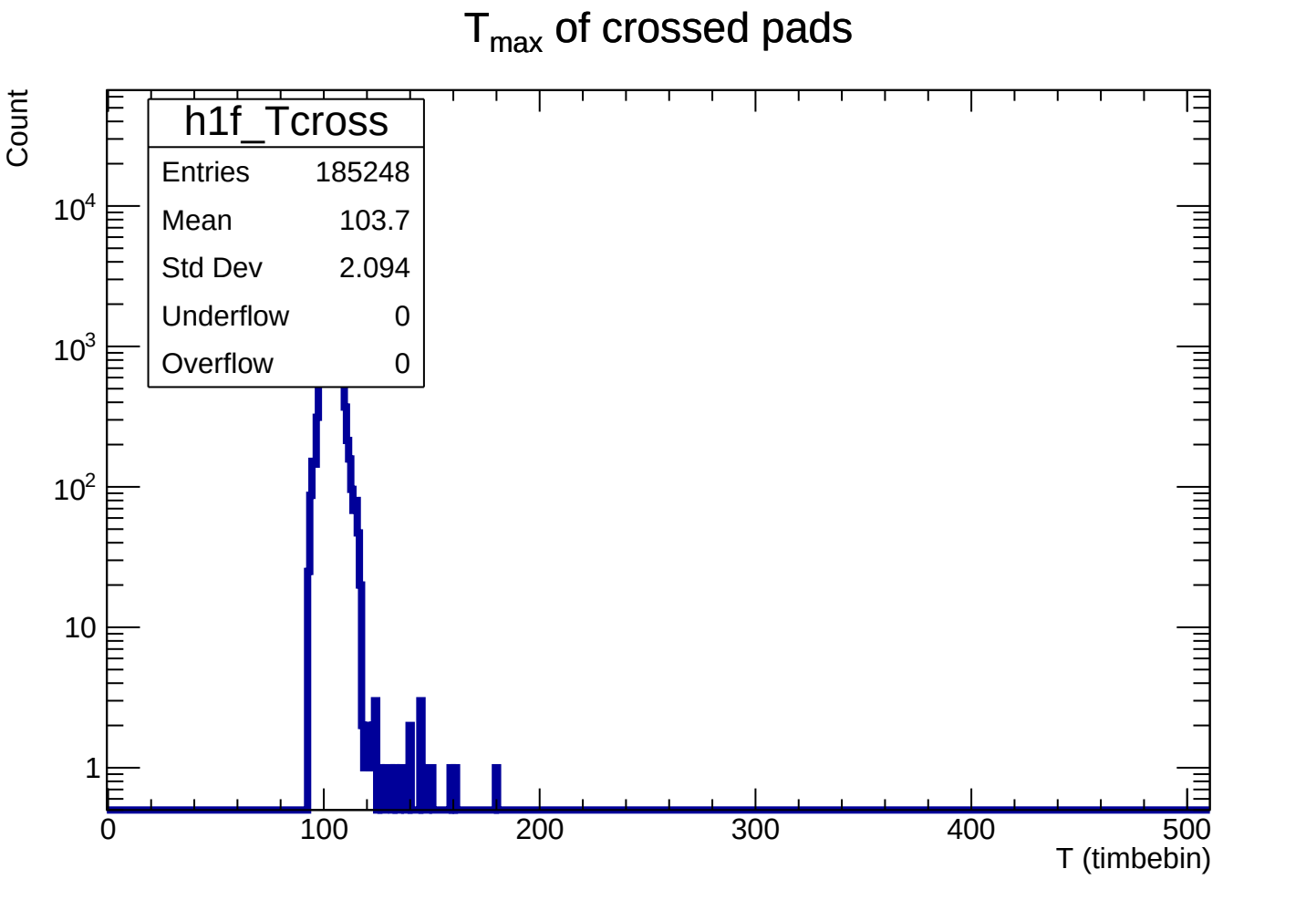
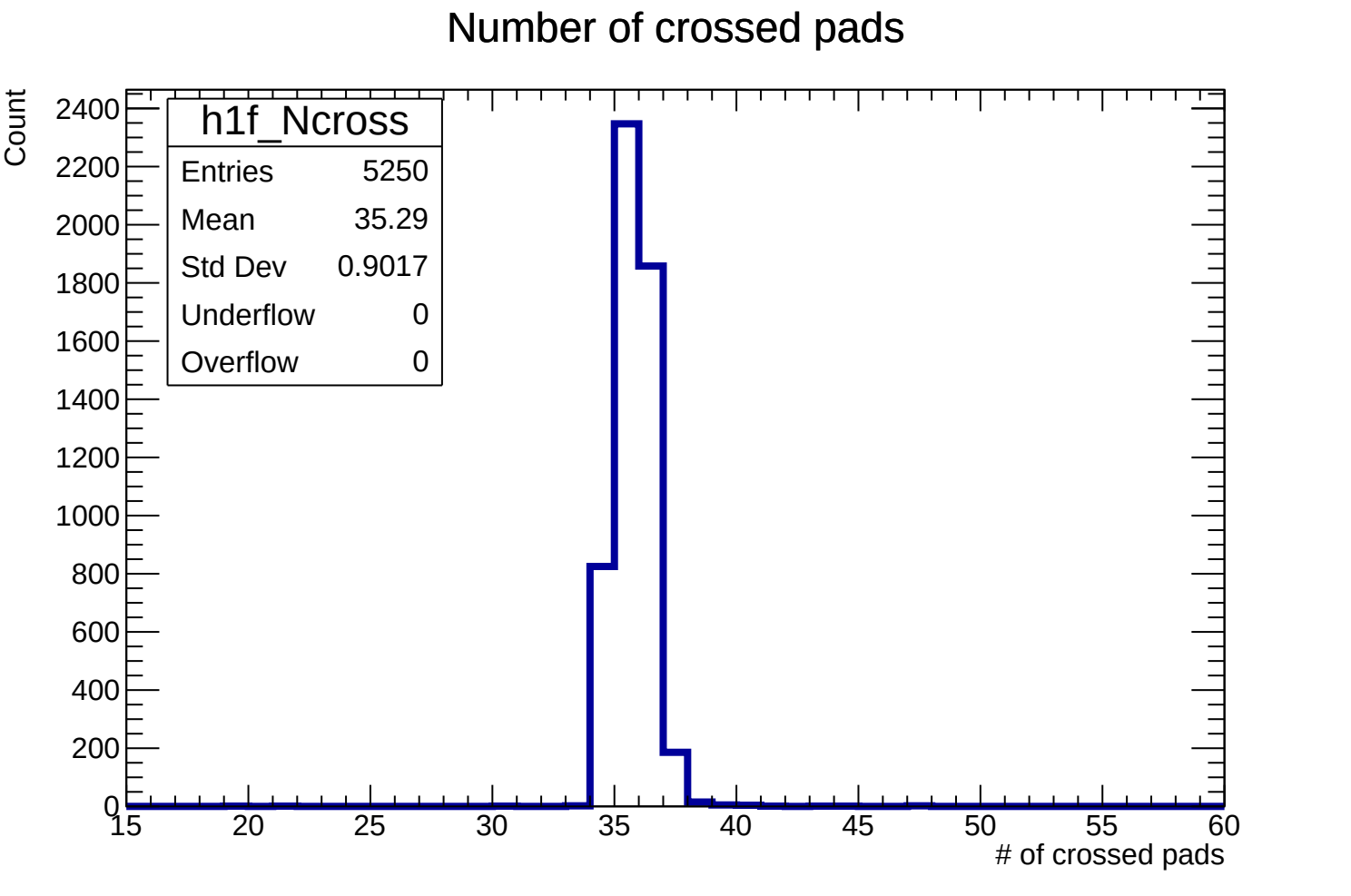
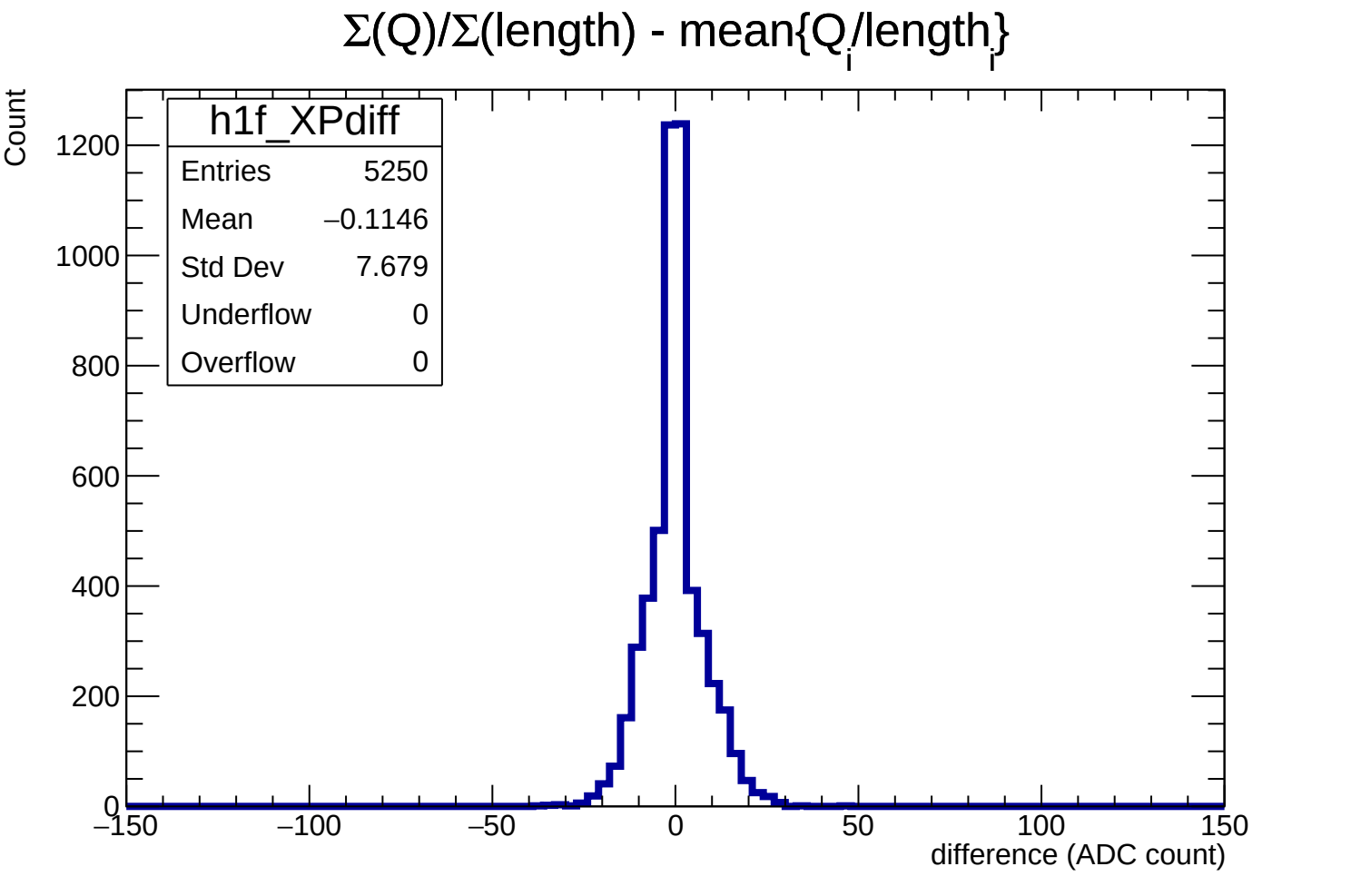
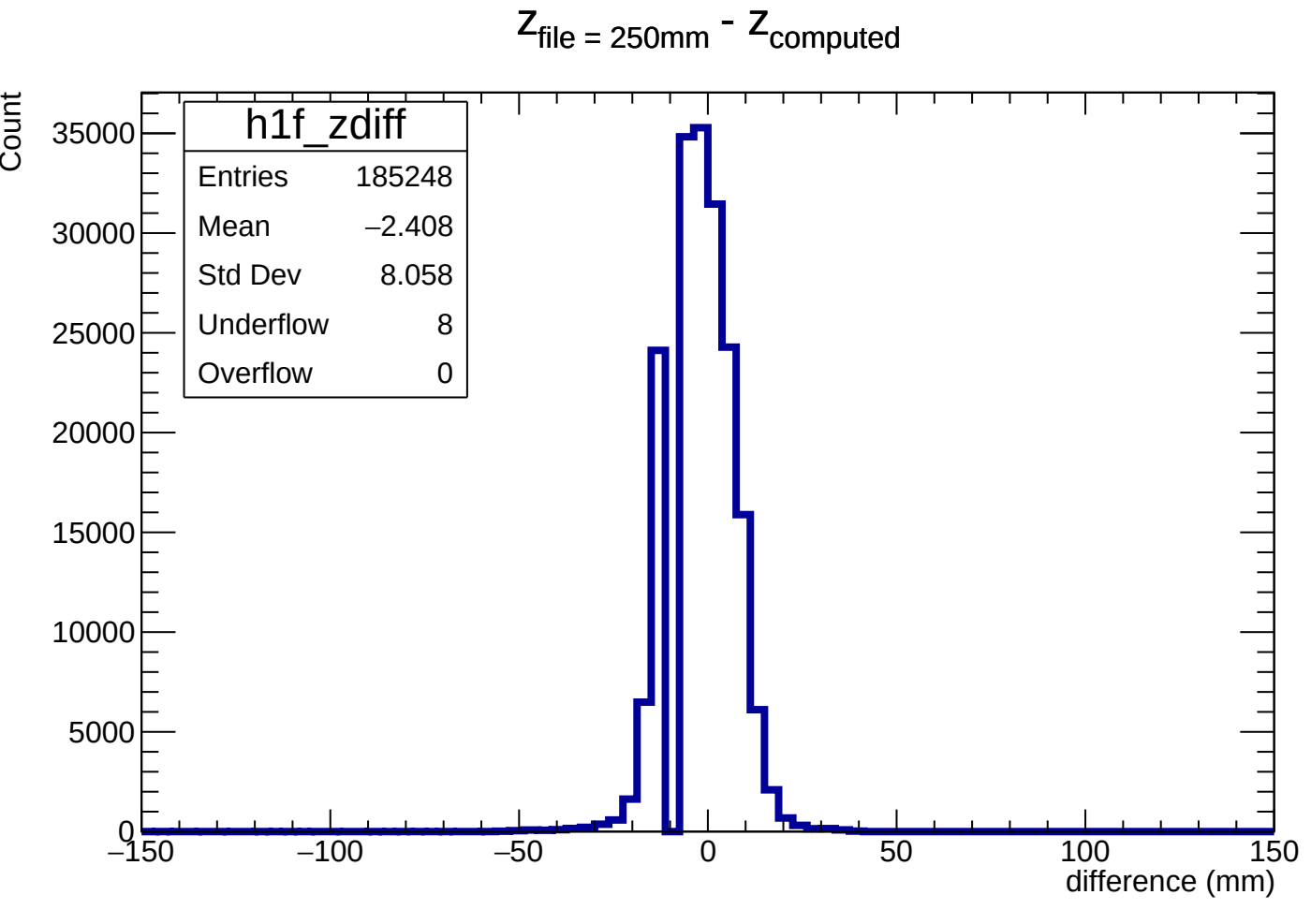
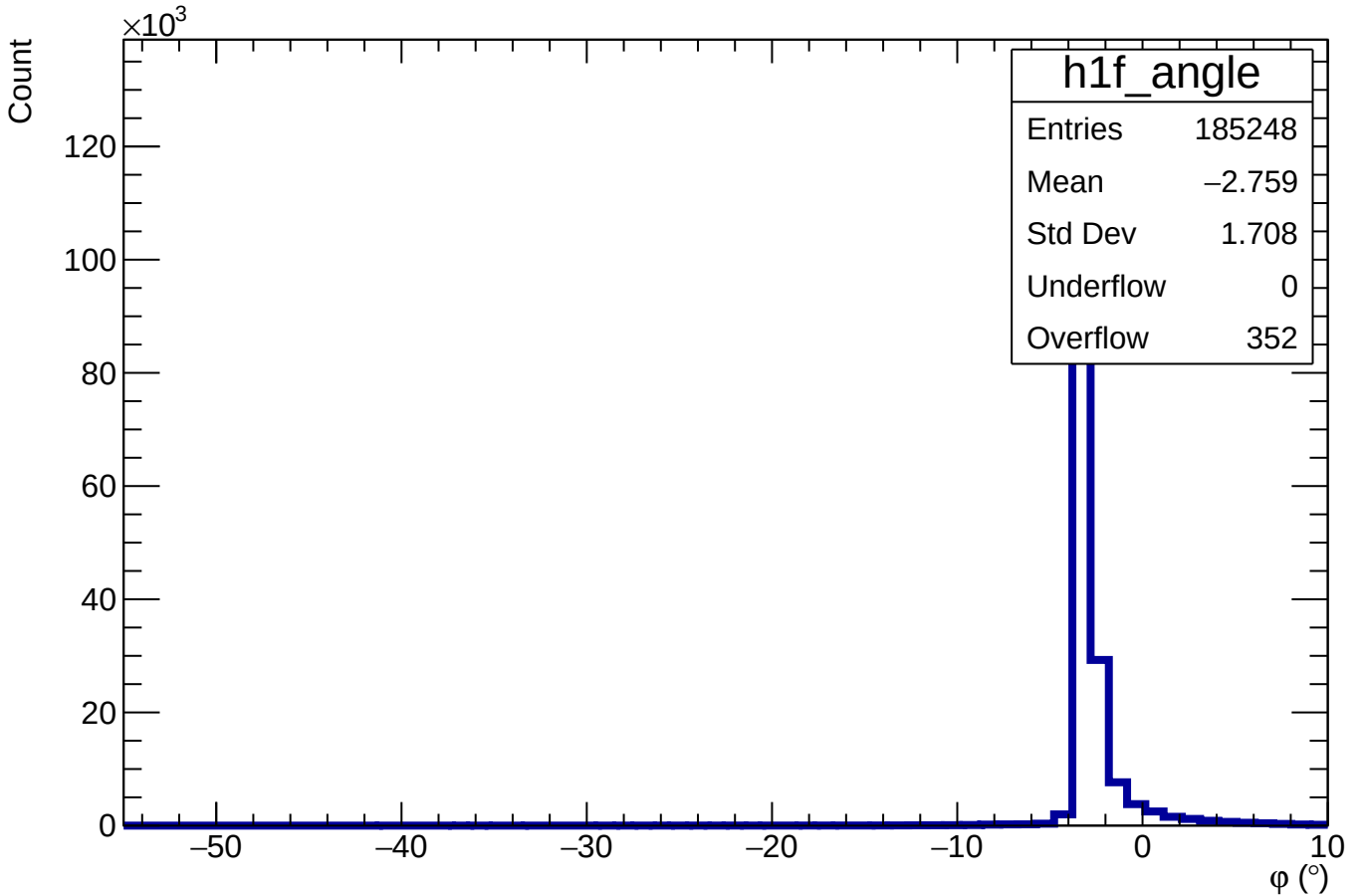
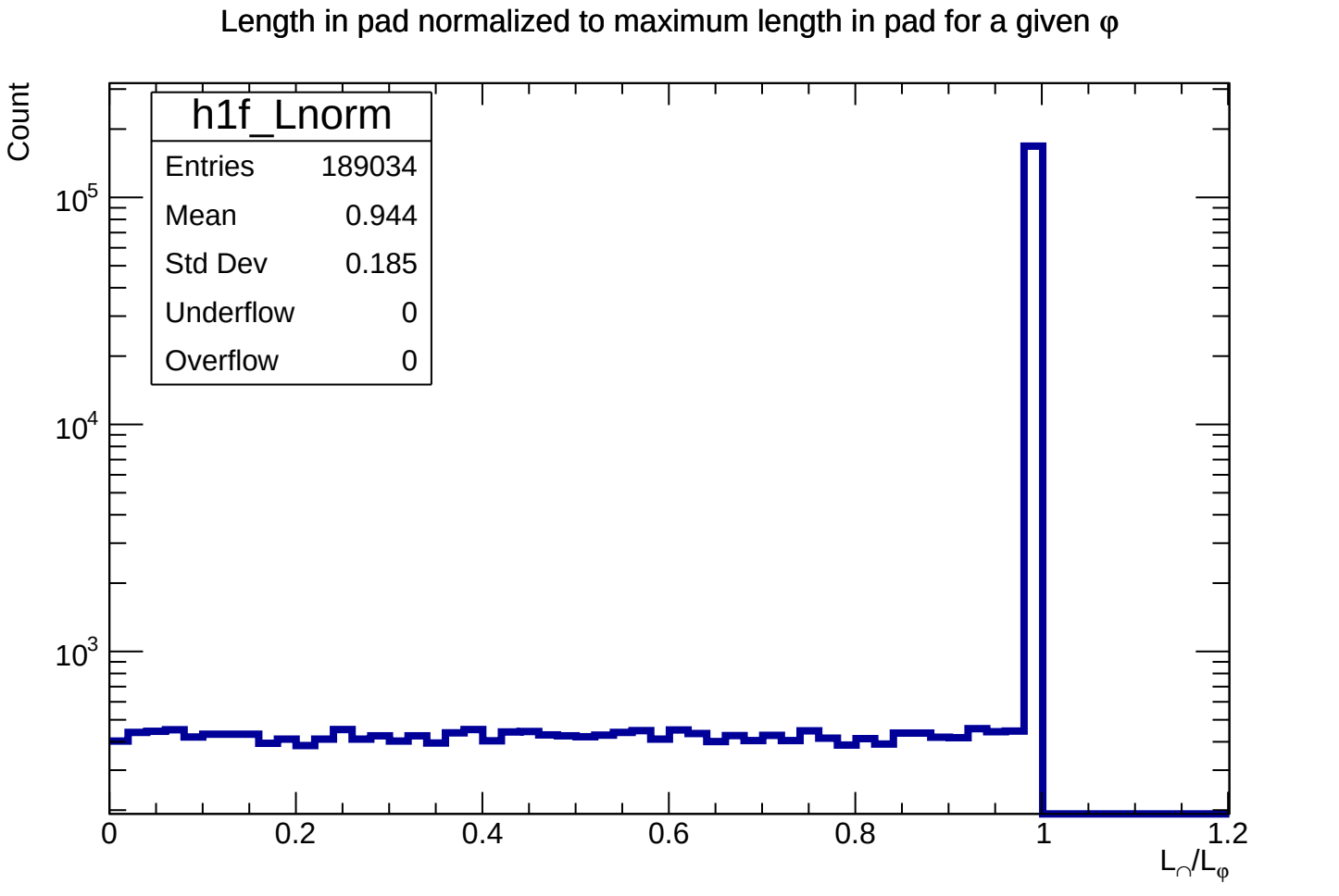

T_{max} of crossed pads
h1f_Tcross
Entries 185248
Mean 103.7
Std Dev 2.094
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

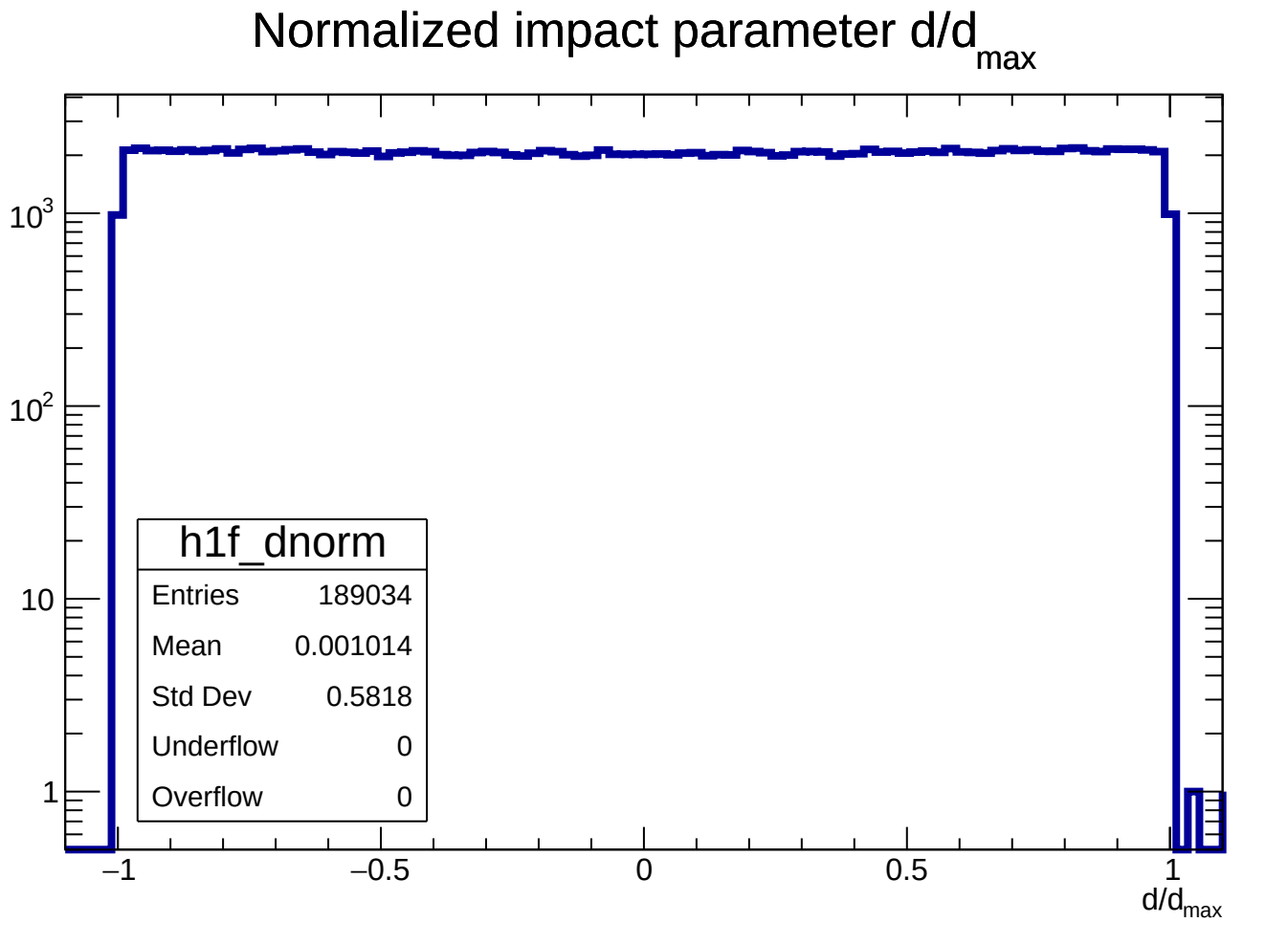

Number of crossed pads
h1f_Ncross
Entries 5250
Mean 35.29
Std Dev 0.9017
Underflow 0
Overflow 0
Count
# of crossed pads
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
15
20
25
30
35
40
45
50
55
60

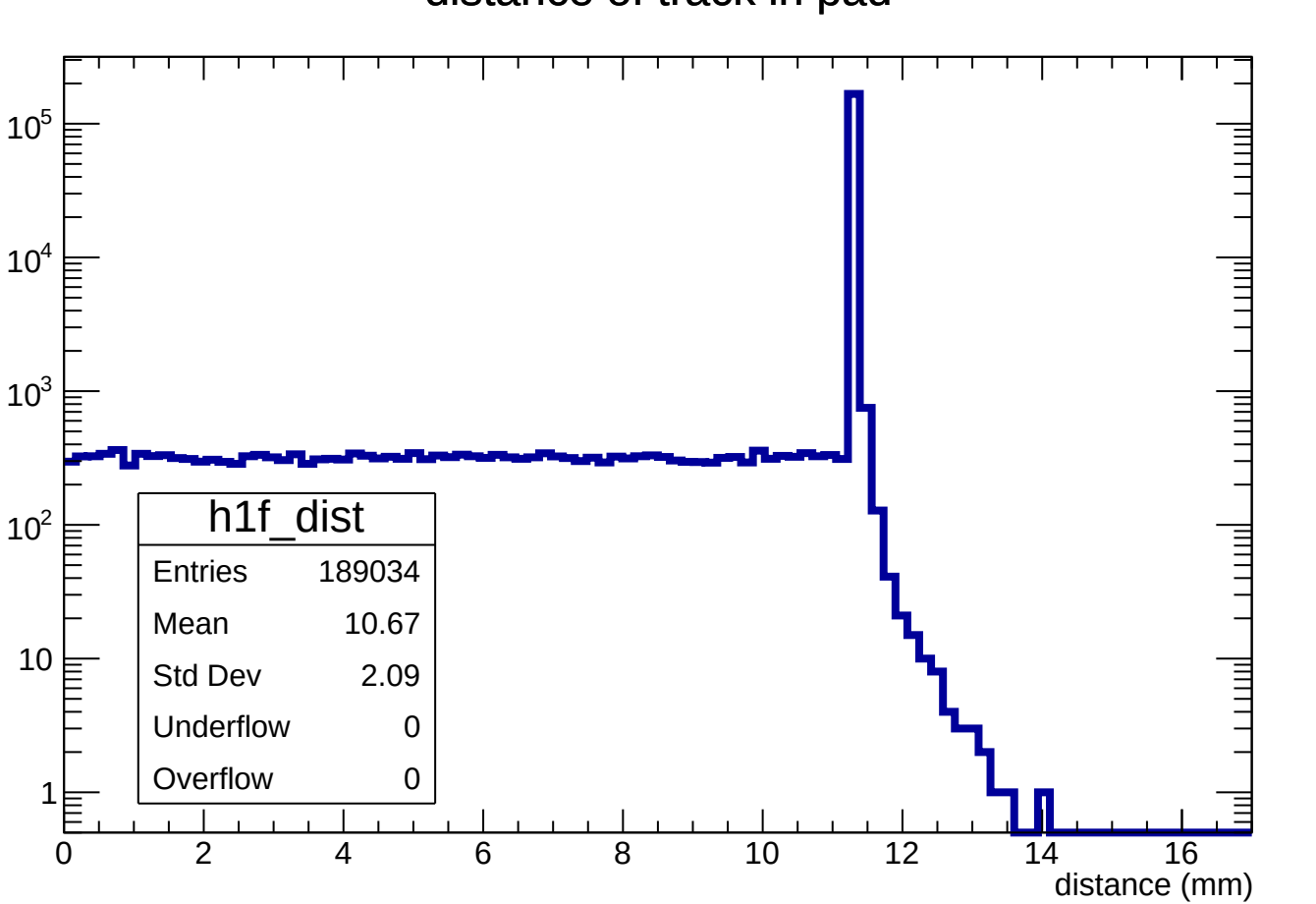

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 5250
Mean –0.1146
Std Dev 7.679
Underflow 0
Overflow 0
Count
0
200
400
600
800
1000
1200
–150
–100
–50
0
50
100
150
difference (ADC count)

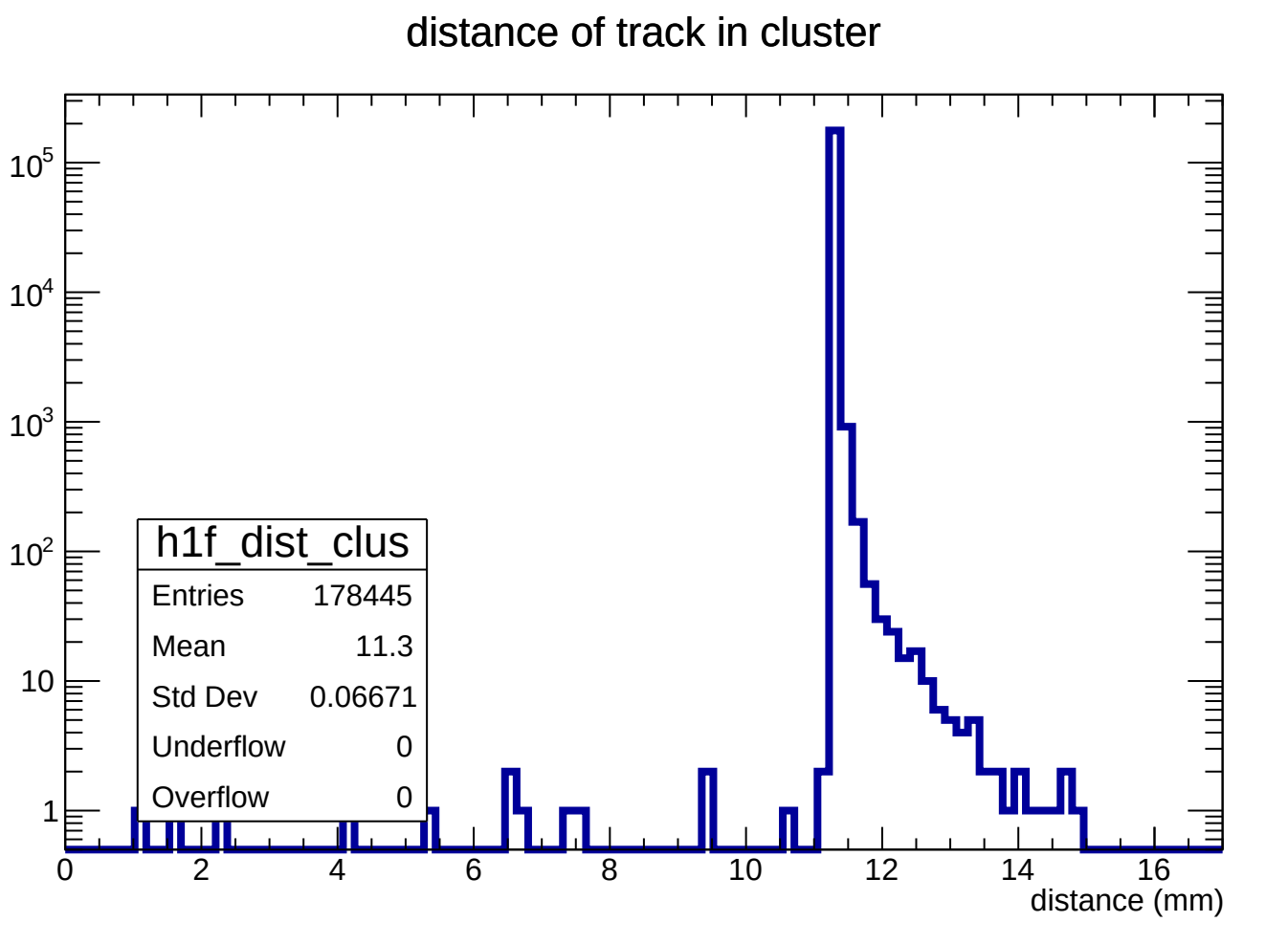

$z_{file = 250mm} - z_{computed}$
h1f_zdiff
Entries 185248
Mean −2.408
Std Dev 8.058
Underflow 8
Overflow 0
Count
35000
30000
25000
20000
15000
10000
5000
0
−150
−100
−50
0
50
100
150
difference (mm)

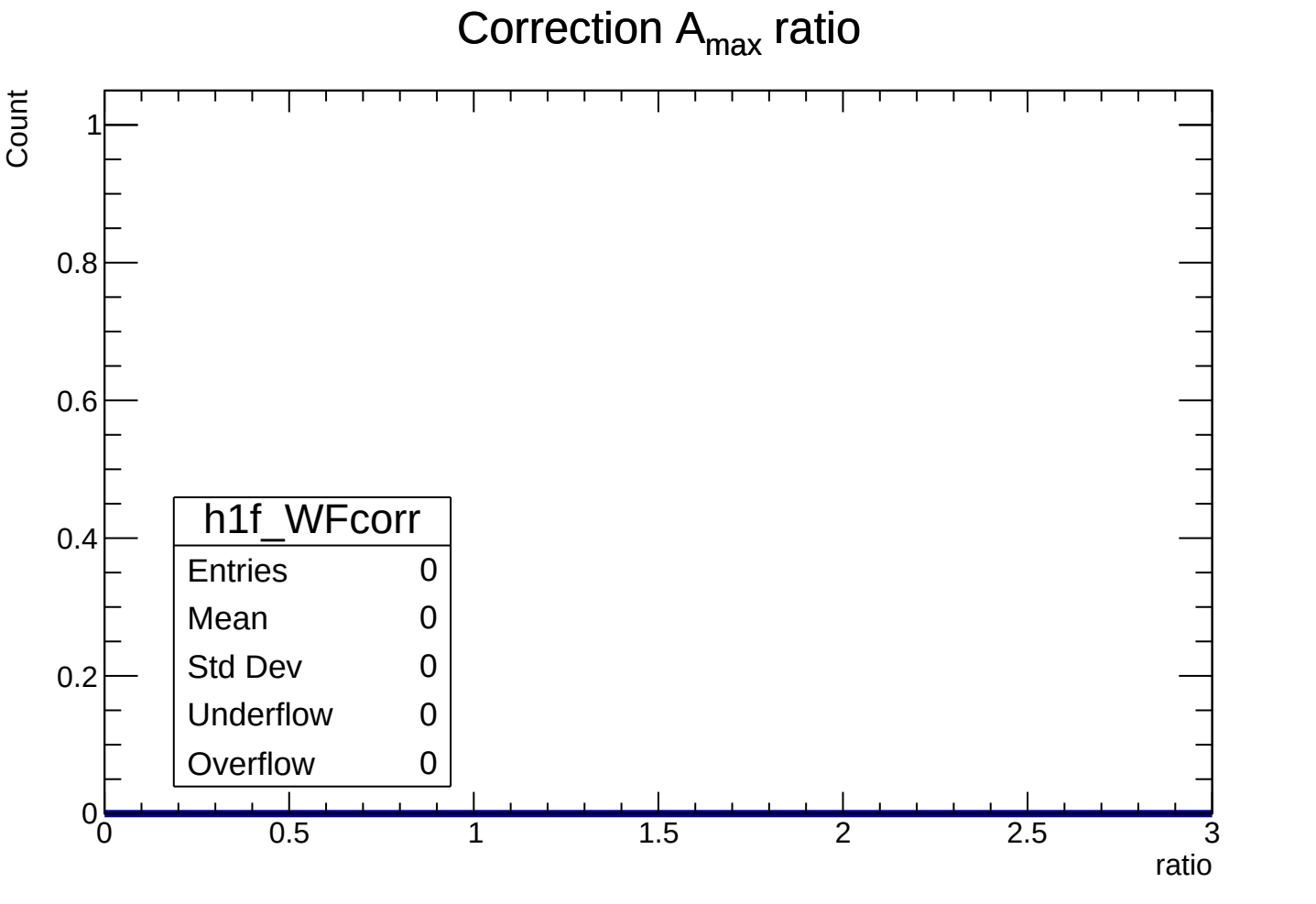

Angle φ in each pad
Count
×10^3
120
100
80
60
40
20
0
h1f_angle
Entries 185248
Mean −2.759
Std Dev 1.708
Underflow 0
Overflow 352
−50
−40
−30
−20
−10
0
10
φ (°)

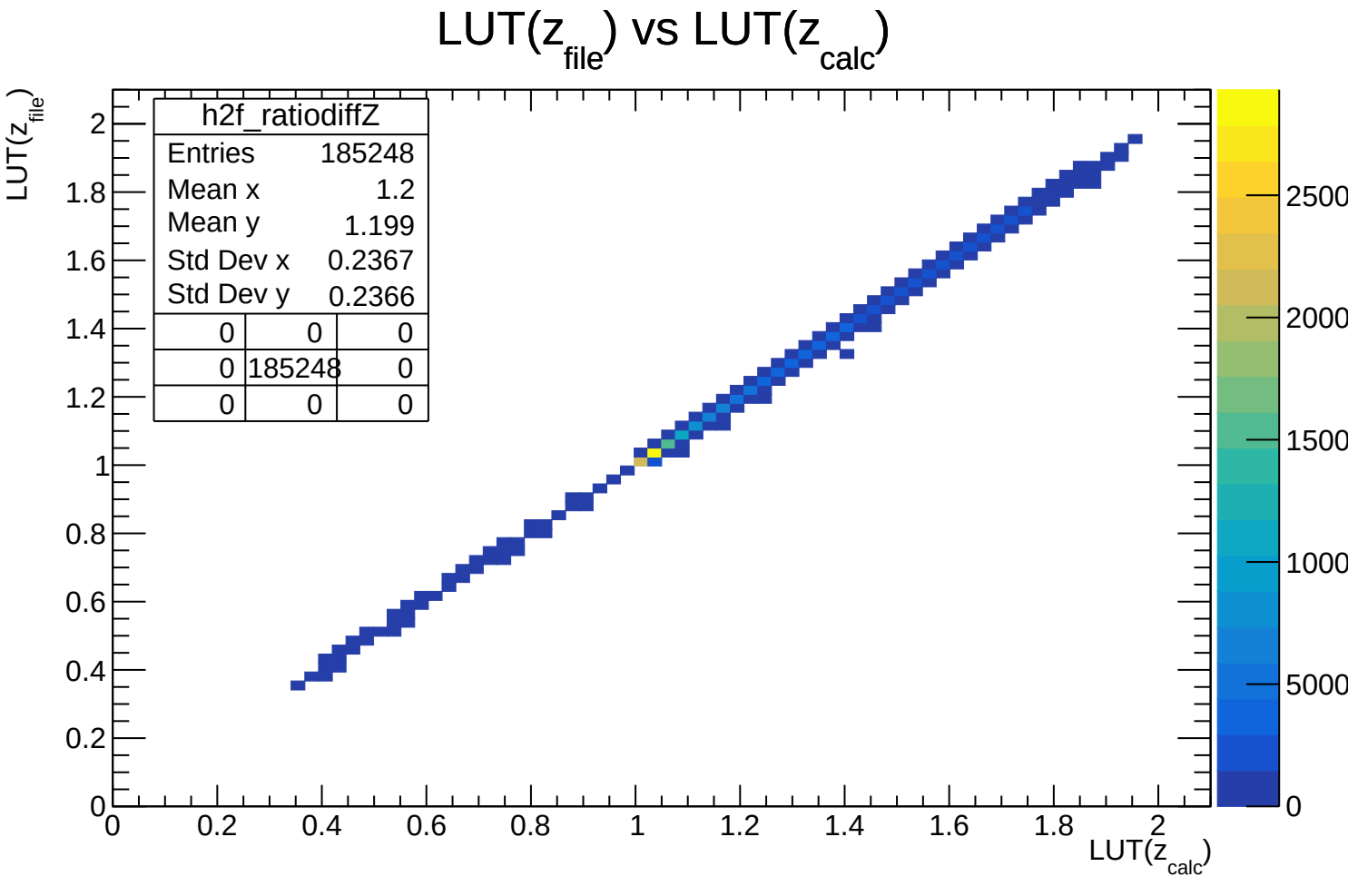

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 189034
Mean 0.944
Std Dev 0.185
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

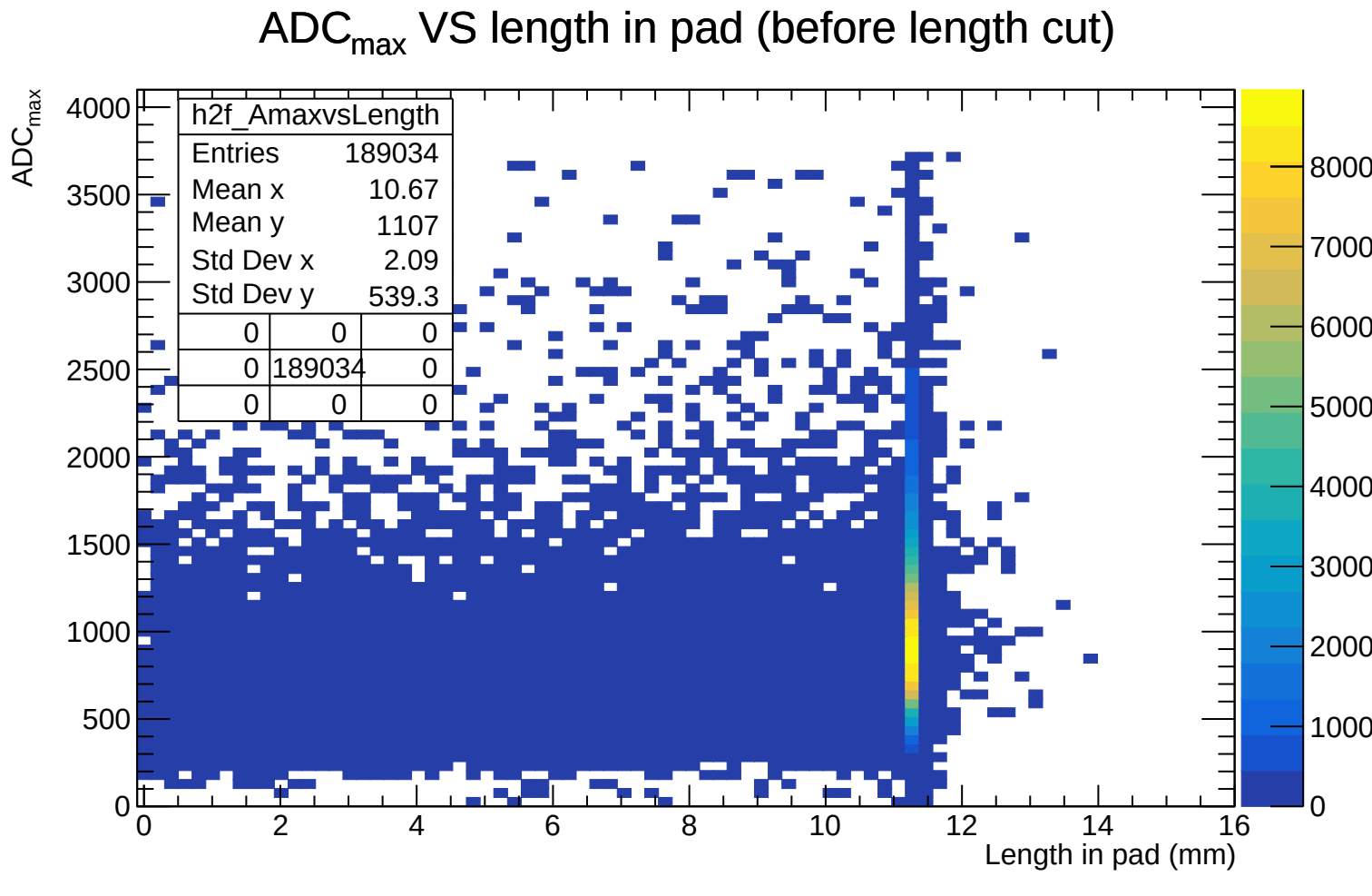

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 189034
Mean 0.001014
Std Dev 0.5818
Underflow 0
Overflow 0
–1
–0.5
0
0.5
1
d/d max

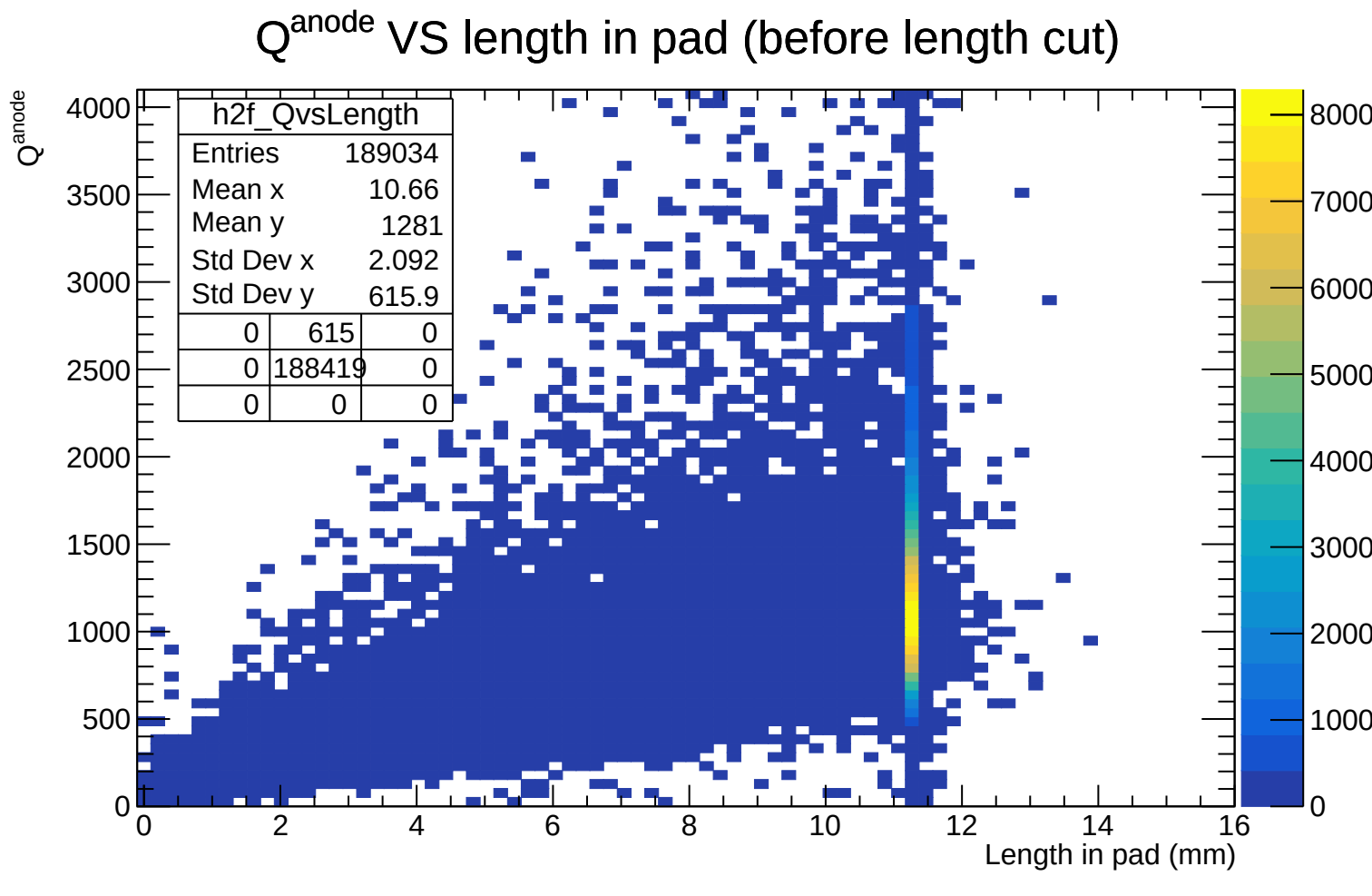

distance of track in pad
h1f_dist
Entries 189034
Mean 10.67
Std Dev 2.09
Underflow 0
Overflow 0
distance (mm)

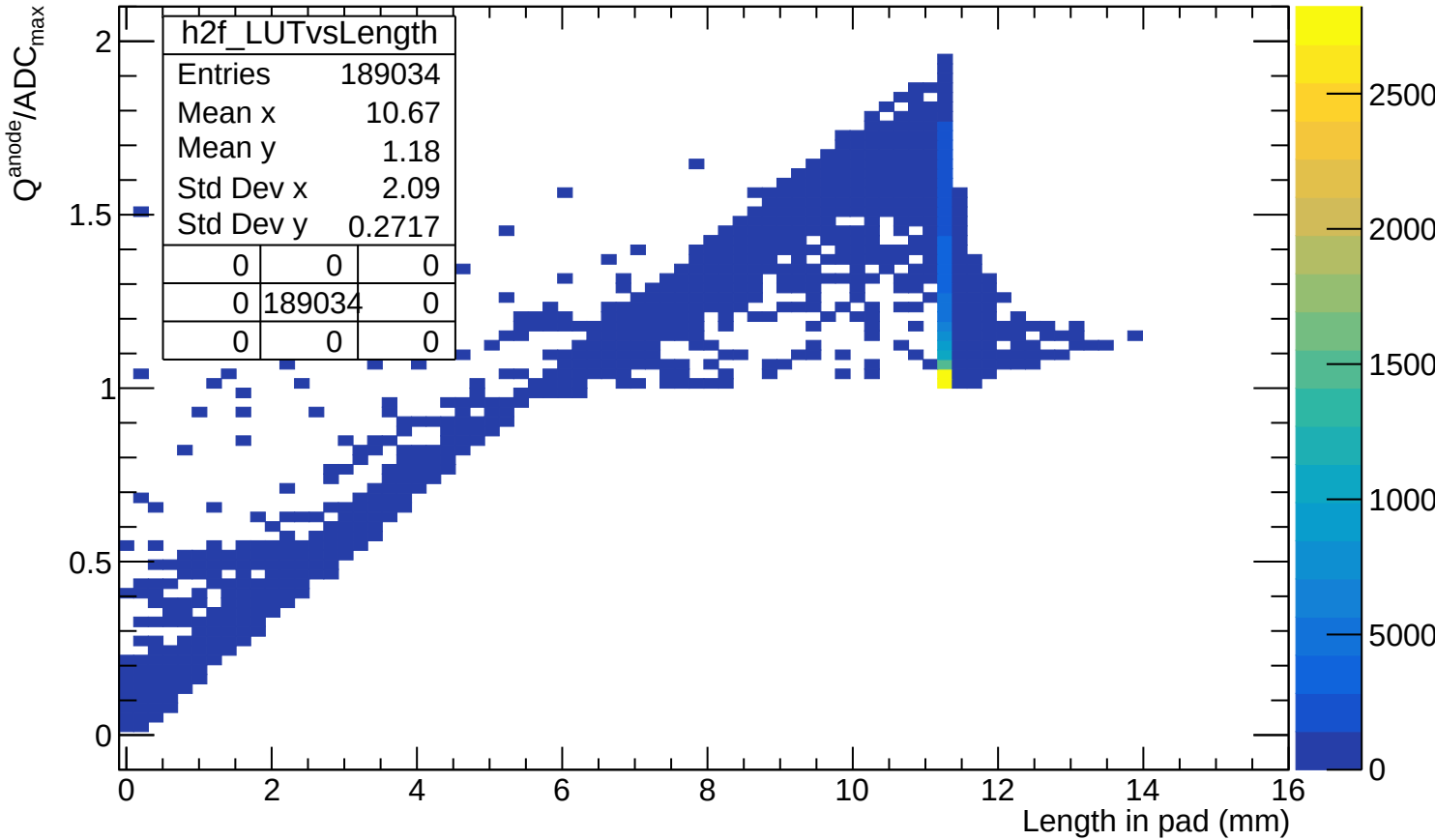

distance of track in cluster
h1f_dist_clus
Entries 178445
Mean 11.3
Std Dev 0.06671
Underflow 0
Overflow 0
distance (mm)

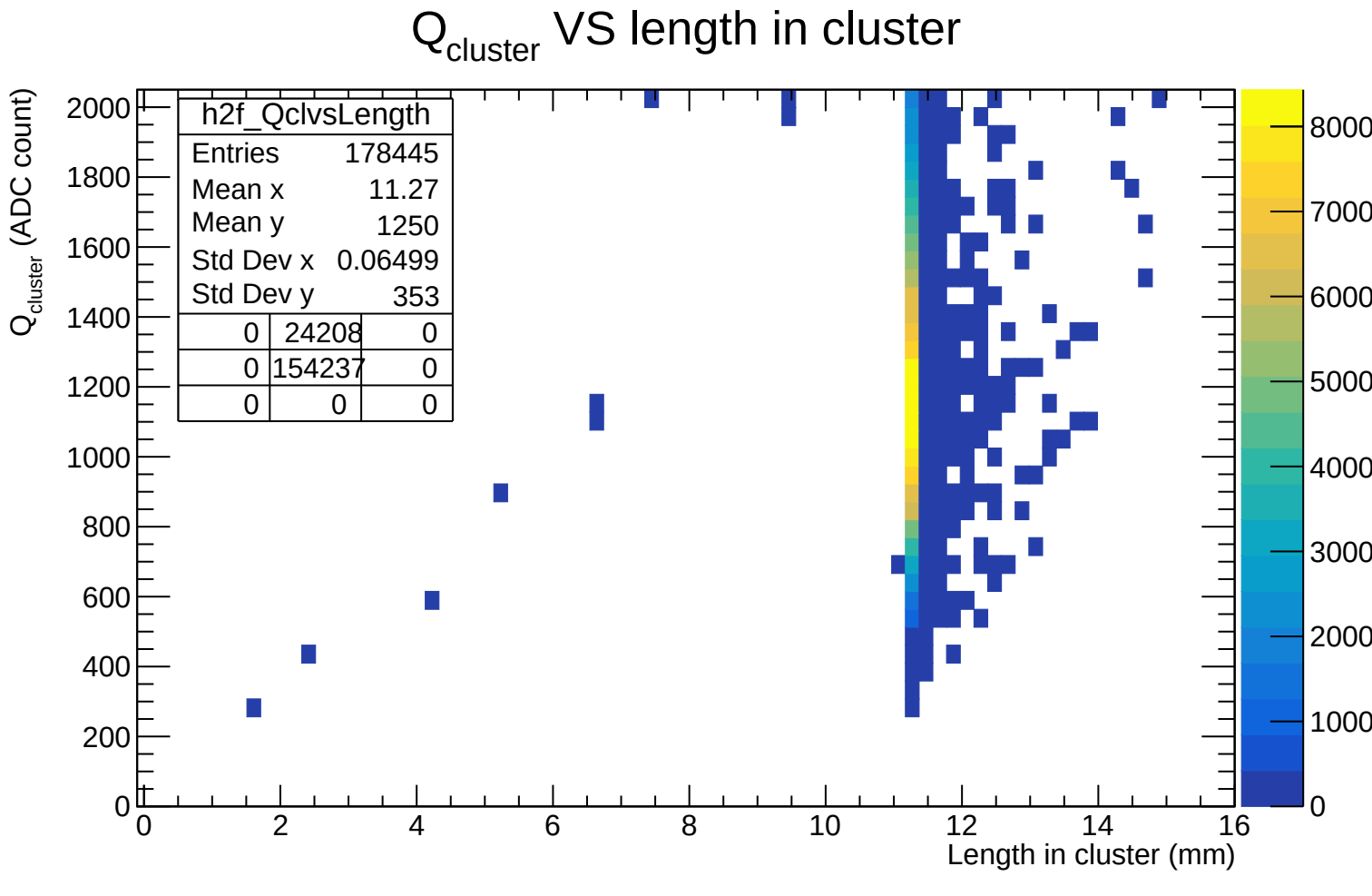

Correction A_{max} ratio
Count
1
0.8
0.6
0.4
0.2
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0

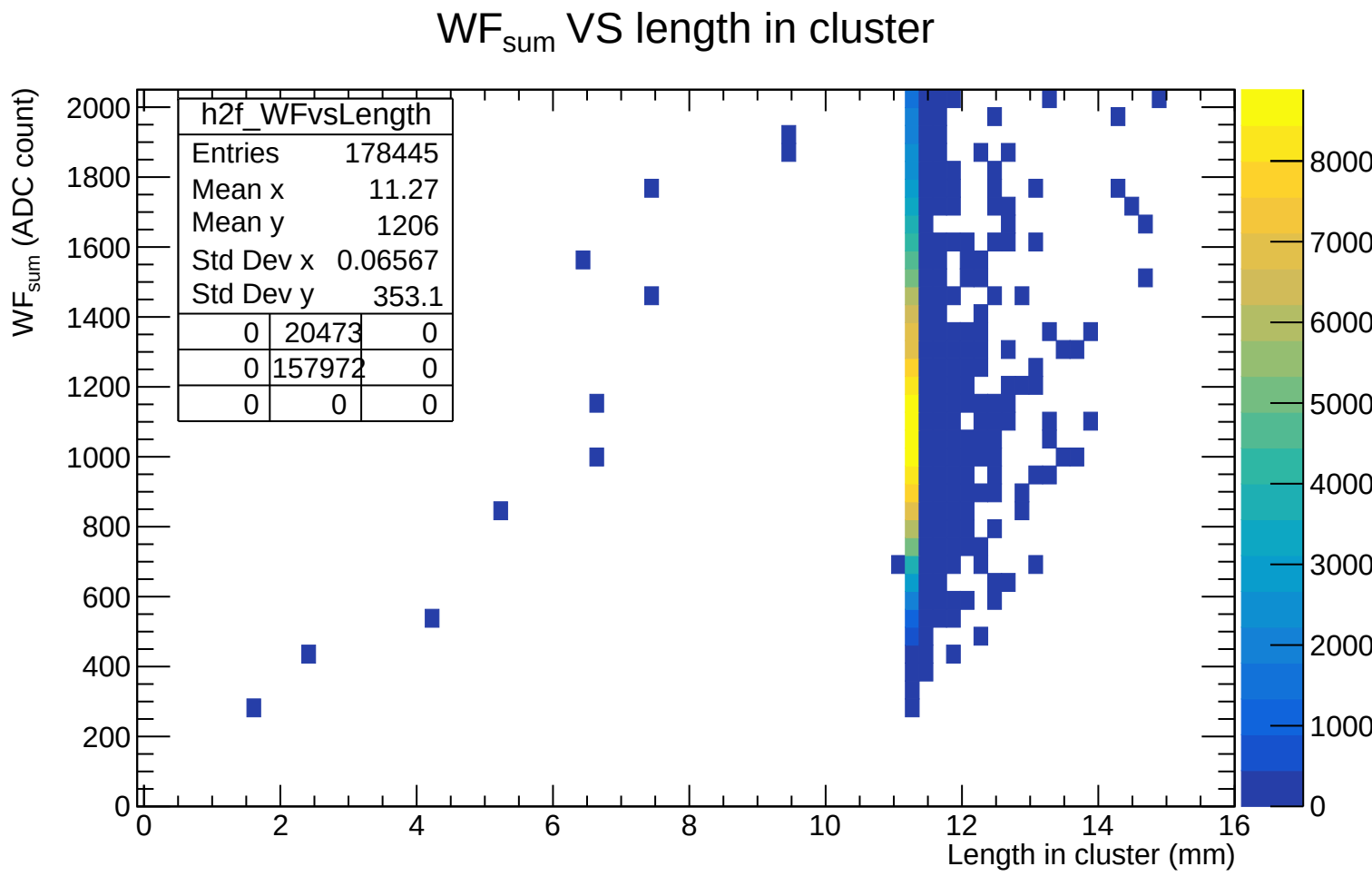

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 185248
Mean x 1.2
Mean y 1.199
Std Dev x 0.2367
Std Dev y 0.2366
0 0 0
0 185248 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5000 1000 1500 2000 2500

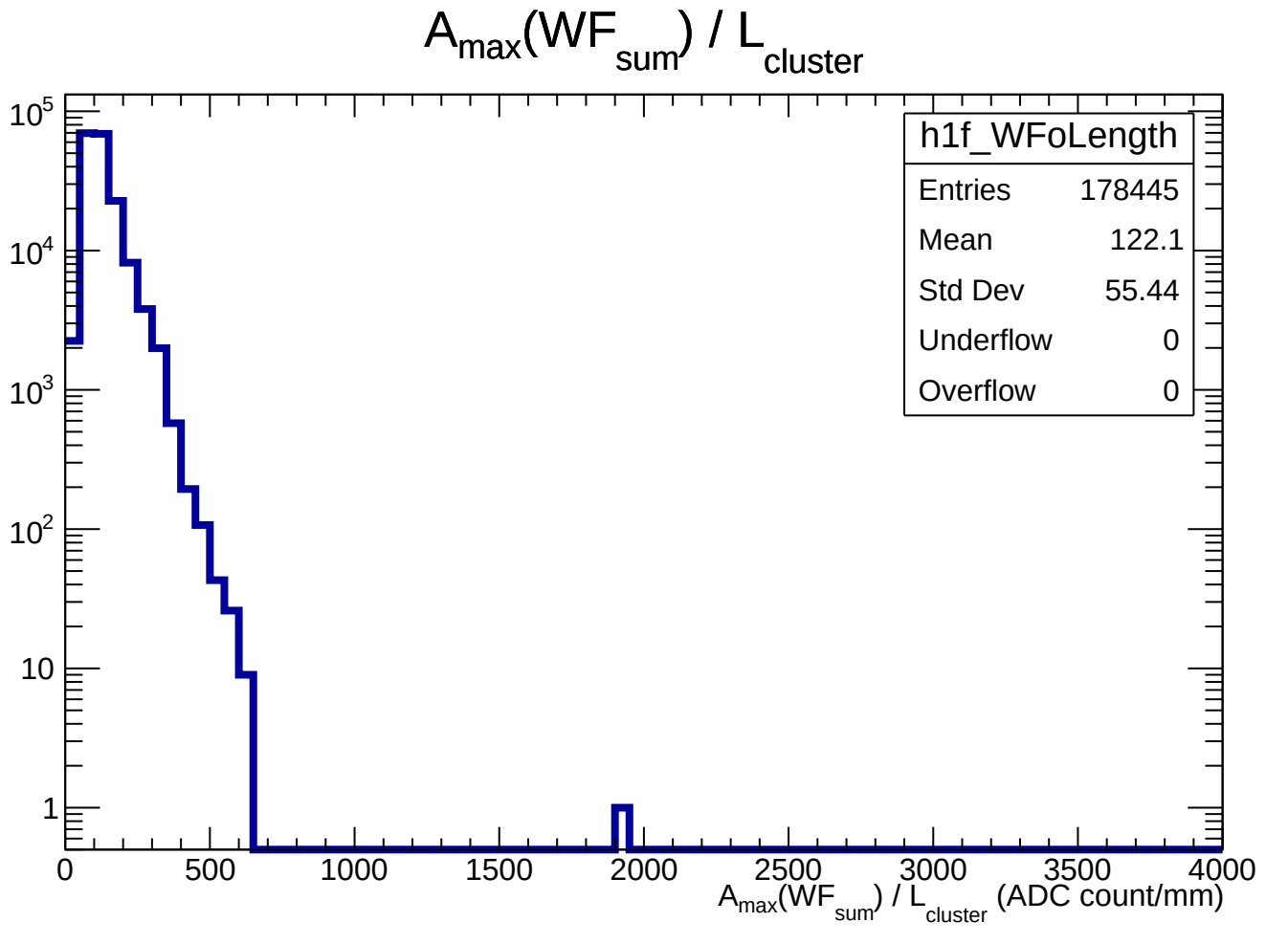

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 189034
Mean x 10.67
Mean y 1107
Std Dev x 2.09
Std Dev y 539.3
0 0 0
0 189034 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
1000
2000
3000
4000
5000
6000
7000
8000

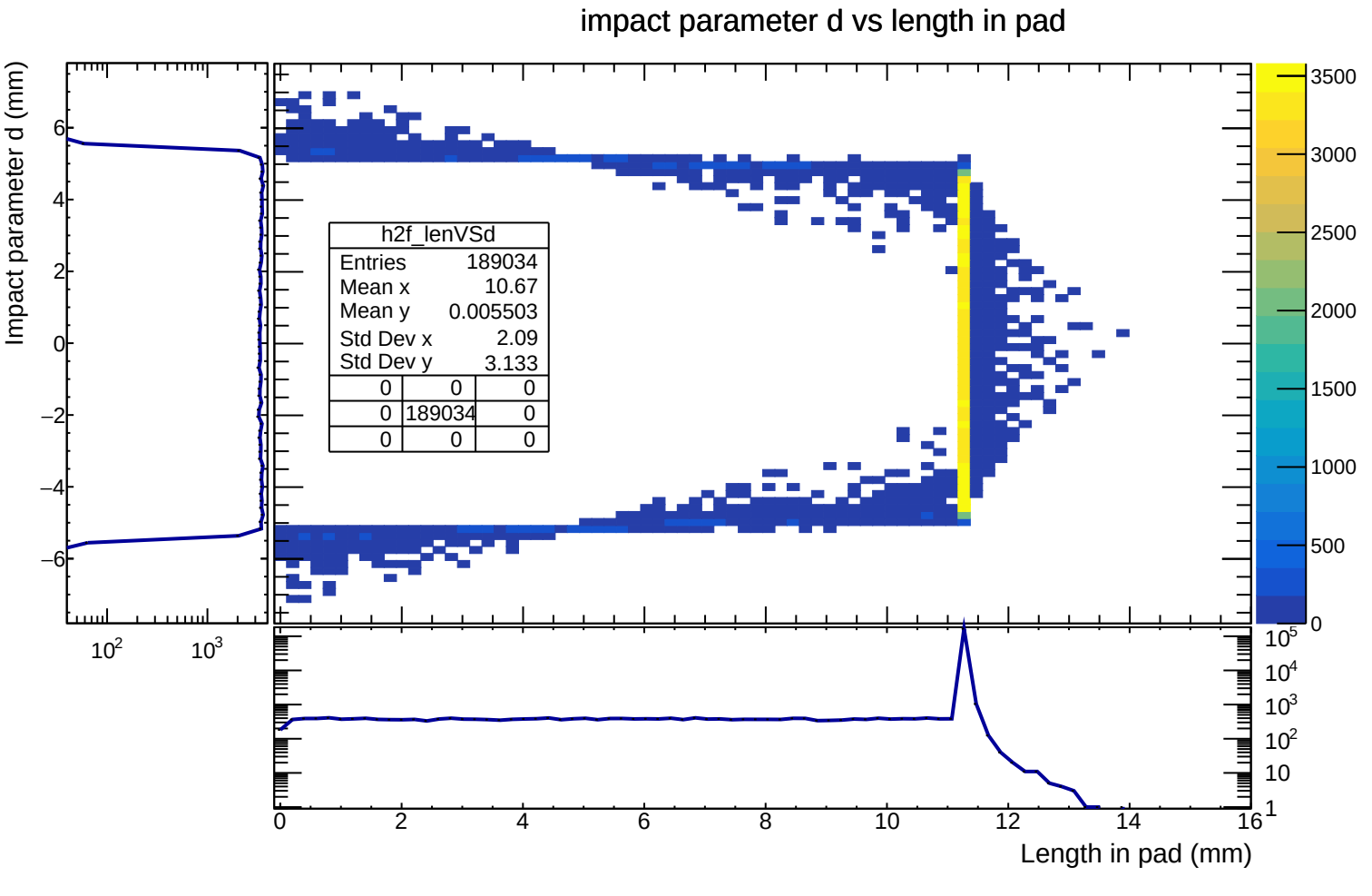

Q^anode VS length in pad (before length cut)
h2f_QvsLength
Entries 189034
Mean x 10.66
Mean y 1281
Std Dev x 2.092
Std Dev y 615.9
0 615 0
0 188419 0
0 0 0
Q^anode
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
0
1000
2000
3000
4000
5000
6000
7000
8000


Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 189034
Mean x 10.67
Mean y 1.18
Std Dev x 2.09
Std Dev y 0.2717
0 0 0
0 189034 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


$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 178445
Mean x 11.27
Mean y 1250
Std Dev x 0.06499
Std Dev y 353
0 24208 0
0 154237 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 7000 8000


WF_sum VS length in cluster
h2f_WFvsLength
Entries 178445
Mean x 11.27
Mean y 1206
Std Dev x 0.06567
Std Dev y 353.1
0 20473 0
0 157972 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
1000
2000
3000
4000
5000
6000
7000
8000


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 178445
Mean 122.1
Std Dev 55.44
Underflow 0
Overflow 0
10^5
10^4
10^3
10^2
10
1
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 189034
Mean x 10.67
Mean y 0.005503
Std Dev x 2.09
Std Dev y 3.133
0 0 0
0 189034 0
0 0 0