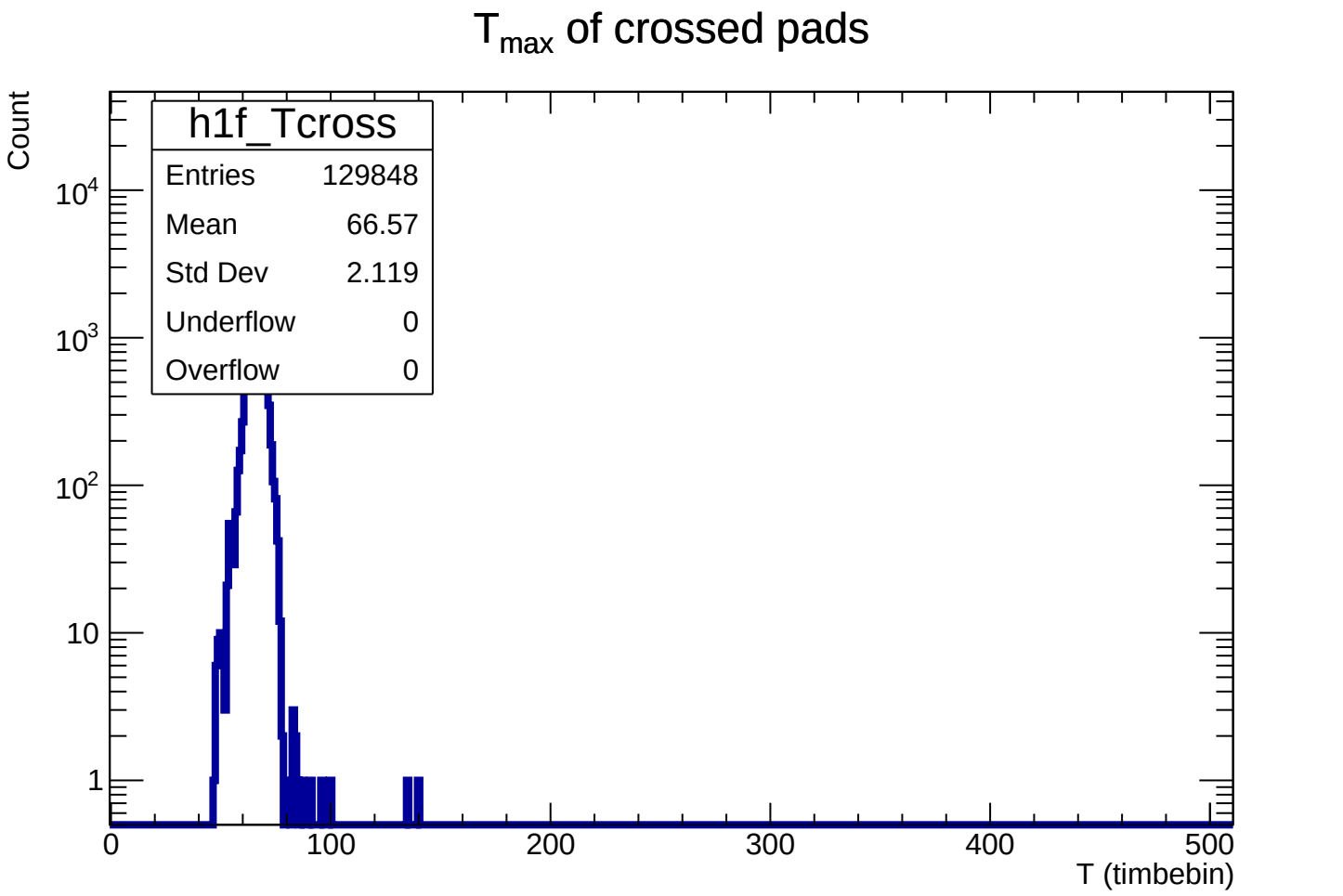
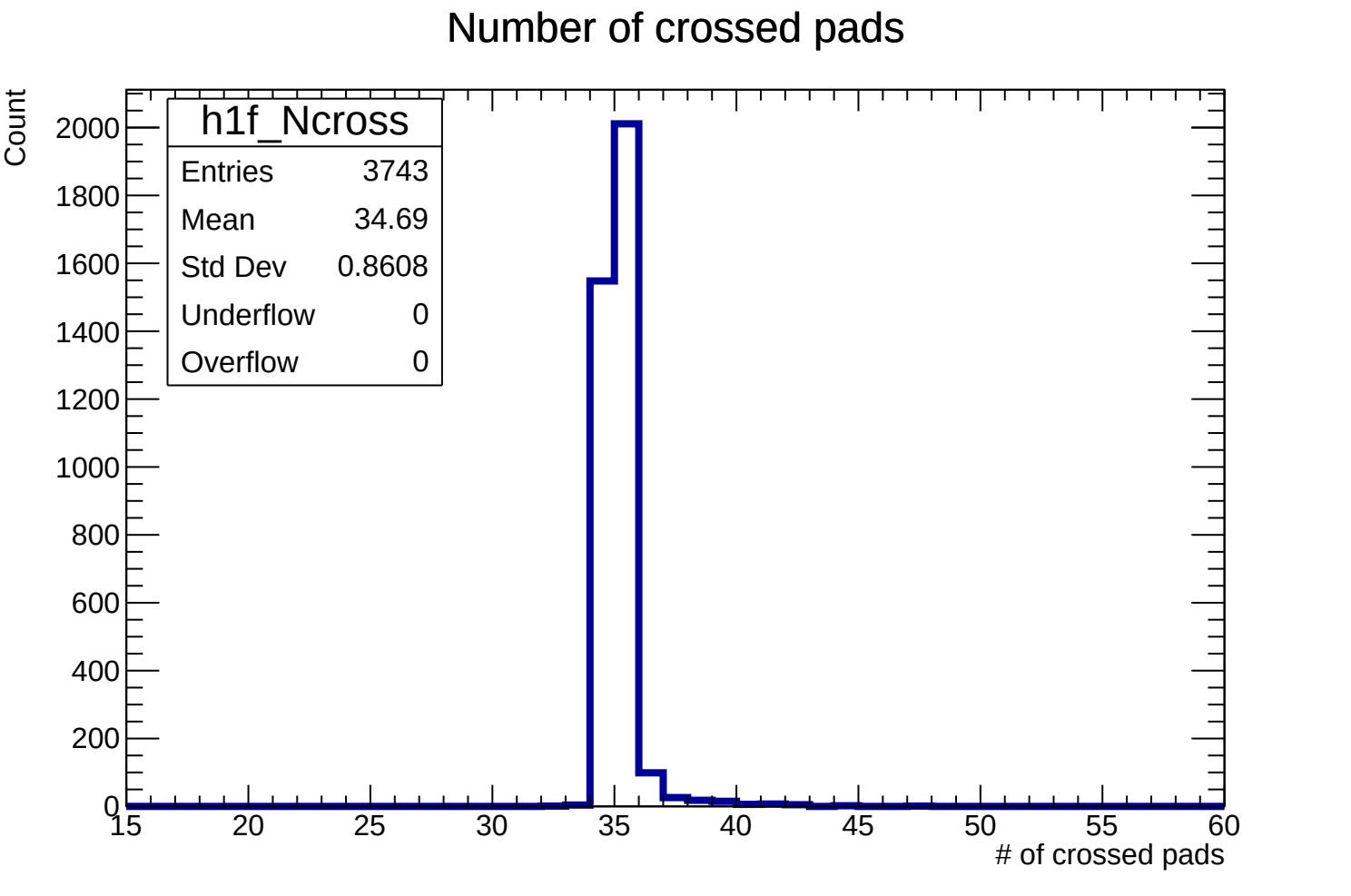
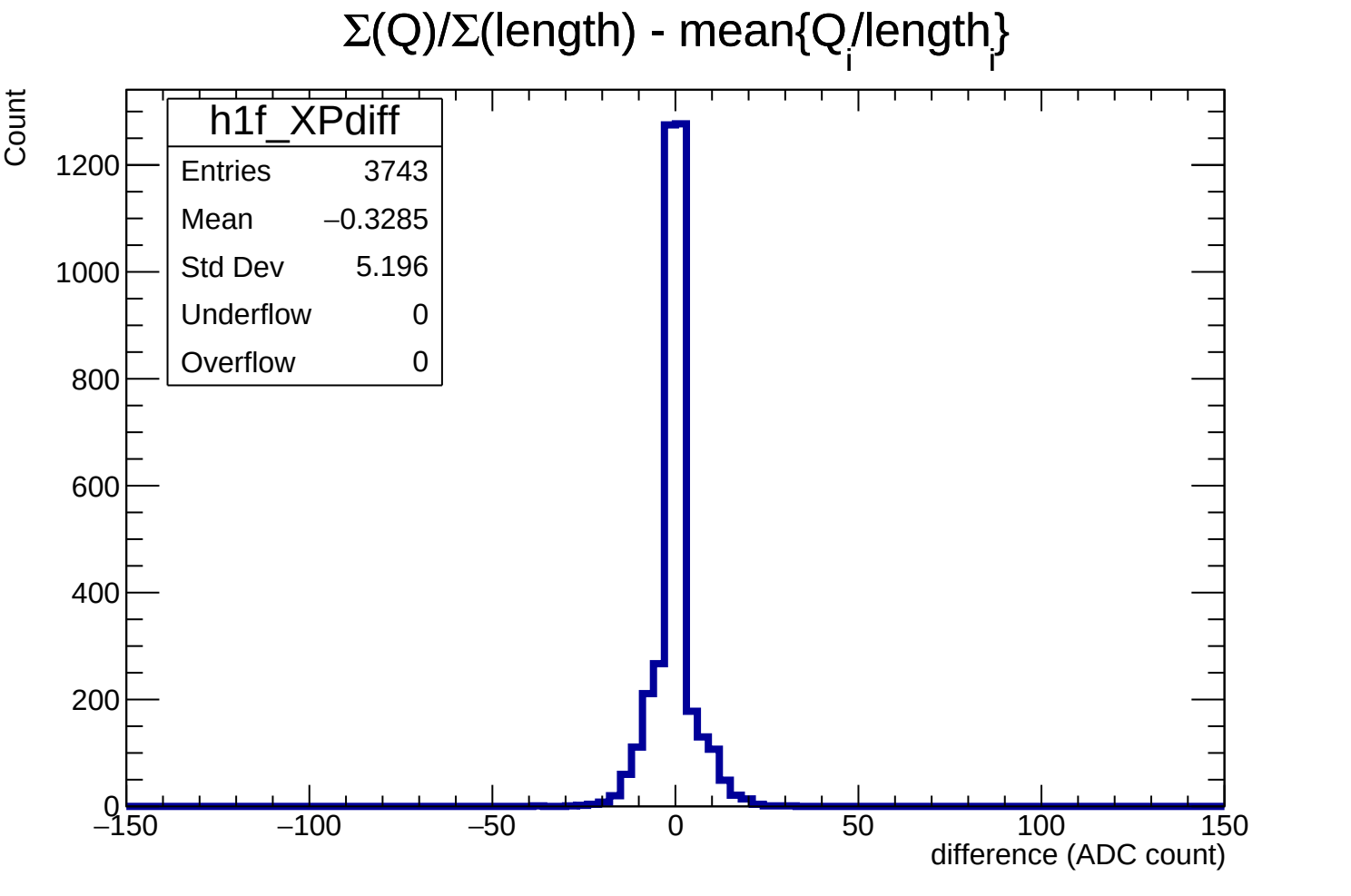
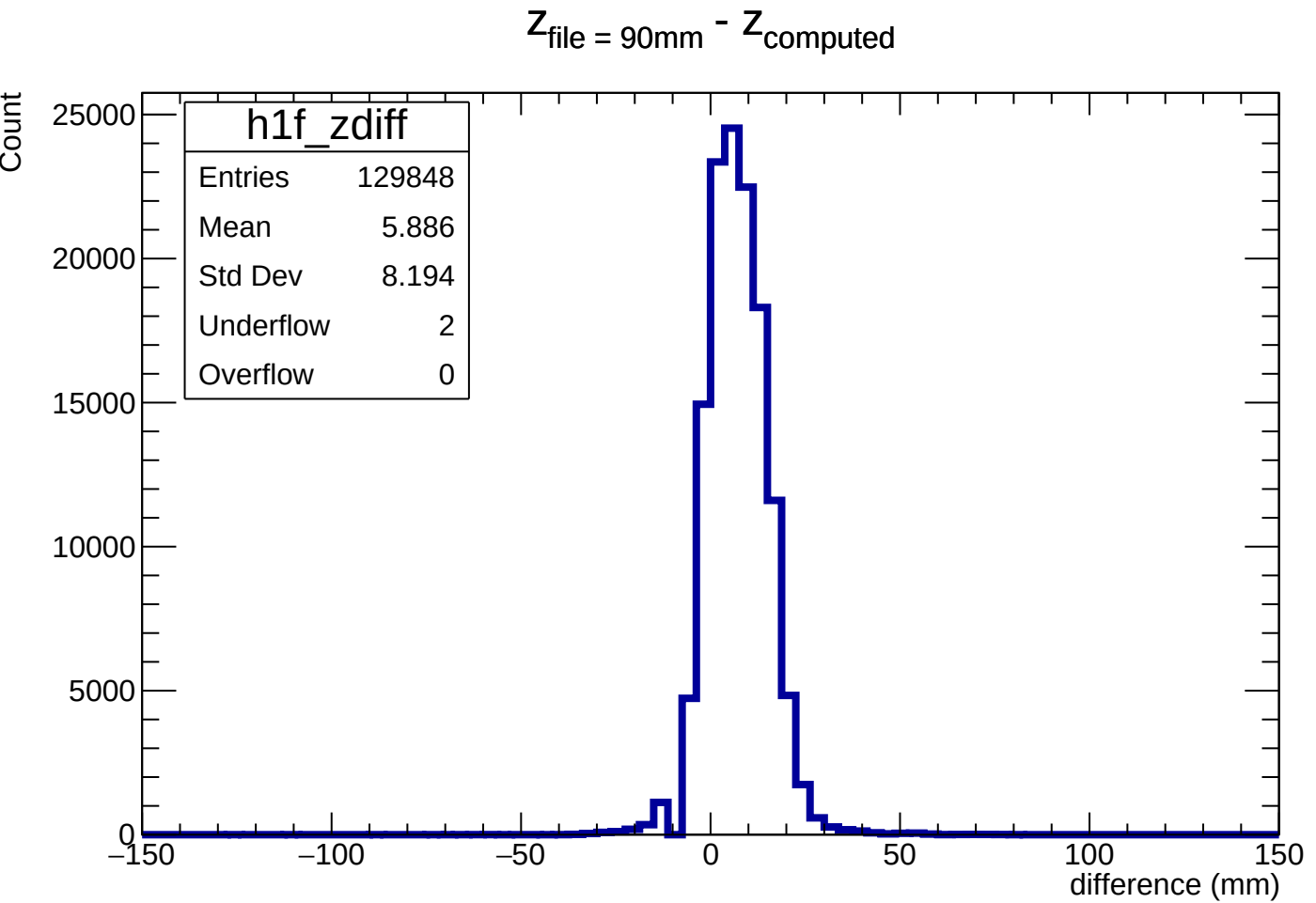
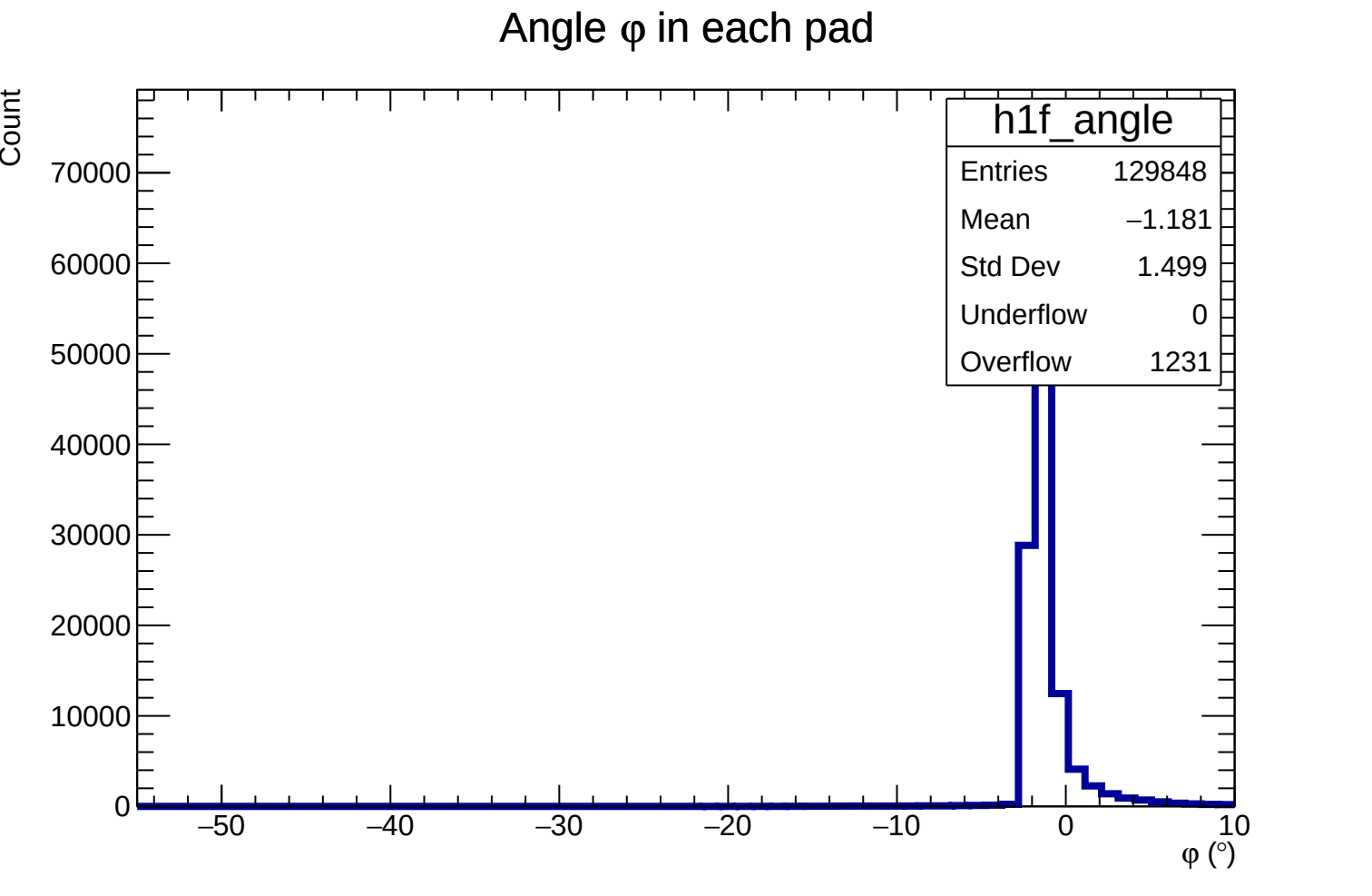
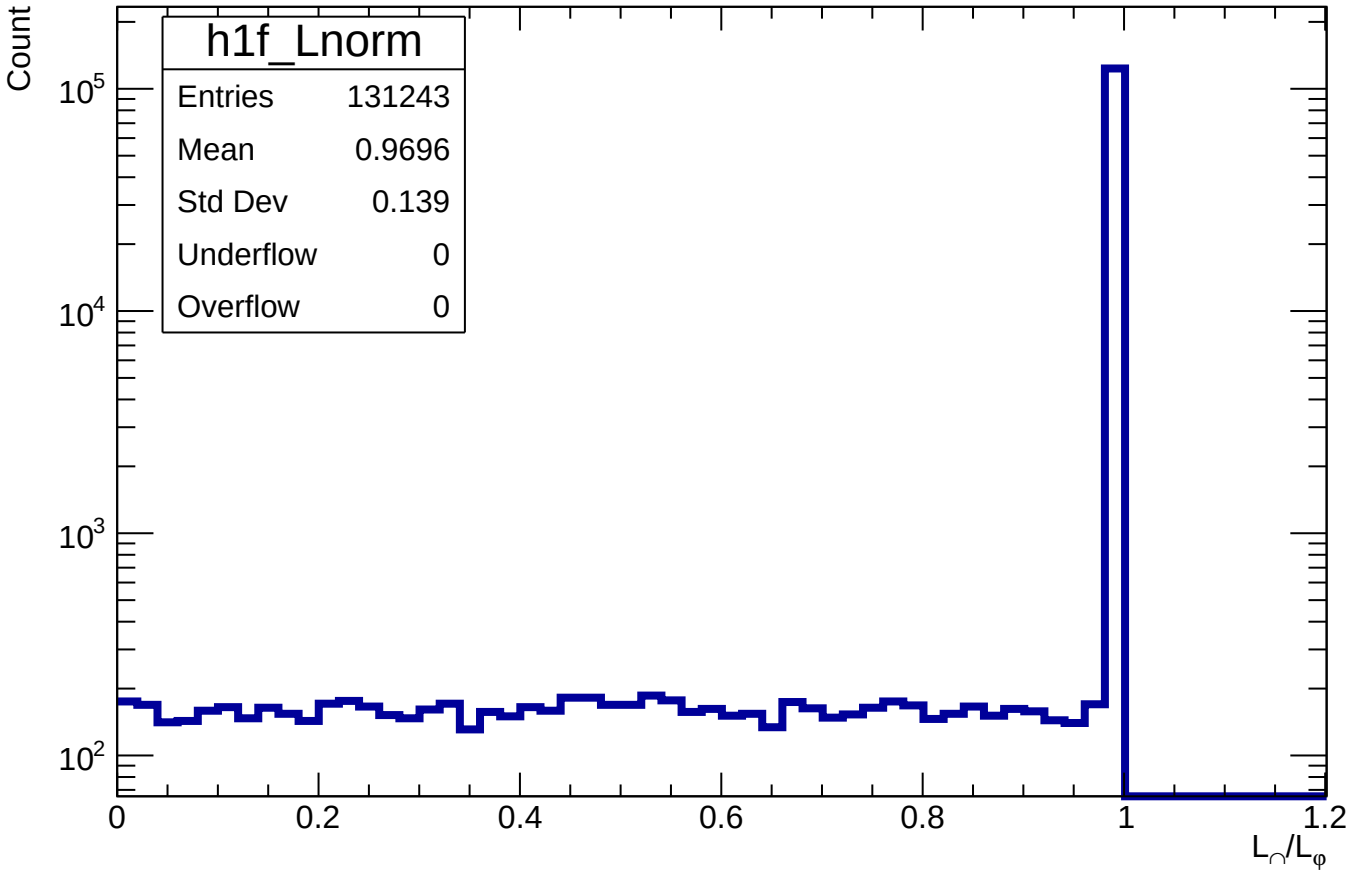

T_{max} of crossed pads
h1f_Tcross
Entries 129848
Mean 66.57
Std Dev 2.119
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

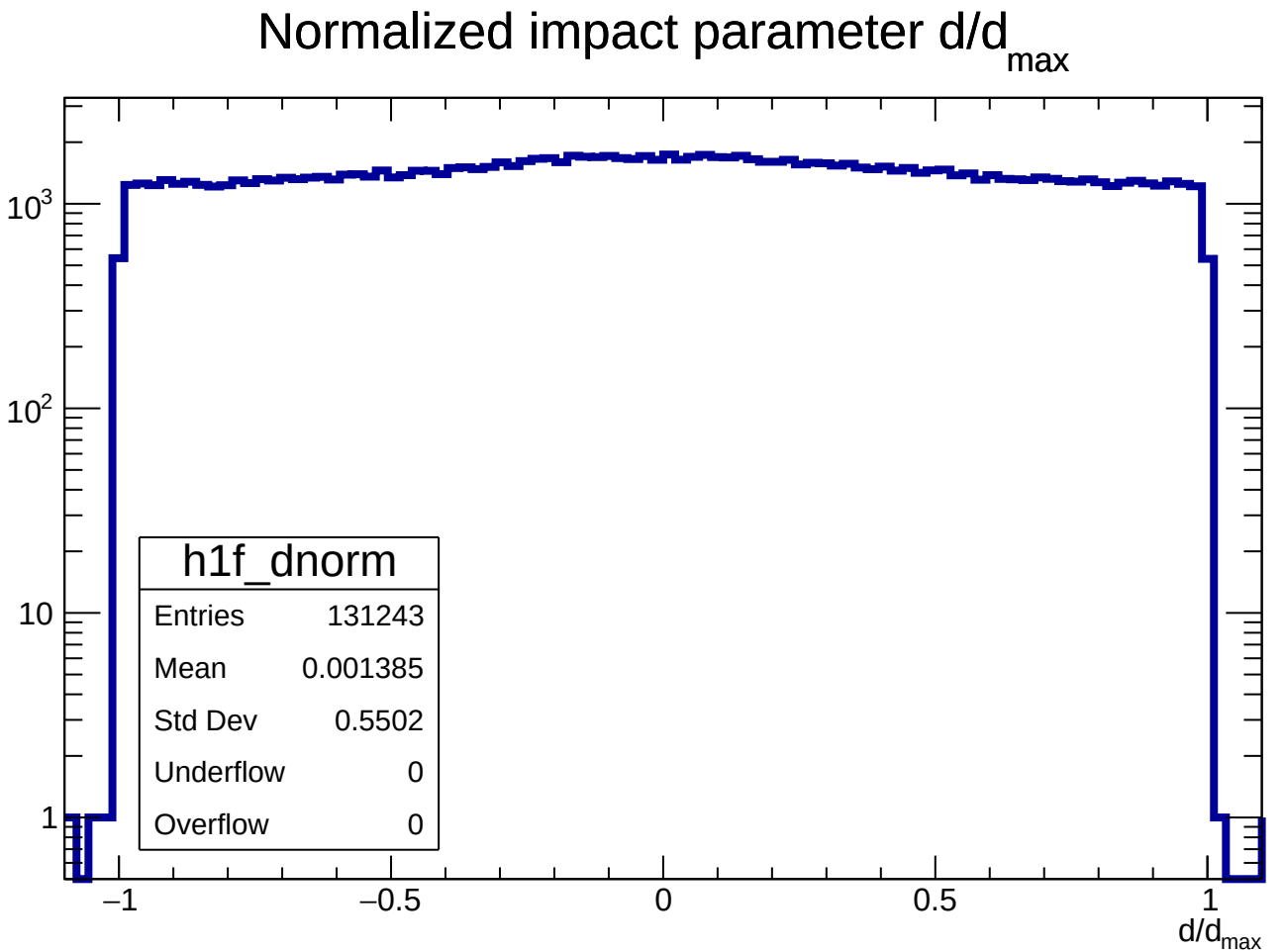

Number of crossed pads
h1f_Ncross
Entries 3743
Mean 34.69
Std Dev 0.8608
Underflow 0
Overflow 0
Count
2000
1800
1600
1400
1200
1000
800
600
400
200
0
15
20
25
30
35
40
45
50
55
60
# of crossed pads

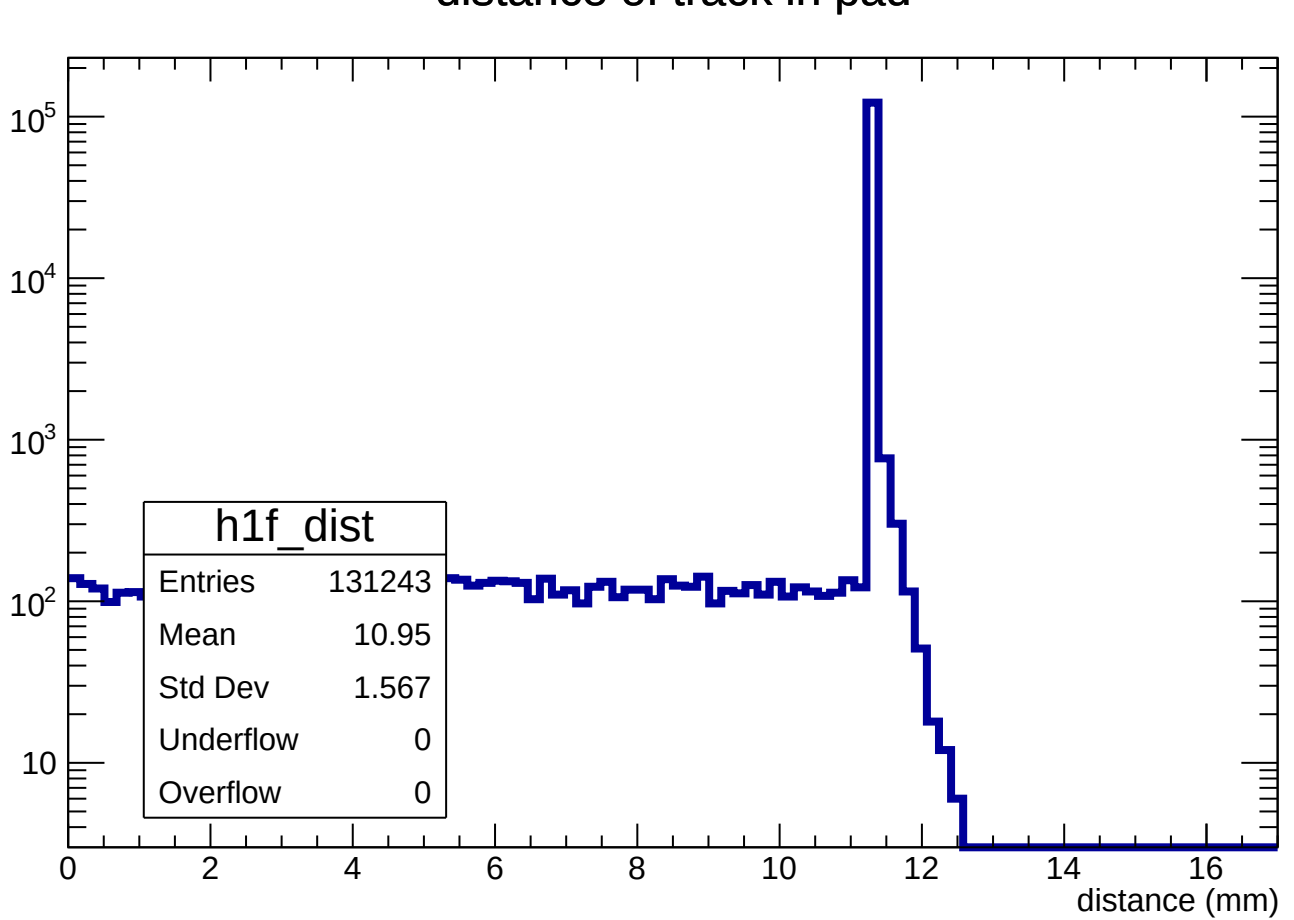

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 3743
Mean −0.3285
Std Dev 5.196
Underflow 0
Overflow 0
Count
1200
1000
800
600
400
200
0
−150
−100
−50
0
50
100
150
difference (ADC count)

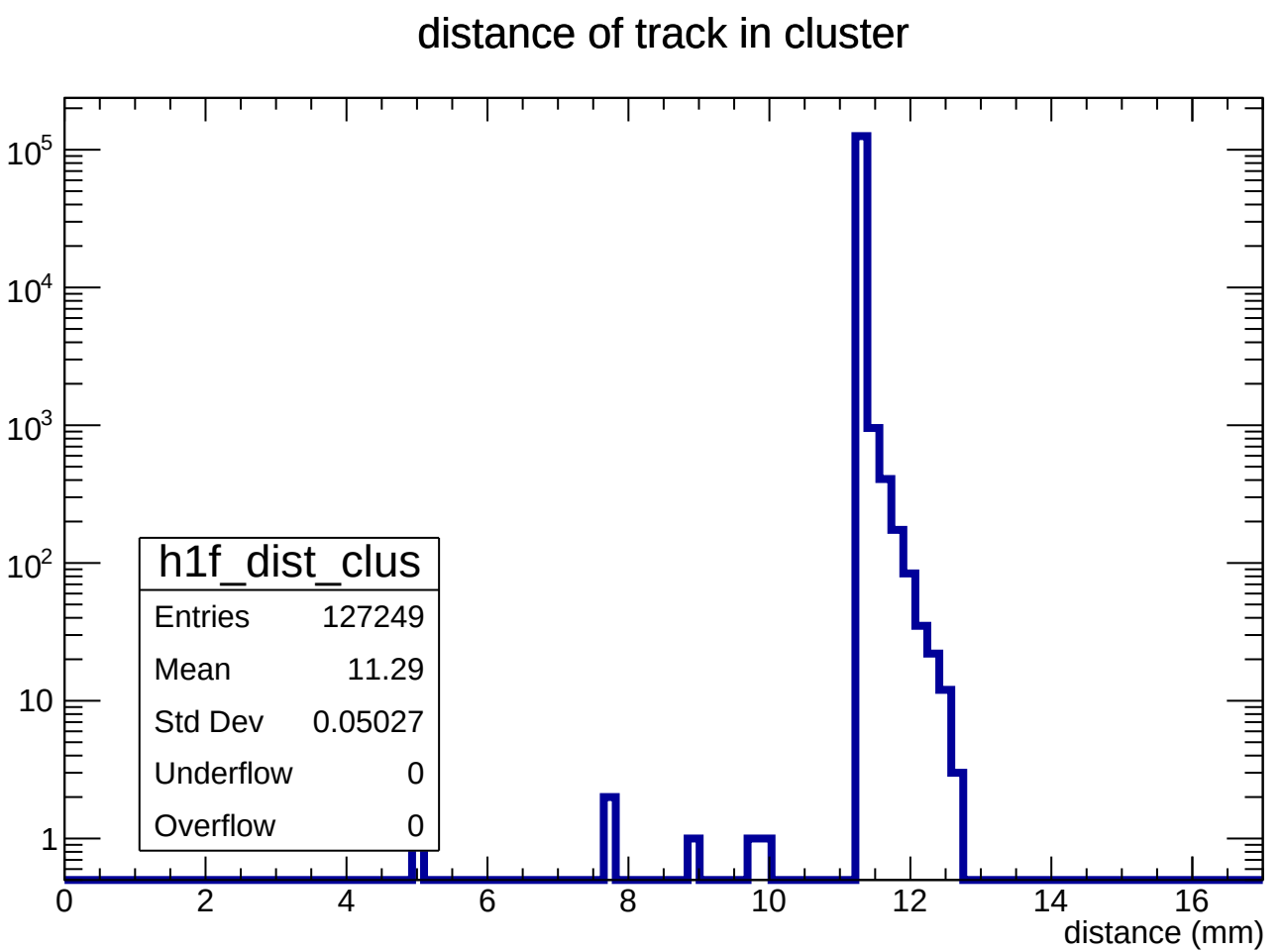

$z_{file = 90mm} - z_{computed}$
h1f_zdiff
Entries 129848
Mean 5.886
Std Dev 8.194
Underflow 2
Overflow 0
Count
25000
20000
15000
10000
5000
0
–150
–100
–50
0
50
100
150
difference (mm)

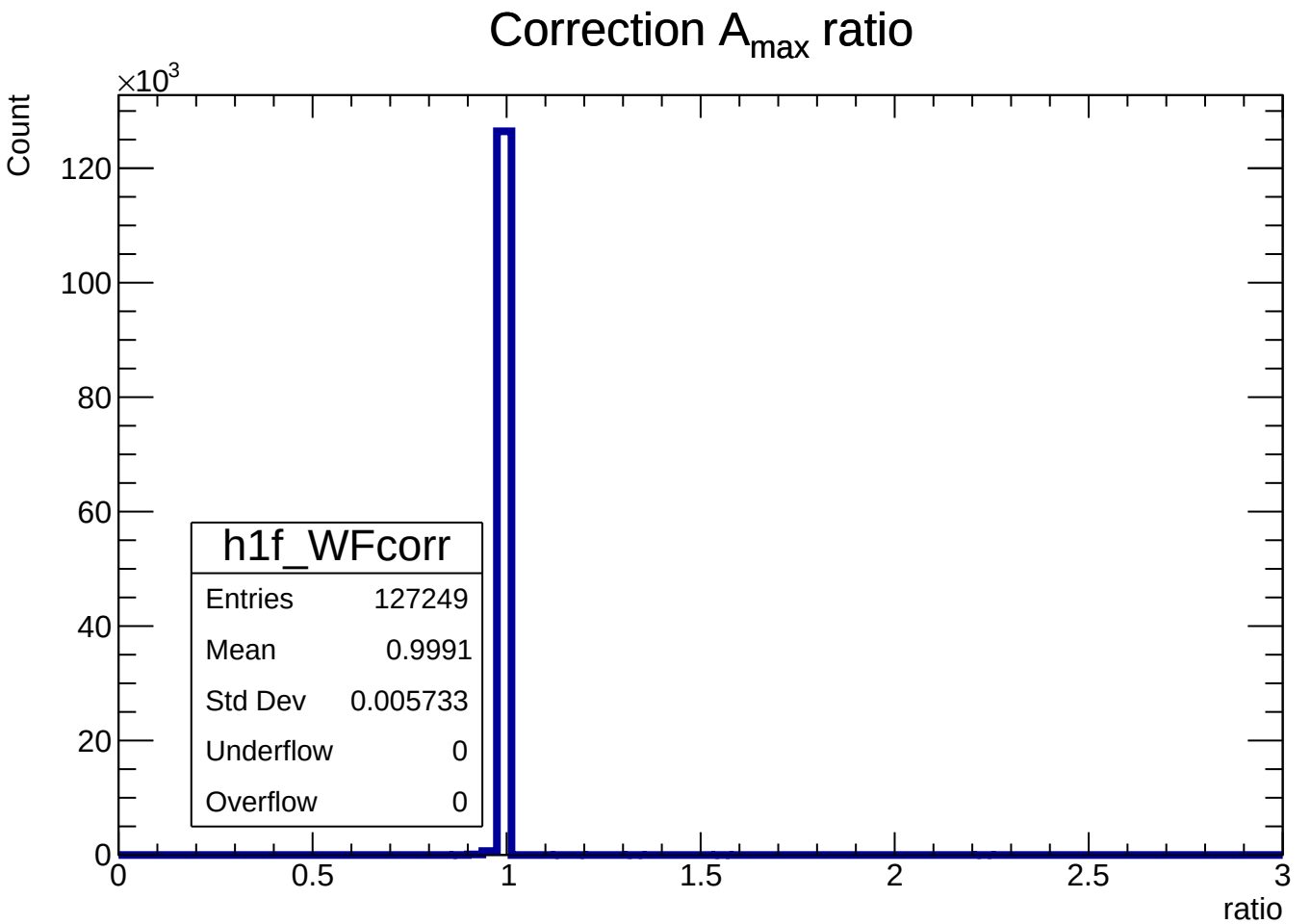

Angle φ in each pad
Count
70000
60000
50000
40000
30000
20000
10000
0
–50
–40
–30
–20
–10
0
10
φ (°)
h1f_angle
Entries 129848
Mean –1.181
Std Dev 1.499
Underflow 0
Overflow 1231

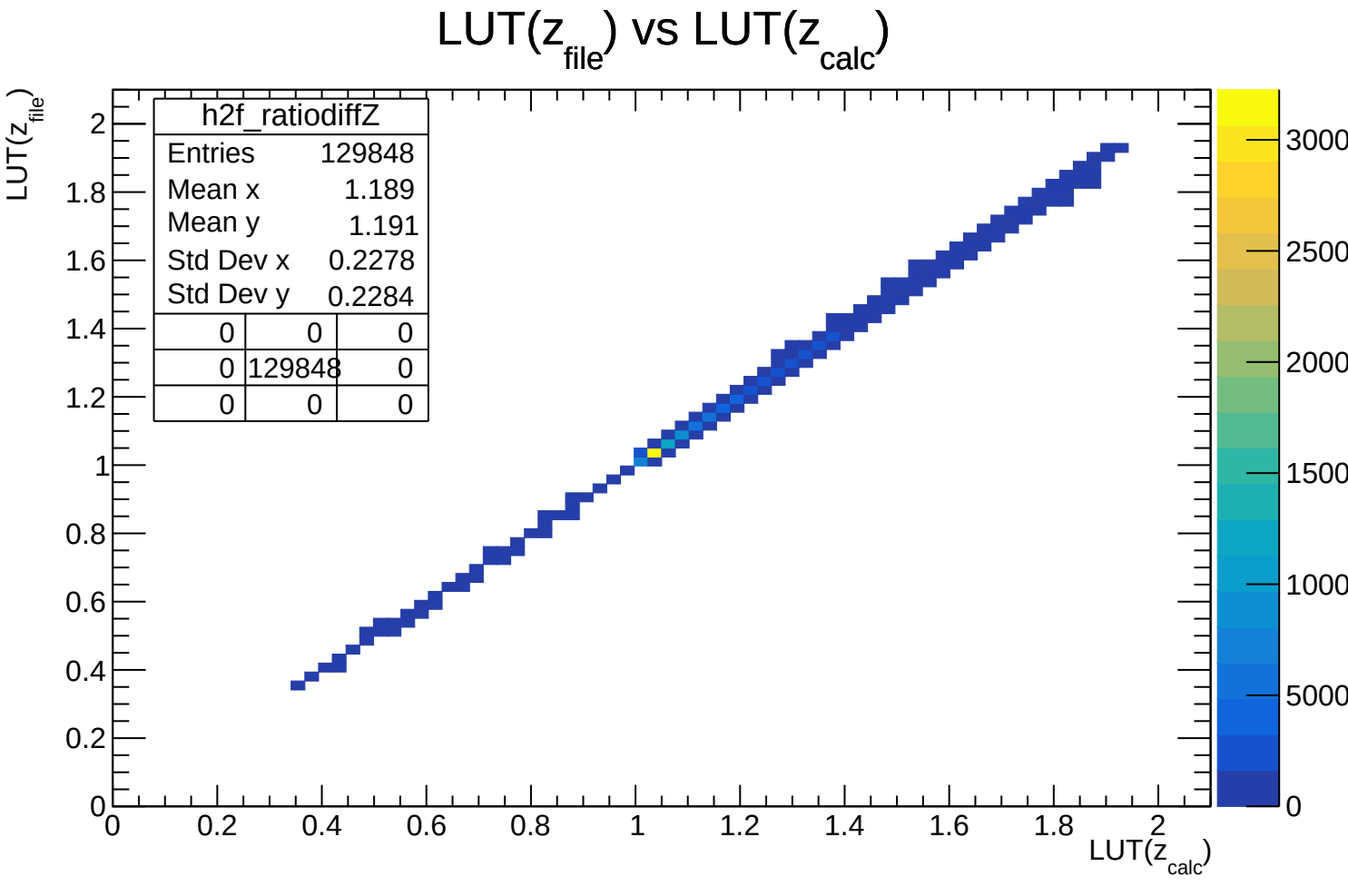

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 131243
Mean 0.9696
Std Dev 0.139
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
10^2
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

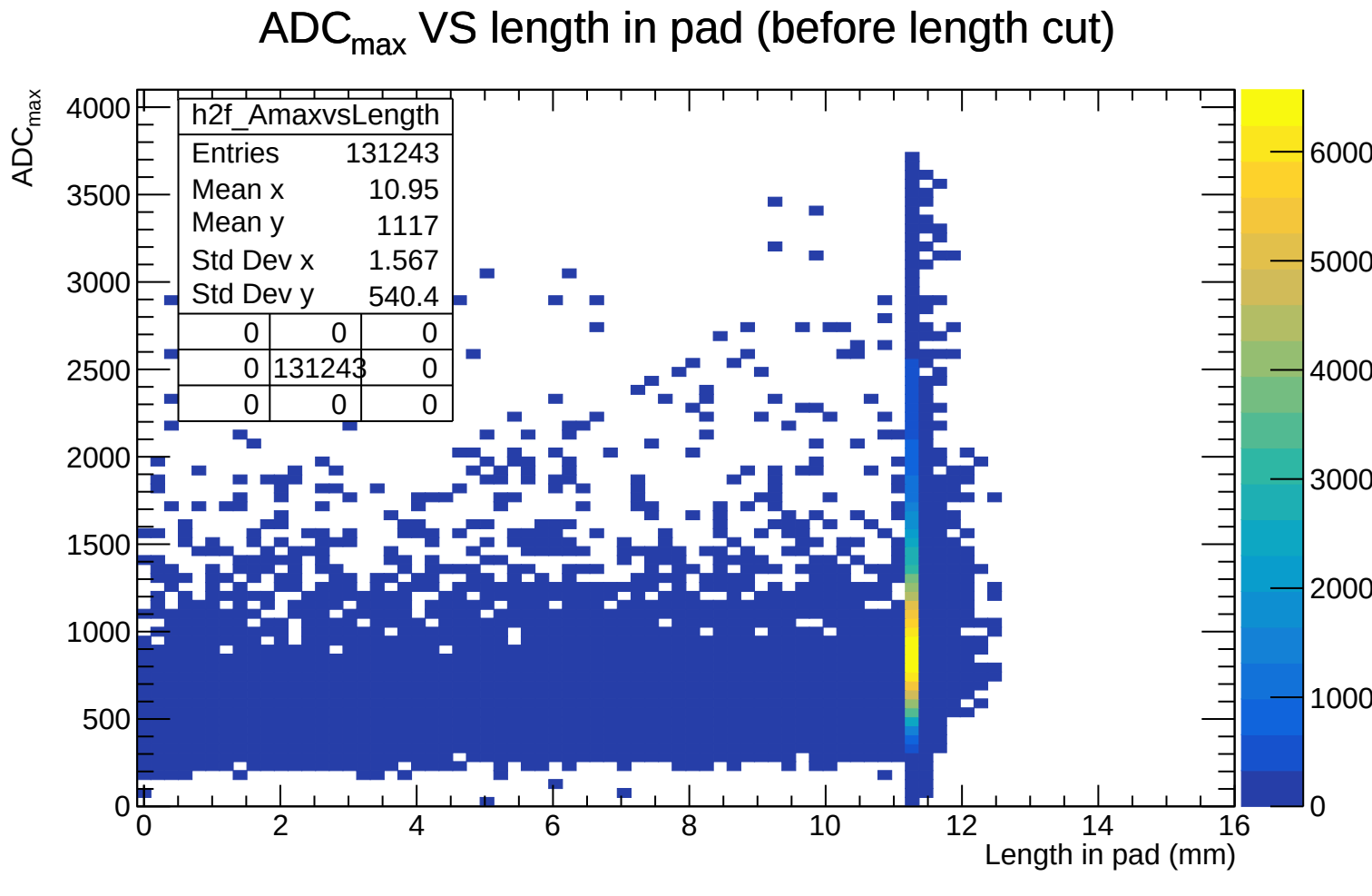

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 131243
Mean 0.001385
Std Dev 0.5502
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

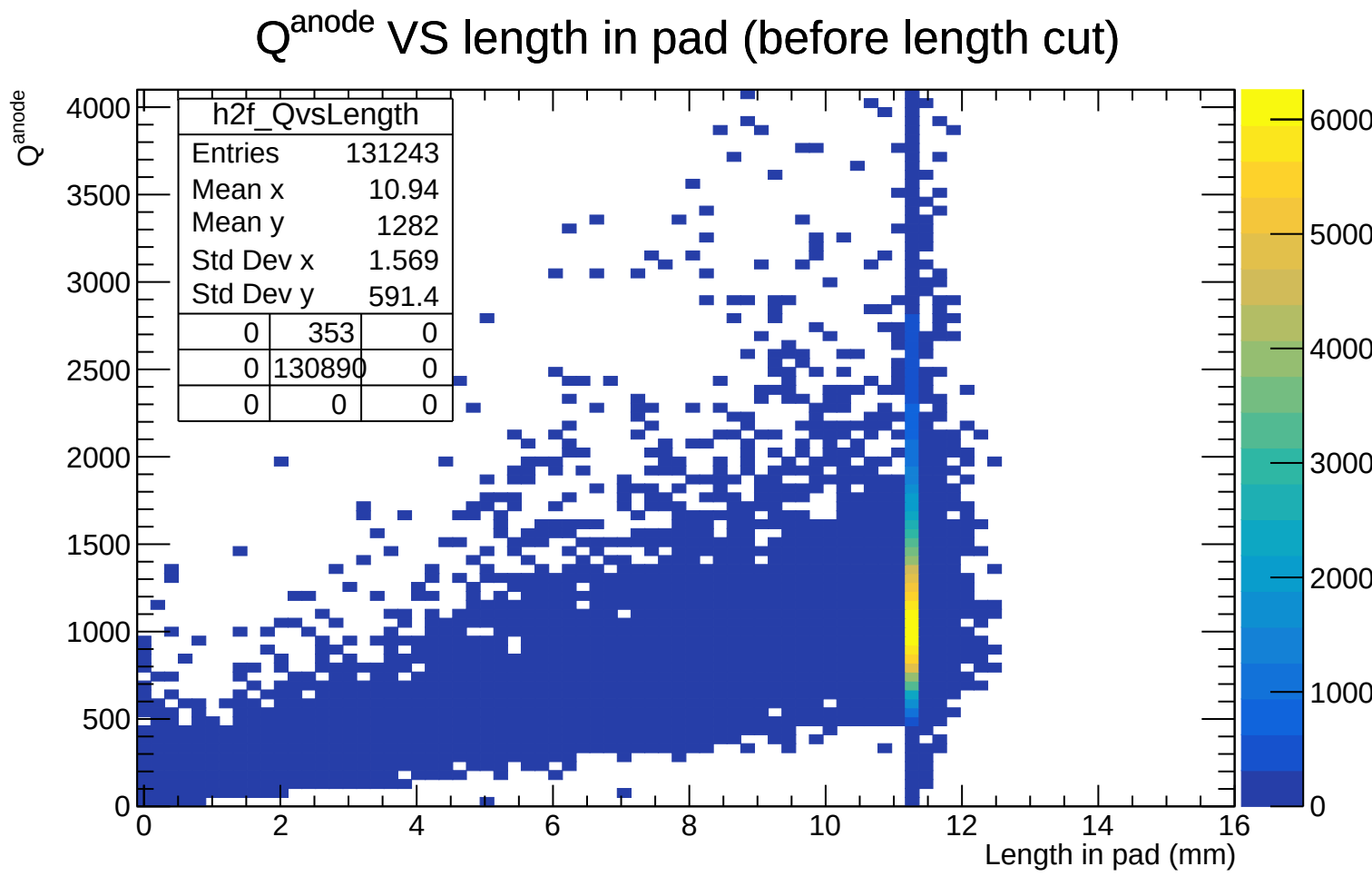

distance of track in pad
h1f_dist
Entries 131243
Mean 10.95
Std Dev 1.567
Underflow 0
Overflow 0
distance (mm)

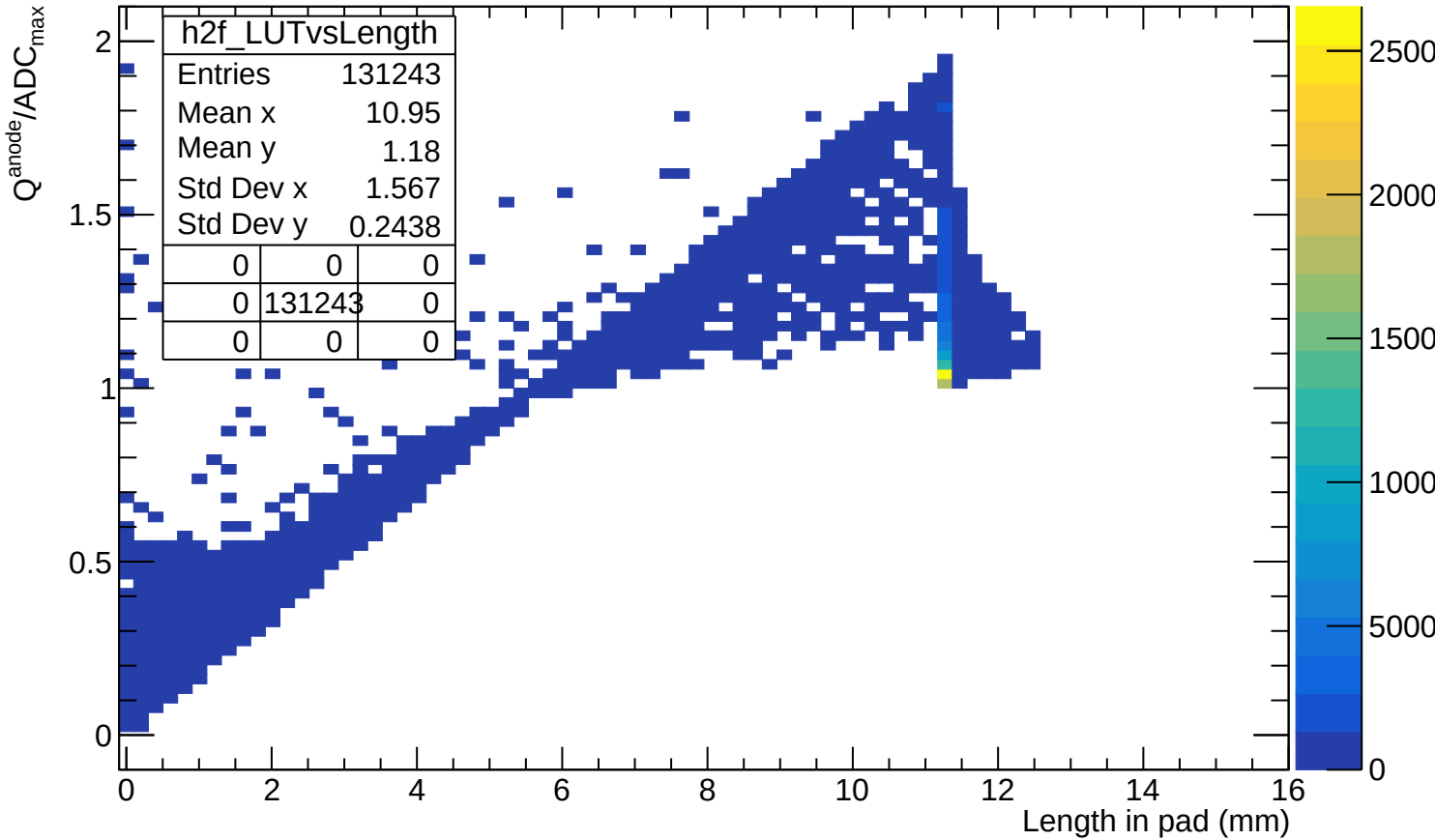

distance of track in cluster
h1f_dist_clus
Entries 127249
Mean 11.29
Std Dev 0.05027
Underflow 0
Overflow 0
distance (mm)

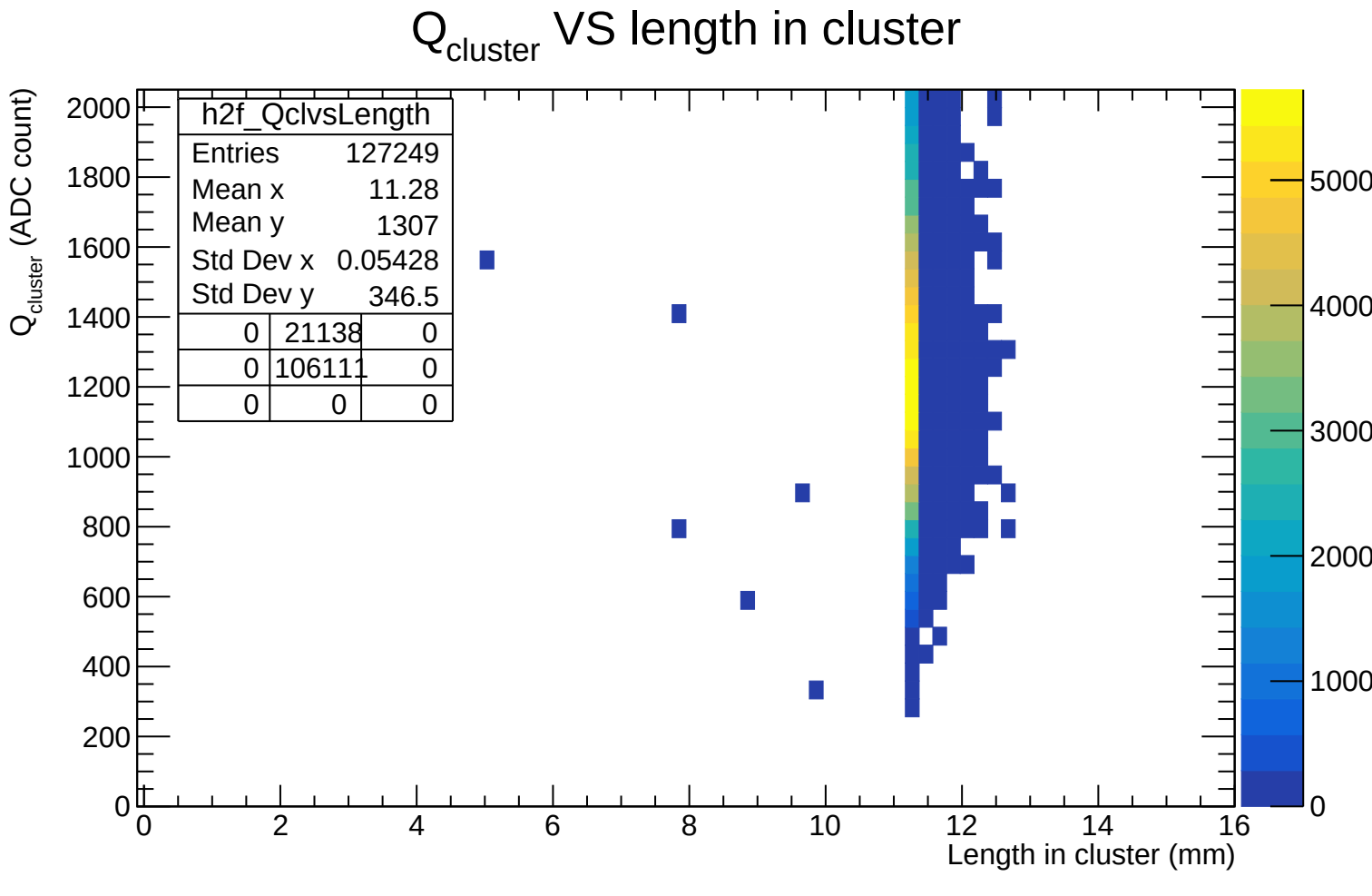

Correction A_{max} ratio
$\times 10^3$
Count
120
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 127249
Mean 0.9991
Std Dev 0.005733
Underflow 0
Overflow 0

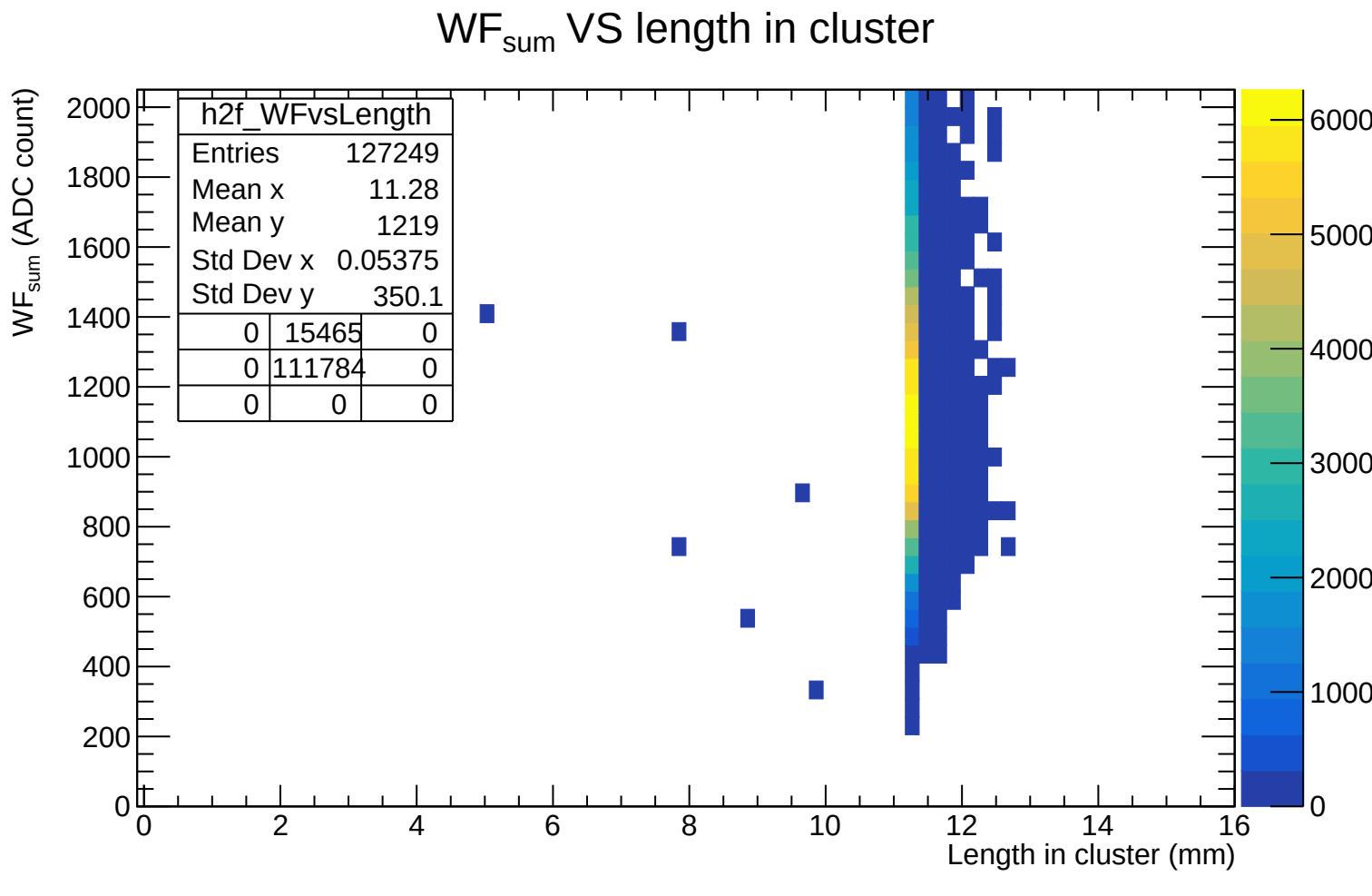

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 129848
Mean x 1.189
Mean y 1.191
Std Dev x 0.2278
Std Dev y 0.2284
0 0 0
0 129848 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5000 1000 1500 2000 2500 3000

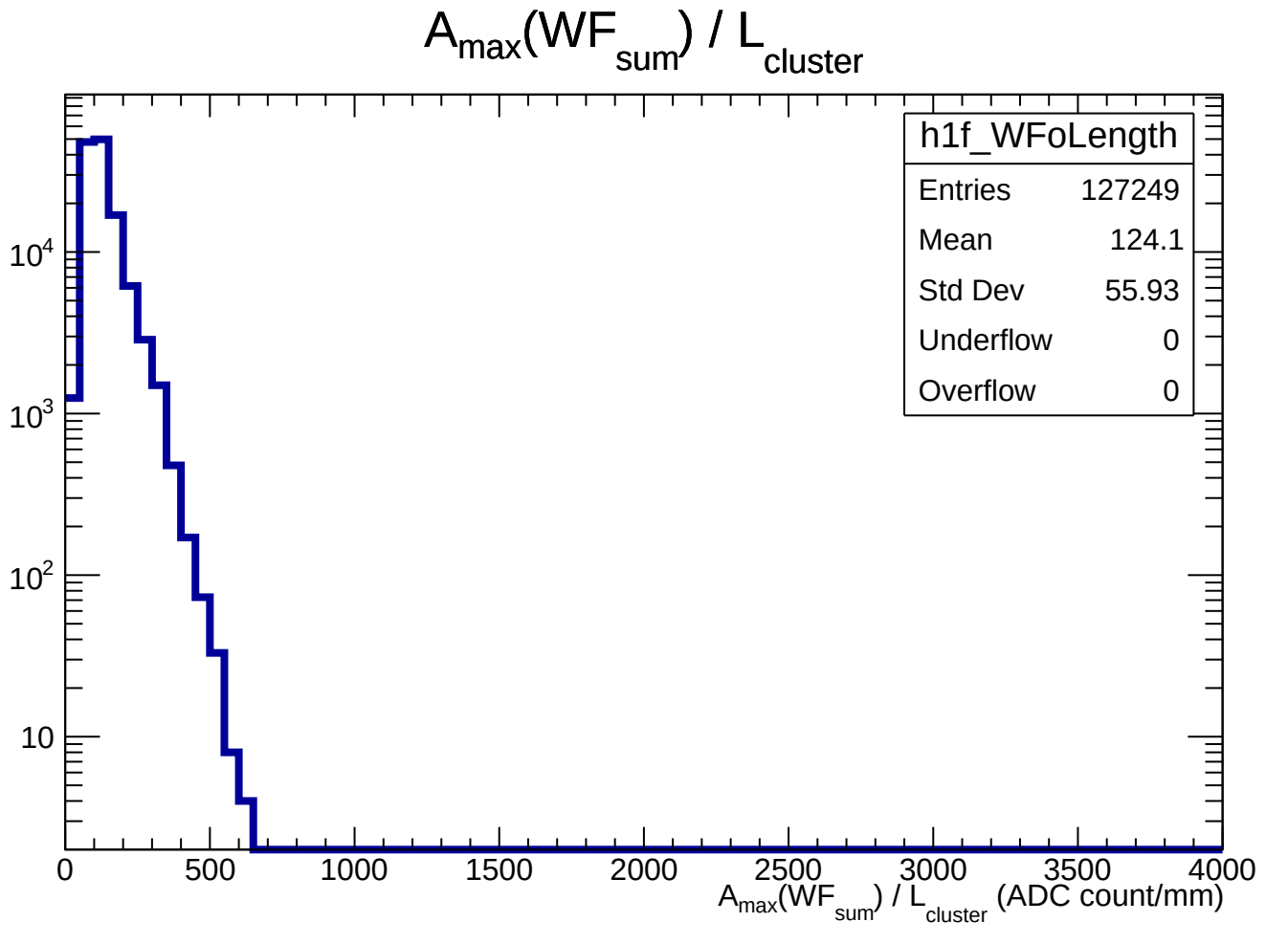

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 131243
Mean x 10.95
Mean y 1117
Std Dev x 1.567
Std Dev y 540.4
0 0 0
0 131243 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
0
1000
2000
3000
4000
5000
6000

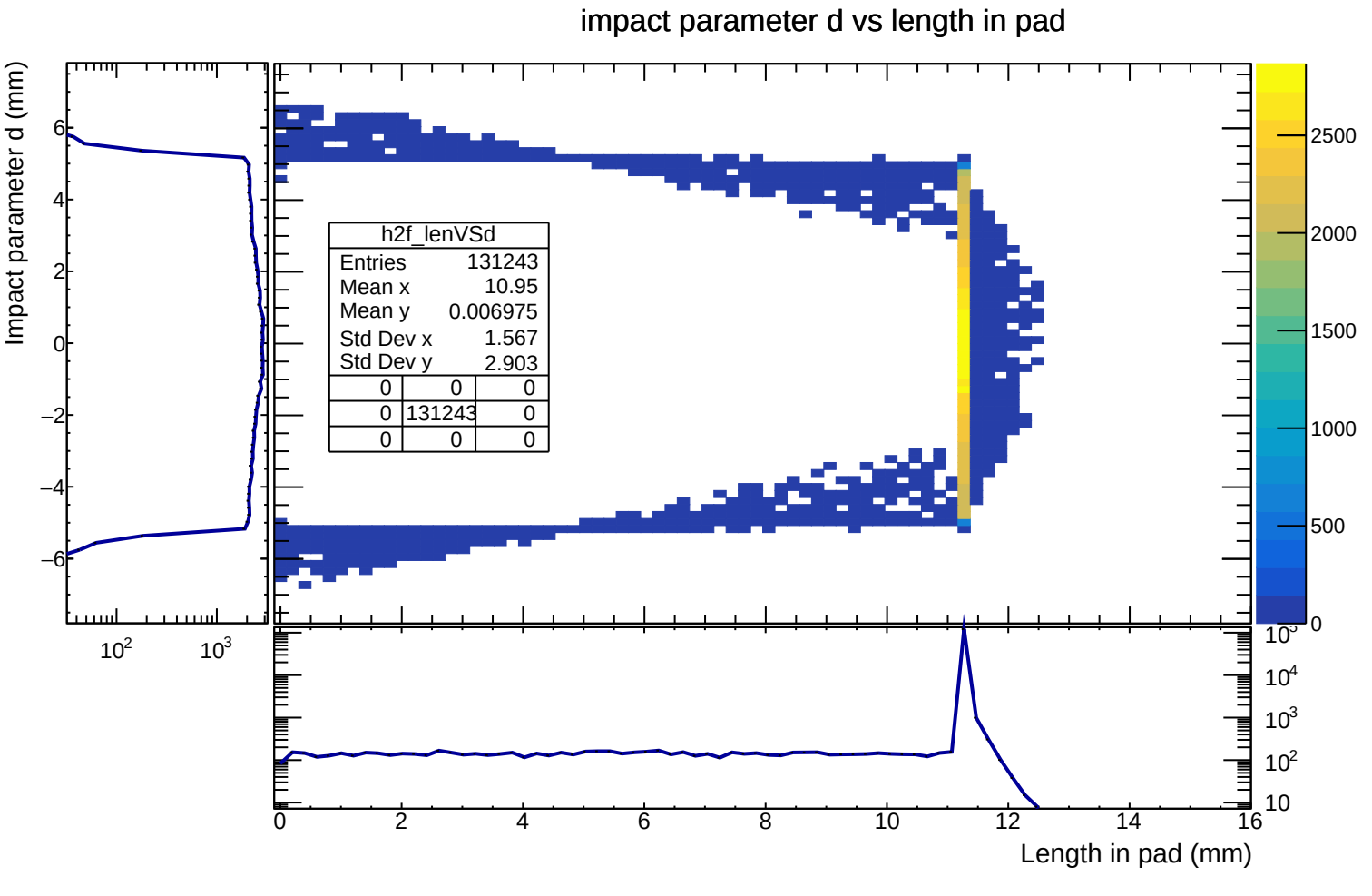

Q^anode VS length in pad (before length cut)
Q^anode
Length in pad (mm)
h2f_QvsLength
Entries 131243
Mean x 10.94
Mean y 1282
Std Dev x 1.569
Std Dev y 591.4
0 353 0
0 130890 0
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 1000 2000 3000 4000 5000 6000


Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 131243
Mean x 10.95
Mean y 1.18
Std Dev x 1.567
Std Dev y 0.2438
0 0 0
0 131243 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 127249
Mean x 11.28
Mean y 1307
Std Dev x 0.05428
Std Dev y 346.5
0 21138 0
0 106111 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


WF_sum VS length in cluster
h2f_WFvsLength
Entries 127249
Mean x 11.28
Mean y 1219
Std Dev x 0.05375
Std Dev y 350.1
0 15465 0
0 111784 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


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 127249
Mean 124.1
Std Dev 55.93
Underflow 0
Overflow 0
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)
h2f_lenVSd
Entries 131243
Mean x 10.95
Mean y 0.006975
Std Dev x 1.567
Std Dev y 2.903
0 0 0
0 131243 0
0 0 0
Length in pad (mm)