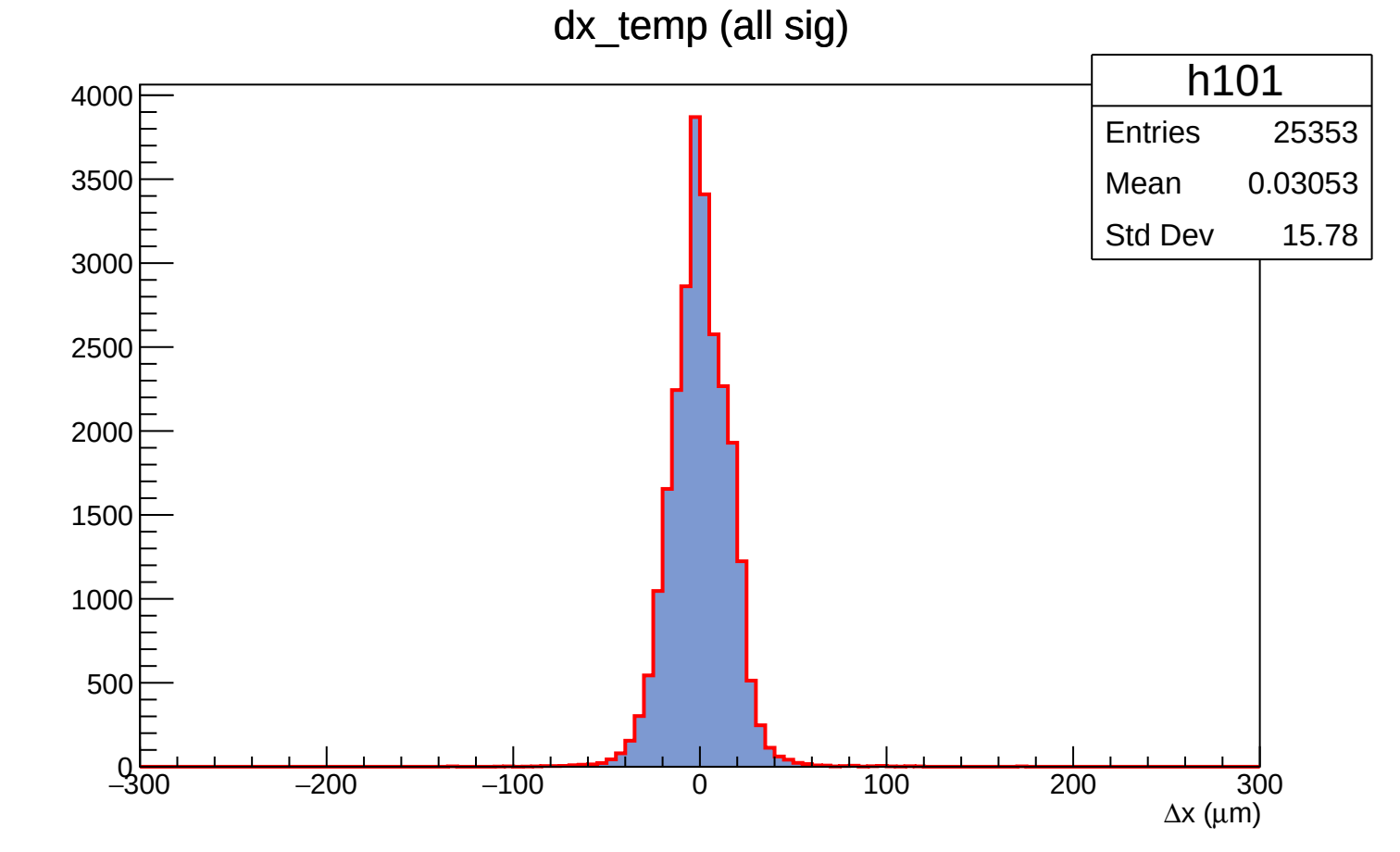

chi2 y_temp (single pix)
h206
Entries 966
Mean 40.89
Std Dev 7.712
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0
5
10
15
20
25
30
35
40
45

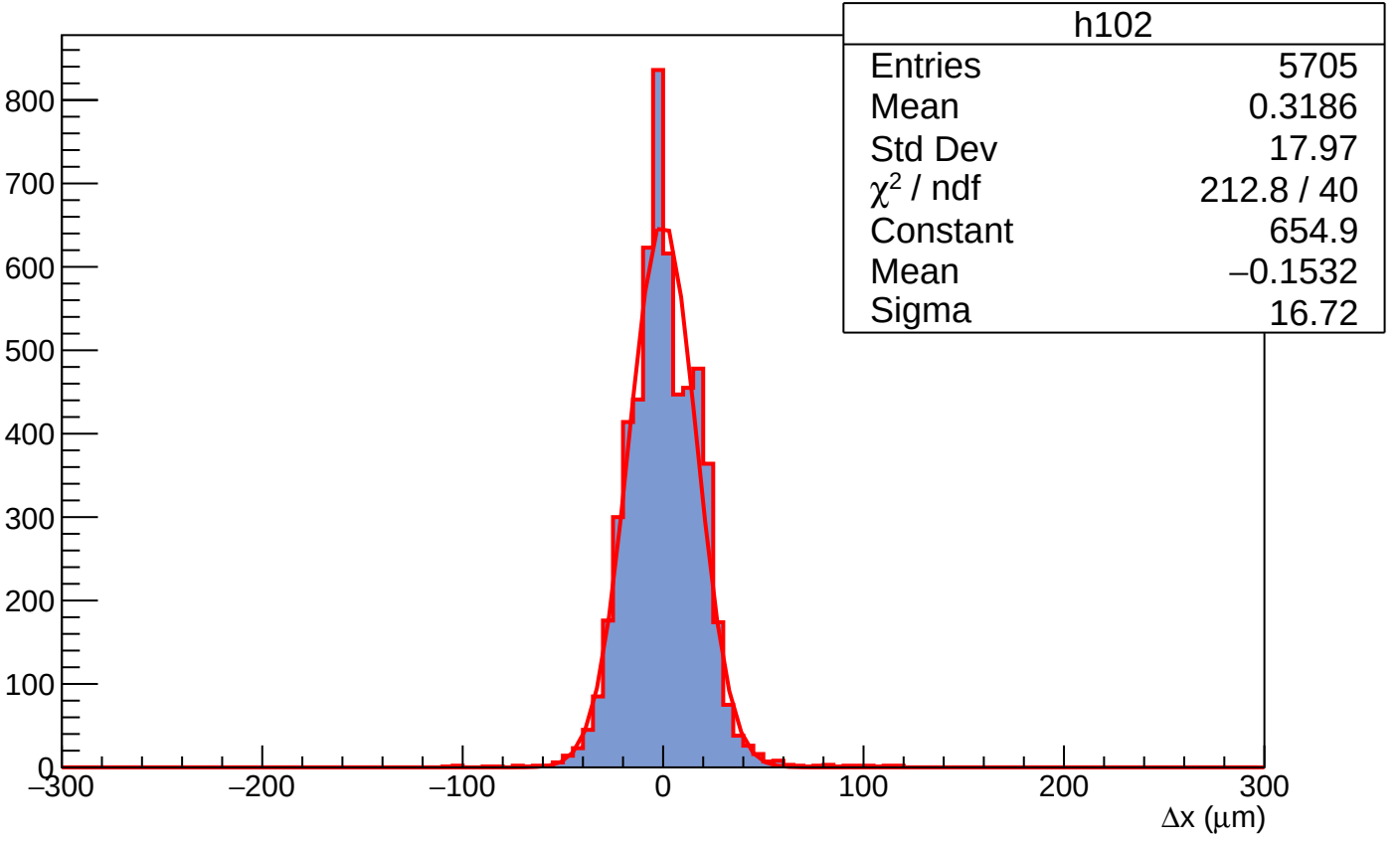

chi2 y_temp (signal > 1.5mn)
h207
Entries 6402
Mean 35.08
Std Dev 9.35
0
10
20
30
40
50
60
0
5
10
15
20
25
30
35
40
45

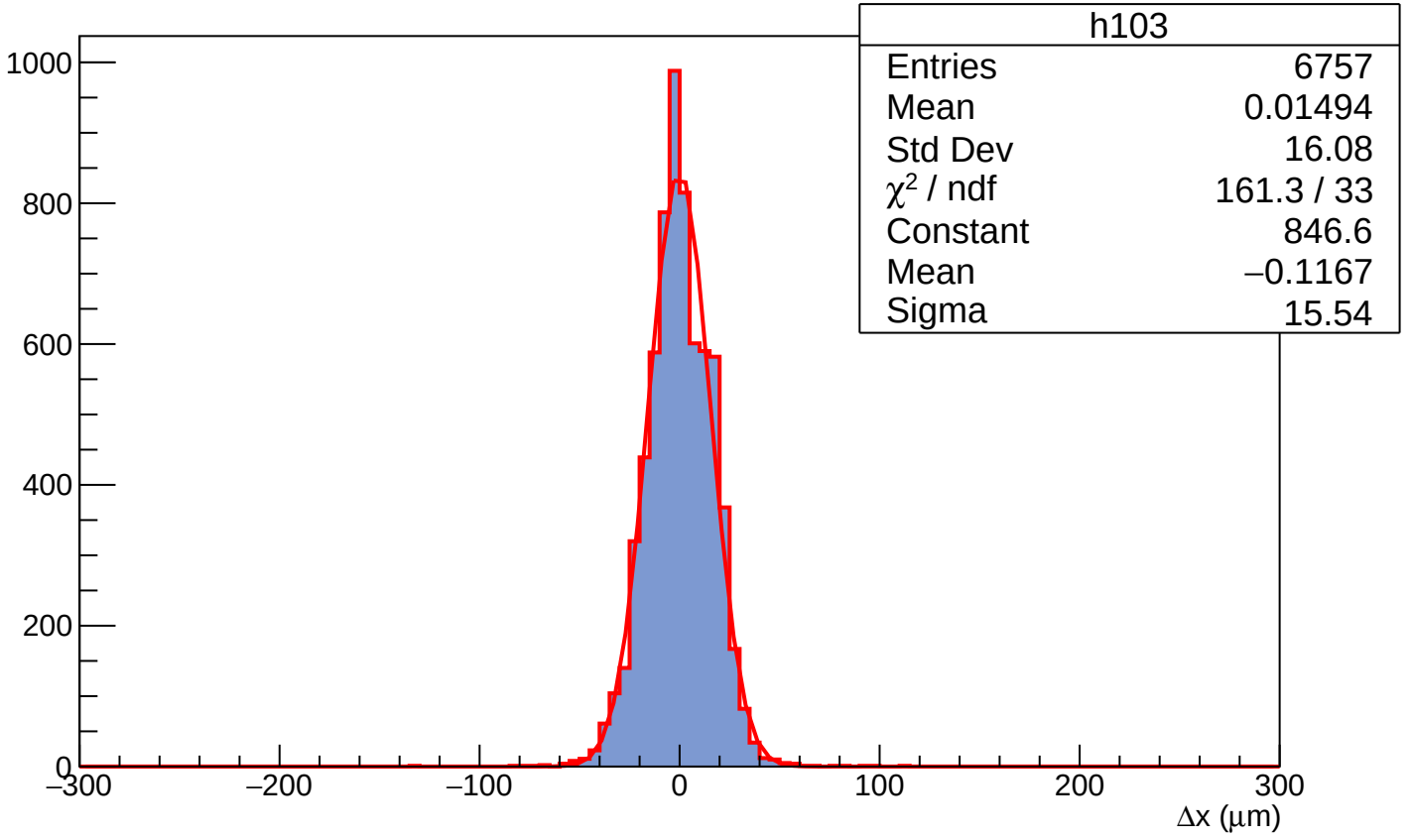

chi2 y_temp (1.5mn > signal > 1.0mn)
h208
Entries 7937
Mean 23.92
Std Dev 10.16
0
20
40
60
80
100
120
140
0
5
10
15
20
25
30
35
40
45

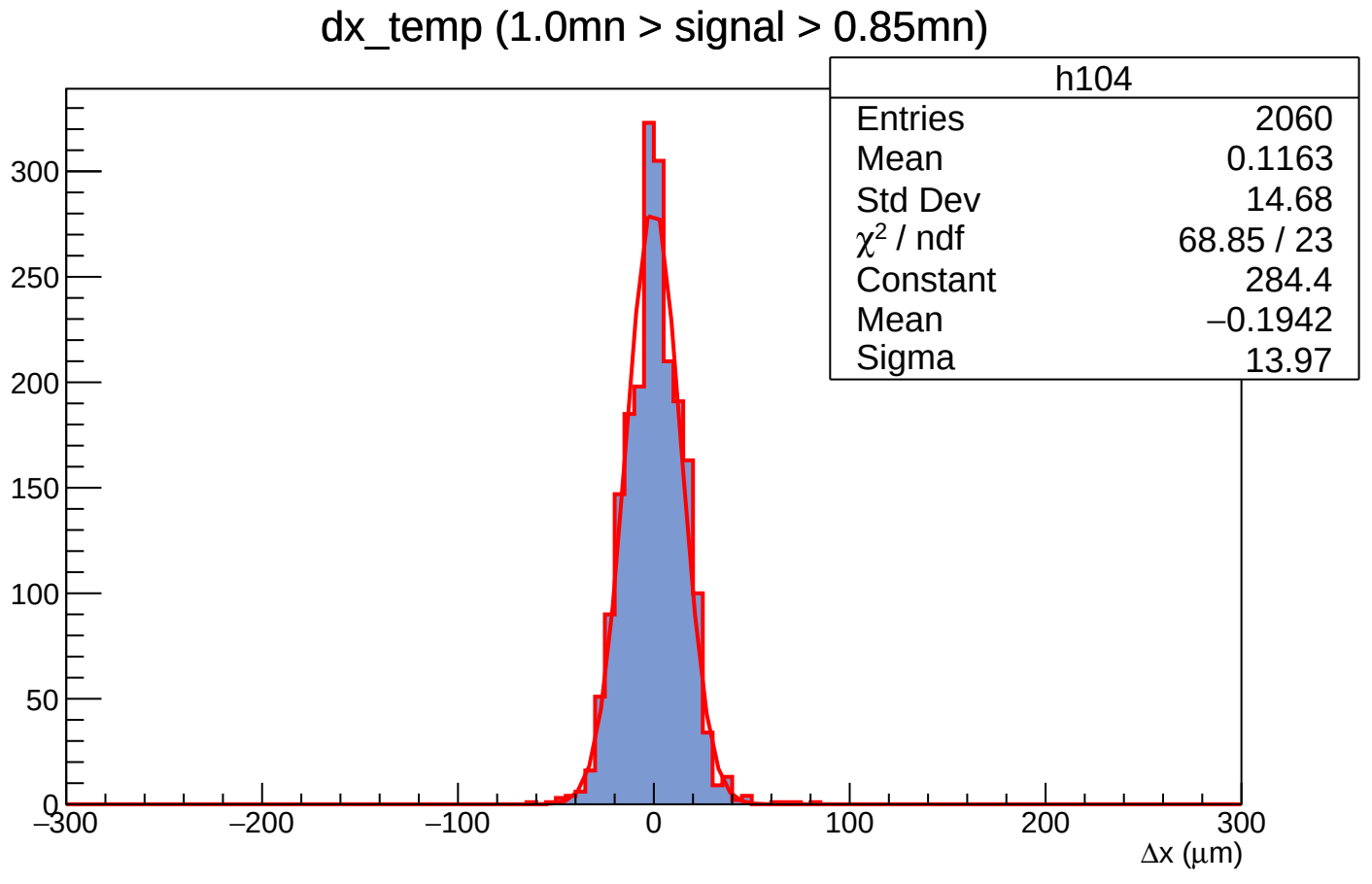

chi2 y_temp (1.0mn > signal > 0.85mn)
h209
Entries 2430
Mean 12.84
Std Dev 6.731
0
10
20
30
40
50
60
70
80
90
0
5
10
15
20
25
30
35
40
45

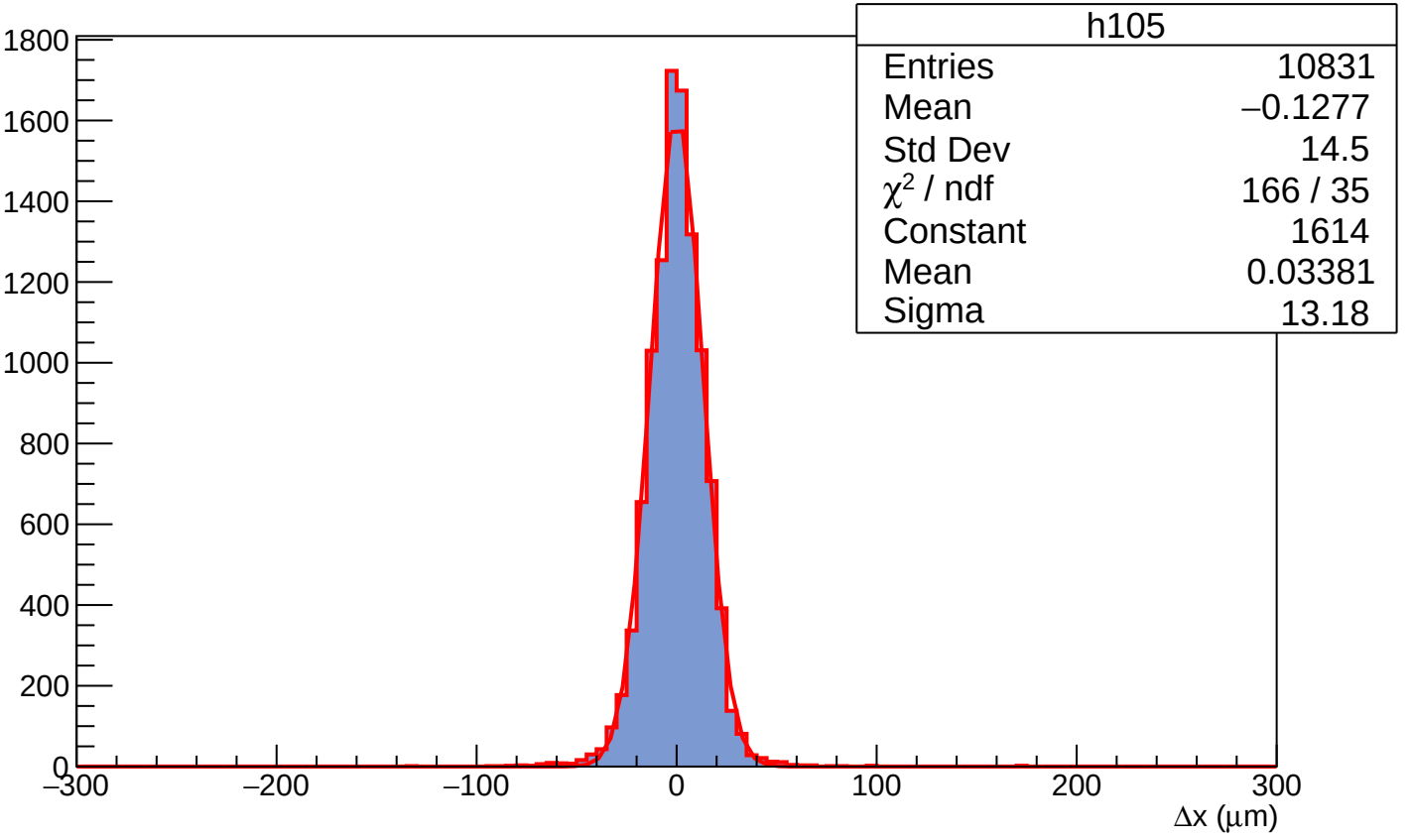

chi2 y_temp (0.85mn > signal)
h210
Entries 12265
Mean 22.2
Std Dev 13.7
120
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45

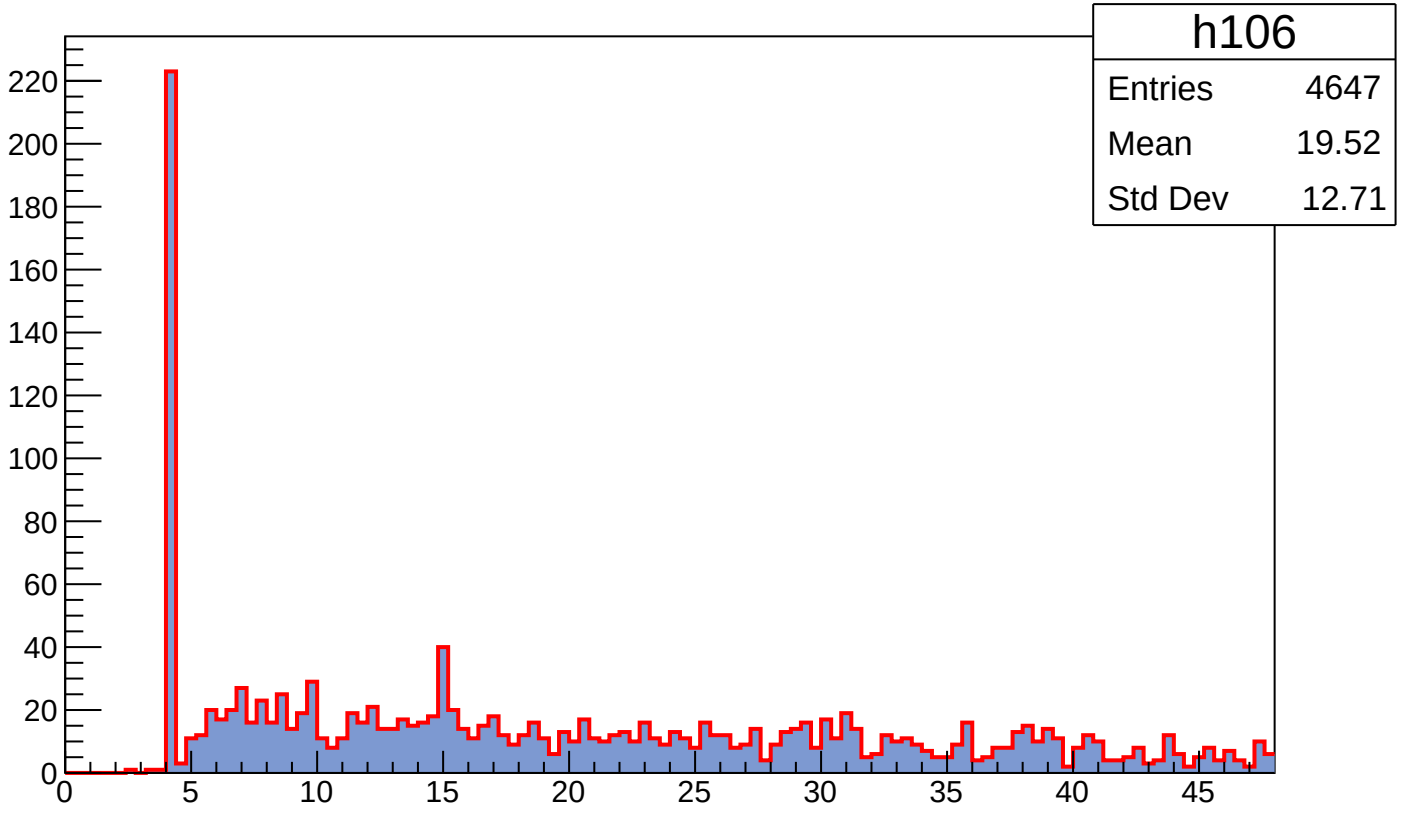

dx_temp (all sig)
h101
Entries 25353
Mean 0.03053
Std Dev 15.78
4000
3500
3000
2500
2000
1500
1000
500
0
–300
–200
–100
0
100
200
300
Δx (μm)

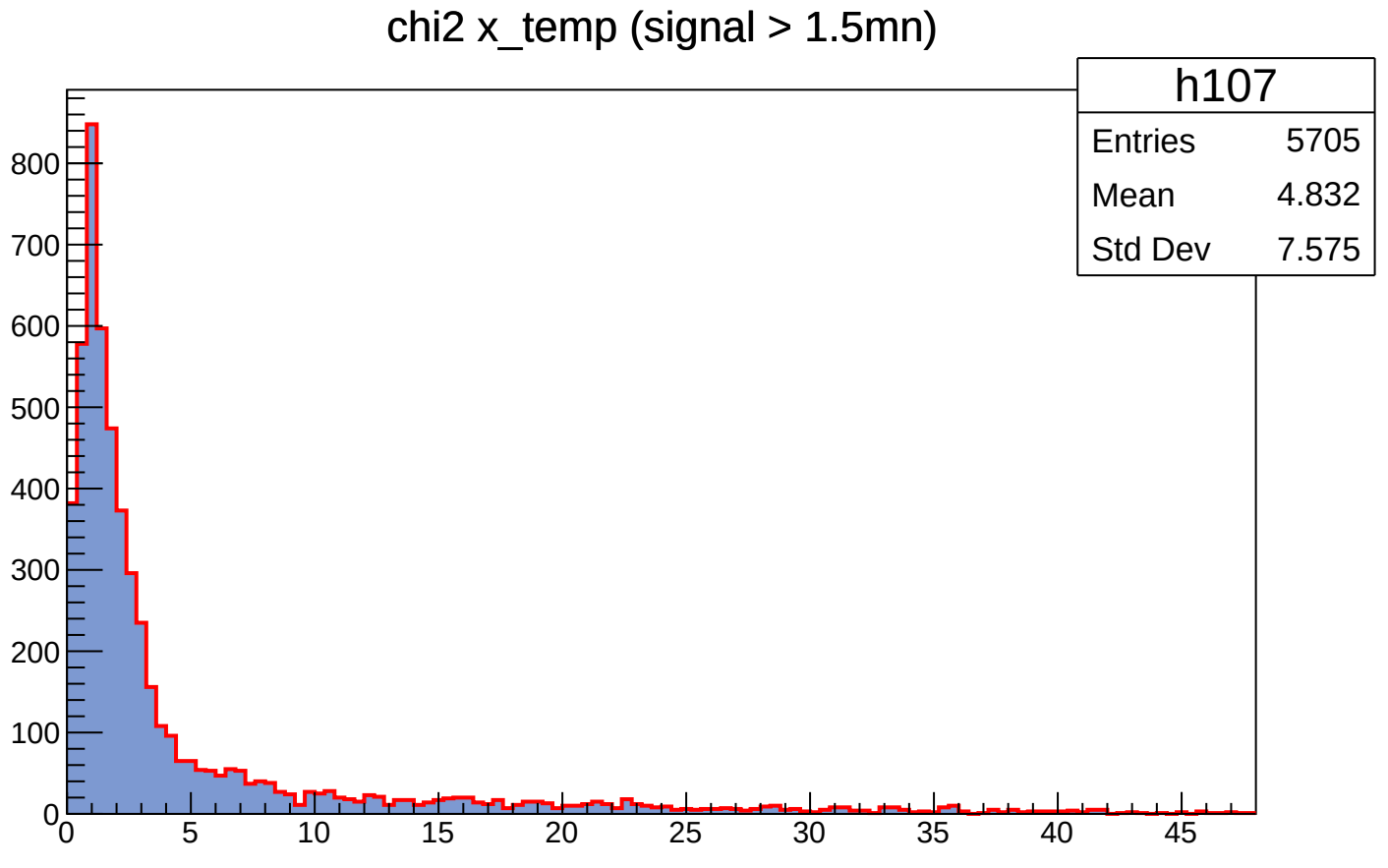

dx_temp (signal > 1.5mn)
h102
Entries 5705
Mean 0.3186
Std Dev 17.97
χ² / ndf 212.8 / 40
Constant 654.9
Mean –0.1532
Sigma 16.72
800
700
600
500
400
300
200
100
0
–300
–200
–100
0
100
200
300
Δx (μm)

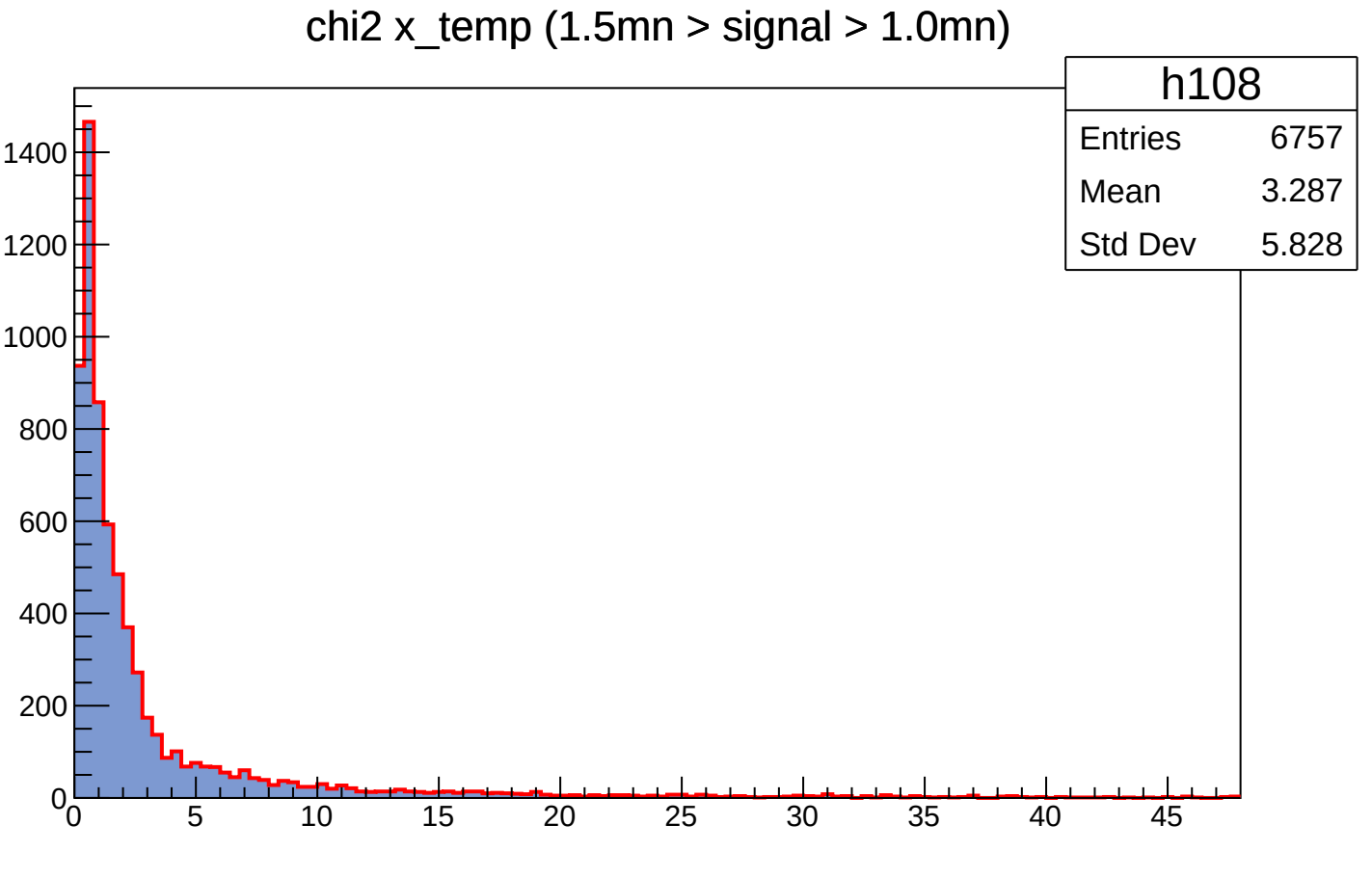

dx_temp (1.5mn > signal > 1.0mn)
h103
Entries 6757
Mean 0.01494
Std Dev 16.08
χ² / ndf 161.3 / 33
Constant 846.6
Mean –0.1167
Sigma 15.54
1000
800
600
400
200
0
–300
–200
–100
0
100
200
300
Δx (μm)

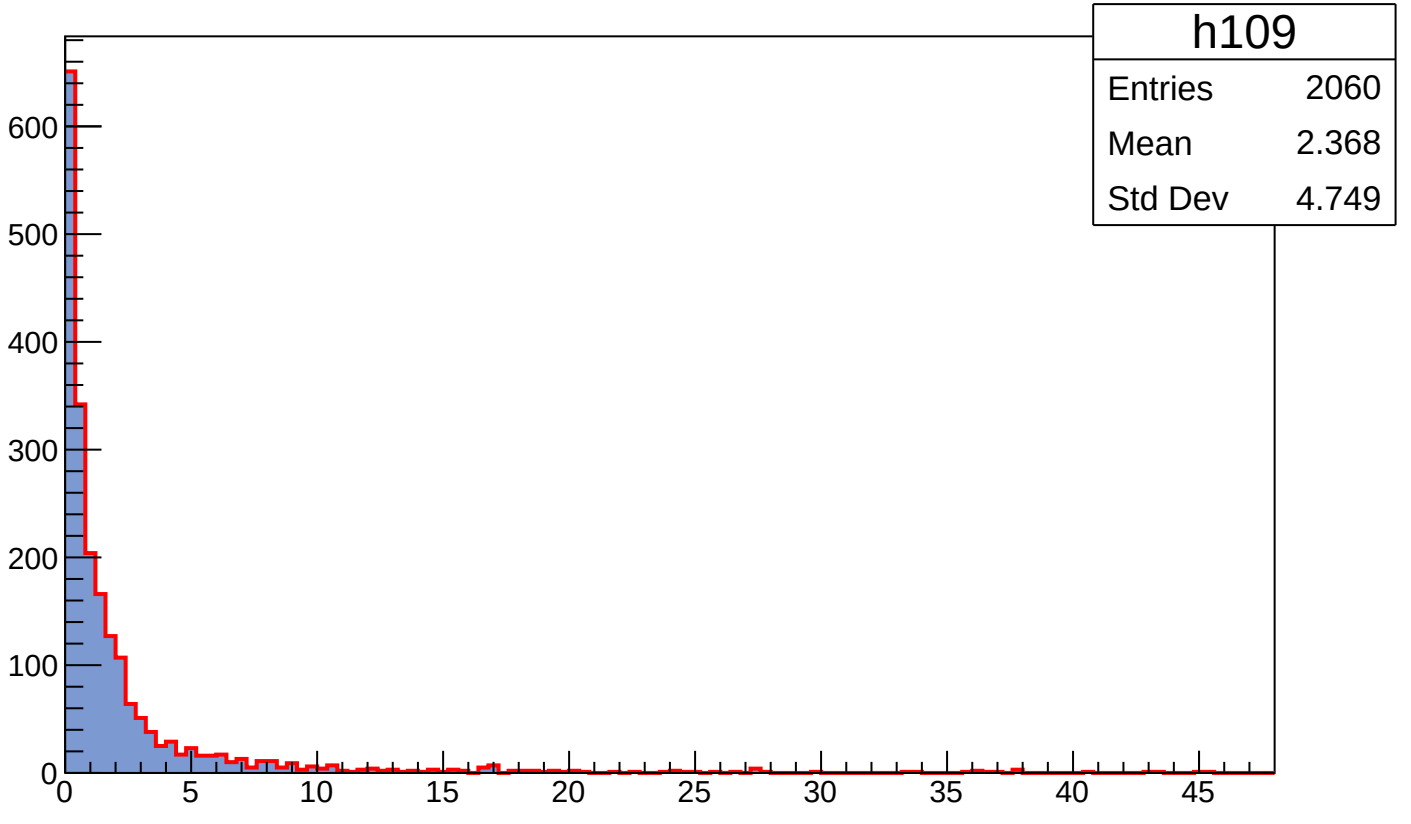

dx_temp (1.0mn > signal > 0.85mn)
h104
Entries 2060
Mean 0.1163
Std Dev 14.68
χ² / ndf 68.85 / 23
Constant 284.4
Mean −0.1942
Sigma 13.97
300
250
200
150
100
50
0
−300
−200
−100
0
100
200
300
Δx (μm)

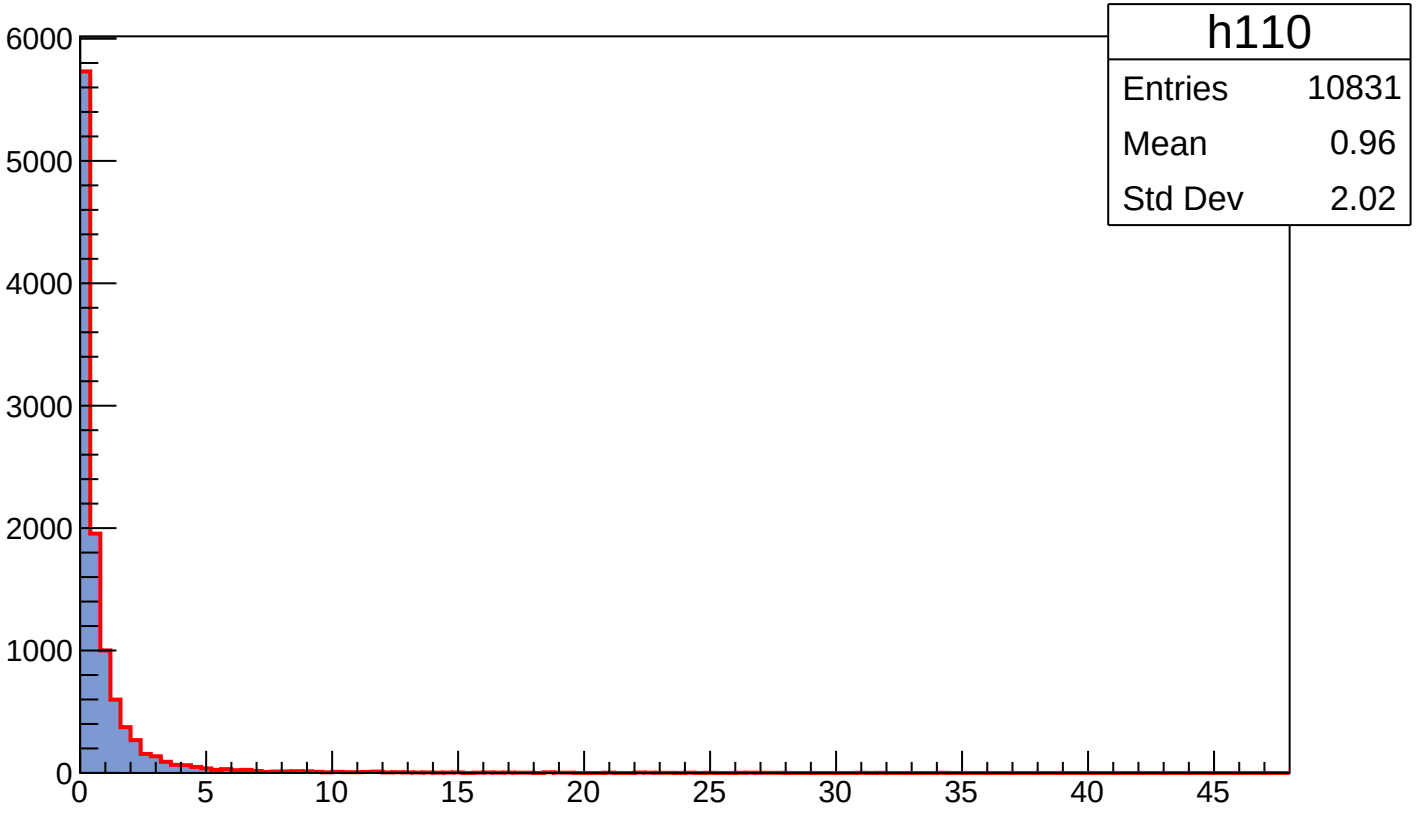

dx_temp (0.85mn > signal)
h105
Entries 10831
Mean −0.1277
Std Dev 14.5
χ² / ndf 166 / 35
Constant 1614
Mean 0.03381
Sigma 13.18
1800
1600
1400
1200
1000
800
600
400
200
0
−300
−200
−100
0
100
200
300
Δx (μm)

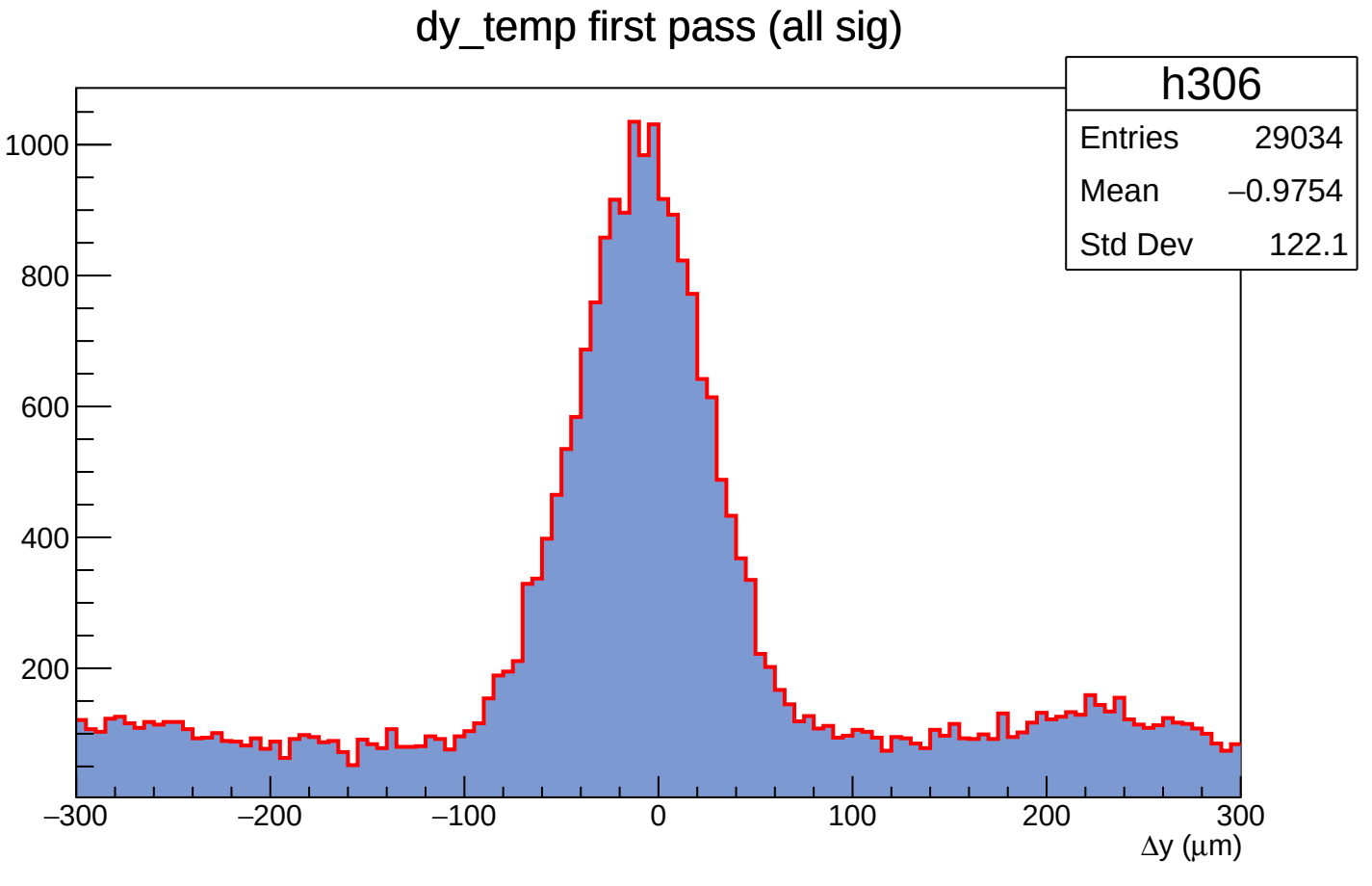

chi2 x_temp (single pix)
h106
Entries 4647
Mean 19.52
Std Dev 12.71
0
20
40
60
80
100
120
140
160
180
200
220
0
5
10
15
20
25
30
35
40
45

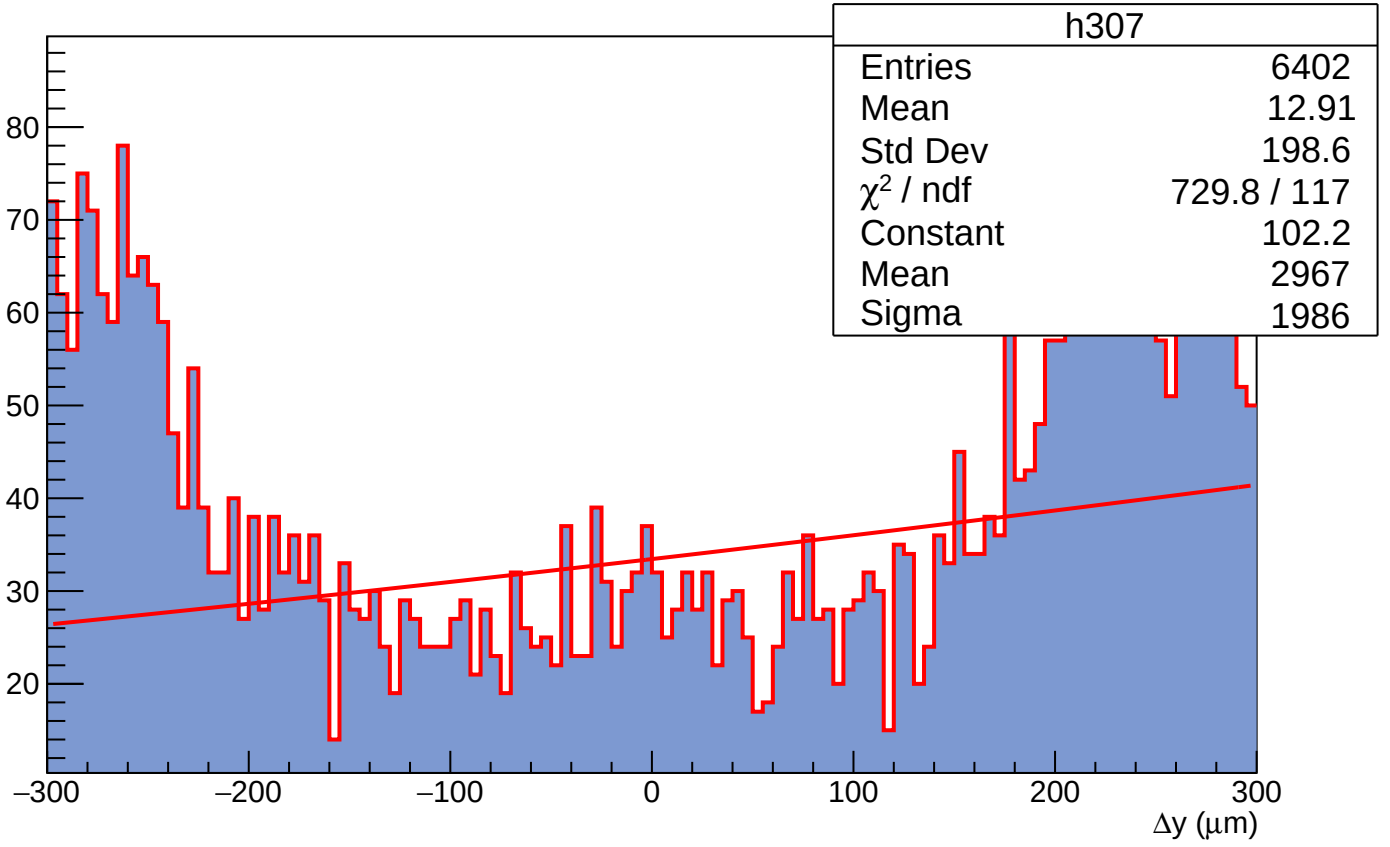

chi2 x_temp (signal > 1.5mn)
h107
Entries 5705
Mean 4.832
Std Dev 7.575
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
30
35
40
45

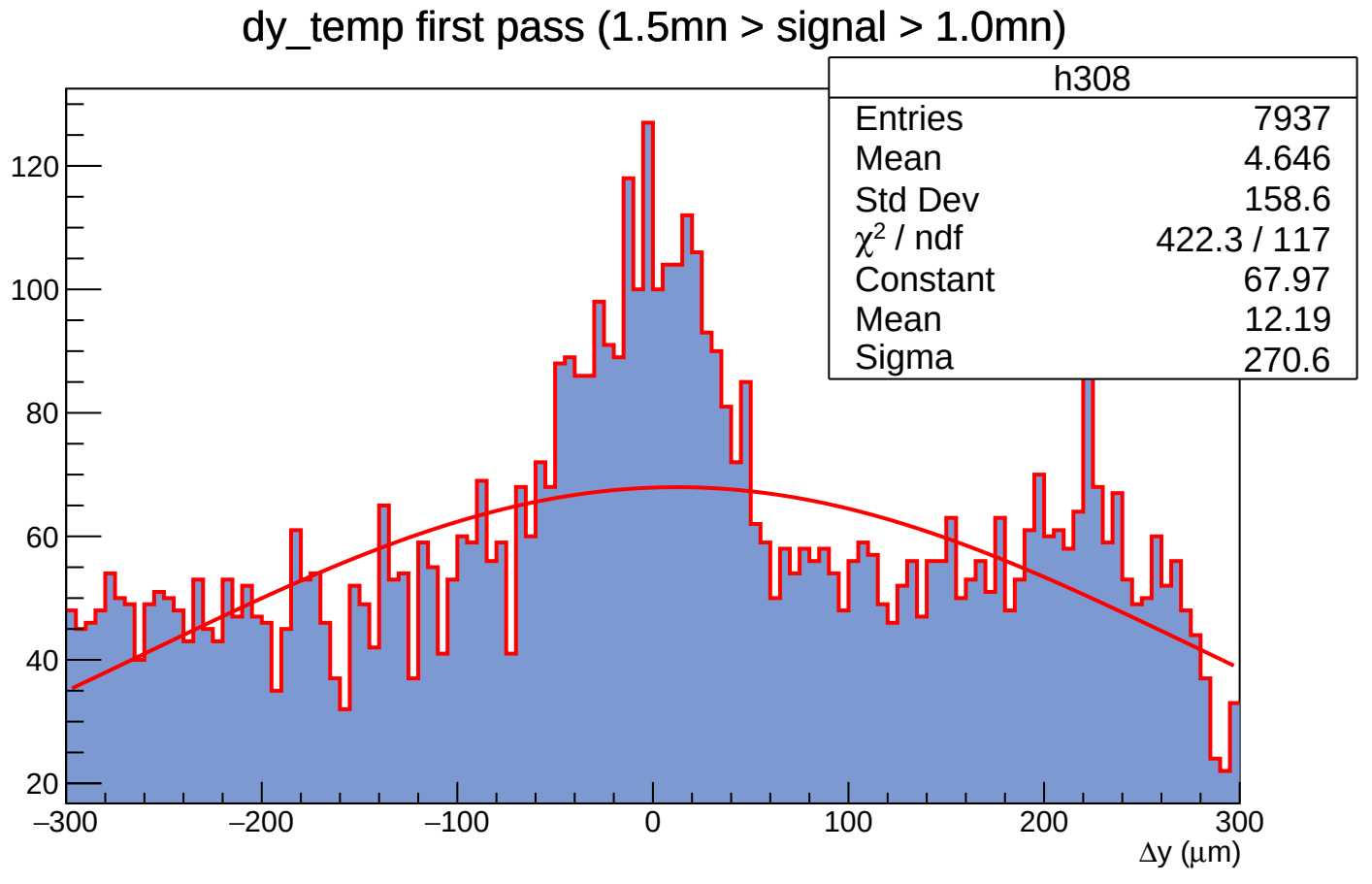

chi2 x_temp (1.5mn > signal > 1.0mn)
h108
Entries 6757
Mean 3.287
Std Dev 5.828
1400
1200
1000
800
600
400
200
0
0
5
10
15
20
25
30
35
40
45

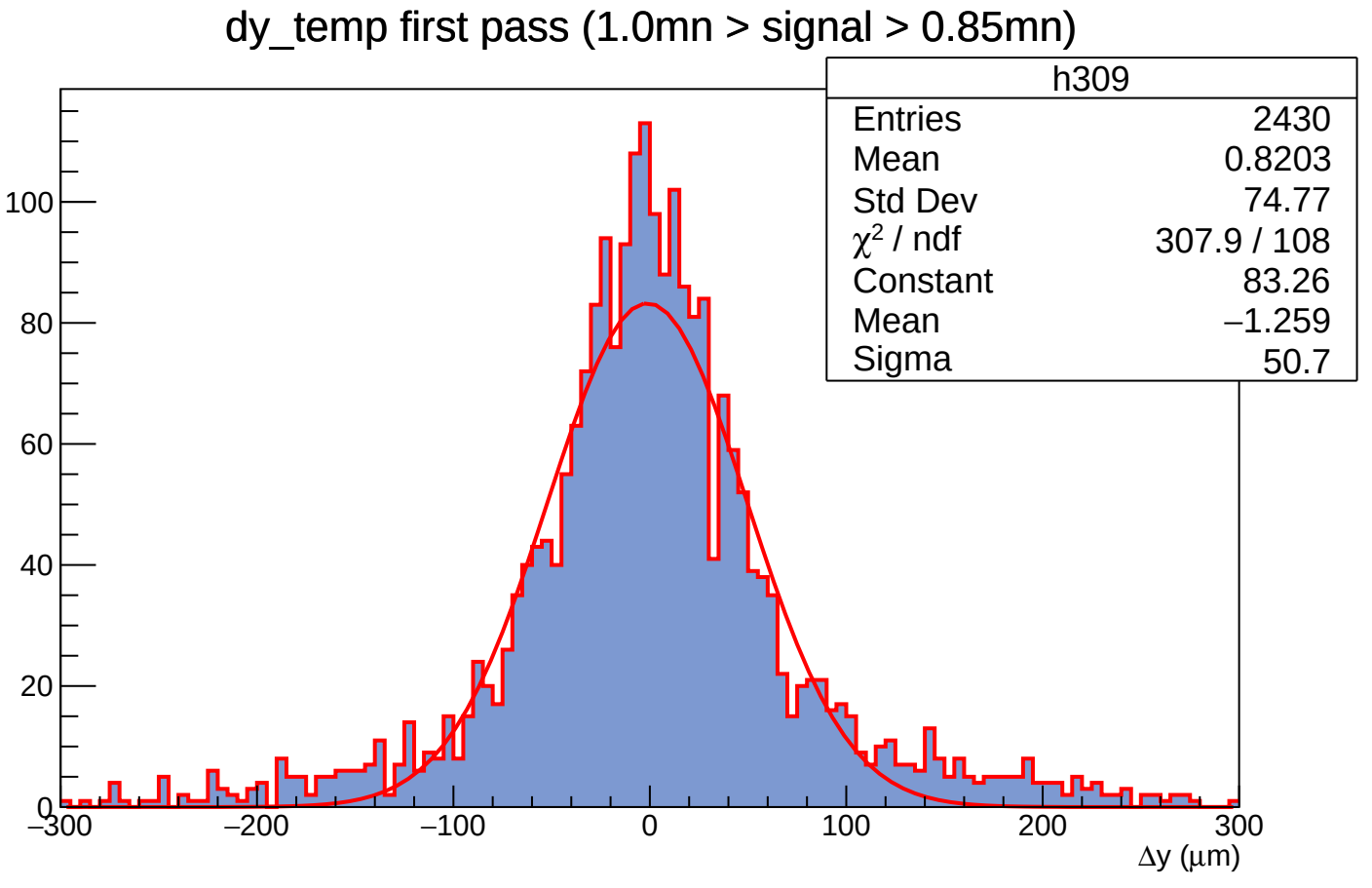

chi2 x_temp (1.0mn > signal > 0.85mn)
h109
Entries 2060
Mean 2.368
Std Dev 4.749
600
500
400
300
200
100
0
0
5
10
15
20
25
30
35
40
45

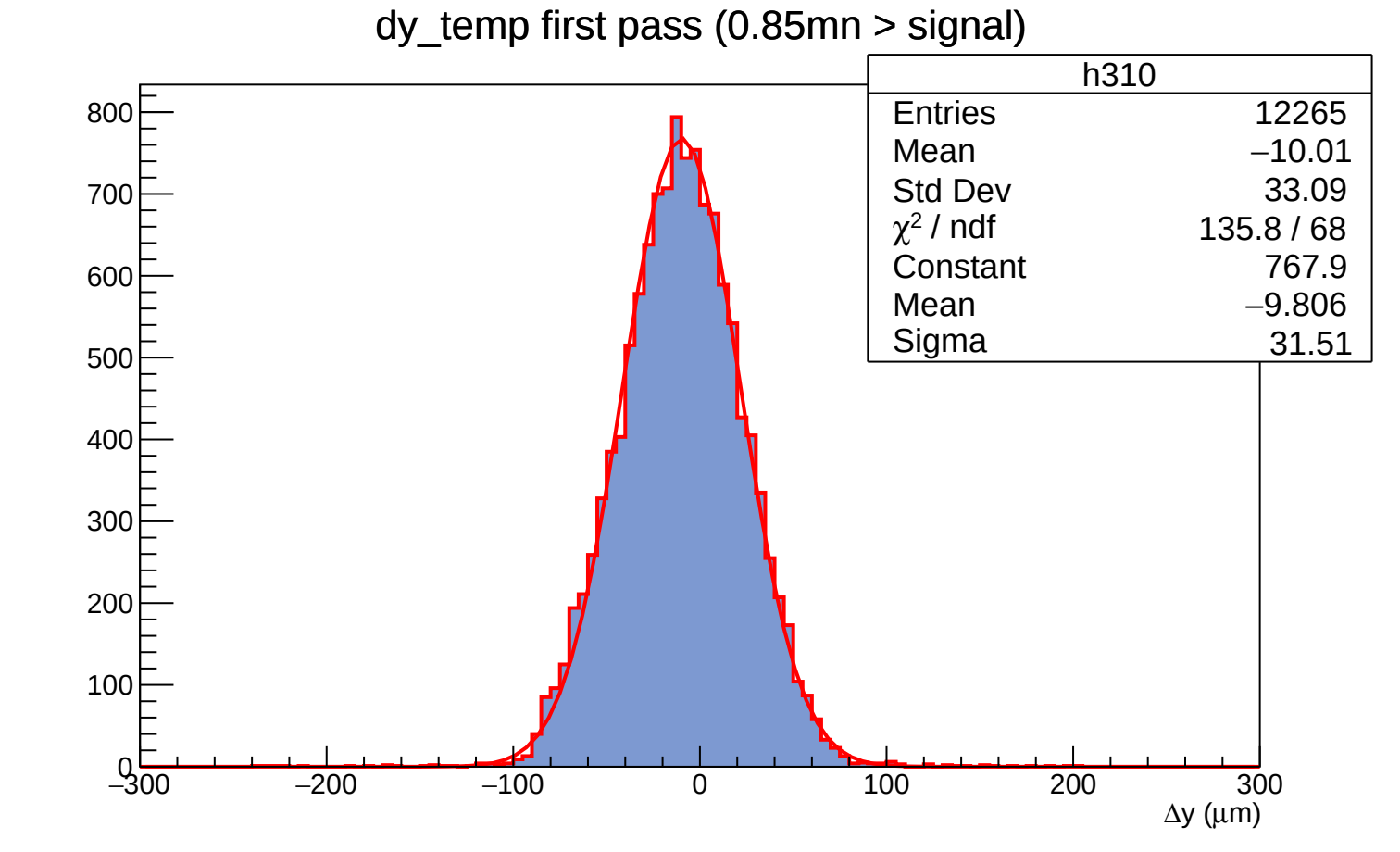

chi2 x_temp (0.85mn > signal)
h110
Entries 10831
Mean 0.96
Std Dev 2.02
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
45

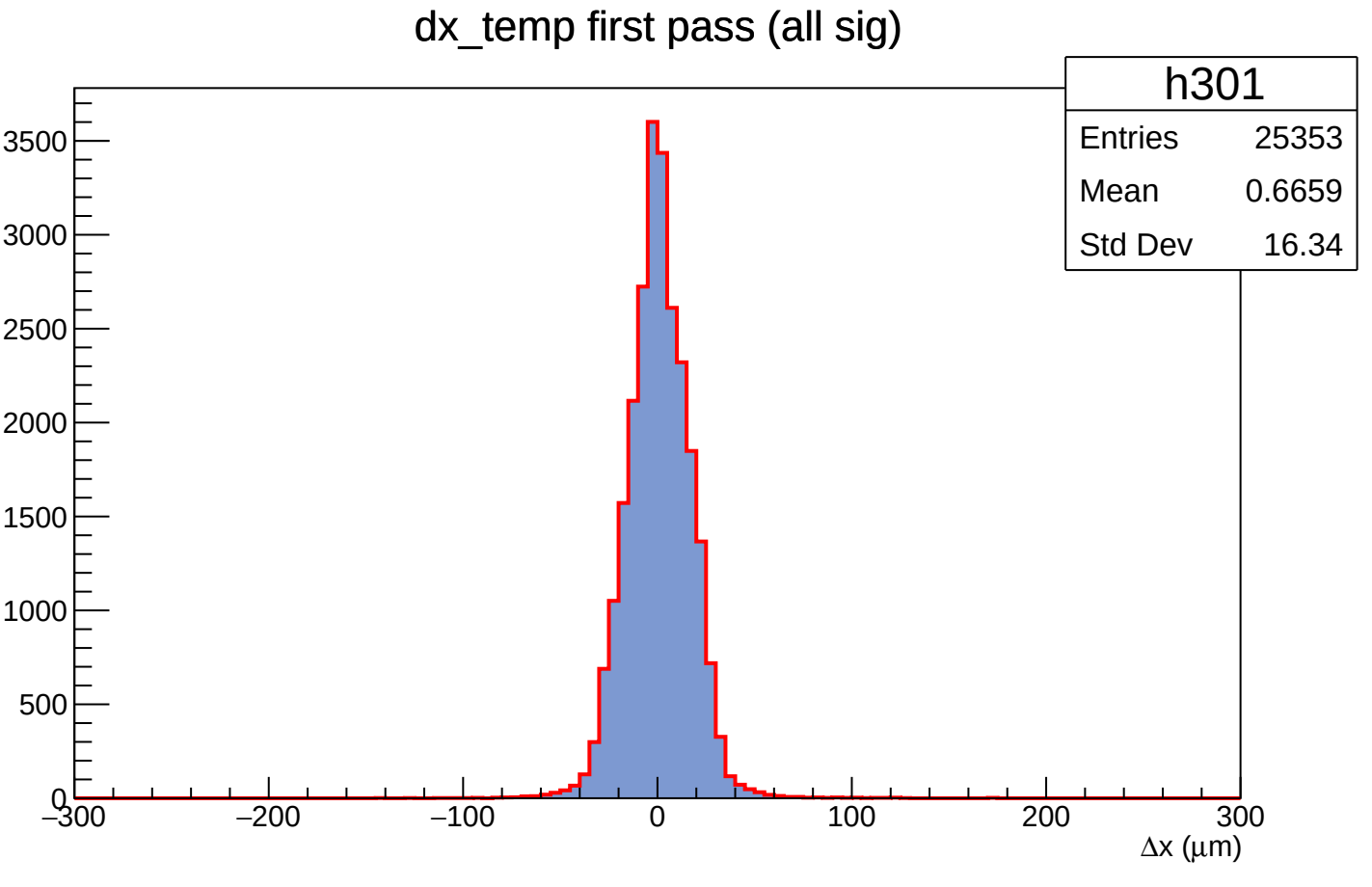

dy_temp first pass (all sig)
h306
Entries 29034
Mean –0.9754
Std Dev 122.1
1000
800
600
400
200
–300
–200
–100
0
100
200
300
Δy (μm)

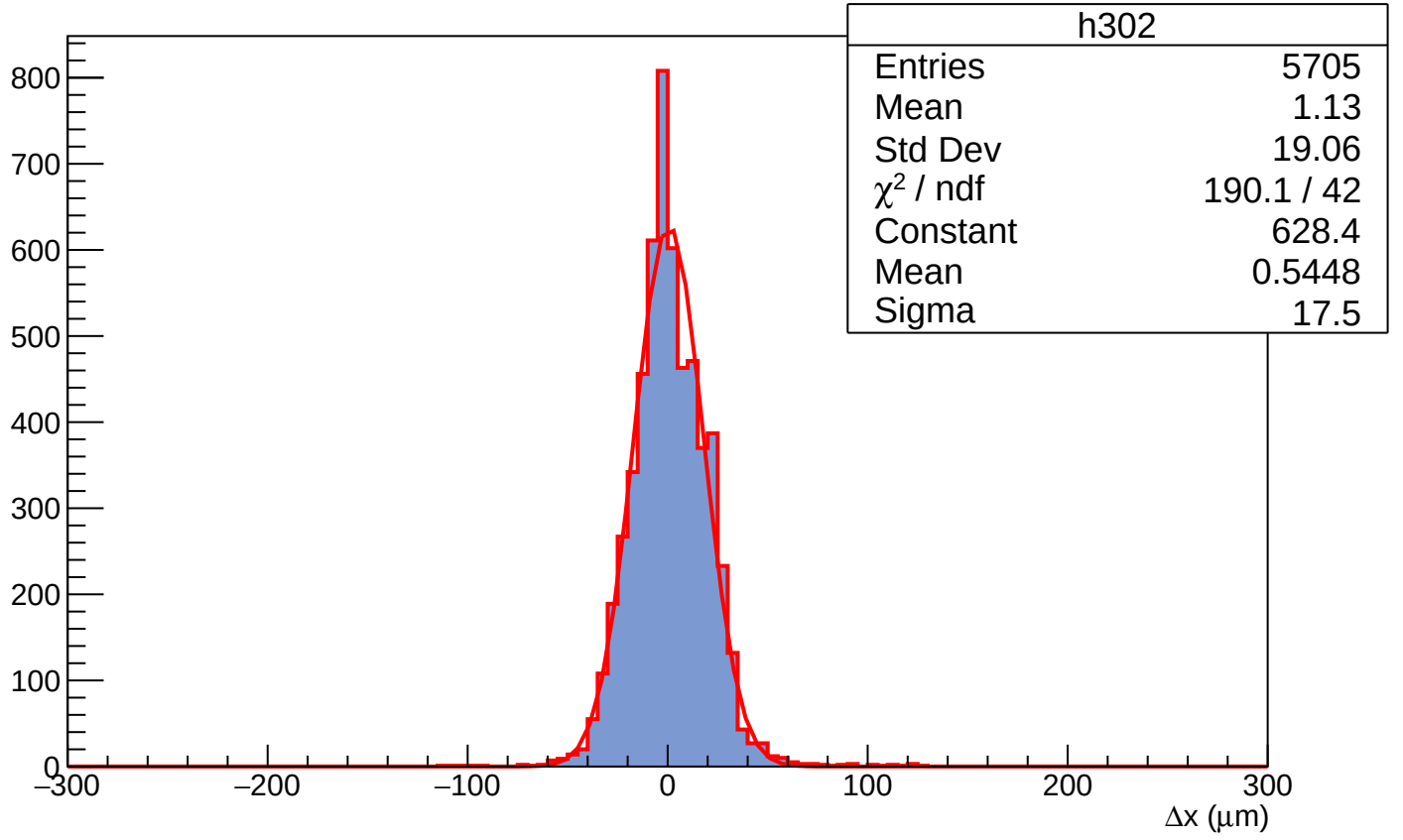

dy_temp first pass (signal > 1.5mn)
h307
Entries 6402
Mean 12.91
Std Dev 198.6
χ² / ndf 729.8 / 117
Constant 102.2
Mean 2967
Sigma 1986
80
70
60
50
40
30
20
–300
–200
–100
0
100
200
300
Δy (μm)

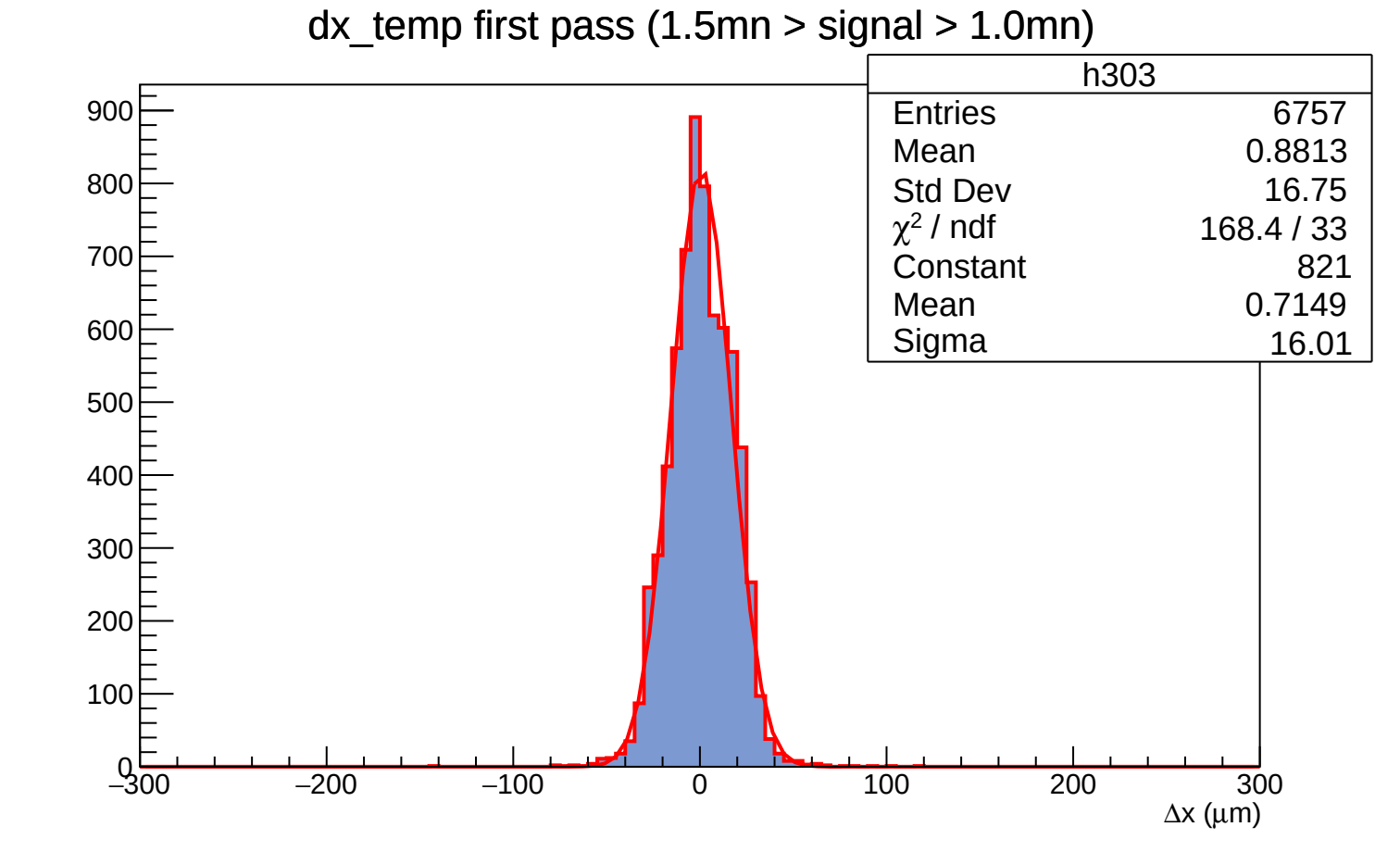

dy_temp first pass (1.5mn > signal > 1.0mn)
h308
Entries 7937
Mean 4.646
Std Dev 158.6
χ² / ndf 422.3 / 117
Constant 67.97
Mean 12.19
Sigma 270.6
120
100
80
60
40
20
–300
–200
–100
0
100
200
300
Δy (μm)

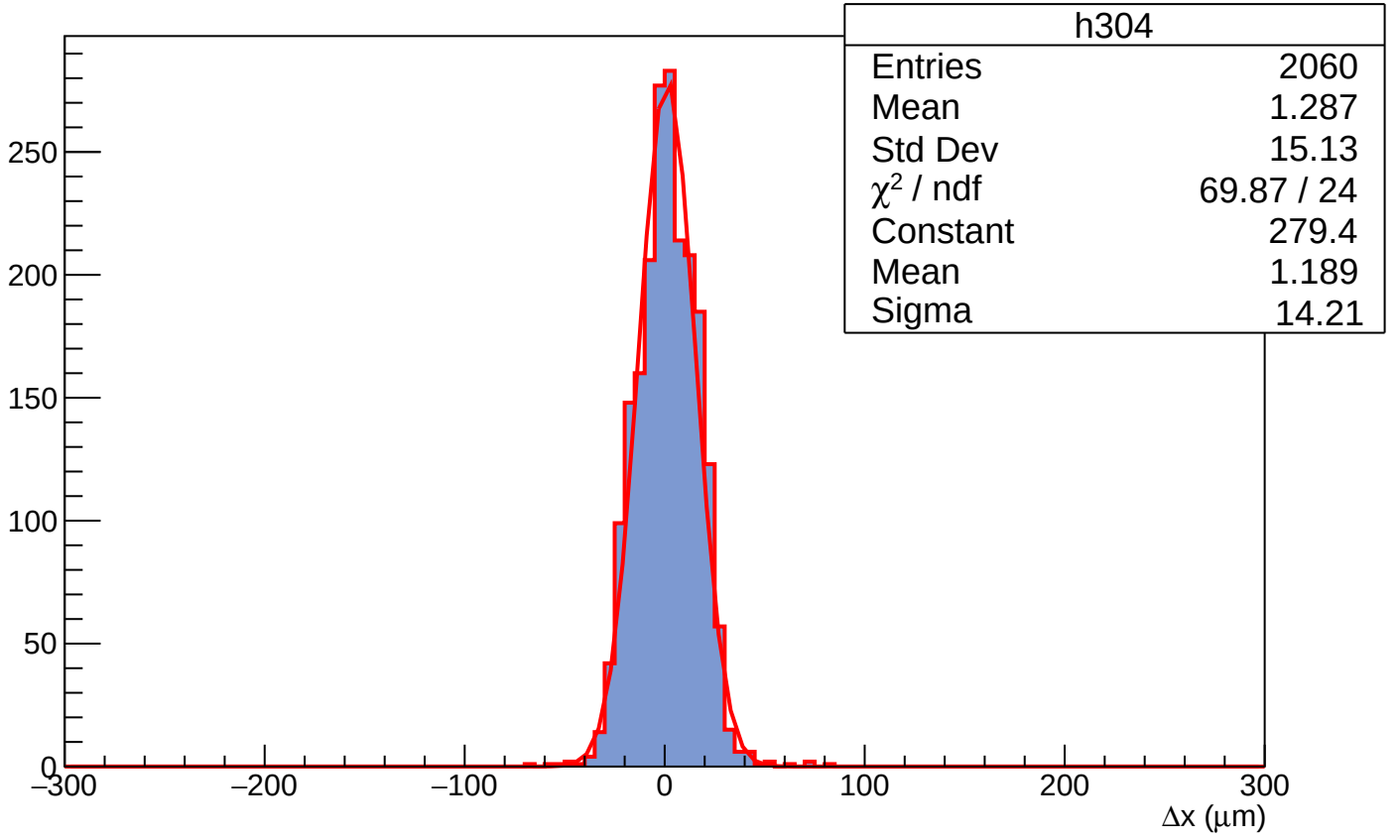

dy_temp first pass (1.0mn > signal > 0.85mn)
h309
Entries 2430
Mean 0.8203
Std Dev 74.77
χ² / ndf 307.9 / 108
Constant 83.26
Mean −1.259
Sigma 50.7
100
80
60
40
20
0
−300
−200
−100
0
100
200
300
Δy (μm)

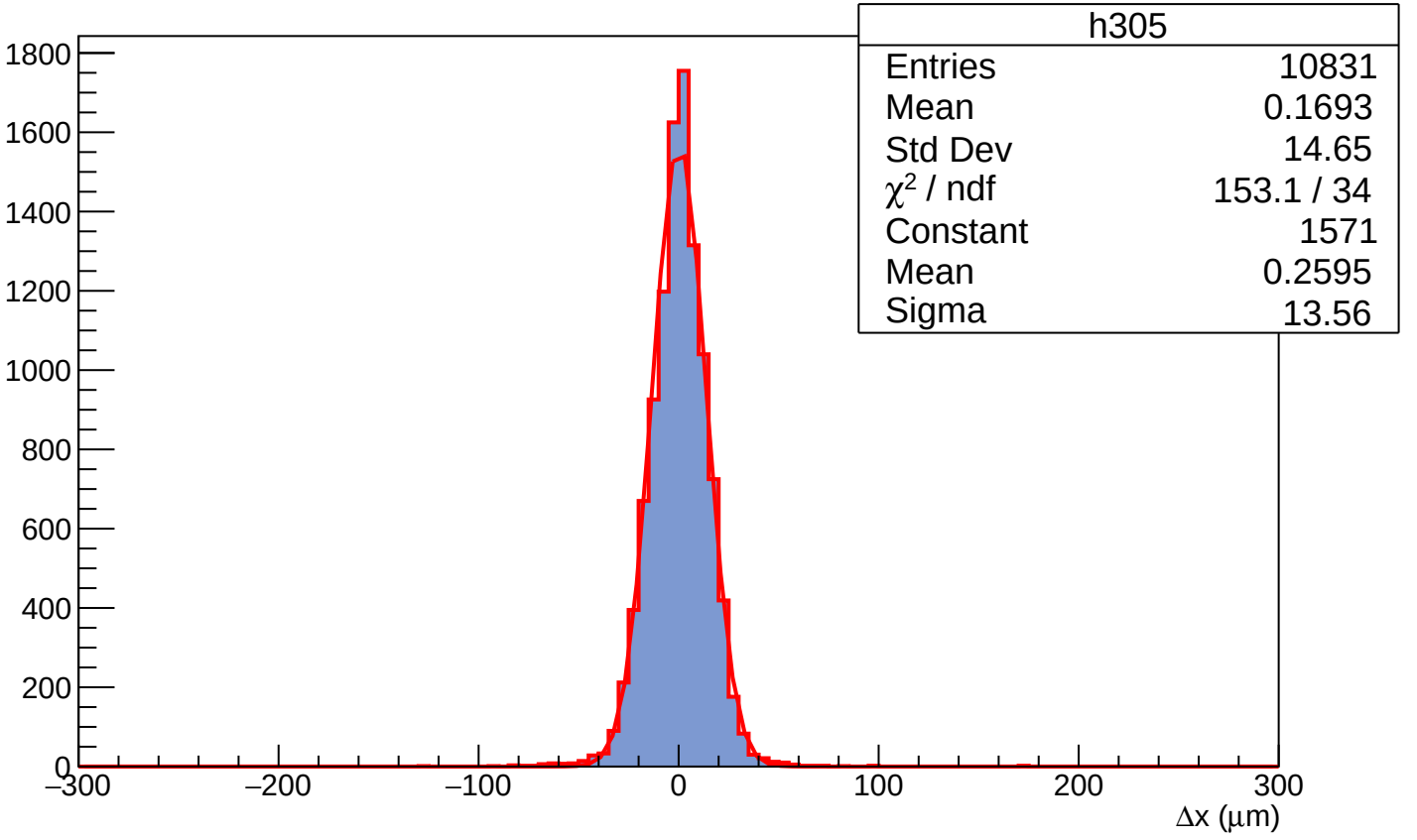

dy_temp first pass (0.85mn > signal)
h310
Entries 12265
Mean −10.01
Std Dev 33.09
χ² / ndf 135.8 / 68
Constant 767.9
Mean −9.806
Sigma 31.51
800
700
600
500
400
300
200
100
0
−300
−200
−100
0
100
200
300
Δy (μm)

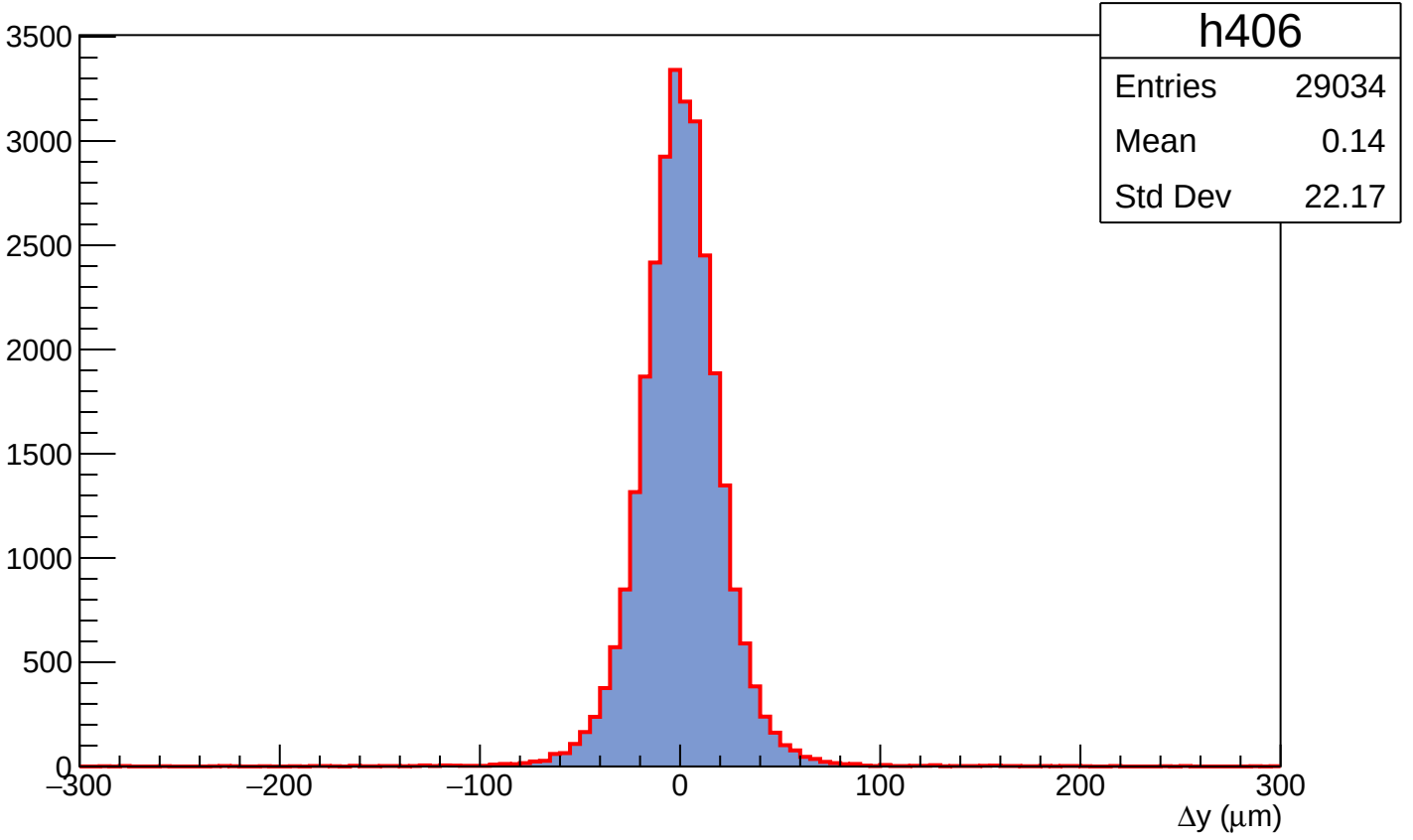

dx_temp first pass (all sig)
h301
Entries 25353
Mean 0.6659
Std Dev 16.34
3500
3000
2500
2000
1500
1000
500
0
–300
–200
–100
0
100
200
300
Δx (μm)

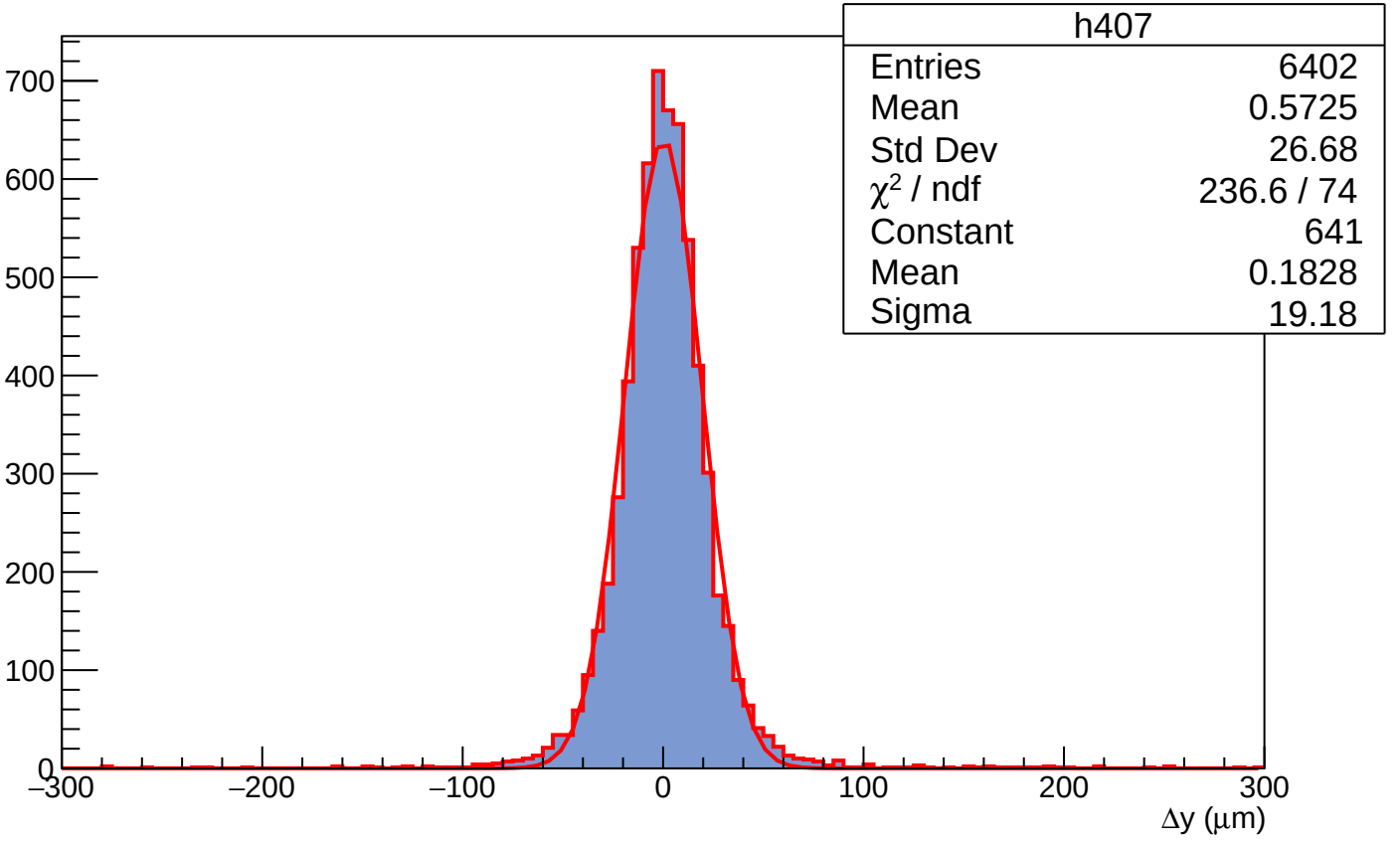

dx_temp first pass (signal > 1.5mn)
h302
Entries 5705
Mean 1.13
Std Dev 19.06
χ² / ndf 190.1 / 42
Constant 628.4
Mean 0.5448
Sigma 17.5
800
700
600
500
400
300
200
100
0
–300
–200
–100
0
100
200
300
Δx (μm)

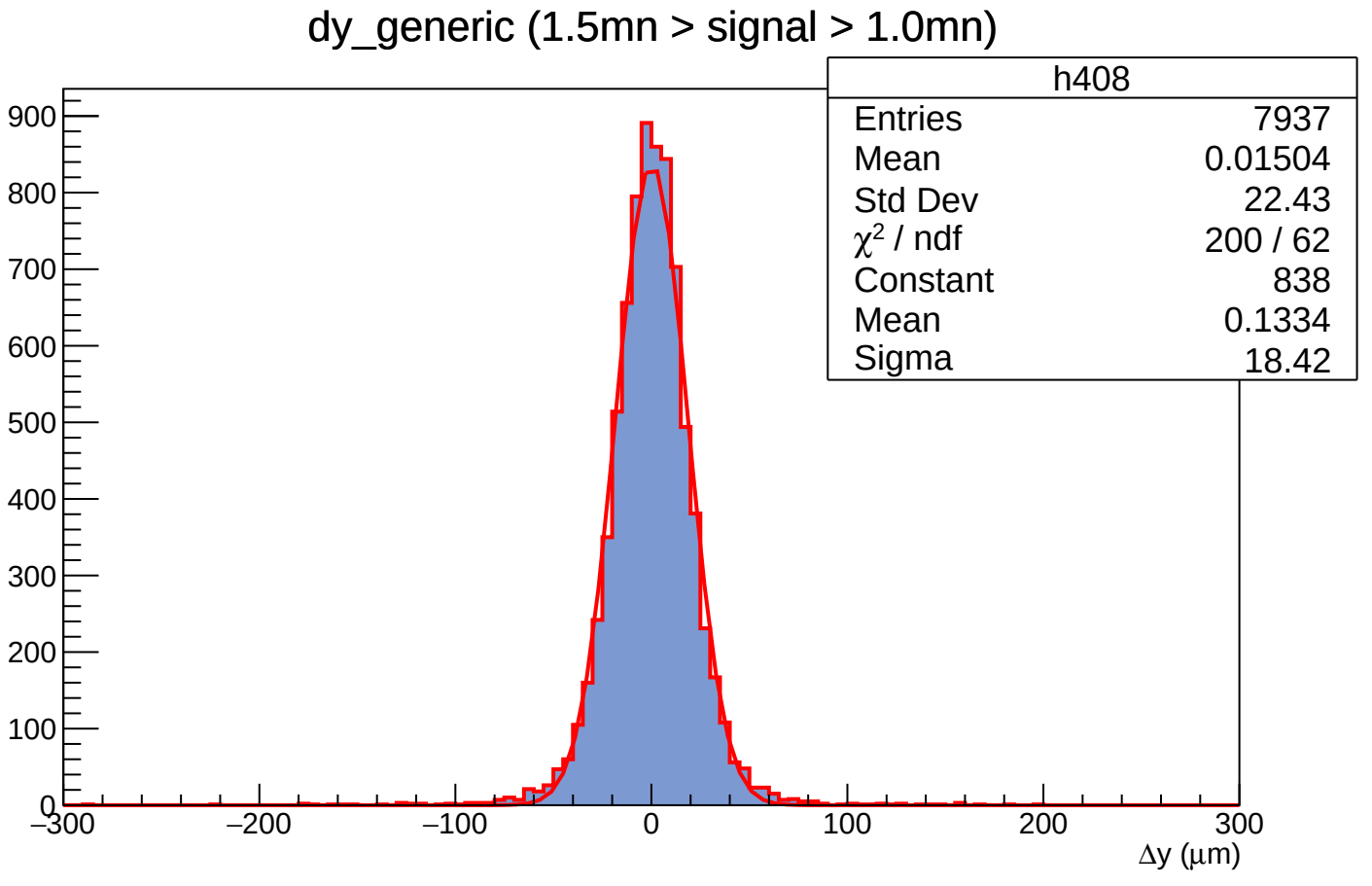

dx_temp first pass (1.5mn > signal > 1.0mn)
h303
Entries 6757
Mean 0.8813
Std Dev 16.75
χ² / ndf 168.4 / 33
Constant 821
Mean 0.7149
Sigma 16.01
900
800
700
600
500
400
300
200
100
0
–300
–200
–100
0
100
200
300
Δx (μm)

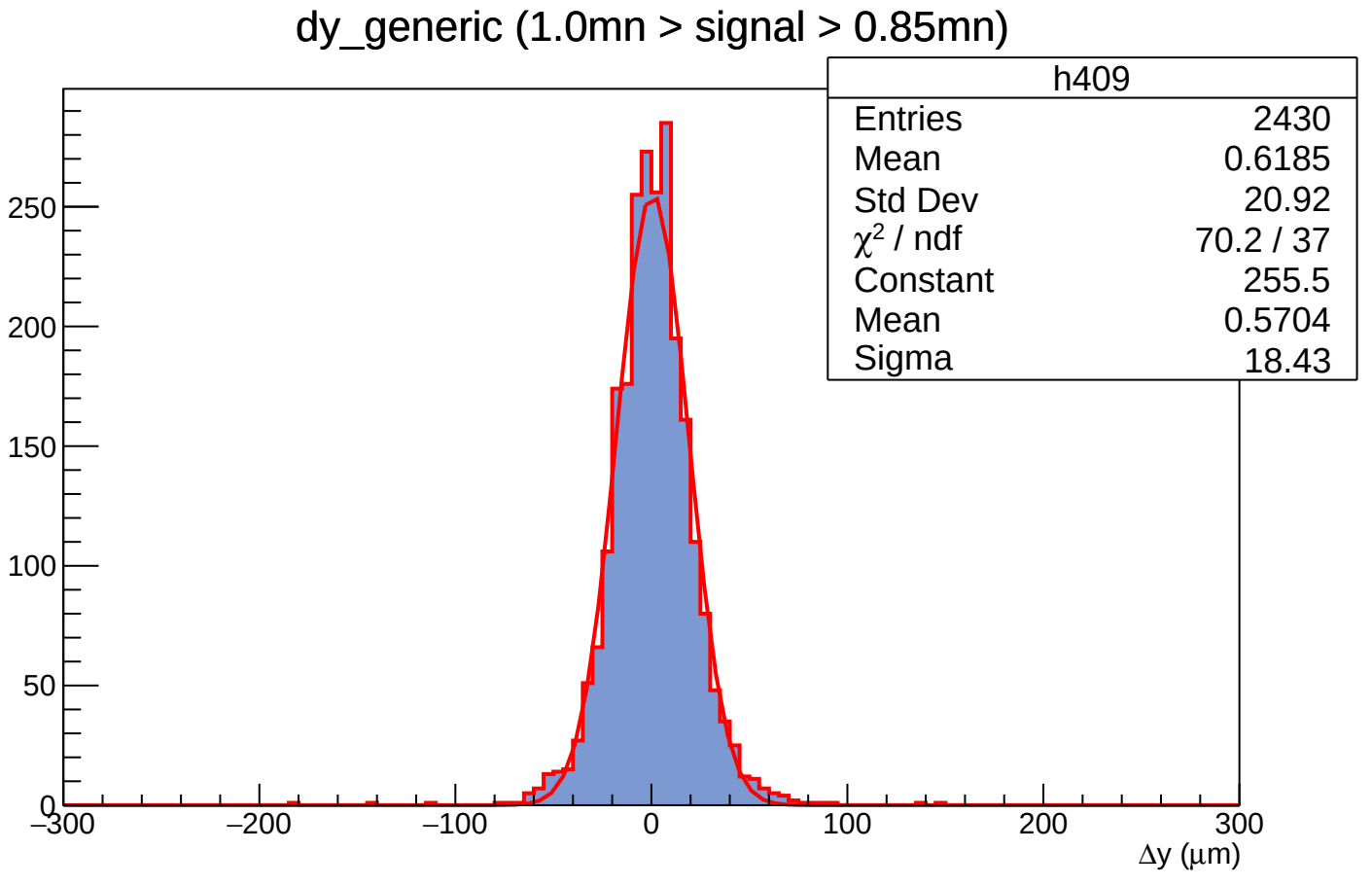

dx_temp first pass (1.0mn > signal > 0.85mn)
h304
Entries 2060
Mean 1.287
Std Dev 15.13
χ² / ndf 69.87 / 24
Constant 279.4
Mean 1.189
Sigma 14.21
250
200
150
100
50
0
−300
−200
−100
0
100
200
300
Δx (μm)

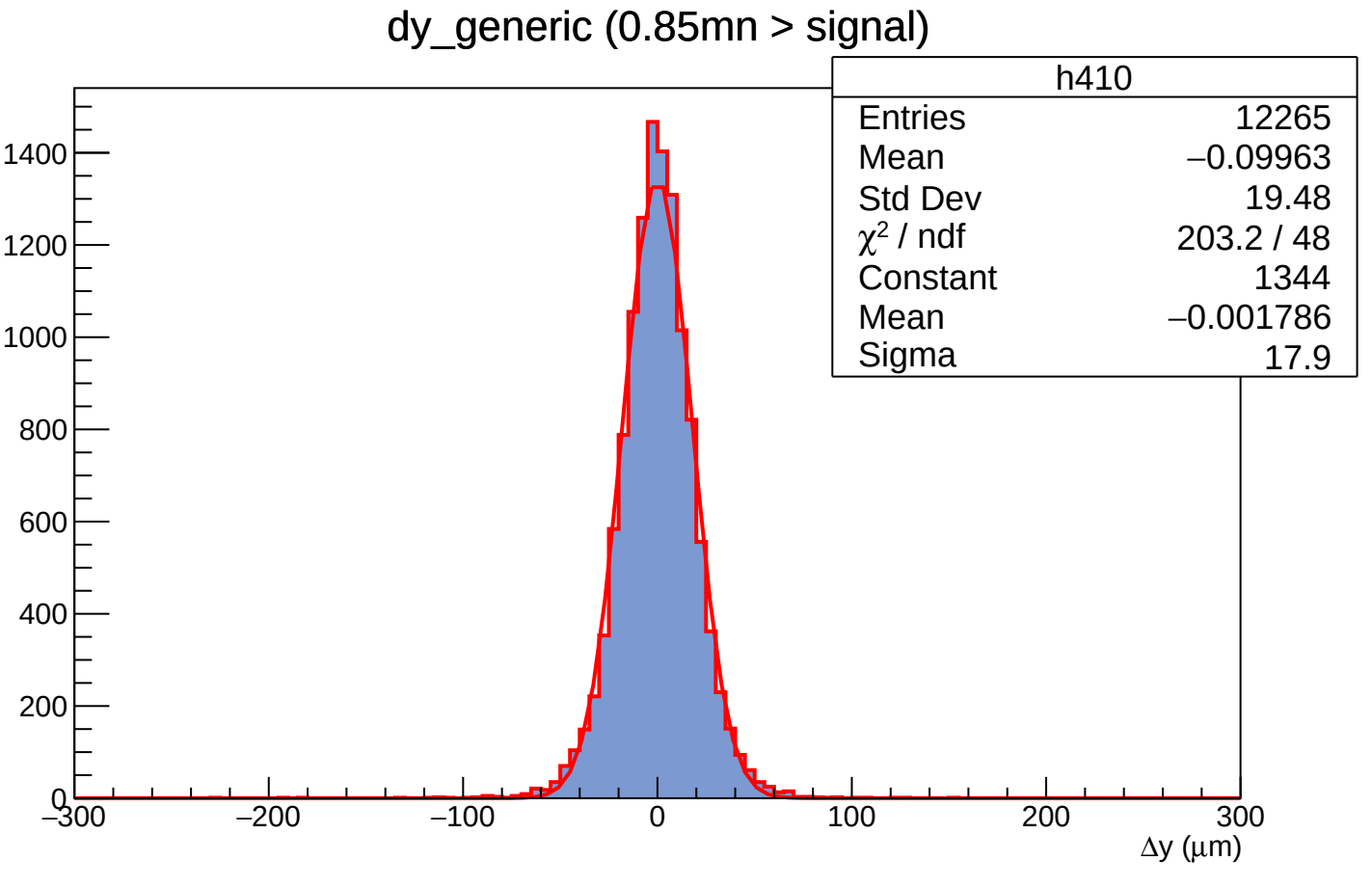

dx_temp first pass (0.85mn > signal)
h305
Entries 10831
Mean 0.1693
Std Dev 14.65
χ² / ndf 153.1 / 34
Constant 1571
Mean 0.2595
Sigma 13.56
1800
1600
1400
1200
1000
800
600
400
200
0
–300
–200
–100
0
100
200
300
Δx (μm)

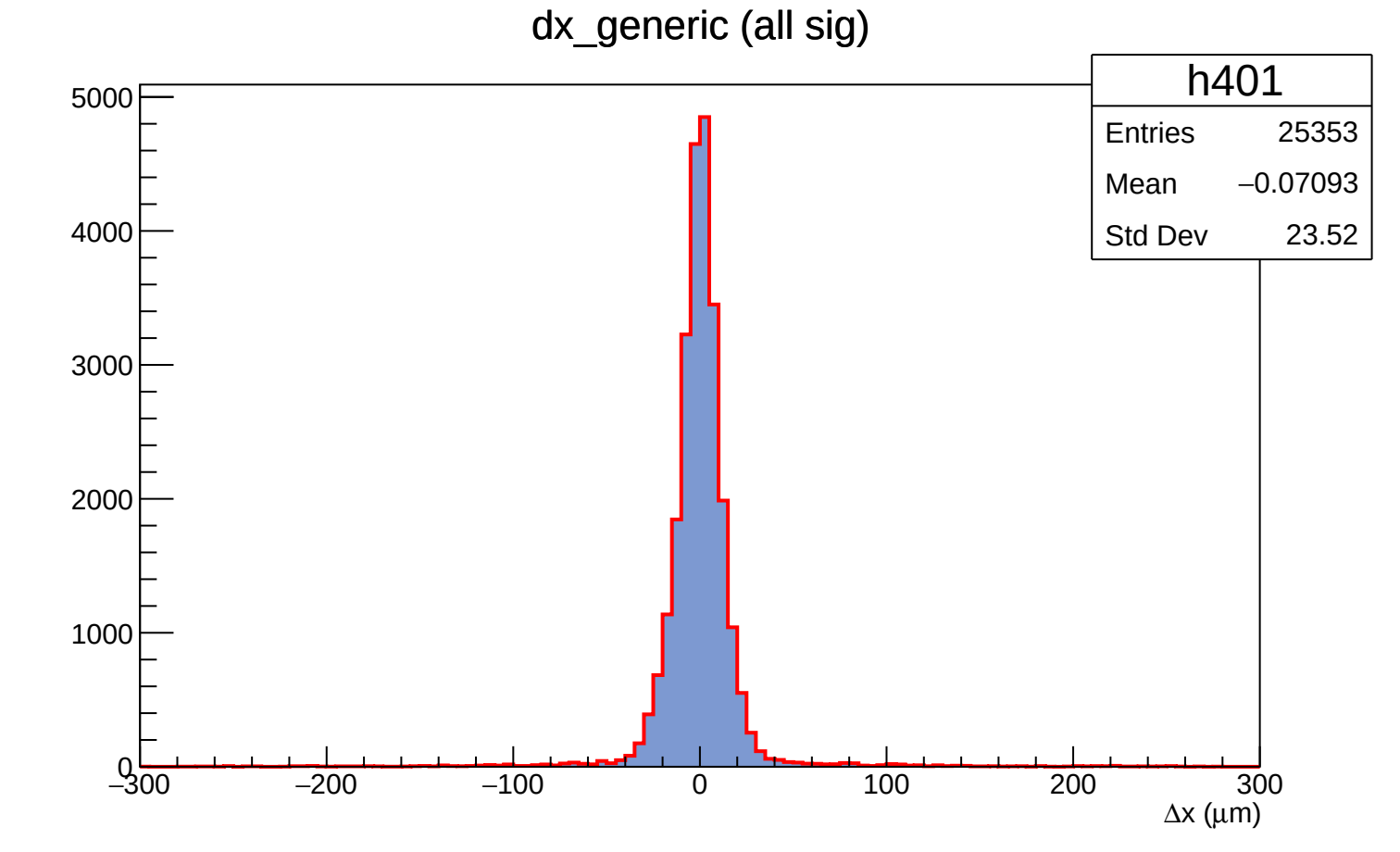

dy_generic (all sig)
h406
Entries 29034
Mean 0.14
Std Dev 22.17
3500
3000
2500
2000
1500
1000
500
0
–300
–200
–100
0
100
200
300
Δy (μm)

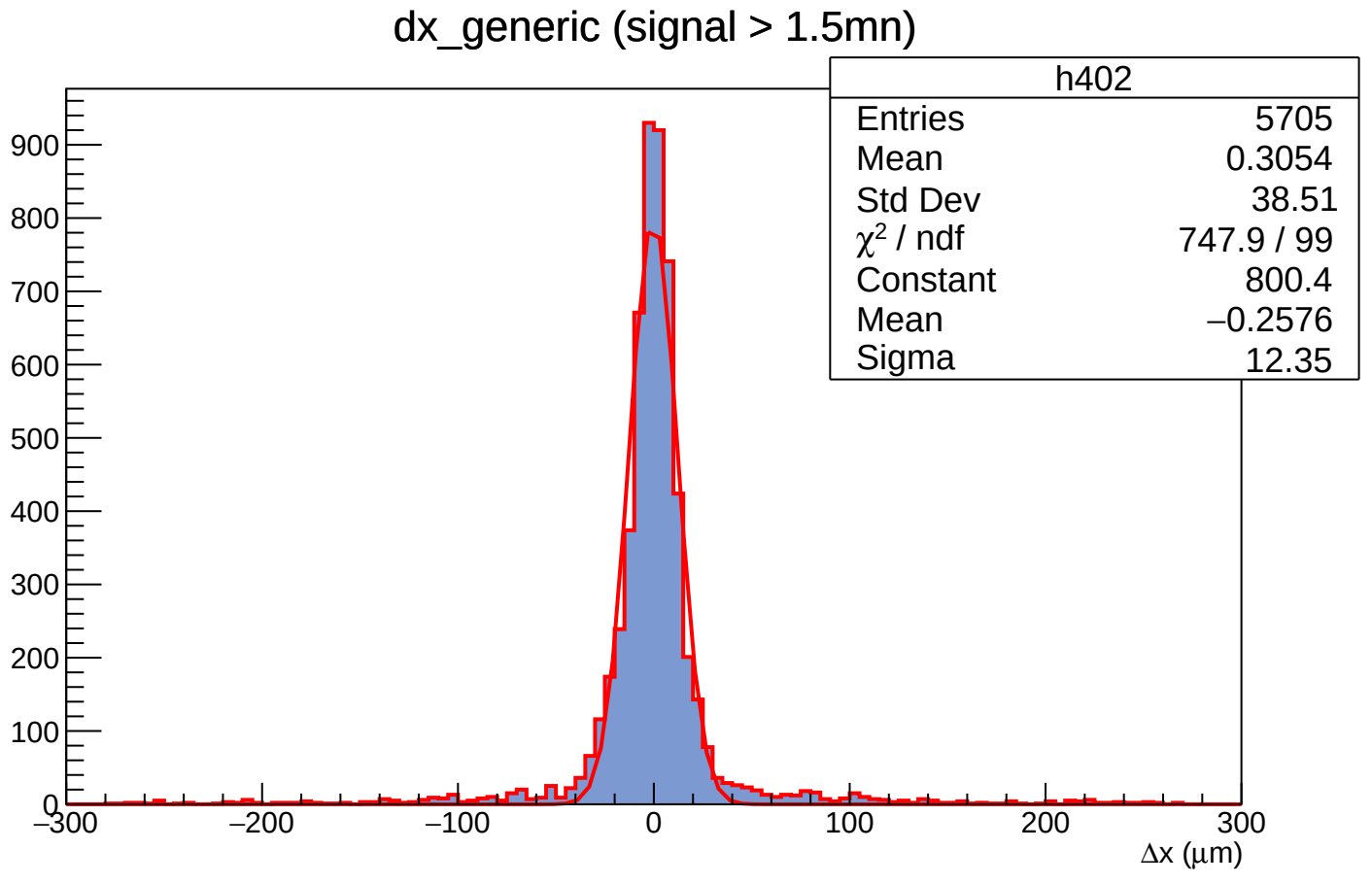

dy_generic (signal > 1.5mn)
h407
Entries 6402
Mean 0.5725
Std Dev 26.68
χ² / ndf 236.6 / 74
Constant 641
Mean 0.1828
Sigma 19.18
700
600
500
400
300
200
100
0
−300
−200
−100
0
100
200
300
Δy (μm)

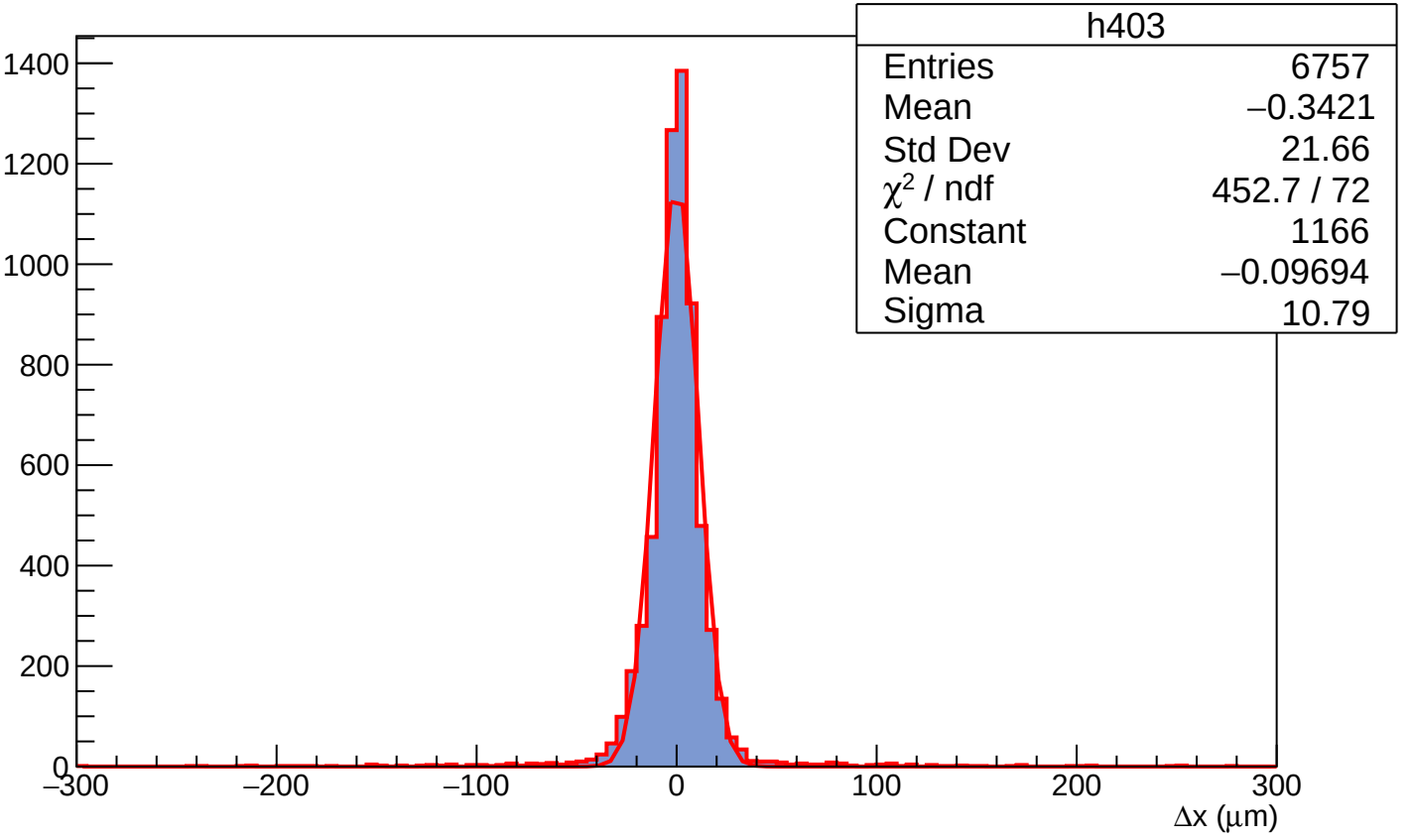

dy_generic (1.5mn > signal > 1.0mn)
h408
Entries 7937
Mean 0.01504
Std Dev 22.43
χ² / ndf 200 / 62
Constant 838
Mean 0.1334
Sigma 18.42
900
800
700
600
500
400
300
200
100
0
–300
–200
–100
0
100
200
300
Δy (μm)

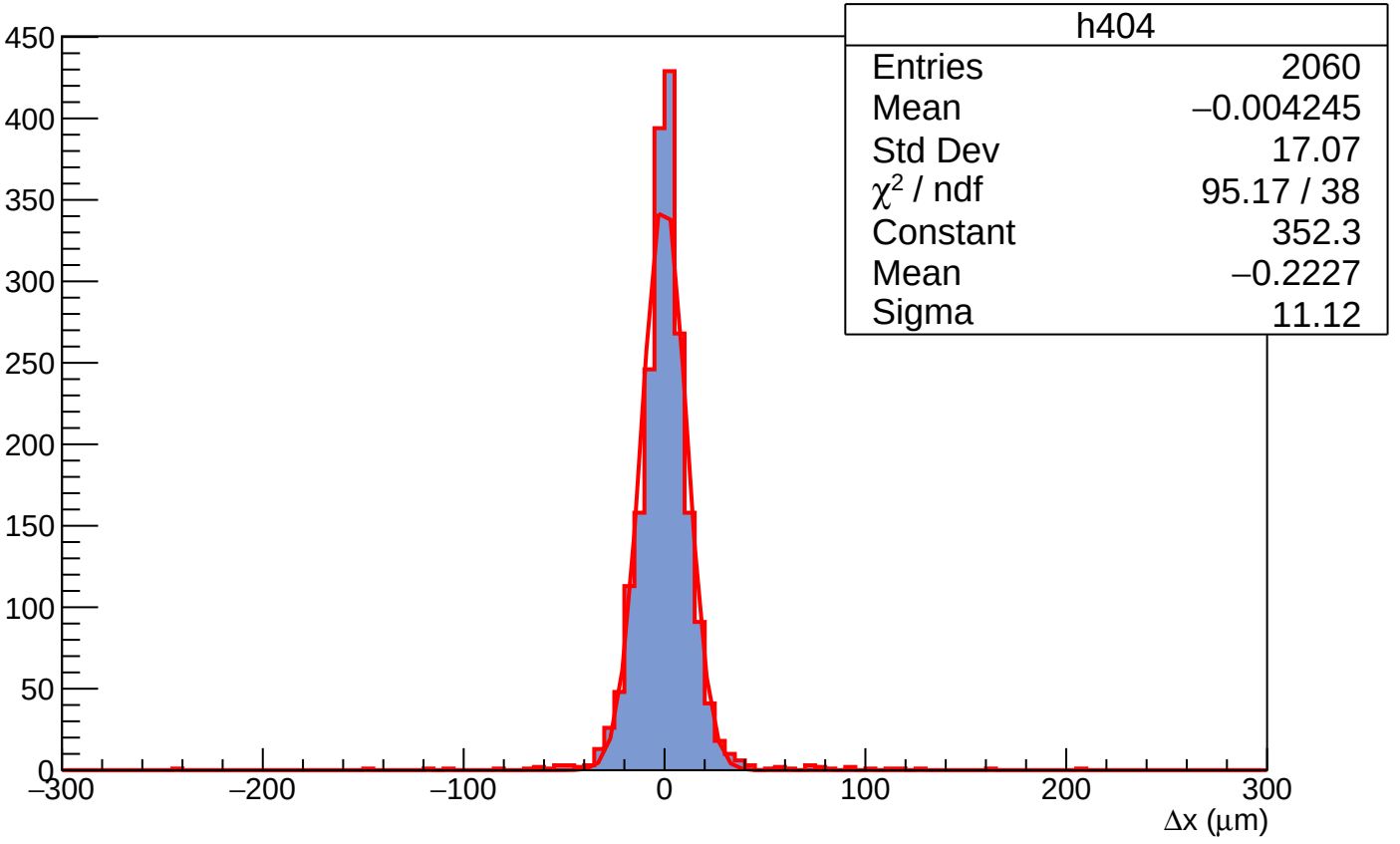

dy_generic (1.0mn > signal > 0.85mn)
h409
Entries 2430
Mean 0.6185
Std Dev 20.92
χ² / ndf 70.2 / 37
Constant 255.5
Mean 0.5704
Sigma 18.43
250
200
150
100
50
0
−300
−200
−100
0
100
200
300
Δy (μm)

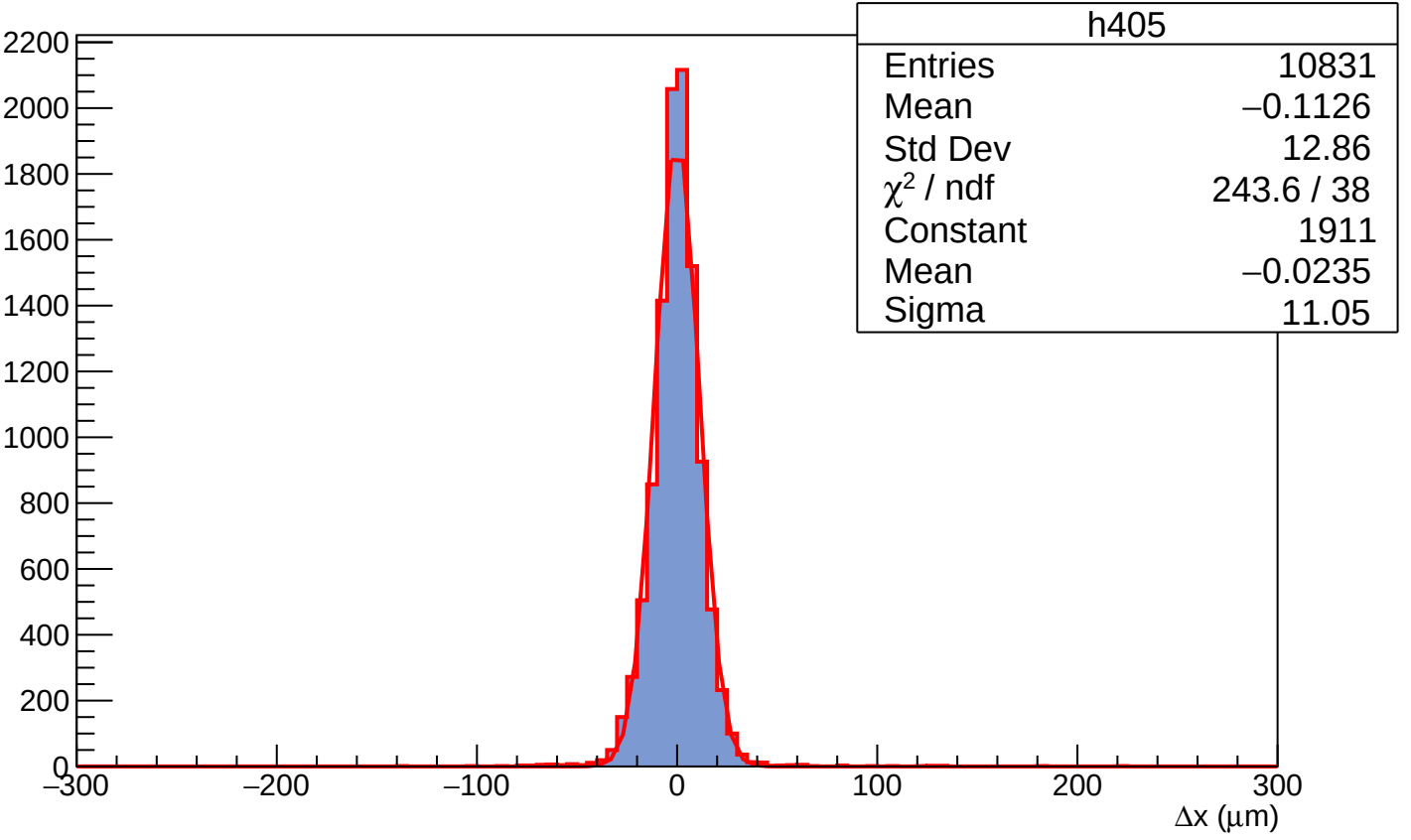

dy_generic (0.85mn > signal)
h410
Entries 12265
Mean –0.09963
Std Dev 19.48
χ² / ndf 203.2 / 48
Constant 1344
Mean –0.001786
Sigma 17.9
1400
1200
1000
800
600
400
200
0
–300
–200
–100
0
100
200
300
Δy (μm)

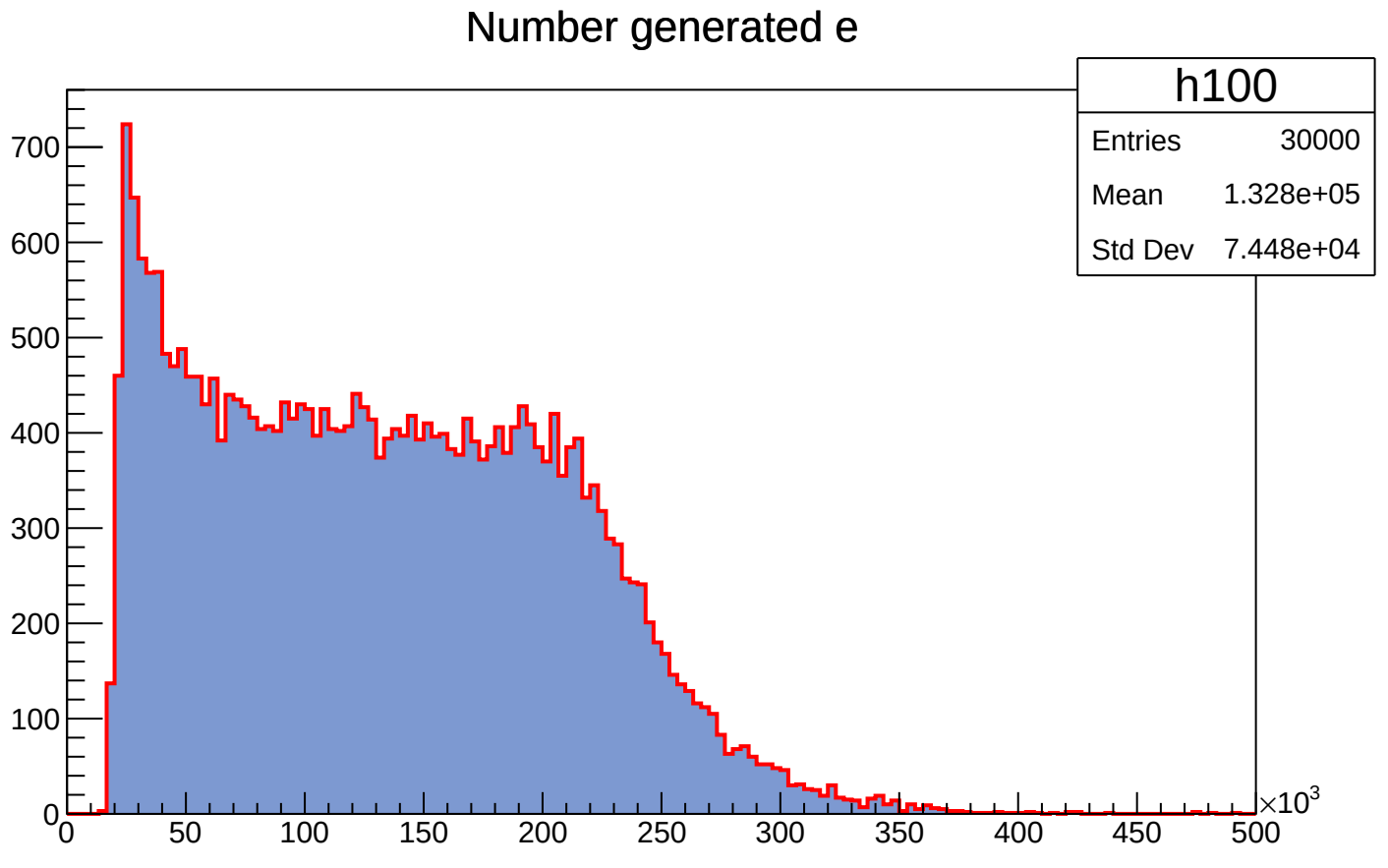

dx_generic (all sig)
h401
Entries 25353
Mean −0.07093
Std Dev 23.52
5000
4000
3000
2000
1000
0
−300
−200
−100
0
100
200
300
Δx (μm)

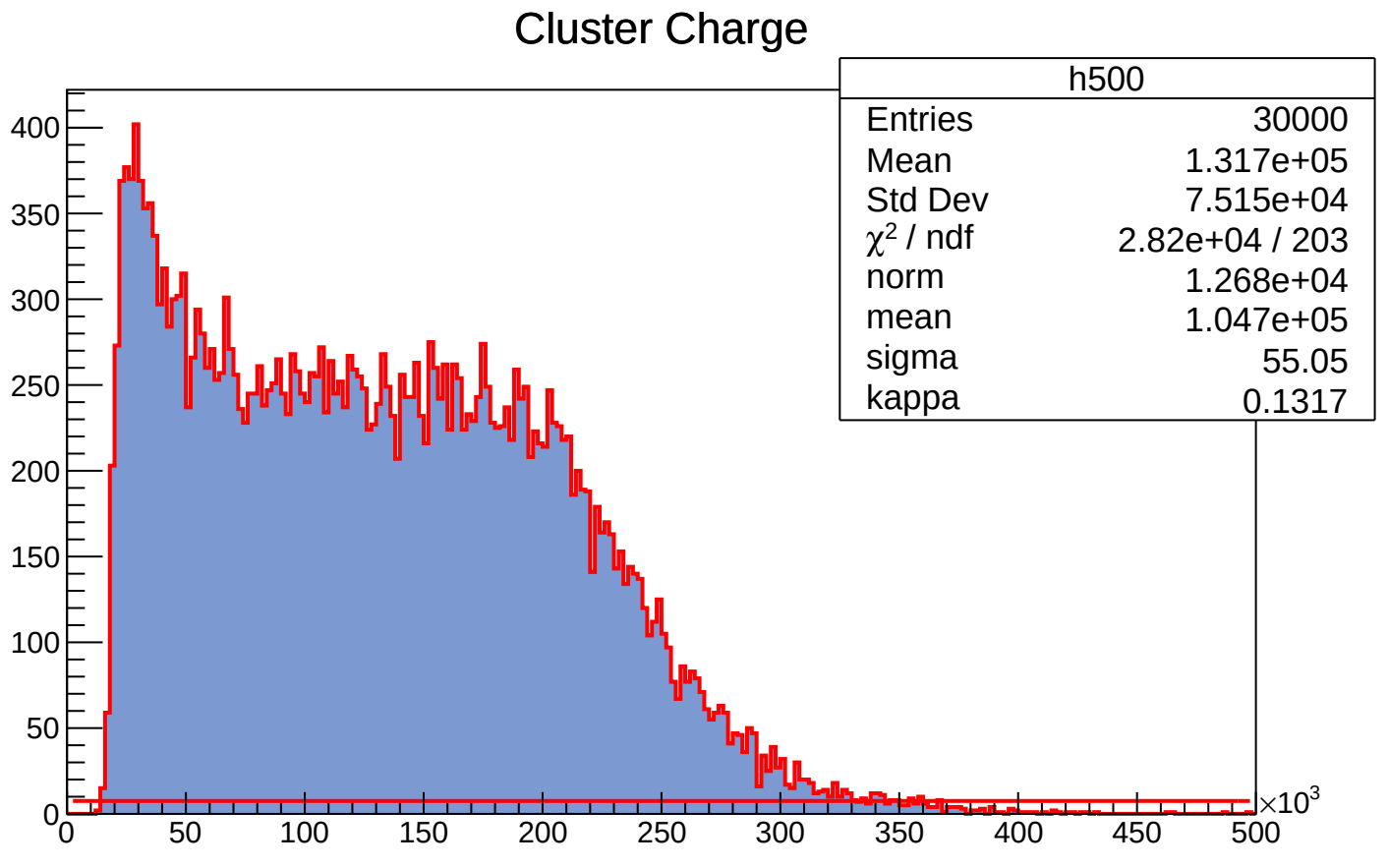

dx_generic (signal > 1.5mn)
h402
Entries 5705
Mean 0.3054
Std Dev 38.51
χ² / ndf 747.9 / 99
Constant 800.4
Mean –0.2576
Sigma 12.35
900
800
700
600
500
400
300
200
100
0
–300
–200
–100
0
100
200
300
Δx (μm)

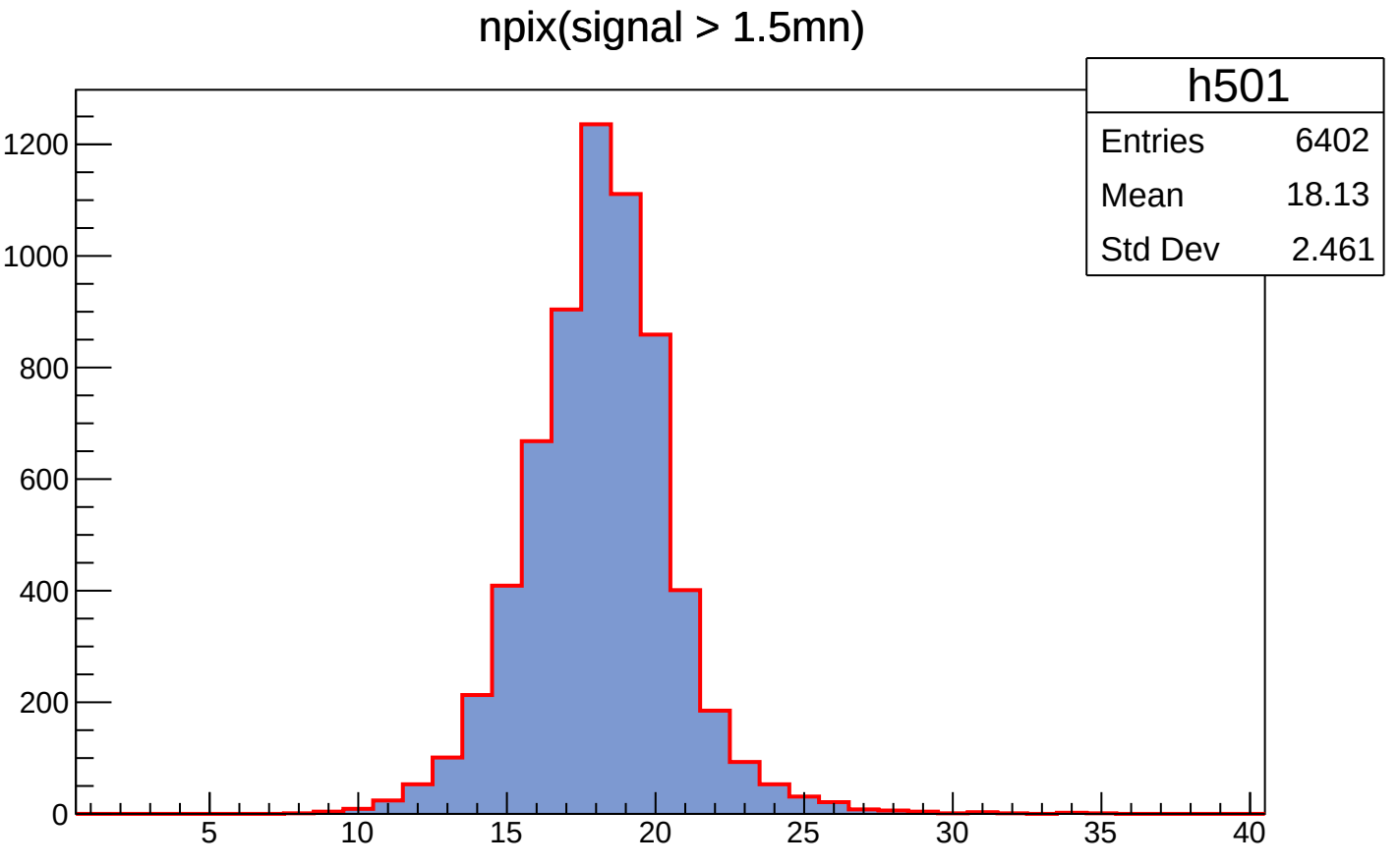

dx_generic (1.5mn > signal > 1.0mn)
h403
Entries 6757
Mean –0.3421
Std Dev 21.66
χ² / ndf 452.7 / 72
Constant 1166
Mean –0.09694
Sigma 10.79
1400
1200
1000
800
600
400
200
0
–300
–200
–100
0
100
200
300
Δx (μm)

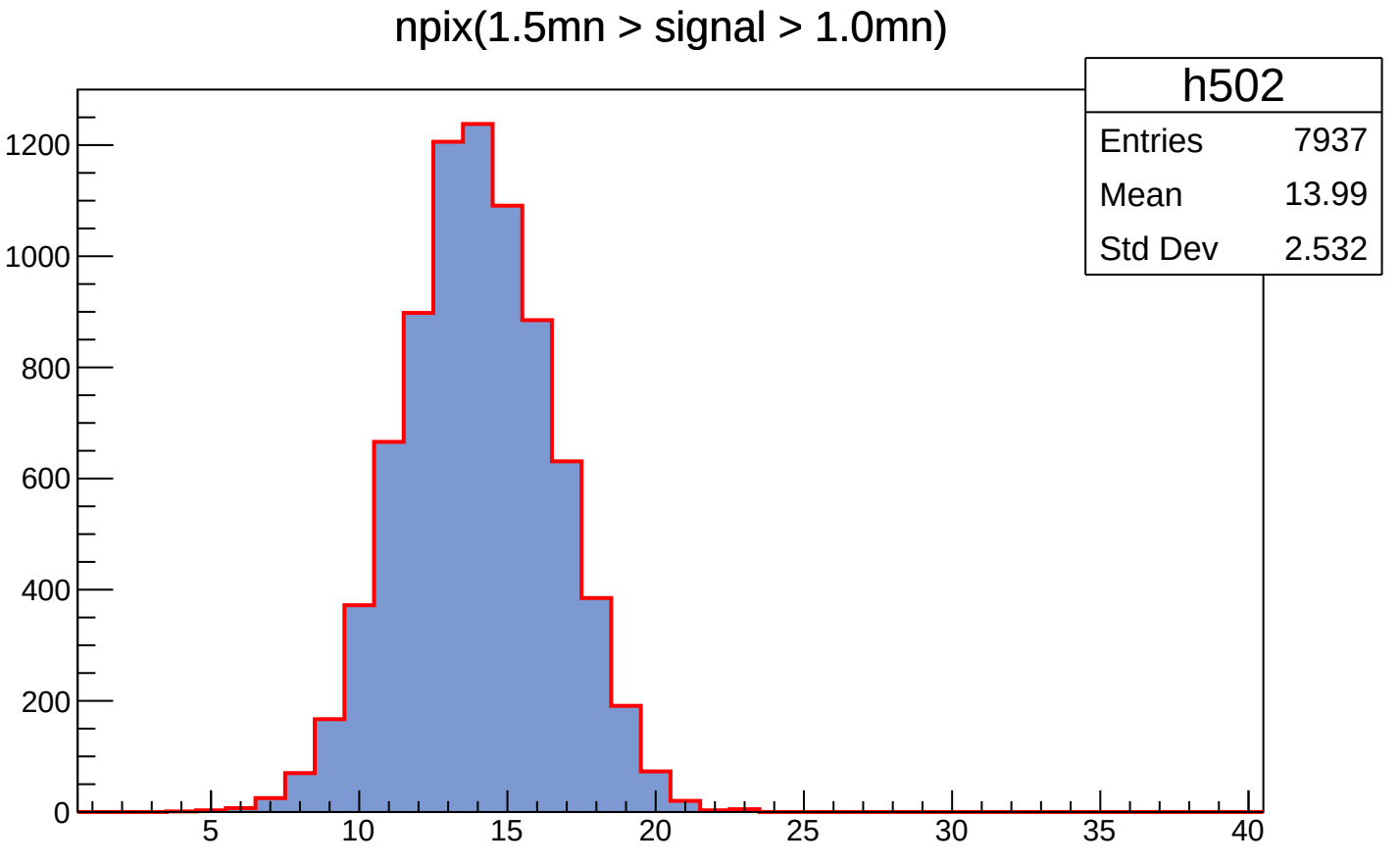

dx_generic (1.0mn > signal > 0.85mn)
h404
Entries 2060
Mean −0.004245
Std Dev 17.07
χ² / ndf 95.17 / 38
Constant 352.3
Mean −0.2227
Sigma 11.12
450
400
350
300
250
200
150
100
50
0
−300
−200
−100
0
100
200
300
Δx (μm)

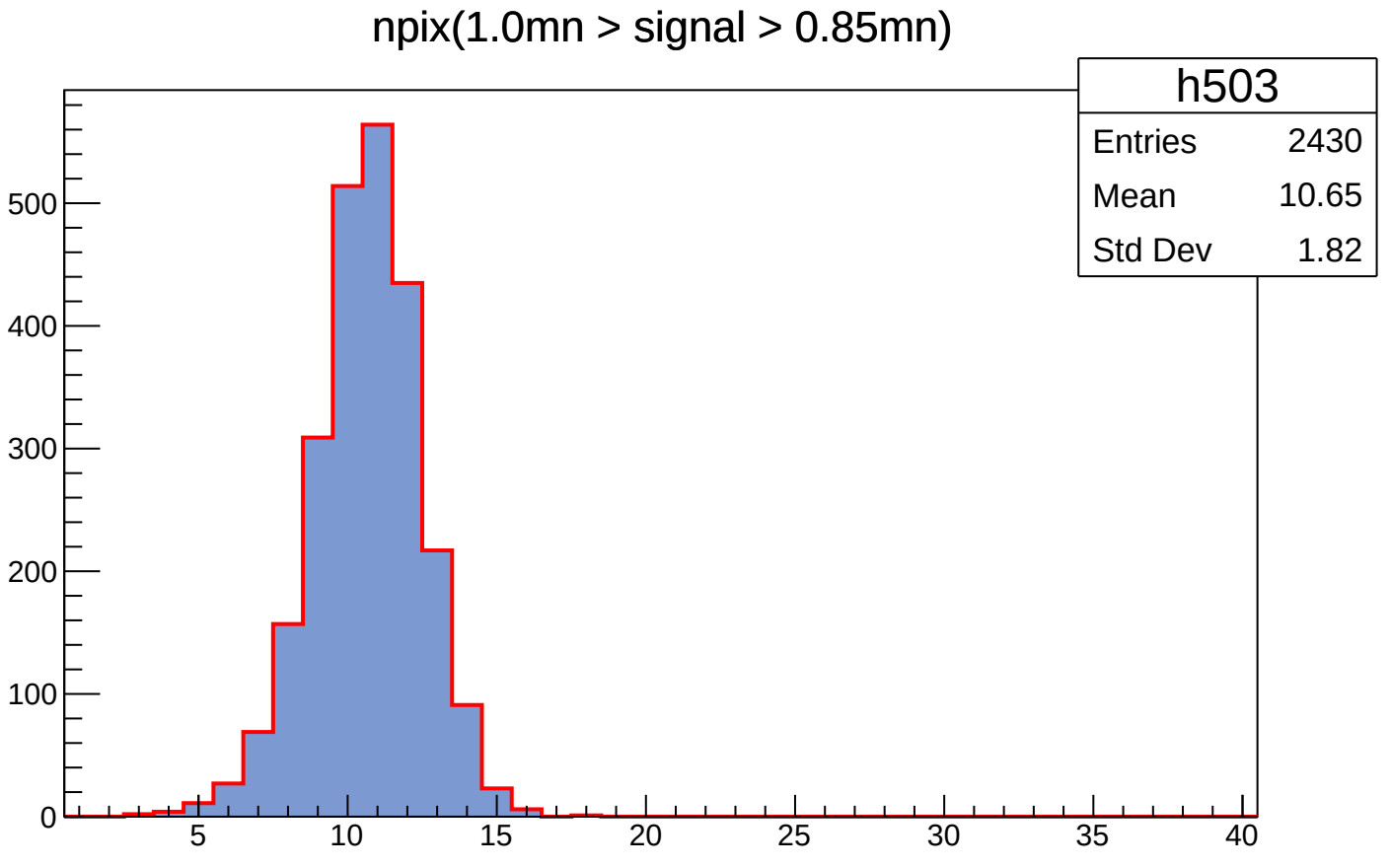

dx_generic (0.85mn > signal)
h405
Entries 10831
Mean −0.1126
Std Dev 12.86
χ² / ndf 243.6 / 38
Constant 1911
Mean −0.0235
Sigma 11.05
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
−300
−200
−100
0
100
200
300
Δx (μm)

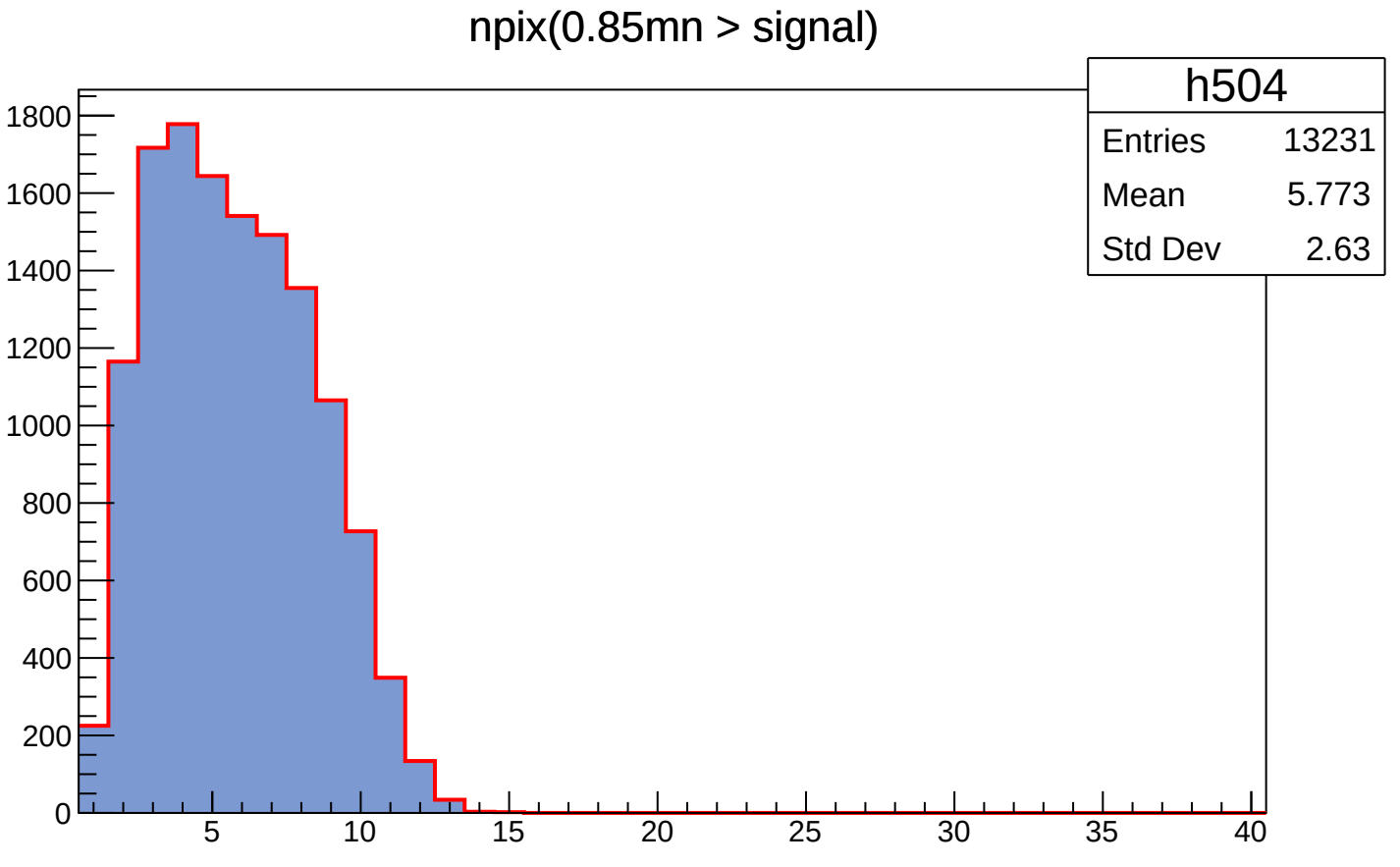

Number generated e
h100
Entries 30000
Mean 1.328e+05
Std Dev 7.448e+04
700
600
500
400
300
200
100
0
0
50
100
150
200
250
300
350
400
450
500
×10^3

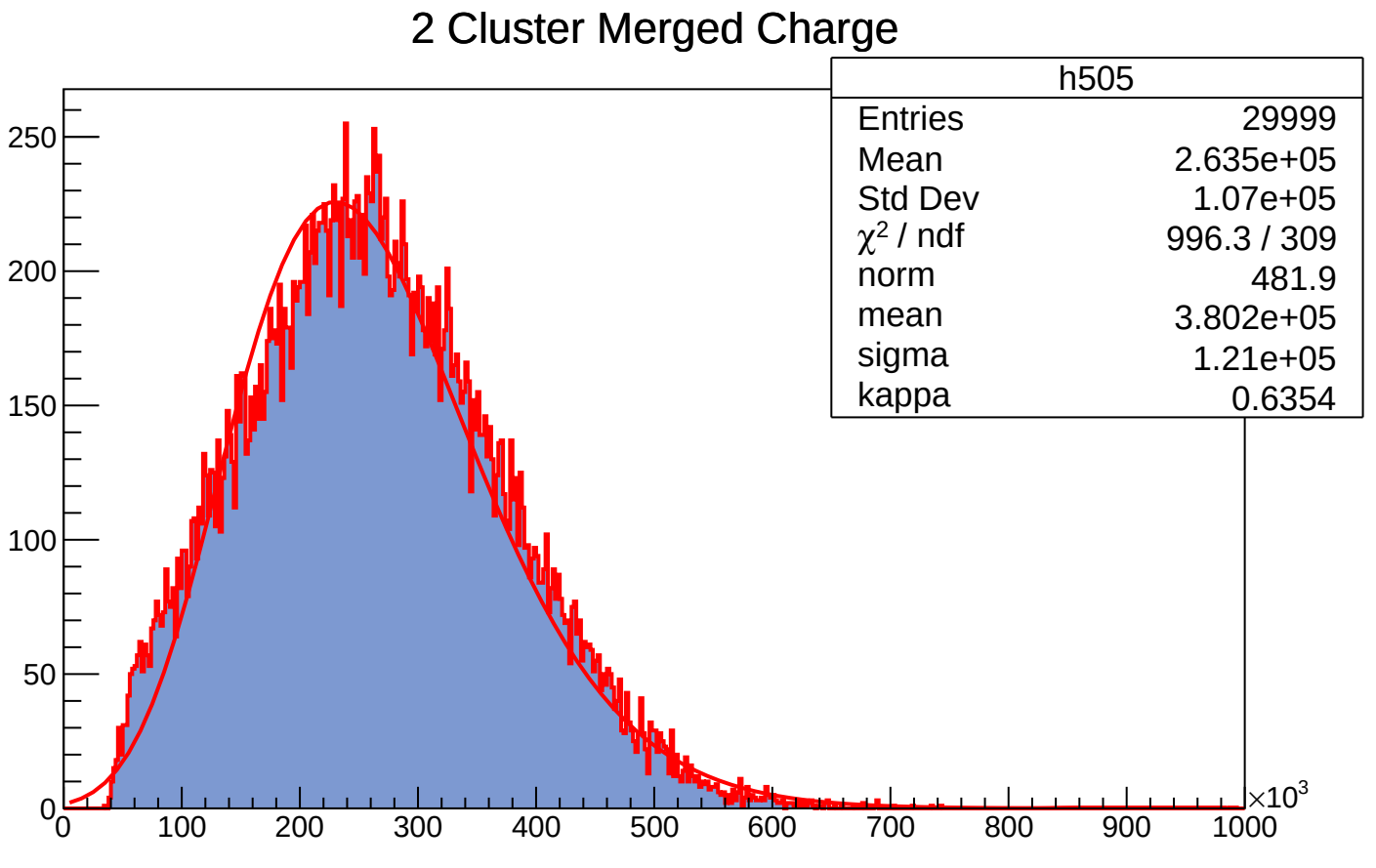

Cluster Charge
h500
Entries 30000
Mean 1.317e+05
Std Dev 7.515e+04
χ² / ndf 2.82e+04 / 203
norm 1.268e+04
mean 1.047e+05
sigma 55.05
kappa 0.1317
400
350
300
250
200
150
100
50
0
0
50
100
150
200
250
300
350
400
450
500
×10³

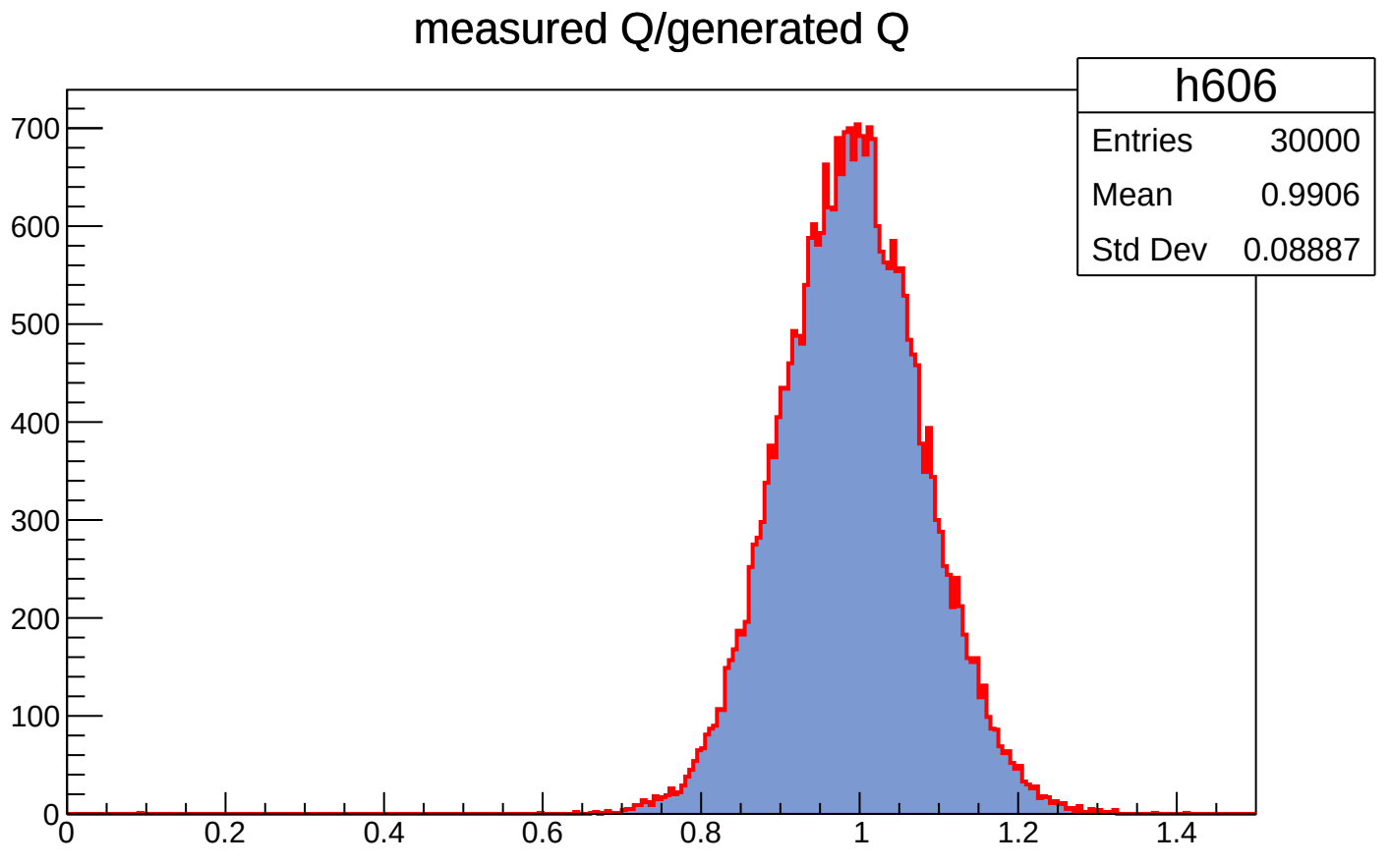

npix(signal > 1.5mn)
h501
Entries 6402
Mean 18.13
Std Dev 2.461
1200
1000
800
600
400
200
0
5
10
15
20
25
30
35
40

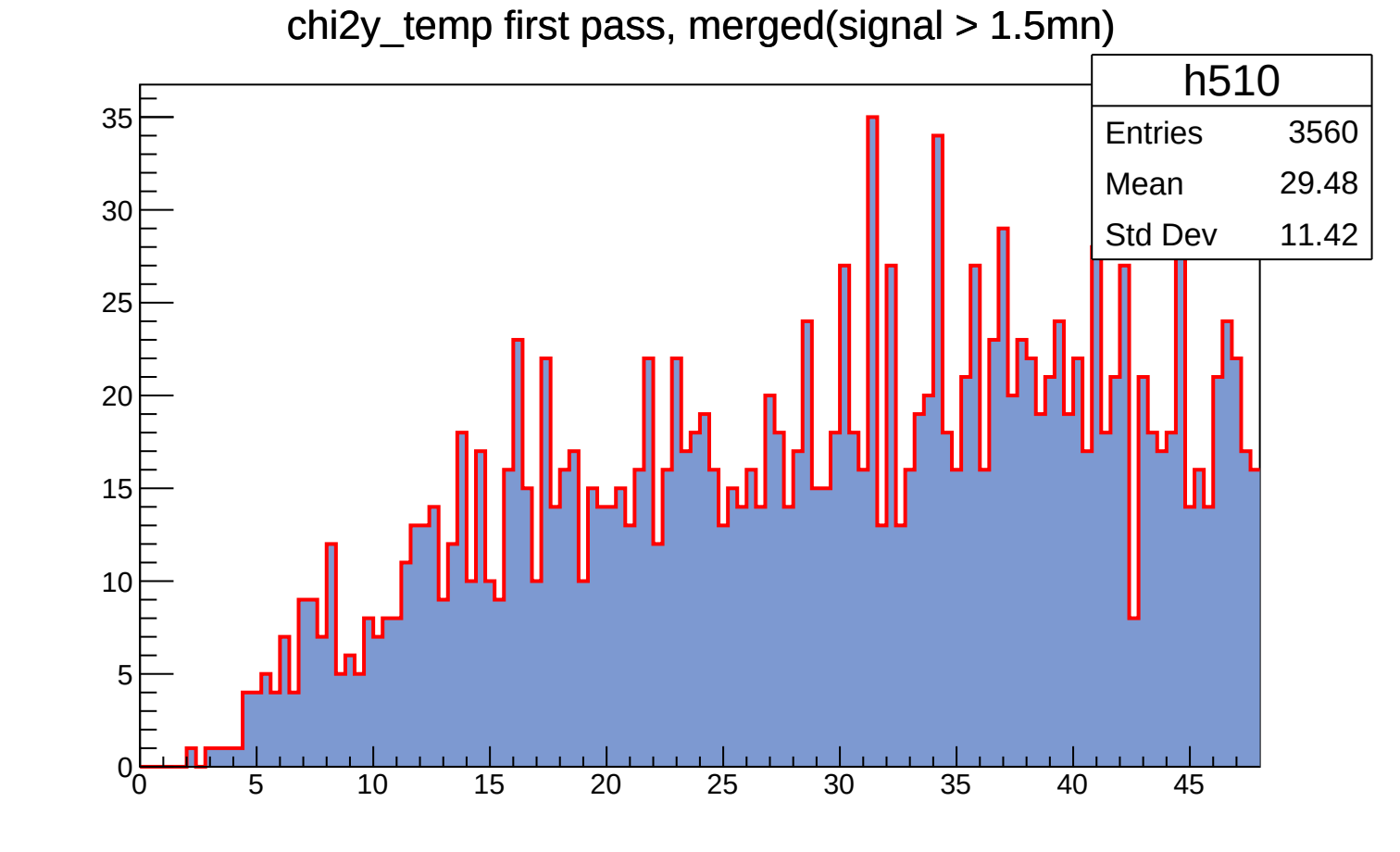

npix(1.5mn > signal > 1.0mn)
h502
Entries 7937
Mean 13.99
Std Dev 2.532
1200
1000
800
600
400
200
0
5
10
15
20
25
30
35
40

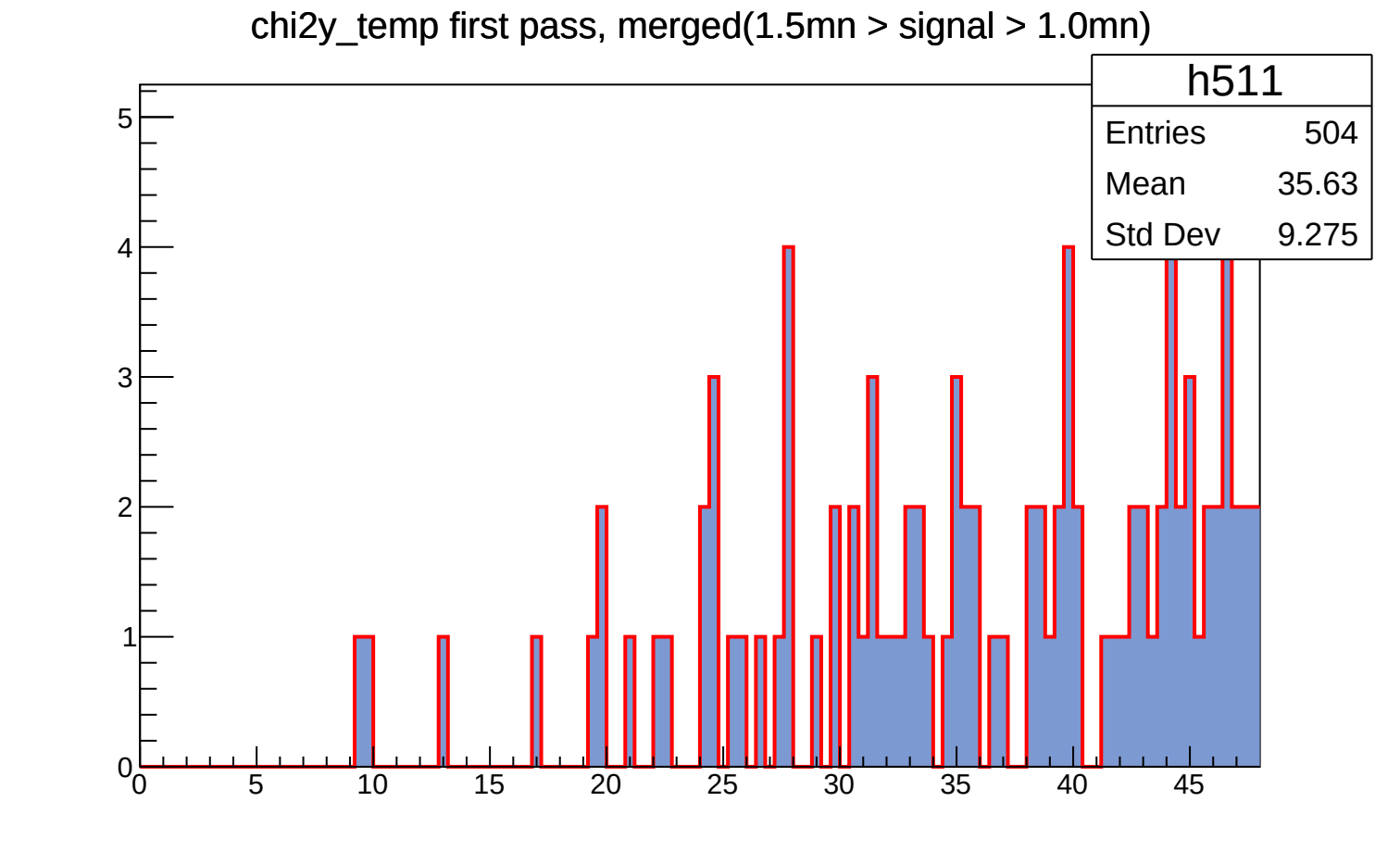

npix(1.0mn > signal > 0.85mn)
h503
Entries 2430
Mean 10.65
Std Dev 1.82
500
400
300
200
100
0
5
10
15
20
25
30
35
40

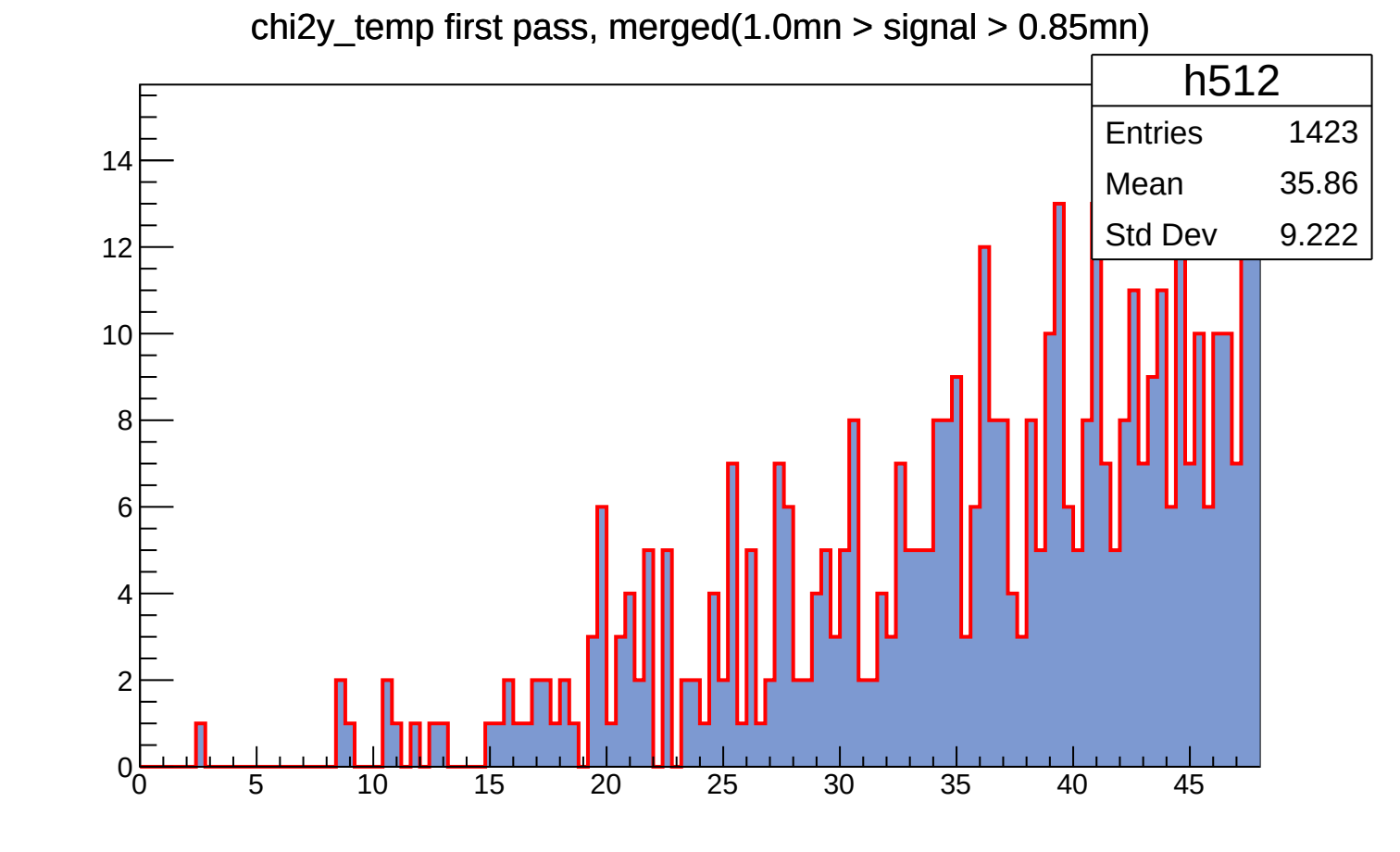

npix(0.85mn > signal)
h504
Entries 13231
Mean 5.773
Std Dev 2.63
1800
1600
1400
1200
1000
800
600
400
200
0
5
10
15
20
25
30
35
40

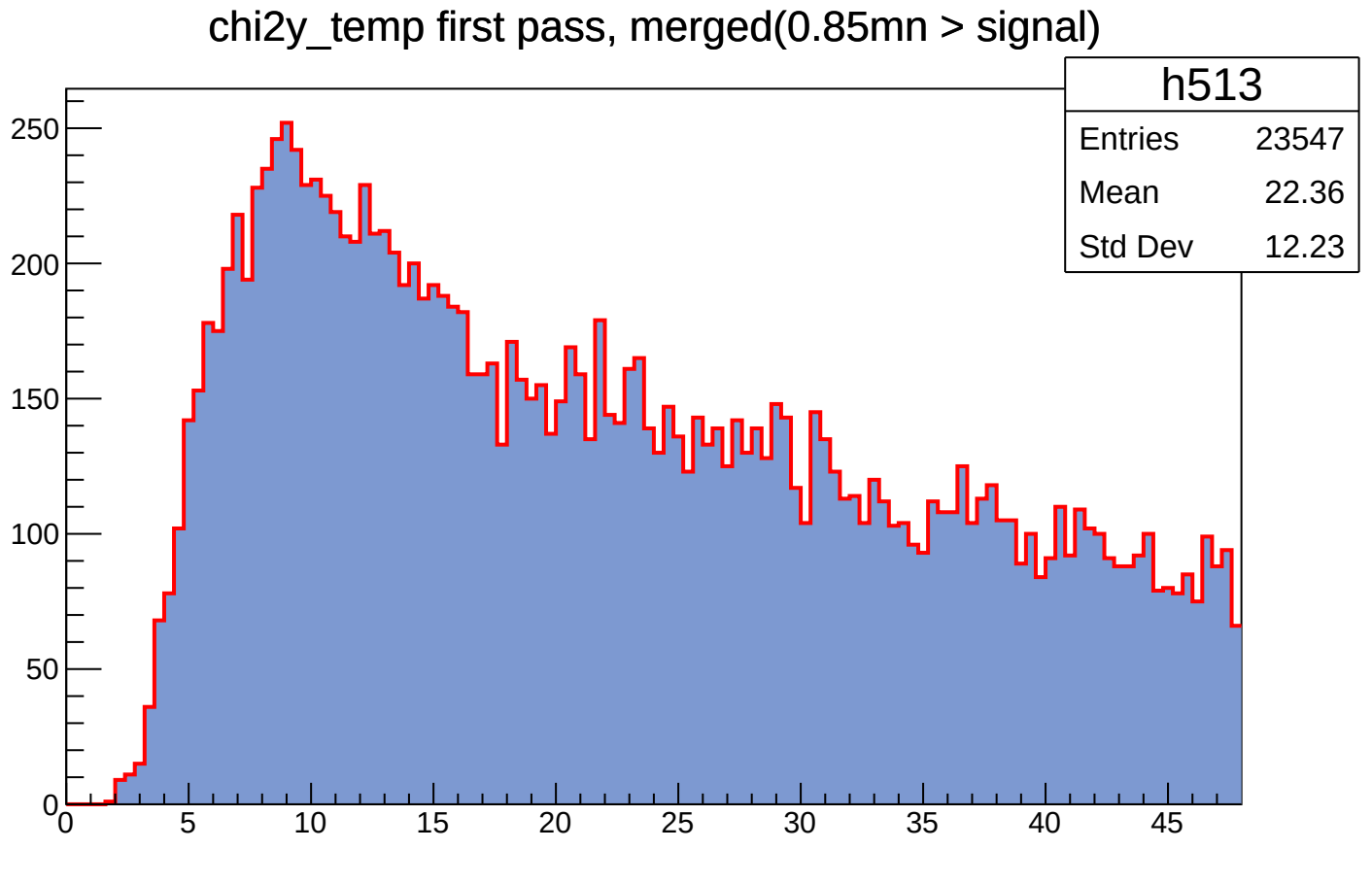

2 Cluster Merged Charge
h505
Entries 29999
Mean 2.635e+05
Std Dev 1.07e+05
χ² / ndf 996.3 / 309
norm 481.9
mean 3.802e+05
sigma 1.21e+05
kappa 0.6354
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800
900
1000
×10³

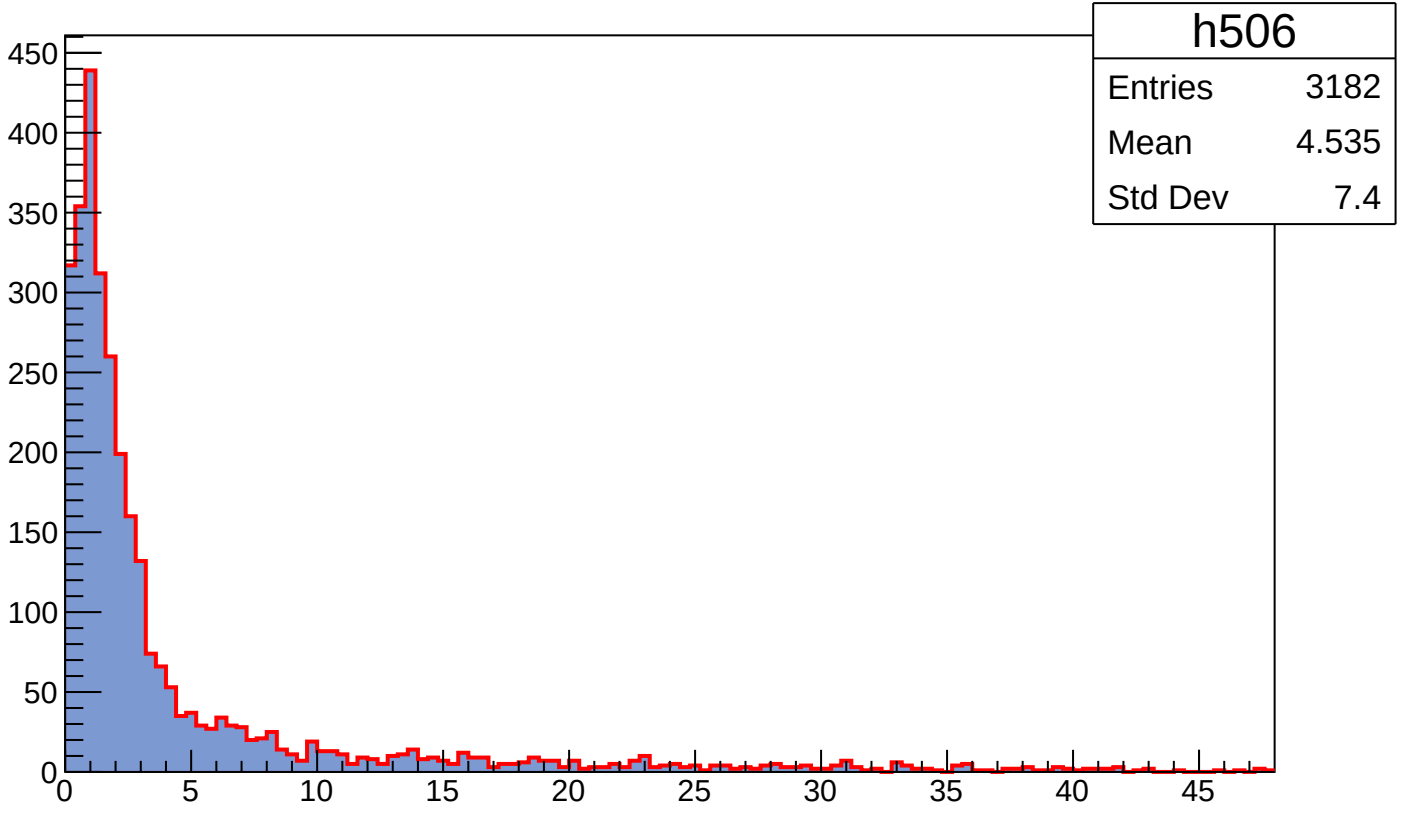

measured Q/generated Q
h606
Entries 30000
Mean 0.9906
Std Dev 0.08887
700
600
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4

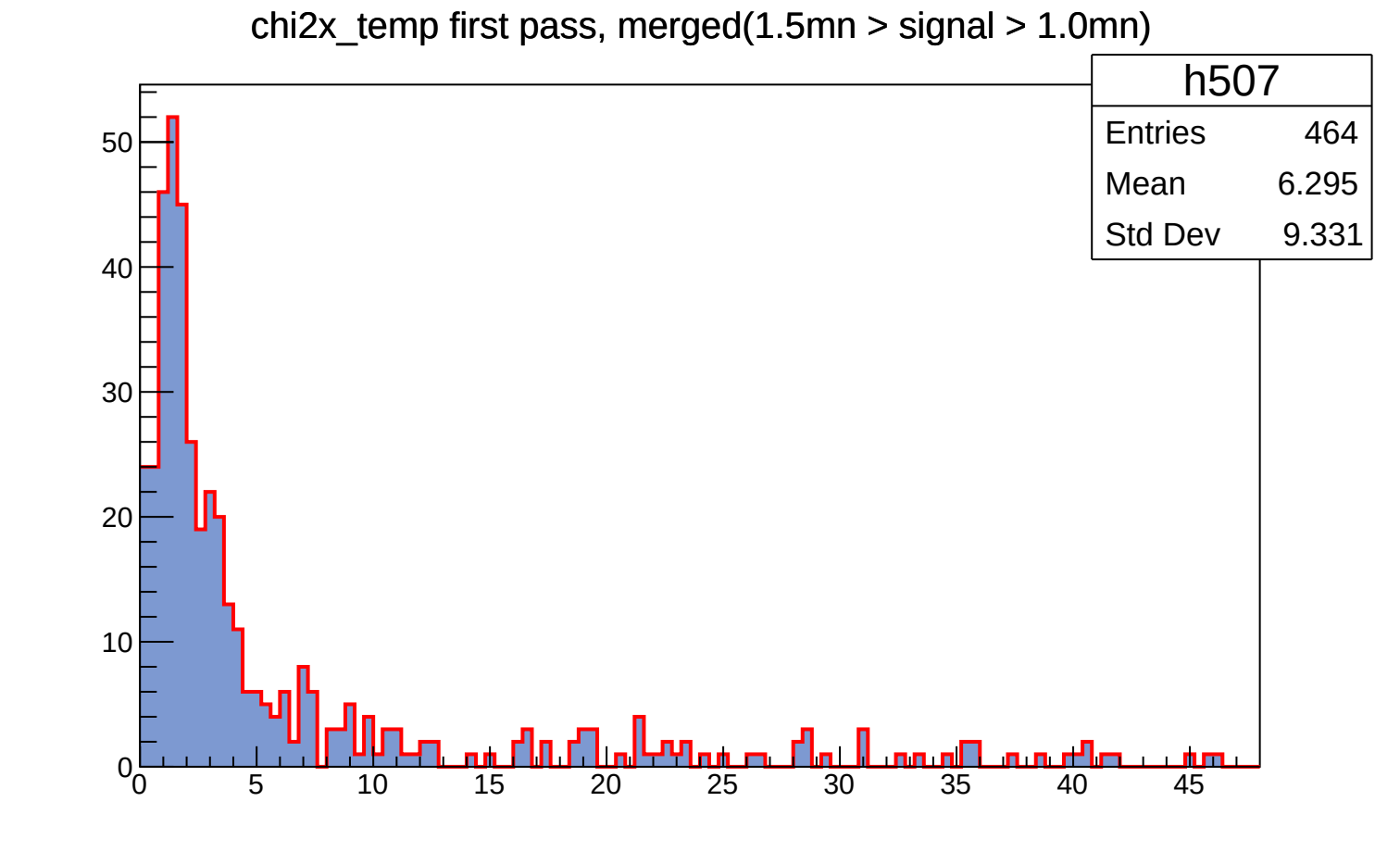

chi2y_temp first pass, merged(signal > 1.5mn)
h510
Entries 3560
Mean 29.48
Std Dev 11.42
0
5
10
15
20
25
30
35
40
45

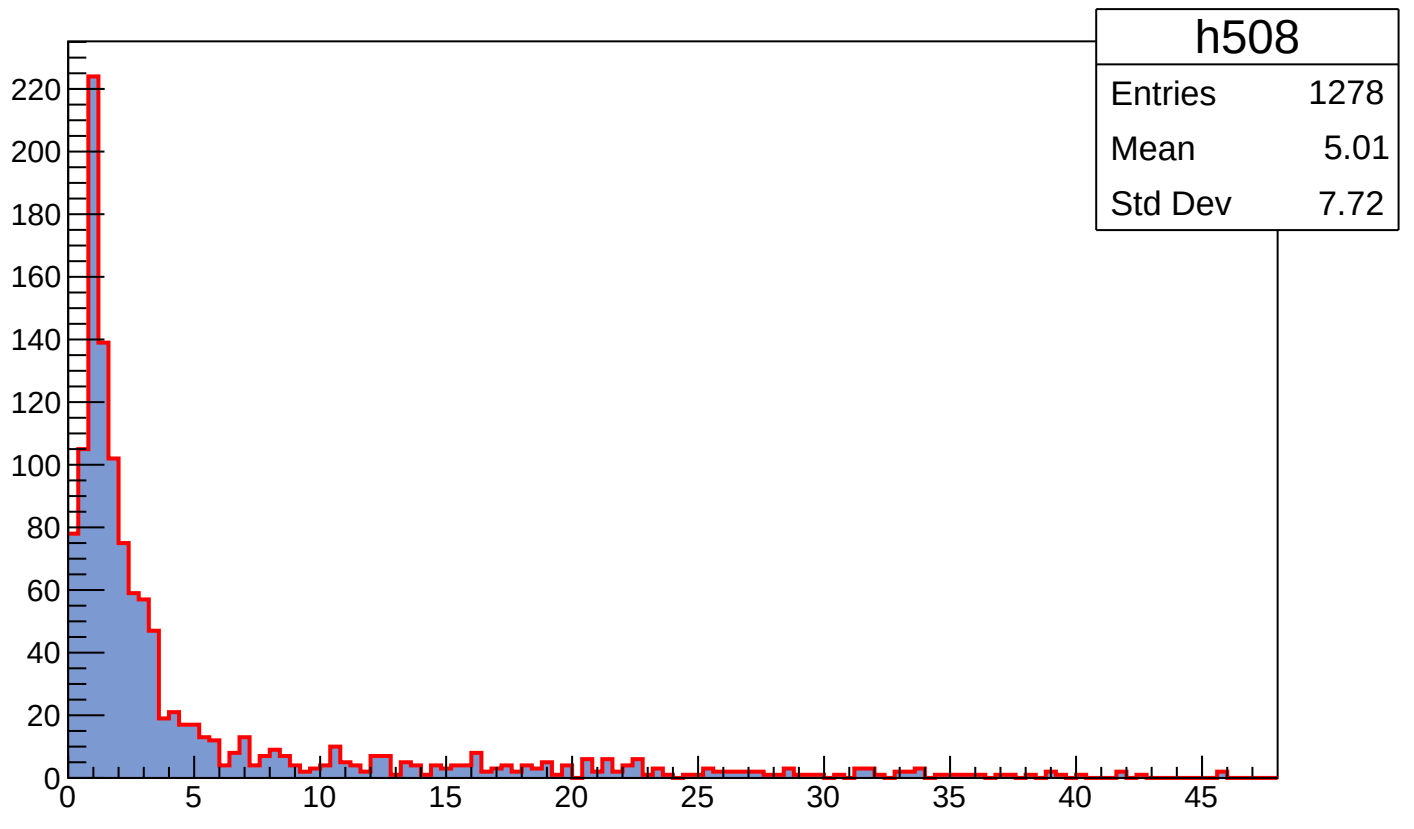

chi2y_temp first pass, merged(1.5mn > signal > 1.0mn)
h511
Entries 504
Mean 35.63
Std Dev 9.275
0
1
2
3
4
5
0
5
10
15
20
25
30
35
40
45

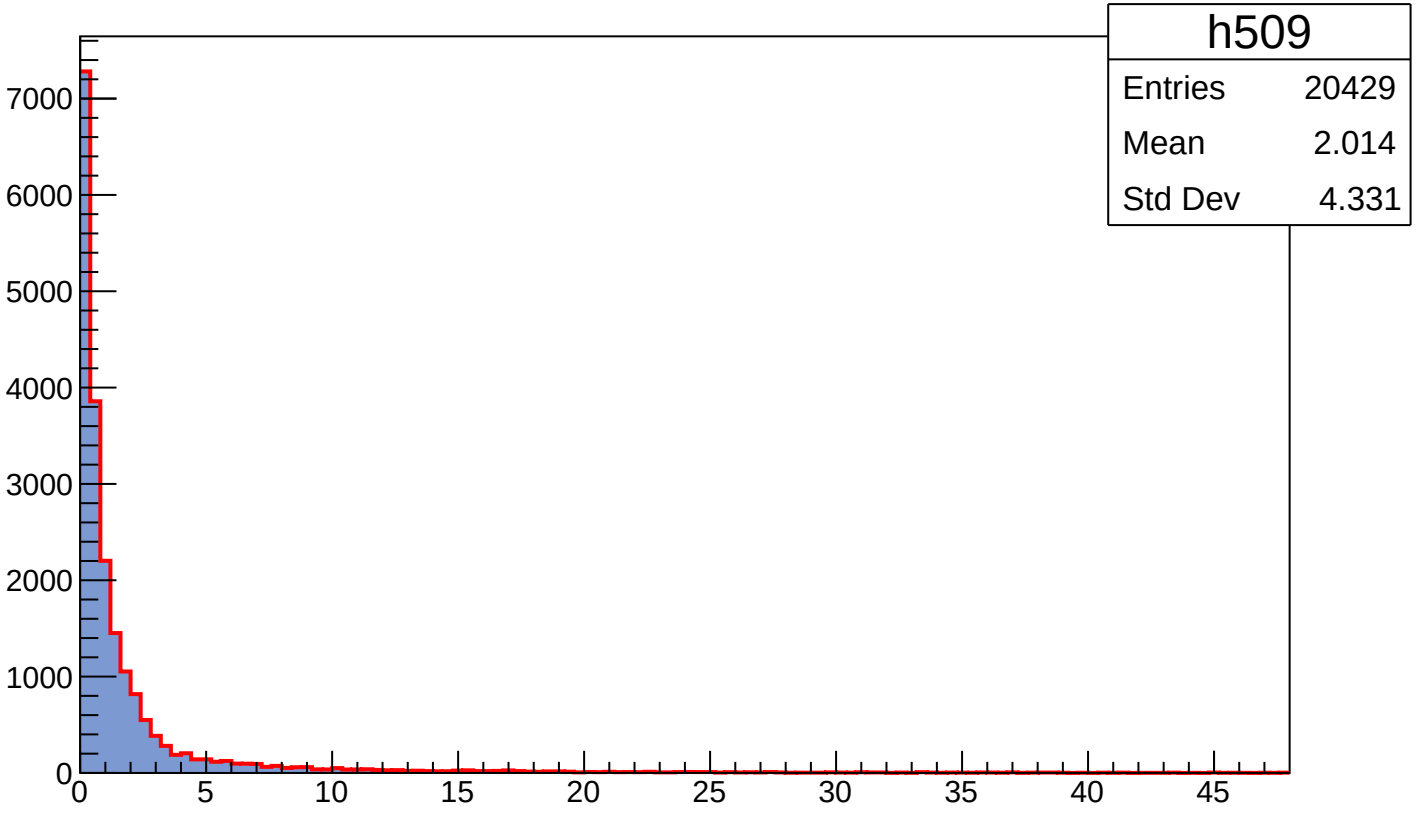

chi2y_temp first pass, merged(1.0mn > signal > 0.85mn)
h512
Entries 1423
Mean 35.86
Std Dev 9.222
0
2
4
6
8
10
12
14
0
5
10
15
20
25
30
35
40
45

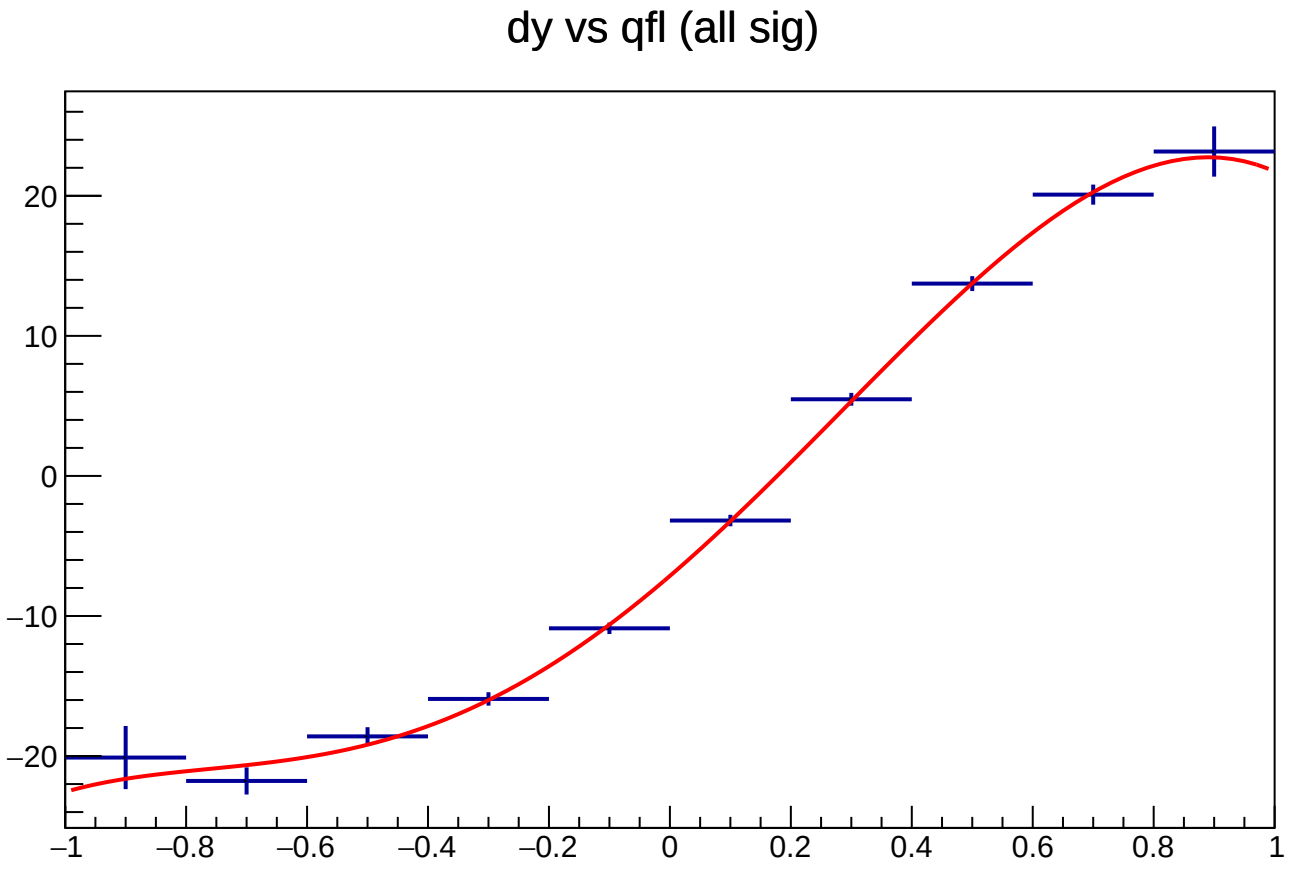

chi2y_temp first pass, merged(0.85mn > signal)
h513
Entries 23547
Mean 22.36
Std Dev 12.23
250
200
150
100
50
0
0
5
10
15
20
25
30
35
40
45

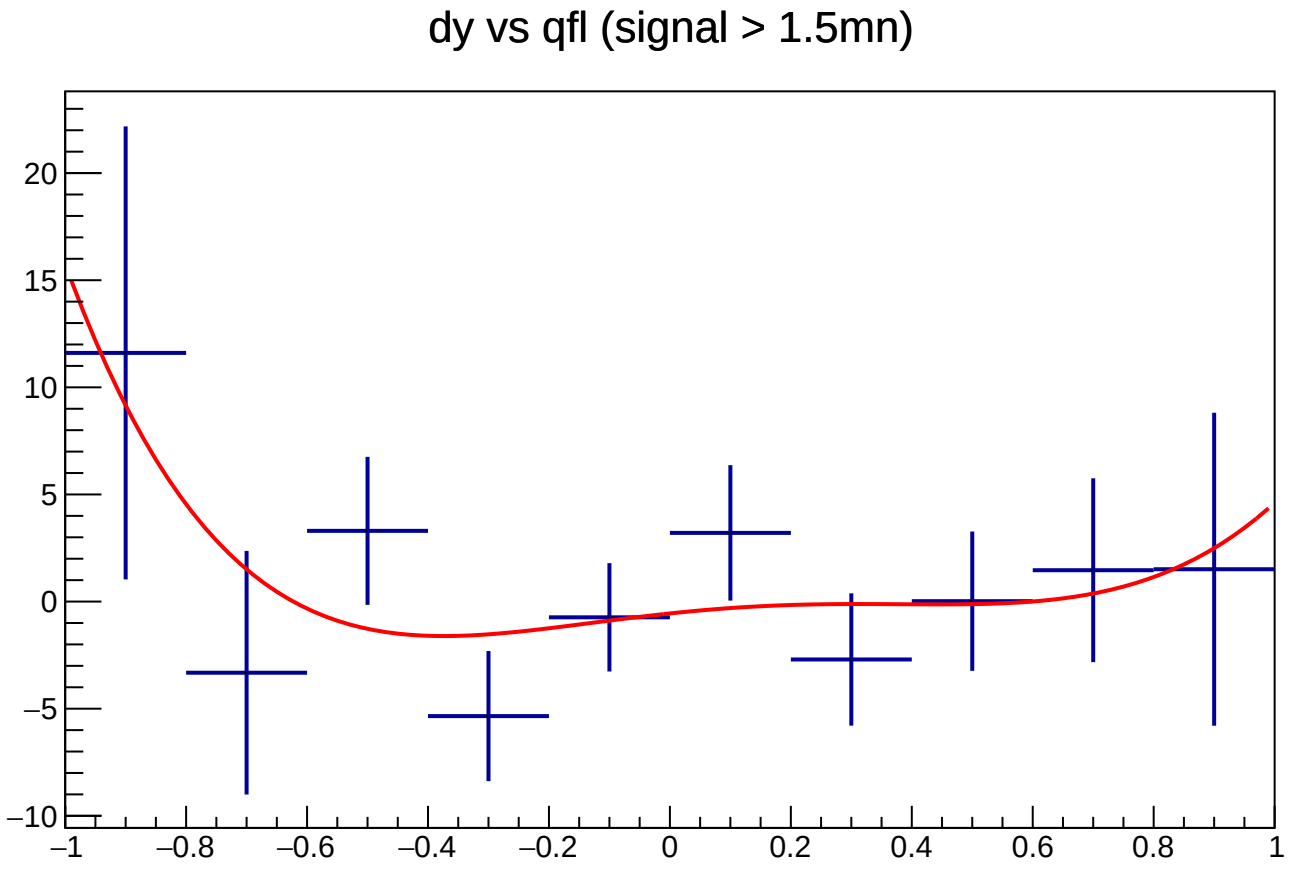

chi2x_temp first pass, merged(signal > 1.5mn)
h506
Entries 3182
Mean 4.535
Std Dev 7.4
450
400
350
300
250
200
150
100
50
0
0
5
10
15
20
25
30
35
40
45

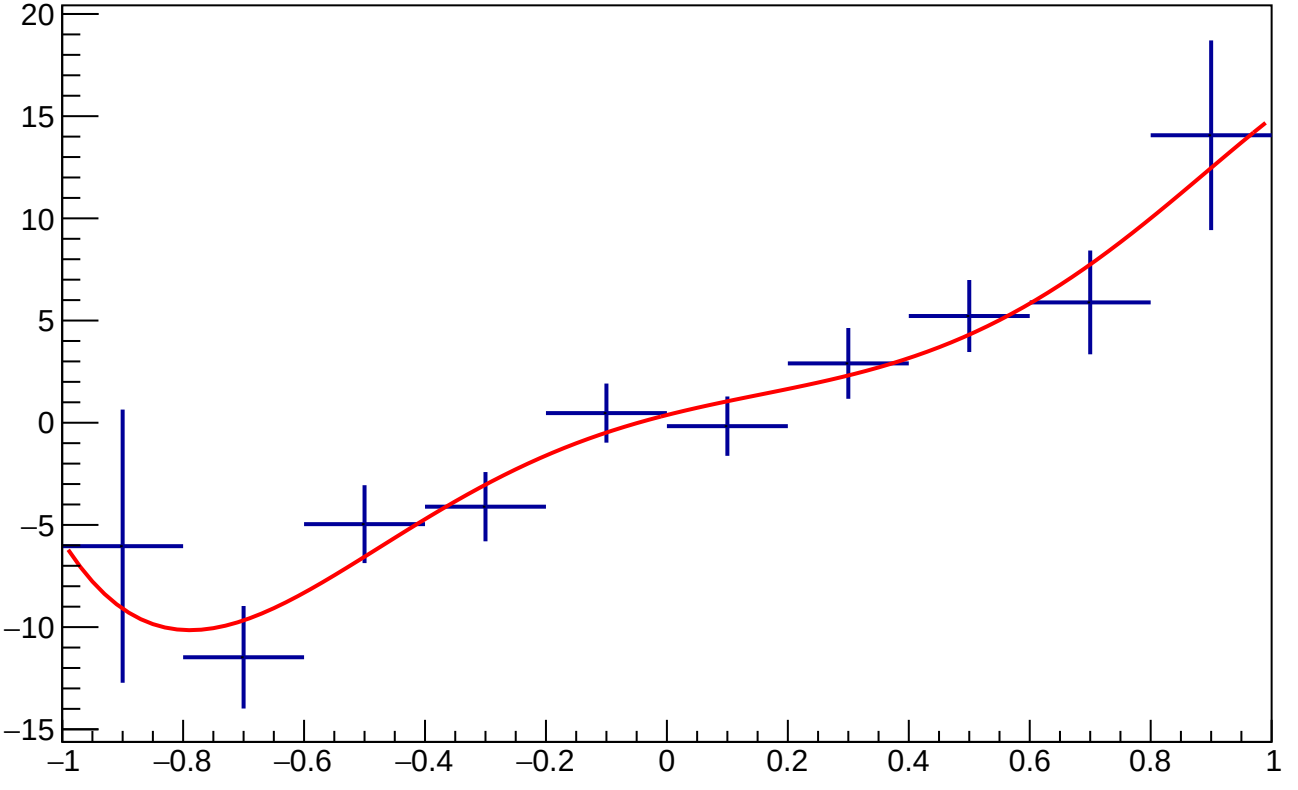

chi2x_temp first pass, merged(1.5mn > signal > 1.0mn)
h507
Entries 464
Mean 6.295
Std Dev 9.331
0
10
20
30
40
50
0
5
10
15
20
25
30
35
40
45

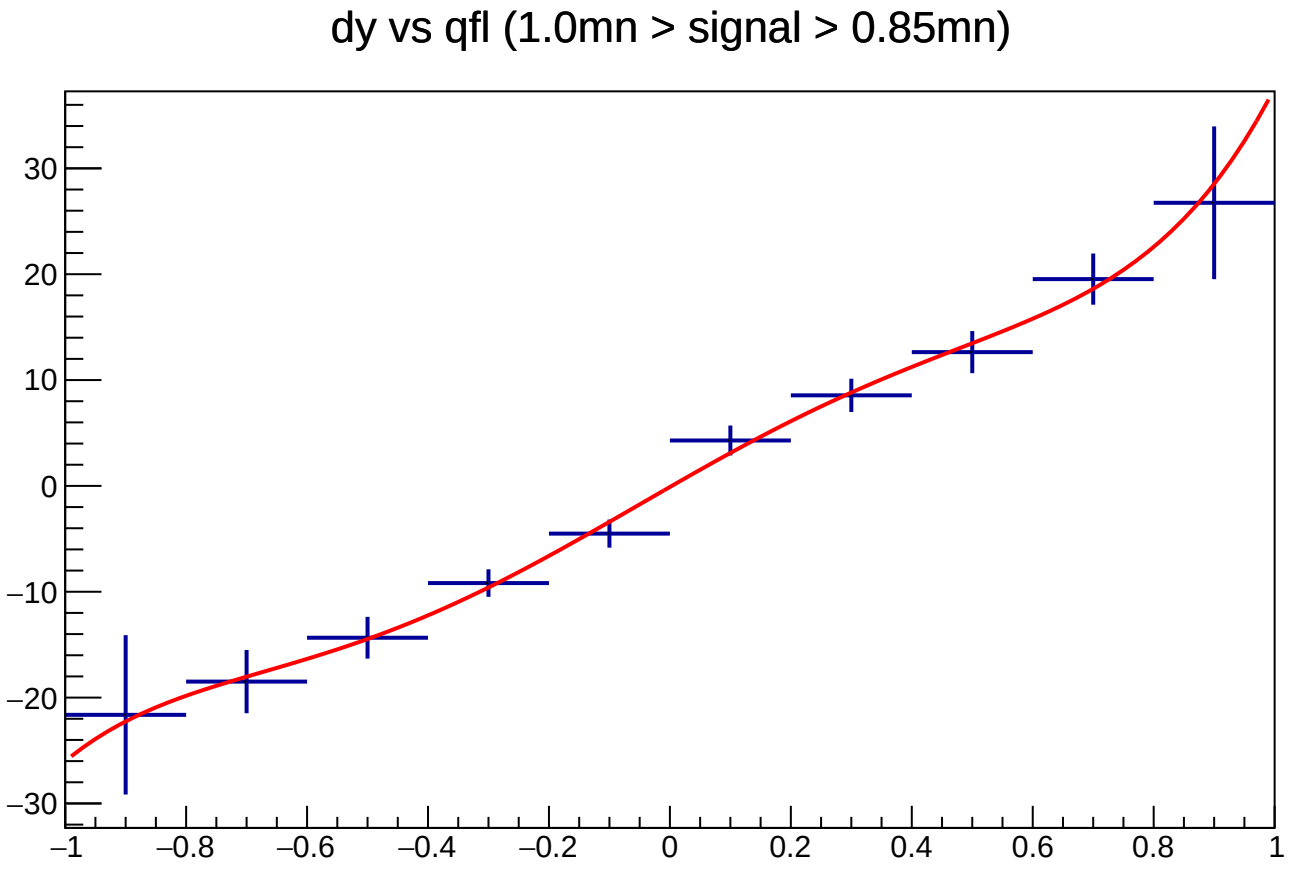

chi2x_temp first pass, merged(1.0mn > signal > 0.85mn)
h508
Entries 1278
Mean 5.01
Std Dev 7.72
220
200
180
160
140
120
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45

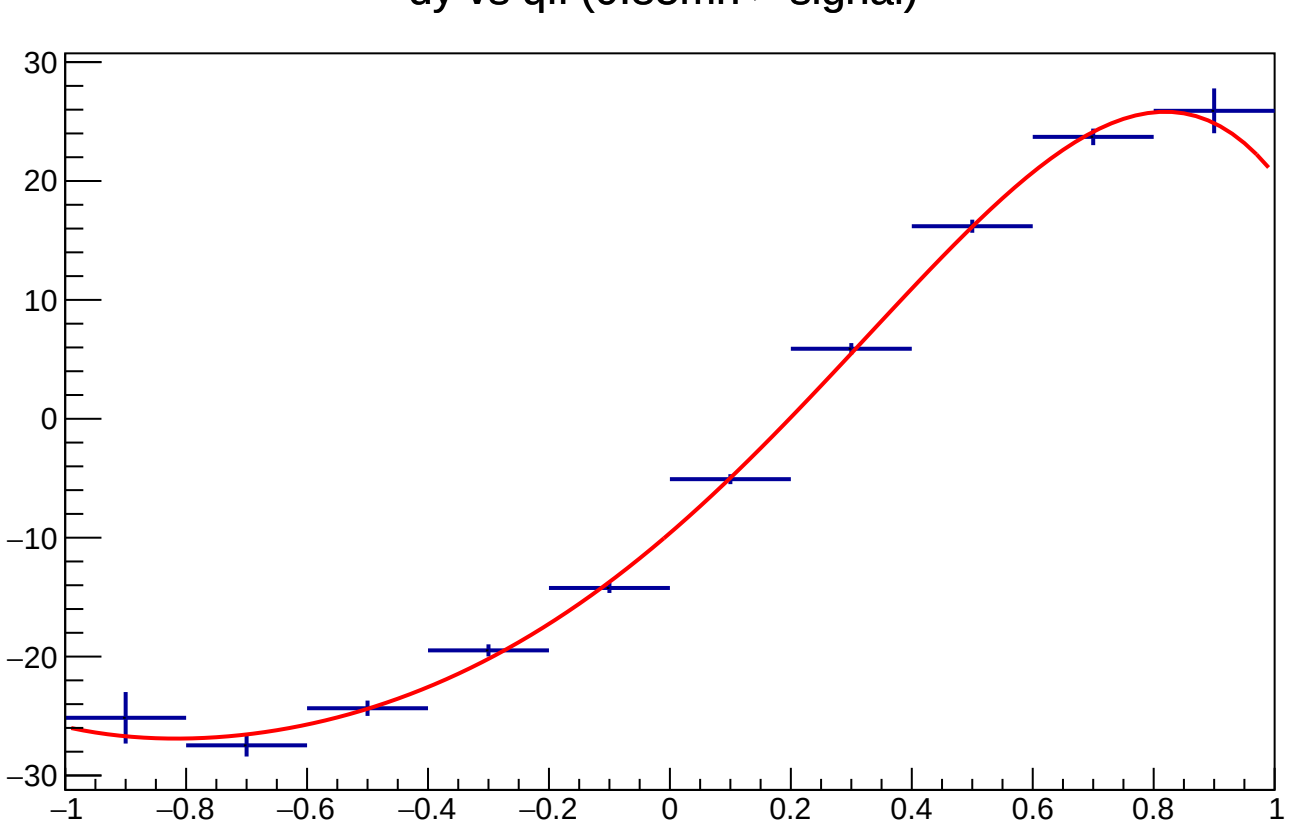

chi2x_temp first pass, merged(0.85mn > signal)
h509
Entries 20429
Mean 2.014
Std Dev 4.331
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
45

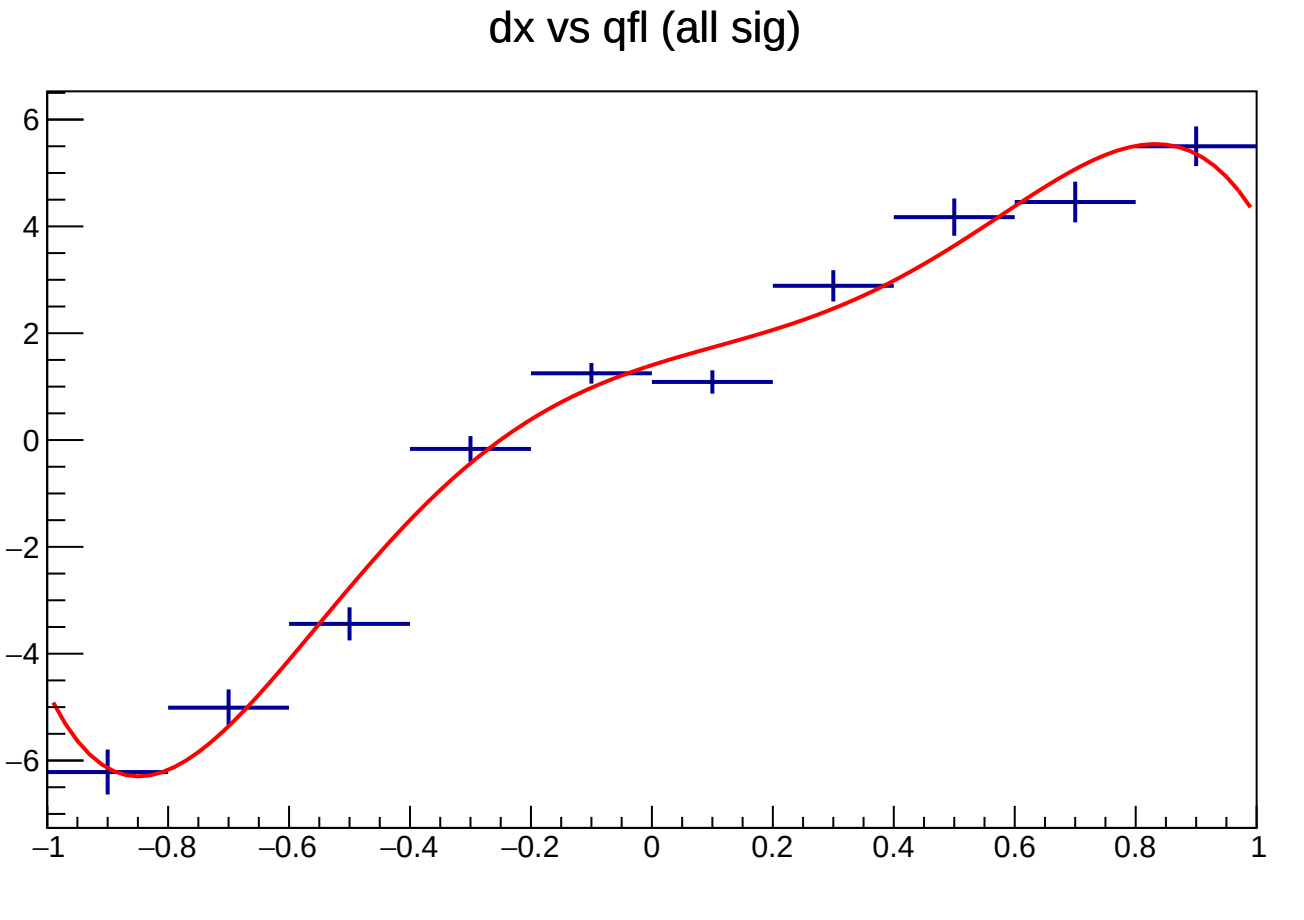

dy vs qfl (all sig)
20
10
0
−10
−20
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

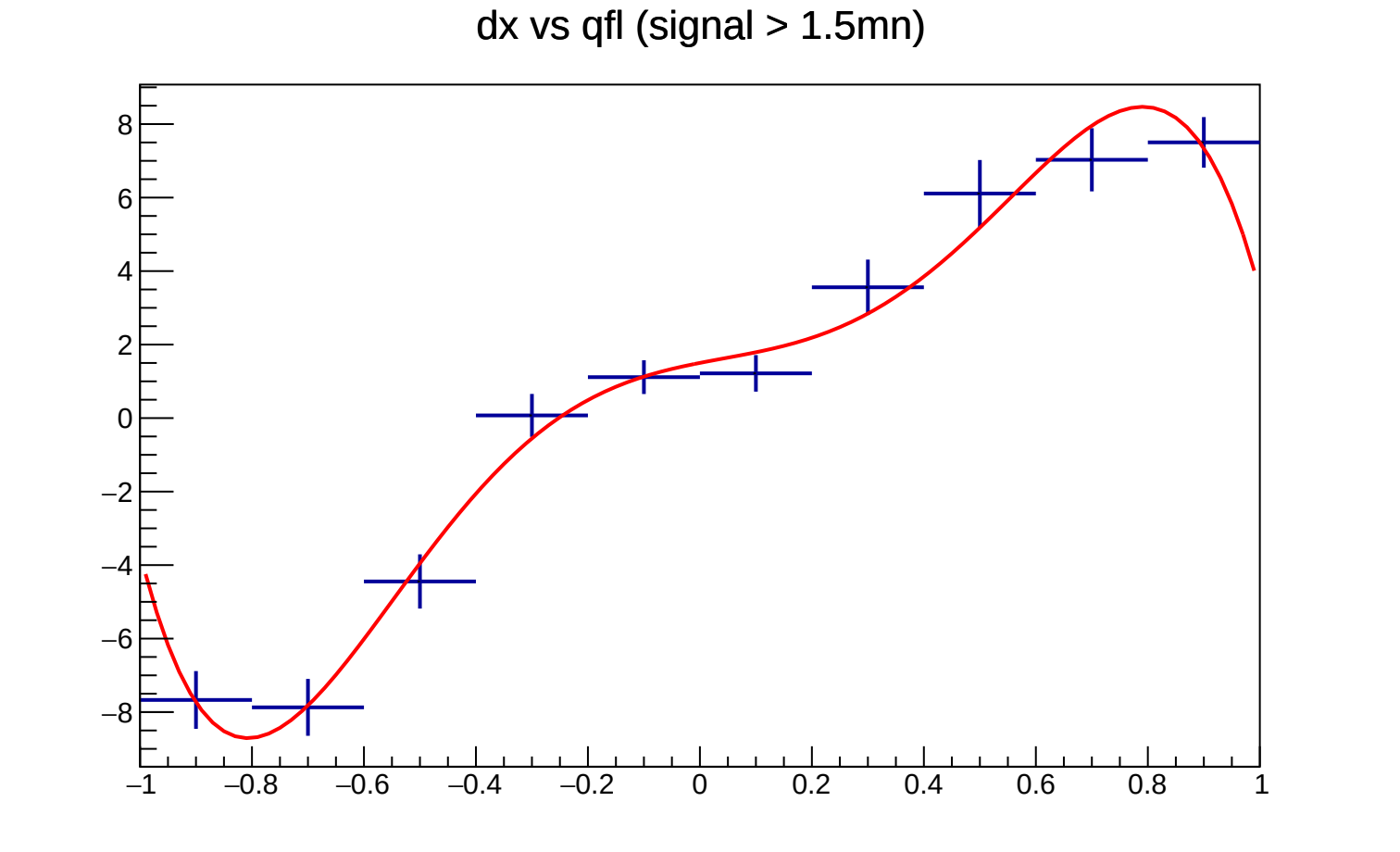

dy vs qfl (signal > 1.5mn)
20
15
10
5
0
−5
−10
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

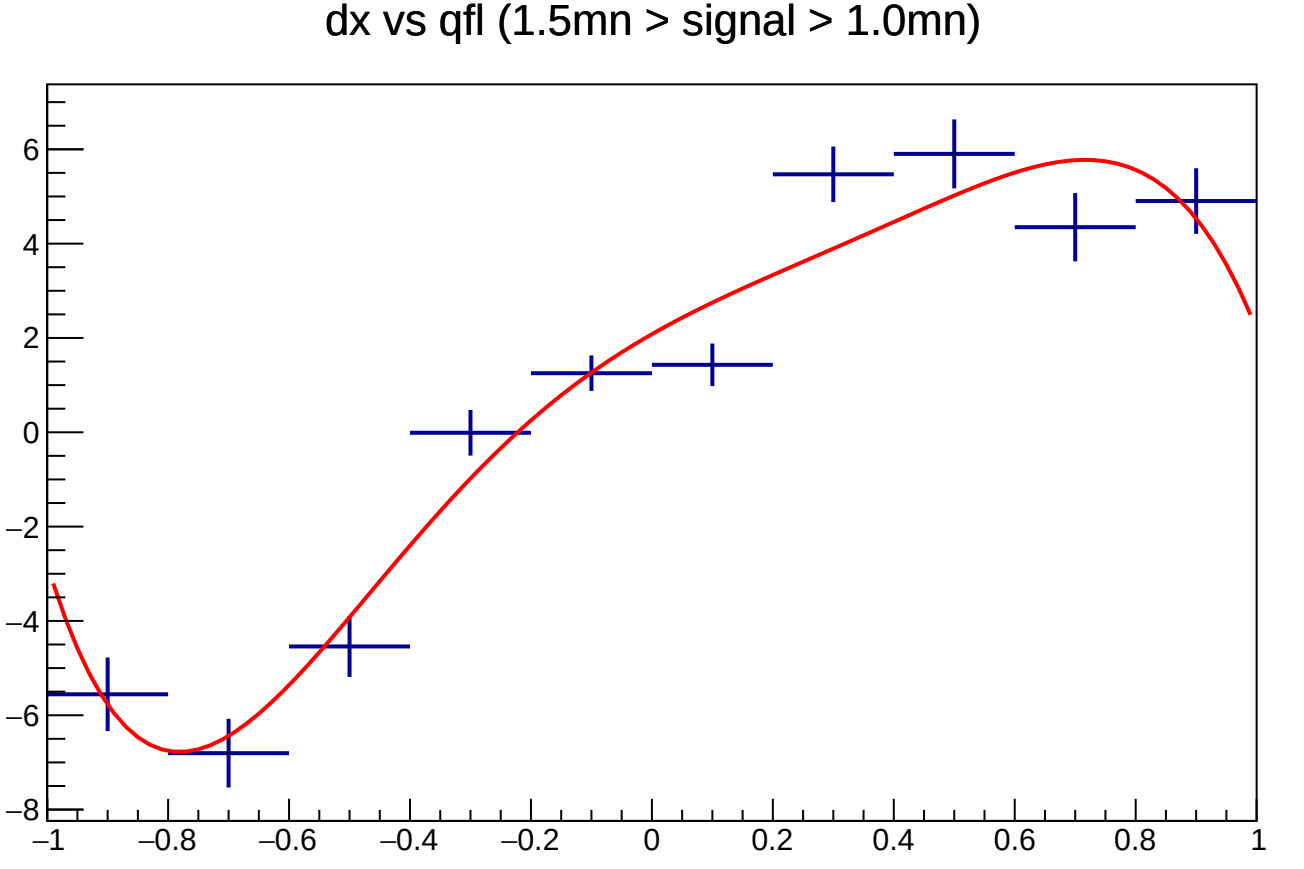

dy vs qfl (1.5mn > signal > 1.0mn)
20
15
10
5
0
−5
−10
−15
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

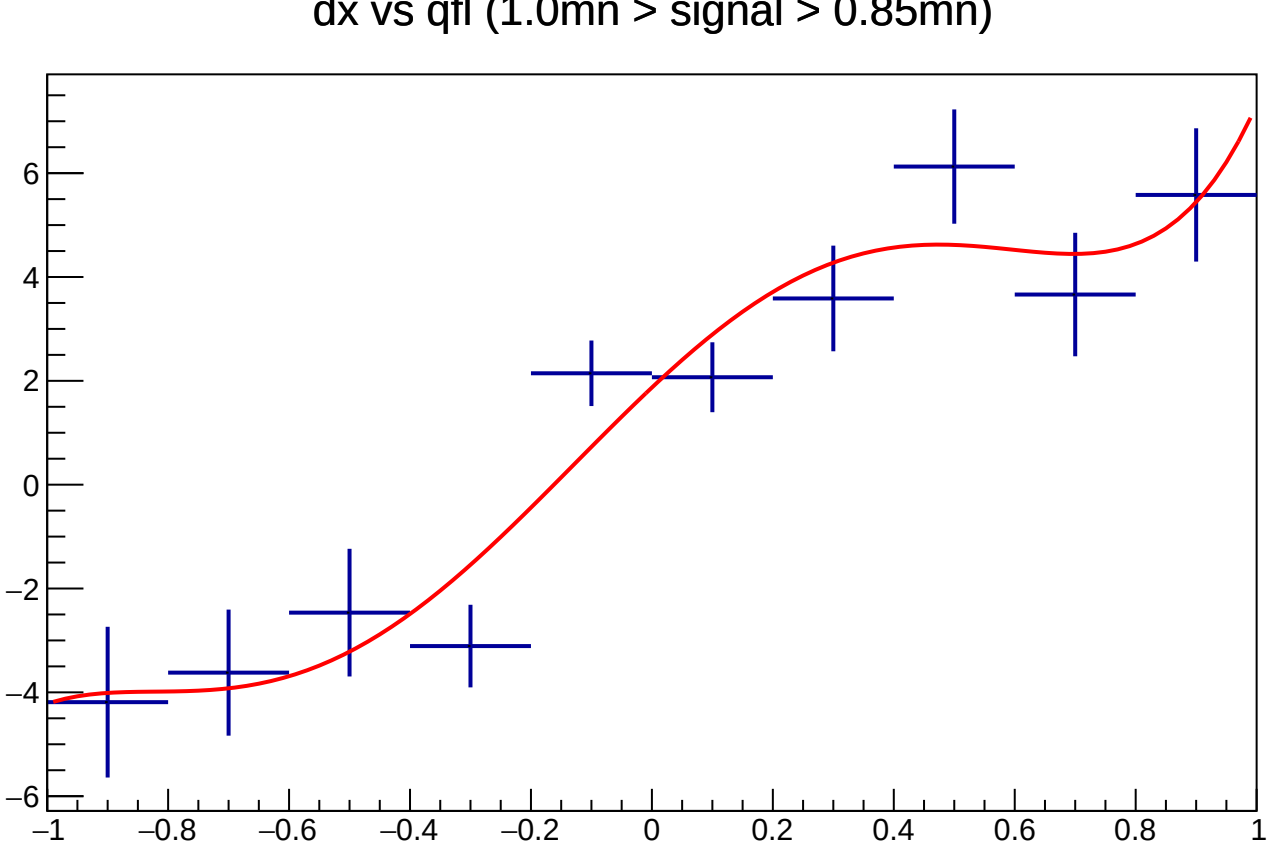

dy vs qfl (1.0mn > signal > 0.85mn)
30
20
10
0
−10
−20
−30
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1

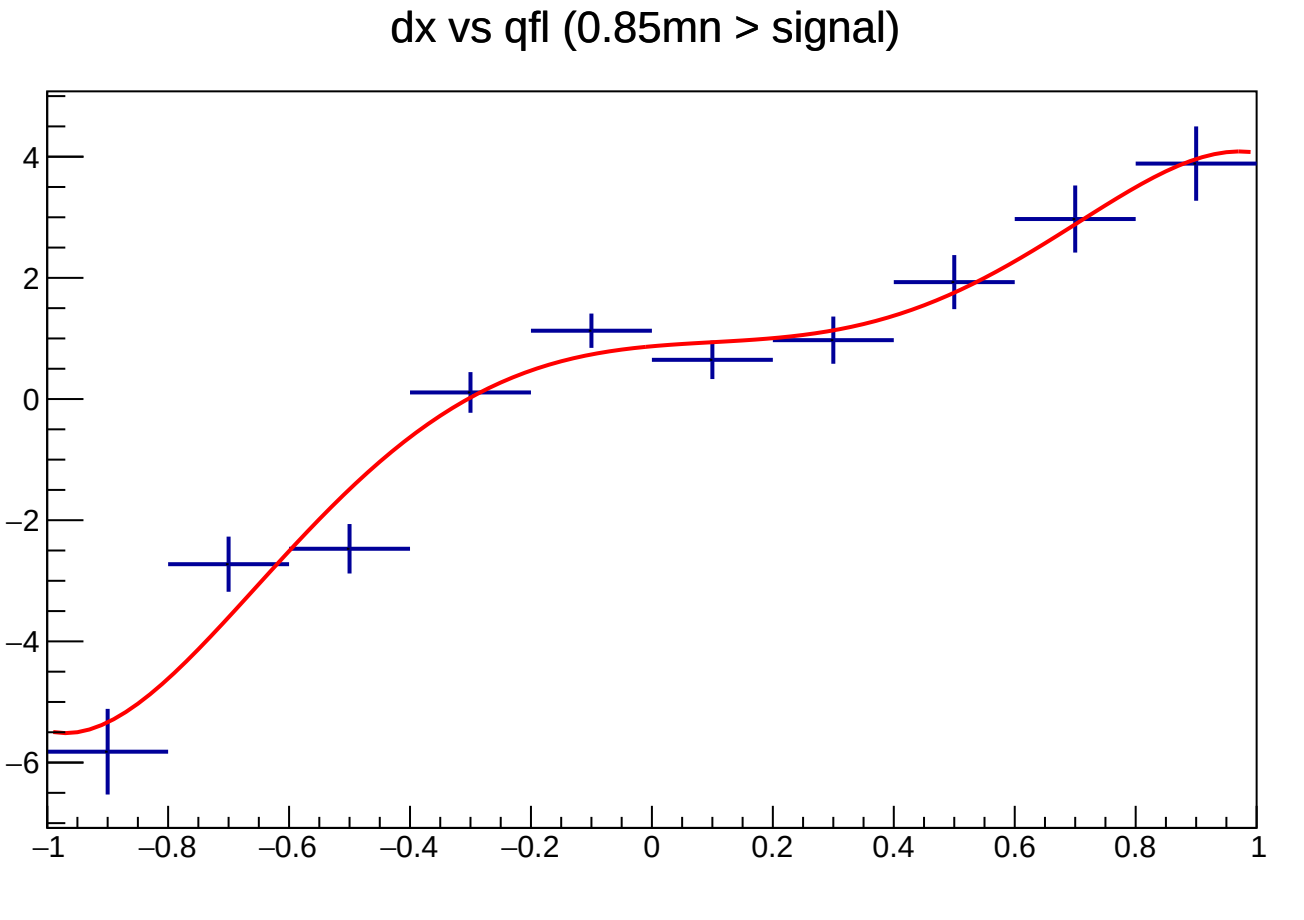

dy vs qfl (0.85mn > signal)
30
20
10
0
−10
−20
−30
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1


dx vs qfl (all sig)
6
4
2
0
−2
−4
−6
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1


dx vs qfl (signal > 1.5mn)
8
6
4
2
0
−2
−4
−6
−8
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1


dx vs qfl (1.5mn > signal > 1.0mn)
6
4
2
0
−2
−4
−6
−8
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1


dx vs qfl (1.0mn > signal > 0.85mn)
6
4
2
0
−2
−4
−6
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1


dx vs qfl (0.85mn > signal)
4
2
0
−2
−4
−6
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1