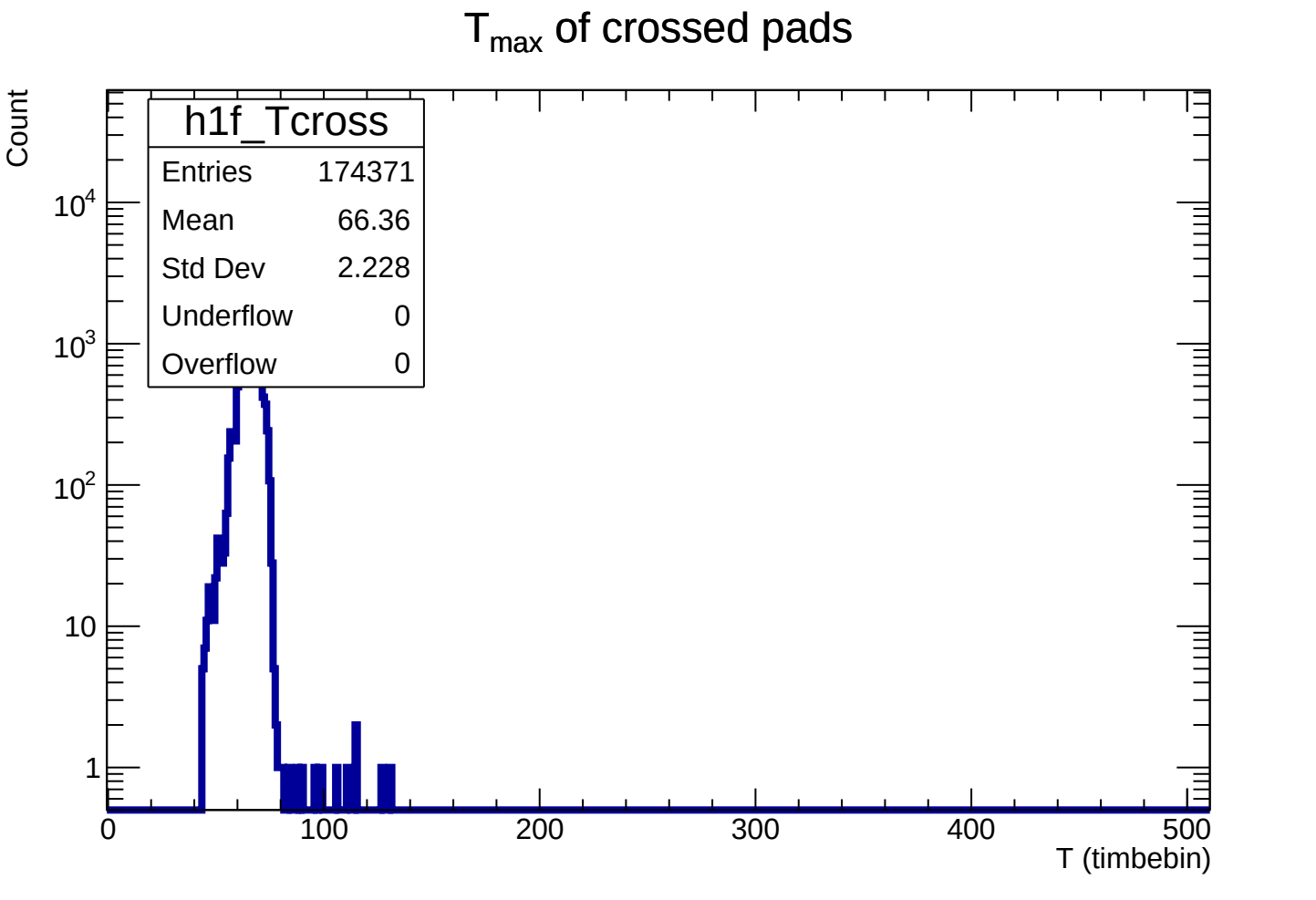
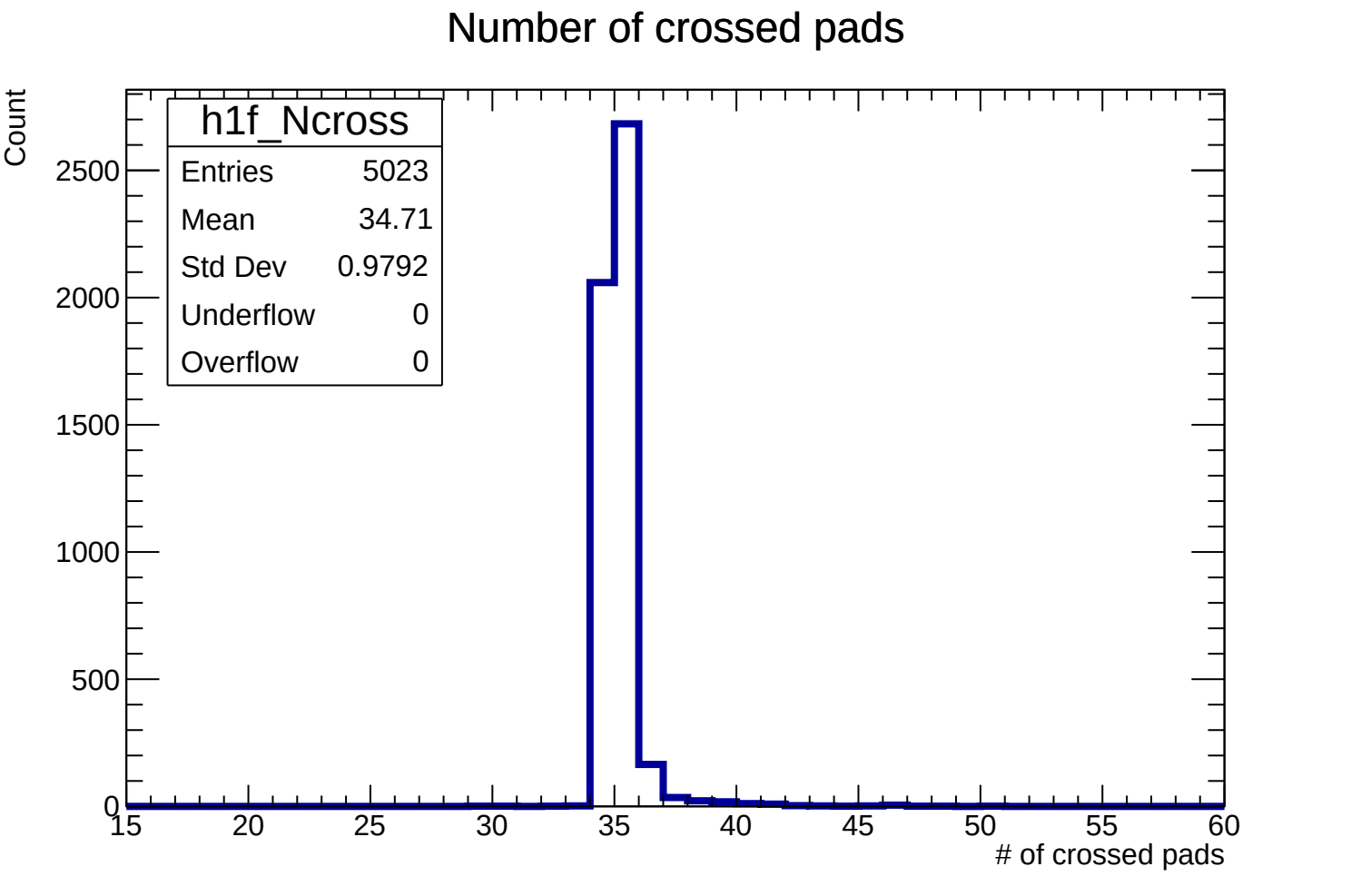
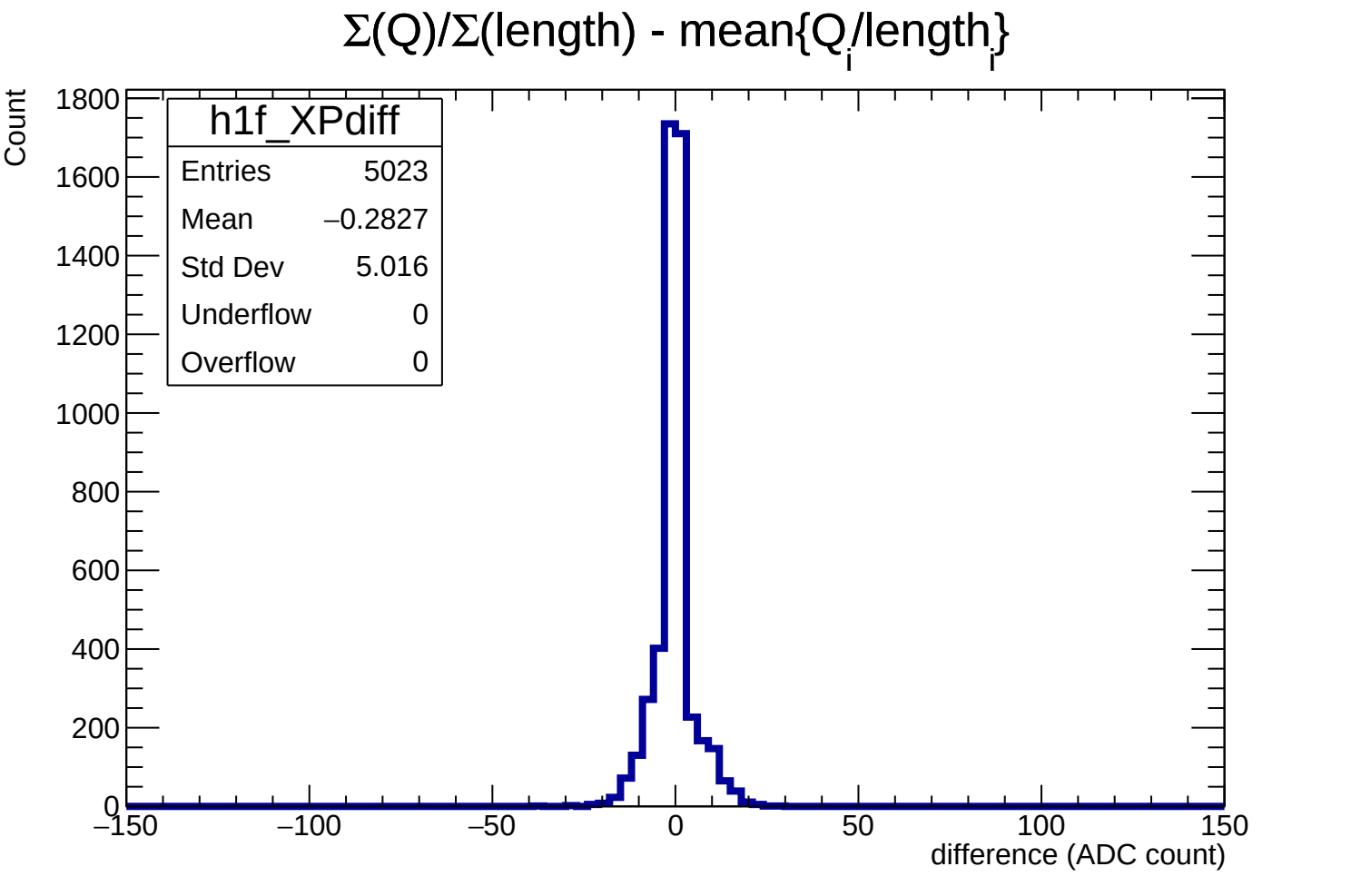
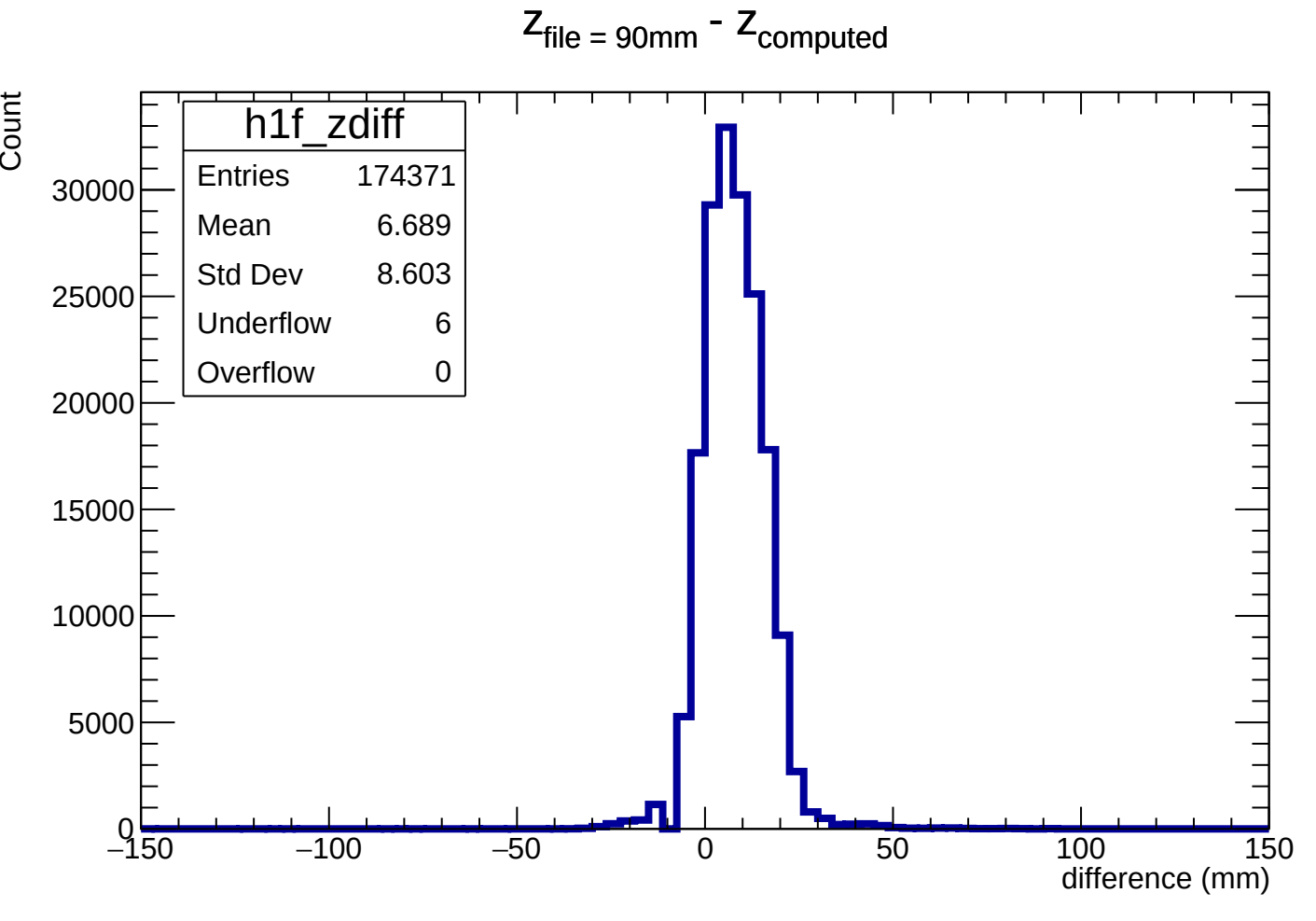
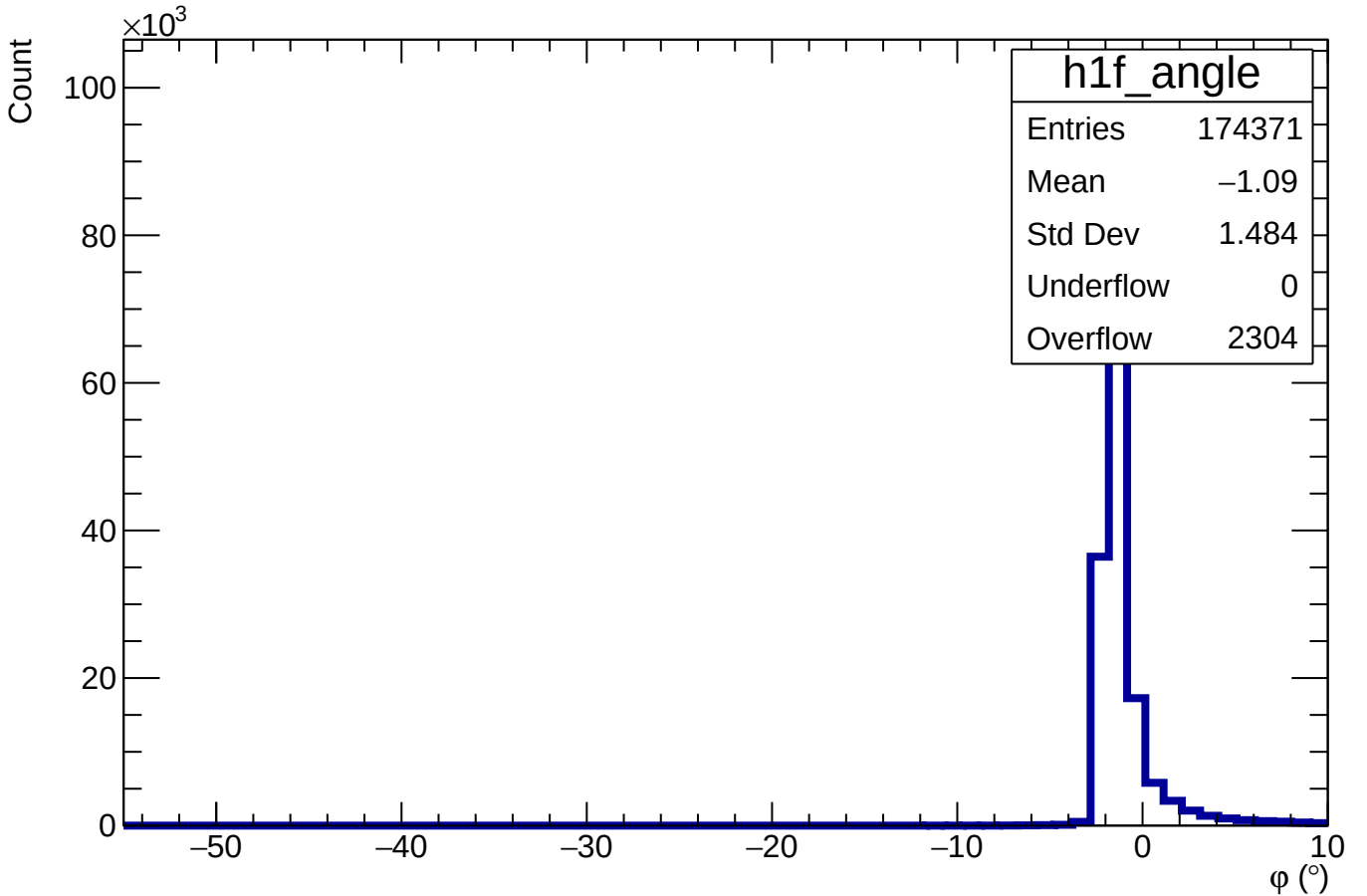
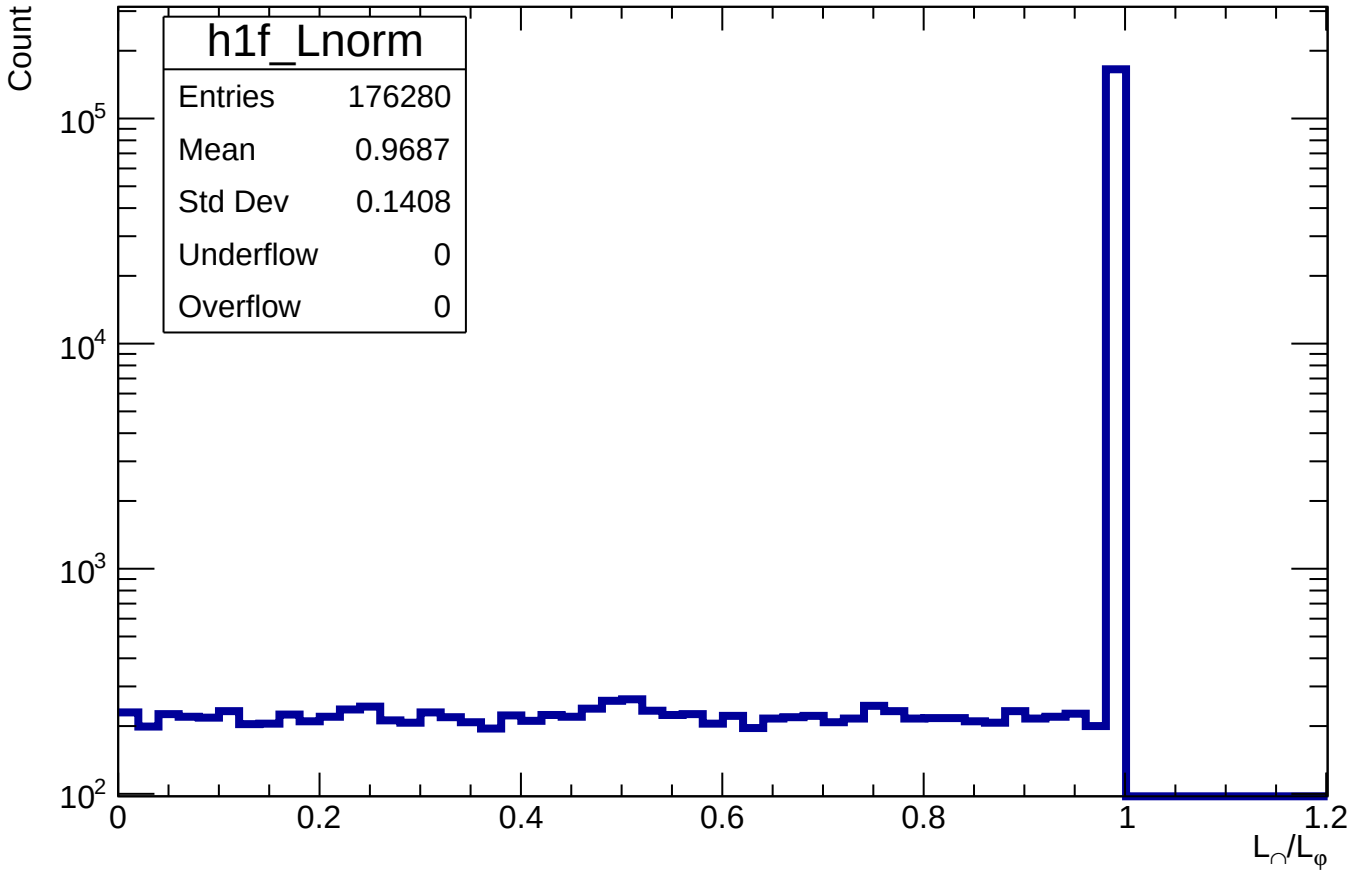

T_{max} of crossed pads
h1f_Tcross
Entries 174371
Mean 66.36
Std Dev 2.228
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

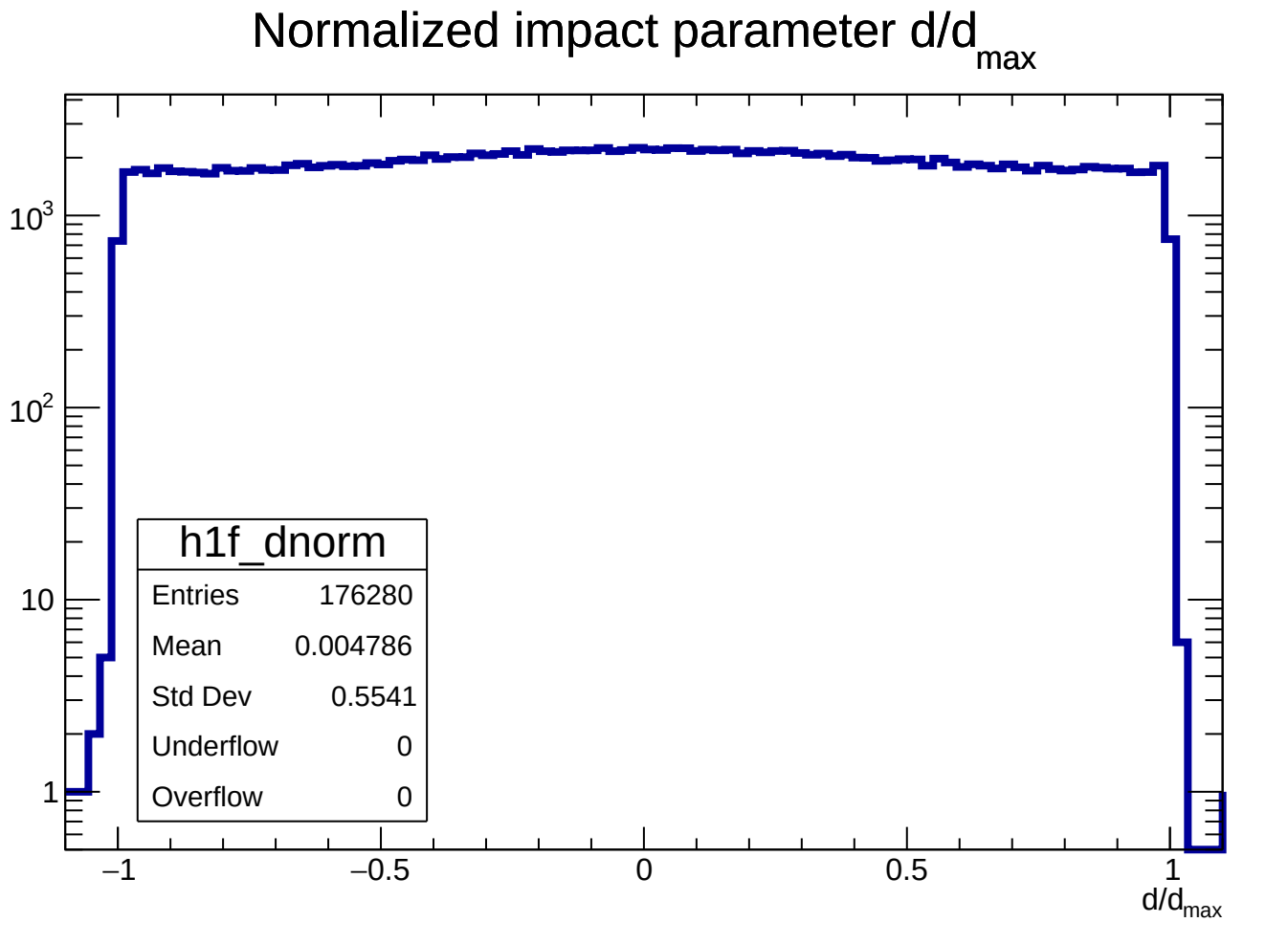

Number of crossed pads
h1f_Ncross
Entries 5023
Mean 34.71
Std Dev 0.9792
Underflow 0
Overflow 0
Count
2500
2000
1500
1000
500
0
15
20
25
30
35
40
45
50
55
60
# of crossed pads

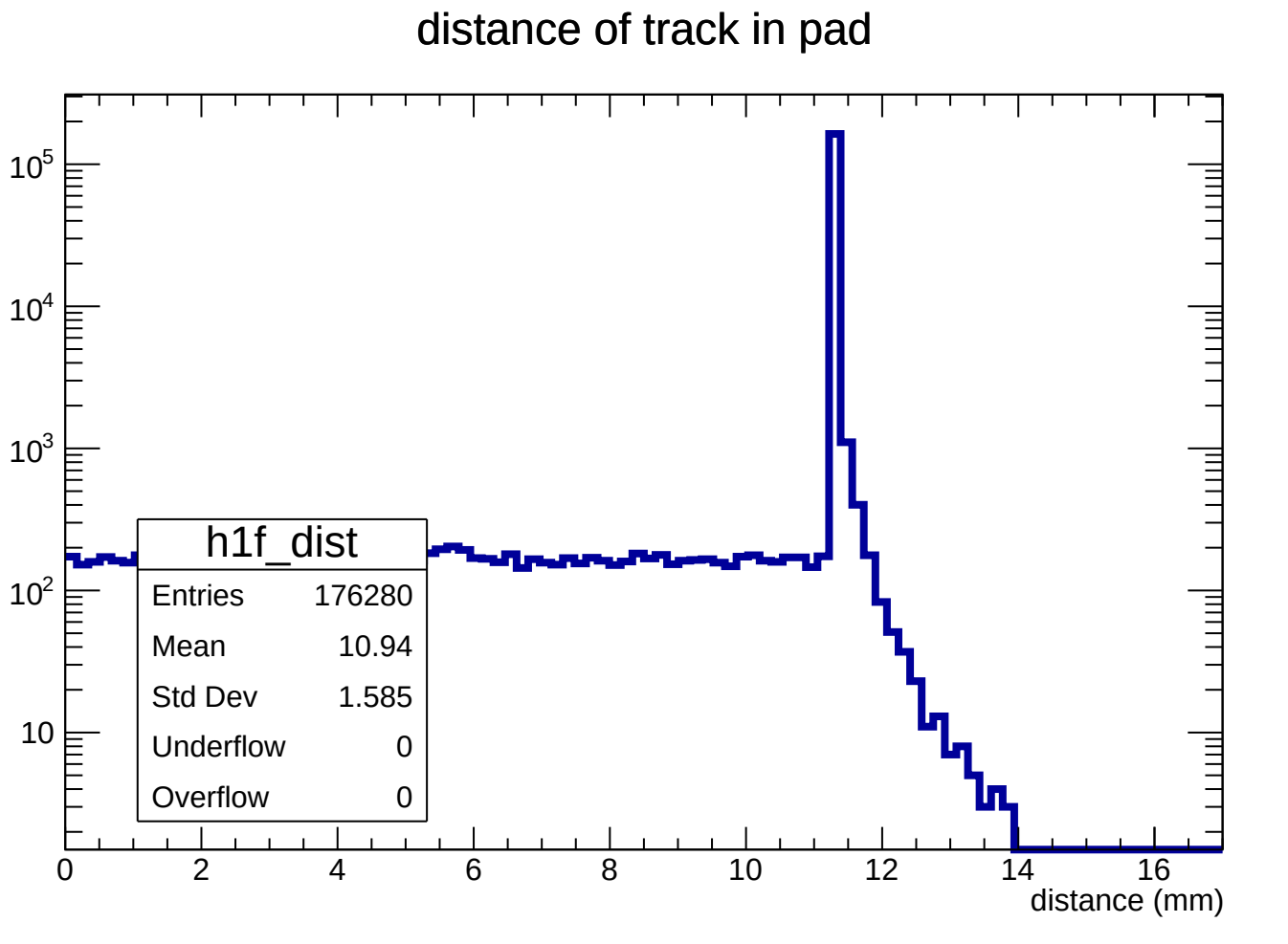

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 5023
Mean −0.2827
Std Dev 5.016
Underflow 0
Overflow 0
Count
1800
1600
1400
1200
1000
800
600
400
200
0
−150
−100
−50
0
50
100
150
difference (ADC count)

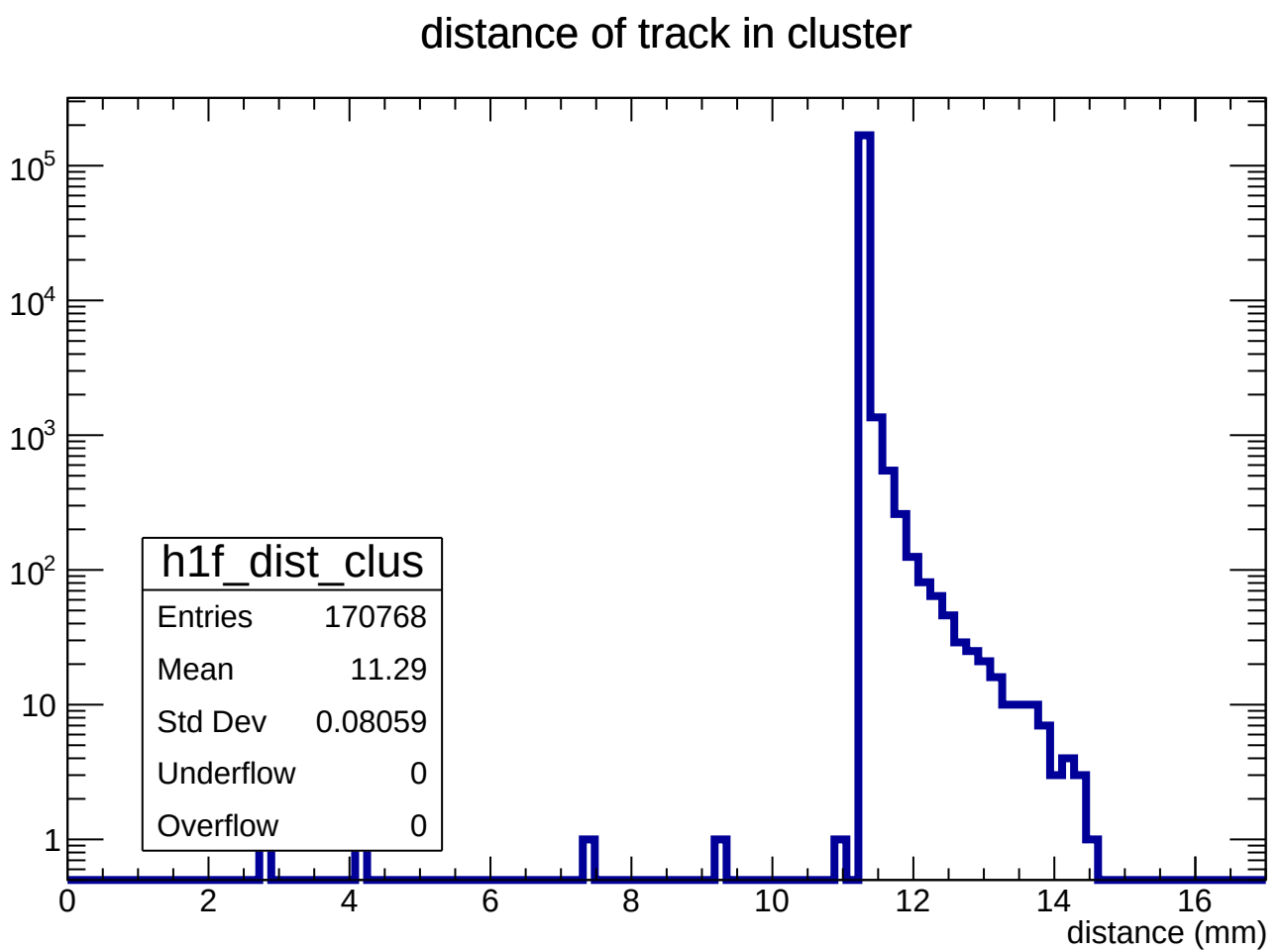

$z_{file = 90mm} - z_{computed}$
h1f_zdiff
Entries 174371
Mean 6.689
Std Dev 8.603
Underflow 6
Overflow 0
Count
30000
25000
20000
15000
10000
5000
0
–150
–100
–50
0
50
100
150
difference (mm)

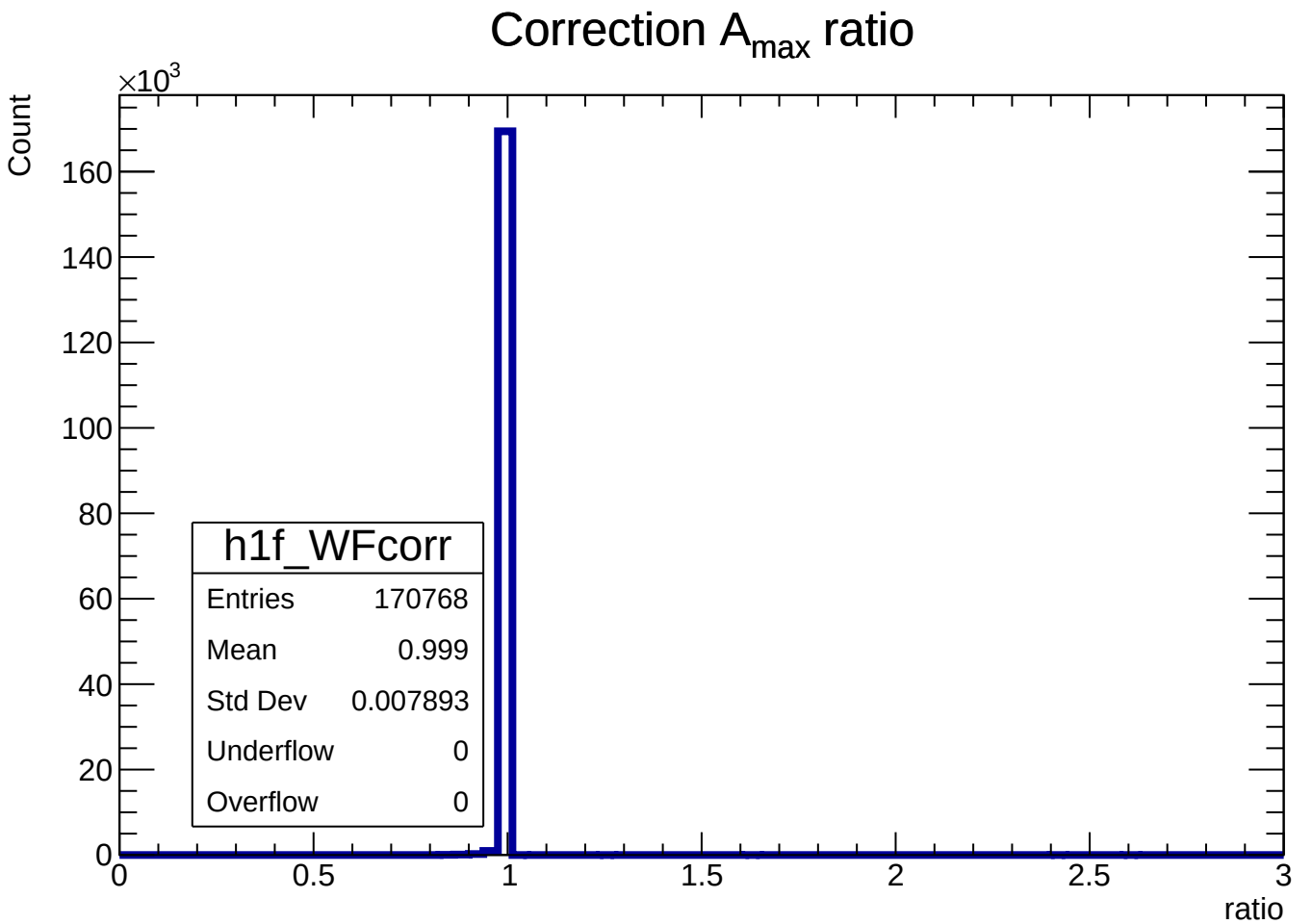

Angle φ in each pad
Count
×10^3
100
80
60
40
20
0
h1f_angle
Entries 174371
Mean −1.09
Std Dev 1.484
Underflow 0
Overflow 2304
−50
−40
−30
−20
−10
0
10
φ (°)

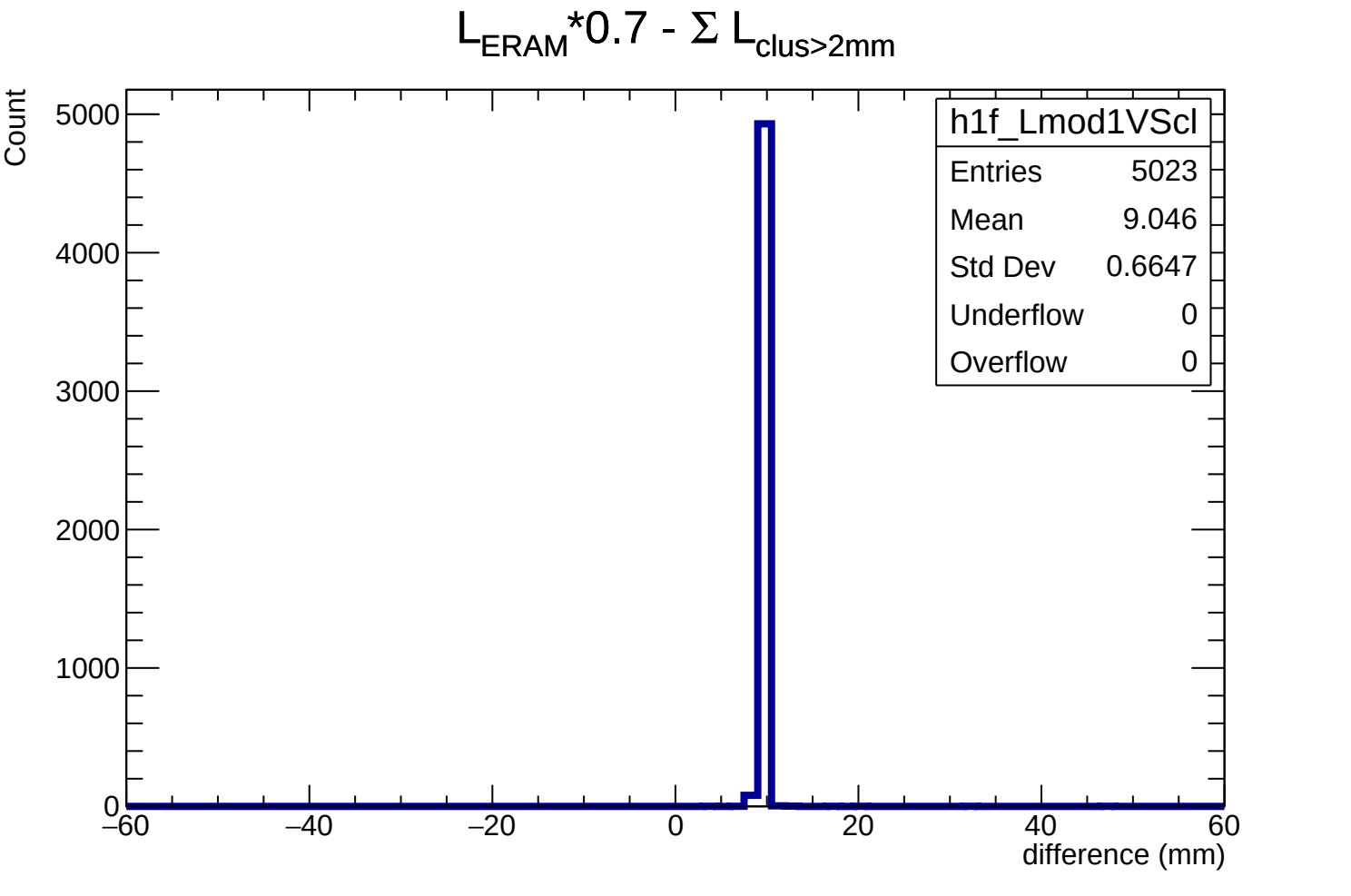

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 176280
Mean 0.9687
Std Dev 0.1408
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
10^2
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

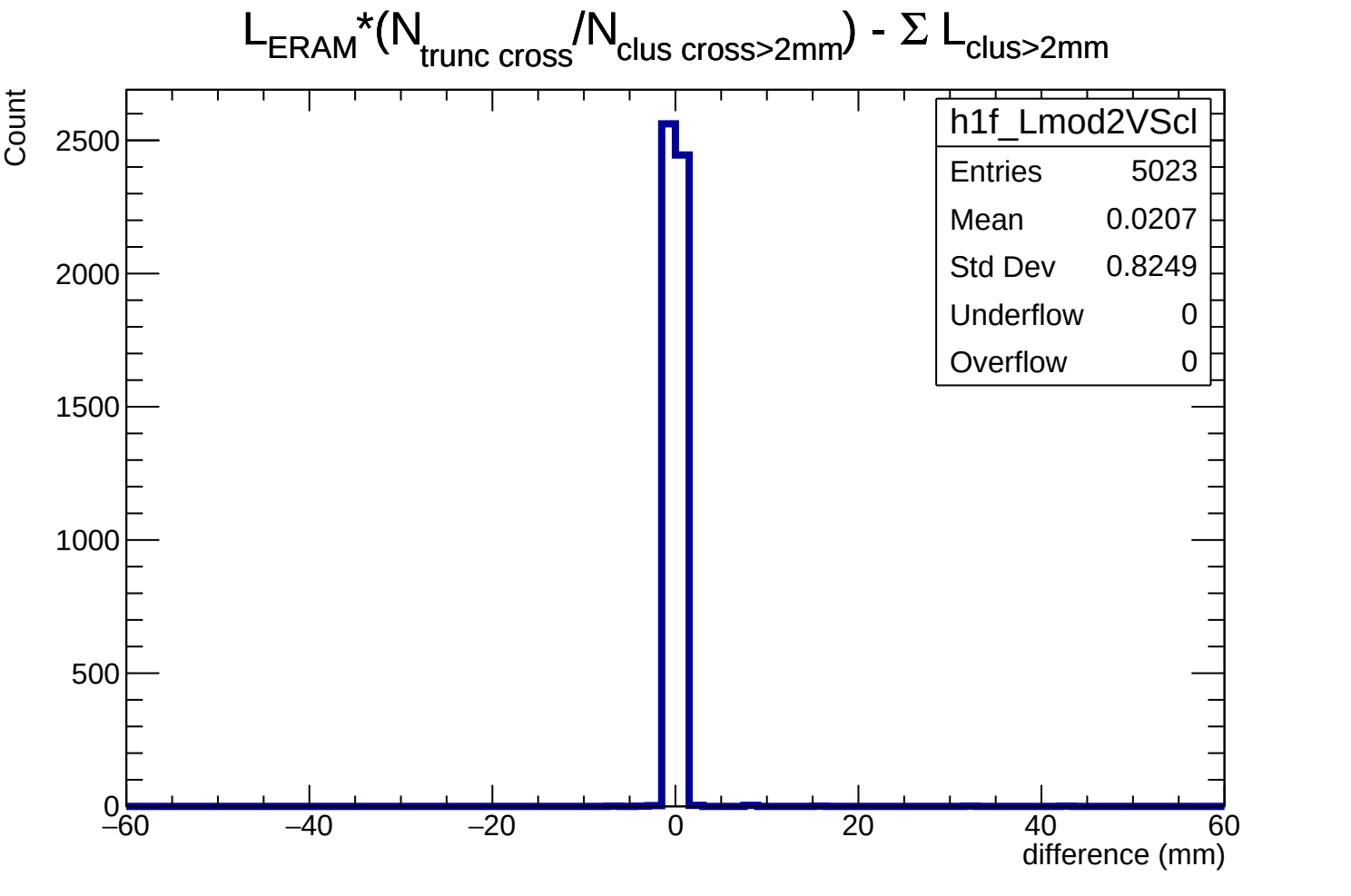

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 176280
Mean 0.004786
Std Dev 0.5541
Underflow 0
Overflow 0
–1
–0.5
0
0.5
1
d/d max

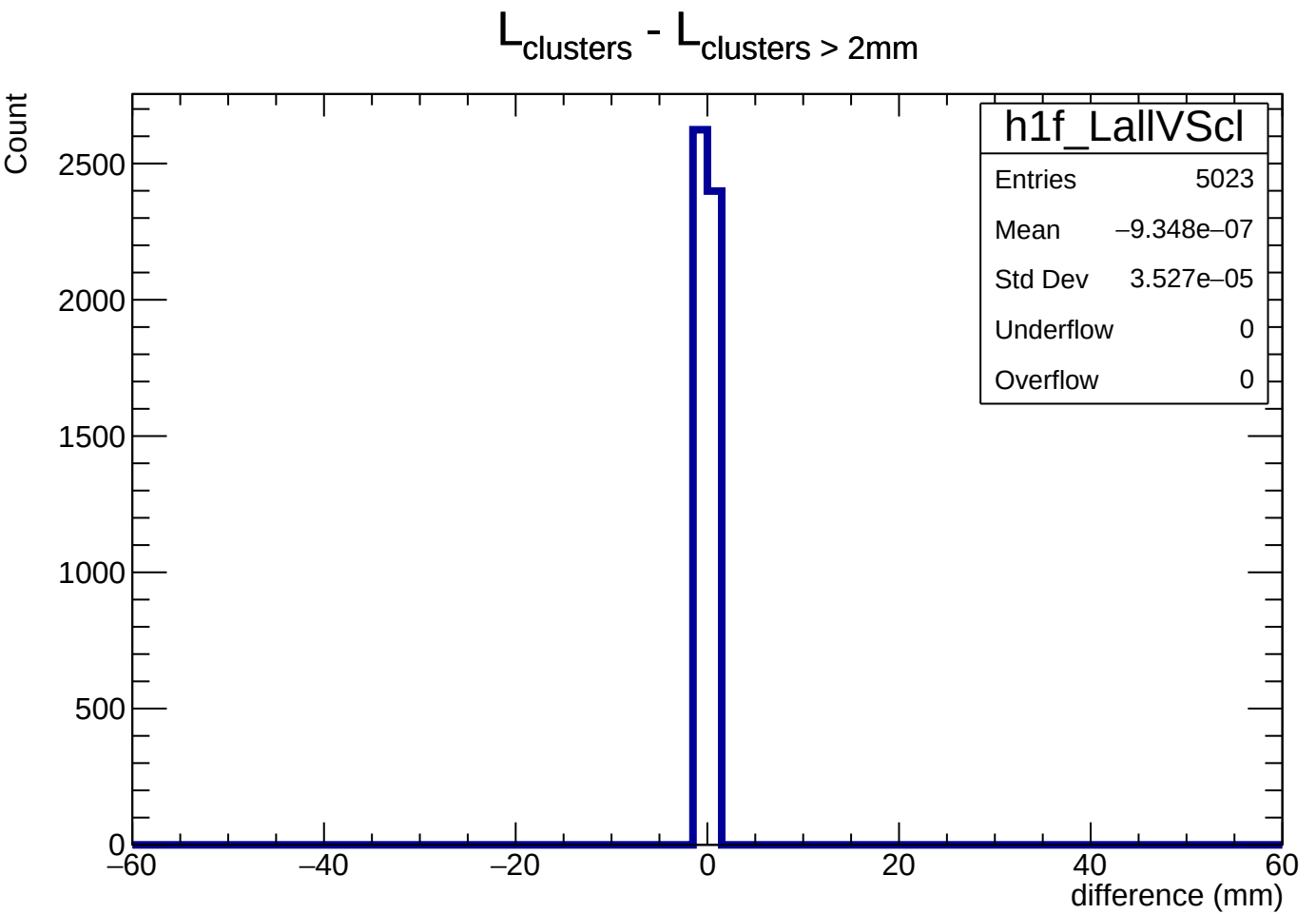

distance of track in pad
h1f_dist
Entries 176280
Mean 10.94
Std Dev 1.585
Underflow 0
Overflow 0
distance (mm)

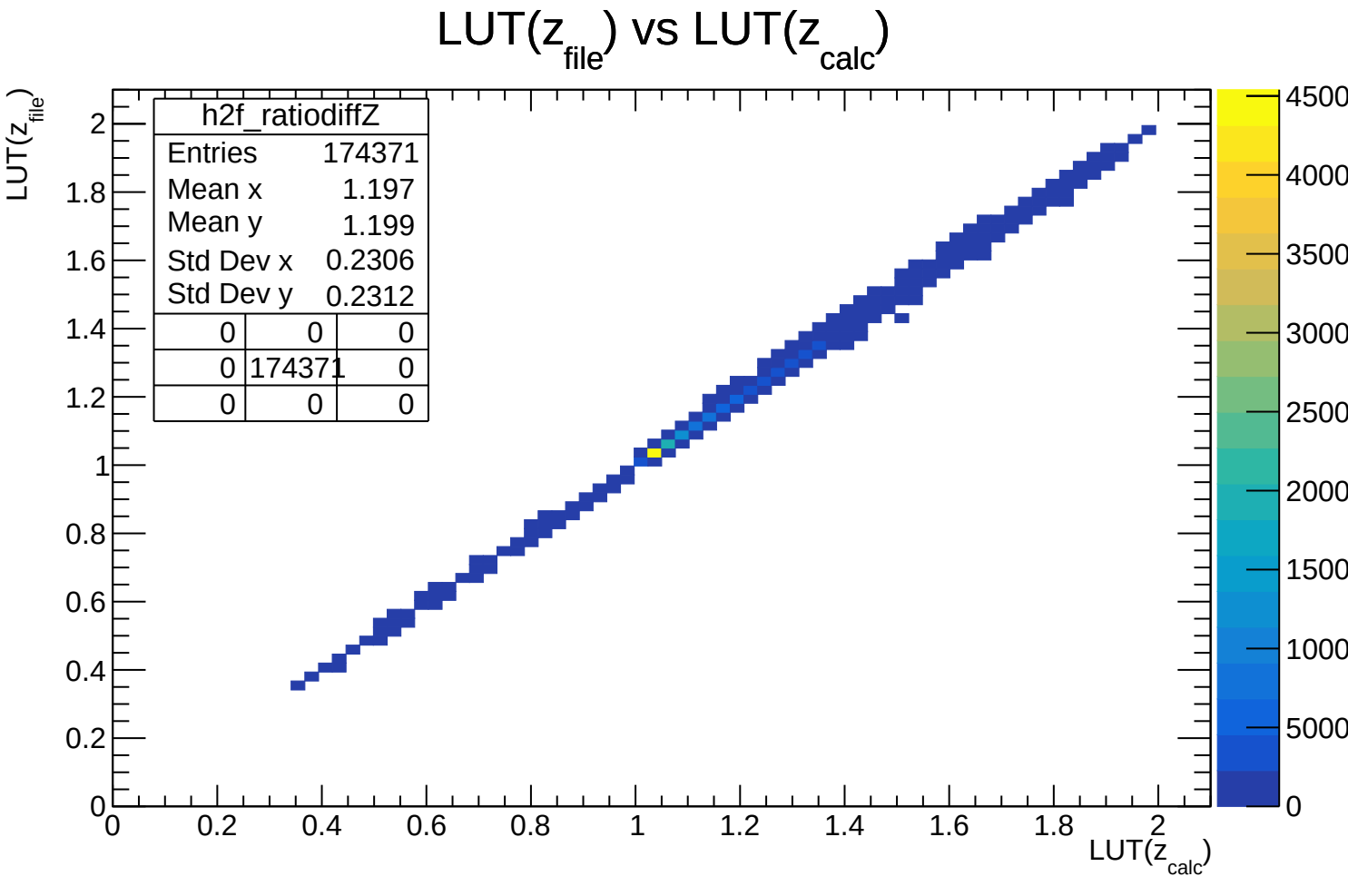

distance of track in cluster
h1f_dist_clus
Entries 170768
Mean 11.29
Std Dev 0.08059
Underflow 0
Overflow 0
distance (mm)

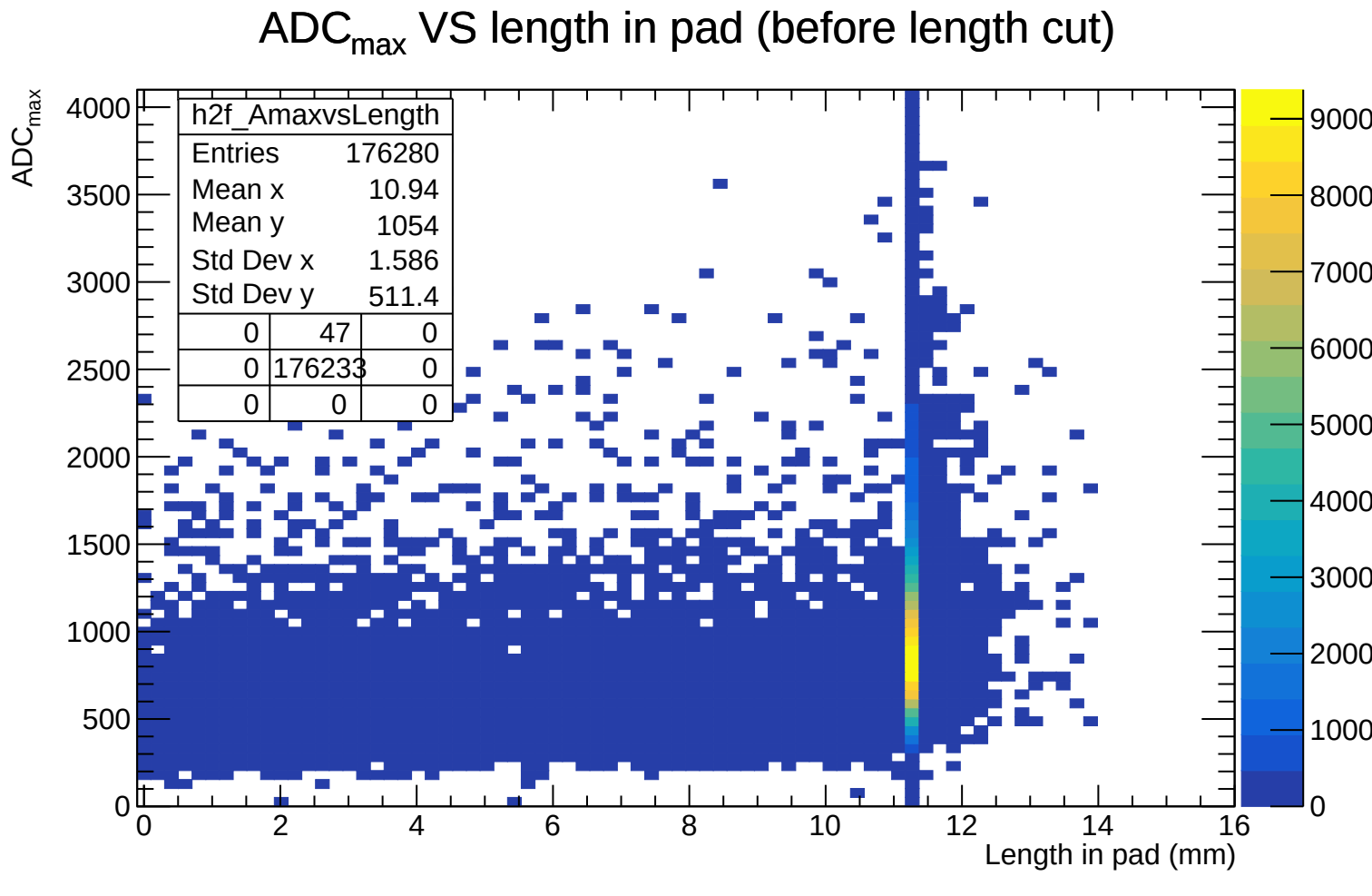

Correction A_{max} ratio
$\times 10^3$
Count
160
140
120
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 170768
Mean 0.999
Std Dev 0.007893
Underflow 0
Overflow 0

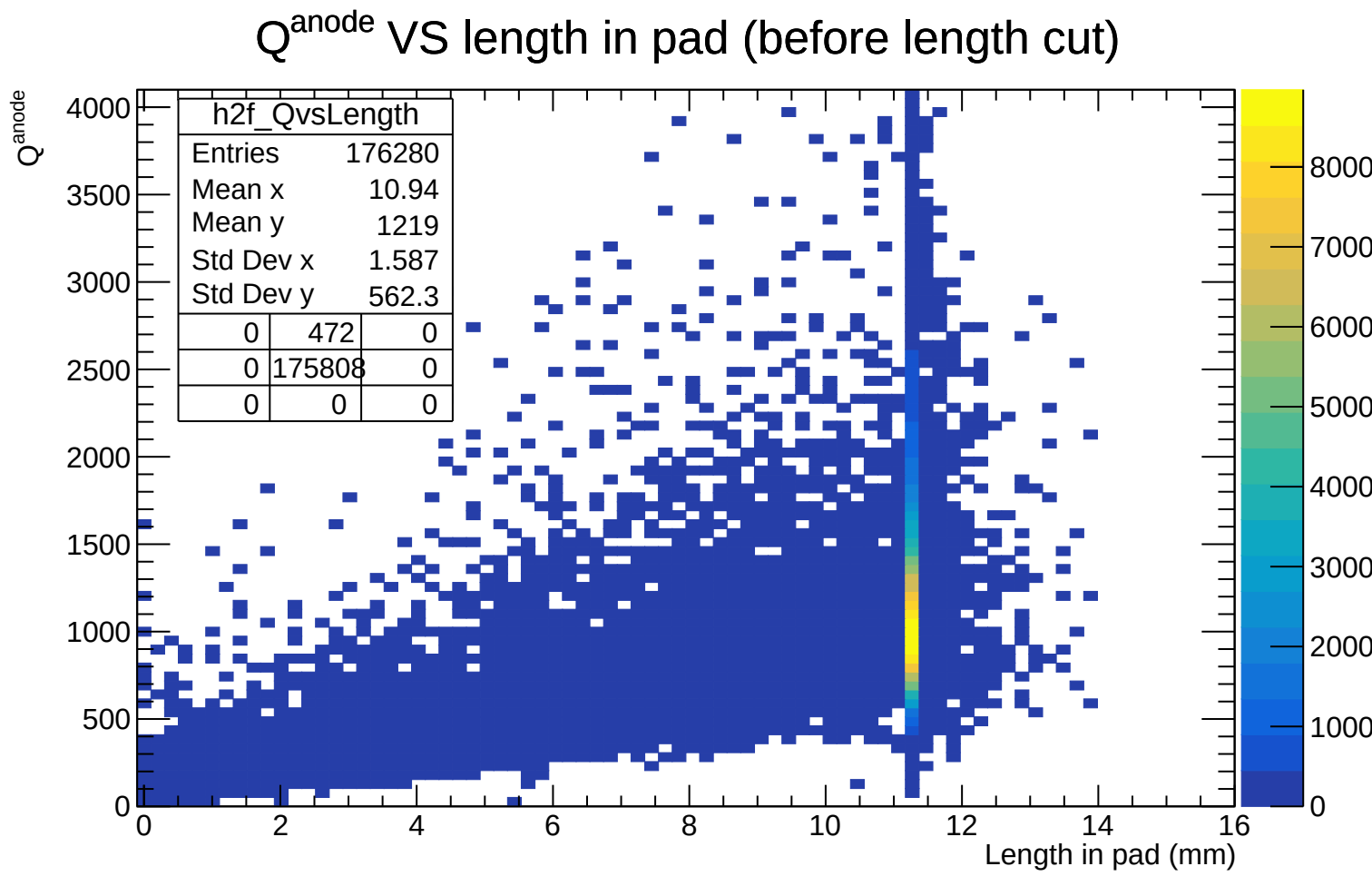

L_{ERAM}*0.7 - Σ $L_{clus>2mm}$
Count
5000
4000
3000
2000
1000
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod1VScl
Entries 5023
Mean 9.046
Std Dev 0.6647
Underflow 0
Overflow 0

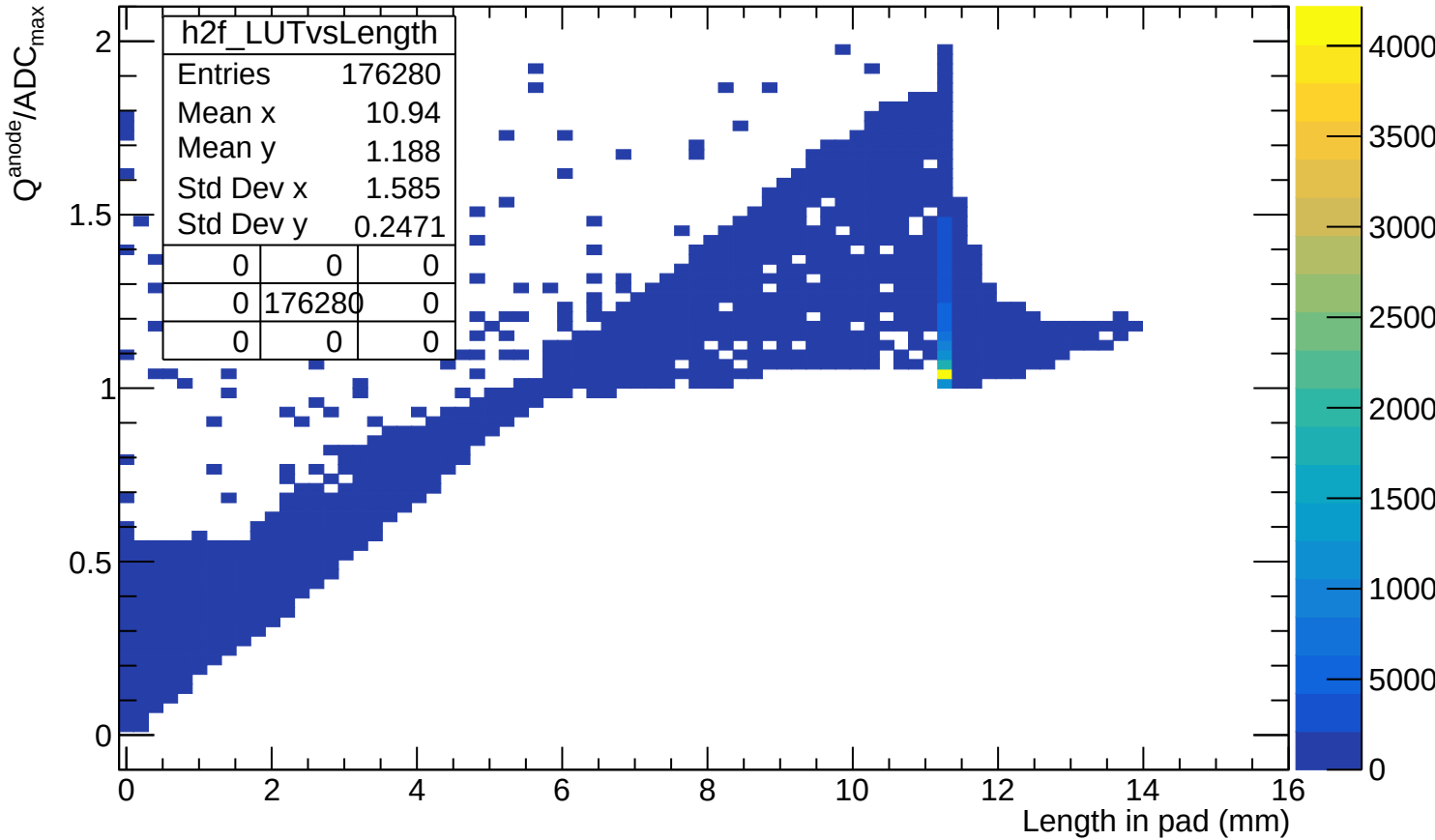

$L_{ERAM}*(N_{trunc\ cross}/N_{clus\ cross>2mm}) - \Sigma\ L_{clus>2mm}$
Count
2500
2000
1500
1000
500
0
−60
−40
−20
0
20
40
60
difference (mm)
h1f_Lmod2VScl
Entries 5023
Mean 0.0207
Std Dev 0.8249
Underflow 0
Overflow 0

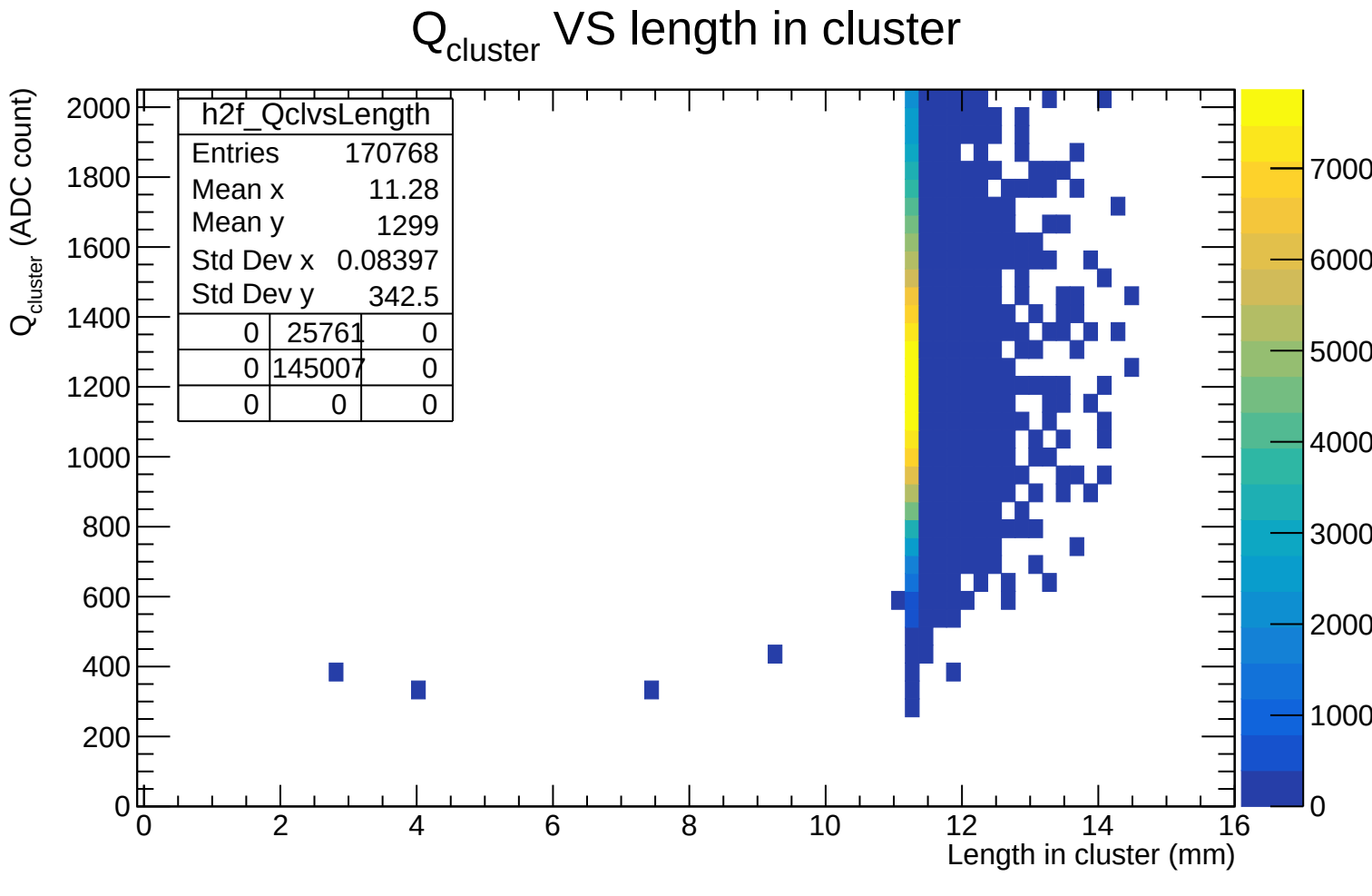

L clusters - L clusters > 2mm
Count
2500
2000
1500
1000
500
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_LallVScl
Entries 5023
Mean –9.348e–07
Std Dev 3.527e–05
Underflow 0
Overflow 0

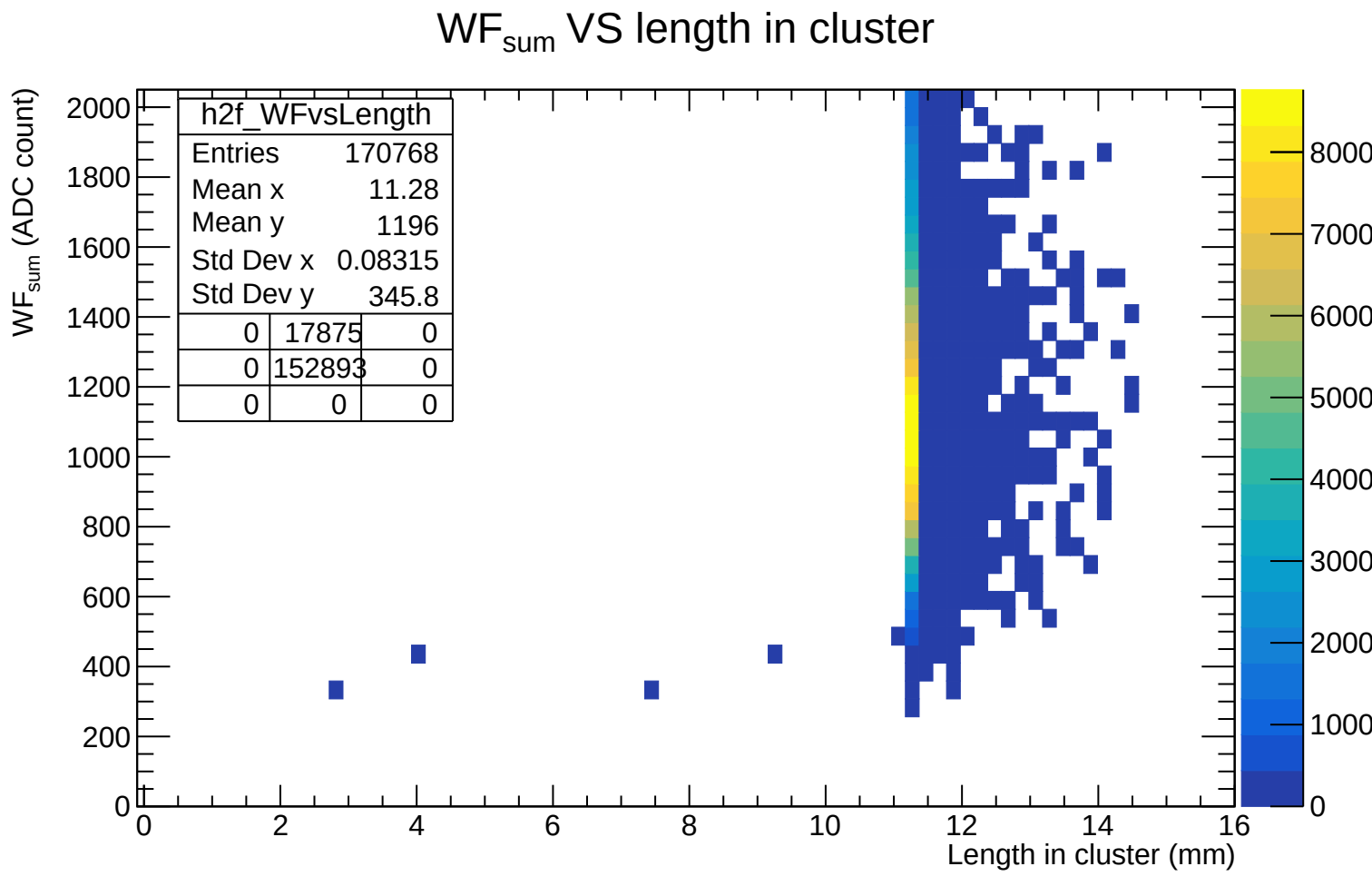

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 174371
Mean x 1.197
Mean y 1.199
Std Dev x 0.2306
Std Dev y 0.2312
0 0 0
0 174371 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5000 1000 1500 2000 2500 3000 3500 4000 4500

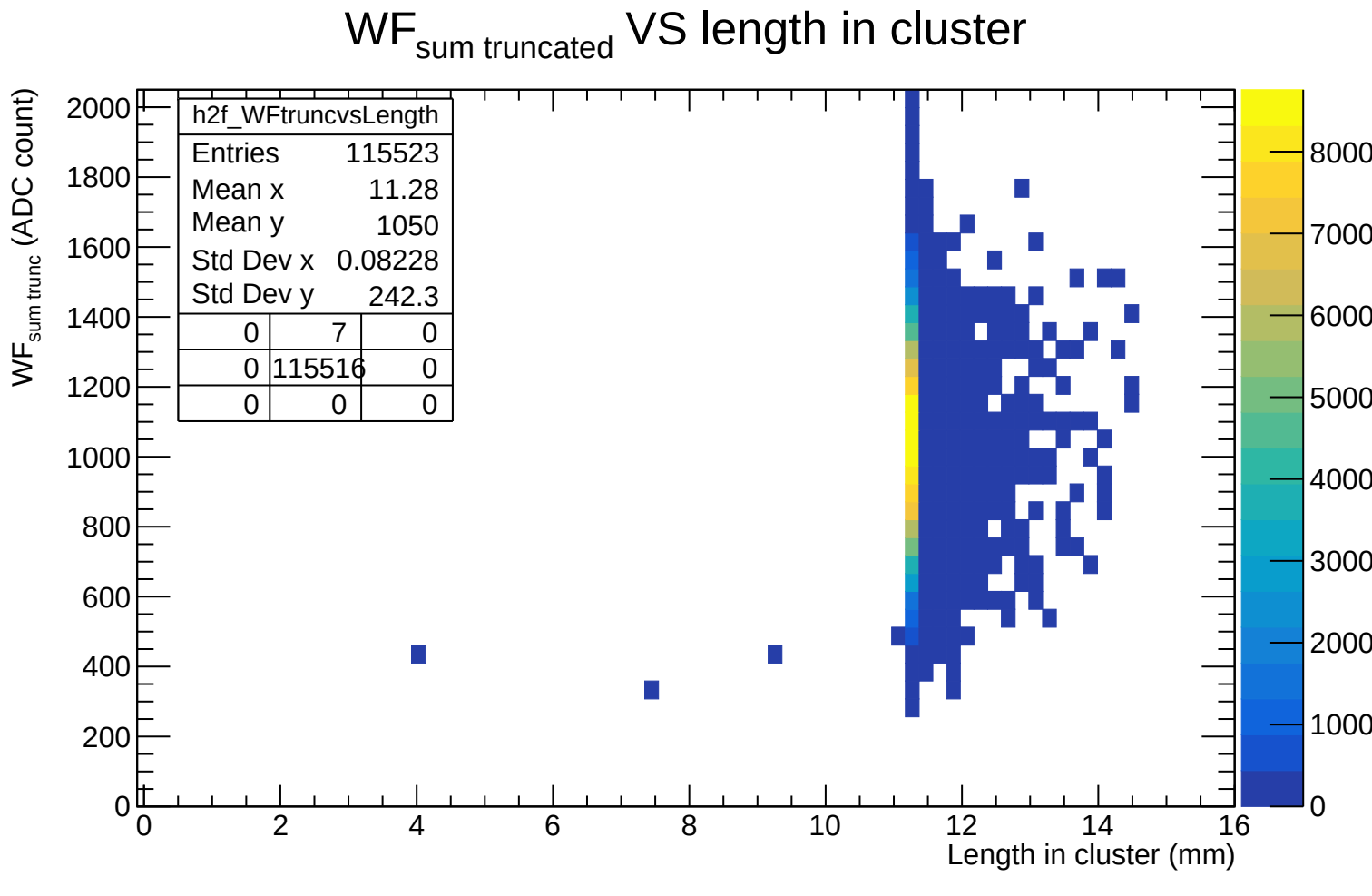

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 176280
Mean x 10.94
Mean y 1054
Std Dev x 1.586
Std Dev y 511.4
0 47 0
0 176233 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 1000 2000 3000 4000 5000 6000 7000 8000 9000

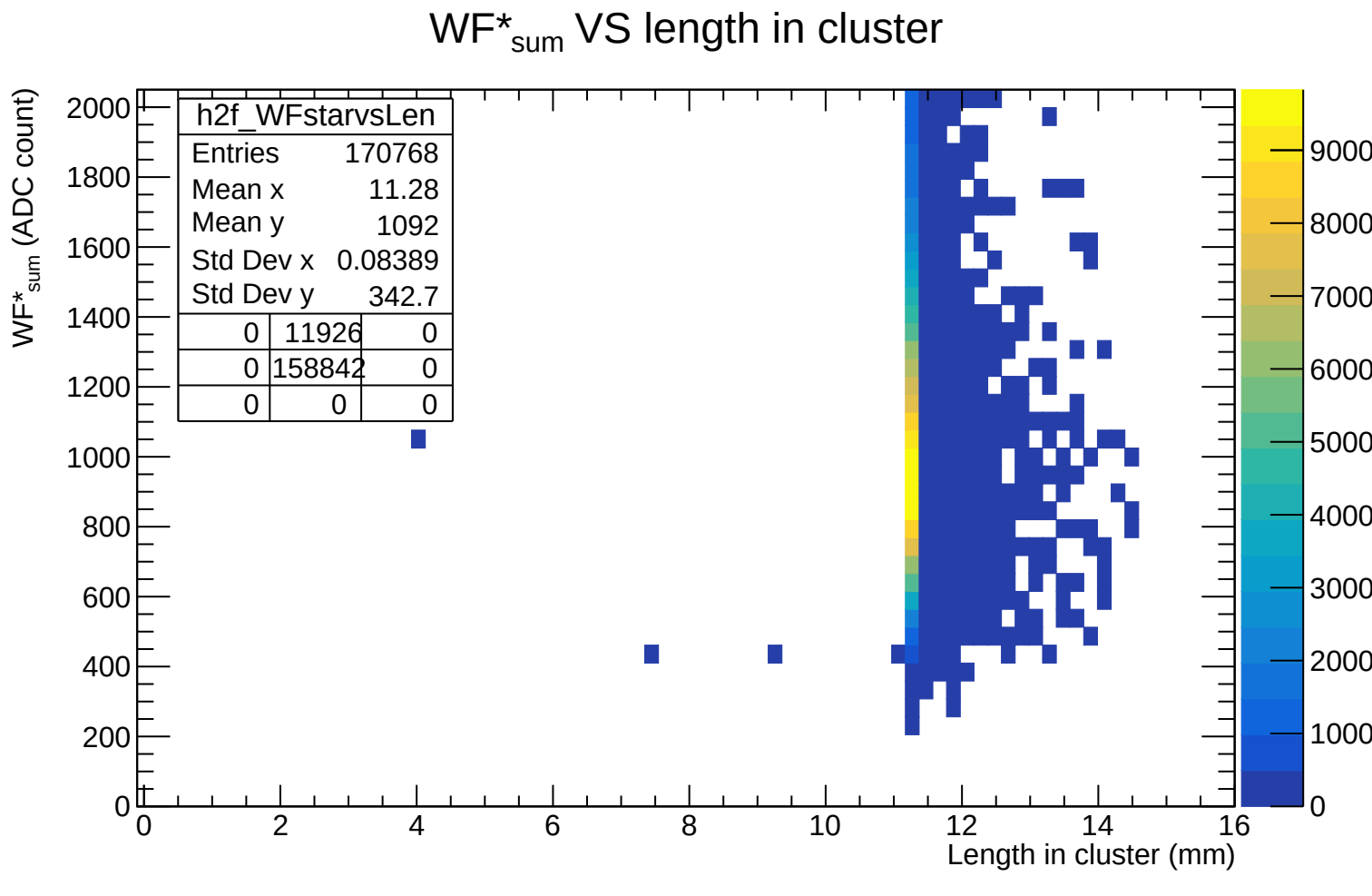

Q^anode VS length in pad (before length cut)
h2f_QvsLength
Entries 176280
Mean x 10.94
Mean y 1219
Std Dev x 1.587
Std Dev y 562.3
0 472 0
0 175808 0
0 0 0
Q^anode
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
1000
2000
3000
4000
5000
6000
7000
8000

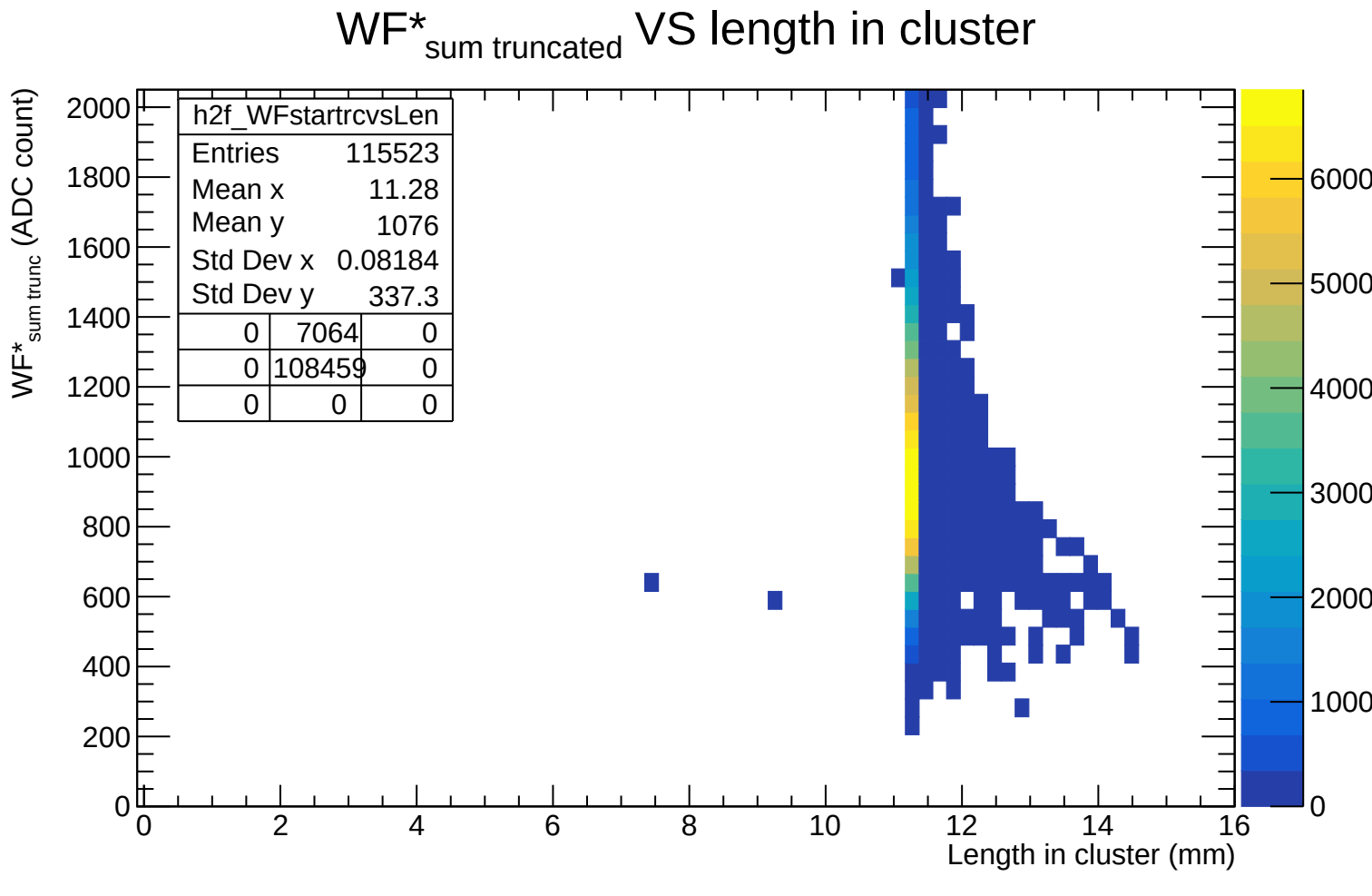

Q^anode/ADC_max VS length in pad (before length cut)
h2f_LUTvsLength
Entries 176280
Mean x 10.94
Mean y 1.188
Std Dev x 1.585
Std Dev y 0.2471
0 0 0
0 176280 0
0 0 0
Q^anode/ADC_max
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
500
1000
1500
2000
2500
3000
3500
4000

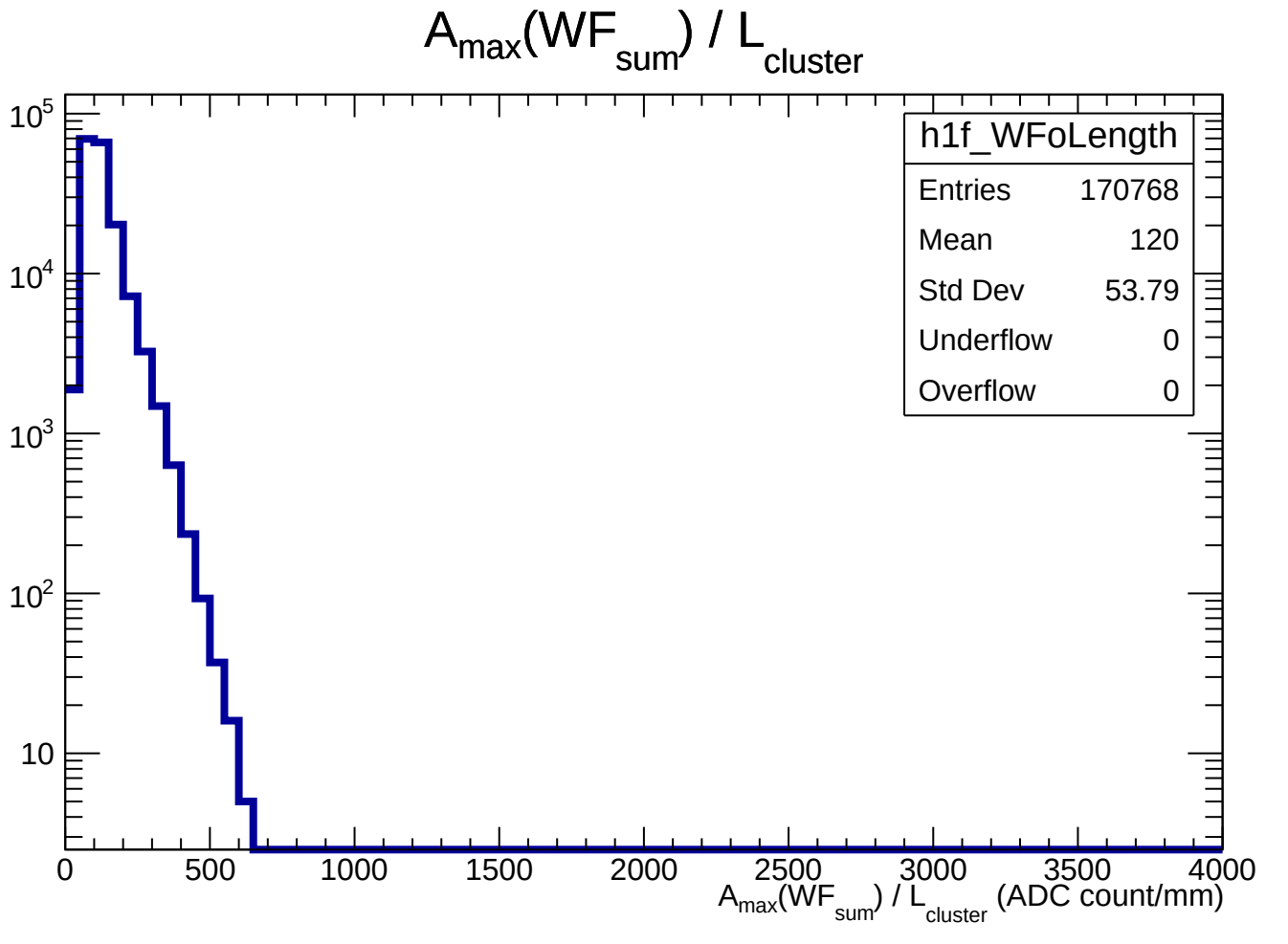

$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 170768
Mean x 11.28
Mean y 1299
Std Dev x 0.08397
Std Dev y 342.5
0 25761 0
0 145007 0
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 1000 2000 3000 4000 5000 6000 7000

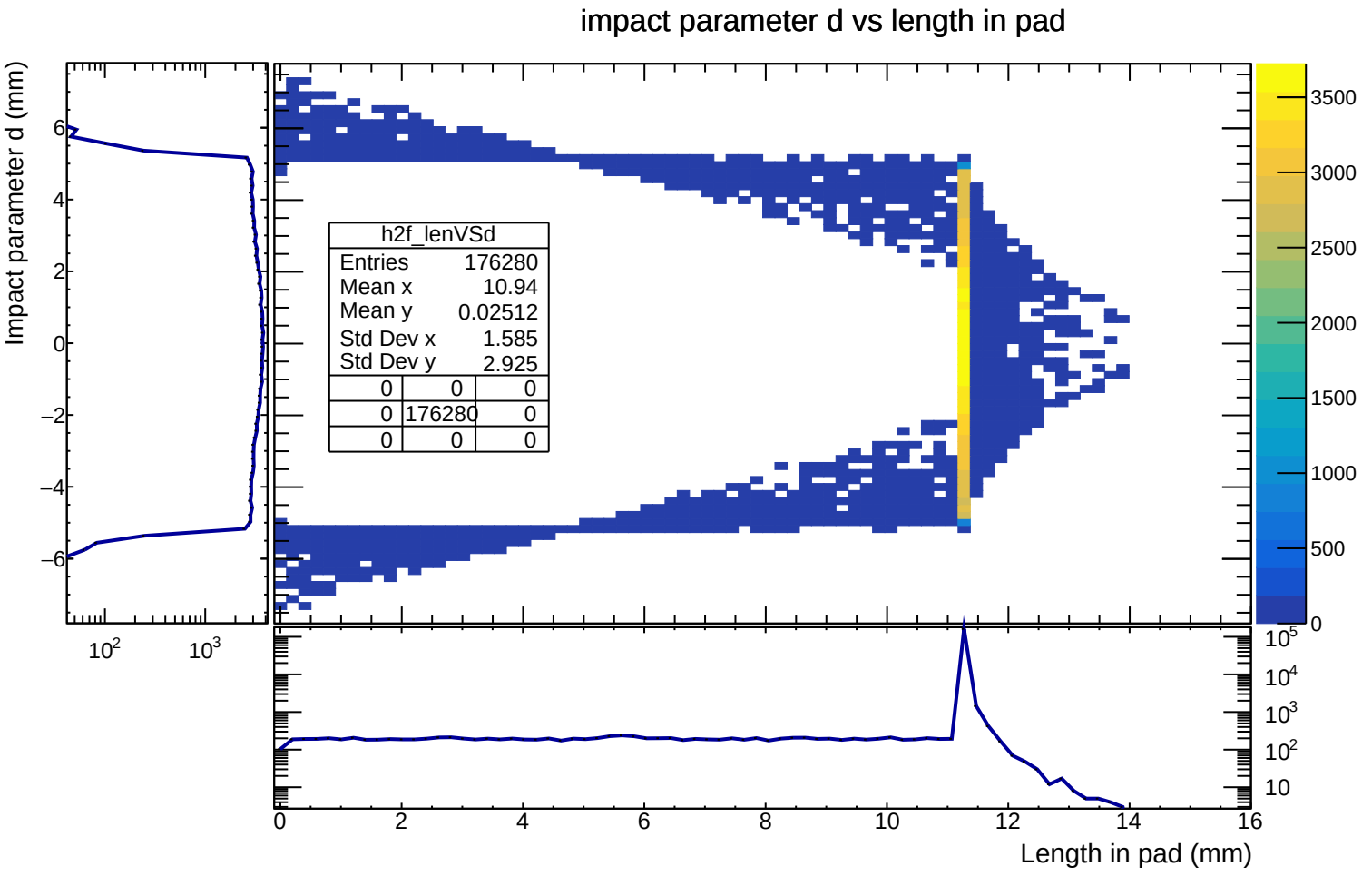

WF_sum VS length in cluster
h2f_WFvsLength
Entries 170768
Mean x 11.28
Mean y 1196
Std Dev x 0.08315
Std Dev y 345.8
0 17875 0
0 152893 0
0 0 0
WF_sum (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
0
1000
2000
3000
4000
5000
6000
7000
8000


WF sum truncated VS length in cluster
h2f_WFtruncvsLength
Entries 115523
Mean x 11.28
Mean y 1050
Std Dev x 0.08228
Std Dev y 242.3
0 7 0
0 115516 0
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 1000 2000 3000 4000 5000 6000 7000 8000


WF*sum VS length in cluster
WF*sum (ADC count)
Length in cluster (mm)
h2f_WFstarvsLen
Entries 170768
Mean x 11.28
Mean y 1092
Std Dev x 0.08389
Std Dev y 342.7
0 11926 0
0 158842 0
0 0 0
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 9000


WF*sum truncated VS length in cluster
h2f_WFstartrcvsLen
Entries 115523
Mean x 11.28
Mean y 1076
Std Dev x 0.08184
Std Dev y 337.3
0 7064 0
0 108459 0
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
1000
2000
3000
4000
5000
6000


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 170768
Mean 120
Std Dev 53.79
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)
6
4
2
0
−2
−4
−6
10^2
10^3
h2f_lenVSd
Entries 176280
Mean x 10.94
Mean y 0.02512
Std Dev x 1.585
Std Dev y 2.925
0 0 0
0 176280 0
0 0 0
3500
3000
2500
2000
1500
1000
500
0
10^5
10^4
10^3
10^2
10
0
2
4
6
8
10
12
14
16
Length in pad (mm)