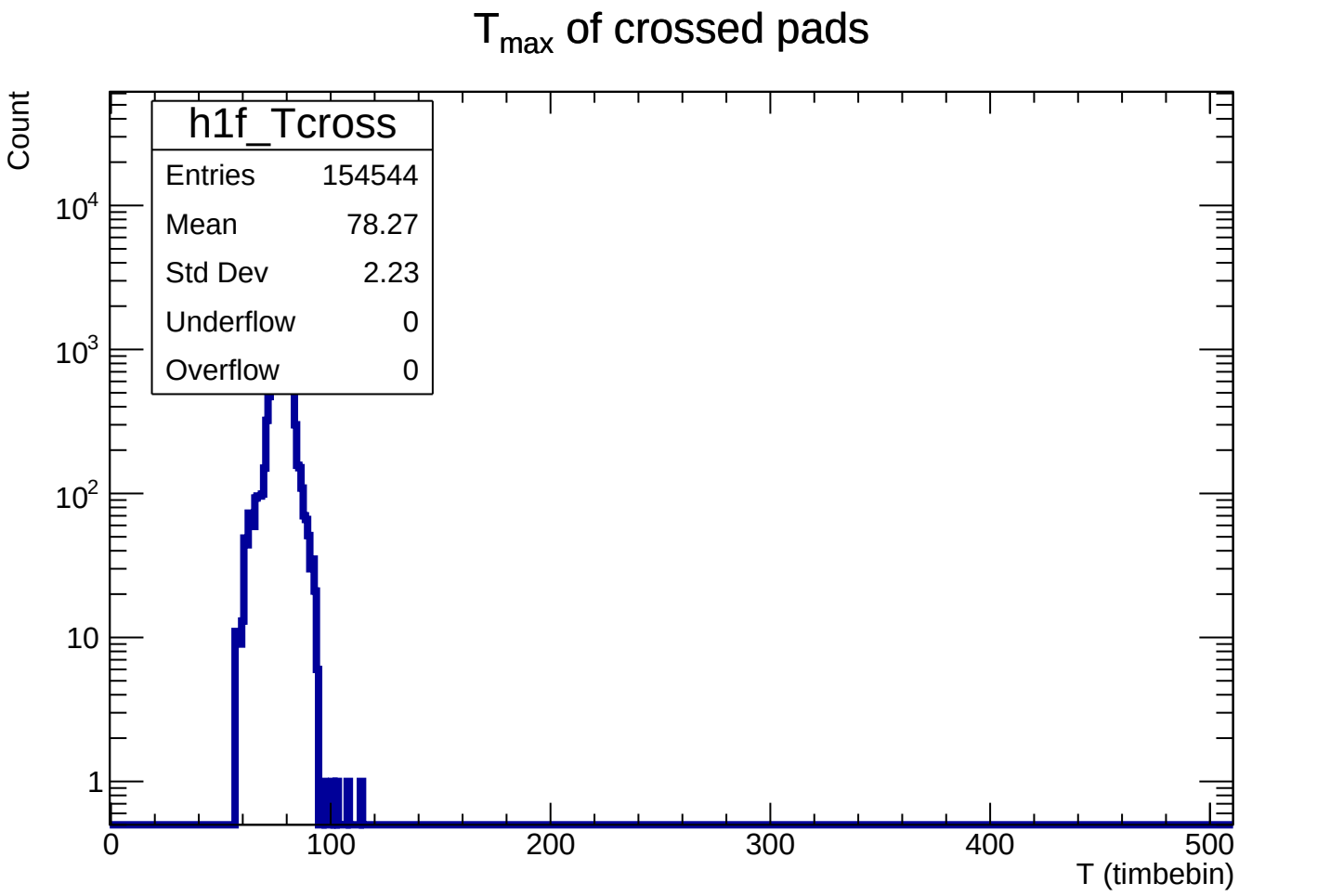
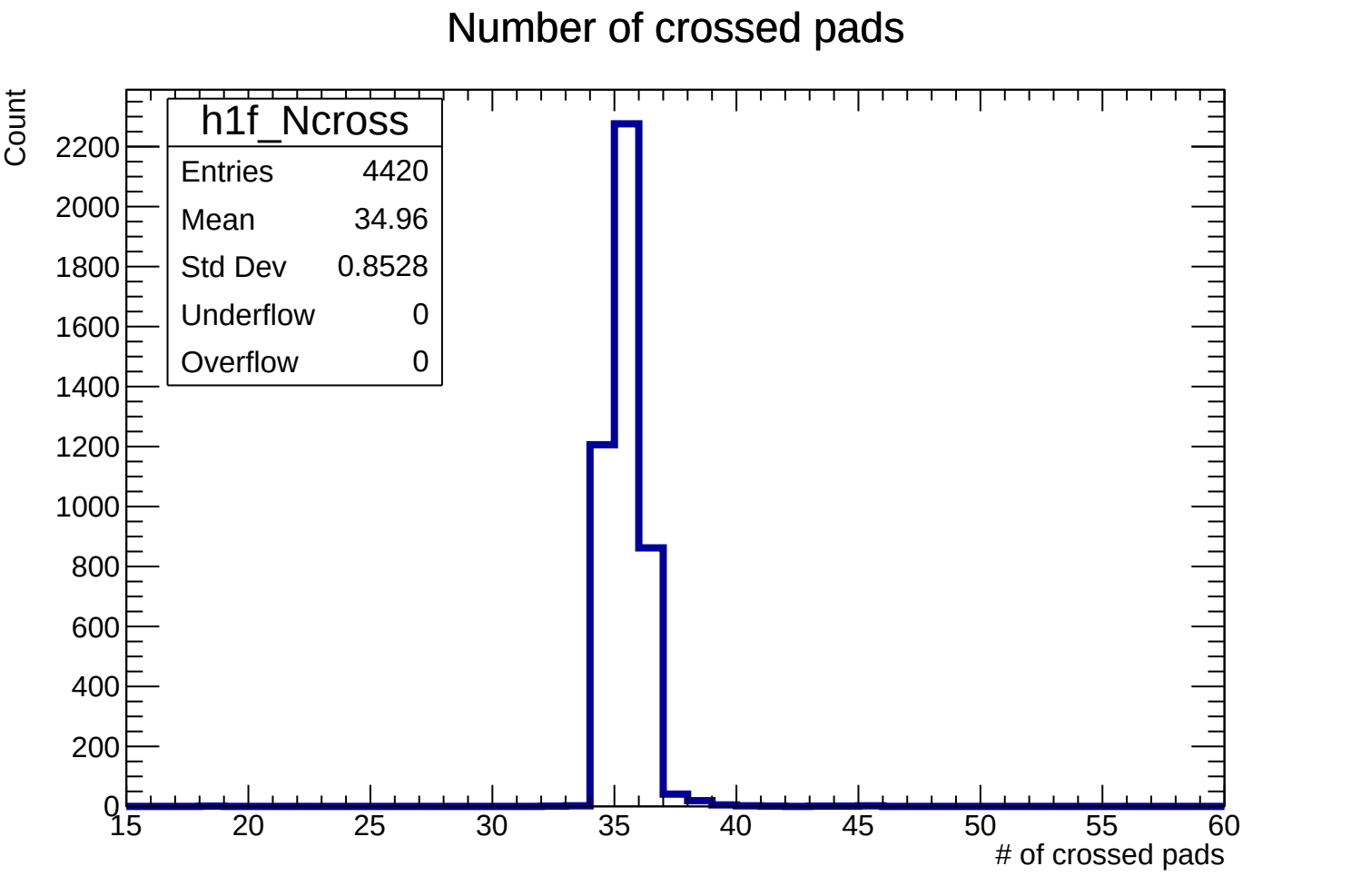
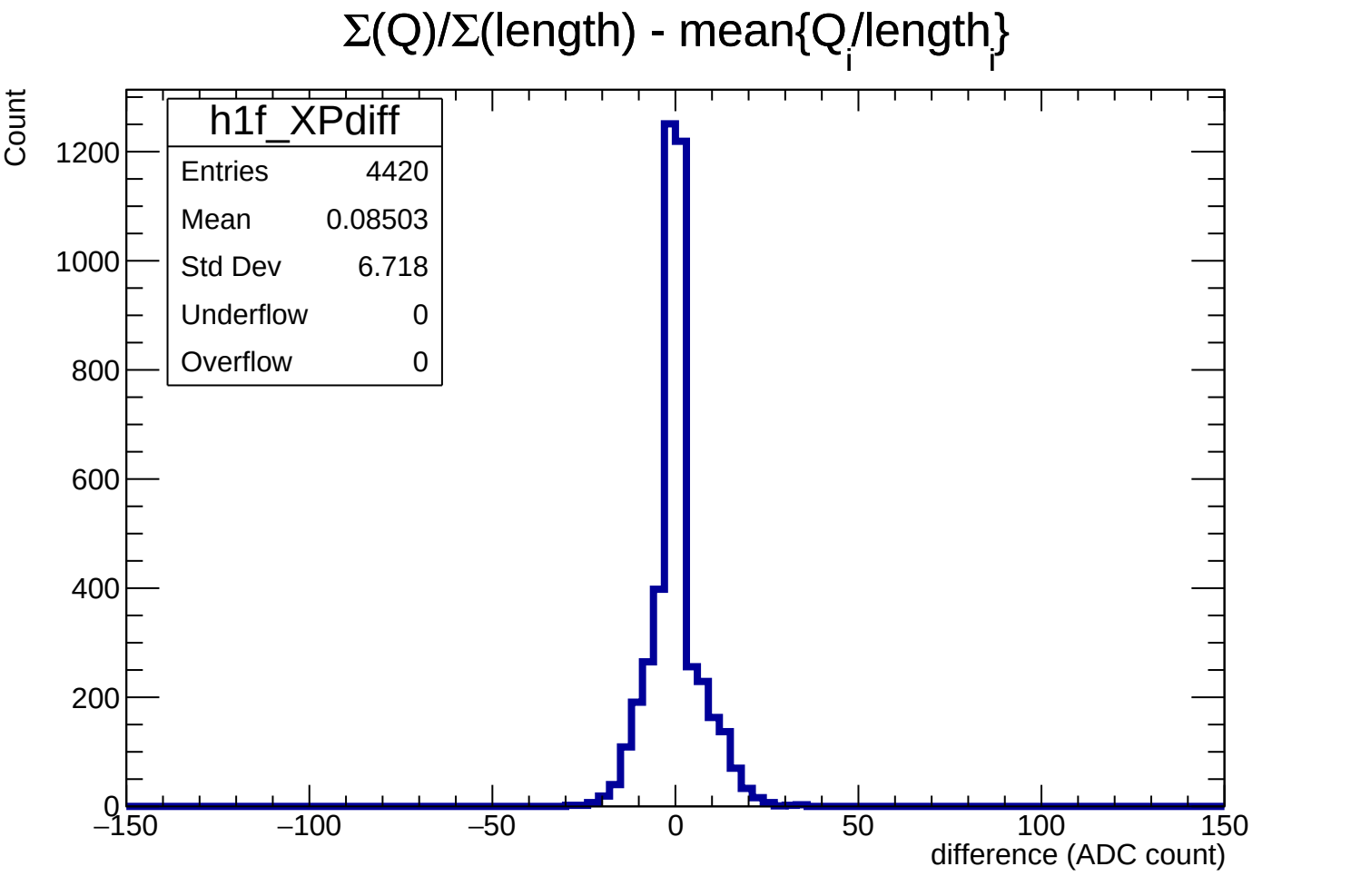
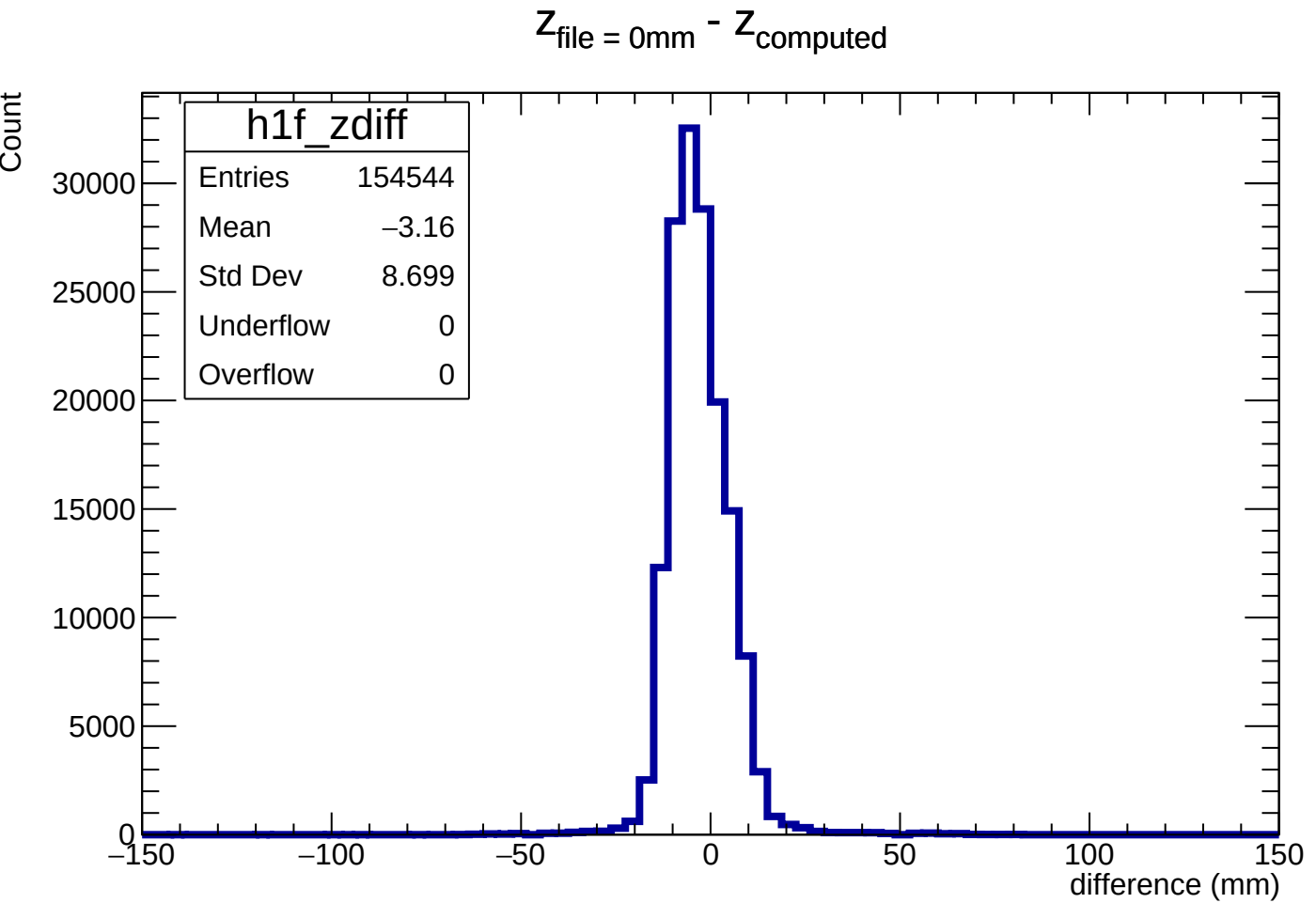
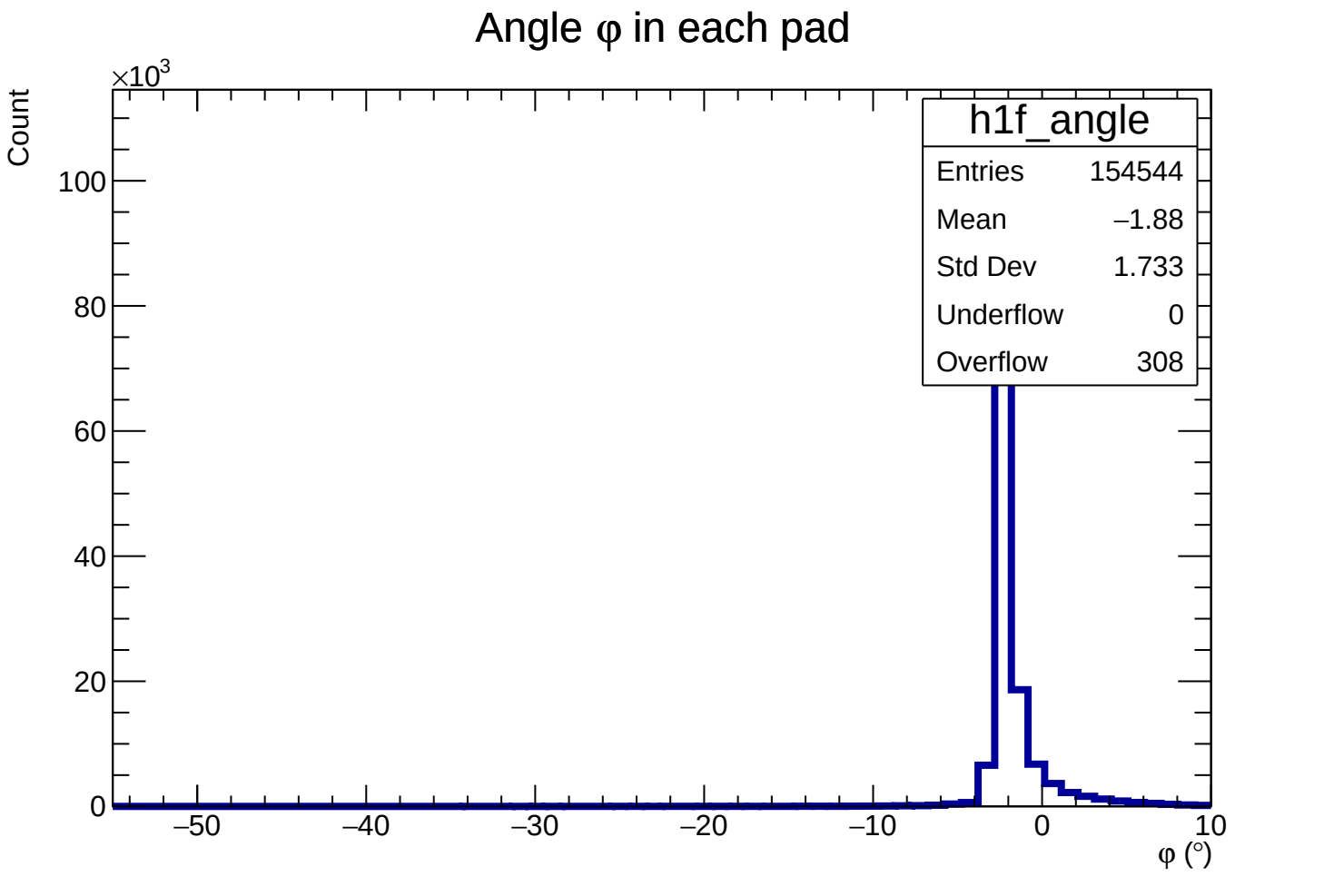
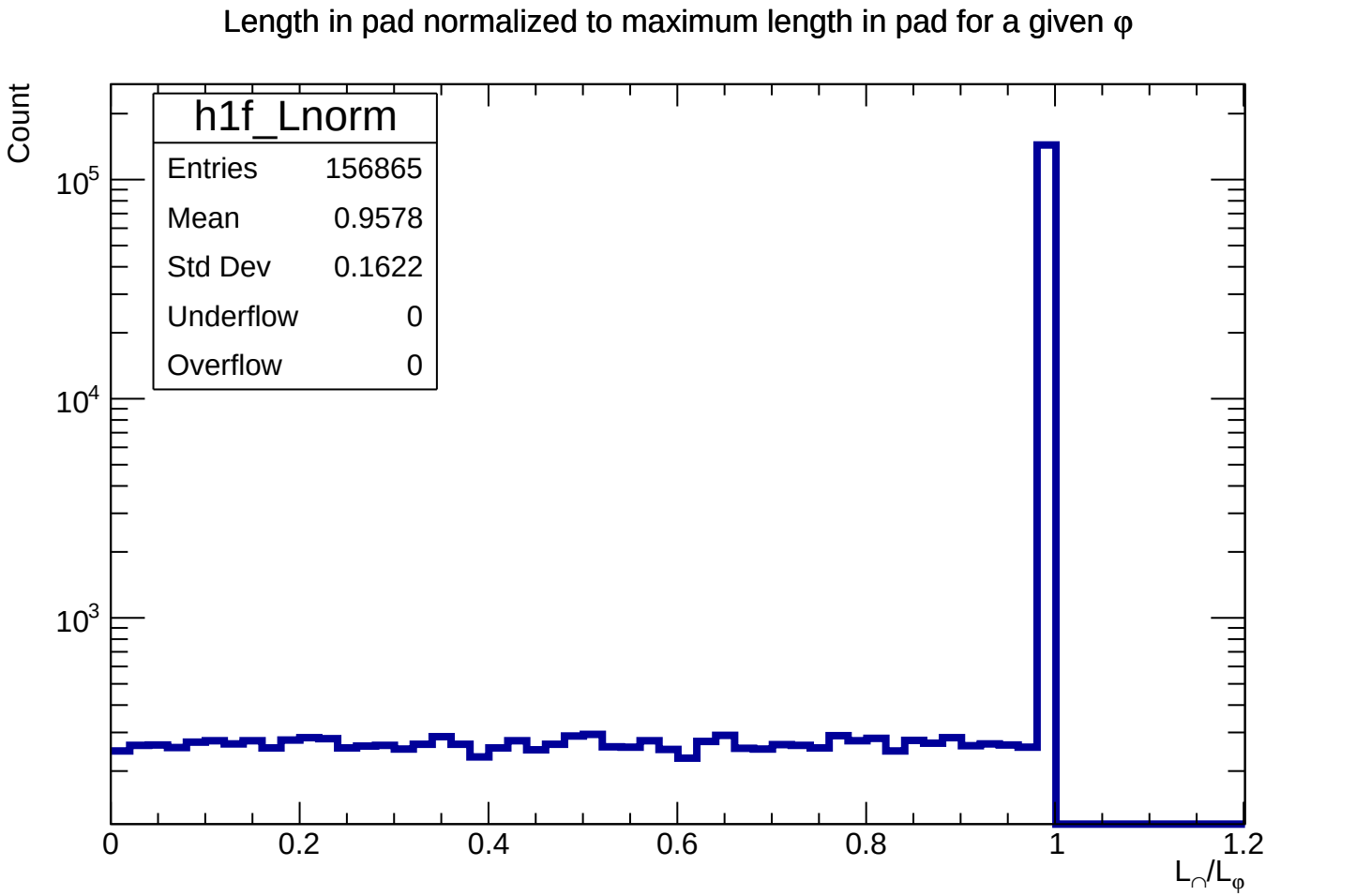

T_{max} of crossed pads
h1f_Tcross
Entries 154544
Mean 78.27
Std Dev 2.23
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

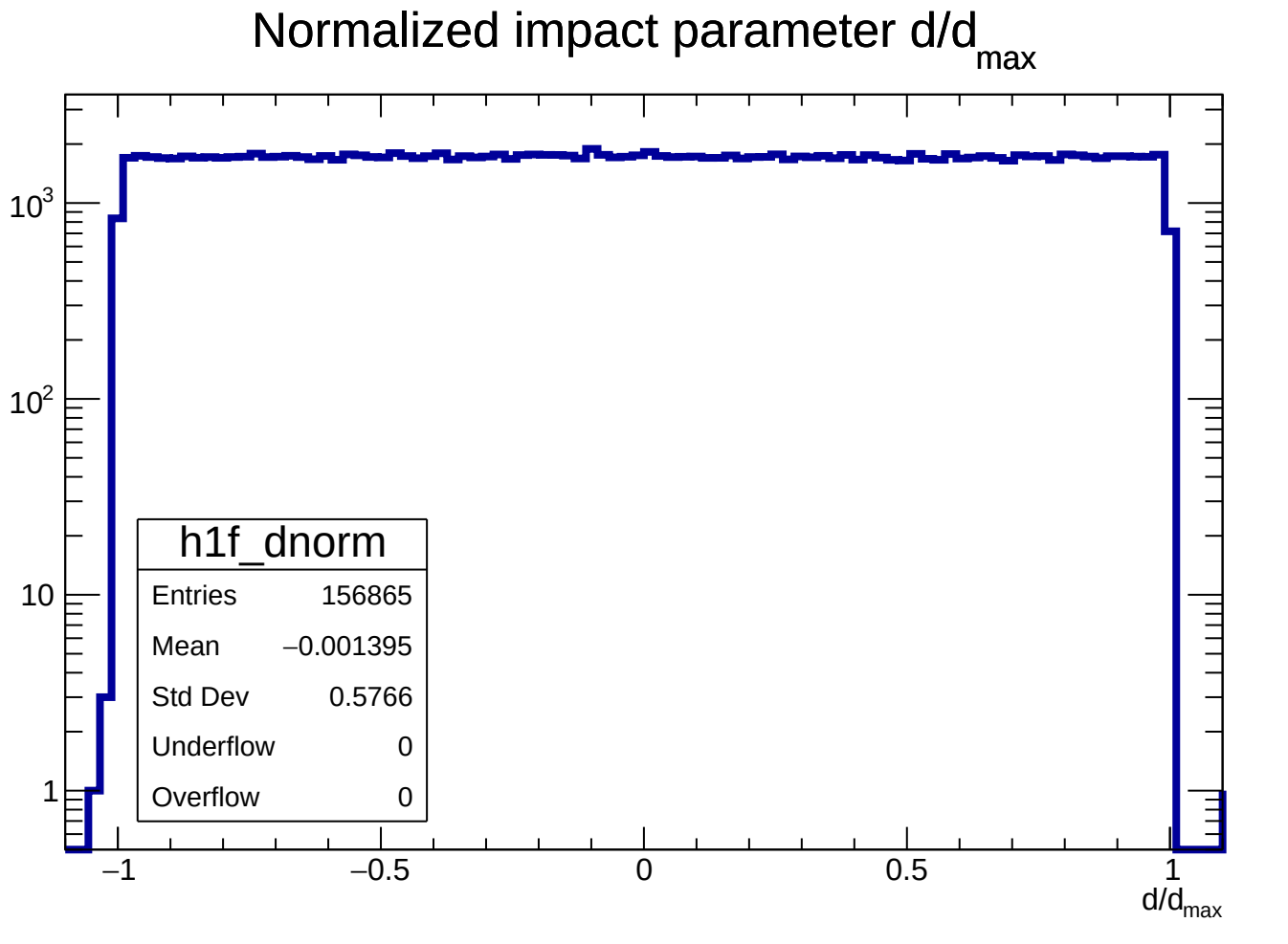

Number of crossed pads
h1f_Ncross
Entries 4420
Mean 34.96
Std Dev 0.8528
Underflow 0
Overflow 0
Count
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
15
20
25
30
35
40
45
50
55
60
# of crossed pads

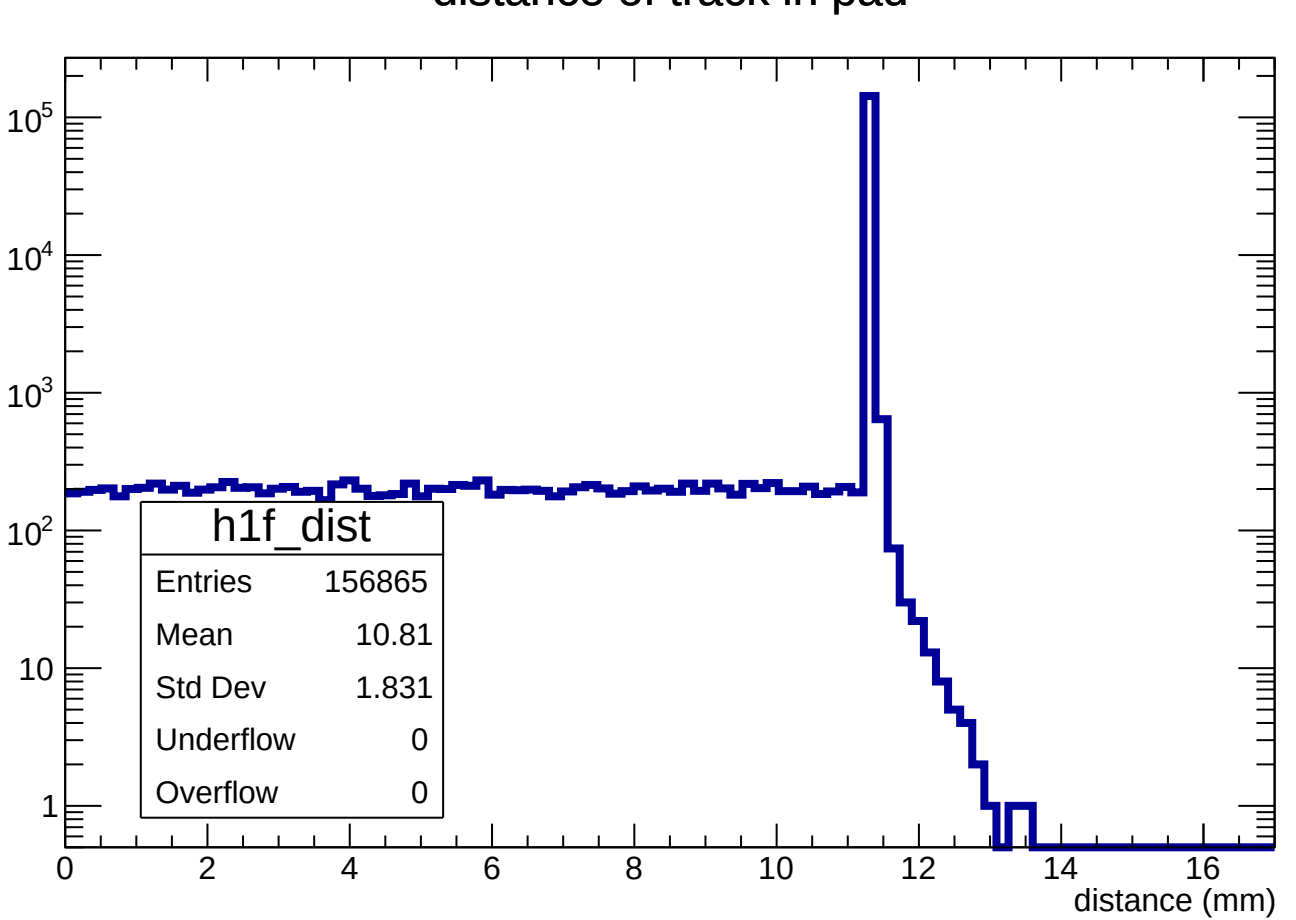

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 4420
Mean 0.08503
Std Dev 6.718
Underflow 0
Overflow 0
Count
1200
1000
800
600
400
200
0
–150
–100
–50
0
50
100
150
difference (ADC count)

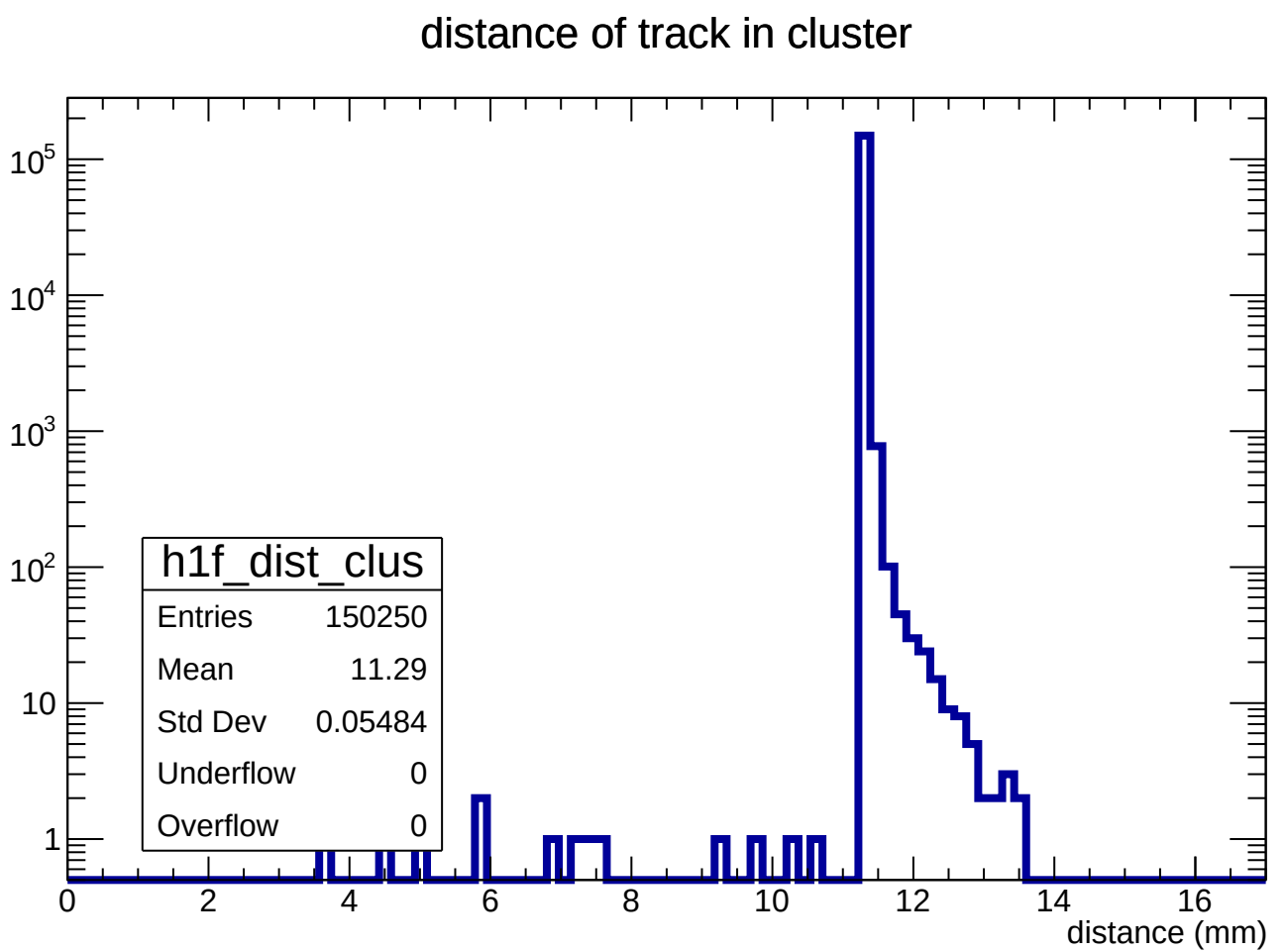

$z_{file = 0mm} - z_{computed}$
h1f_zdiff
Entries 154544
Mean –3.16
Std Dev 8.699
Underflow 0
Overflow 0
Count
30000
25000
20000
15000
10000
5000
0
–150
–100
–50
0
50
100
150
difference (mm)

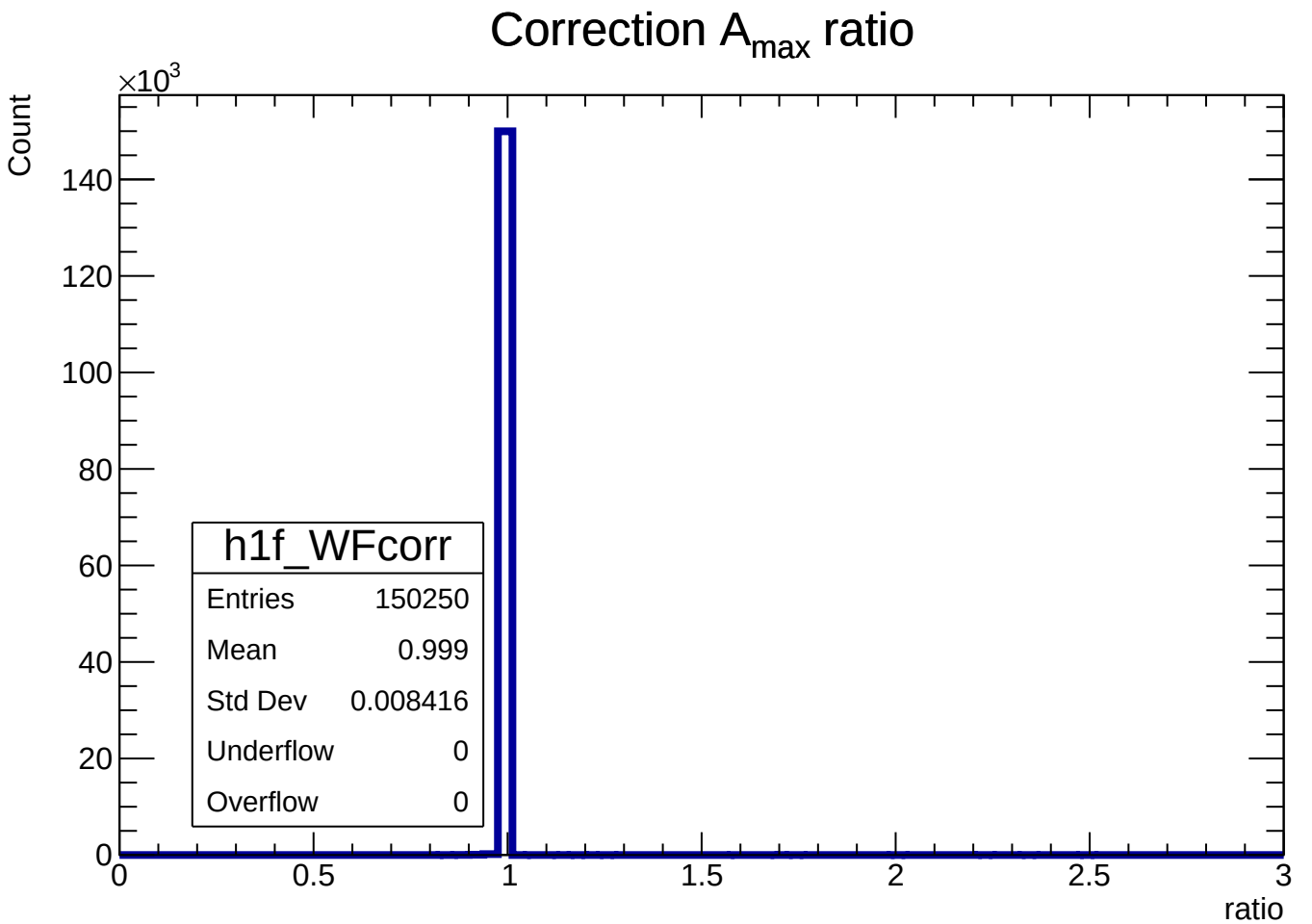

Angle φ in each pad
Count
×10^3
100
80
60
40
20
0
h1f_angle
Entries 154544
Mean −1.88
Std Dev 1.733
Underflow 0
Overflow 308
−50
−40
−30
−20
−10
0
10
φ (°)

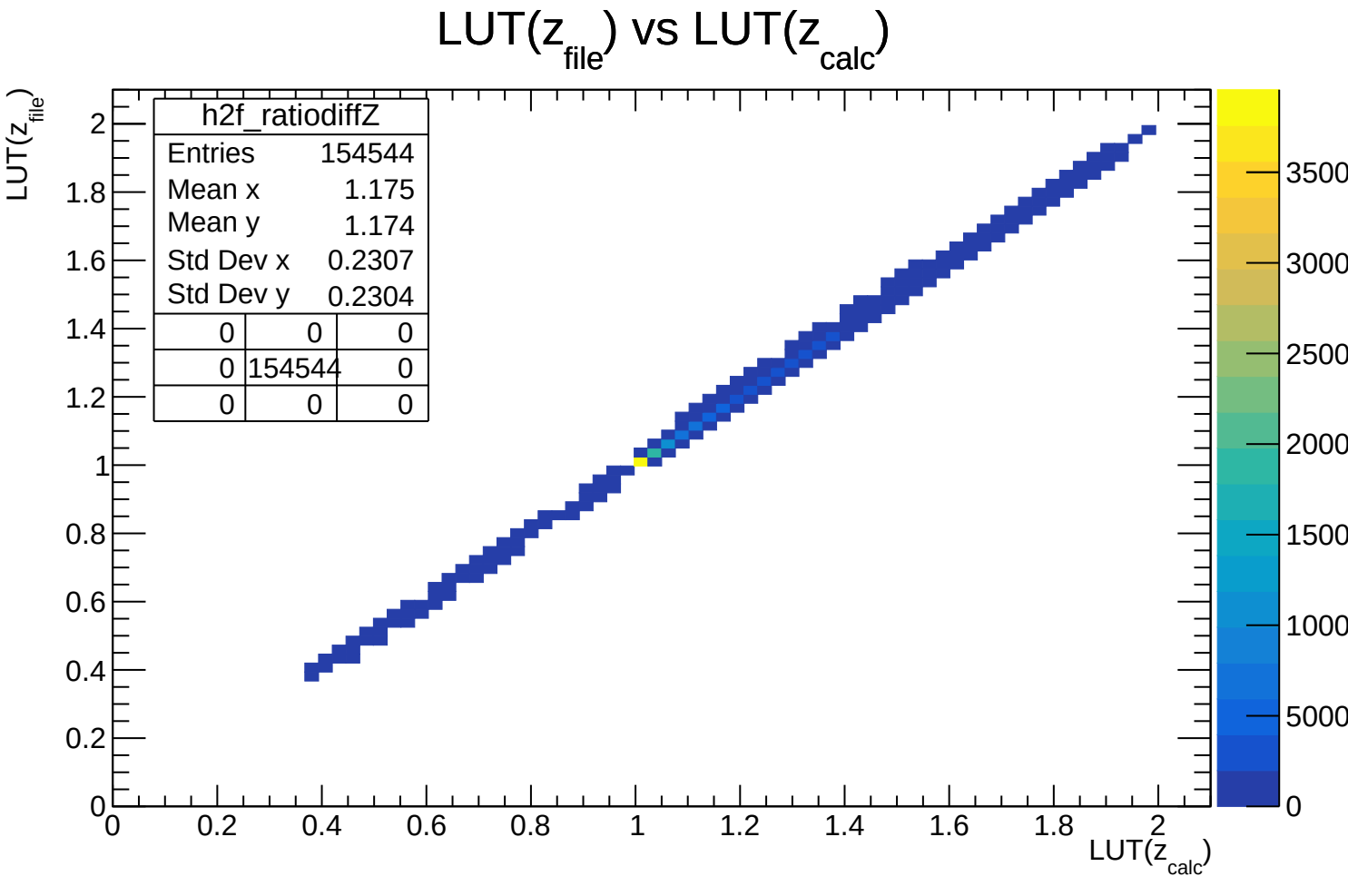

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 156865
Mean 0.9578
Std Dev 0.1622
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

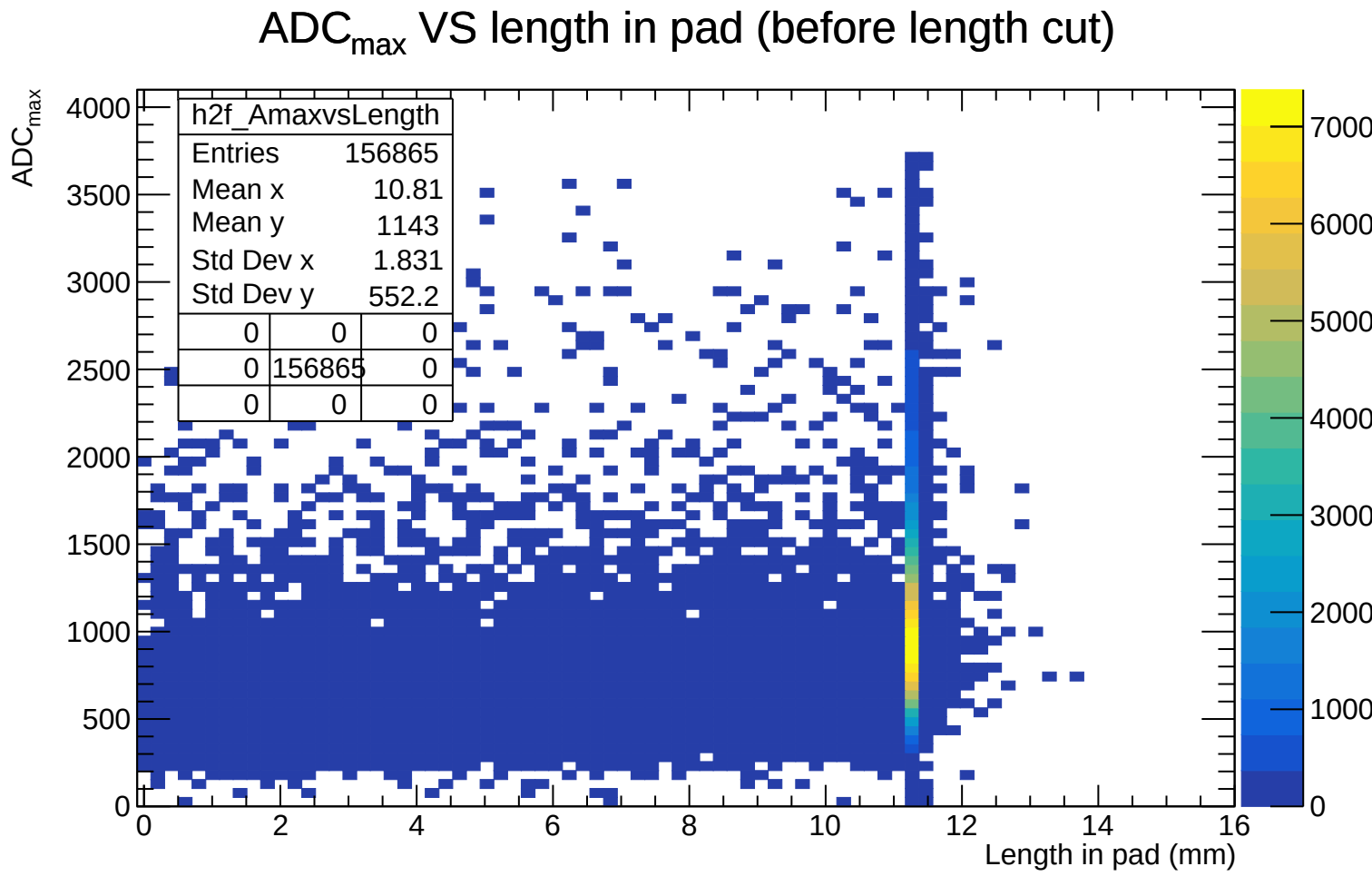

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 156865
Mean −0.001395
Std Dev 0.5766
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

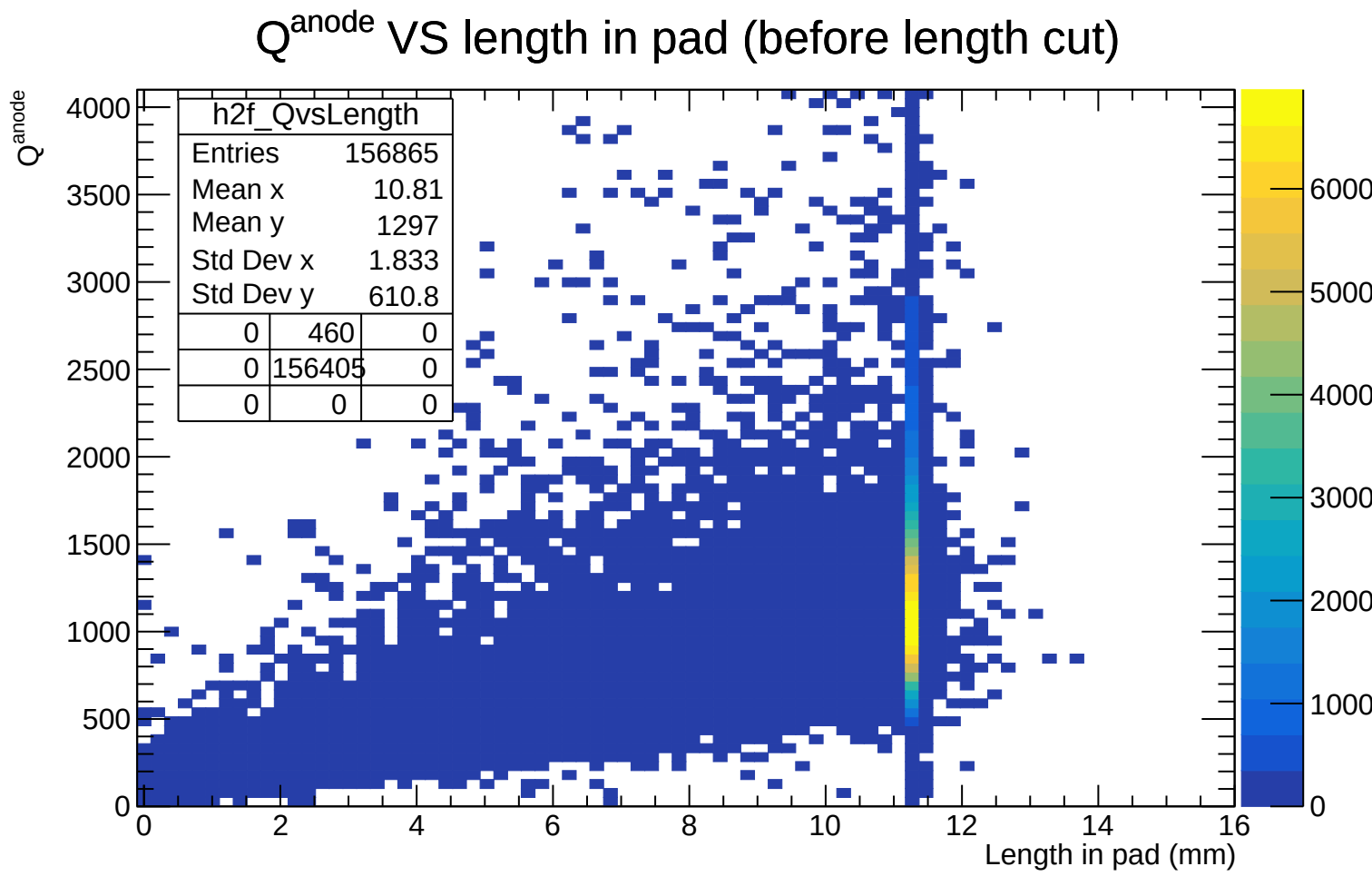

distance of track in pad
h1f_dist
Entries 156865
Mean 10.81
Std Dev 1.831
Underflow 0
Overflow 0
distance (mm)

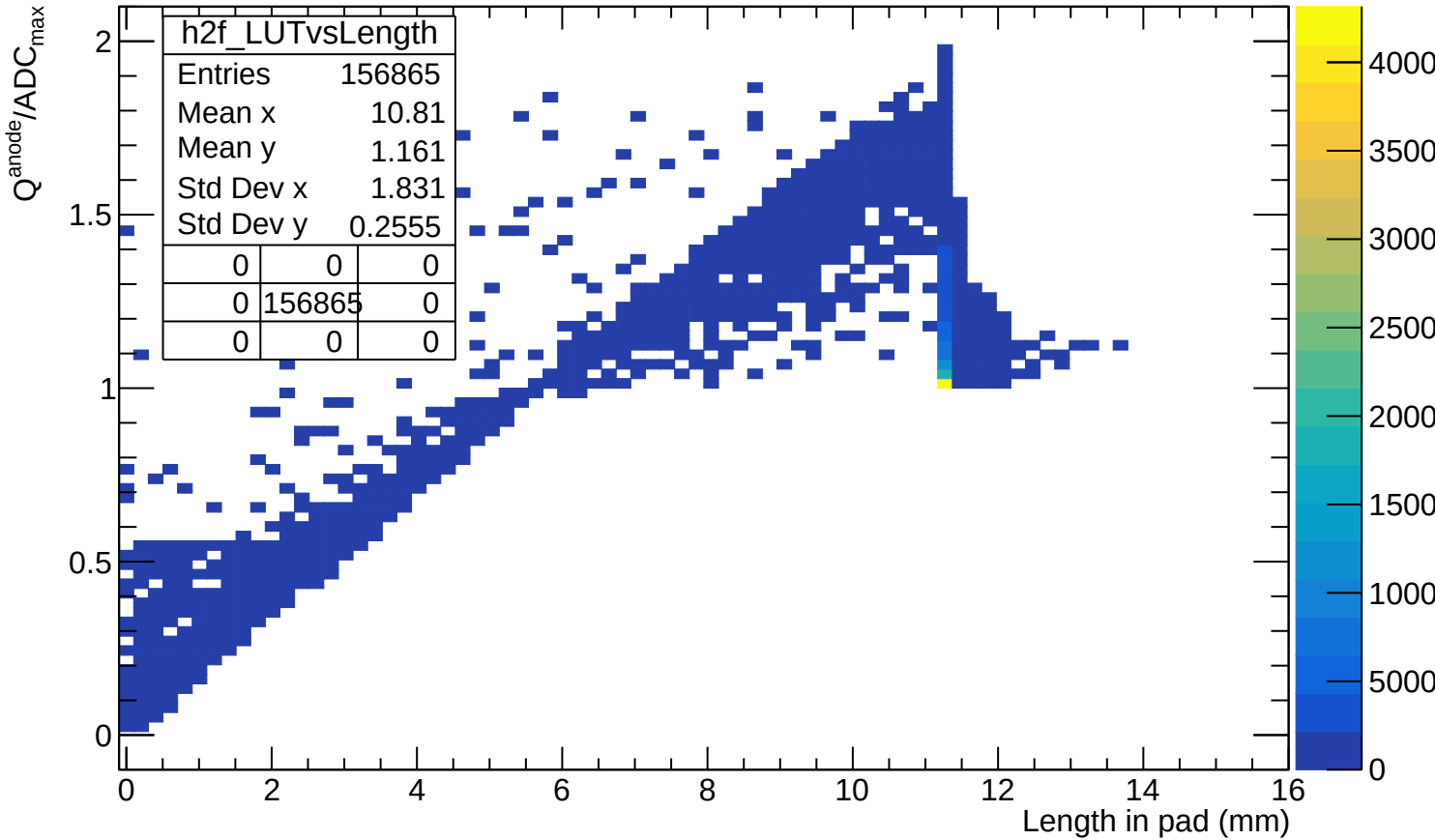

distance of track in cluster
h1f_dist_clus
Entries 150250
Mean 11.29
Std Dev 0.05484
Underflow 0
Overflow 0
distance (mm)

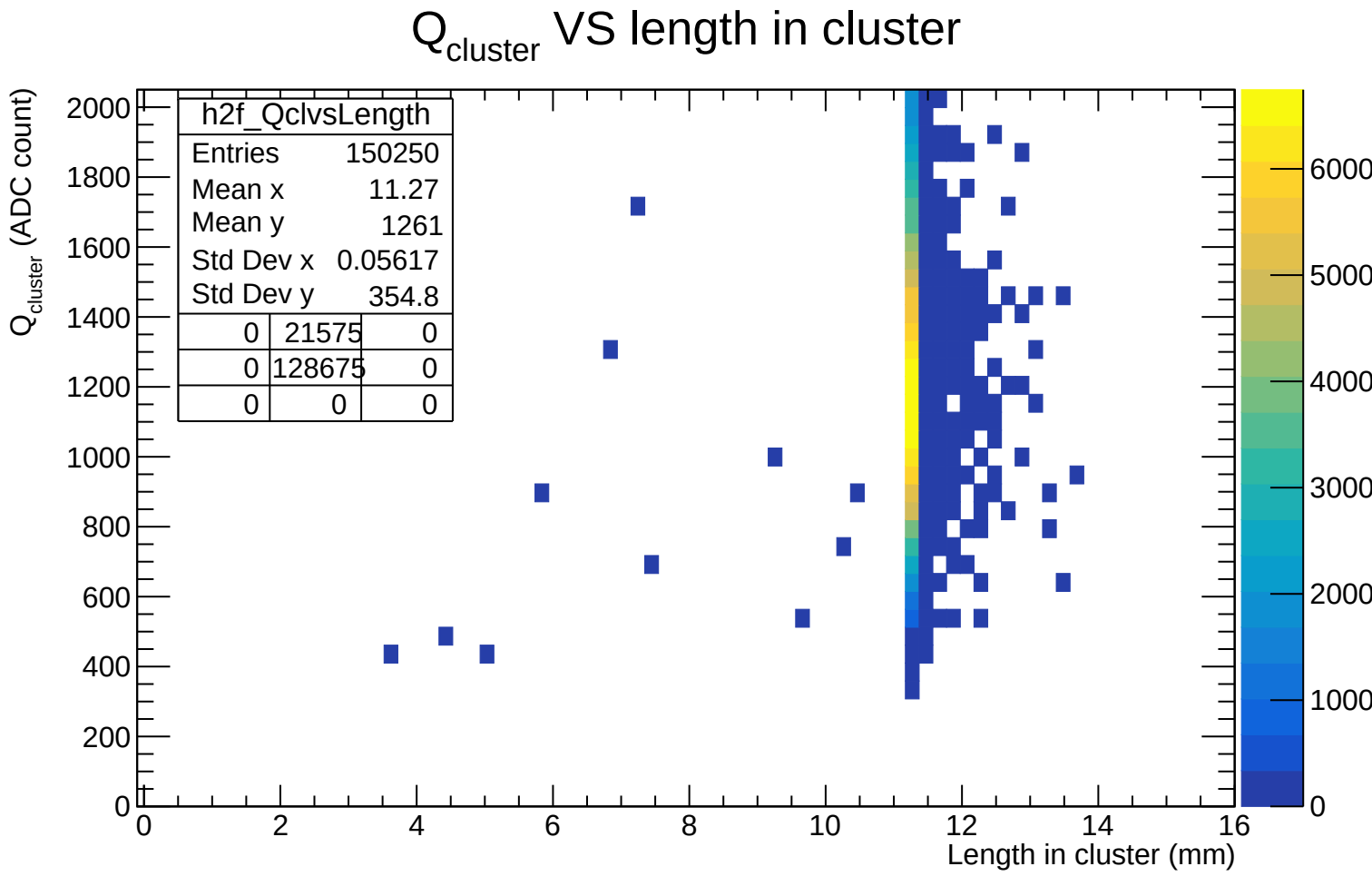

Correction A_{max} ratio
$\times 10^3$
Count
140
120
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 150250
Mean 0.999
Std Dev 0.008416
Underflow 0
Overflow 0

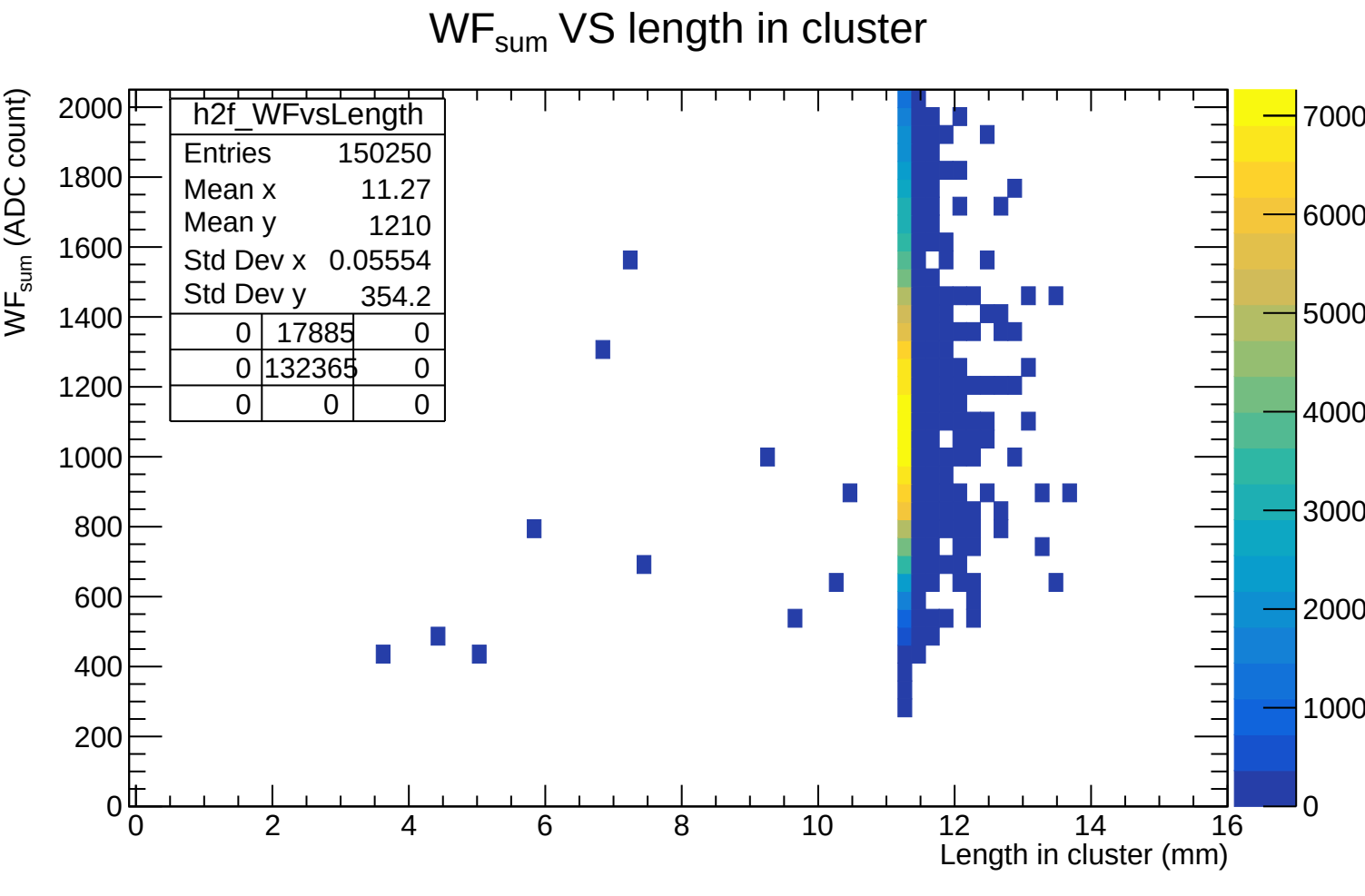

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 154544
Mean x 1.175
Mean y 1.174
Std Dev x 0.2307
Std Dev y 0.2304
0 0 0
0 154544 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 500 1000 1500 2000 2500 3000 3500

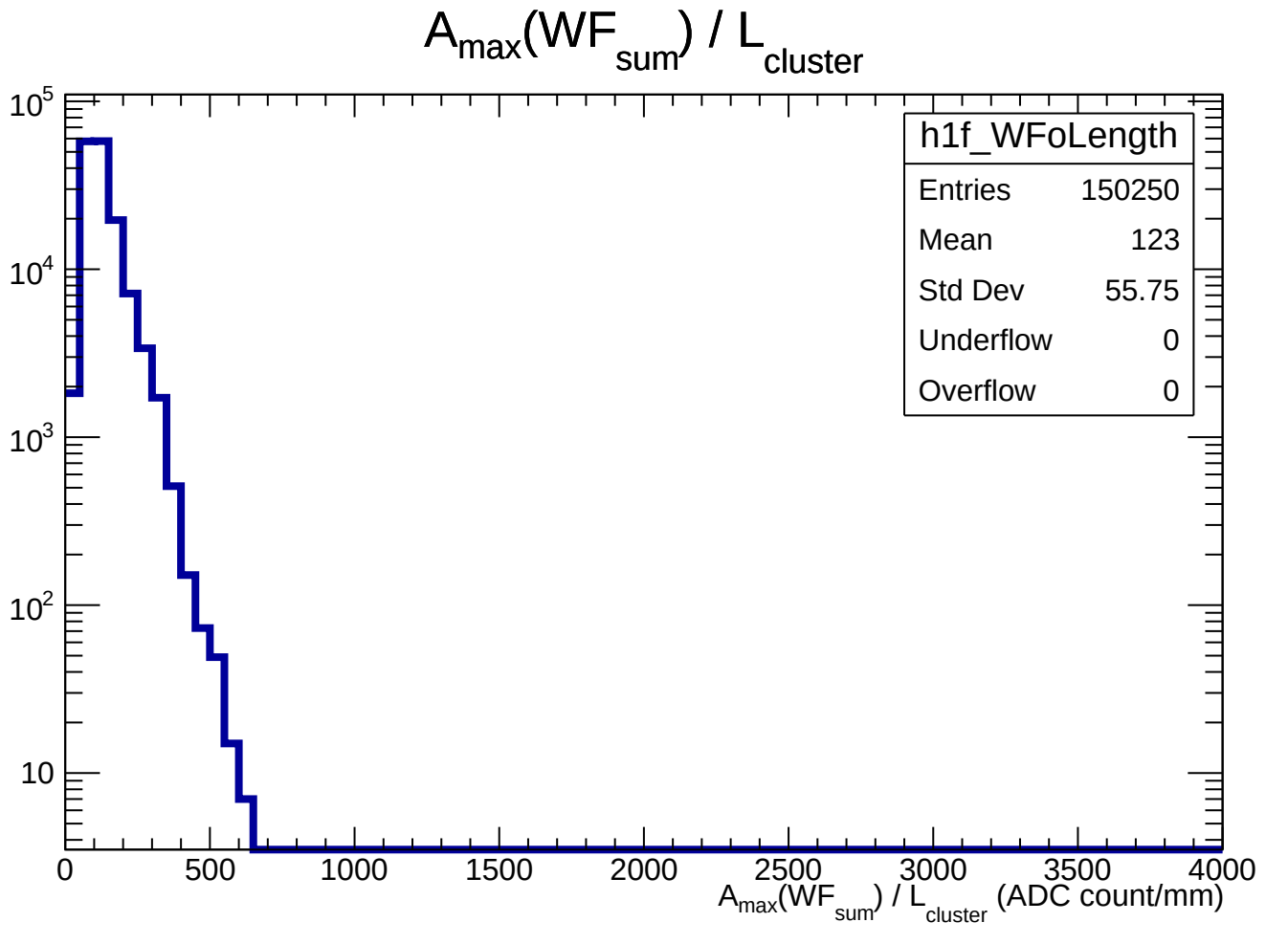

ADC$_{max}$ VS length in pad (before length cut)
ADC$_{max}$
Length in pad (mm)
h2f_AmaxvsLength
Entries 156865
Mean x 10.81
Mean y 1143
Std Dev x 1.831
Std Dev y 552.2
0 0 0
0 156865 0
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 1000 2000 3000 4000 5000 6000 7000

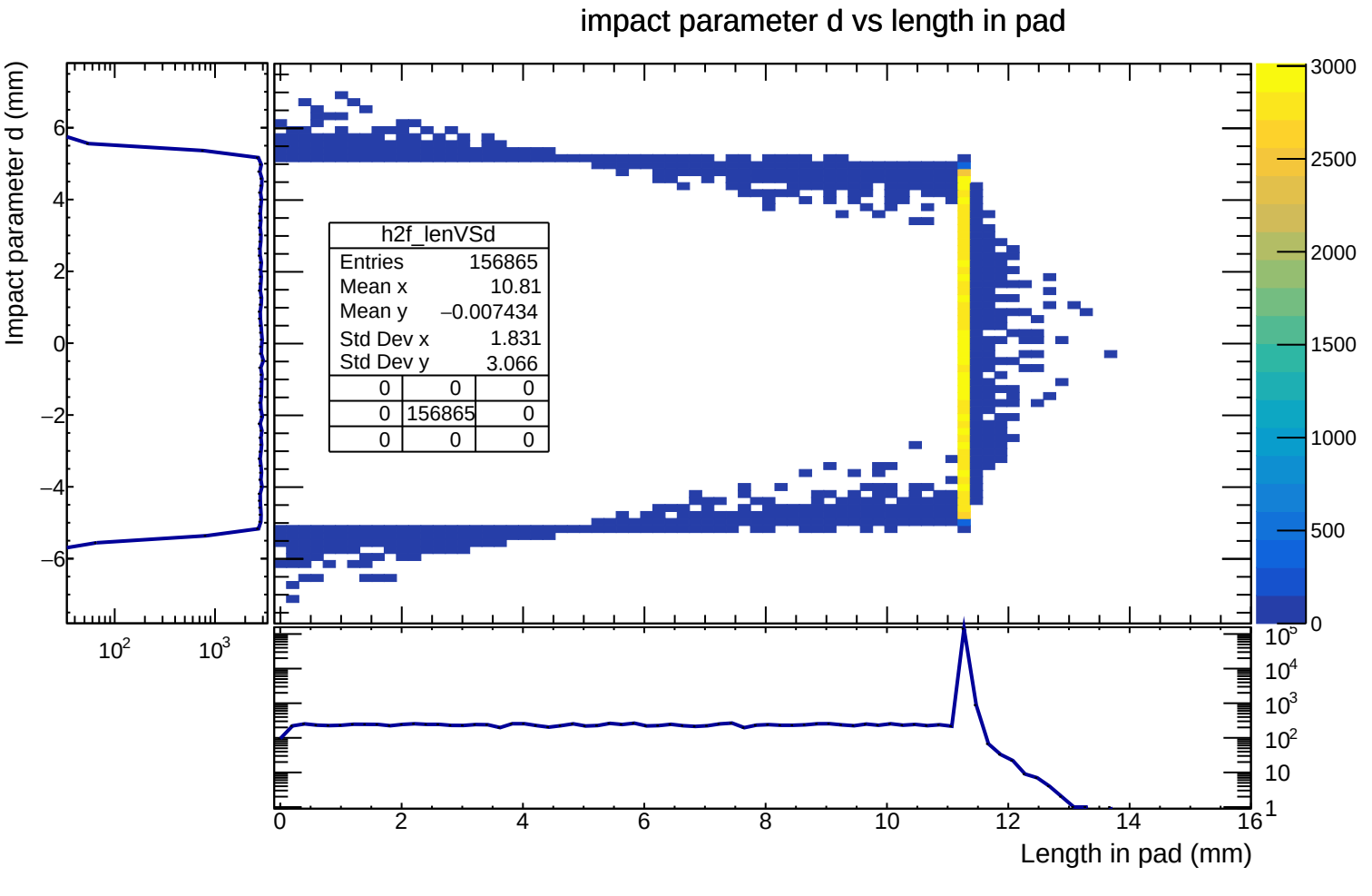

Q^anode VS length in pad (before length cut)
Q^anode
Length in pad (mm)
h2f_QvsLength
Entries 156865
Mean x 10.81
Mean y 1297
Std Dev x 1.833
Std Dev y 610.8
0 460 0
0 156405 0
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 1000 2000 3000 4000 5000 6000


Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 156865
Mean x 10.81
Mean y 1.161
Std Dev x 1.831
Std Dev y 0.2555
0 0 0
0 156865 0
0 0 0
Q^{anode}/ADC_{max}
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
500
1000
1500
2000
2500
3000
3500
4000


$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 150250
Mean x 11.27
Mean y 1261
Std Dev x 0.05617
Std Dev y 354.8
0 21575 0
0 128675 0
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 1000 2000 3000 4000 5000 6000


WF_sum VS length in cluster
h2f_WFvsLength
Entries 150250
Mean x 11.27
Mean y 1210
Std Dev x 0.05554
Std Dev y 354.2
0 17885 0
0 132365 0
0 0 0
WF_sum (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
0
1000
2000
3000
4000
5000
6000
7000


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 150250
Mean 123
Std Dev 55.75
Underflow 0
Overflow 0
10^5
10^4
10^3
10^2
10
0
500
1000
1500
2000
2500
3000
3500
4000
$A_{max}(WF_{sum}) / L_{cluster}$ (ADC count/mm)


impact parameter d vs length in pad
Impact parameter d (mm)
Length in pad (mm)
h2f_lenVSd
Entries 156865
Mean x 10.81
Mean y −0.007434
Std Dev x 1.831
Std Dev y 3.066
0 0 0
0 156865 0
0 0 0