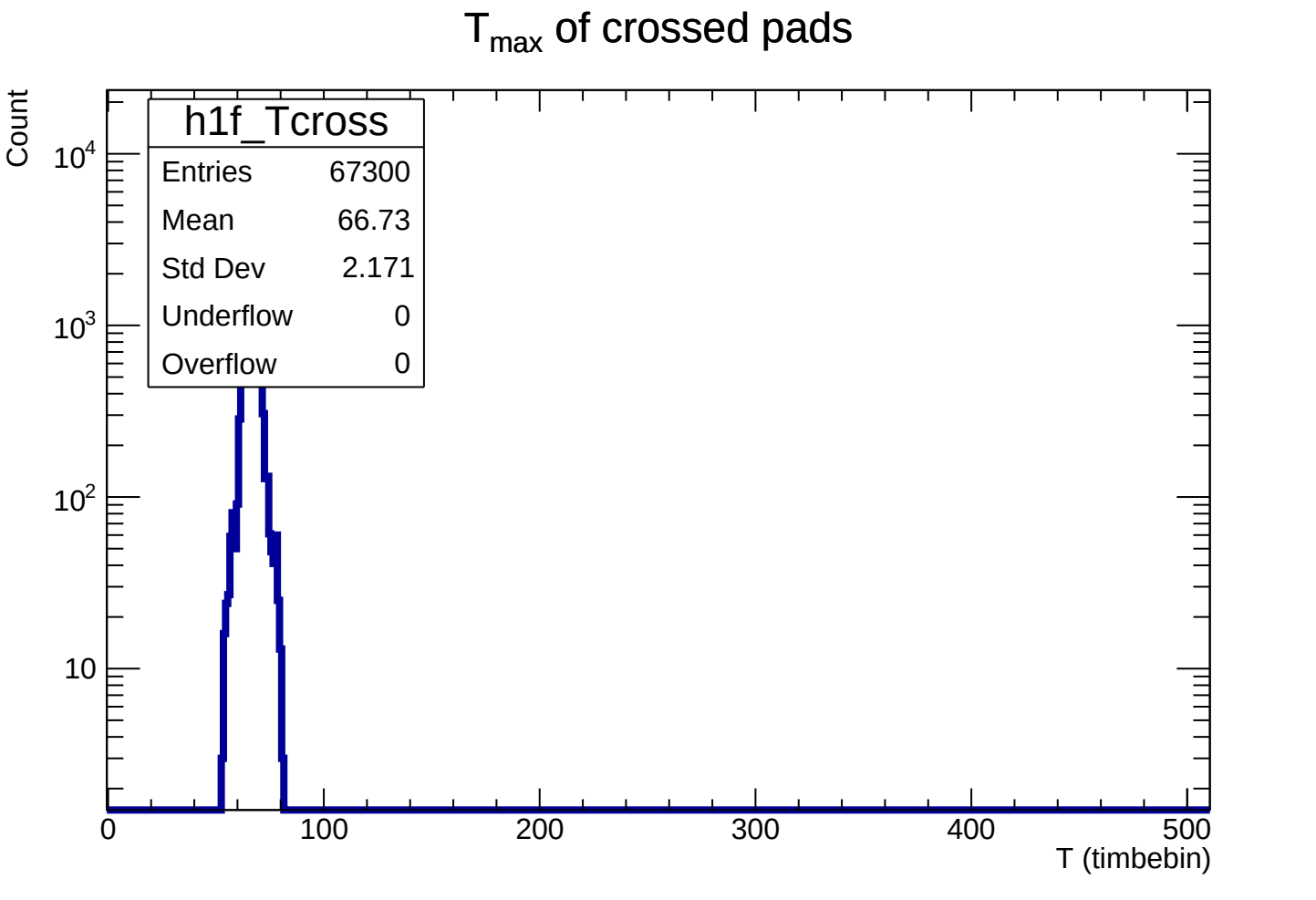
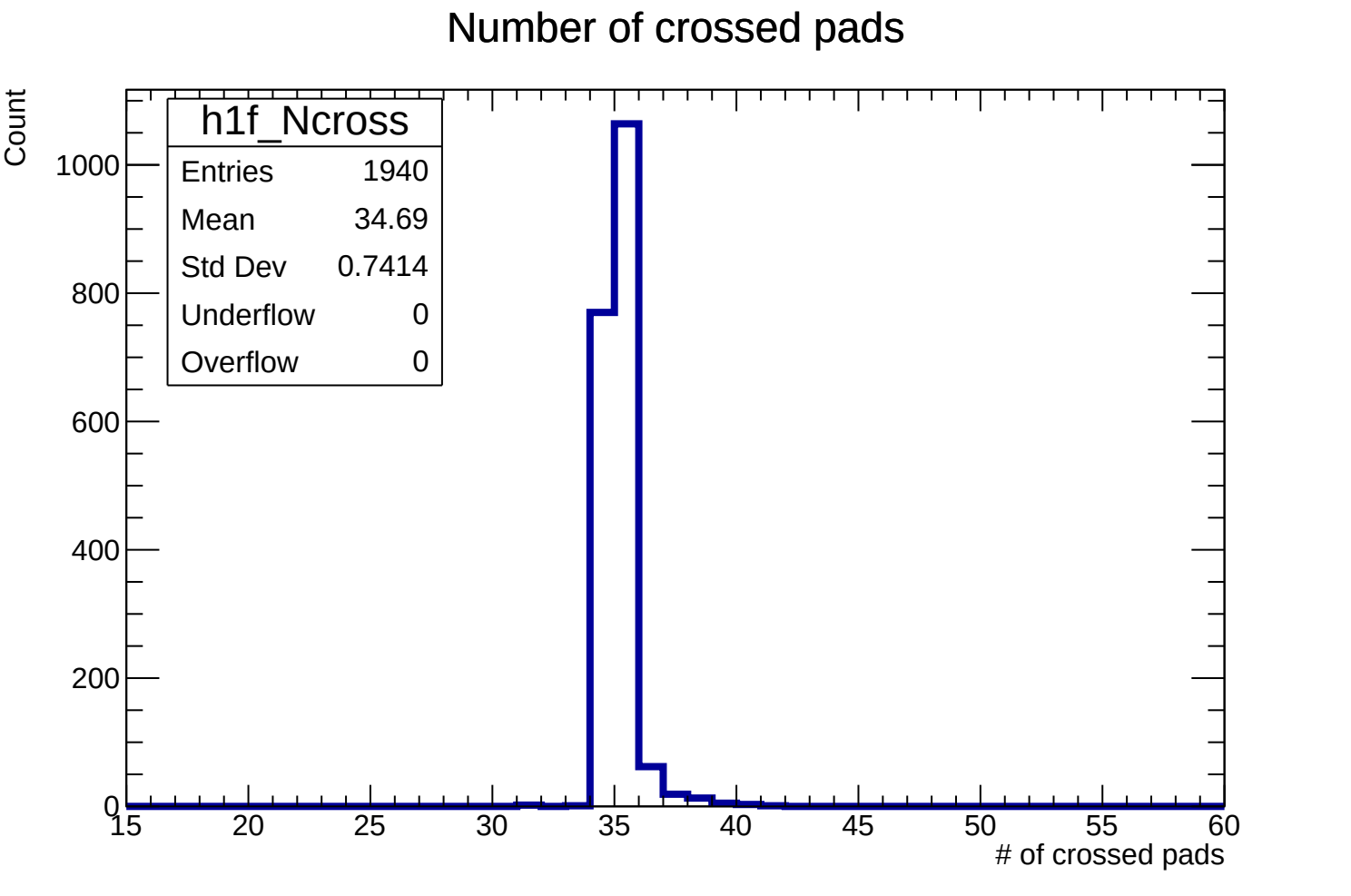
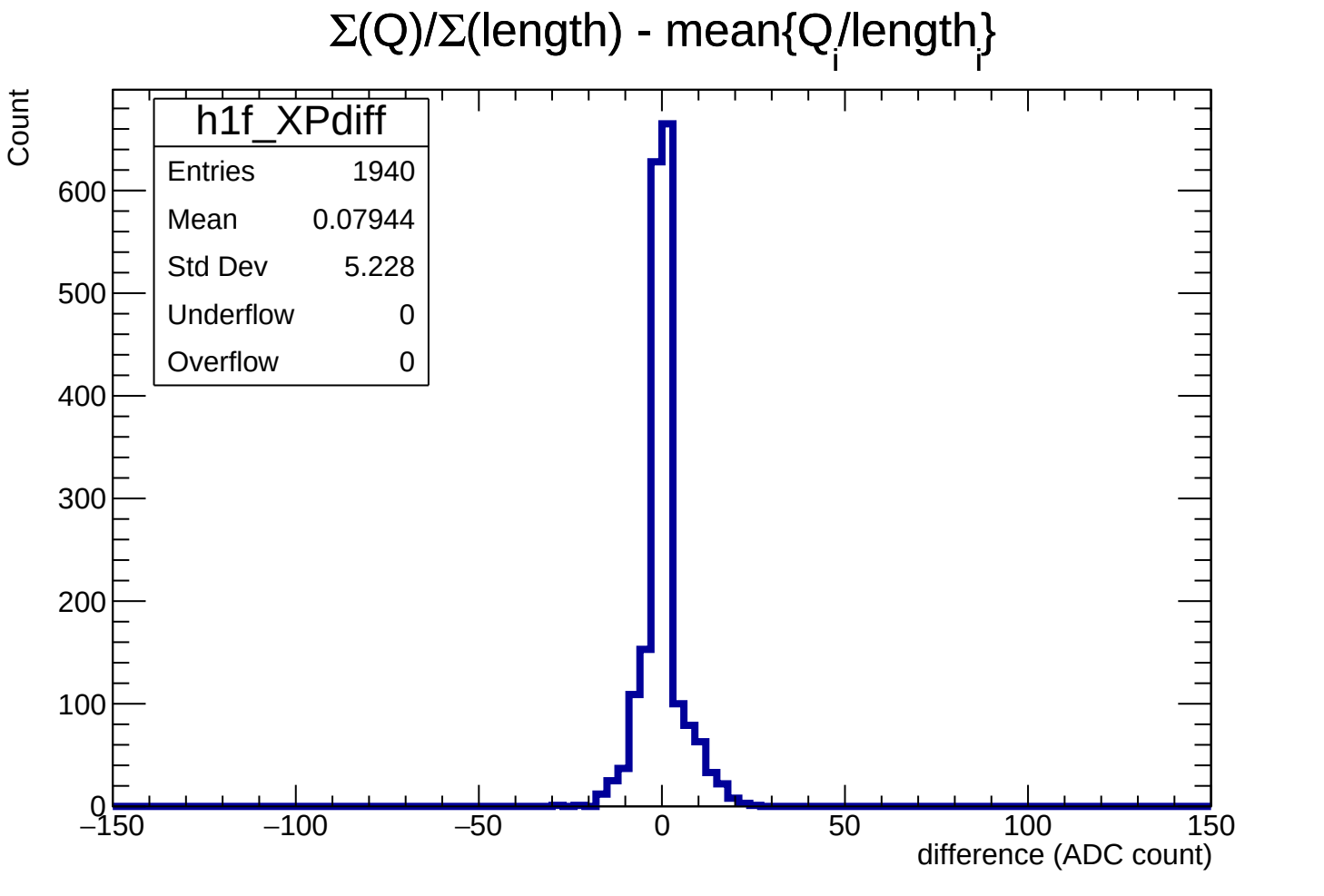
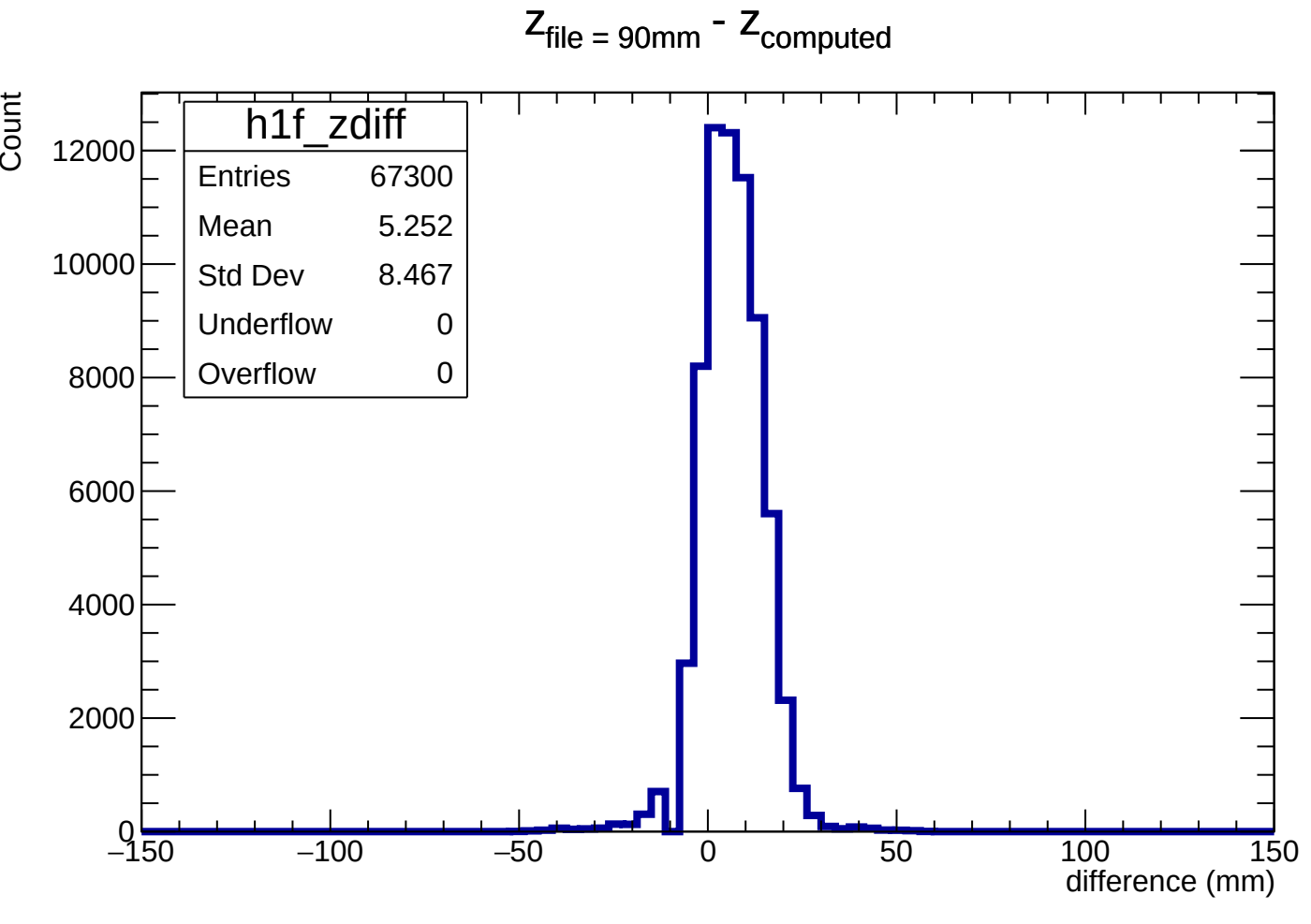
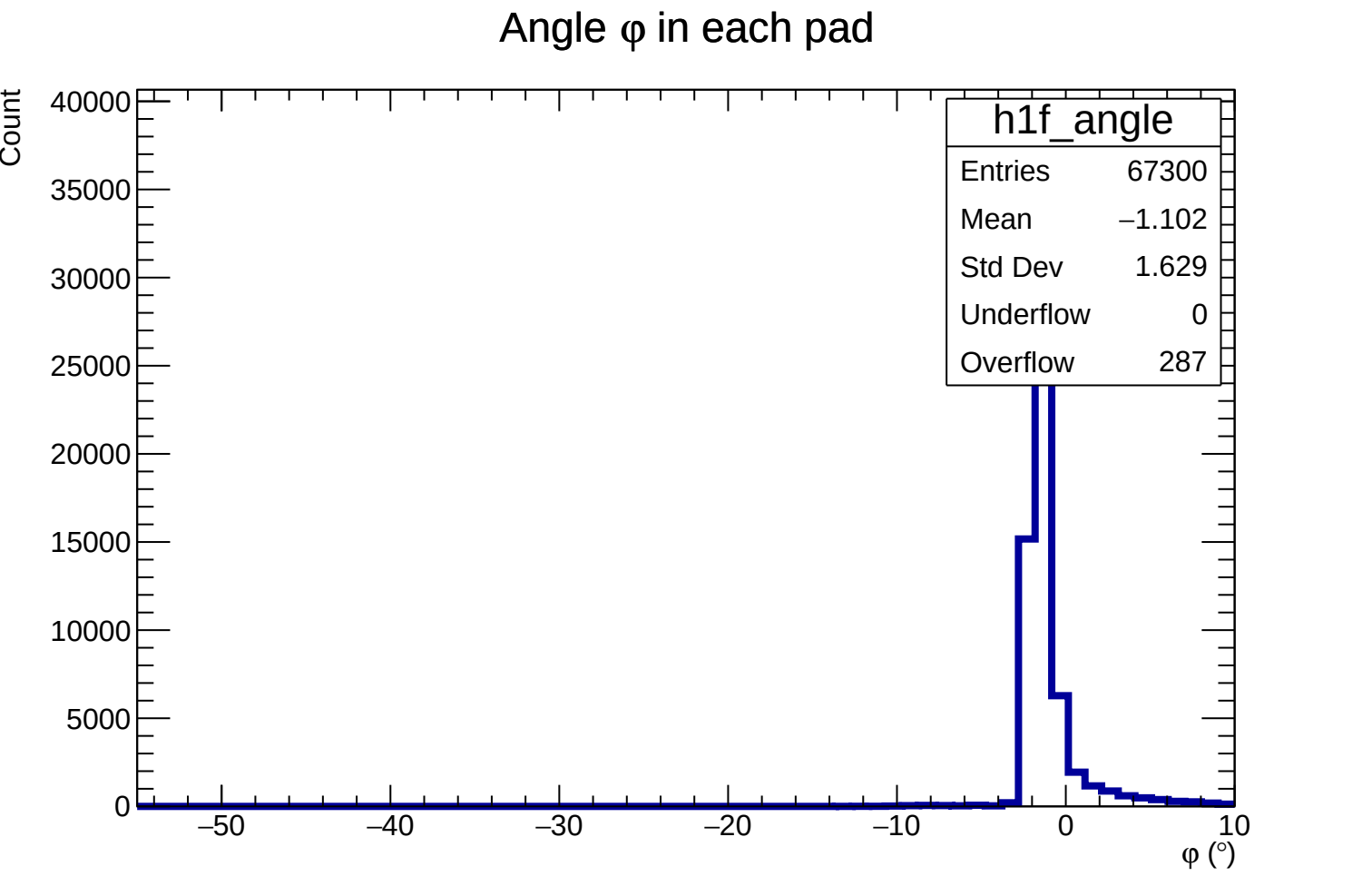
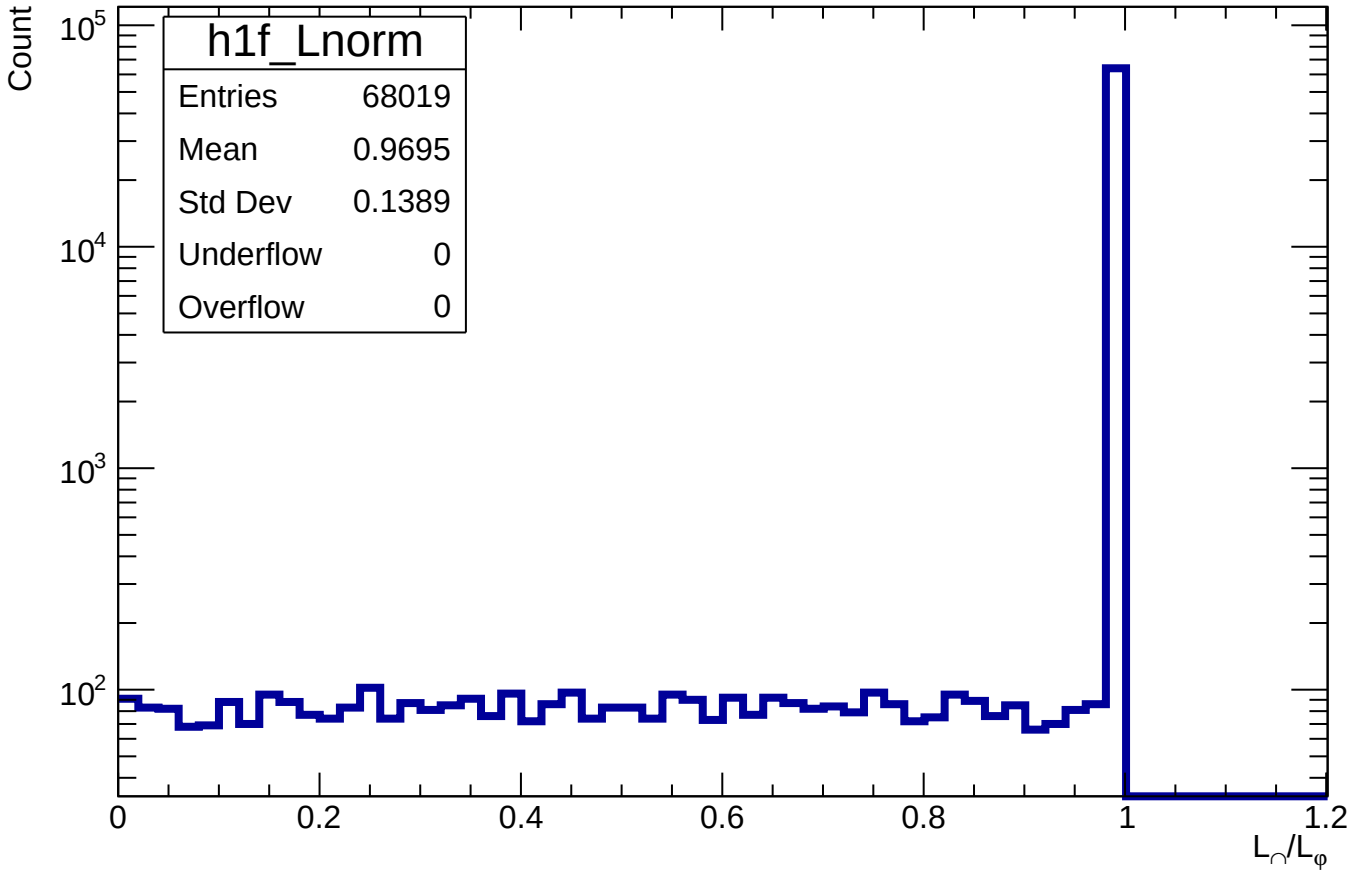

T_{max} of crossed pads
h1f_Tcross
Entries 67300
Mean 66.73
Std Dev 2.171
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
0
100
200
300
400
500
T (timbebin)

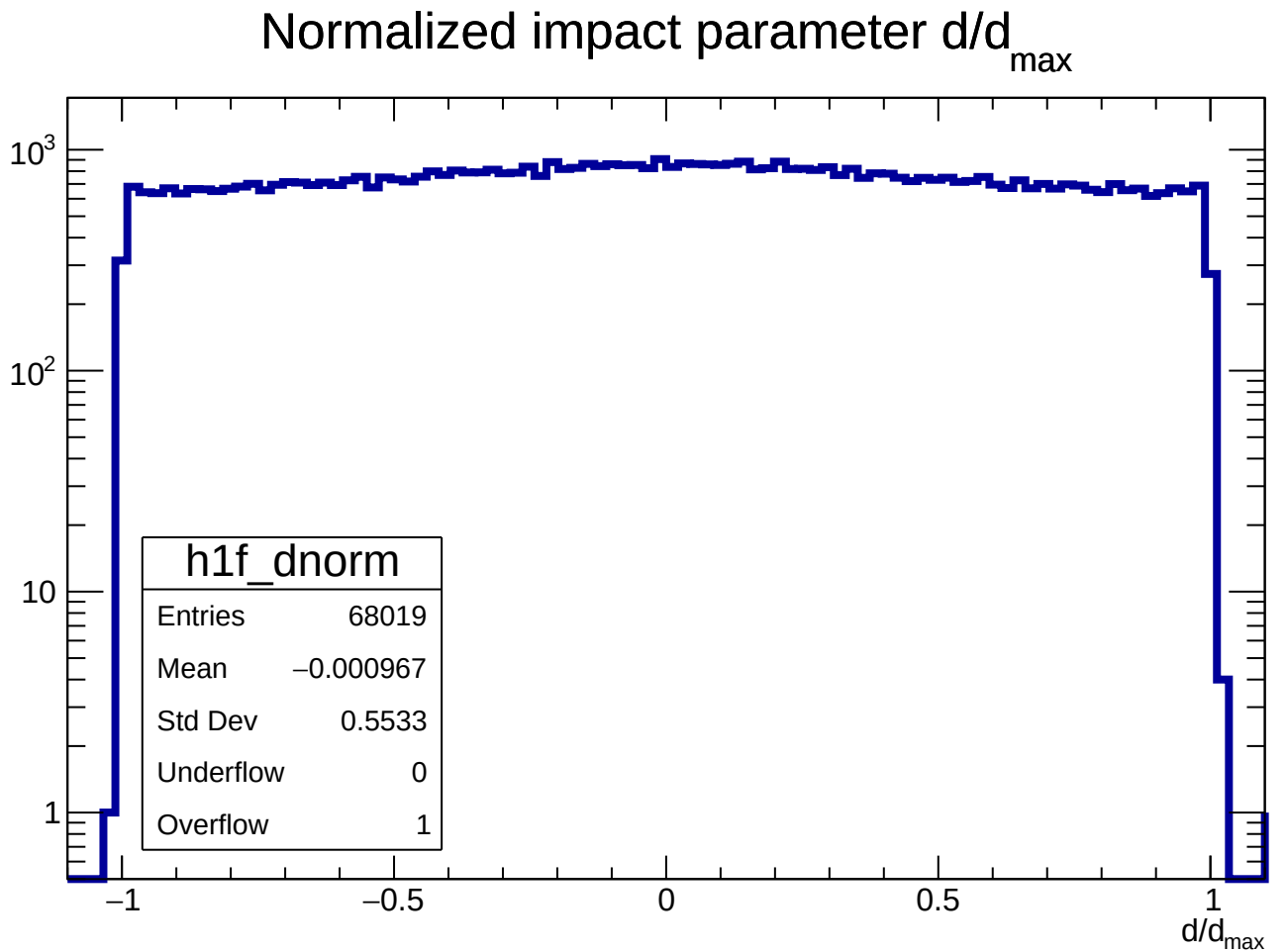

Number of crossed pads
h1f_Ncross
Entries 1940
Mean 34.69
Std Dev 0.7414
Underflow 0
Overflow 0
Count
0
200
400
600
800
1000
15
20
25
30
35
40
45
50
55
60
# of crossed pads

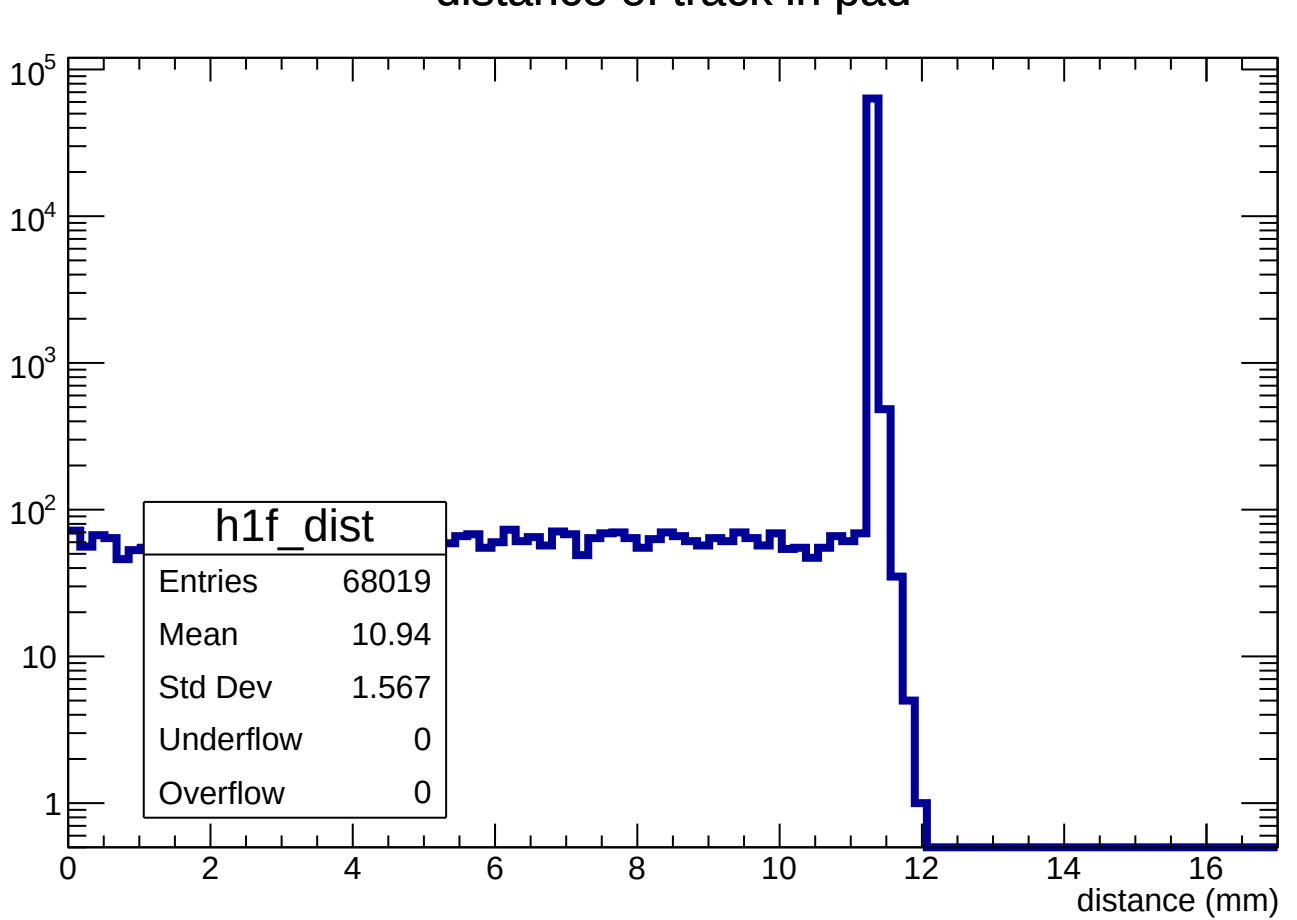

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 1940
Mean 0.07944
Std Dev 5.228
Underflow 0
Overflow 0
Count
0
100
200
300
400
500
600
–150
–100
–50
0
50
100
150
difference (ADC count)

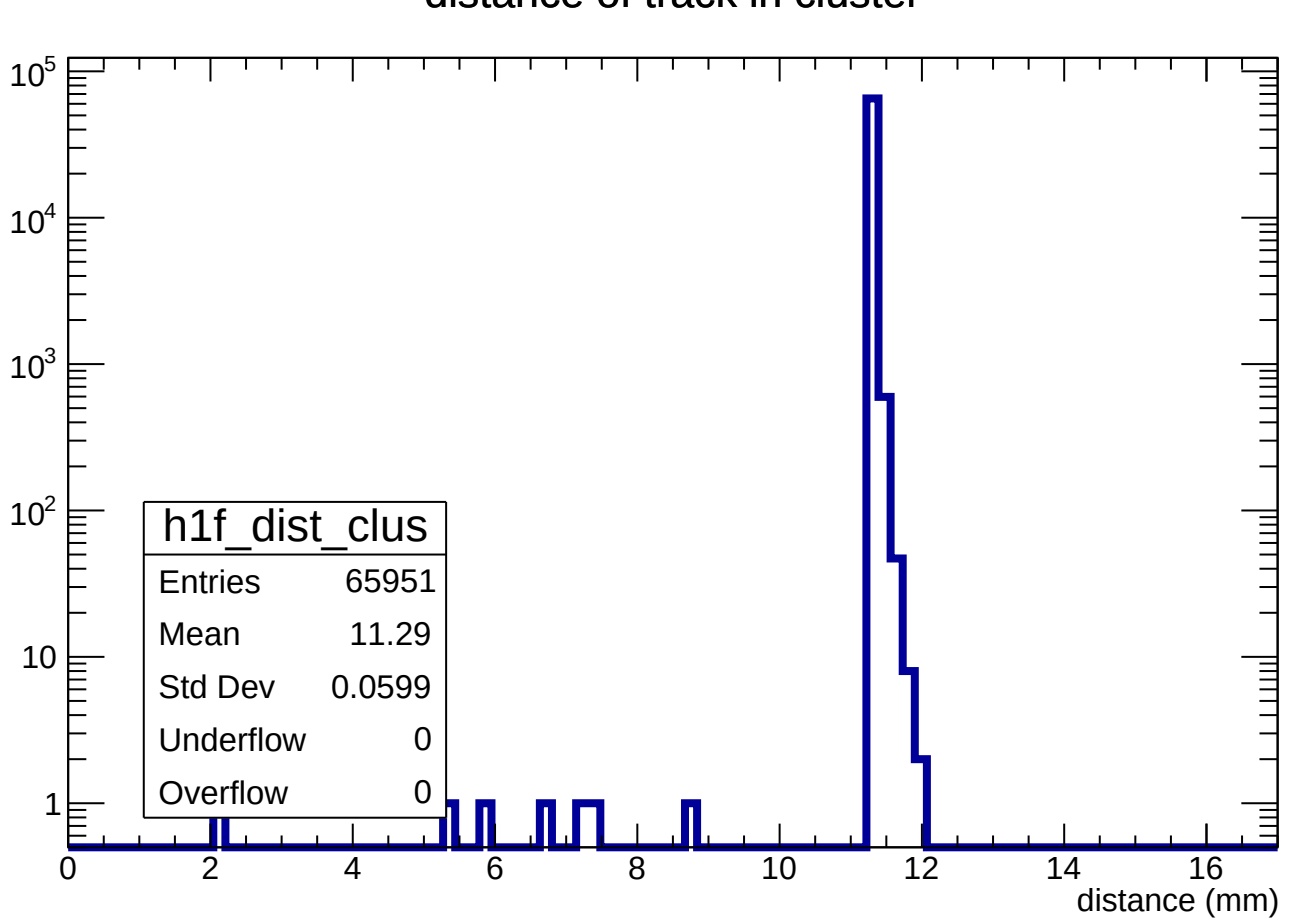

$z_{file = 90mm} - z_{computed}$
h1f_zdiff
Entries 67300
Mean 5.252
Std Dev 8.467
Underflow 0
Overflow 0
Count
12000
10000
8000
6000
4000
2000
0
–150
–100
–50
0
50
100
150
difference (mm)

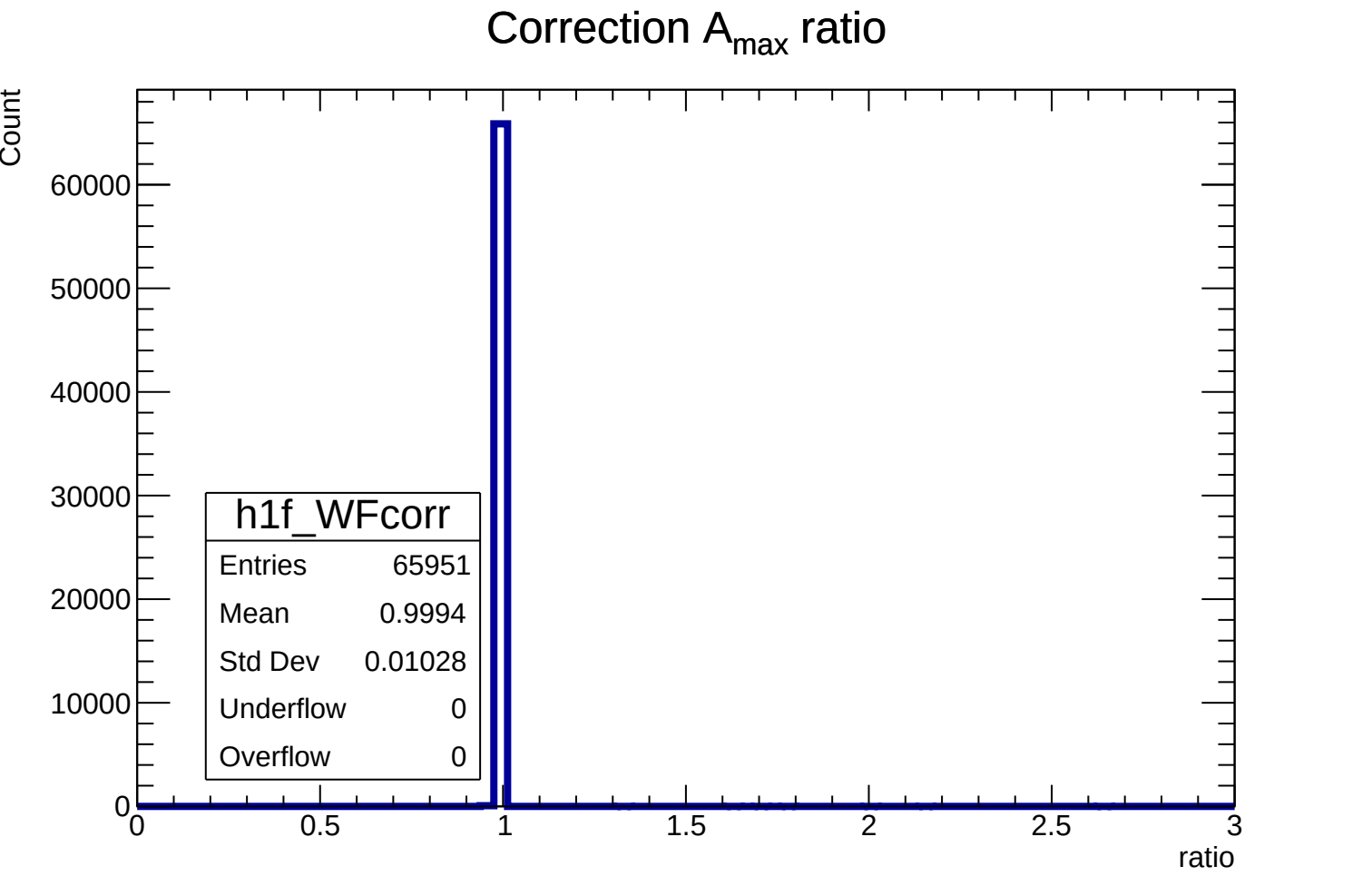

Angle φ in each pad
Count
40000
35000
30000
25000
20000
15000
10000
5000
0
–50
–40
–30
–20
–10
0
10
φ (°)
h1f_angle
Entries 67300
Mean –1.102
Std Dev 1.629
Underflow 0
Overflow 287

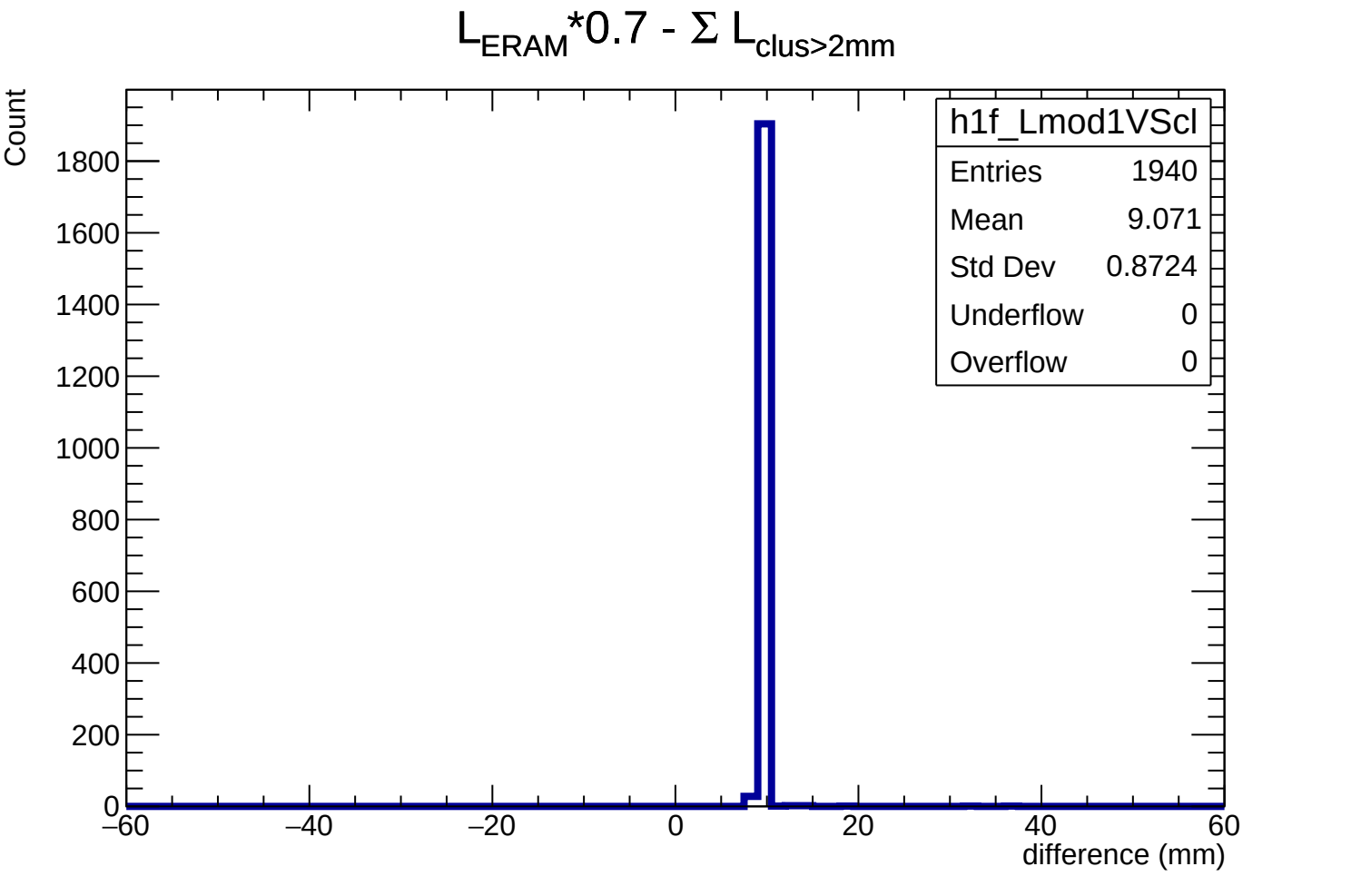

Length in pad normalized to maximum length in pad for a given φ
Count
h1f_Lnorm
Entries 68019
Mean 0.9695
Std Dev 0.1389
Underflow 0
Overflow 0
10^5
10^4
10^3
10^2
0
0.2
0.4
0.6
0.8
1
1.2
L_○/L_φ

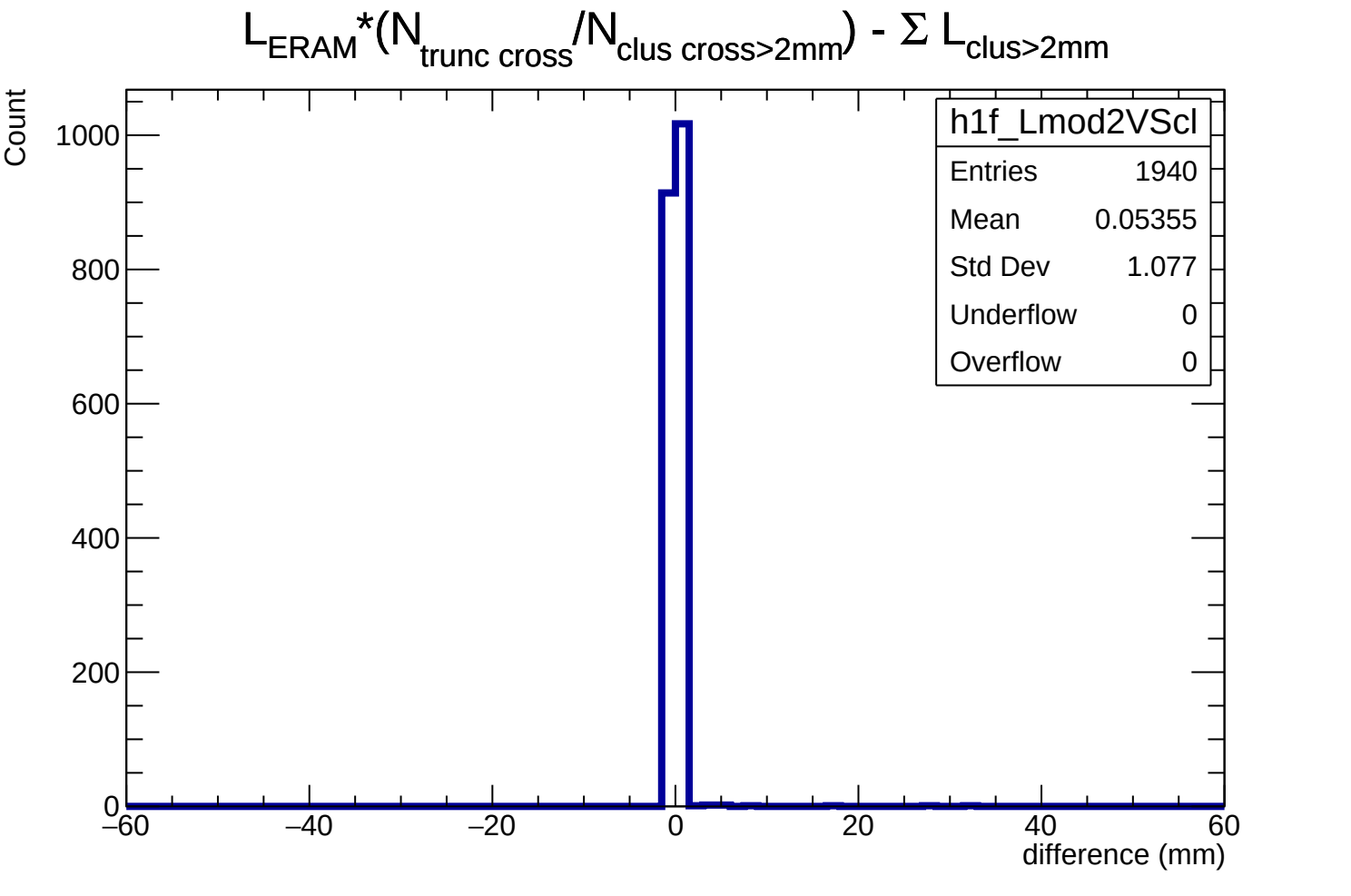

Normalized impact parameter d/d max
10^3
10^2
10
1
h1f_dnorm
Entries 68019
Mean −0.000967
Std Dev 0.5533
Underflow 0
Overflow 1
−1
−0.5
0
0.5
1
d/d max

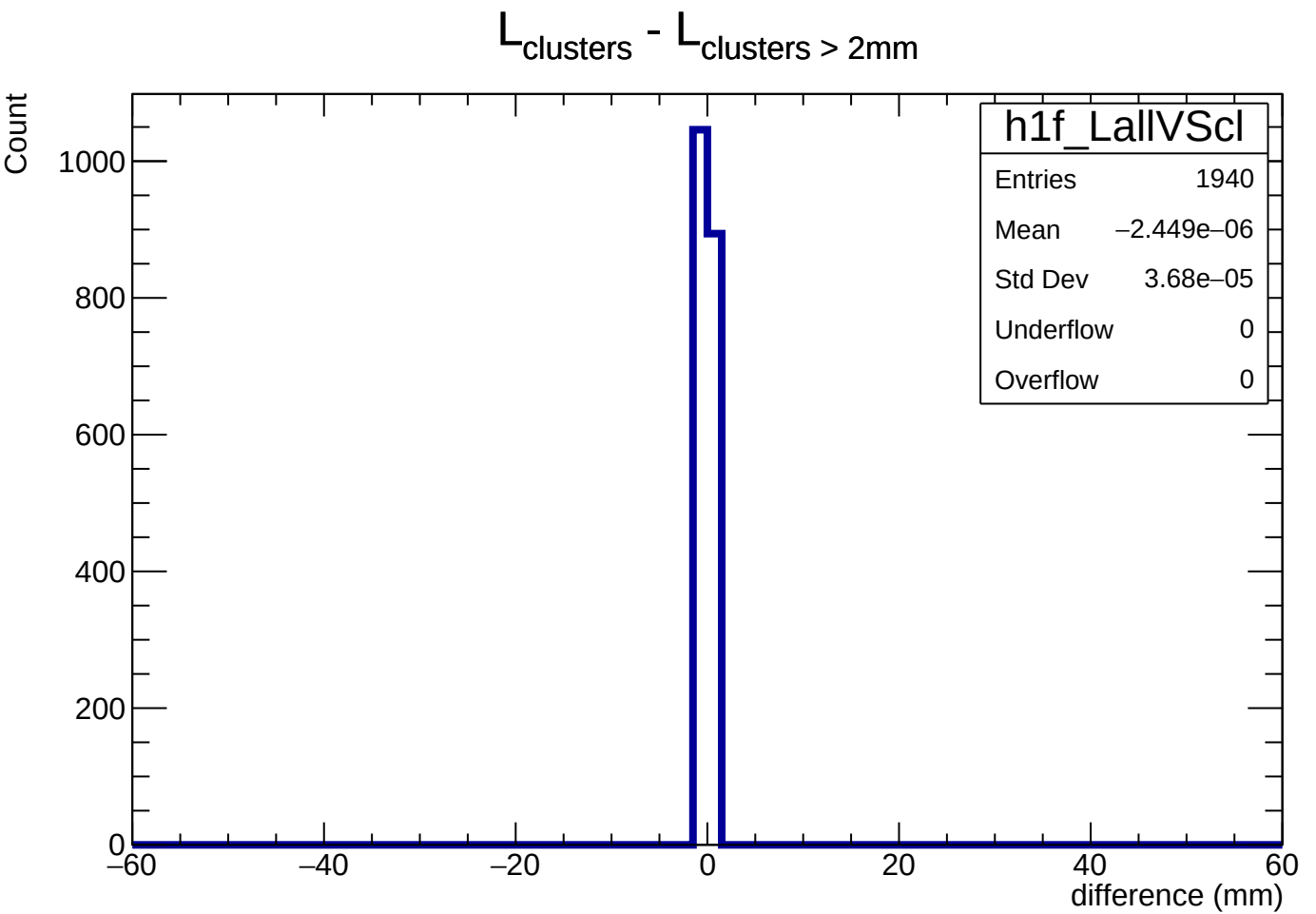

distance of track in pad
h1f_dist
Entries 68019
Mean 10.94
Std Dev 1.567
Underflow 0
Overflow 0
distance (mm)

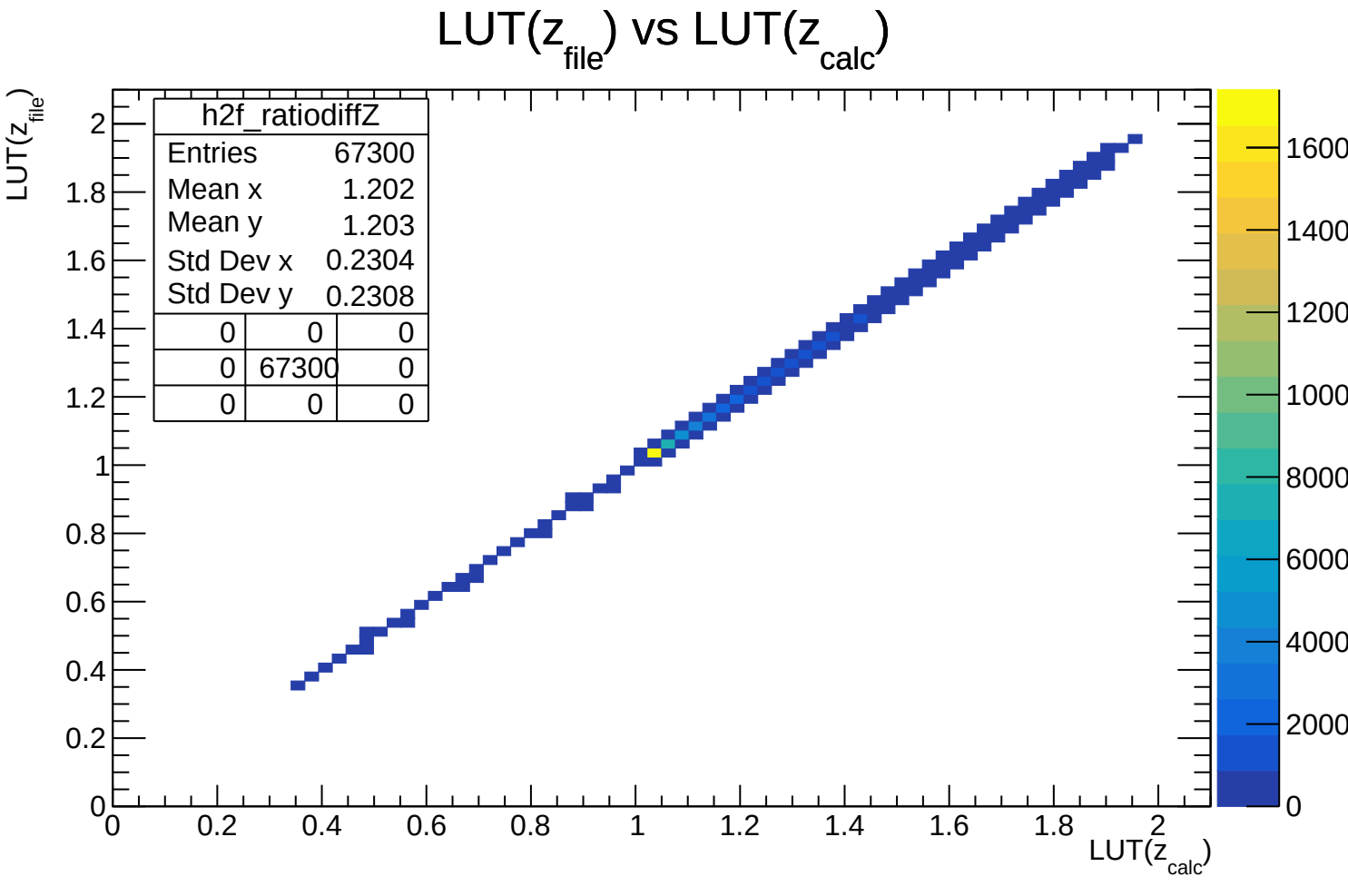

distance of track in cluster
h1f_dist_clus
Entries 65951
Mean 11.29
Std Dev 0.0599
Underflow 0
Overflow 0
distance (mm)

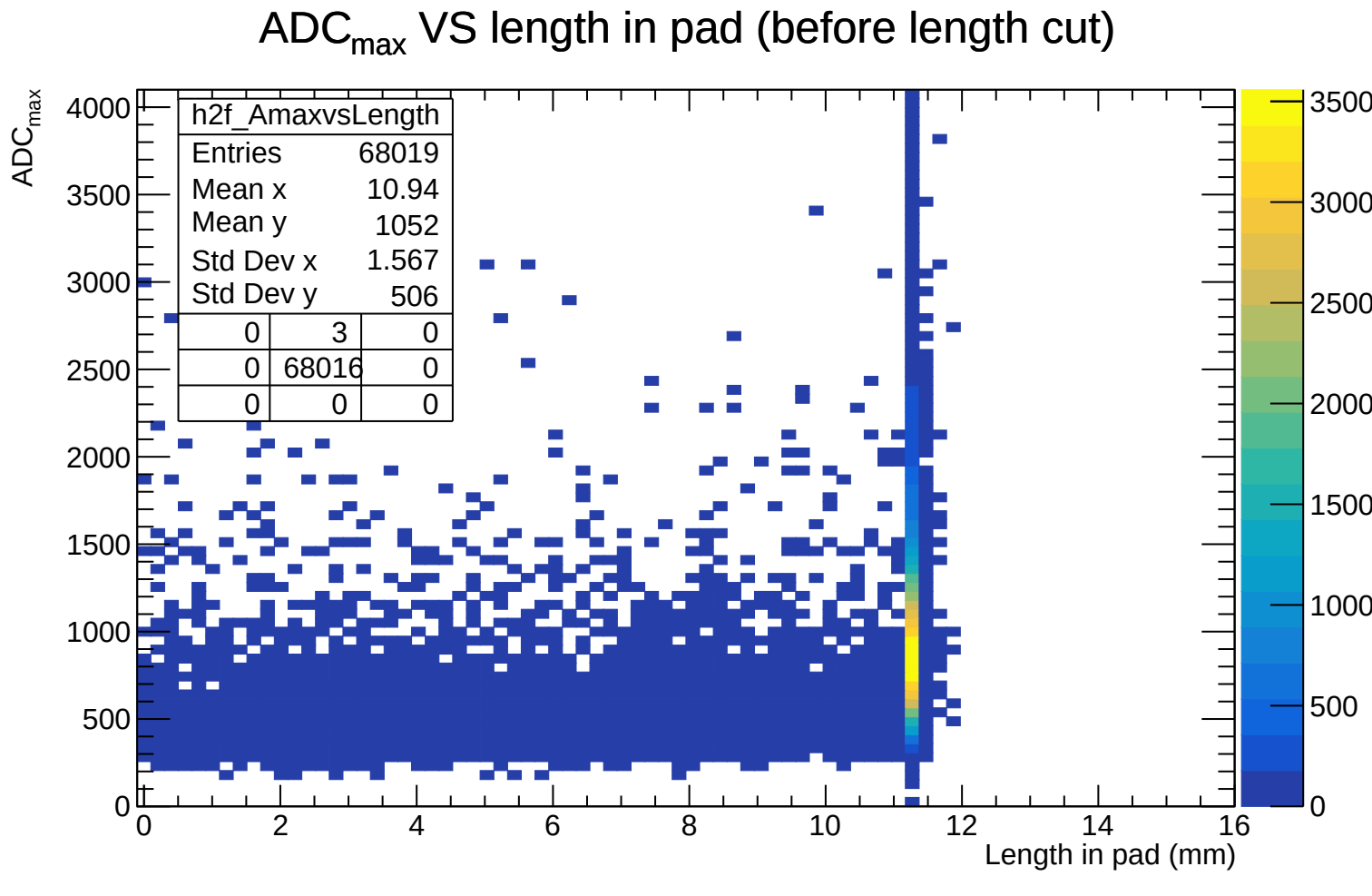

Correction A_{max} ratio
Count
60000
50000
40000
30000
20000
10000
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 65951
Mean 0.9994
Std Dev 0.01028
Underflow 0
Overflow 0

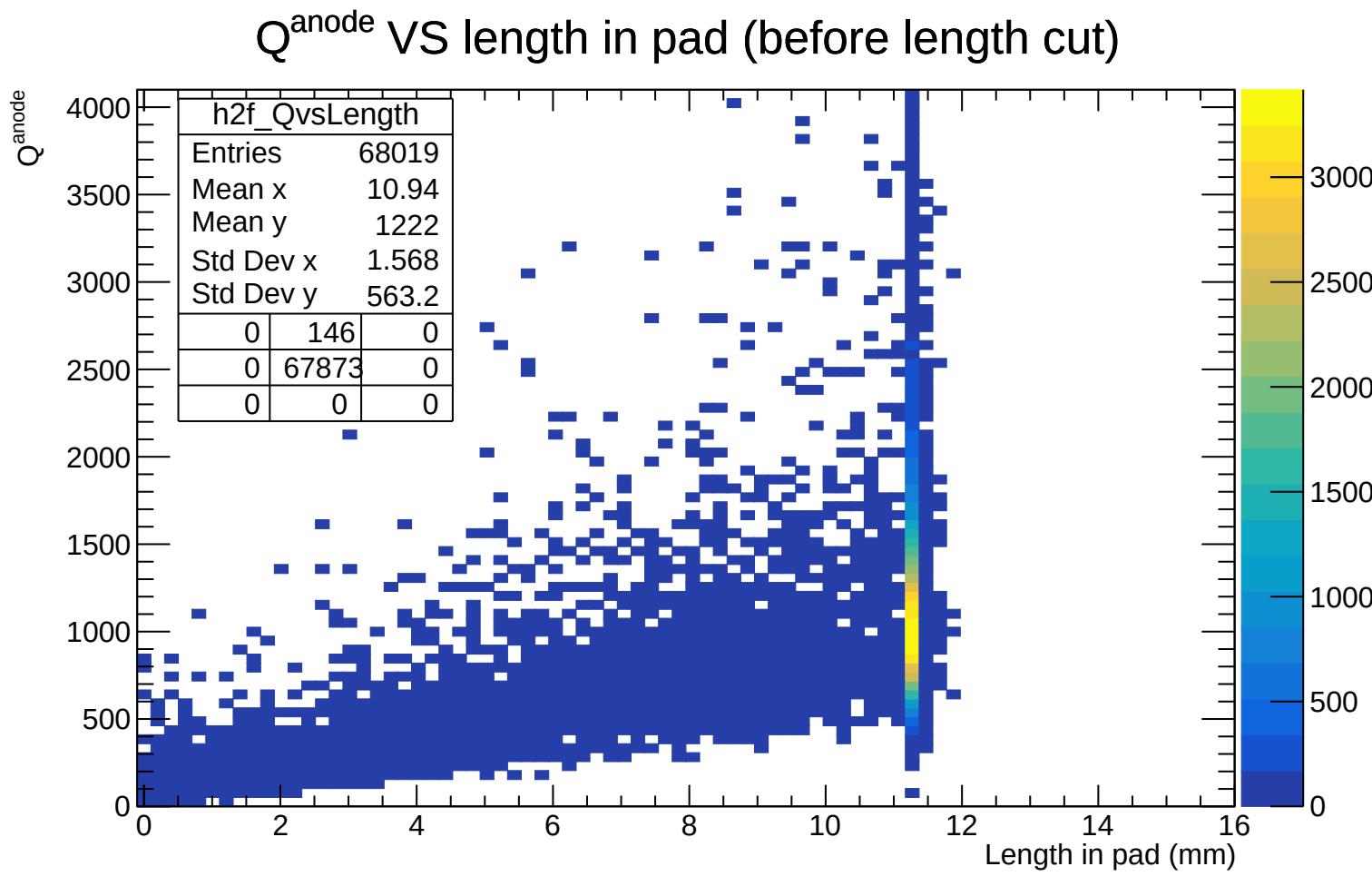

L_{ERAM}*0.7 - Σ $L_{clus>2mm}$
Count
h1f_Lmod1VScl
Entries 1940
Mean 9.071
Std Dev 0.8724
Underflow 0
Overflow 0
0
200
400
600
800
1000
1200
1400
1600
1800
–60
–40
–20
0
20
40
60
difference (mm)

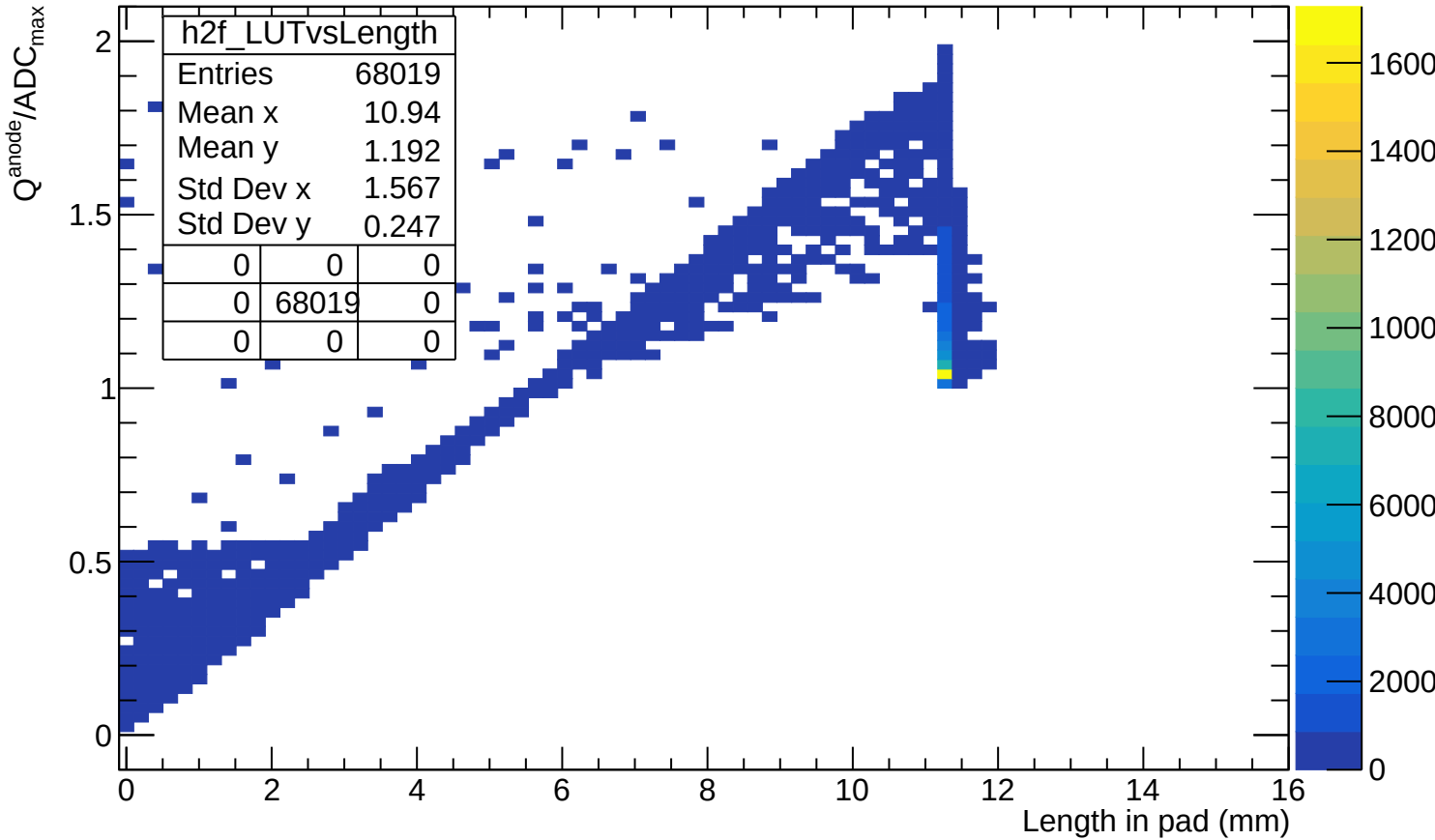

$L_{ERAM}*(N_{trunc\ cross}/N_{clus\ cross>2mm}) - \Sigma\ L_{clus>2mm}$
Count
1000
800
600
400
200
0
−60
−40
−20
0
20
40
60
difference (mm)
h1f_Lmod2VScl
Entries 1940
Mean 0.05355
Std Dev 1.077
Underflow 0
Overflow 0

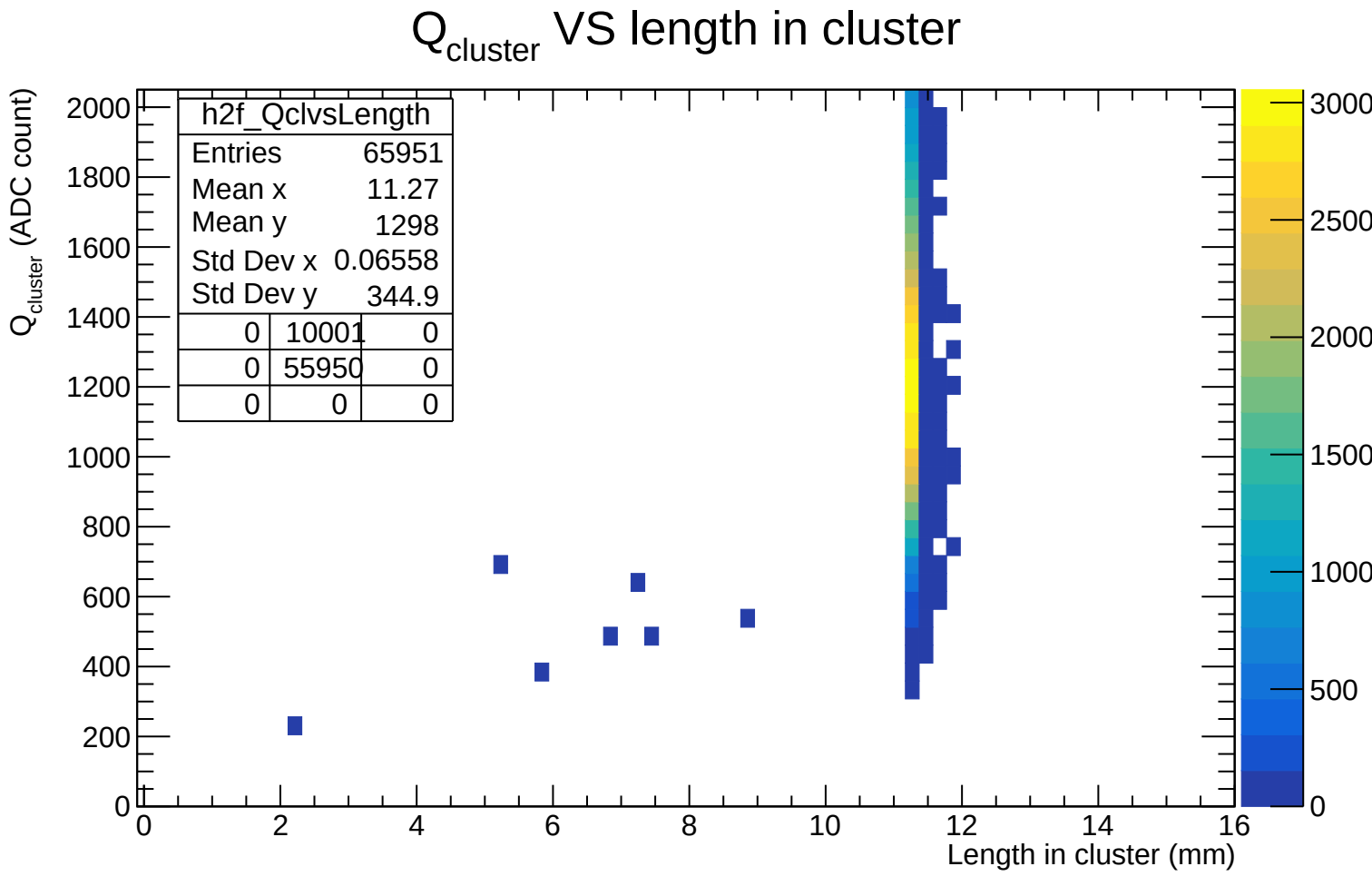

L clusters - L clusters > 2mm
Count
1000
800
600
400
200
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_LallVScl
Entries 1940
Mean –2.449e–06
Std Dev 3.68e–05
Underflow 0
Overflow 0

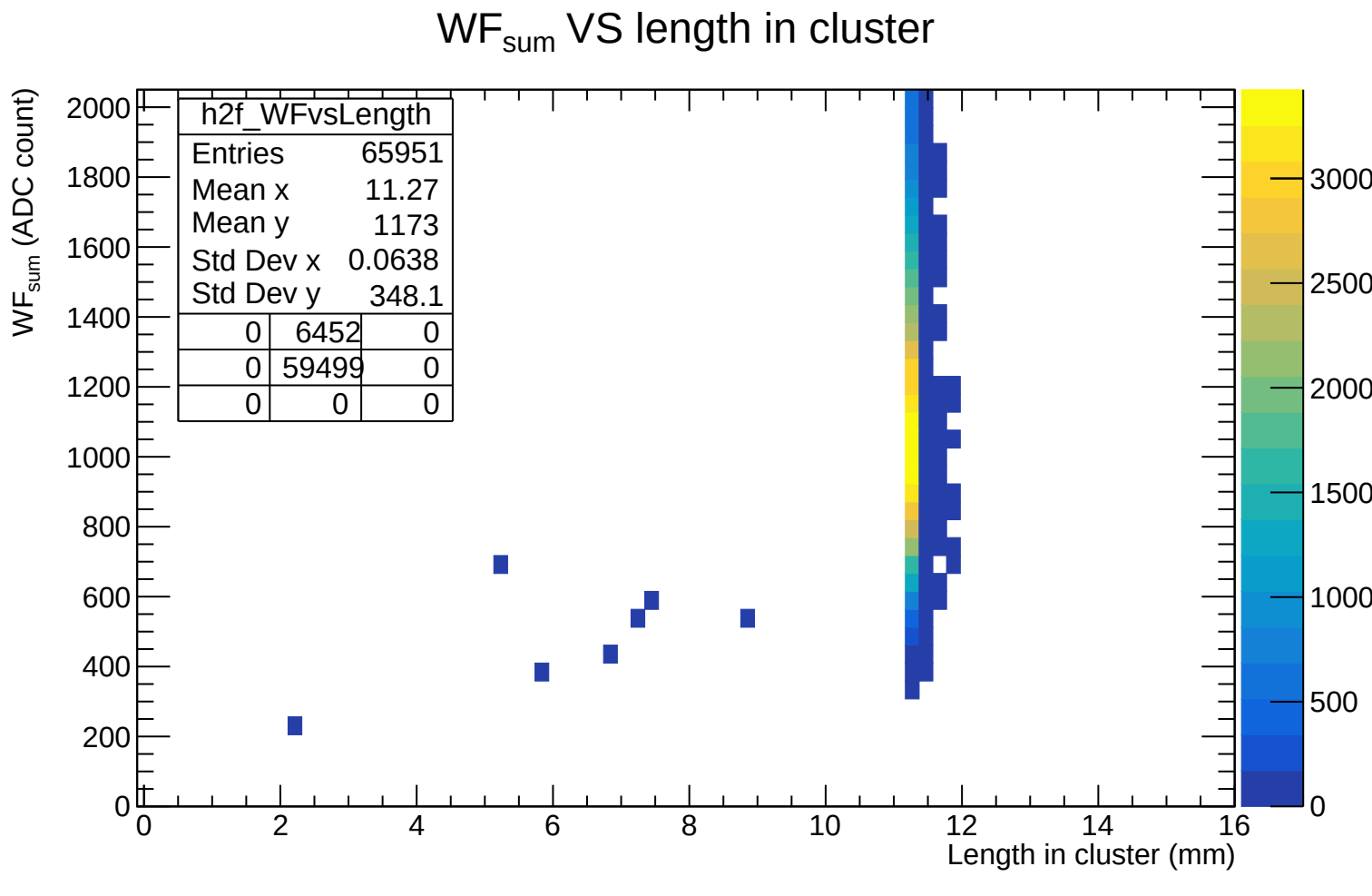

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 67300
Mean x 1.202
Mean y 1.203
Std Dev x 0.2304
Std Dev y 0.2308
0 0 0
0 67300 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 2000 4000 6000 8000 1000 1200 1400 1600

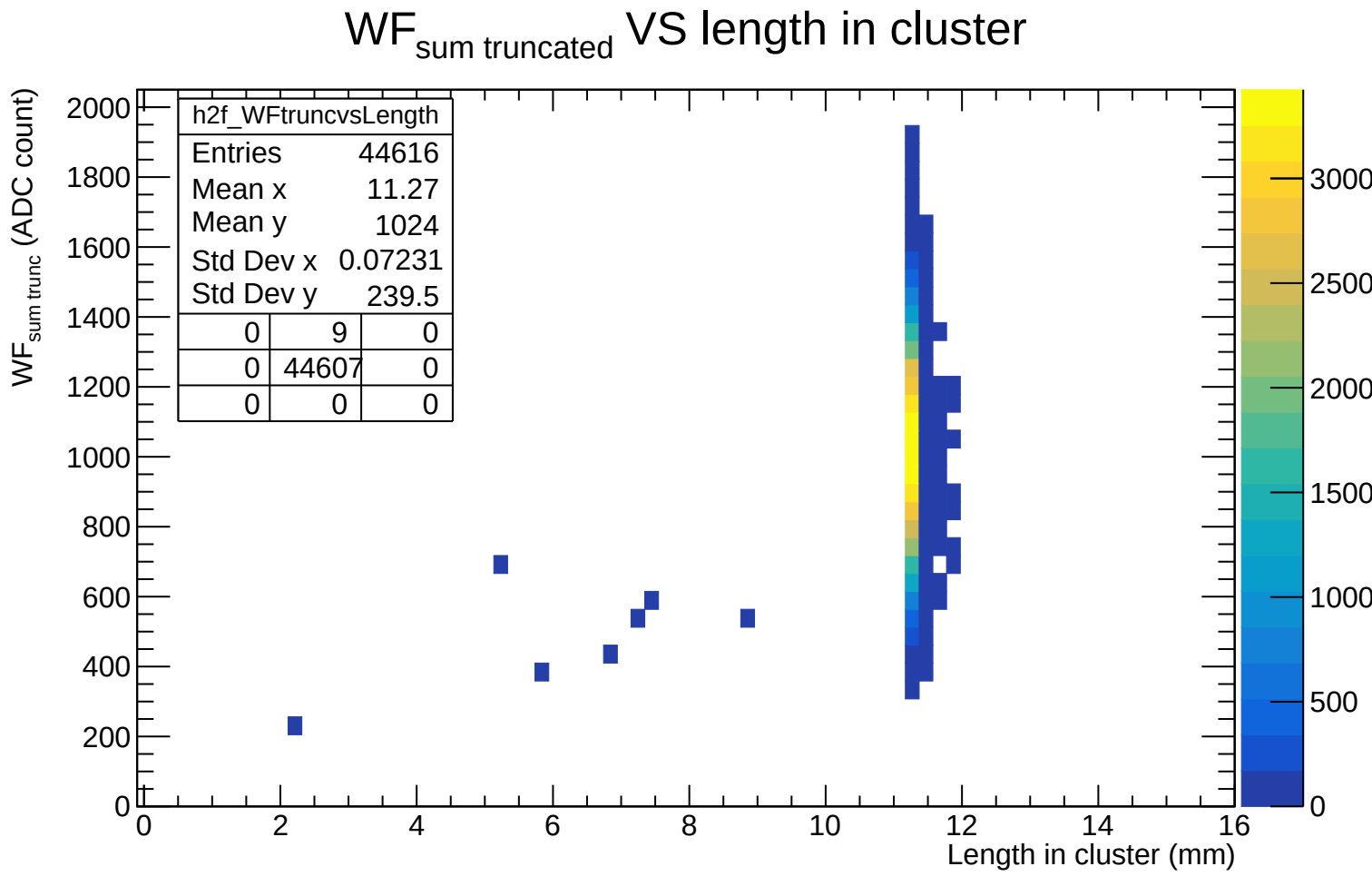

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 68019
Mean x 10.94
Mean y 1052
Std Dev x 1.567
Std Dev y 506
0 3 0
0 68016 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16

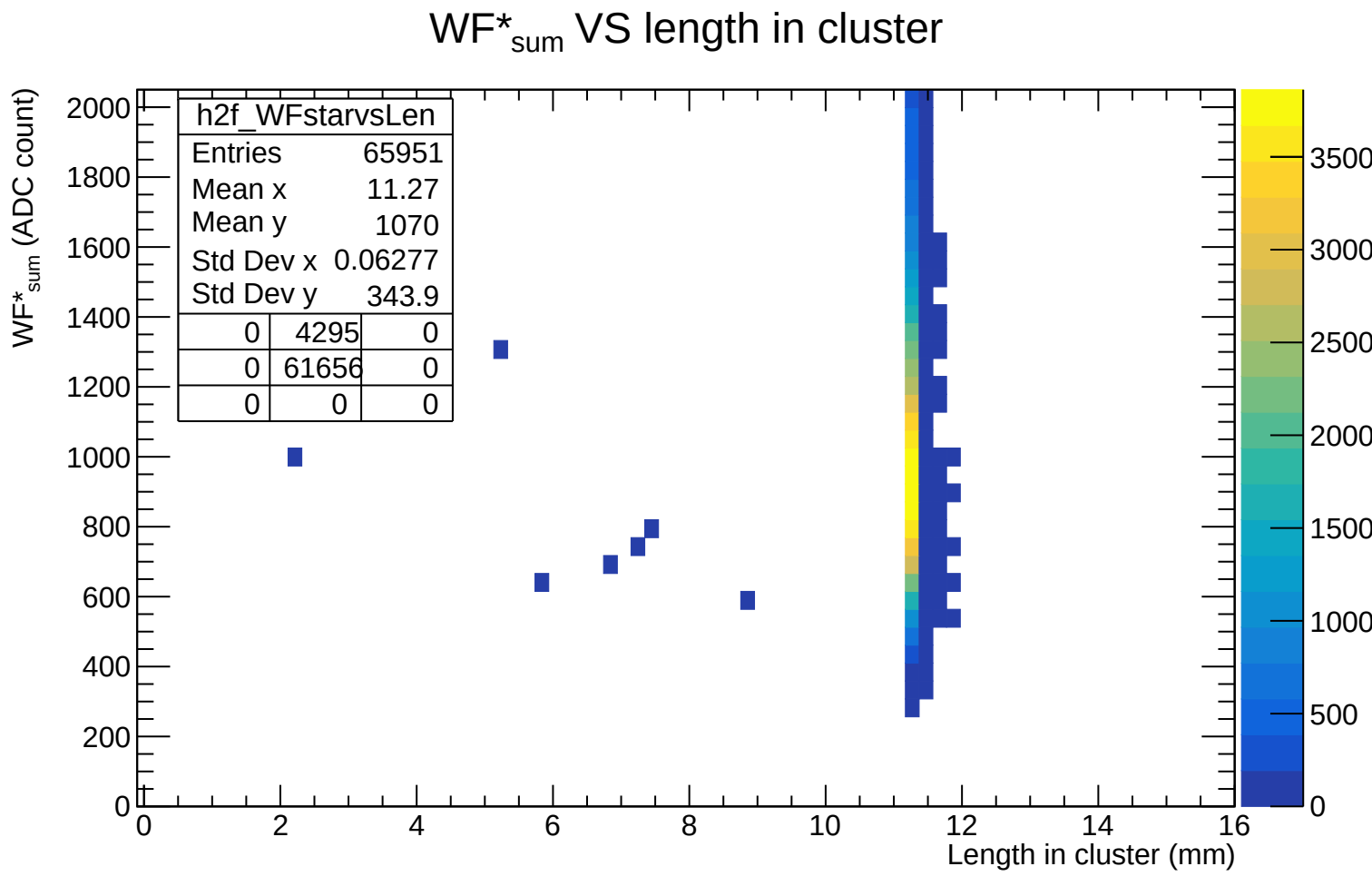

Q^anode VS length in pad (before length cut)
Q^anode
Length in pad (mm)
h2f_QvsLength
Entries 68019
Mean x 10.94
Mean y 1222
Std Dev x 1.568
Std Dev y 563.2
0 146 0
0 67873 0
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 500 1000 1500 2000 2500 3000

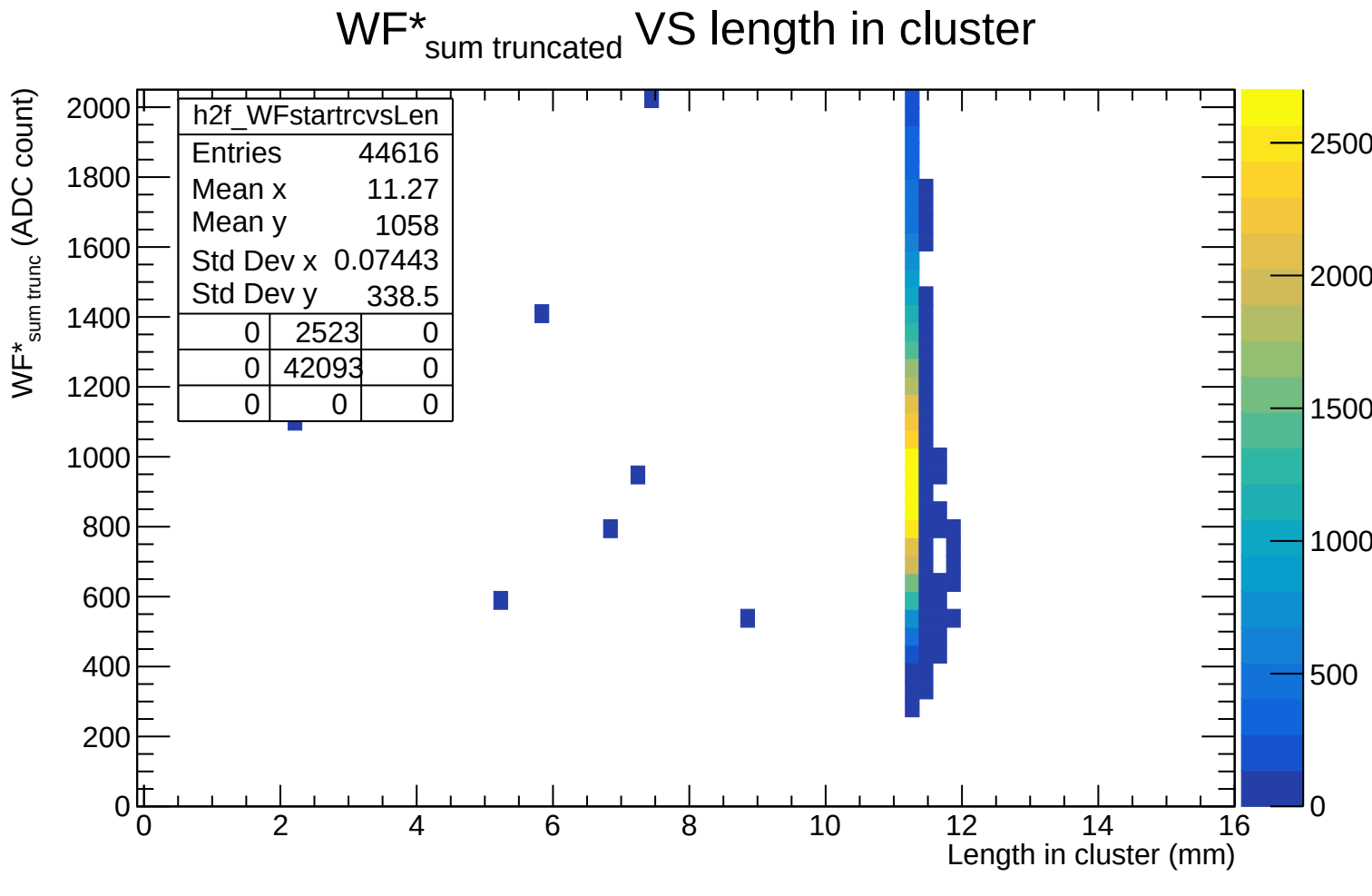

Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 68019
Mean x 10.94
Mean y 1.192
Std Dev x 1.567
Std Dev y 0.247
0 0 0
0 68019 0
0 0 0
Q^{anode}/ADC_{max}
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
2000
4000
6000
8000
1000
1200
1400
1600

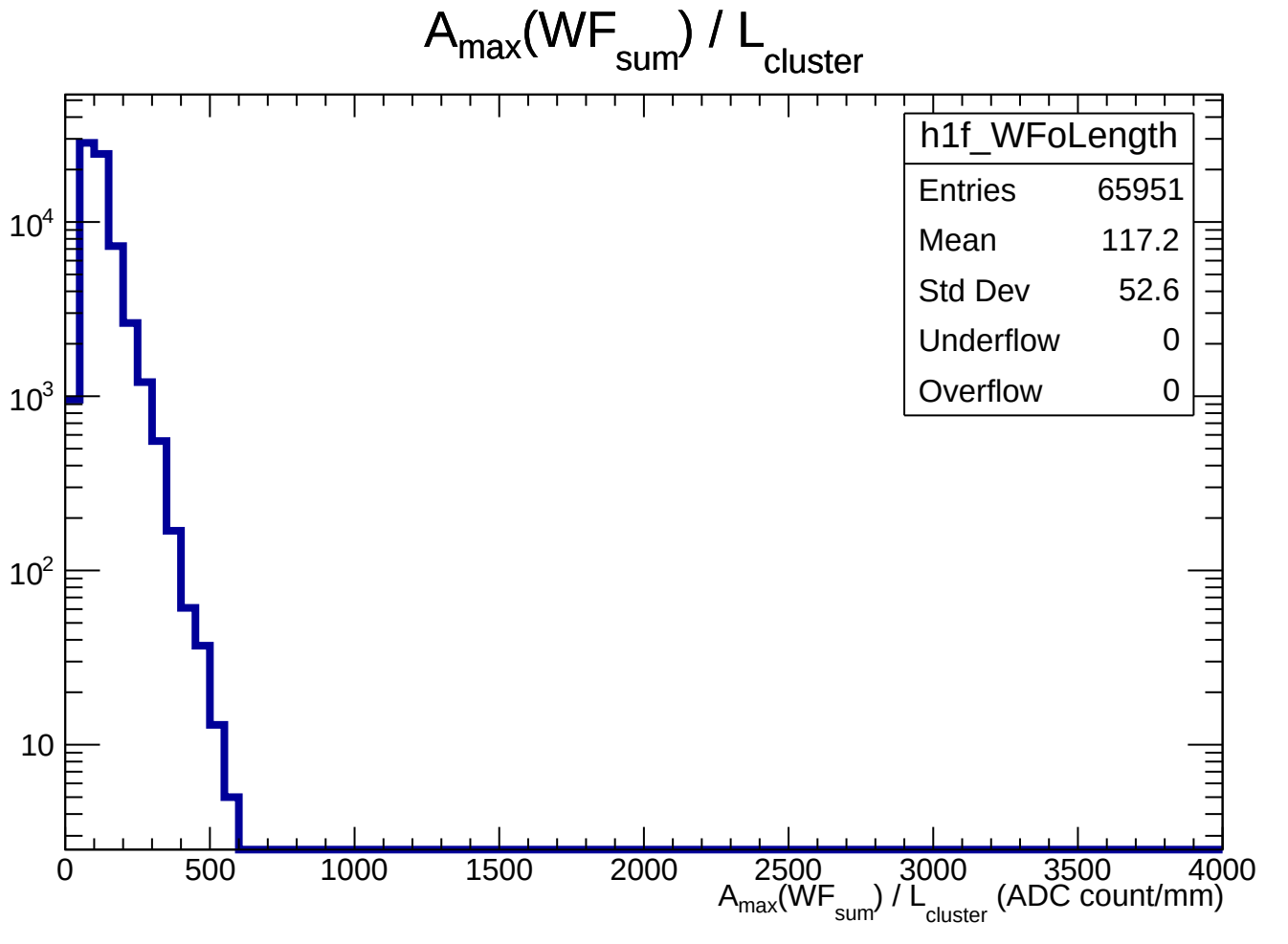

$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 65951
Mean x 11.27
Mean y 1298
Std Dev x 0.06558
Std Dev y 344.9
0 10001 0
0 55950 0
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 500 1000 1500 2000 2500 3000

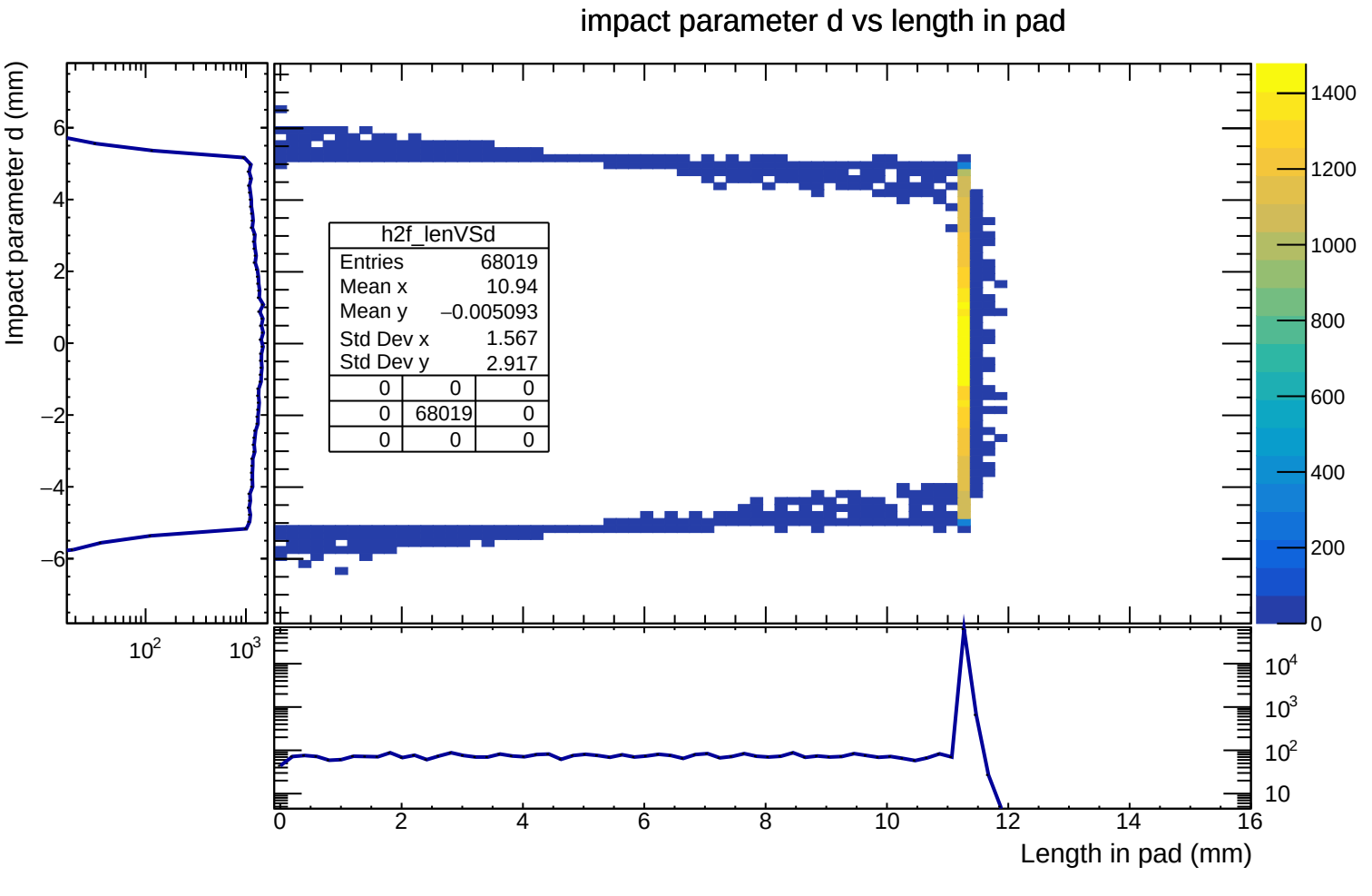

WF_sum VS length in cluster
h2f_WFvsLength
Entries 65951
Mean x 11.27
Mean y 1173
Std Dev x 0.0638
Std Dev y 348.1
0 6452 0
0 59499 0
0 0 0
WF_sum (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
500
1000
1500
2000
2500
3000


WF sum truncated VS length in cluster
h2f_WFtruncvsLength
Entries 44616
Mean x 11.27
Mean y 1024
Std Dev x 0.07231
Std Dev y 239.5
0 9 0
0 44607 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
500
1000
1500
2000
2500
3000


WF*sum VS length in cluster
h2f_WFstarvsLen
Entries 65951
Mean x 11.27
Mean y 1070
Std Dev x 0.06277
Std Dev y 343.9
0 4295 0
0 61656 0
0 0 0
WF*sum (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
0 500 1000 1500 2000 2500 3000 3500


WF*sum truncated VS length in cluster
h2f_WFstartrcvsLen
Entries 44616
Mean x 11.27
Mean y 1058
Std Dev x 0.07443
Std Dev y 338.5
0 2523 0
0 42093 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
500
1000
1500
2000
2500


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 65951
Mean 117.2
Std Dev 52.6
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)
Length in pad (mm)
h2f_lenVSd
Entries 68019
Mean x 10.94
Mean y −0.005093
Std Dev x 1.567
Std Dev y 2.917
0 0 0
0 68019 0
0 0 0