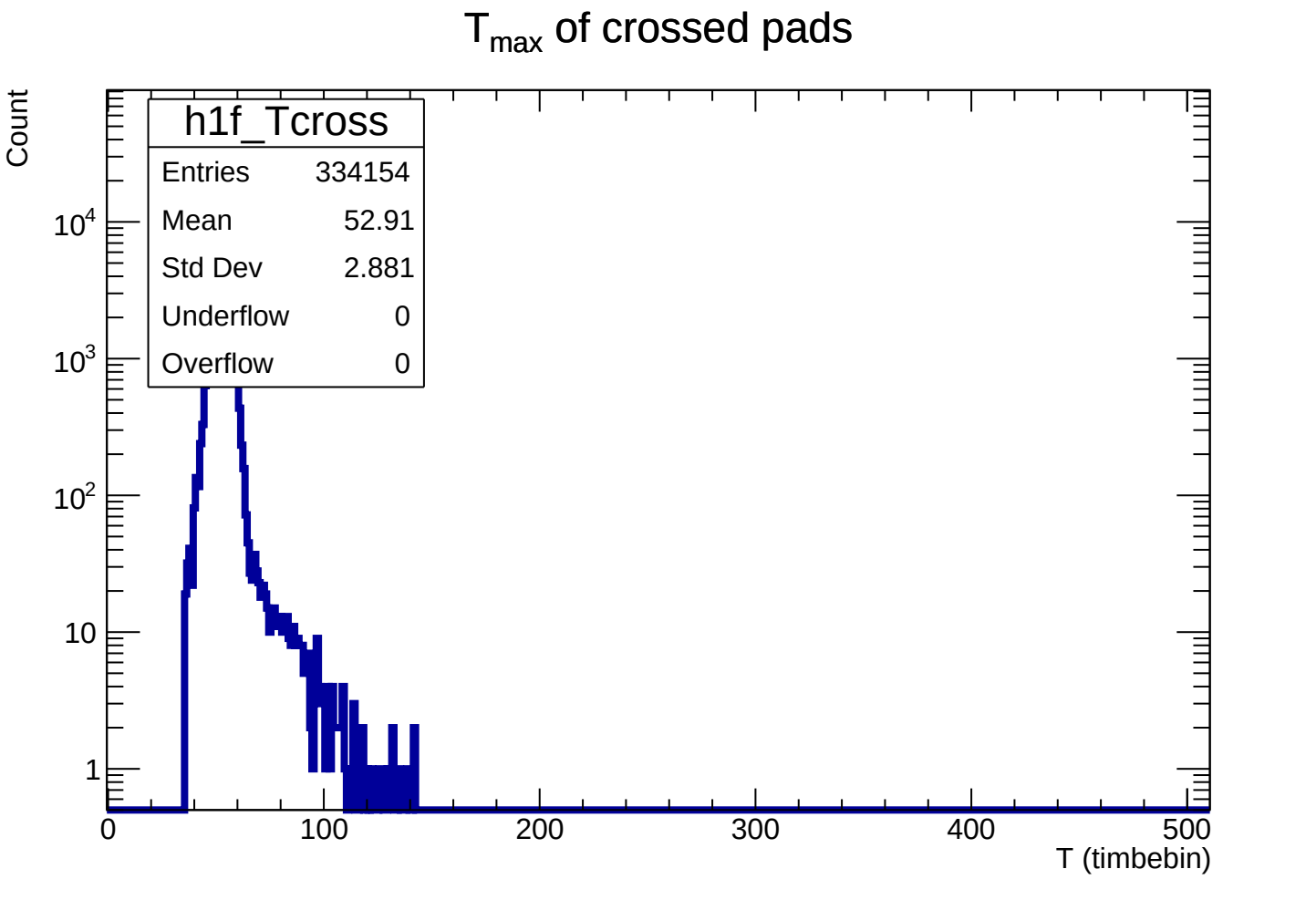
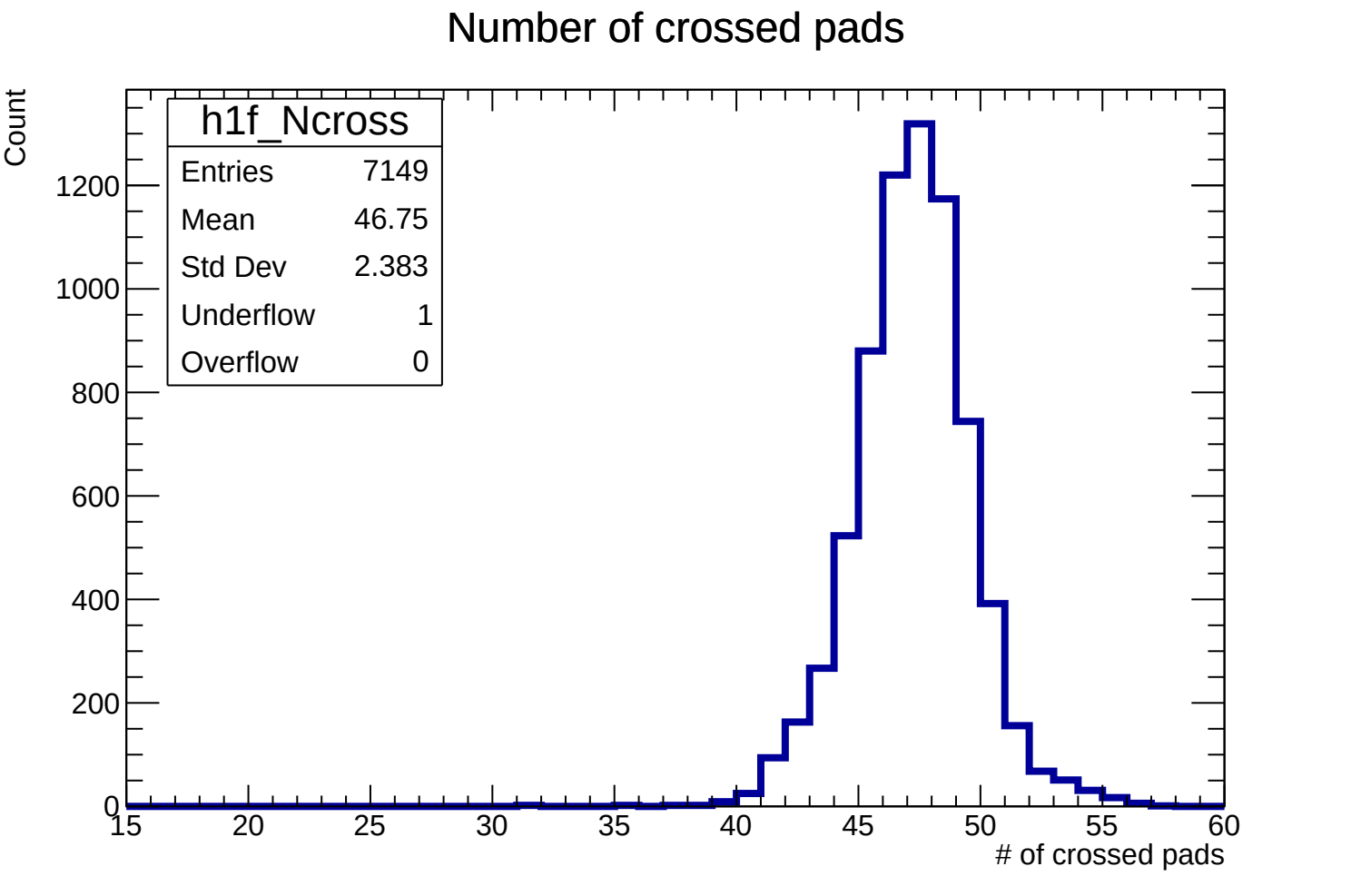
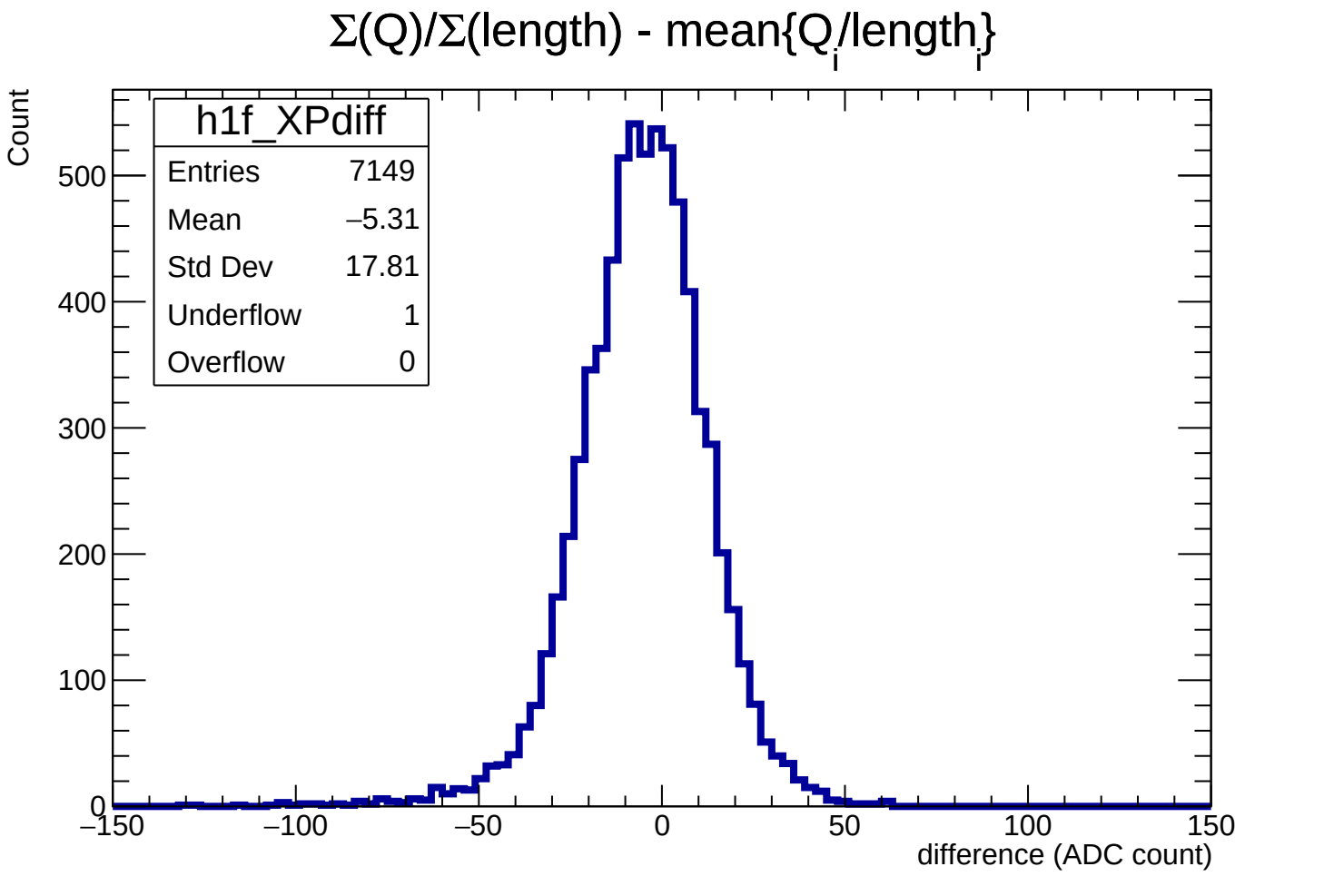
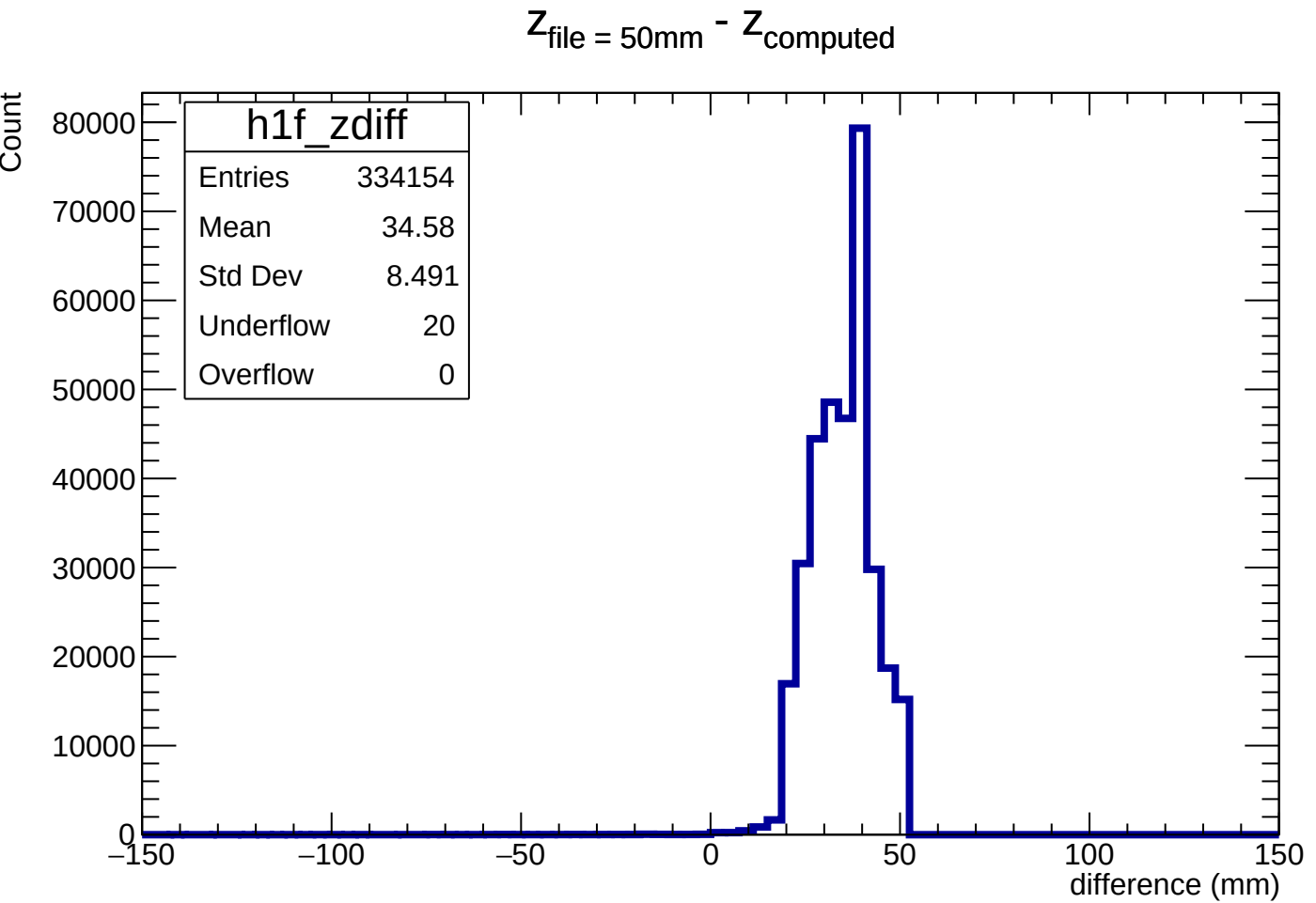
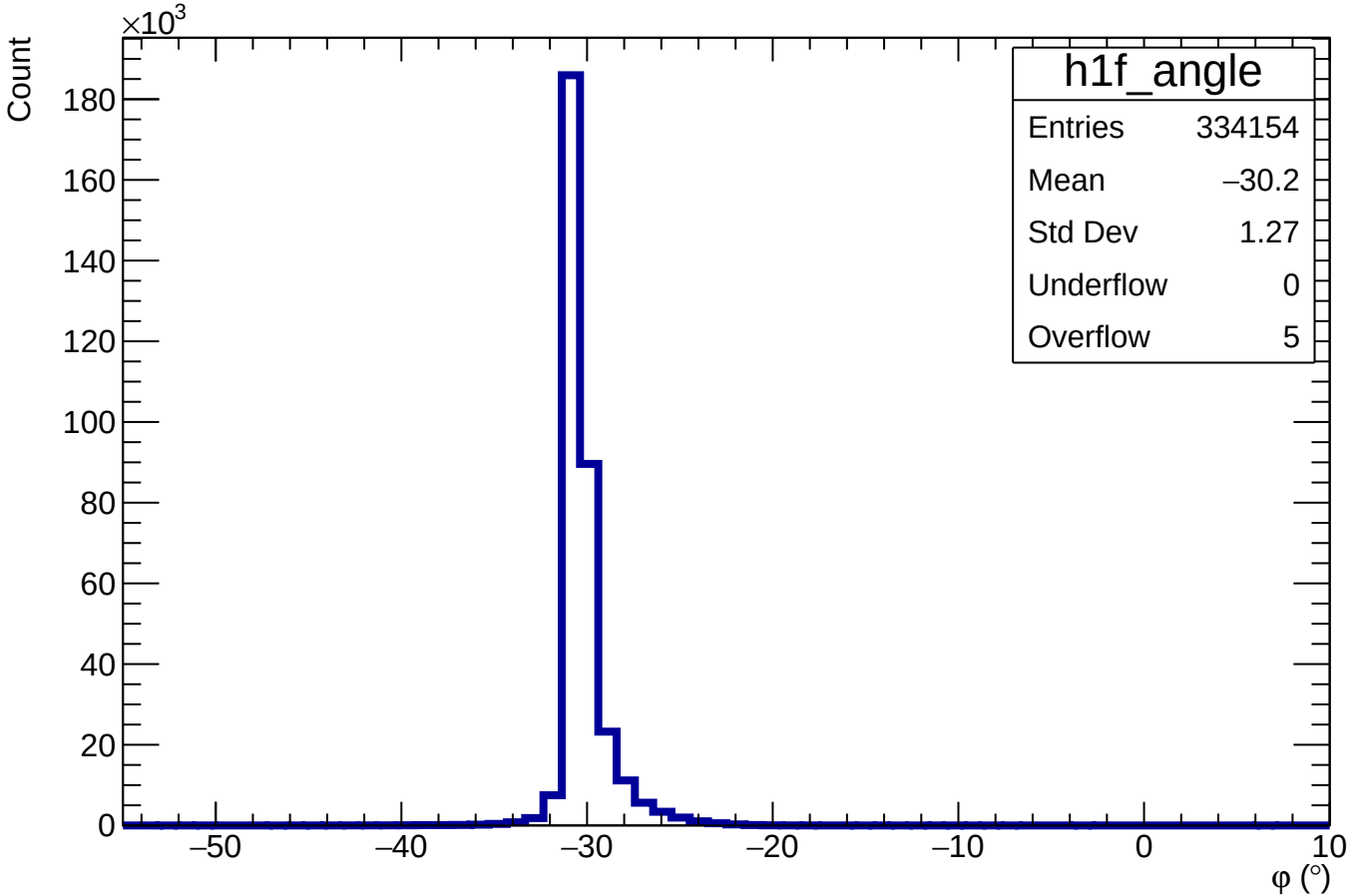
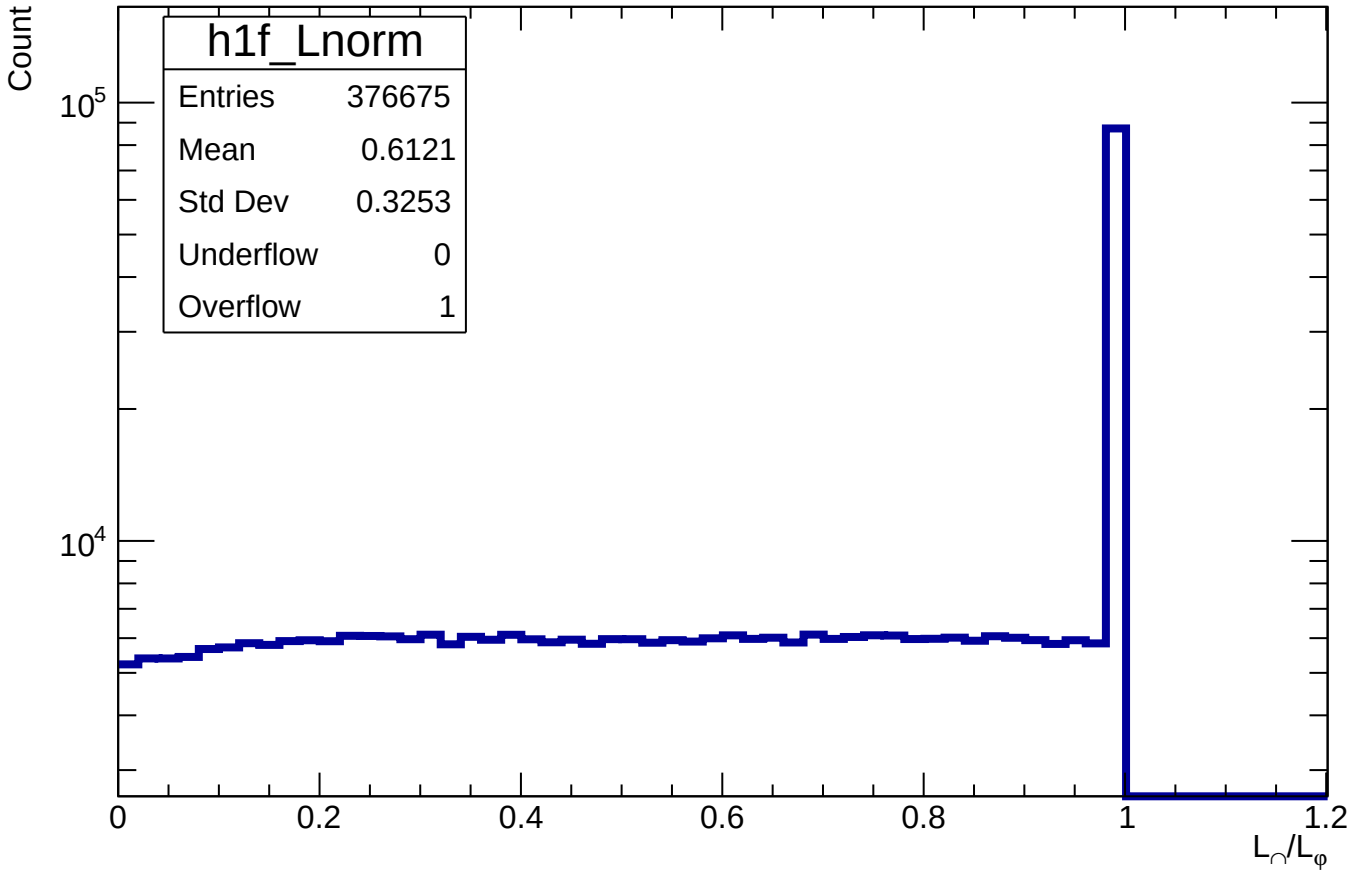

T_{max} of crossed pads
h1f_Tcross
Entries 334154
Mean 52.91
Std Dev 2.881
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

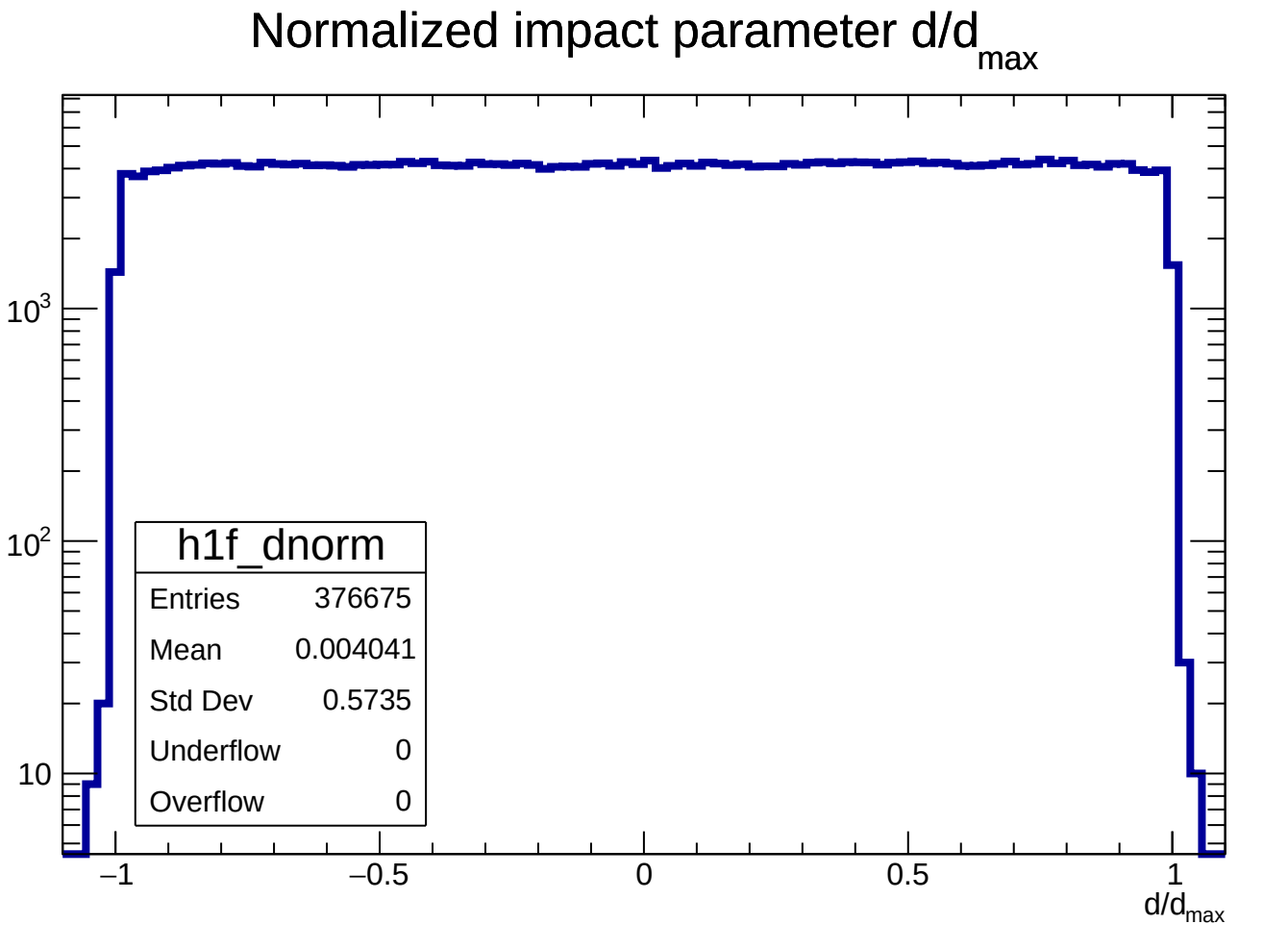

Number of crossed pads
h1f_Ncross
Entries 7149
Mean 46.75
Std Dev 2.383
Underflow 1
Overflow 0
Count
0
200
400
600
800
1000
1200
15
20
25
30
35
40
45
50
55
60
# of crossed pads

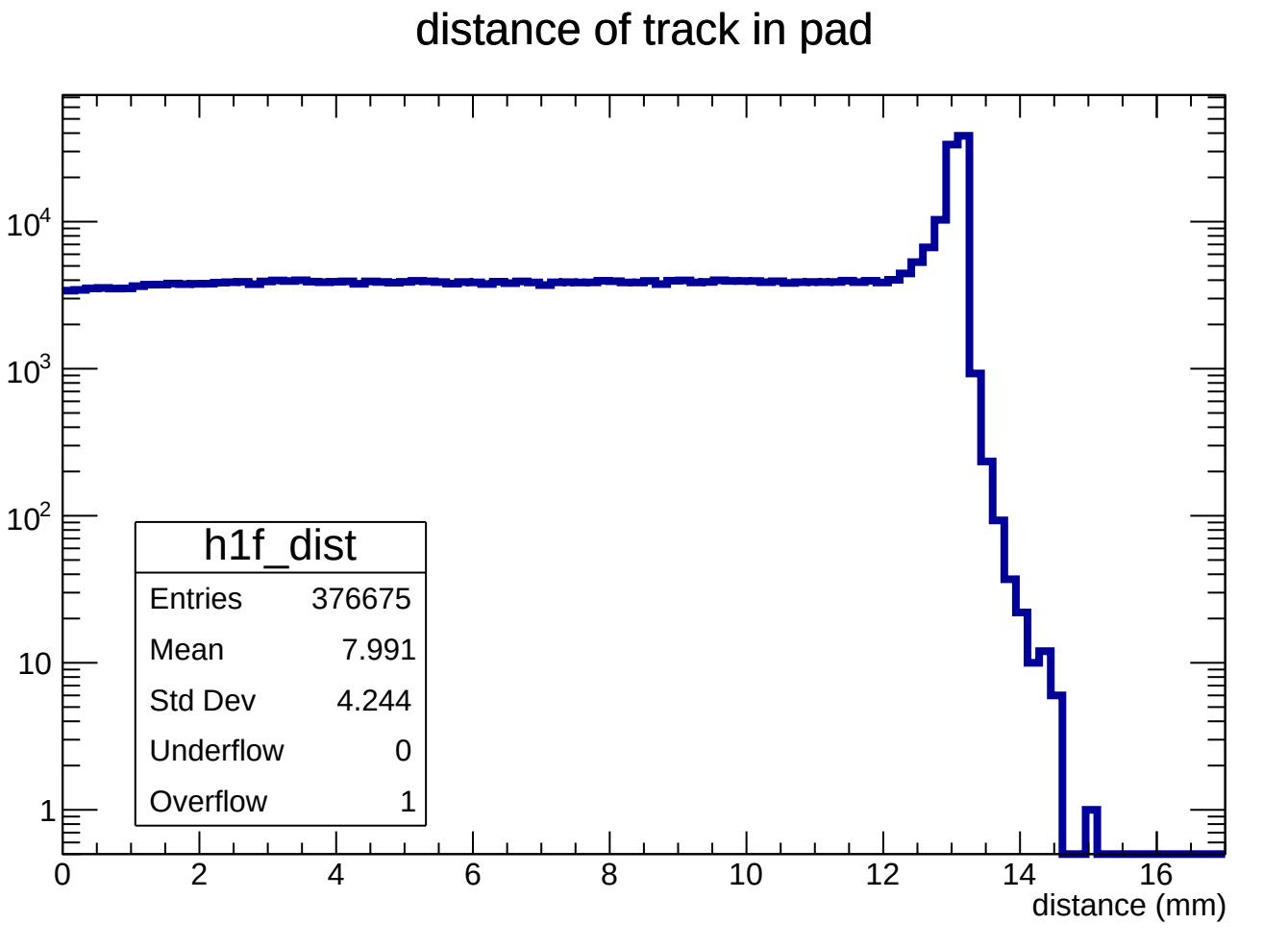

Σ(Q)/Σ(length) - mean{Q_i/length_i}
Count
h1f_XPdiff
Entries 7149
Mean –5.31
Std Dev 17.81
Underflow 1
Overflow 0
500
400
300
200
100
0
–150
–100
–50
0
50
100
150
difference (ADC count)

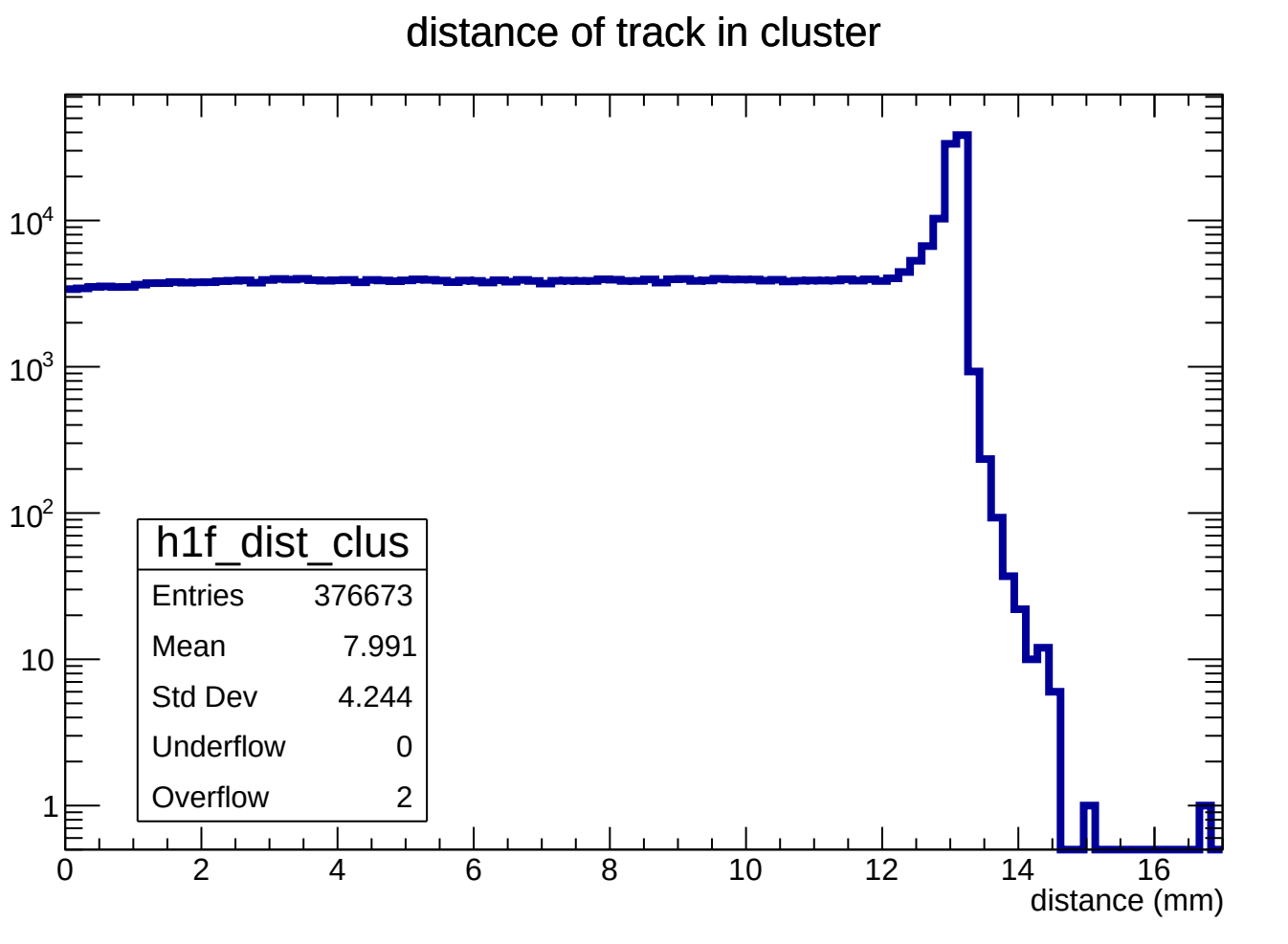

$z_{file = 50mm} - z_{computed}$
h1f_zdiff
Entries 334154
Mean 34.58
Std Dev 8.491
Underflow 20
Overflow 0
Count
80000
70000
60000
50000
40000
30000
20000
10000
0
–150
–100
–50
0
50
100
150
difference (mm)

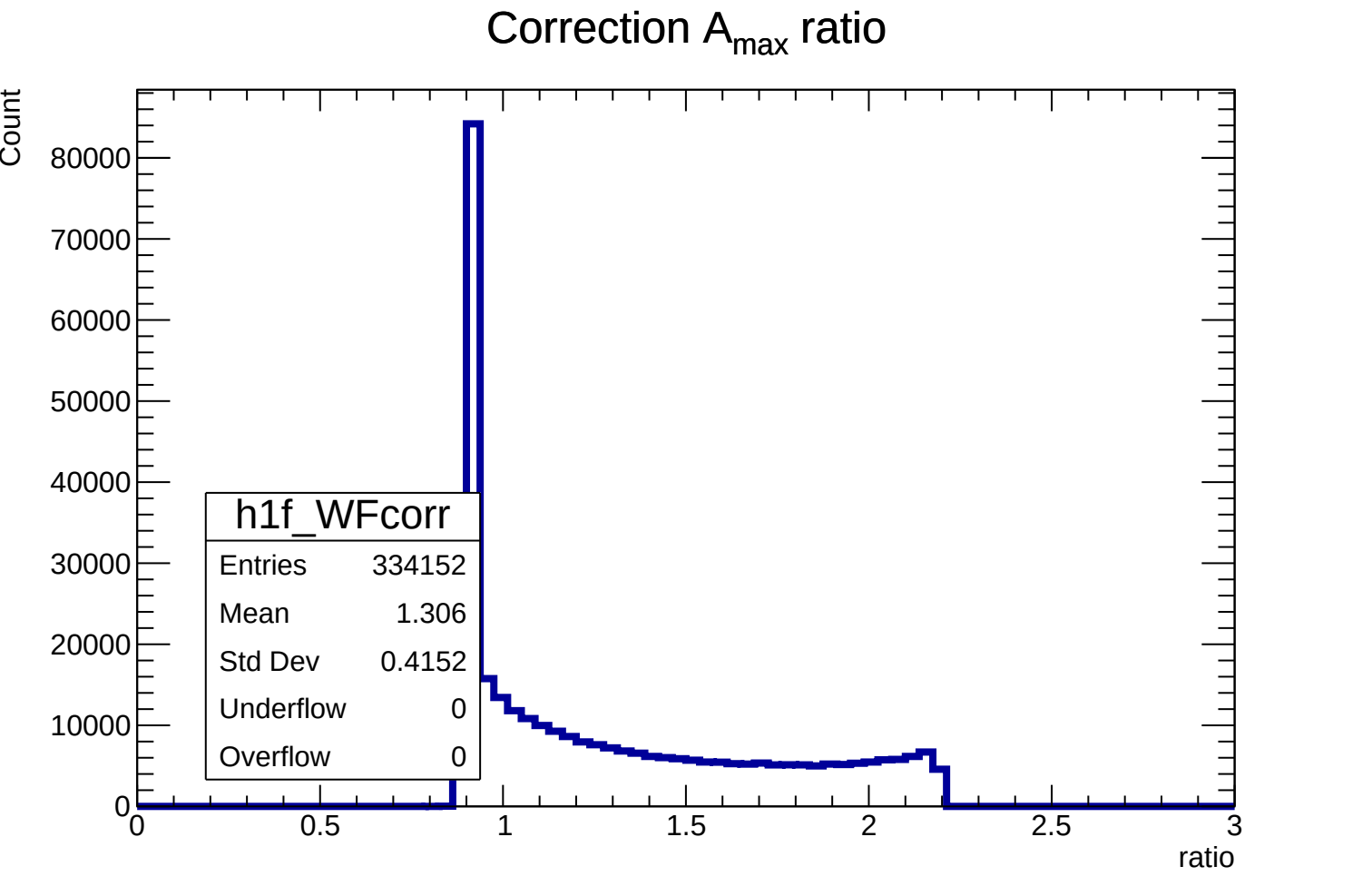

Angle φ in each pad
×10^3
Count
180
160
140
120
100
80
60
40
20
0
h1f_angle
Entries 334154
Mean −30.2
Std Dev 1.27
Underflow 0
Overflow 5
−50
−40
−30
−20
−10
0
10
φ (°)

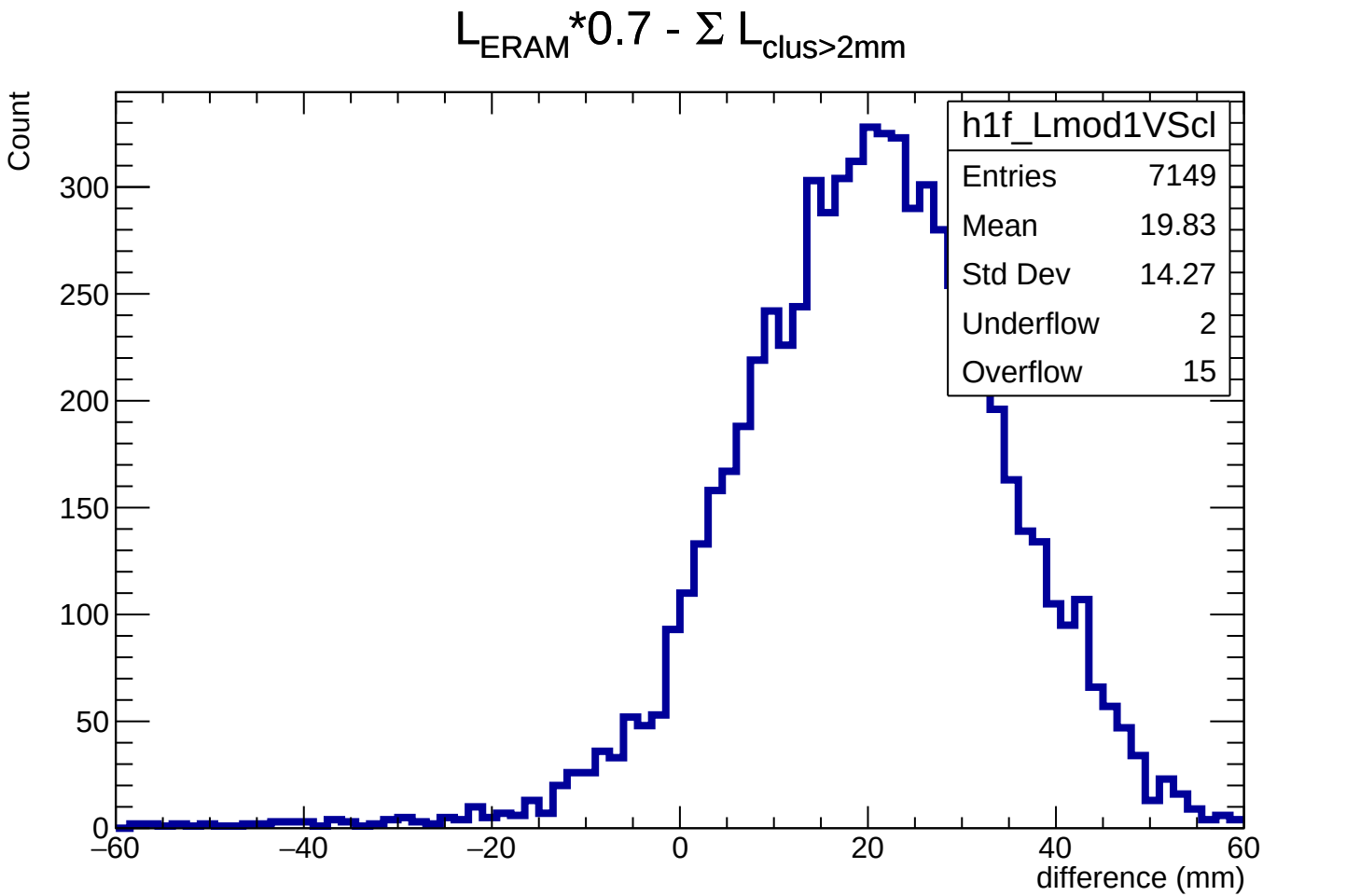

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 376675
Mean 0.6121
Std Dev 0.3253
Underflow 0
Overflow 1
Count
10^5
10^4
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

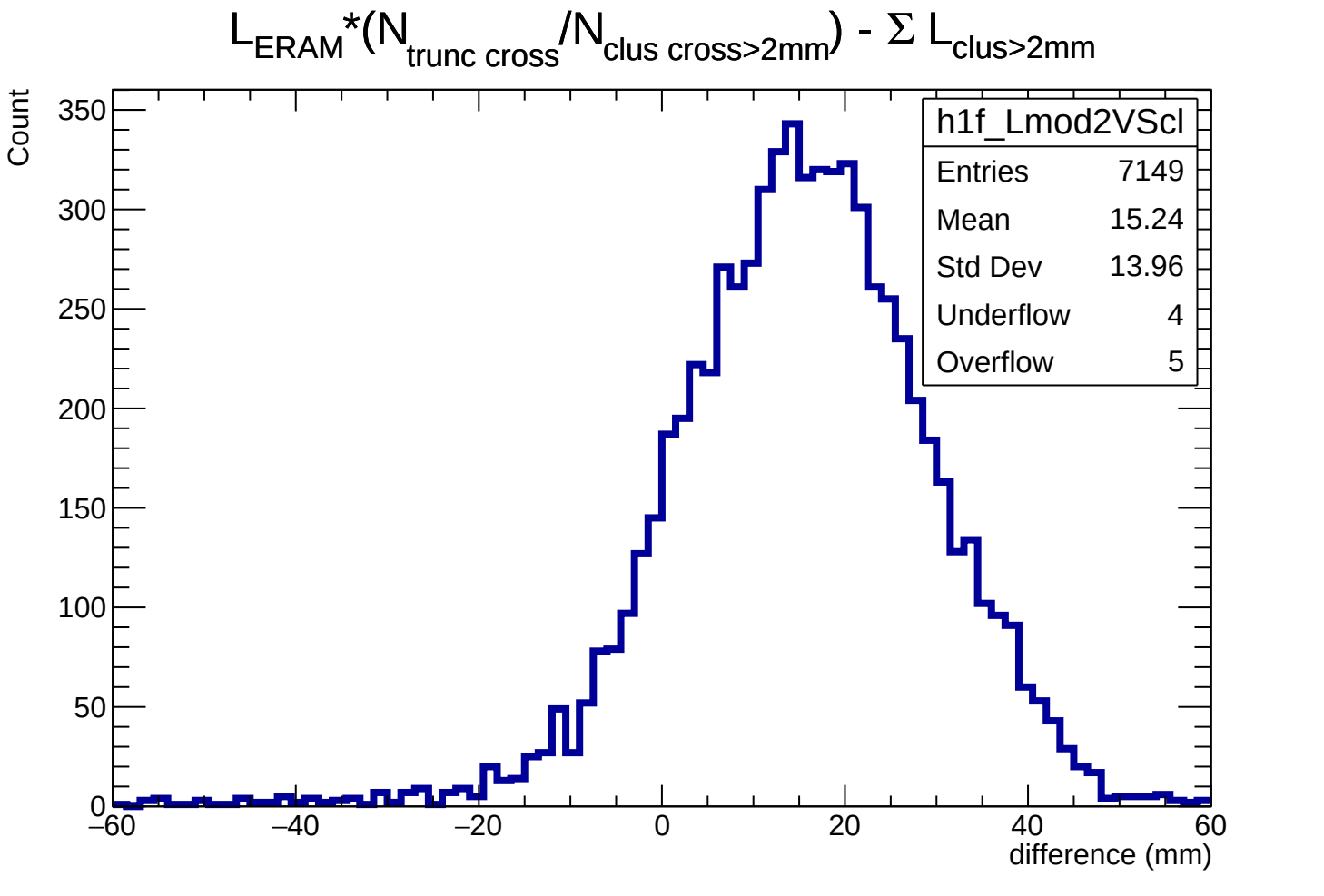

Normalized impact parameter d/d max
10 3
10 2
10
h1f_dnorm
Entries 376675
Mean 0.004041
Std Dev 0.5735
Underflow 0
Overflow 0
–1
–0.5
0
0.5
1
d/d max

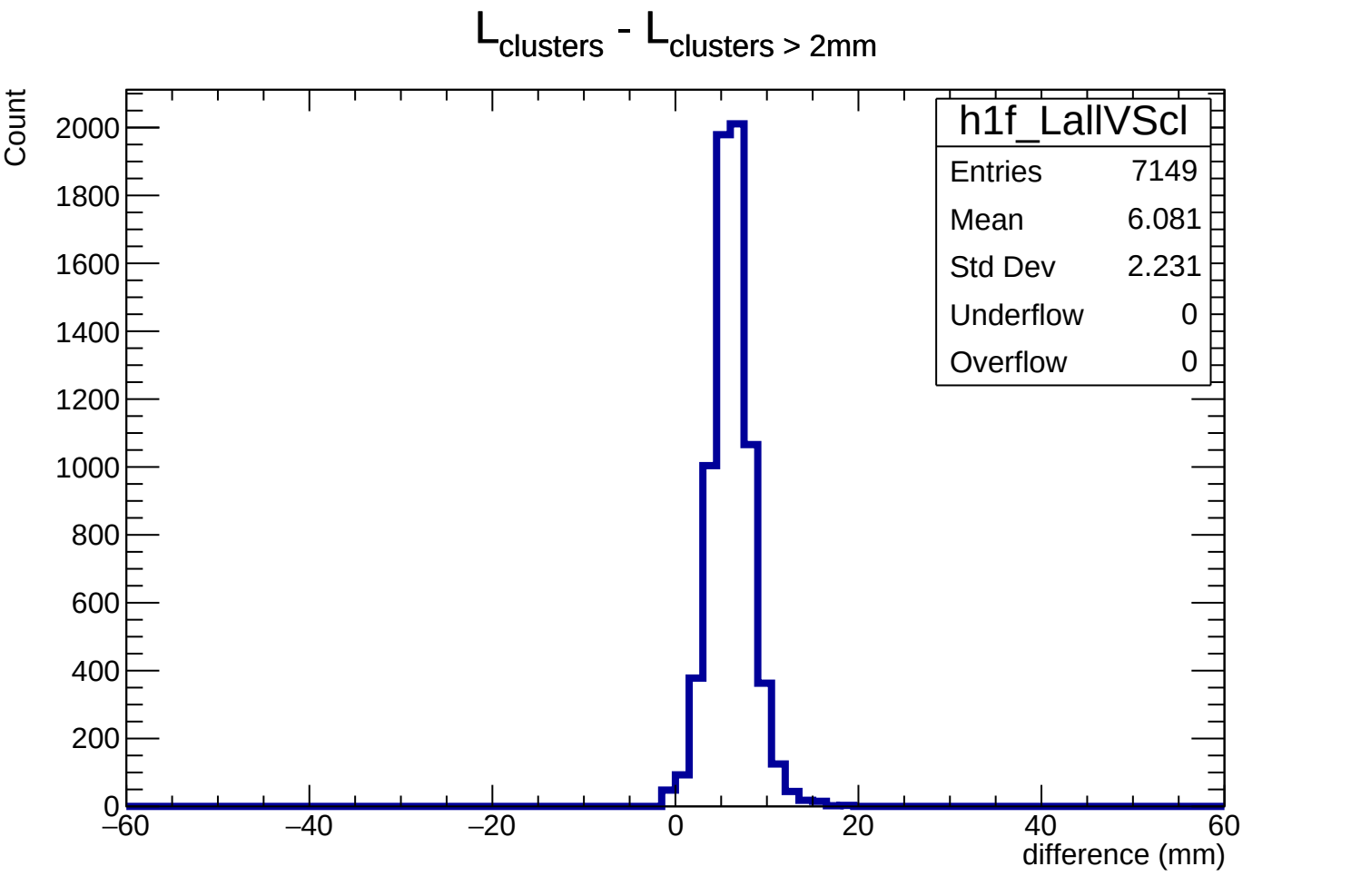

distance of track in pad
h1f_dist
Entries 376675
Mean 7.991
Std Dev 4.244
Underflow 0
Overflow 1
10^4
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
distance (mm)

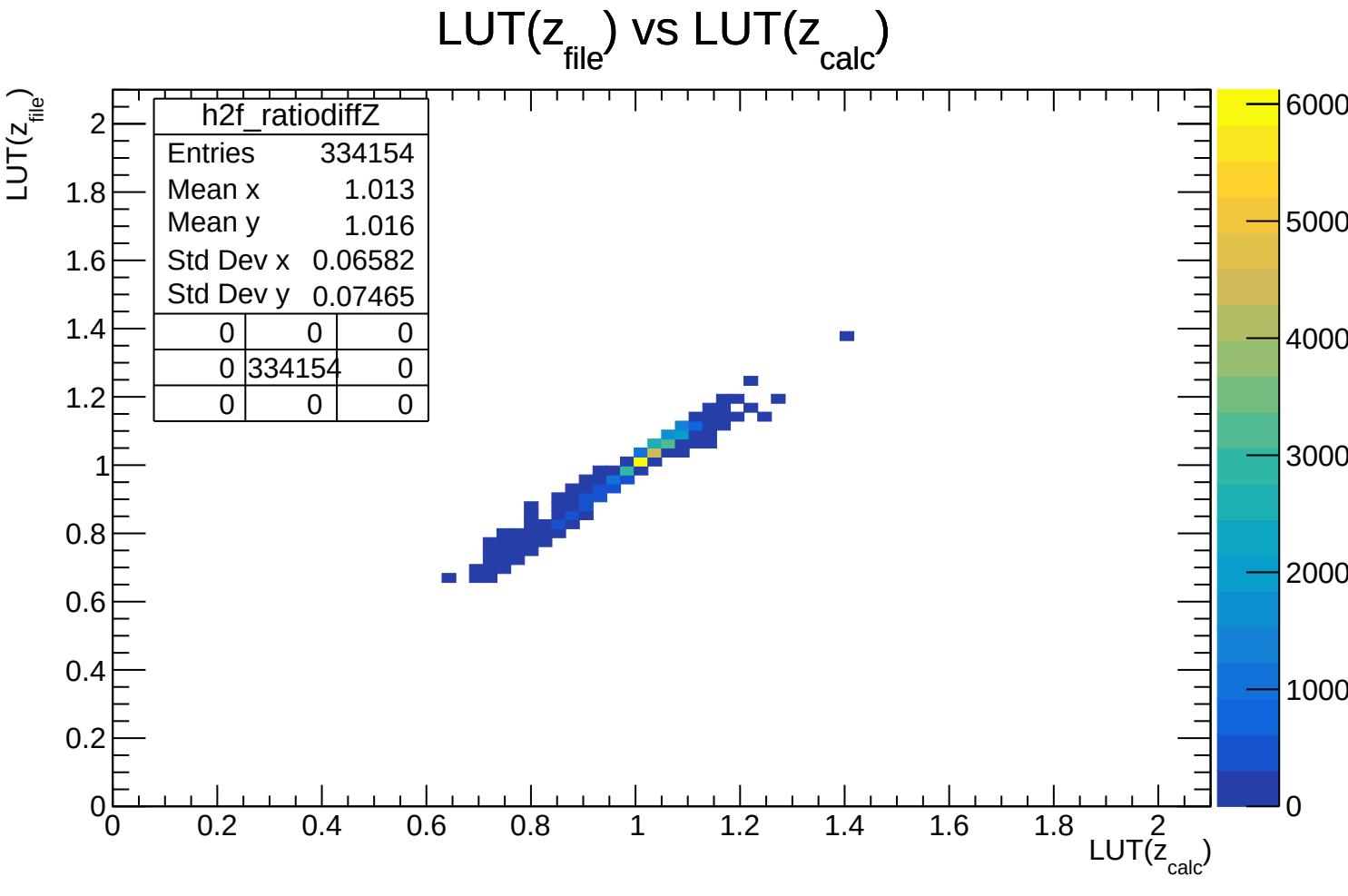

distance of track in cluster
10^4
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
distance (mm)
h1f_dist_clus
Entries 376673
Mean 7.991
Std Dev 4.244
Underflow 0
Overflow 2

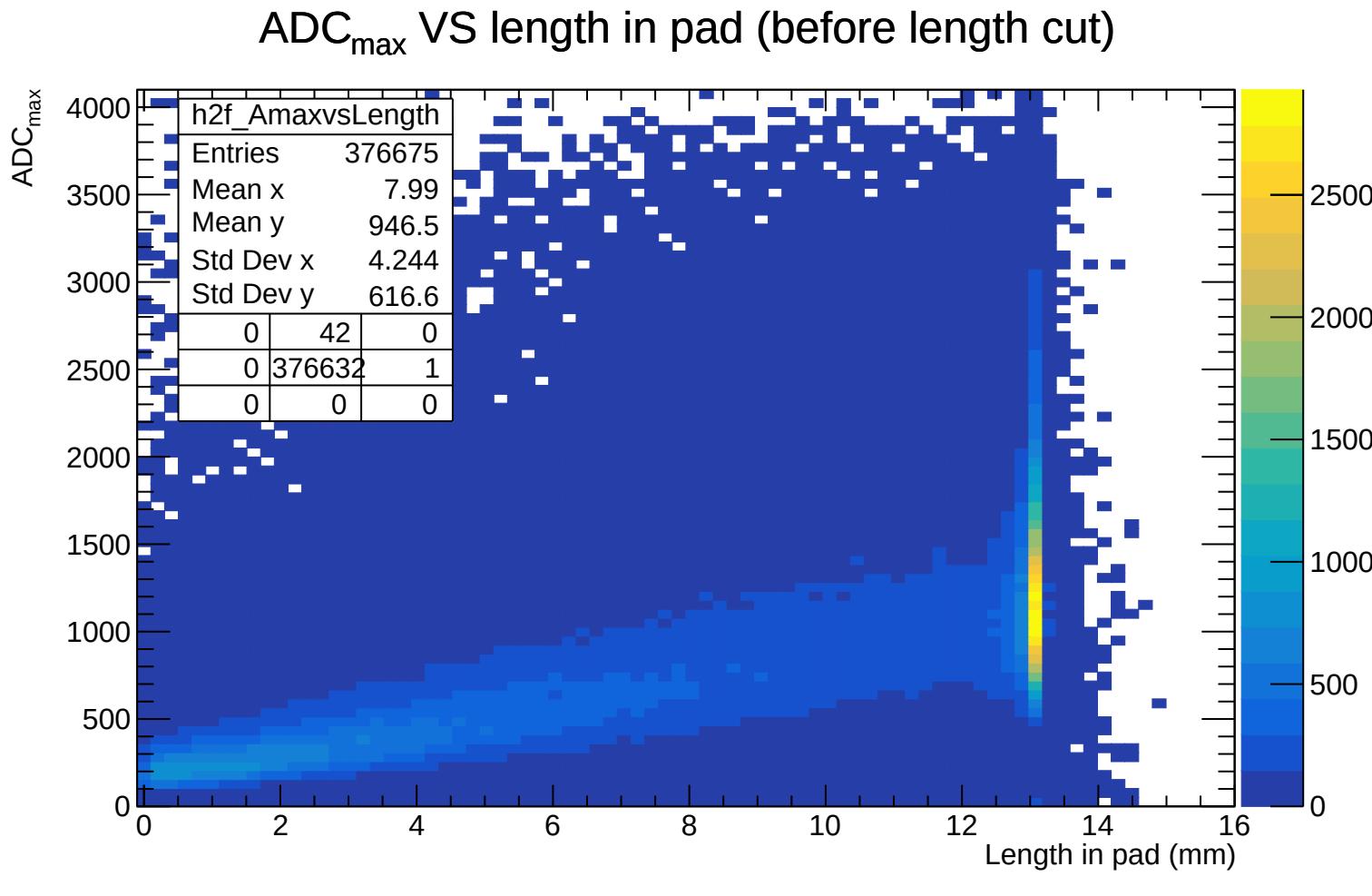

Correction A_{max} ratio
Count
80000
70000
60000
50000
40000
30000
20000
10000
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 334152
Mean 1.306
Std Dev 0.4152
Underflow 0
Overflow 0

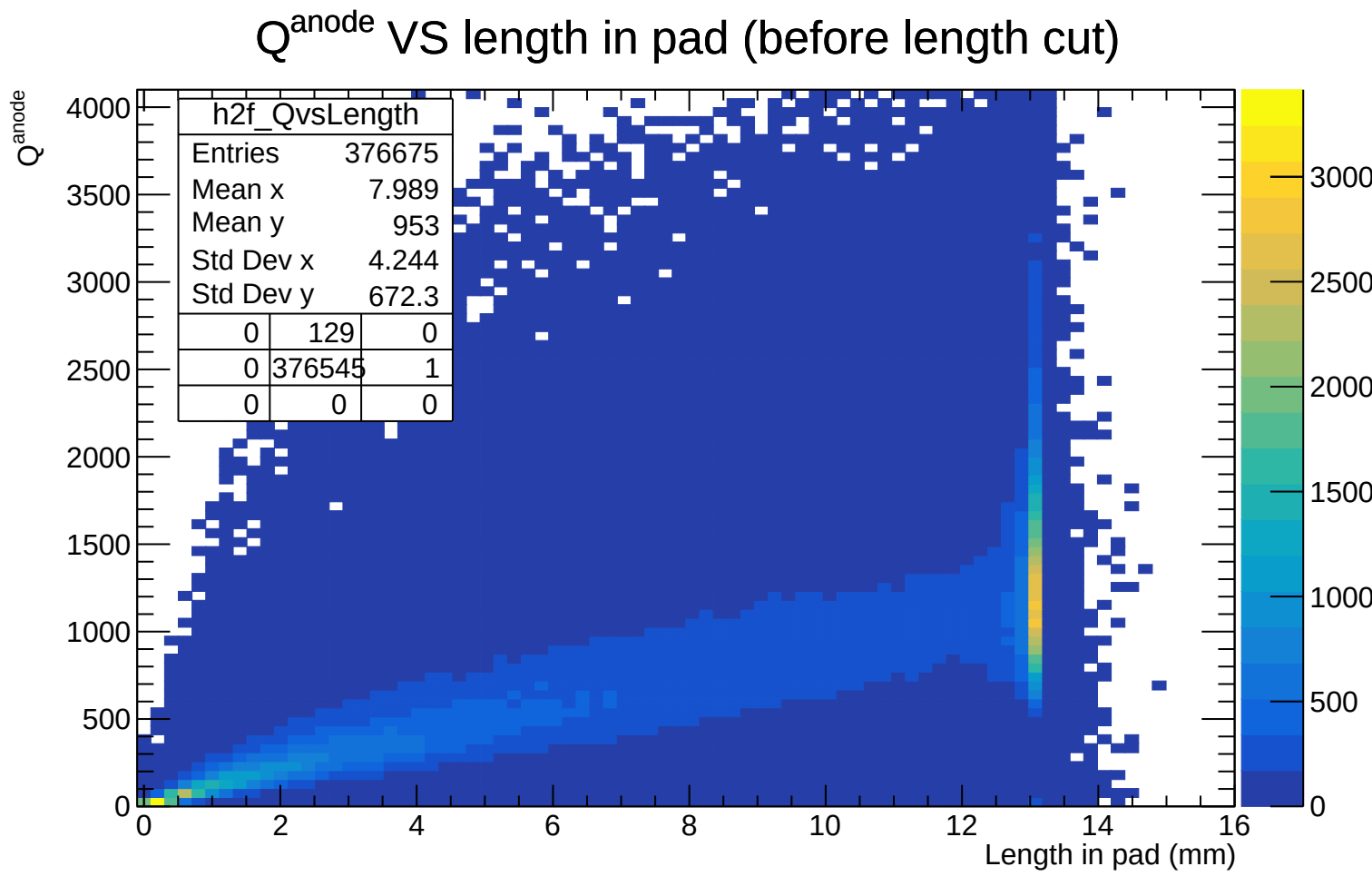

L_{ERAM}*0.7 - Σ $L_{clus>2mm}$
Count
h1f_Lmod1VScl
Entries 7149
Mean 19.83
Std Dev 14.27
Underflow 2
Overflow 15
300
250
200
150
100
50
0
–60
–40
–20
0
20
40
60
difference (mm)

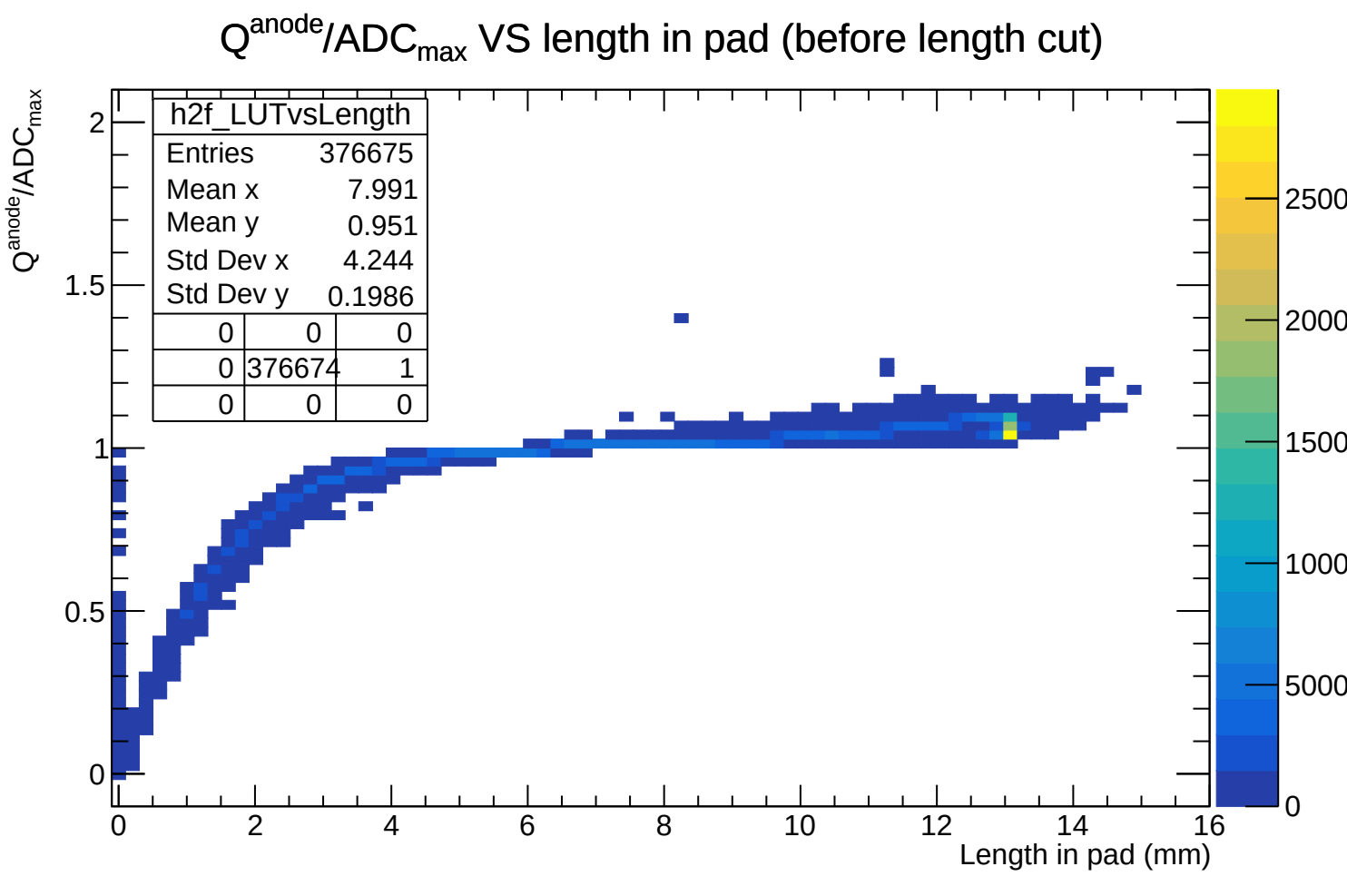

$L_{ERAM}*(N_{trunc\ cross}/N_{clus\ cross>2mm}) - \Sigma\ L_{clus>2mm}$
Count
h1f_Lmod2VScl
Entries 7149
Mean 15.24
Std Dev 13.96
Underflow 4
Overflow 5
350
300
250
200
150
100
50
0
−60
−40
−20
0
20
40
60
difference (mm)

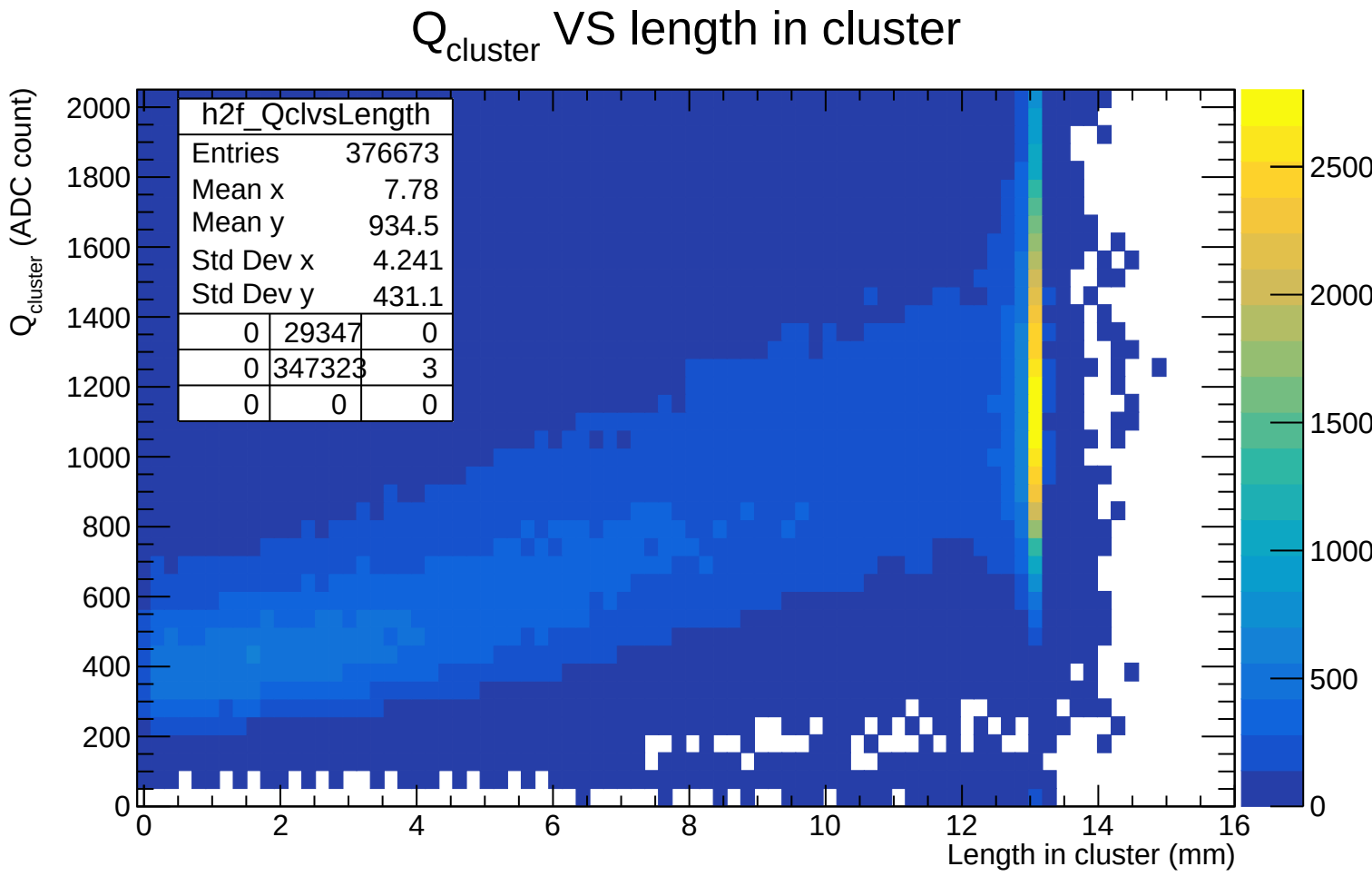

L clusters - L clusters > 2mm
Count
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_LallVScl
Entries 7149
Mean 6.081
Std Dev 2.231
Underflow 0
Overflow 0

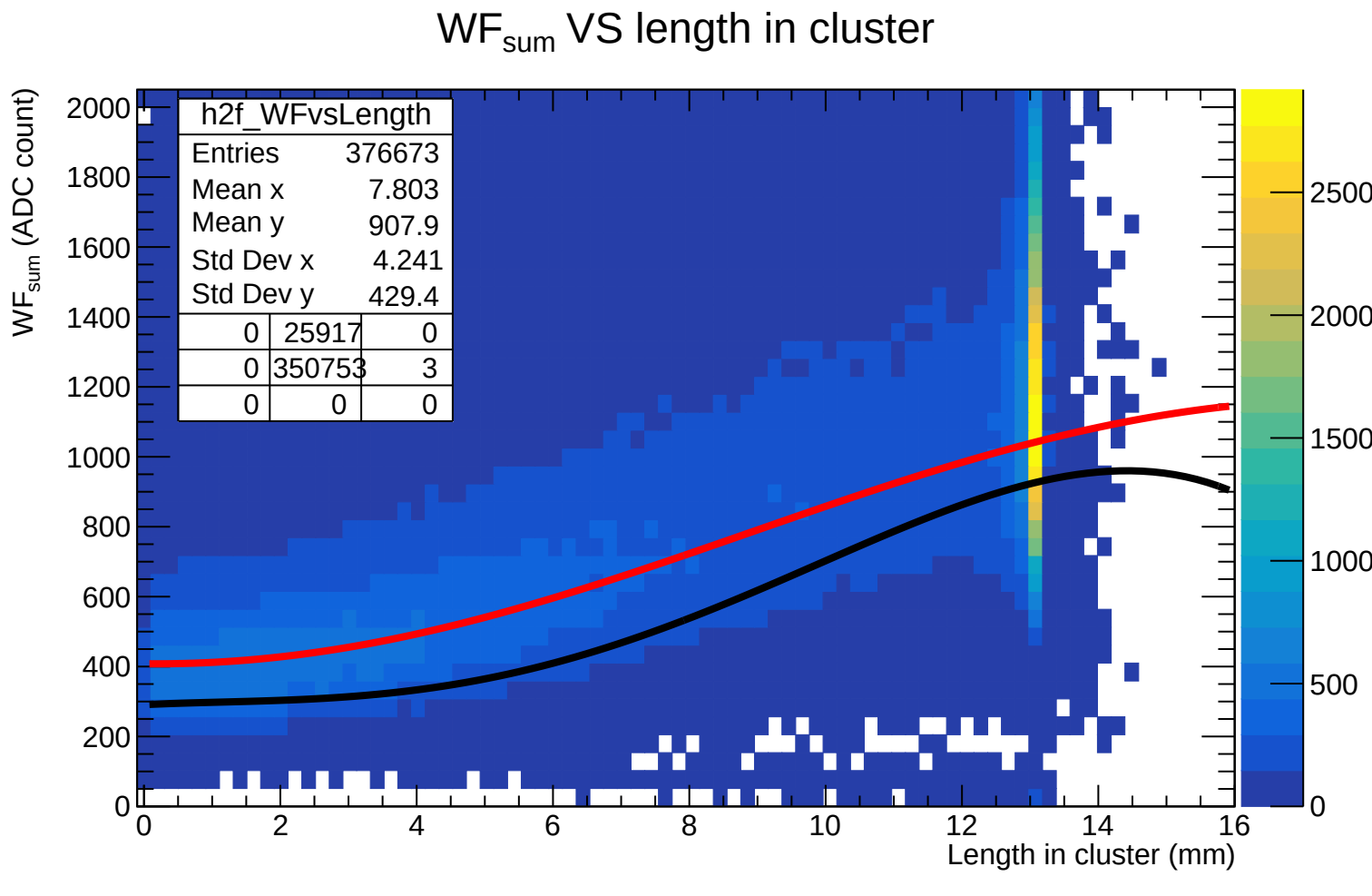

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 334154
Mean x 1.013
Mean y 1.016
Std Dev x 0.06582
Std Dev y 0.07465
0 0 0
0 334154 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 1000 2000 3000 4000 5000 6000

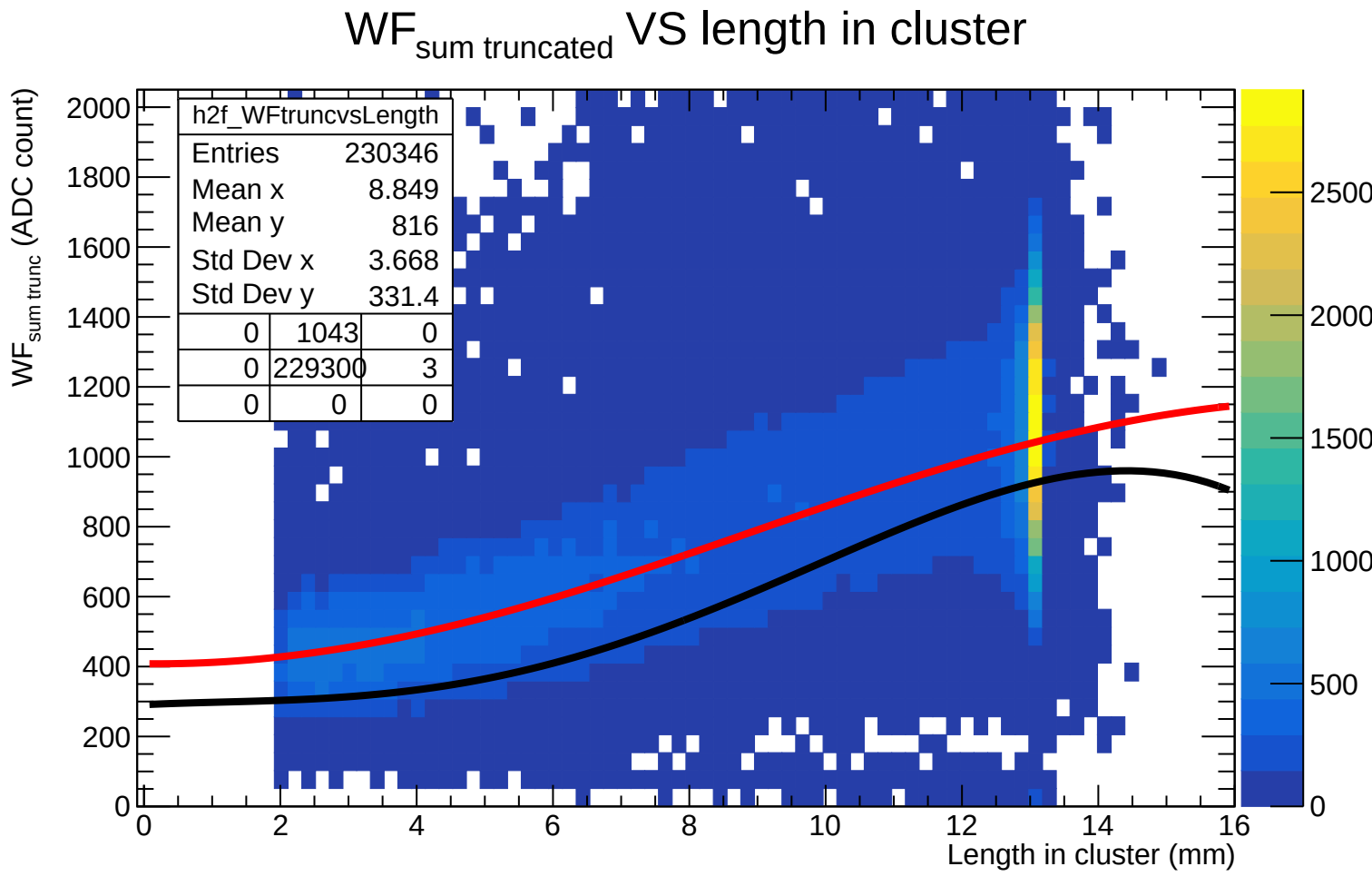

ADC$_{max}$ VS length in pad (before length cut)
ADC$_{max}$
Length in pad (mm)
h2f_AmaxvsLength
Entries 376675
Mean x 7.99
Mean y 946.5
Std Dev x 4.244
Std Dev y 616.6
0 42 0
0 376632 1
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 500 1000 1500 2000 2500

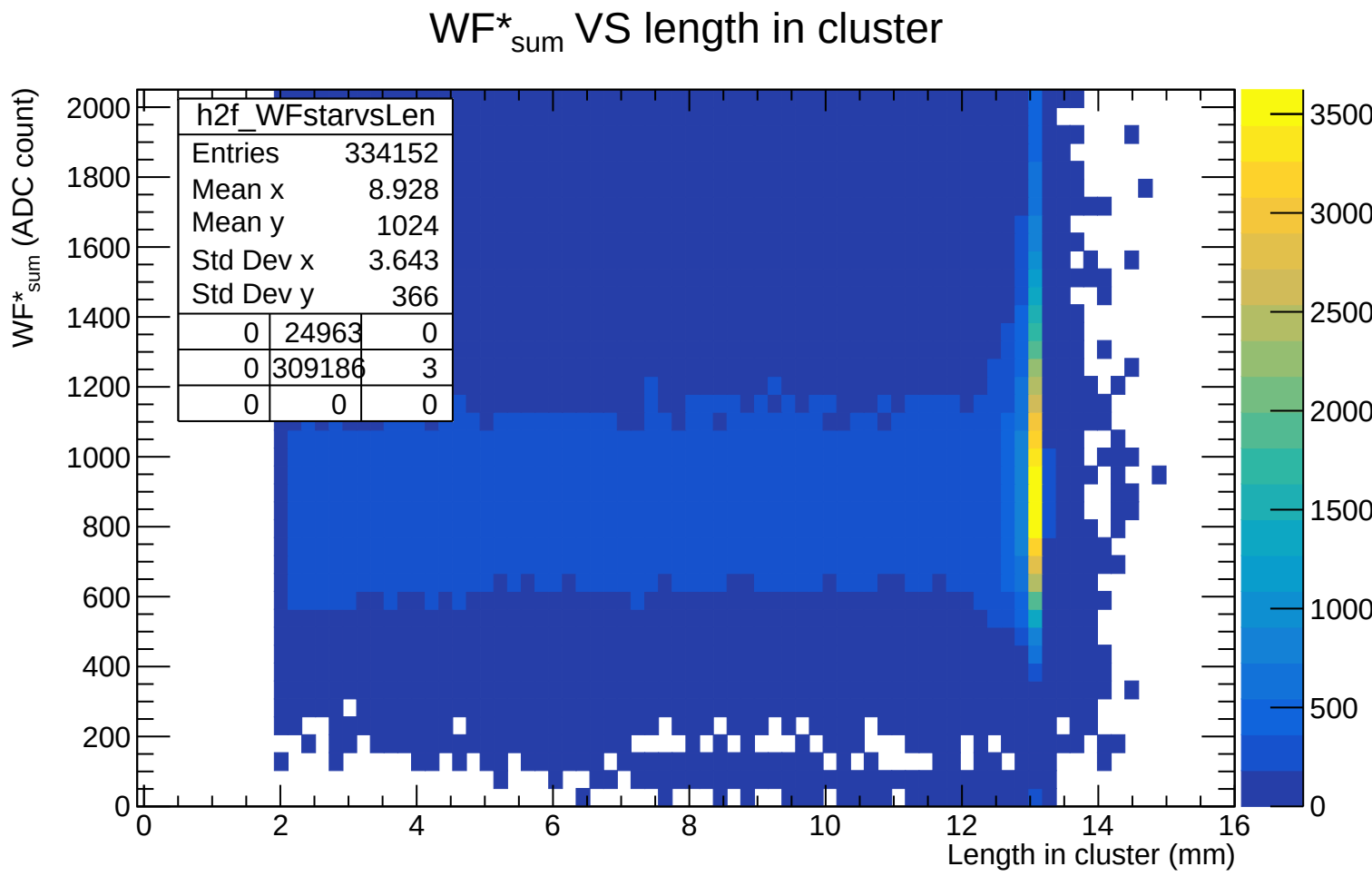

Q^anode VS length in pad (before length cut)
Q^anode
Length in pad (mm)
h2f_QvsLength
Entries 376675
Mean x 7.989
Mean y 953
Std Dev x 4.244
Std Dev y 672.3
0 129 0
0 376545 1
0 0 0
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
0
500
1000
1500
2000
2500
3000

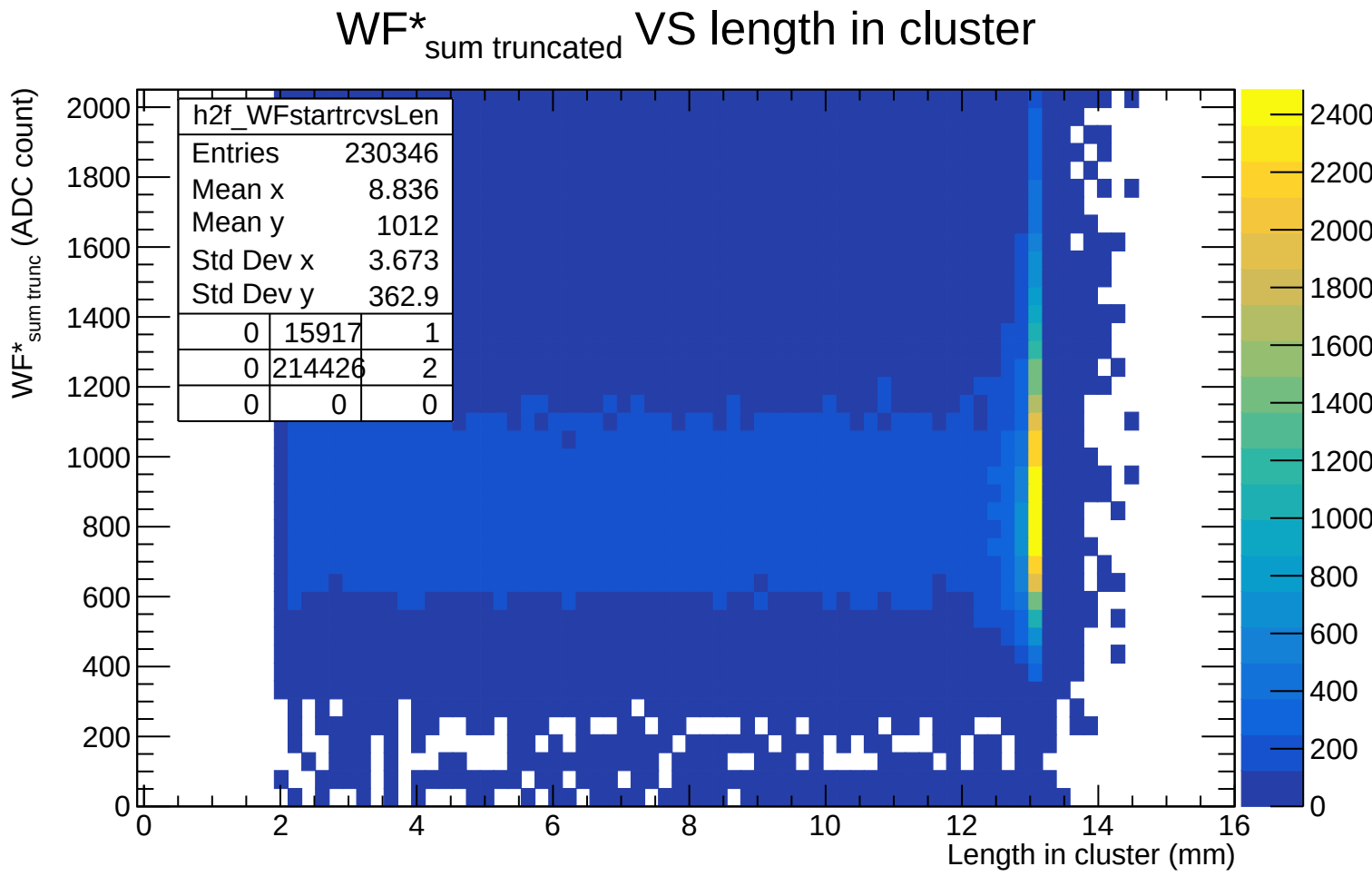

Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 376675
Mean x 7.991
Mean y 0.951
Std Dev x 4.244
Std Dev y 0.1986
0 0 0
0 376674 1
0 0 0
Q^{anode}/ADC_{max}
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
500
1000
1500
2000
2500

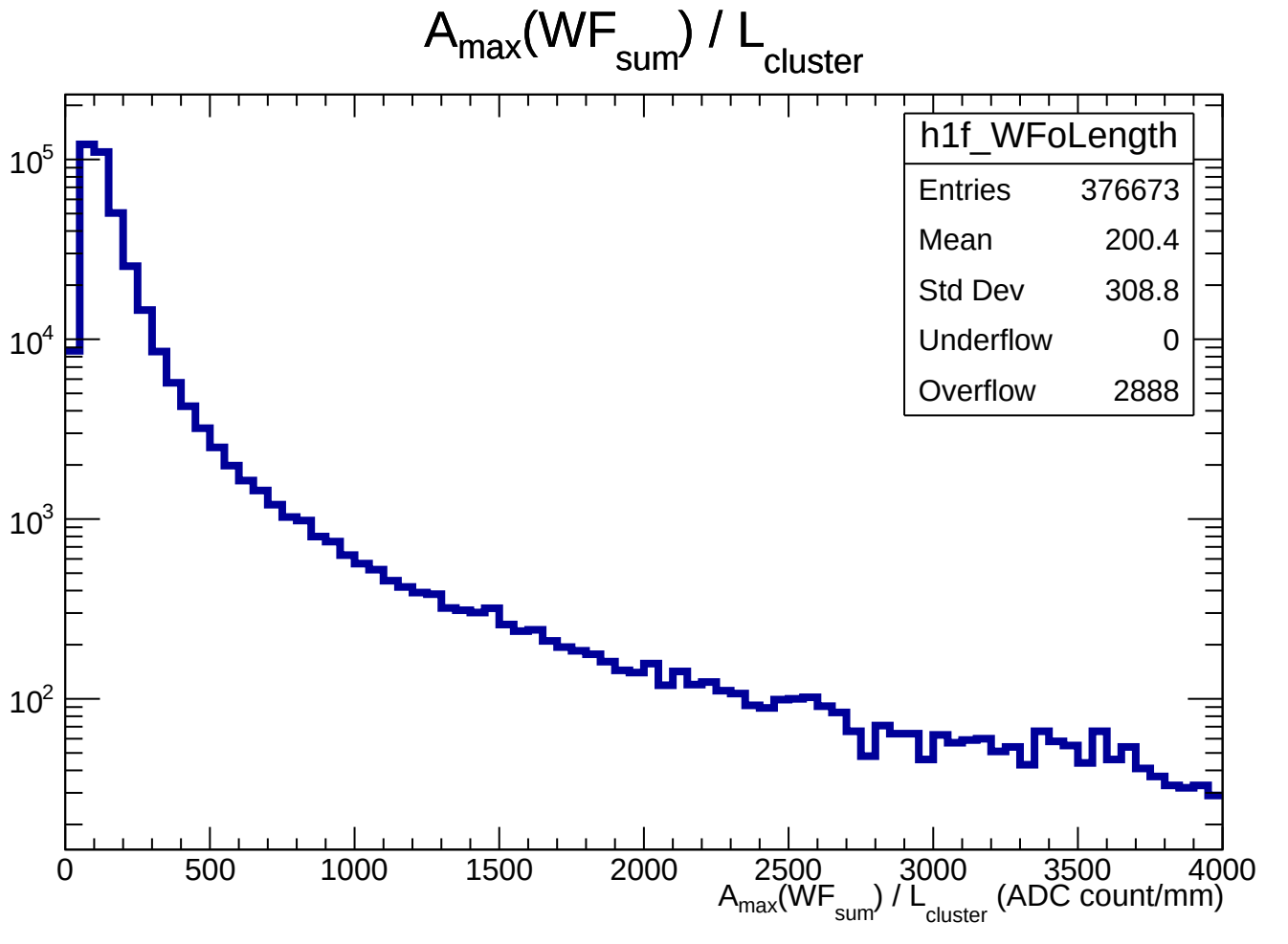

$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 376673
Mean x 7.78
Mean y 934.5
Std Dev x 4.241
Std Dev y 431.1
0 29347 0
0 347323 3
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
500
1000
1500
2000
2500

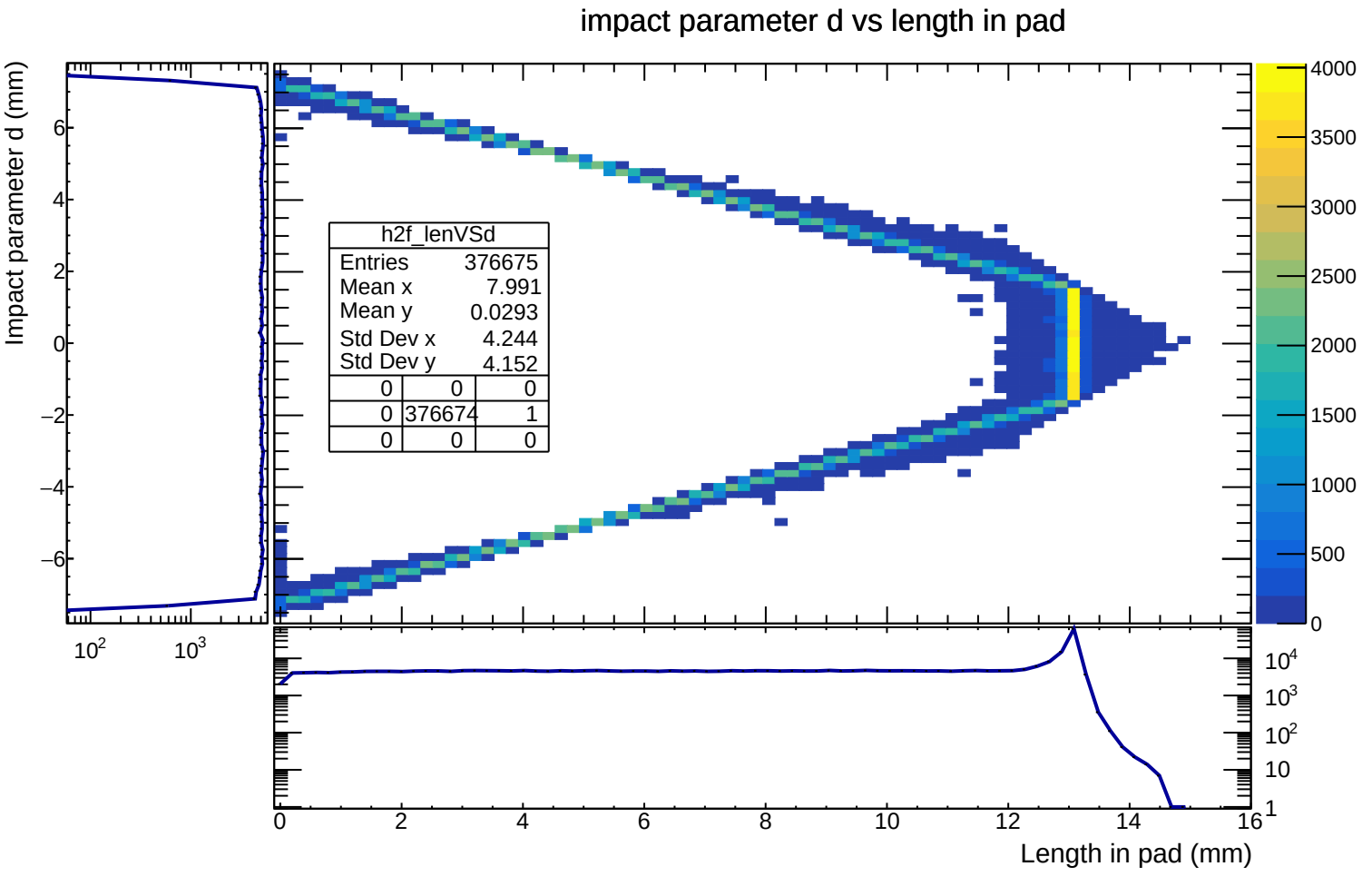

WF$_{sum}$ VS length in cluster
h2f_WFvsLength
Entries 376673
Mean x 7.803
Mean y 907.9
Std Dev x 4.241
Std Dev y 429.4
0 25917 0
0 350753 3
0 0 0
WF$_{sum}$ (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
500
1000
1500
2000
2500


WF sum truncated VS length in cluster
WF sum trunc (ADC count)
Length in cluster (mm)
h2f_WFtruncvsLength
Entries 230346
Mean x 8.849
Mean y 816
Std Dev x 3.668
Std Dev y 331.4
0 1043 0
0 229300 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
500
1000
1500
2000
2500


WF*sum VS length in cluster
WF*sum (ADC count)
Length in cluster (mm)
h2f_WFstarvsLen
Entries 334152
Mean x 8.928
Mean y 1024
Std Dev x 3.643
Std Dev y 366
0 24963 0
0 309186 3
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 500 1000 1500 2000 2500 3000 3500


WF*sum truncated VS length in cluster
WF*sum trunc (ADC count)
Length in cluster (mm)
h2f_WFstartrcvsLen
Entries 230346
Mean x 8.836
Mean y 1012
Std Dev x 3.673
Std Dev y 362.9
0 15917 1
0 214426 2
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 376673
Mean 200.4
Std Dev 308.8
Underflow 0
Overflow 2888
10^5
10^4
10^3
10^2
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 376675
Mean x 7.991
Mean y 0.0293
Std Dev x 4.244
Std Dev y 4.152
0 0 0
0 376674 1
0 0 0