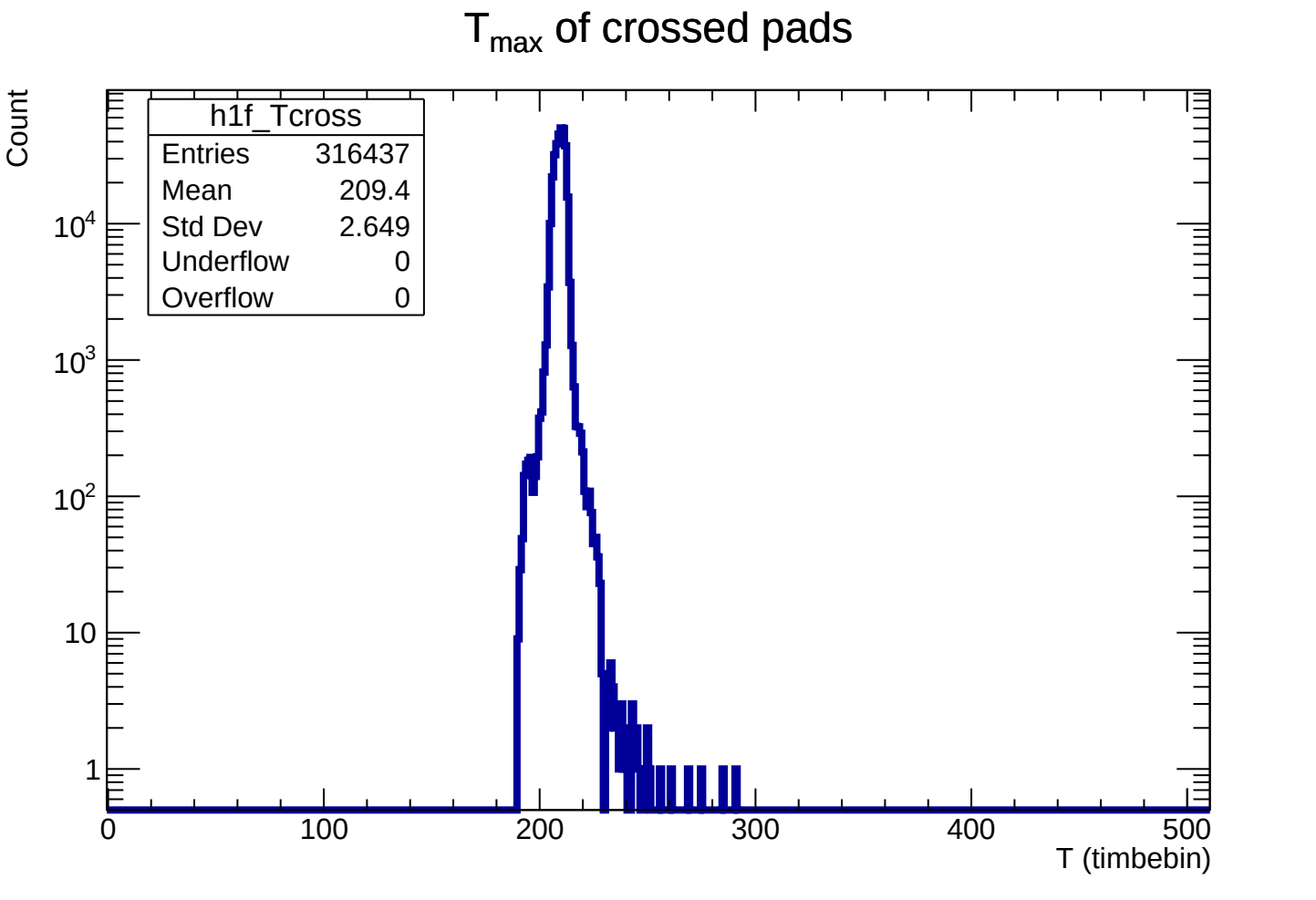
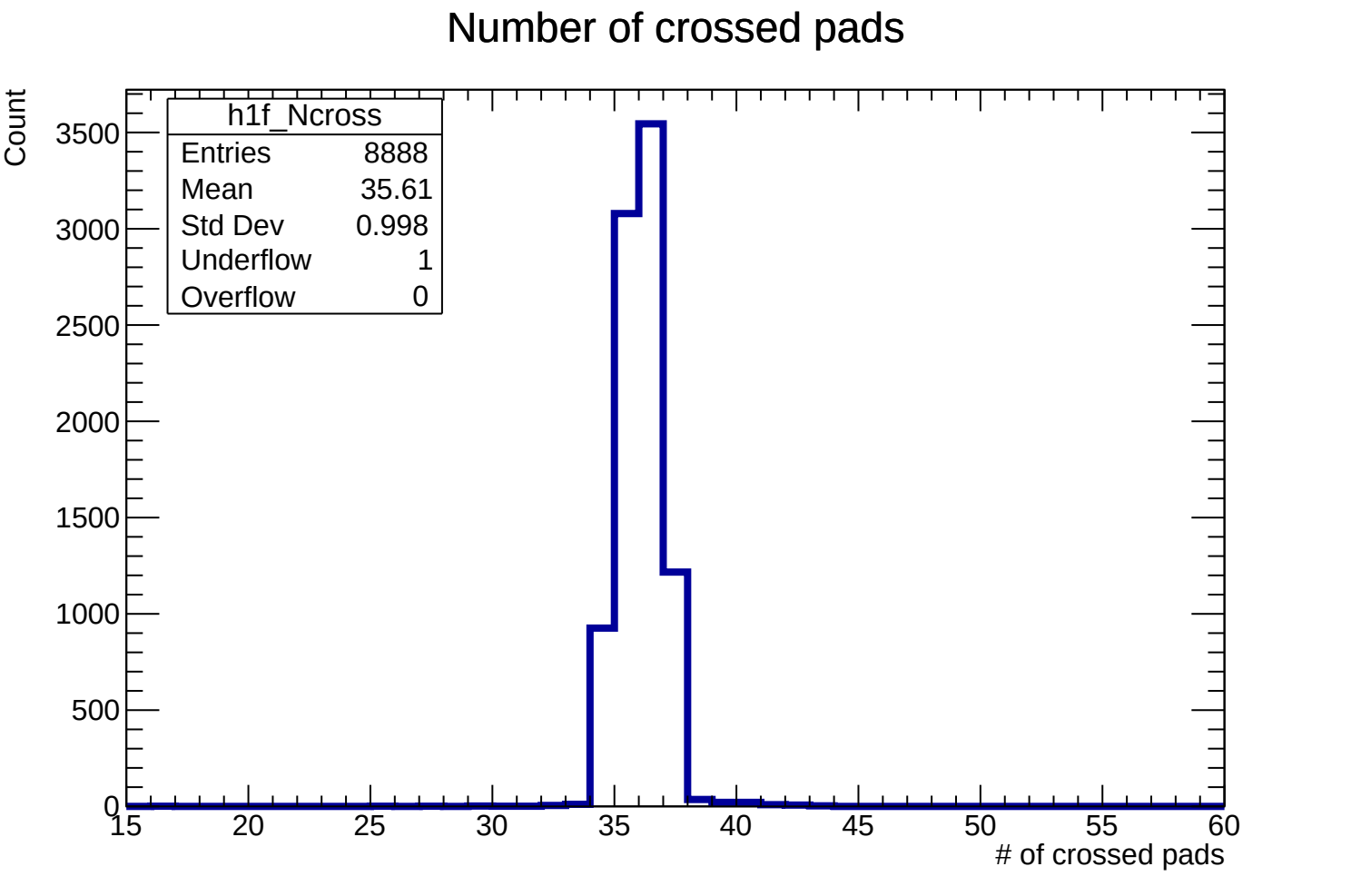
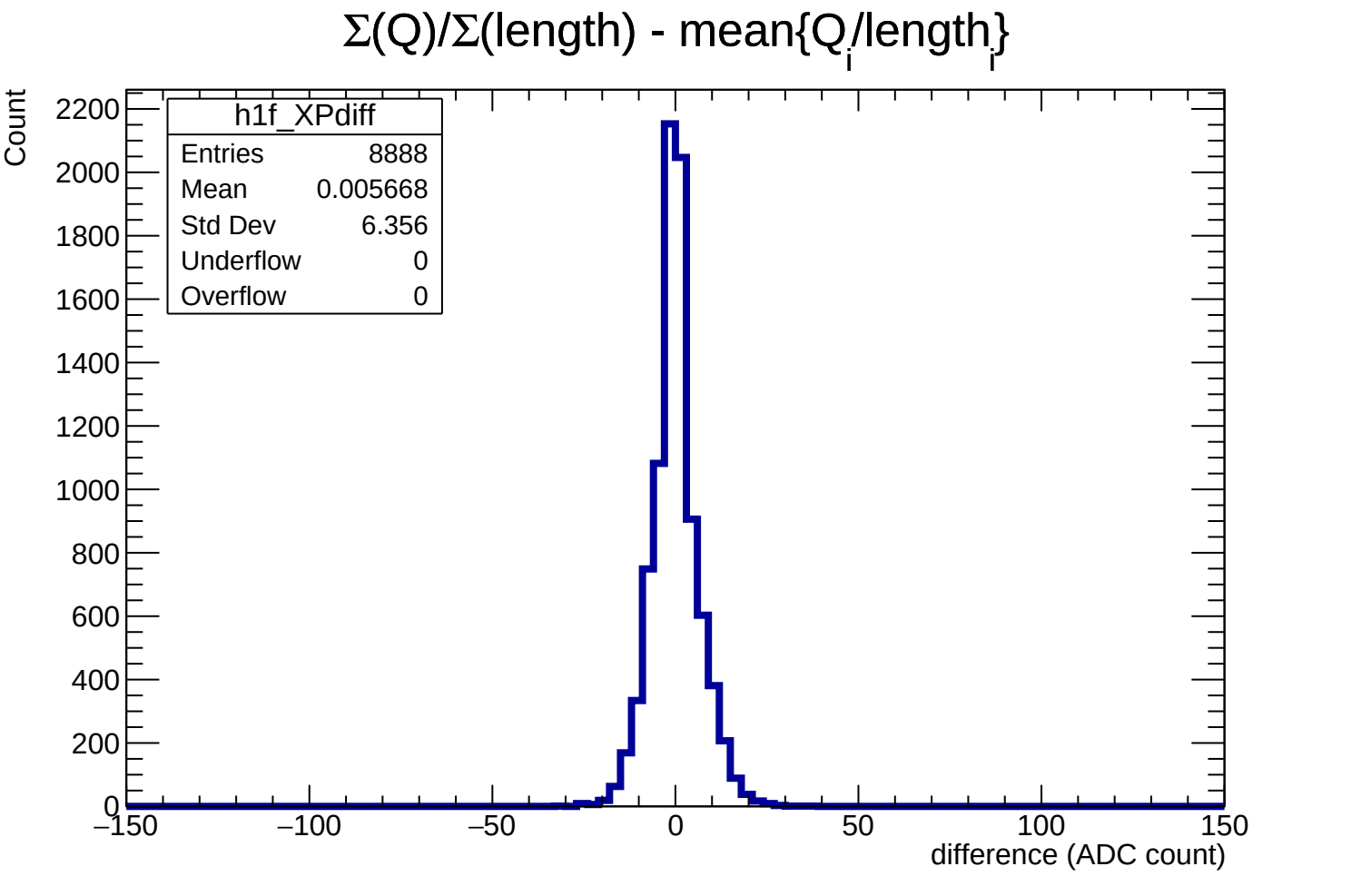
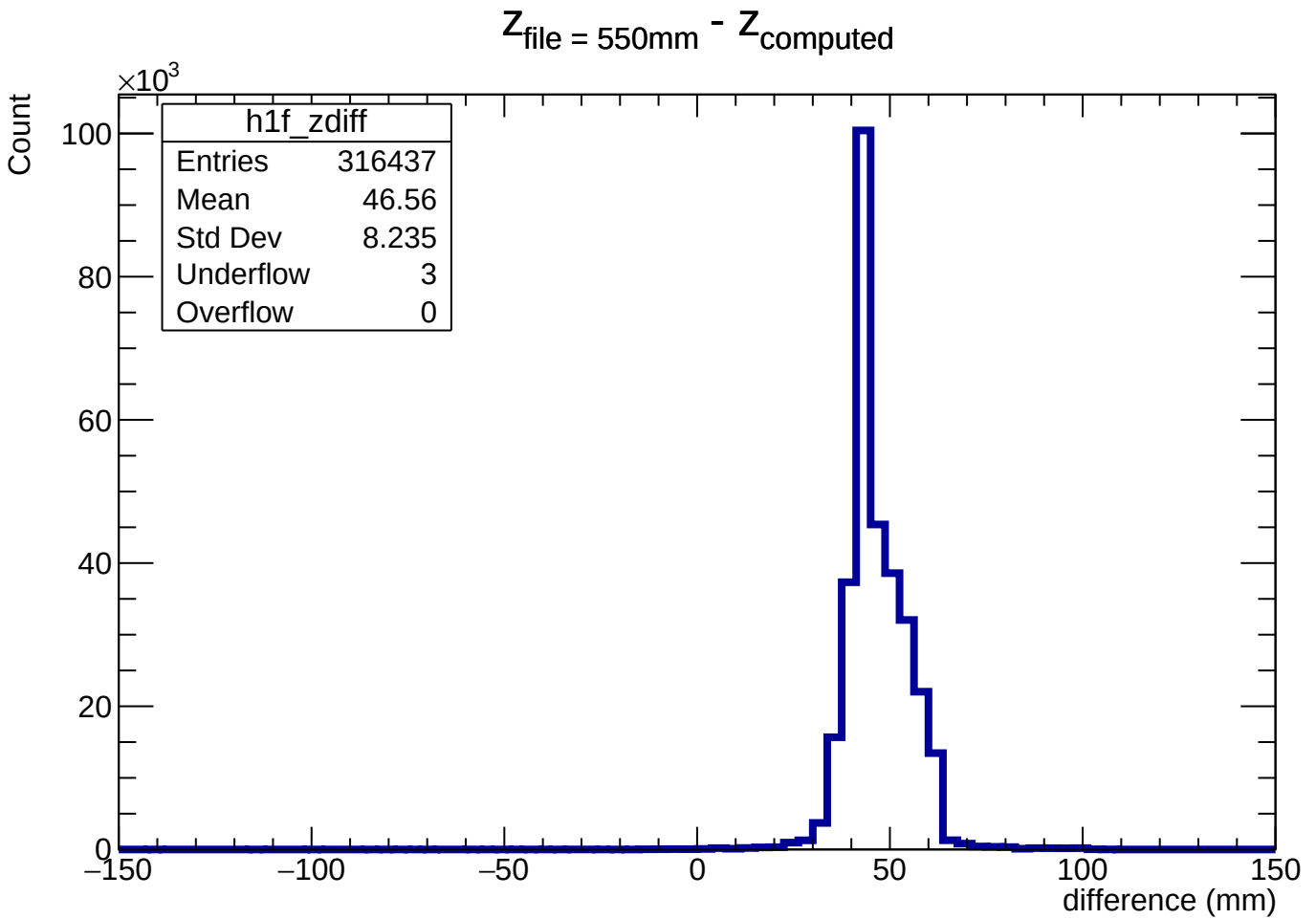
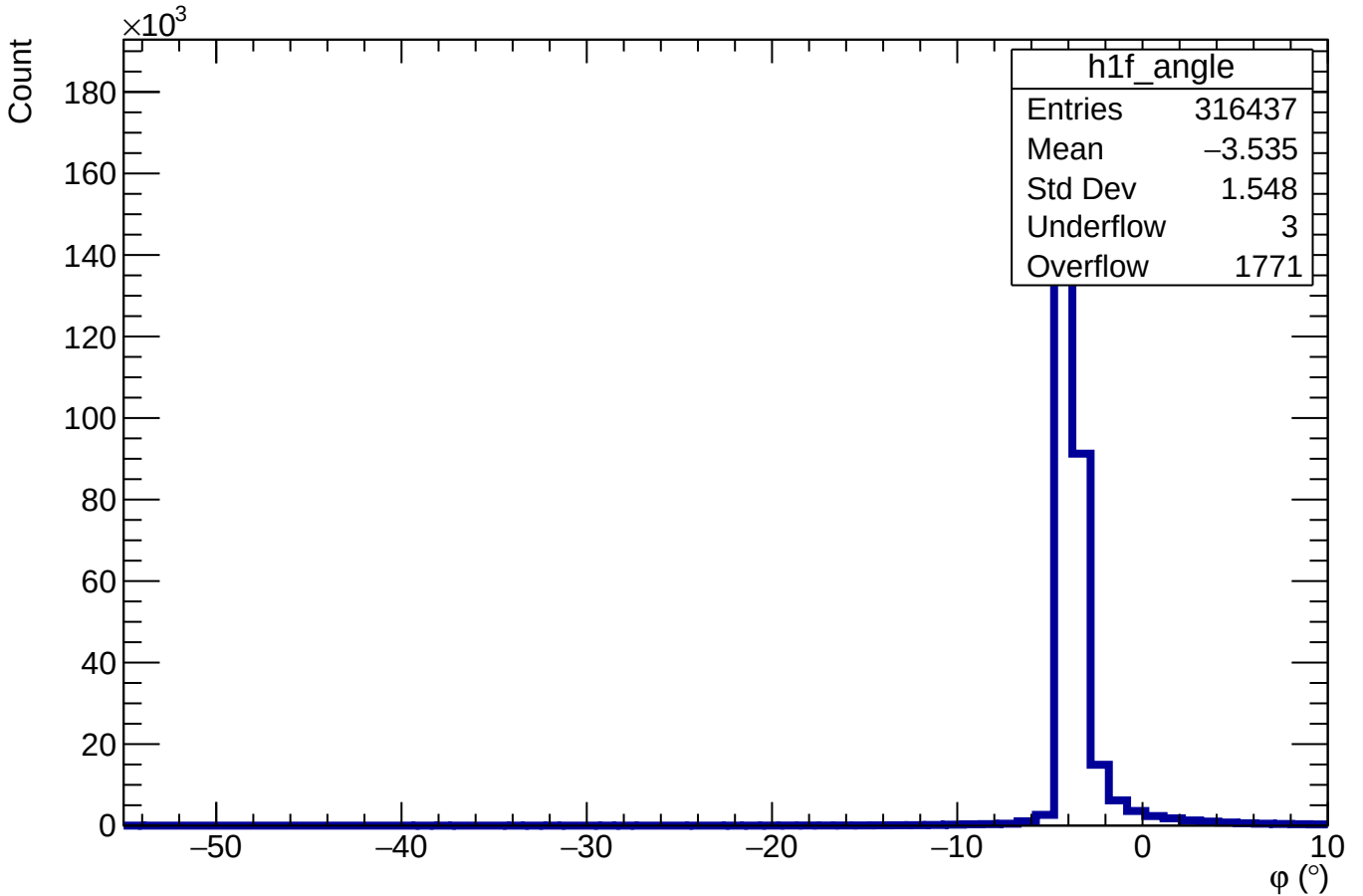
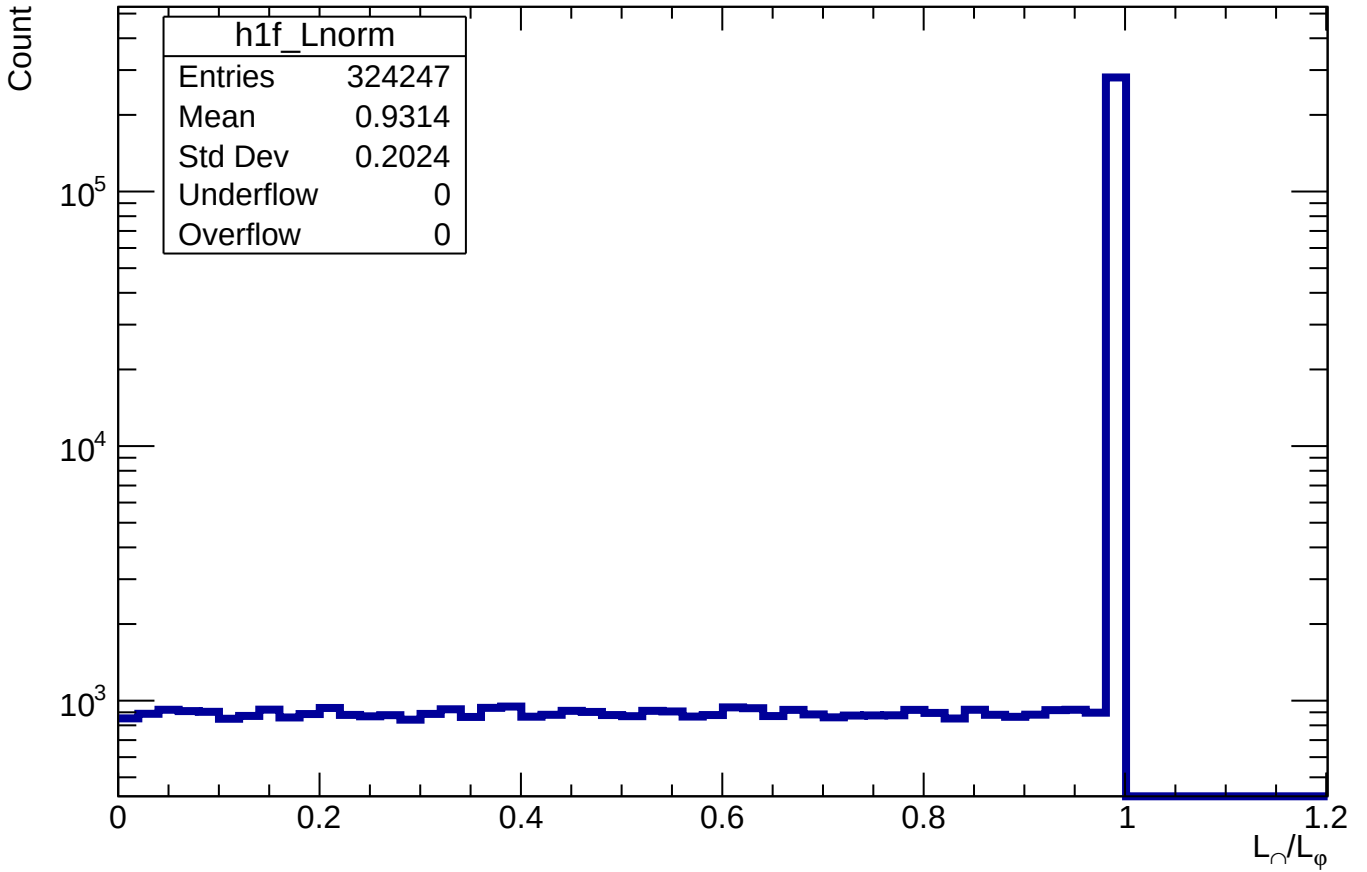

T_{max} of crossed pads
h1f_Tcross
Entries 316437
Mean 209.4
Std Dev 2.649
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

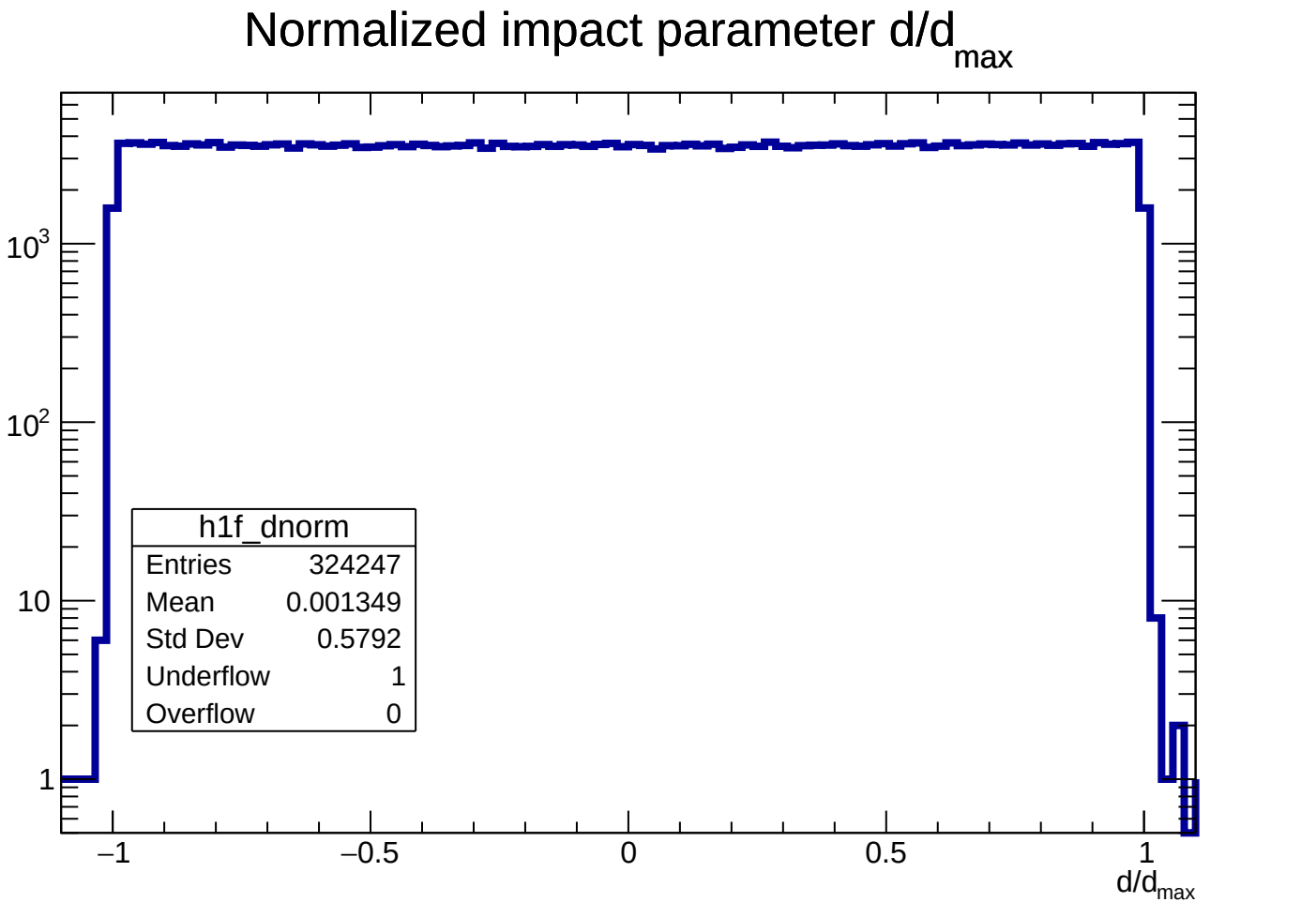

Number of crossed pads
h1f_Ncross
Entries 8888
Mean 35.61
Std Dev 0.998
Underflow 1
Overflow 0
Count
0
500
1000
1500
2000
2500
3000
3500
15
20
25
30
35
40
45
50
55
60
# of crossed pads

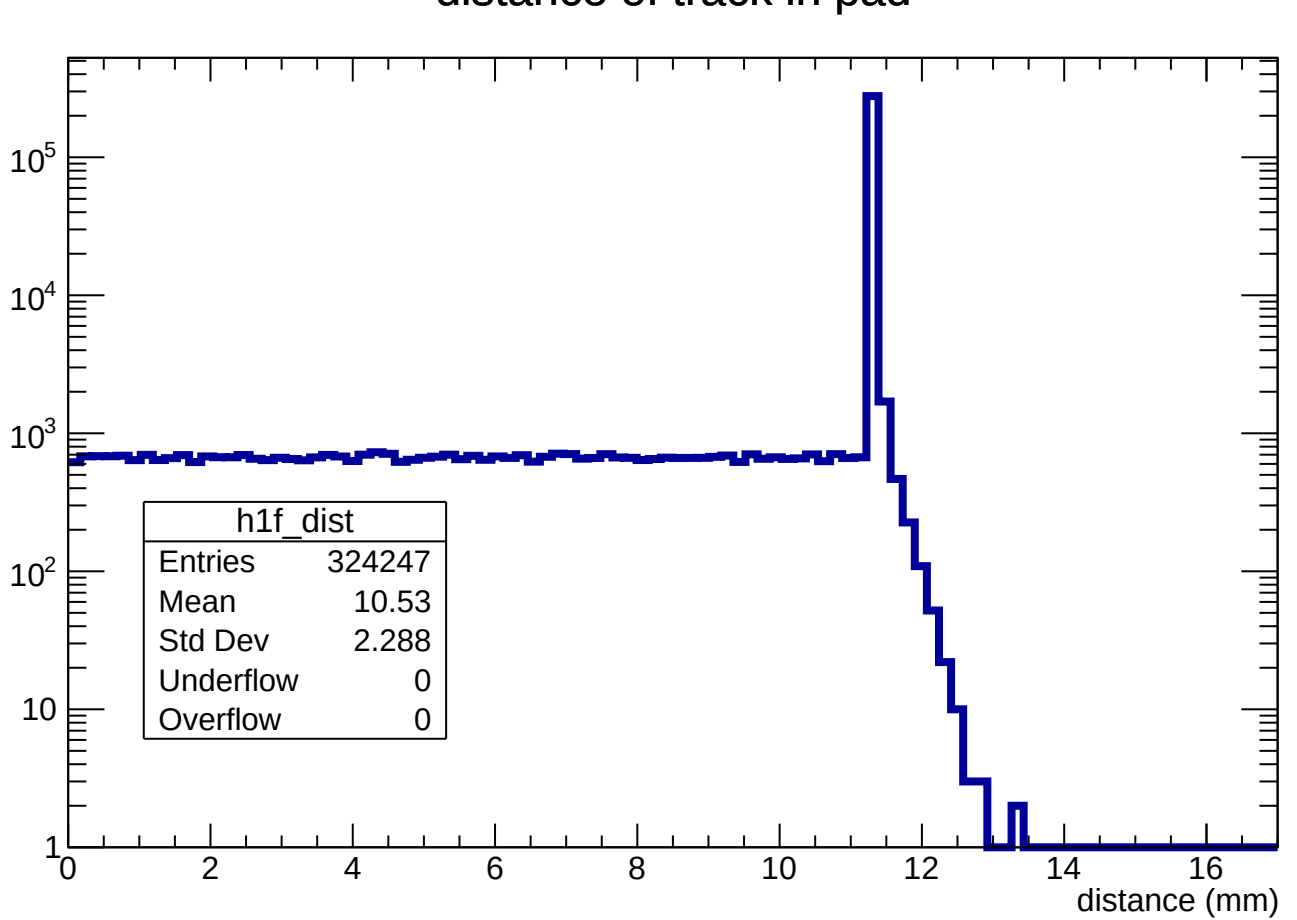

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 8888
Mean 0.005668
Std Dev 6.356
Underflow 0
Overflow 0
Count
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–150
–100
–50
0
50
100
150
difference (ADC count)

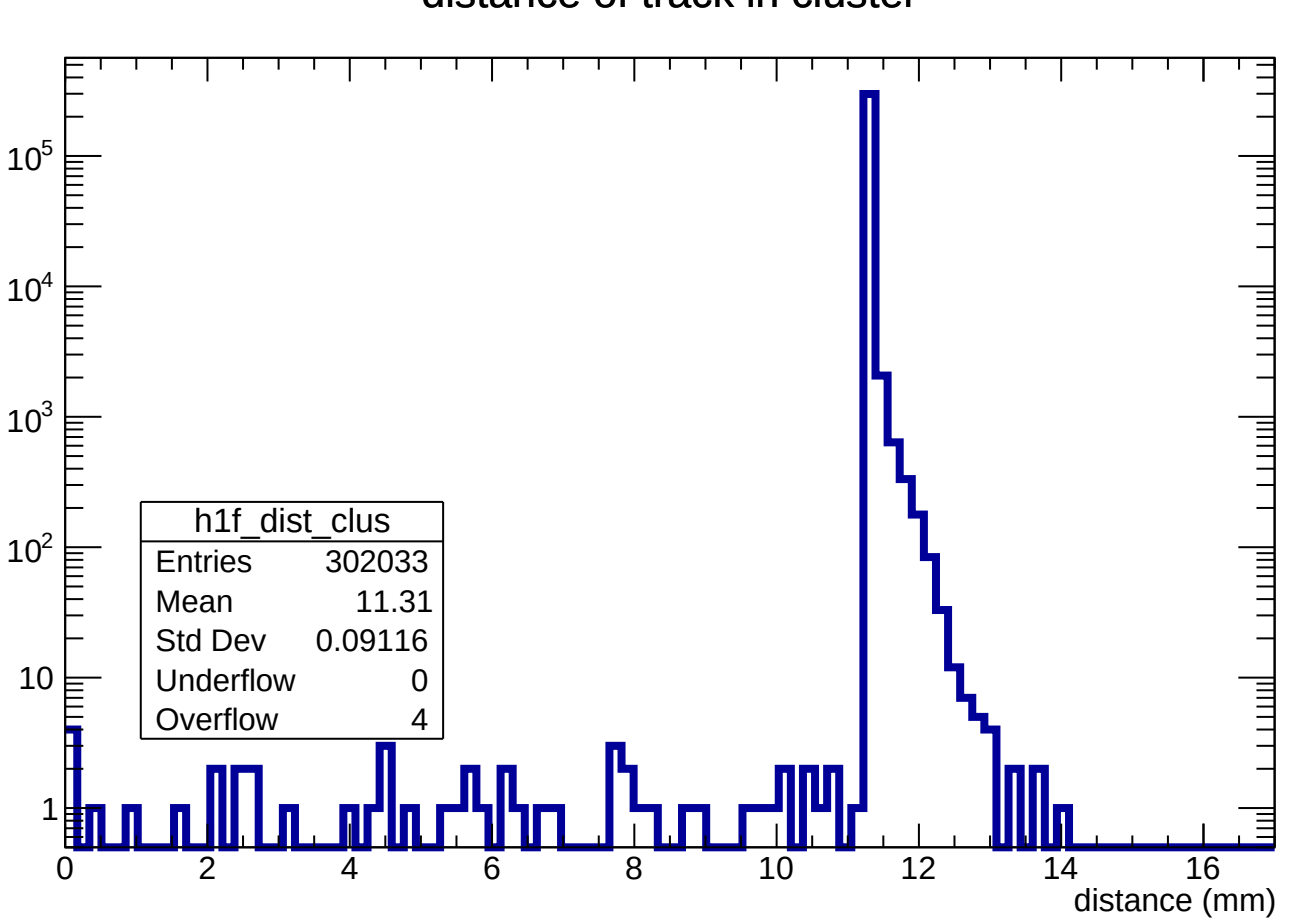

$Z_{file = 550mm} - Z_{computed}$
×10^3
Count
h1f_zdiff
Entries 316437
Mean 46.56
Std Dev 8.235
Underflow 3
Overflow 0
100
80
60
40
20
0
–150
–100
–50
0
50
100
150
difference (mm)

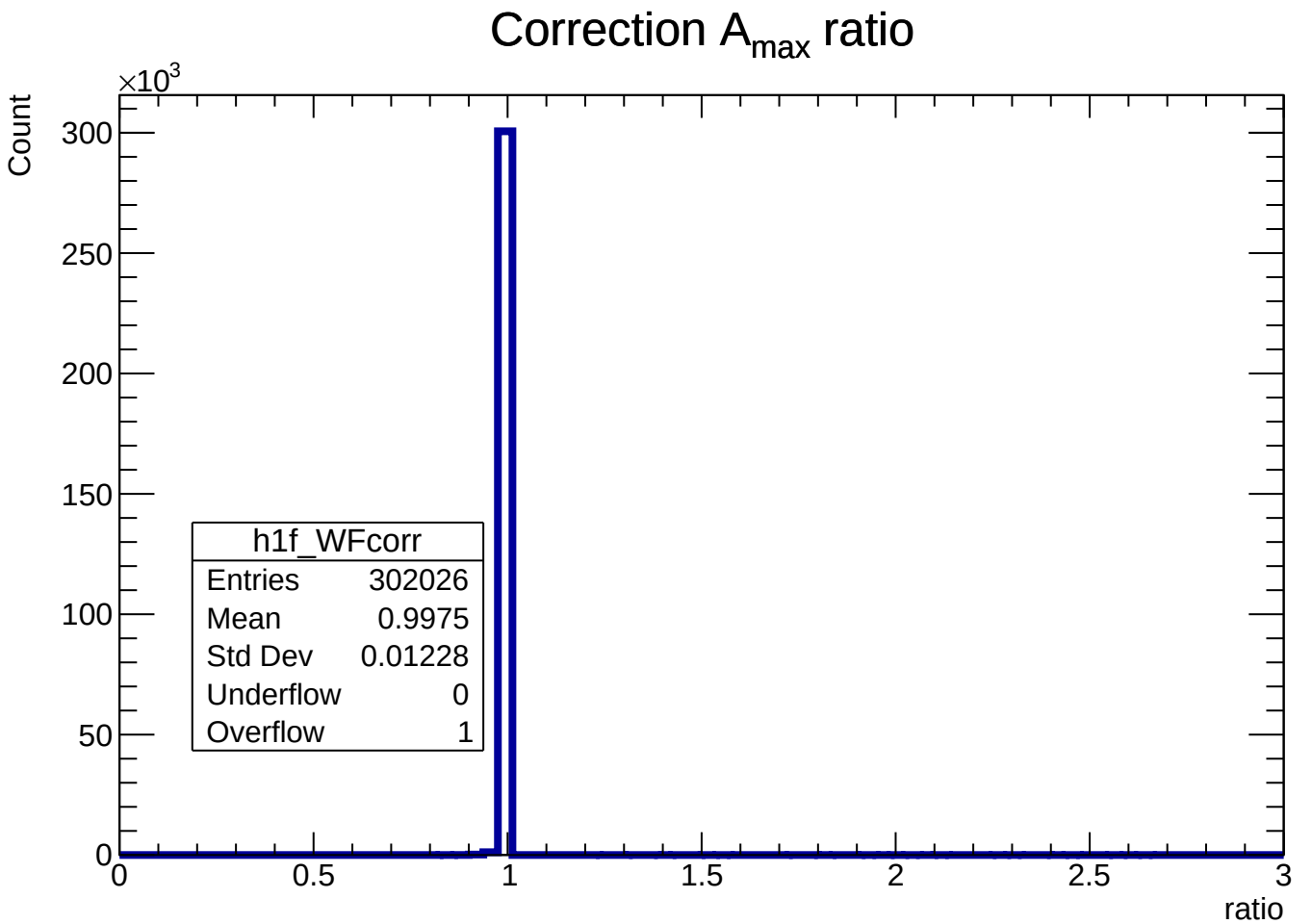

Angle φ in each pad
×10^3
Count
180
160
140
120
100
80
60
40
20
0
h1f_angle
Entries 316437
Mean −3.535
Std Dev 1.548
Underflow 3
Overflow 1771
−50
−40
−30
−20
−10
0
10
φ (°)

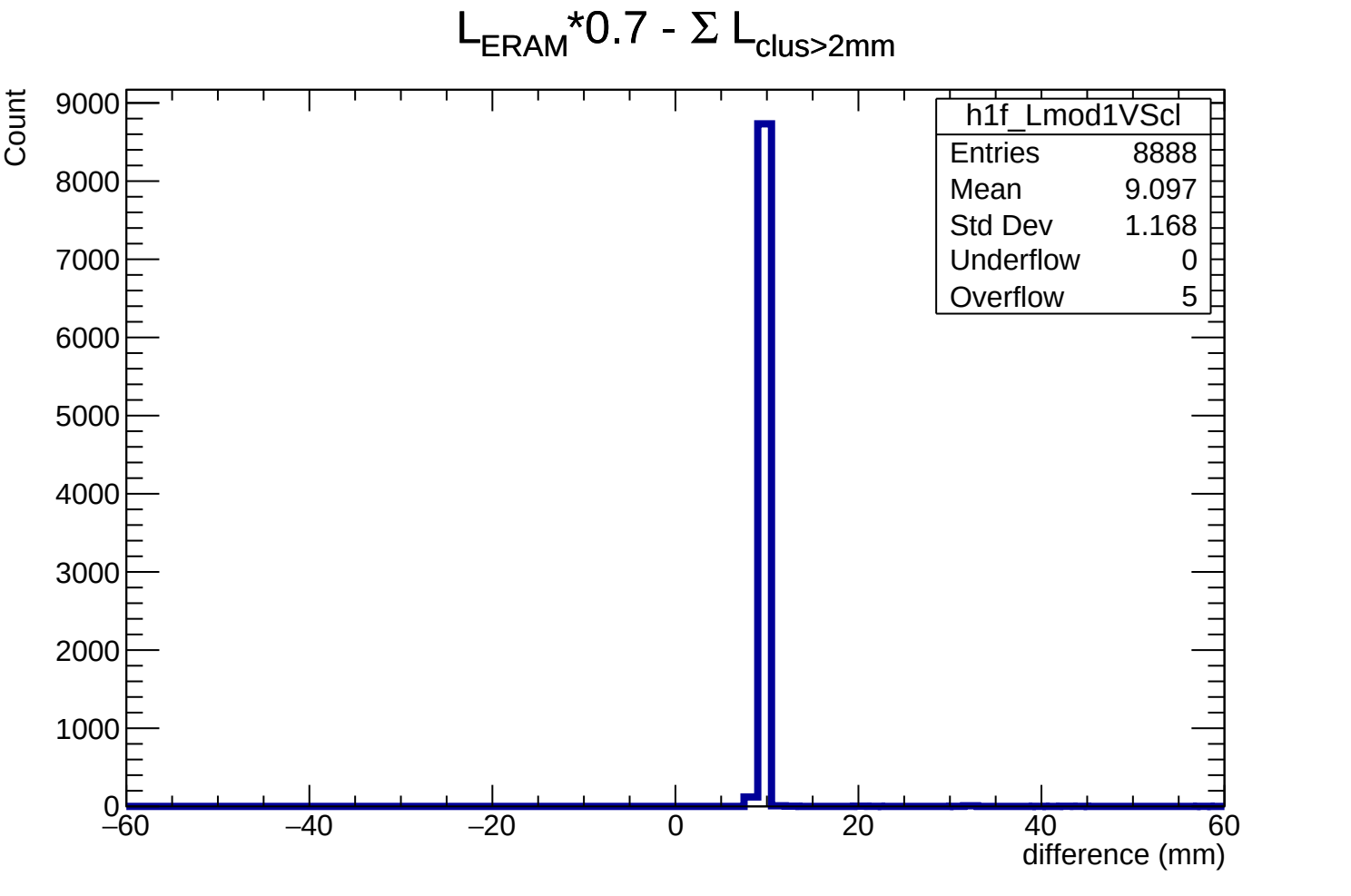

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 324247
Mean 0.9314
Std Dev 0.2024
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

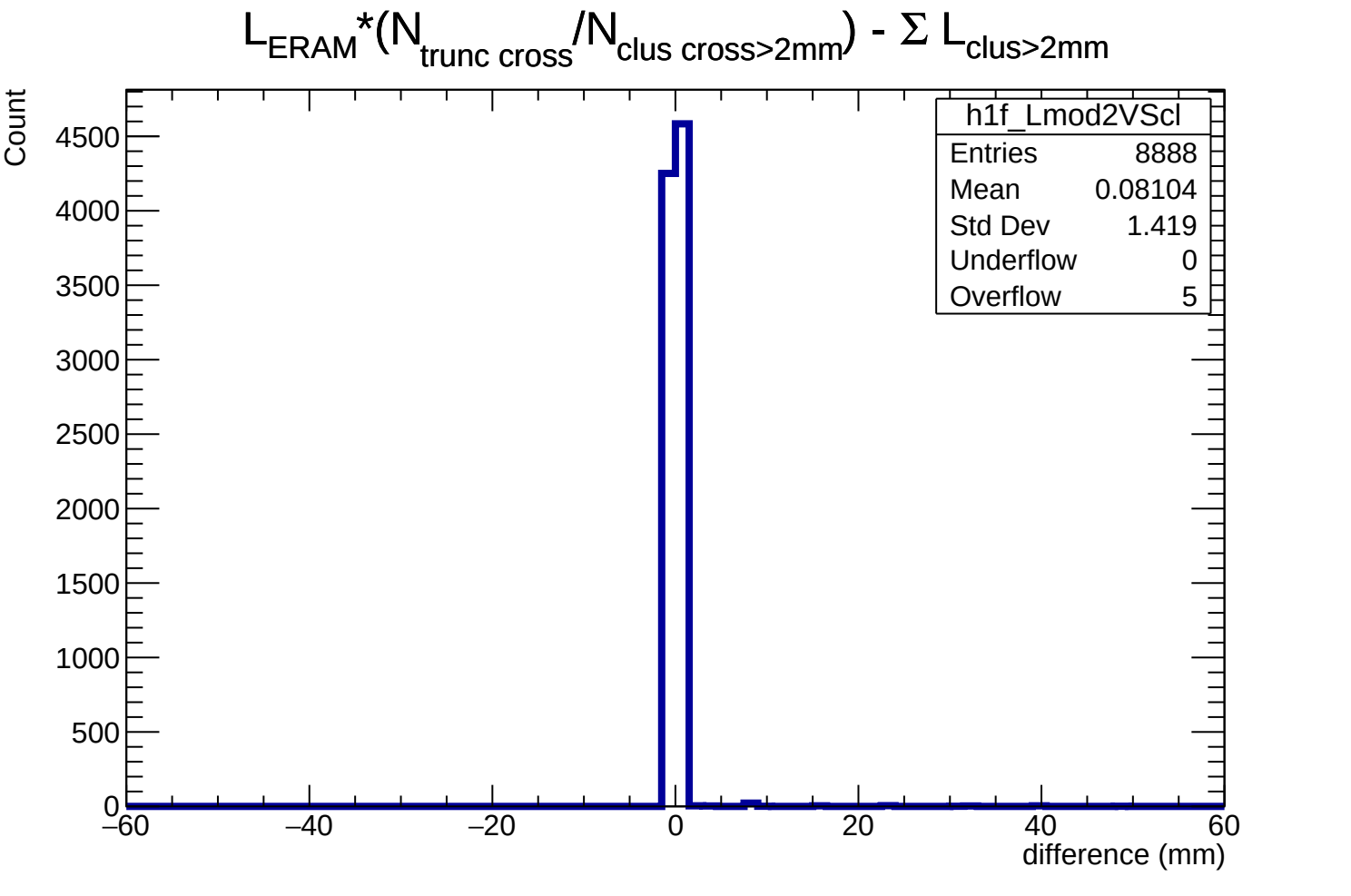

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 324247
Mean 0.001349
Std Dev 0.5792
Underflow 1
Overflow 0
–1
–0.5
0
0.5
1
d/d max

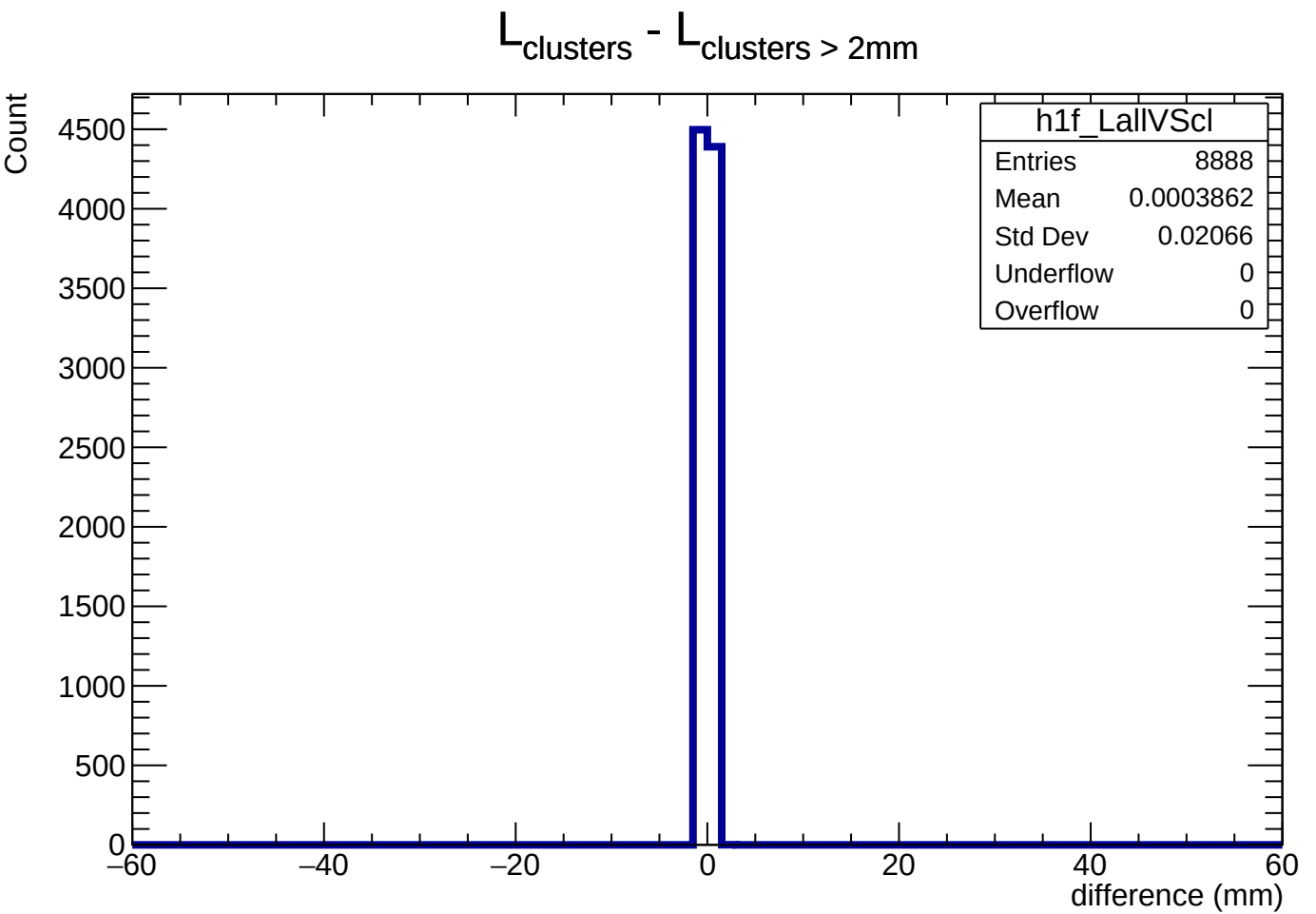

distance of track in pad
h1f_dist
Entries 324247
Mean 10.53
Std Dev 2.288
Underflow 0
Overflow 0
distance (mm)

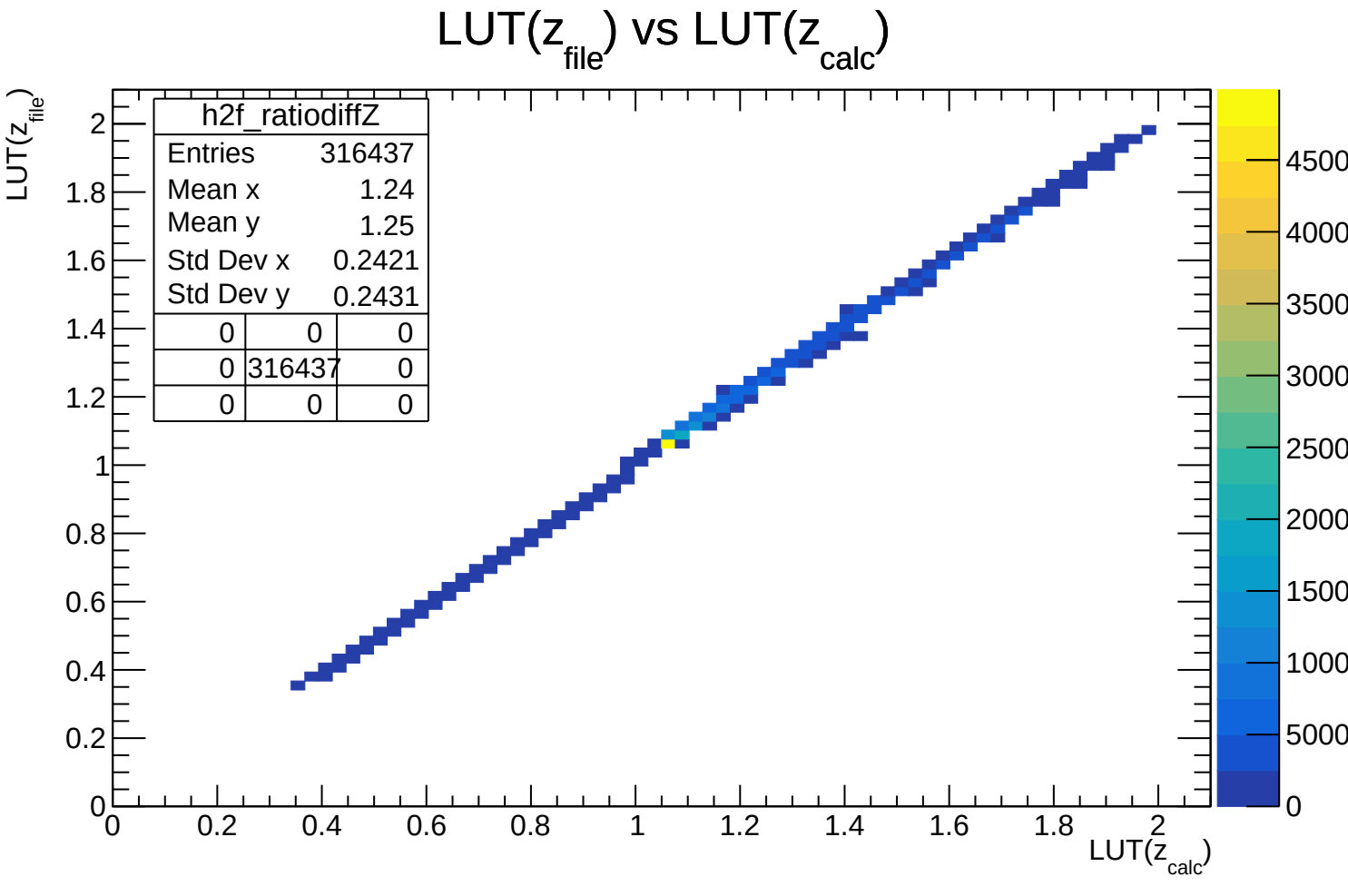

distance of track in cluster
h1f_dist_clus
Entries 302033
Mean 11.31
Std Dev 0.09116
Underflow 0
Overflow 4
distance (mm)

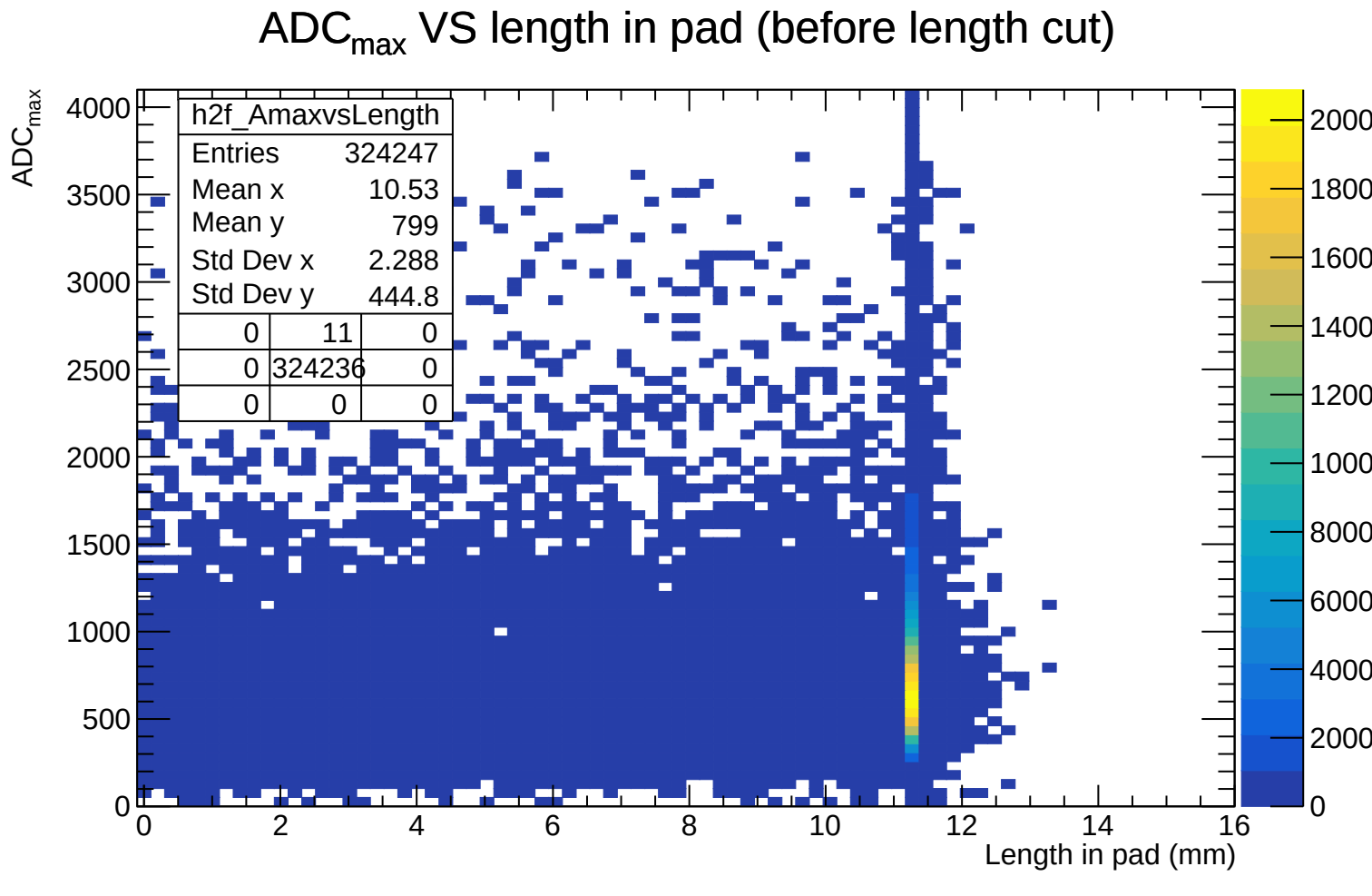

Correction A_{max} ratio
$\times 10^3$
Count
300
250
200
150
100
50
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 302026
Mean 0.9975
Std Dev 0.01228
Underflow 0
Overflow 1

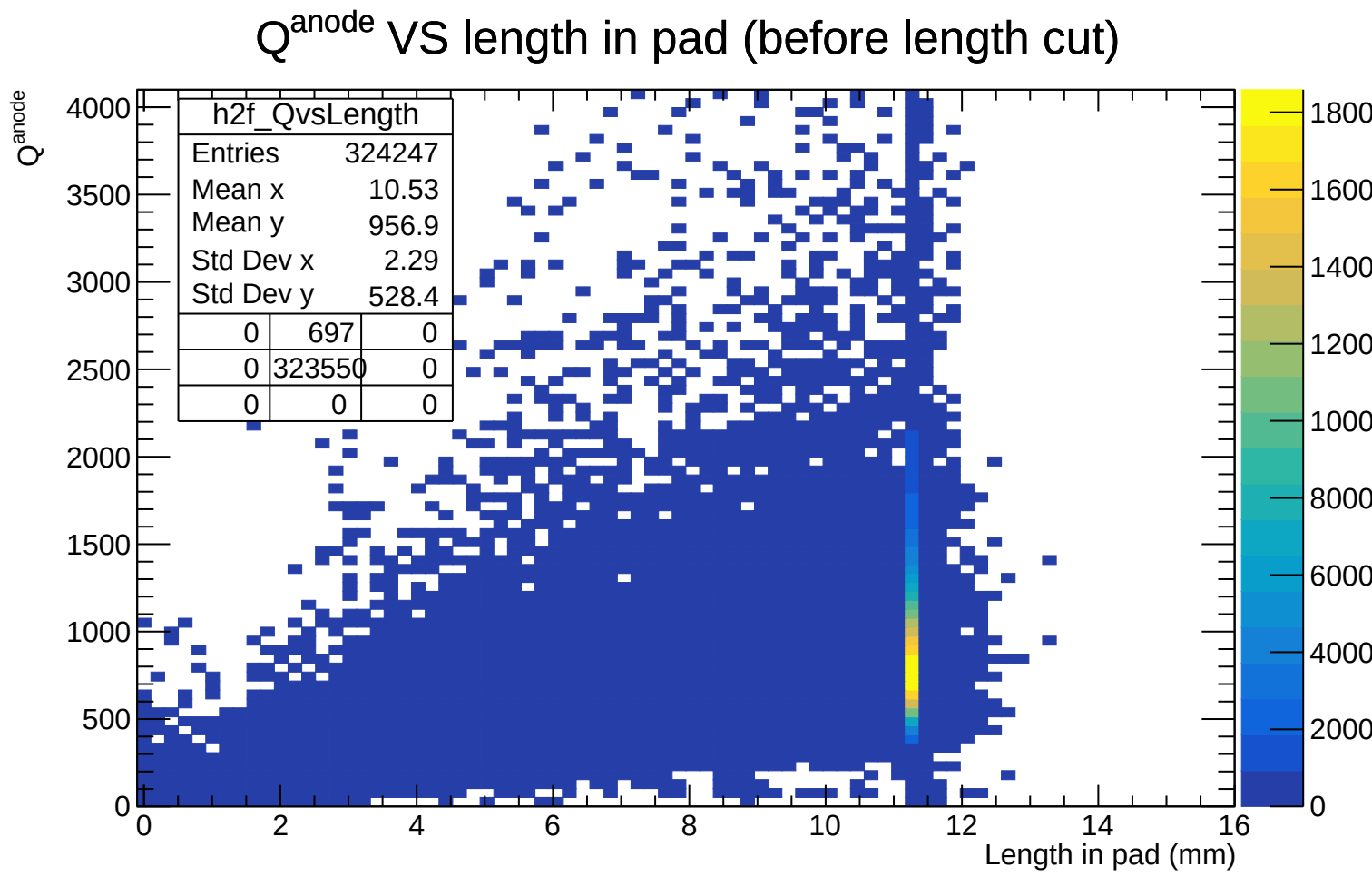

L_{ERAM}*0.7 - Σ $L_{clus>2mm}$
Count
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod1VScl
Entries 8888
Mean 9.097
Std Dev 1.168
Underflow 0
Overflow 5

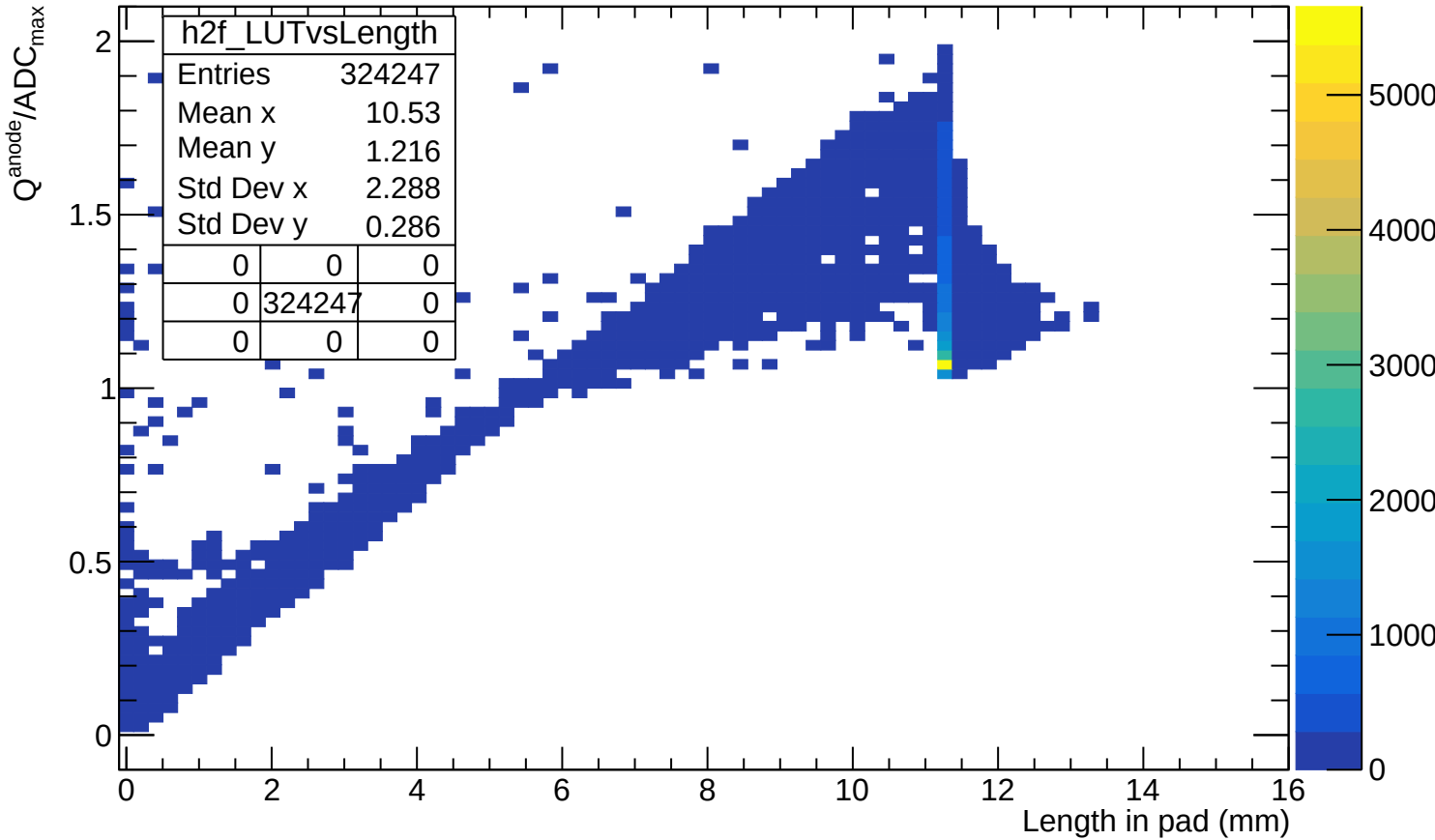

$L_{ERAM}*(N_{trunc\ cross}/N_{clus\ cross>2mm}) - \Sigma\ L_{clus>2mm}$
Count
4500
4000
3500
3000
2500
2000
1500
1000
500
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod2VScl
Entries 8888
Mean 0.08104
Std Dev 1.419
Underflow 0
Overflow 5

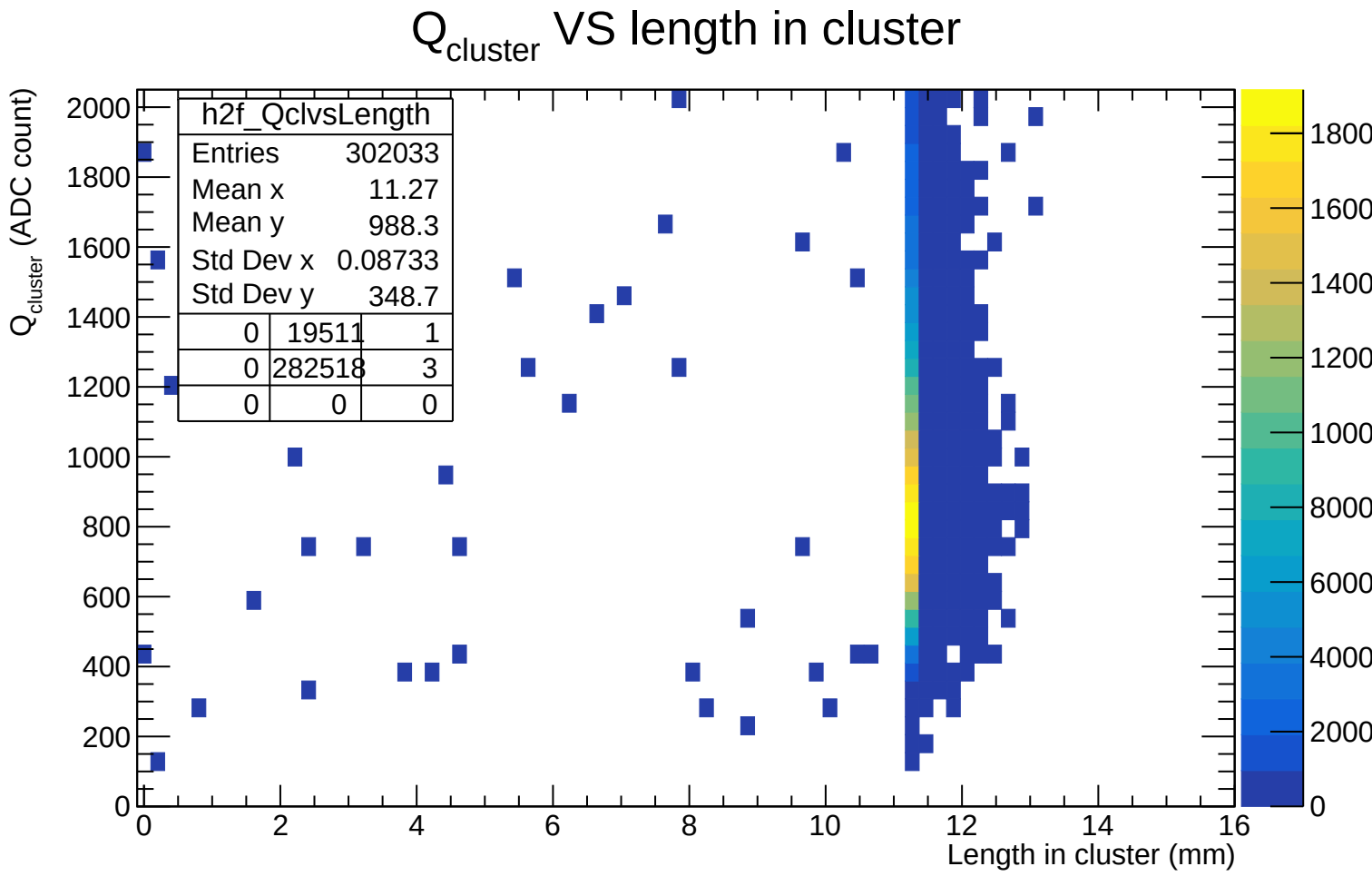

$L_{clusters}$ - $L_{clusters > 2mm}$
Count
4500
4000
3500
3000
2500
2000
1500
1000
500
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_LallVScl
Entries 8888
Mean 0.0003862
Std Dev 0.02066
Underflow 0
Overflow 0

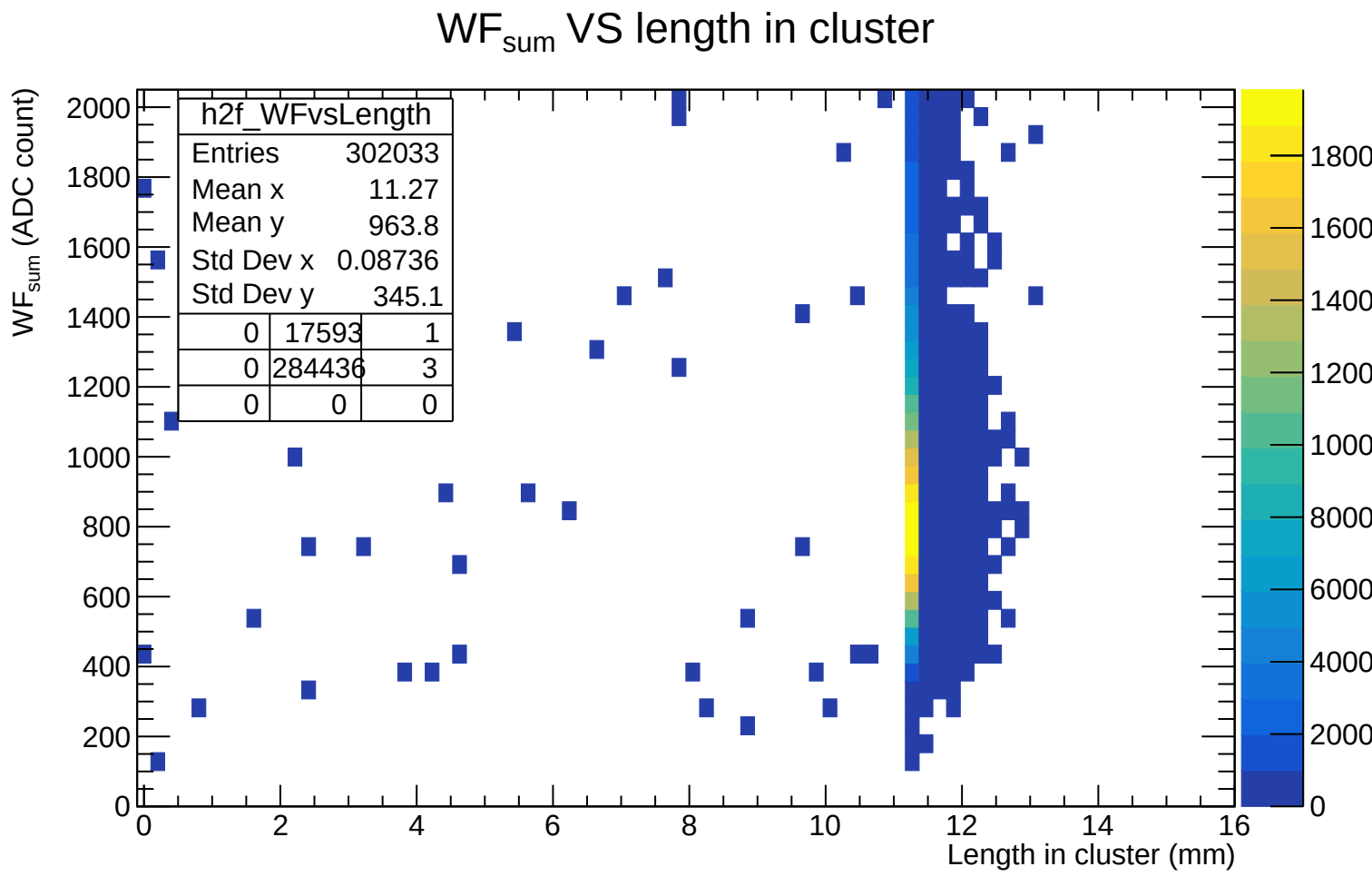

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 316437
Mean x 1.24
Mean y 1.25
Std Dev x 0.2421
Std Dev y 0.2431
0 0 0
0 316437 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
4500 4000 3500 3000 2500 2000 1500 1000 500 0

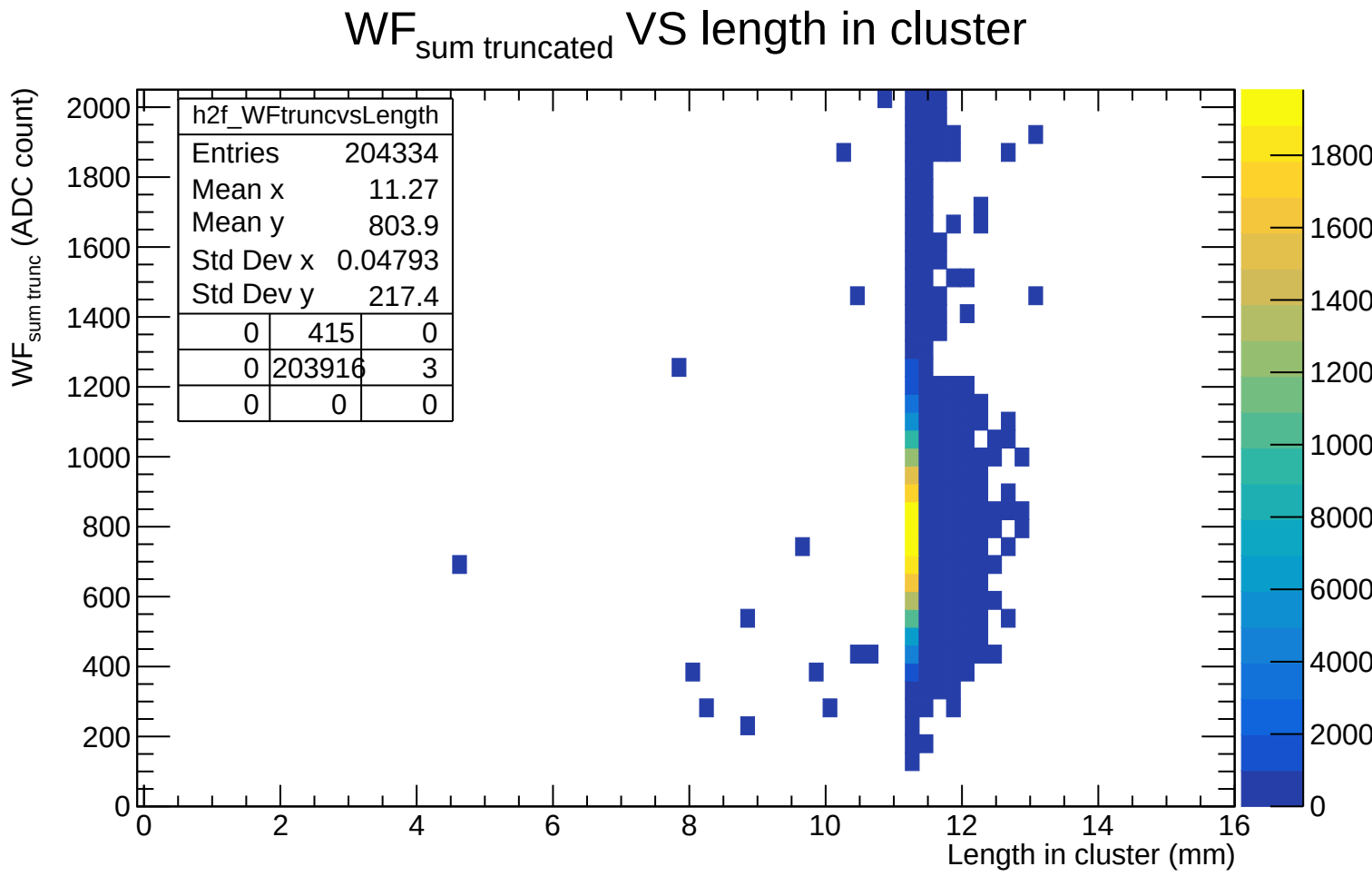

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 324247
Mean x 10.53
Mean y 799
Std Dev x 2.288
Std Dev y 444.8
0 11 0
0 324236 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
2000
1800
1600
1400
1200
1000
8000
6000
4000
2000
0

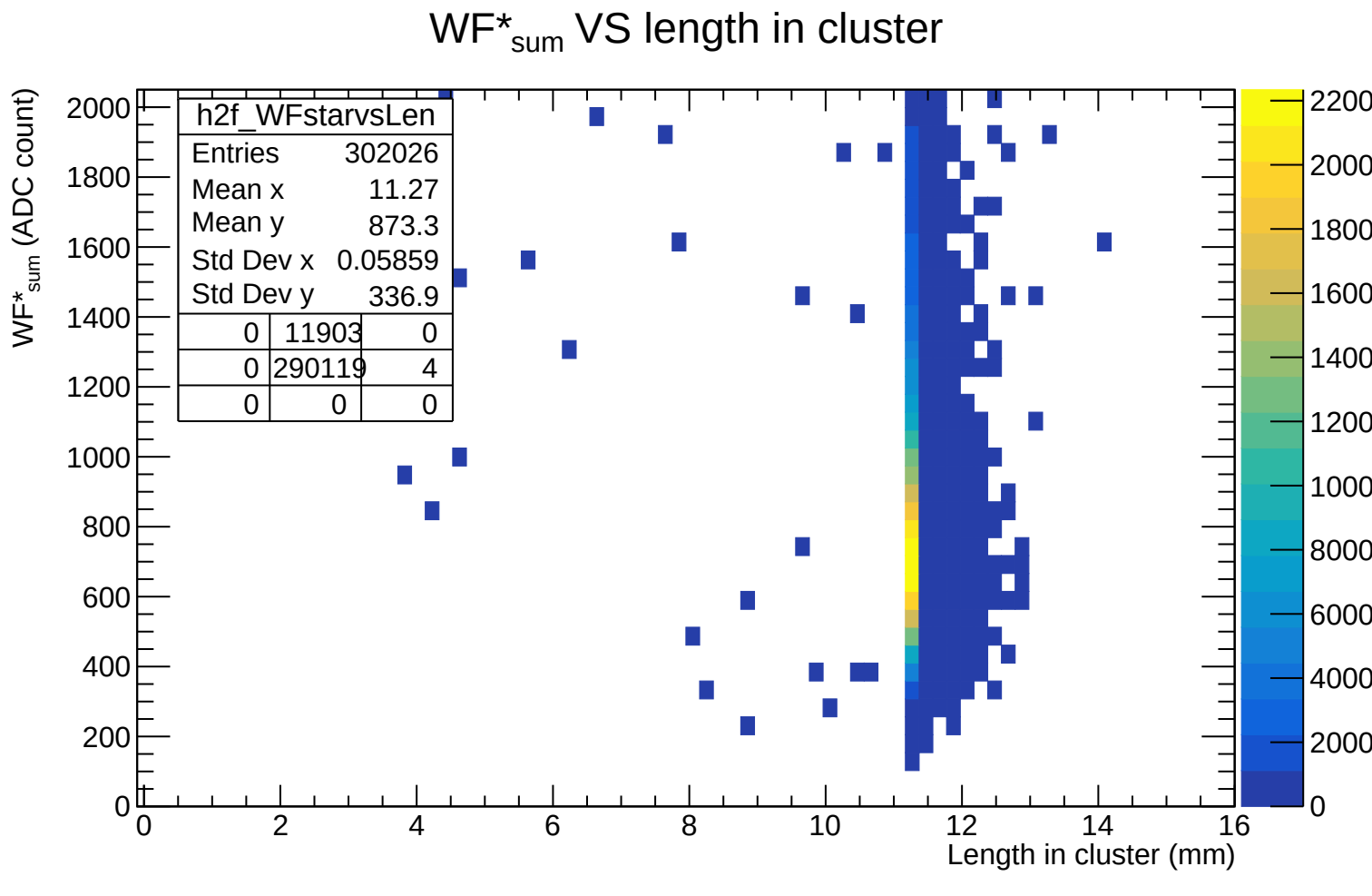

Q^anode VS length in pad (before length cut)
Q^anode
Length in pad (mm)
h2f_QvsLength
Entries 324247
Mean x 10.53
Mean y 956.9
Std Dev x 2.29
Std Dev y 528.4
0 697 0
0 323550 0
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 2000 4000 6000 8000 1000 1200 1400 1600 1800

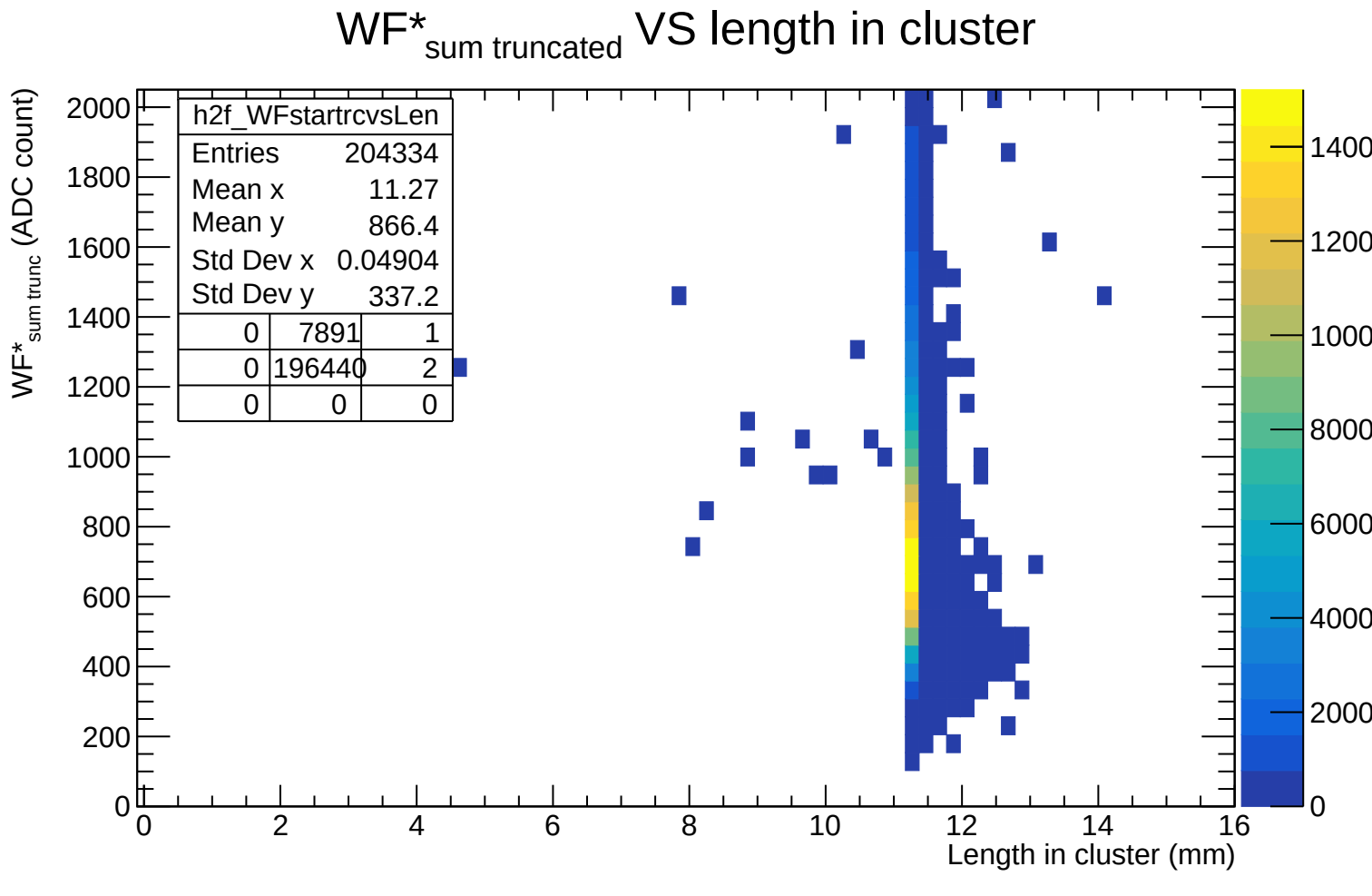

Q^anode/ADC_max VS length in pad (before length cut)
h2f_LUTvsLength
Entries 324247
Mean x 10.53
Mean y 1.216
Std Dev x 2.288
Std Dev y 0.286
0 0 0
0 324247 0
0 0 0
Q^anode/ADC_max
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
1000
2000
3000
4000
5000

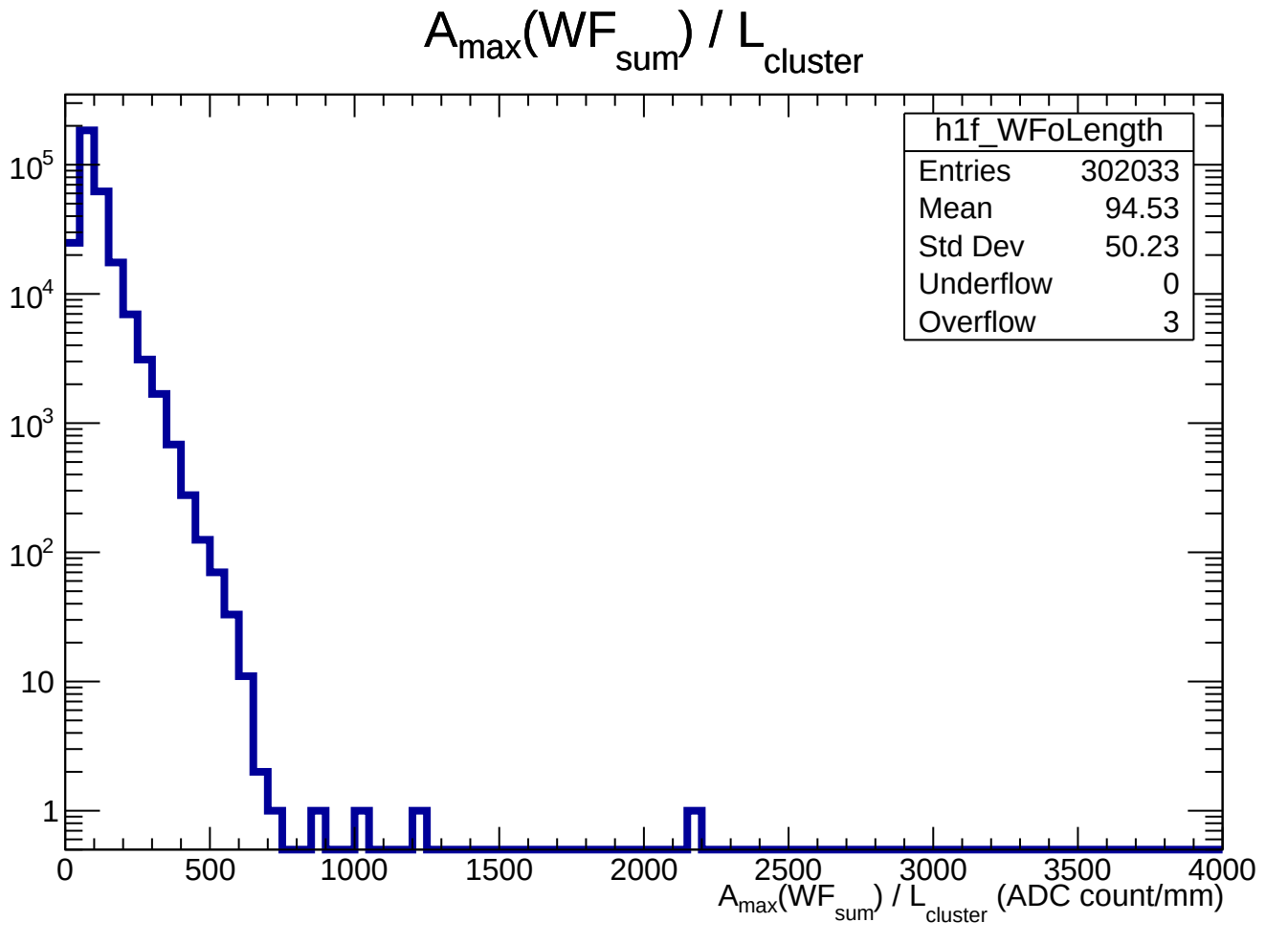

$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 302033
Mean x 11.27
Mean y 988.3
Std Dev x 0.08733
Std Dev y 348.7
0 19511 1
0 282518 3
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2000 4000 6000 8000 1000 1200 1400 1600 1800

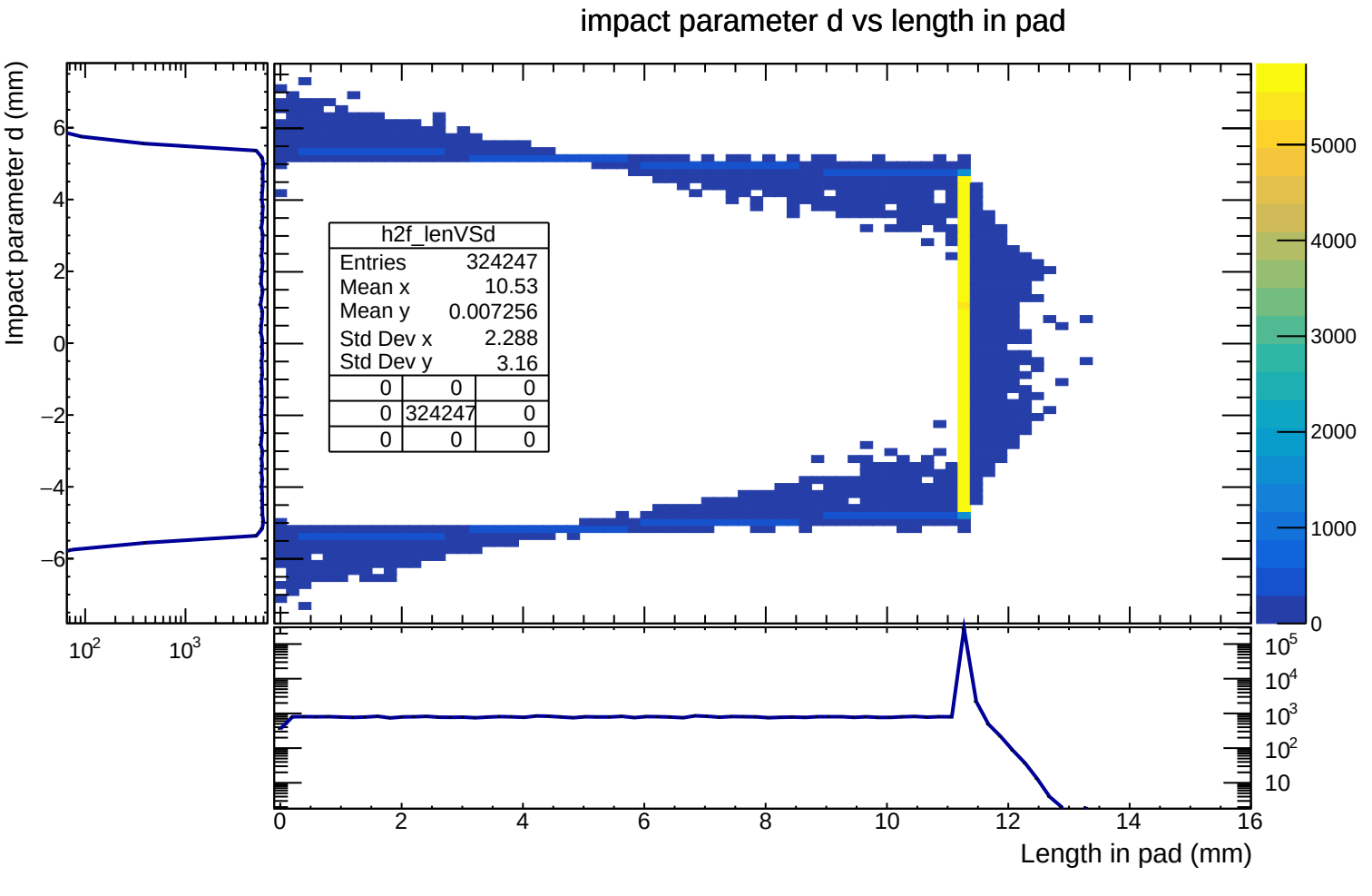

WF_sum VS length in cluster
WF_sum (ADC count)
Length in cluster (mm)
h2f_WFvsLength
Entries 302033
Mean x 11.27
Mean y 963.8
Std Dev x 0.08736
Std Dev y 345.1
0 17593 1
0 284436 3
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 2000 4000 6000 8000 1000 1200 1400 1600 1800


WF sum truncated VS length in cluster
WF sum trunc (ADC count)
Length in cluster (mm)
h2f_WFtruncvsLength
Entries 204334
Mean x 11.27
Mean y 803.9
Std Dev x 0.04793
Std Dev y 217.4
0 415 0
0 203916 3
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 2000 4000 6000 8000 1000 1200 1400 1600 1800


WF*sum VS length in cluster
WF*sum (ADC count)
Length in cluster (mm)
h2f_WFstarvsLen
Entries 302026
Mean x 11.27
Mean y 873.3
Std Dev x 0.05859
Std Dev y 336.9
0 11903 0
0 290119 4
0 0 0
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2000 4000 6000 8000 1000 1200 1400 1600 1800 2000 2200


WF*sum truncated VS length in cluster
h2f_WFstartrcvsLen
Entries 204334
Mean x 11.27
Mean y 866.4
Std Dev x 0.04904
Std Dev y 337.2
0 7891 1
0 196440 2
0 0 0
WF*sum trunc (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
2000
4000
6000
8000
1000
1200
1400


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 302033
Mean 94.53
Std Dev 50.23
Underflow 0
Overflow 3
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 324247
Mean x 10.53
Mean y 0.007256
Std Dev x 2.288
Std Dev y 3.16
0 0 0
0 324247 0
0 0 0