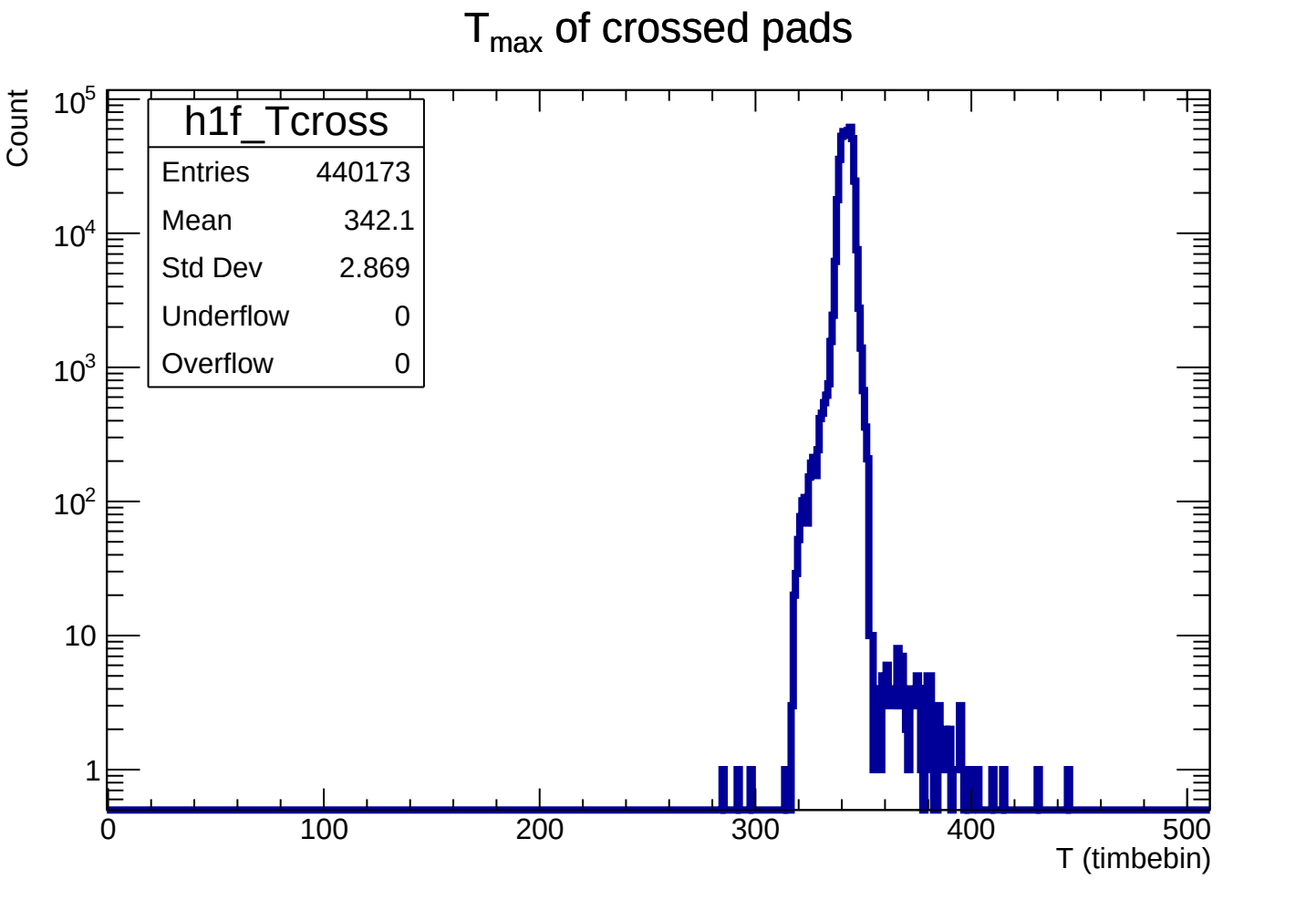
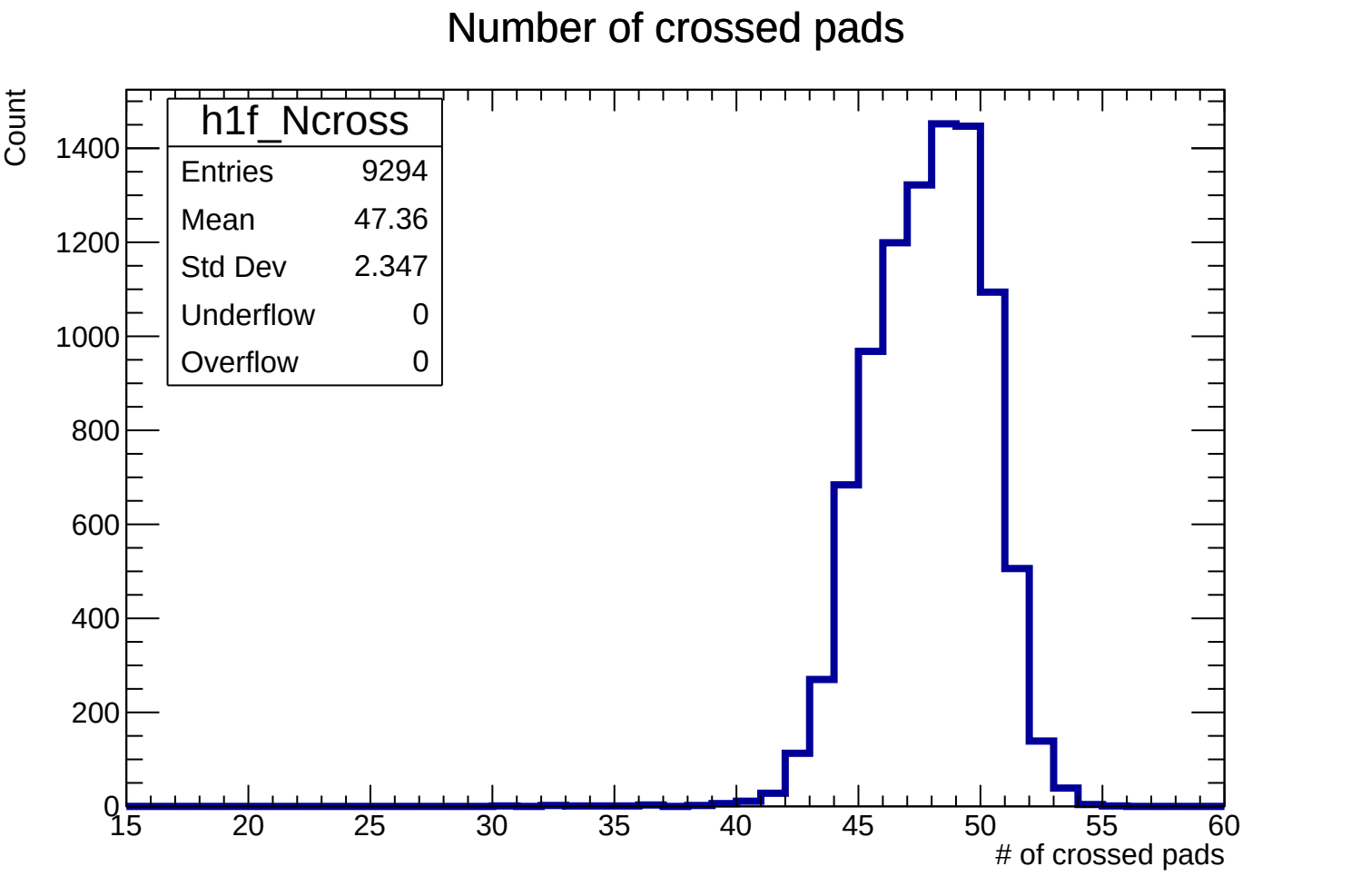
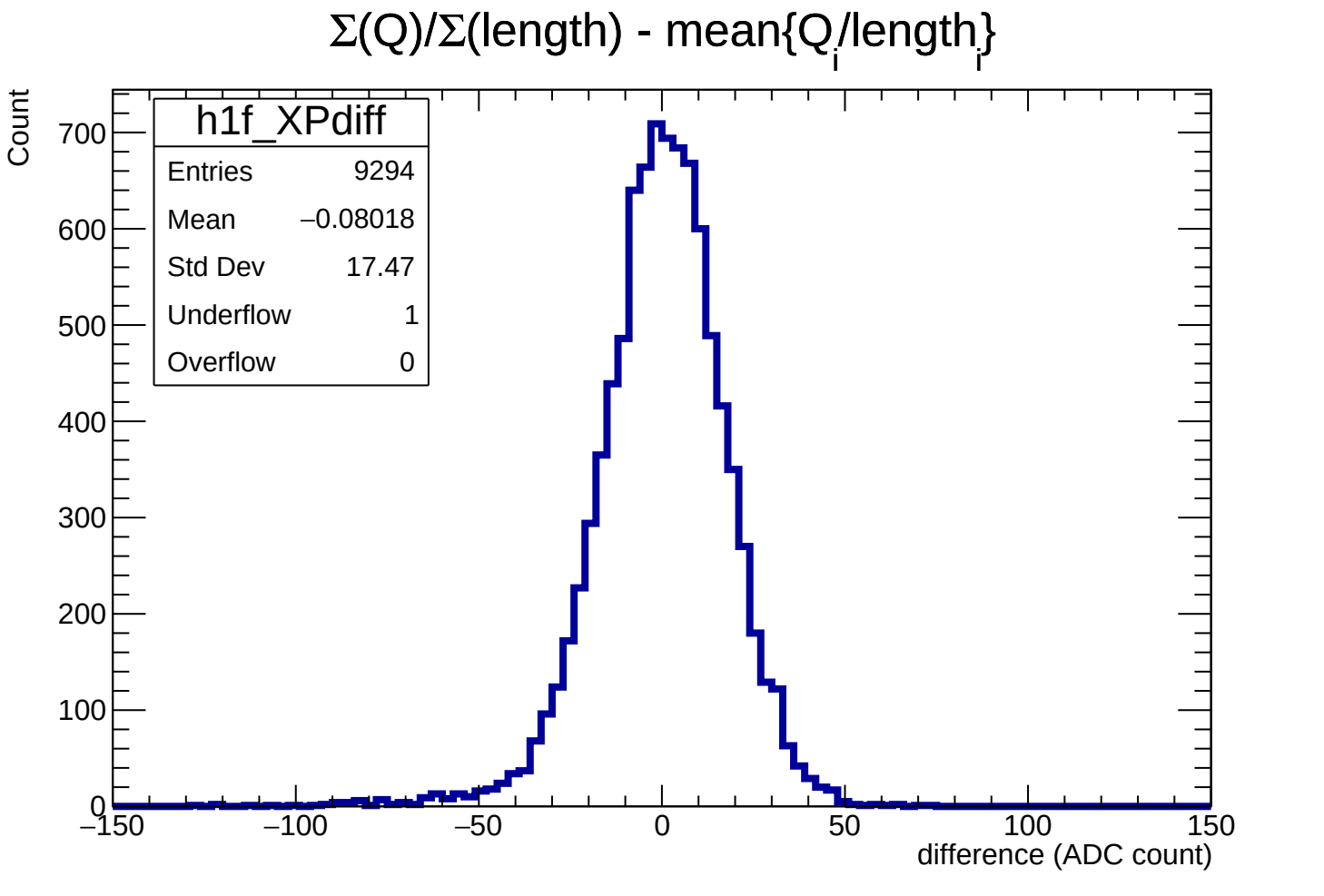
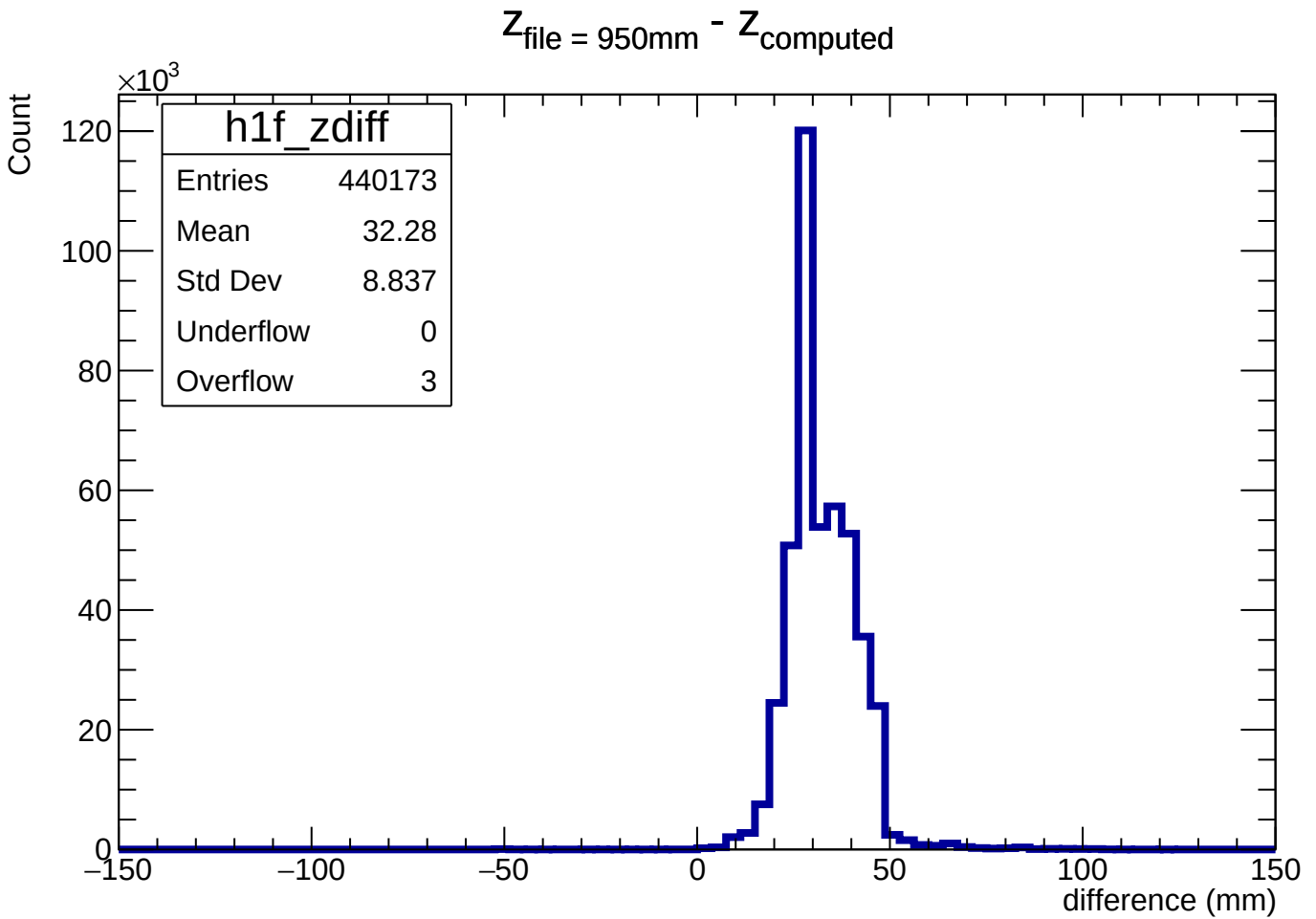
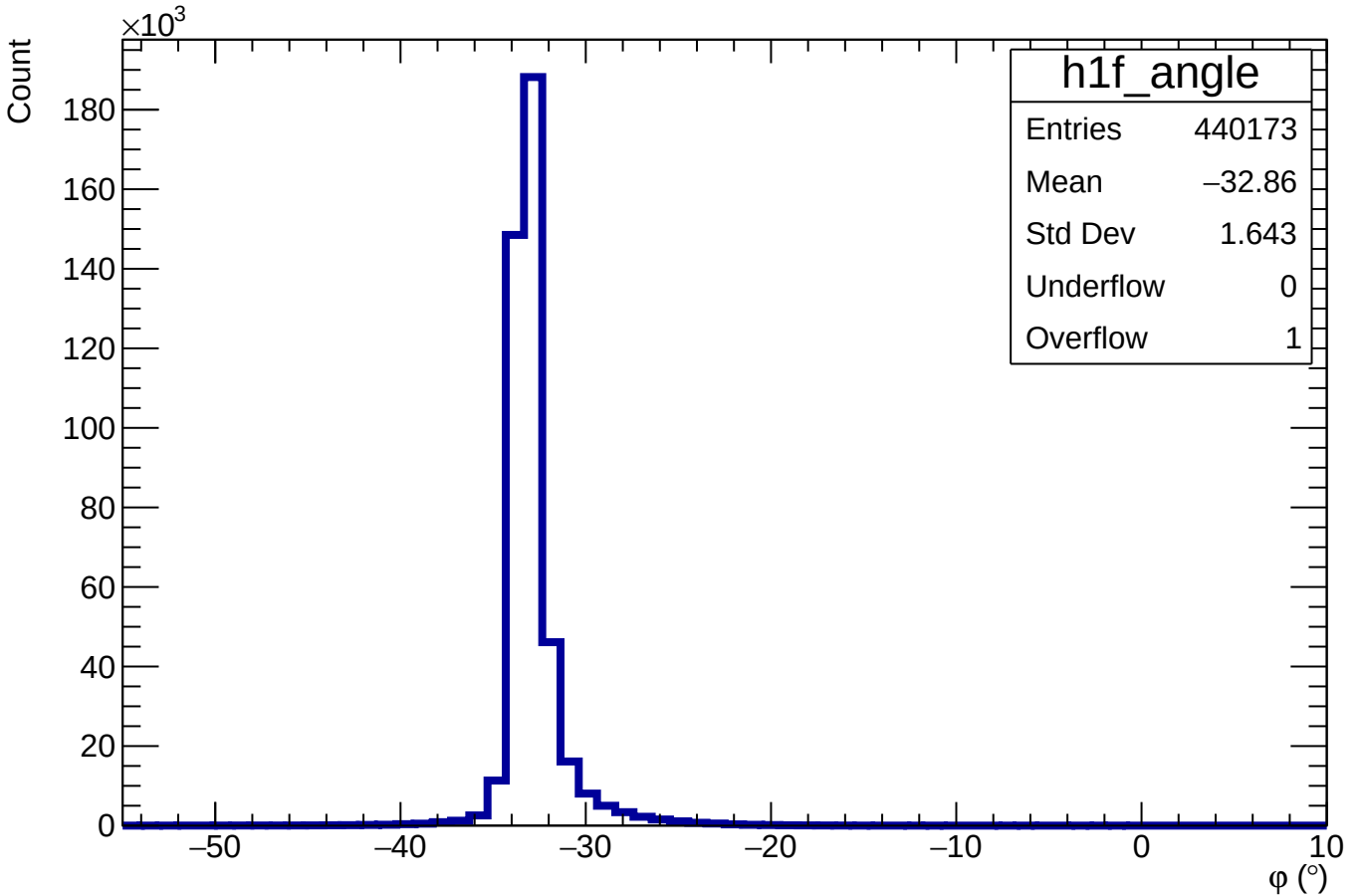
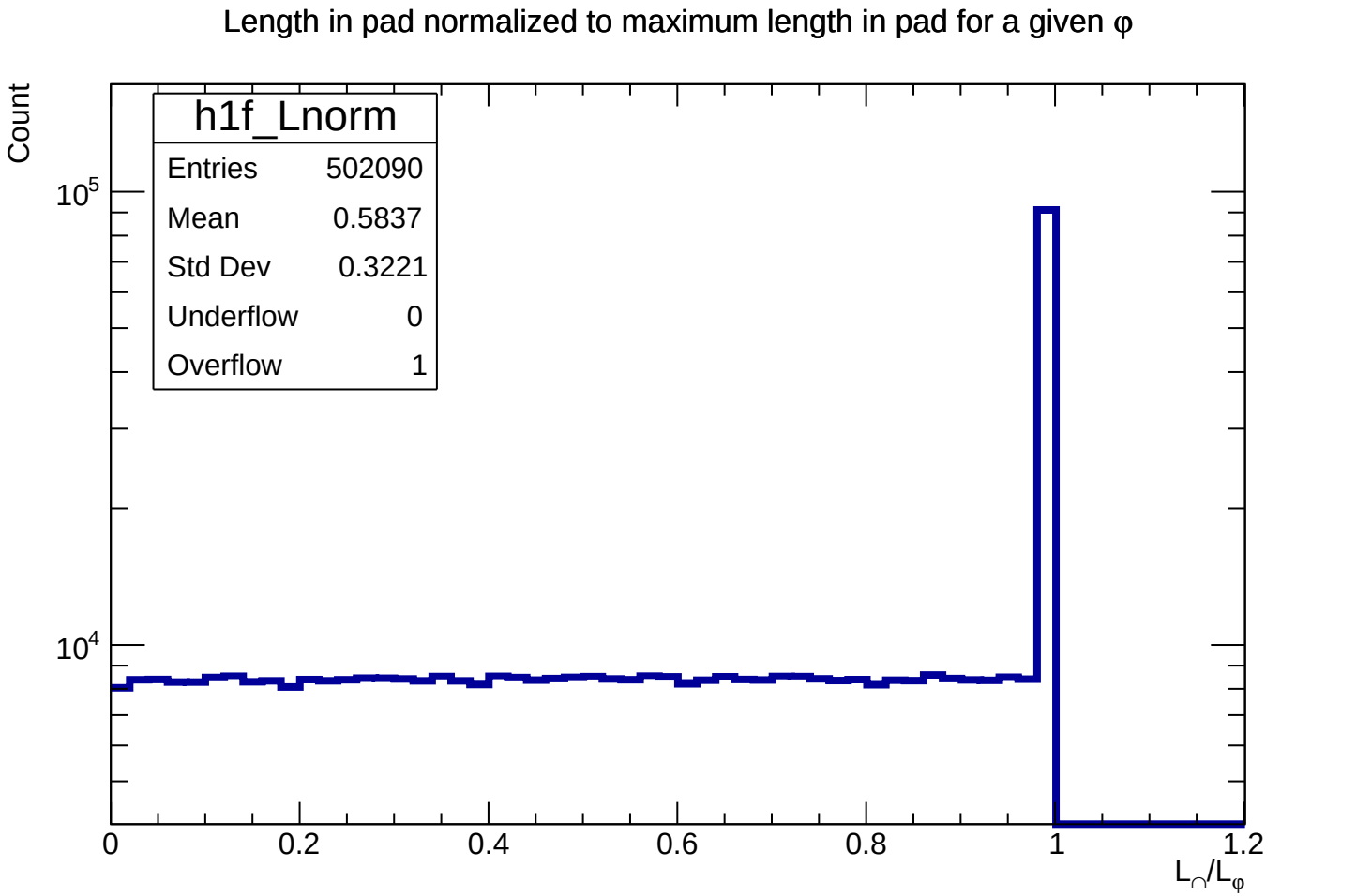

T_{max} of crossed pads
h1f_Tcross
Entries 440173
Mean 342.1
Std Dev 2.869
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

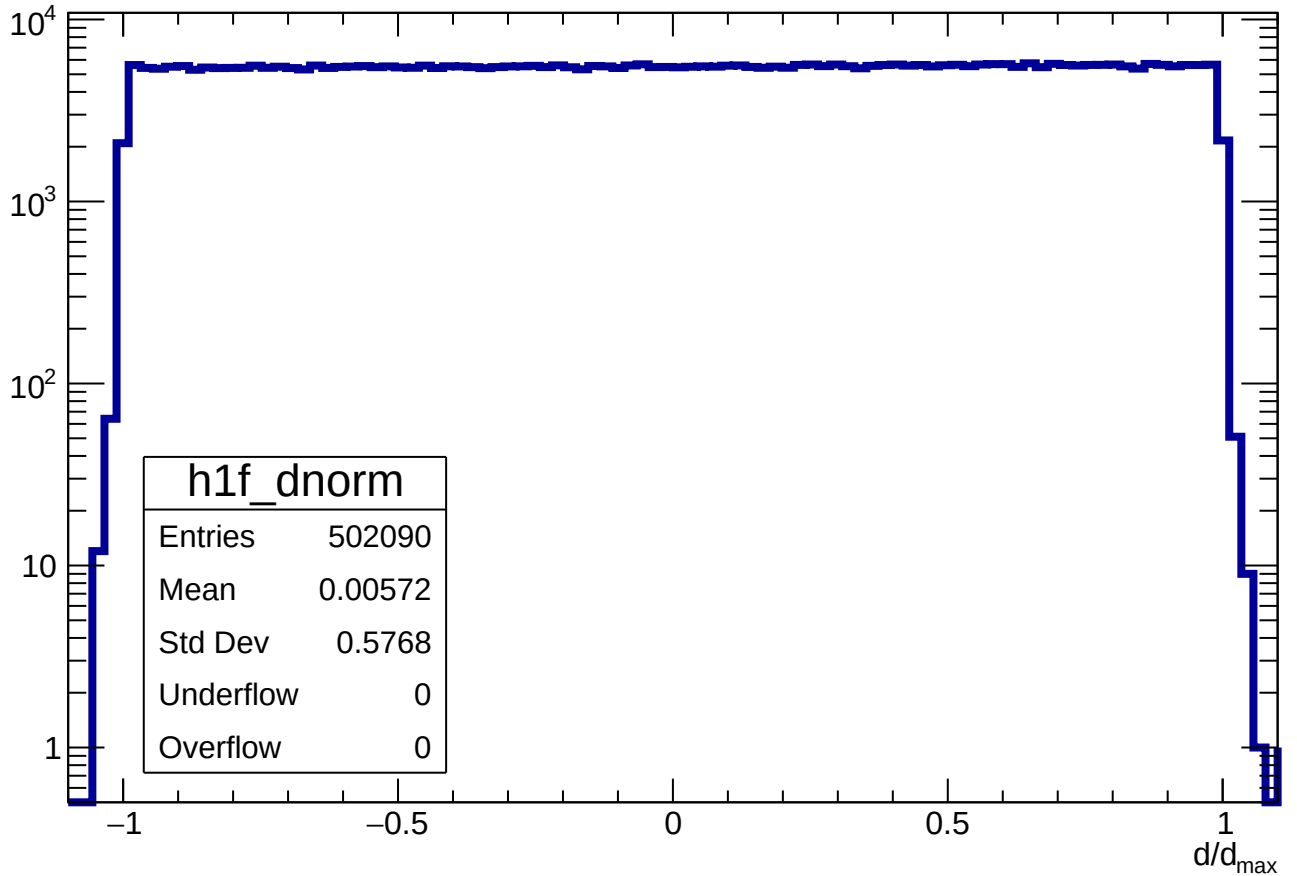

Number of crossed pads
h1f_Ncross
Entries 9294
Mean 47.36
Std Dev 2.347
Underflow 0
Overflow 0
Count
0
200
400
600
800
1000
1200
1400
15
20
25
30
35
40
45
50
55
60
# of crossed pads

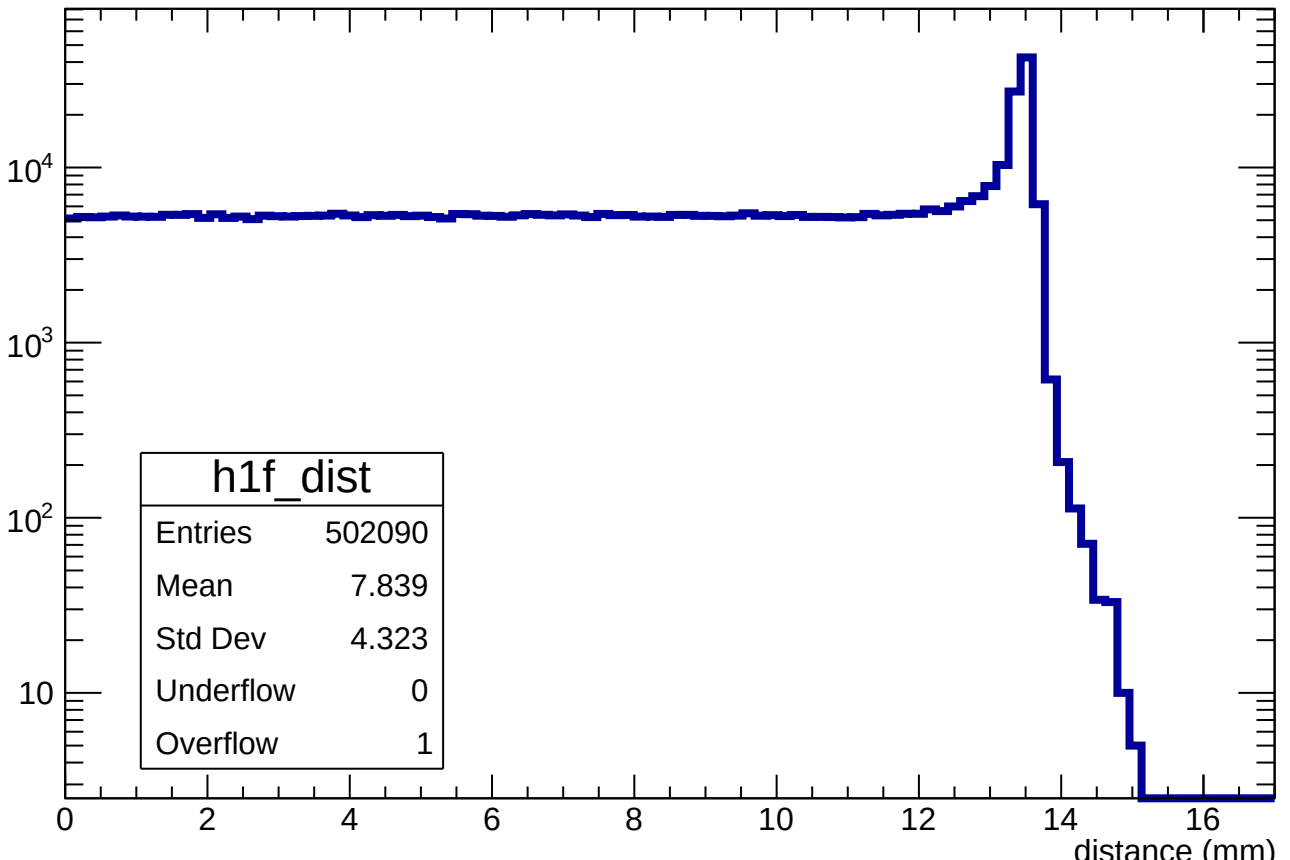

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 9294
Mean −0.08018
Std Dev 17.47
Underflow 1
Overflow 0
Count
0
100
200
300
400
500
600
700
−150
−100
−50
0
50
100
150
difference (ADC count)

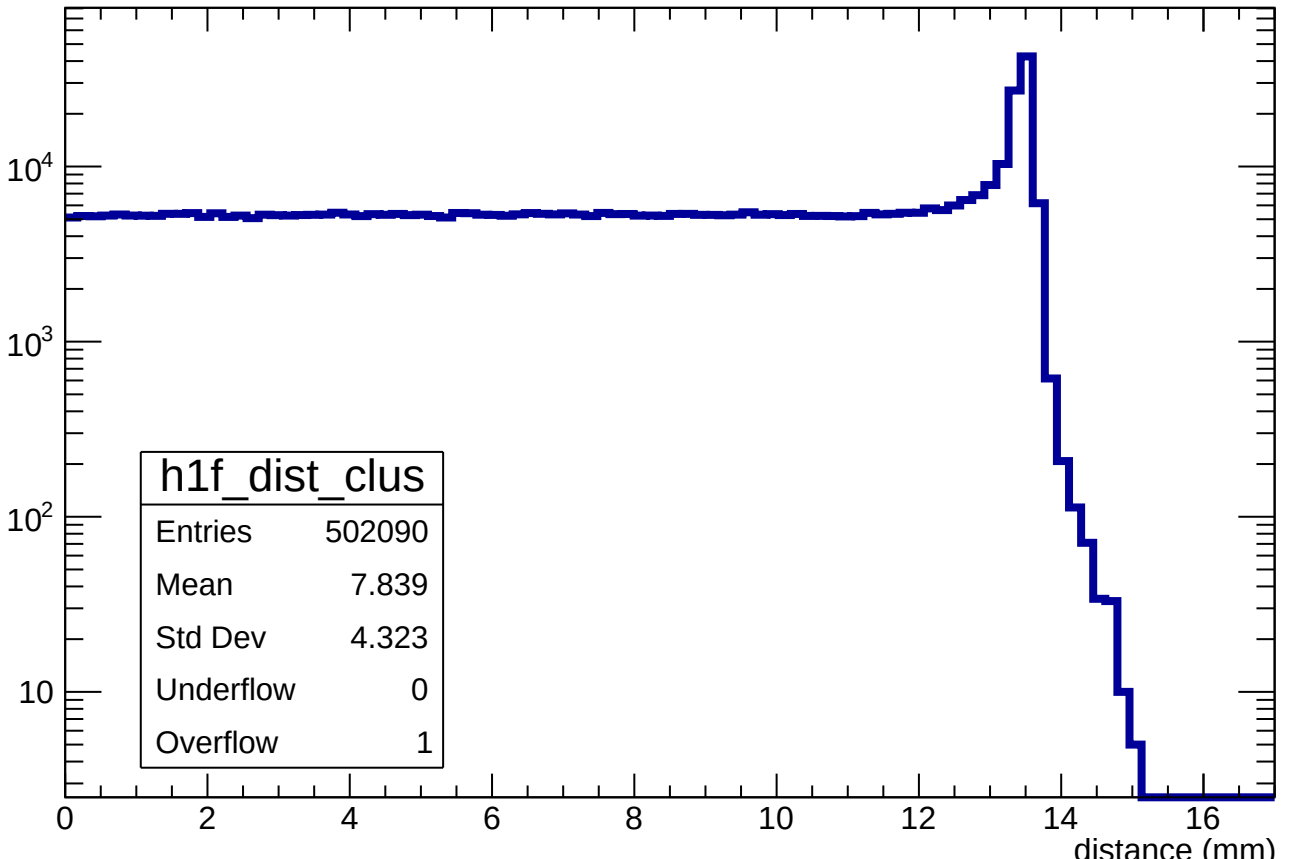

$z_{file = 950mm} - z_{computed}$
$\times 10^3$
Count
h1f_zdiff
Entries 440173
Mean 32.28
Std Dev 8.837
Underflow 0
Overflow 3
120
100
80
60
40
20
0
–150
–100
–50
0
50
100
150
difference (mm)

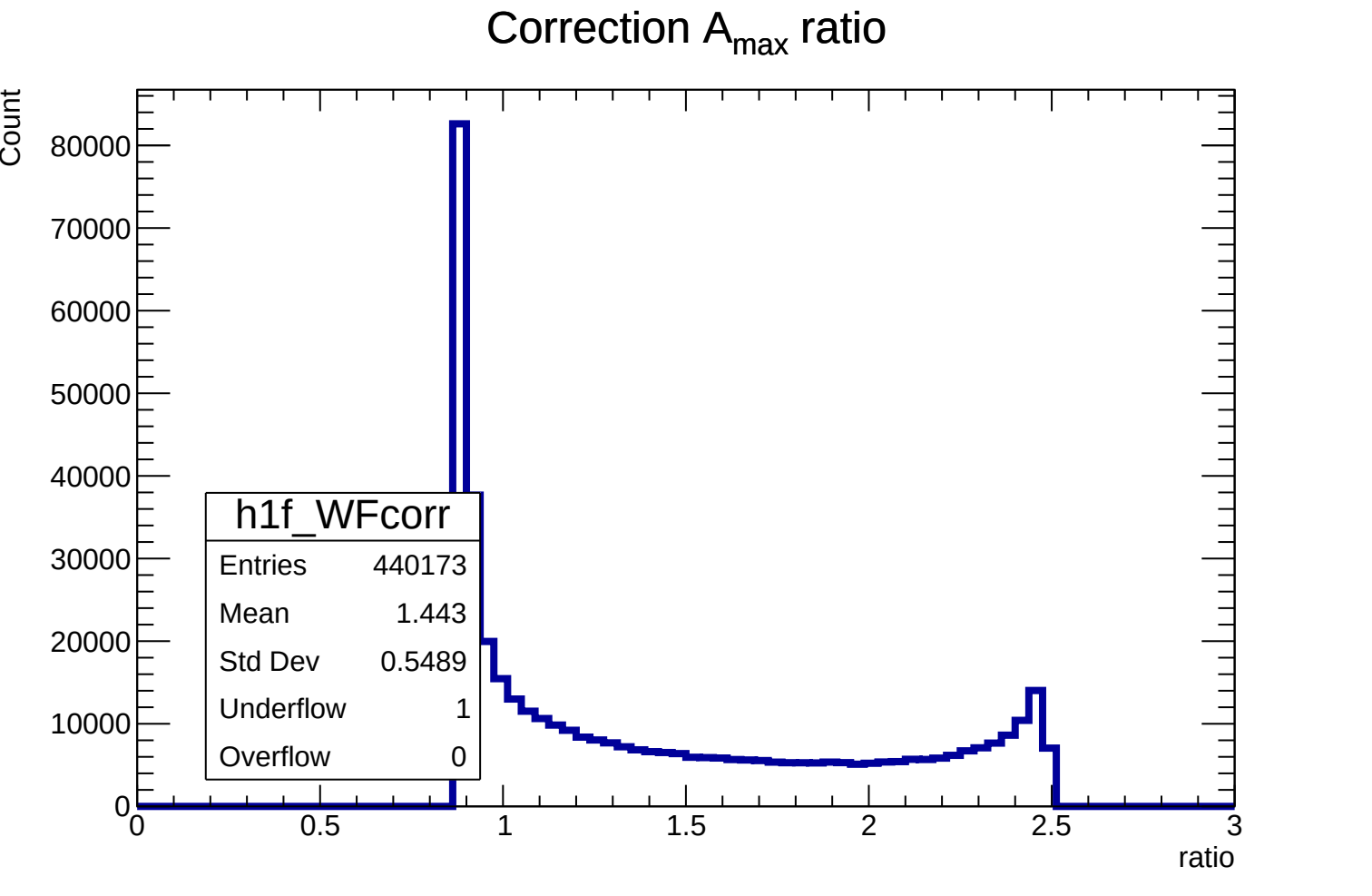

Angle φ in each pad
×10^3
Count
180
160
140
120
100
80
60
40
20
0
h1f_angle
Entries 440173
Mean −32.86
Std Dev 1.643
Underflow 0
Overflow 1
−50
−40
−30
−20
−10
0
10
φ (°)

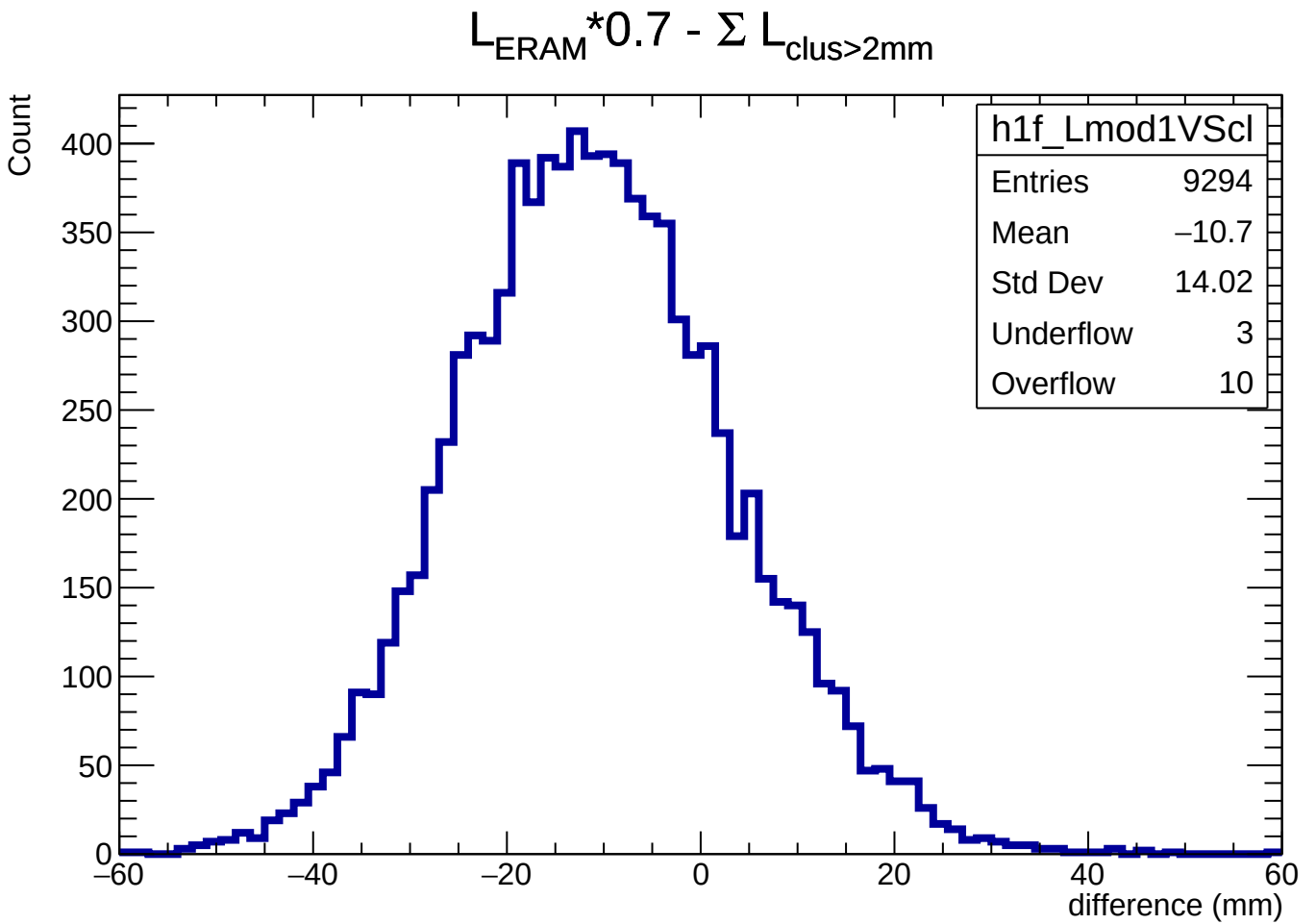

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 502090
Mean 0.5837
Std Dev 0.3221
Underflow 0
Overflow 1
Count
10^5
10^4
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

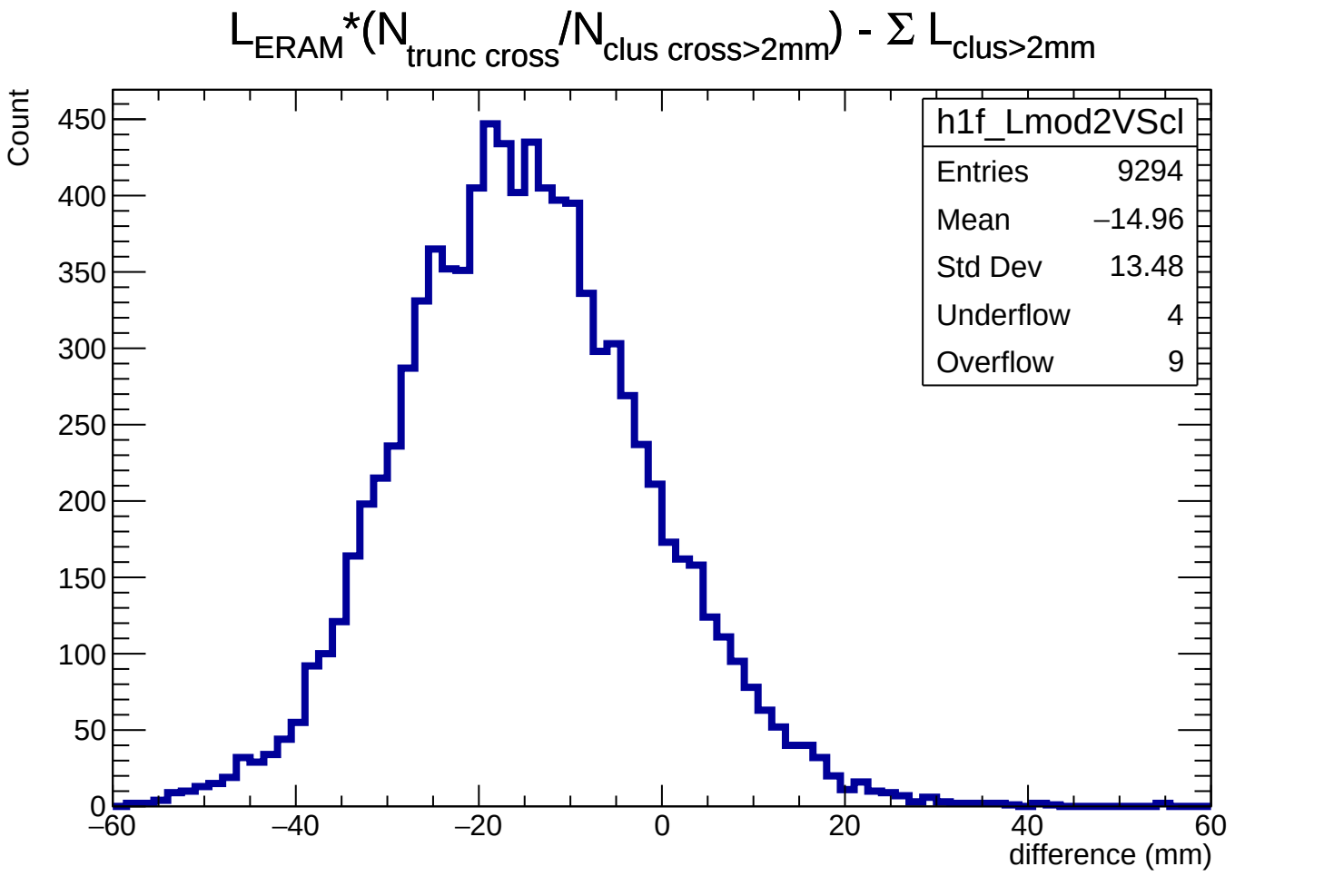

Normalized impact parameter d/d max
10^4
10^3
10^2
10
1
h1f_dnorm
Entries 502090
Mean 0.00572
Std Dev 0.5768
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

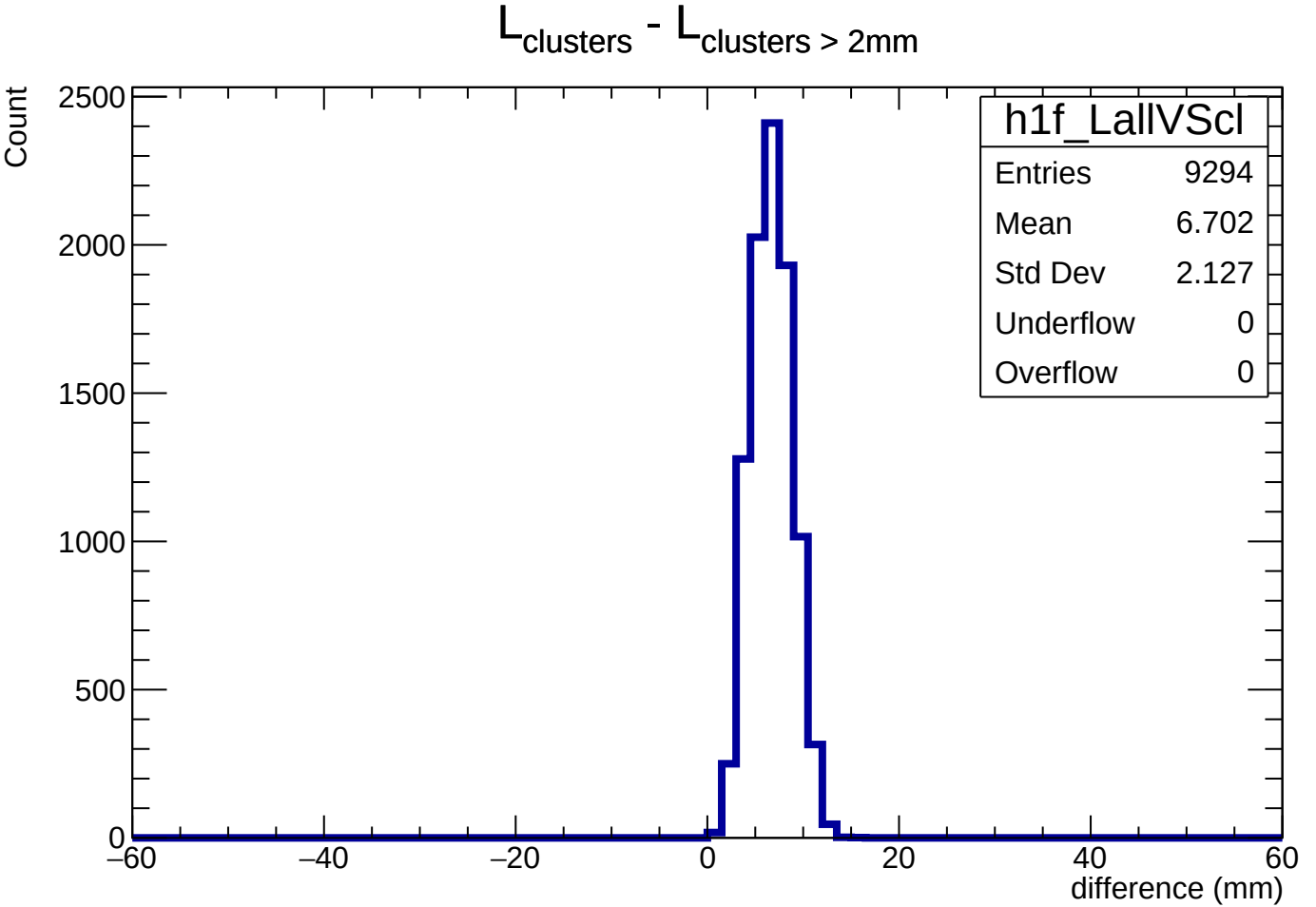

distance of track in pad
10^4
10^3
10^2
10
0
2
4
6
8
10
12
14
16
distance (mm)
h1f_dist
Entries 502090
Mean 7.839
Std Dev 4.323
Underflow 0
Overflow 1

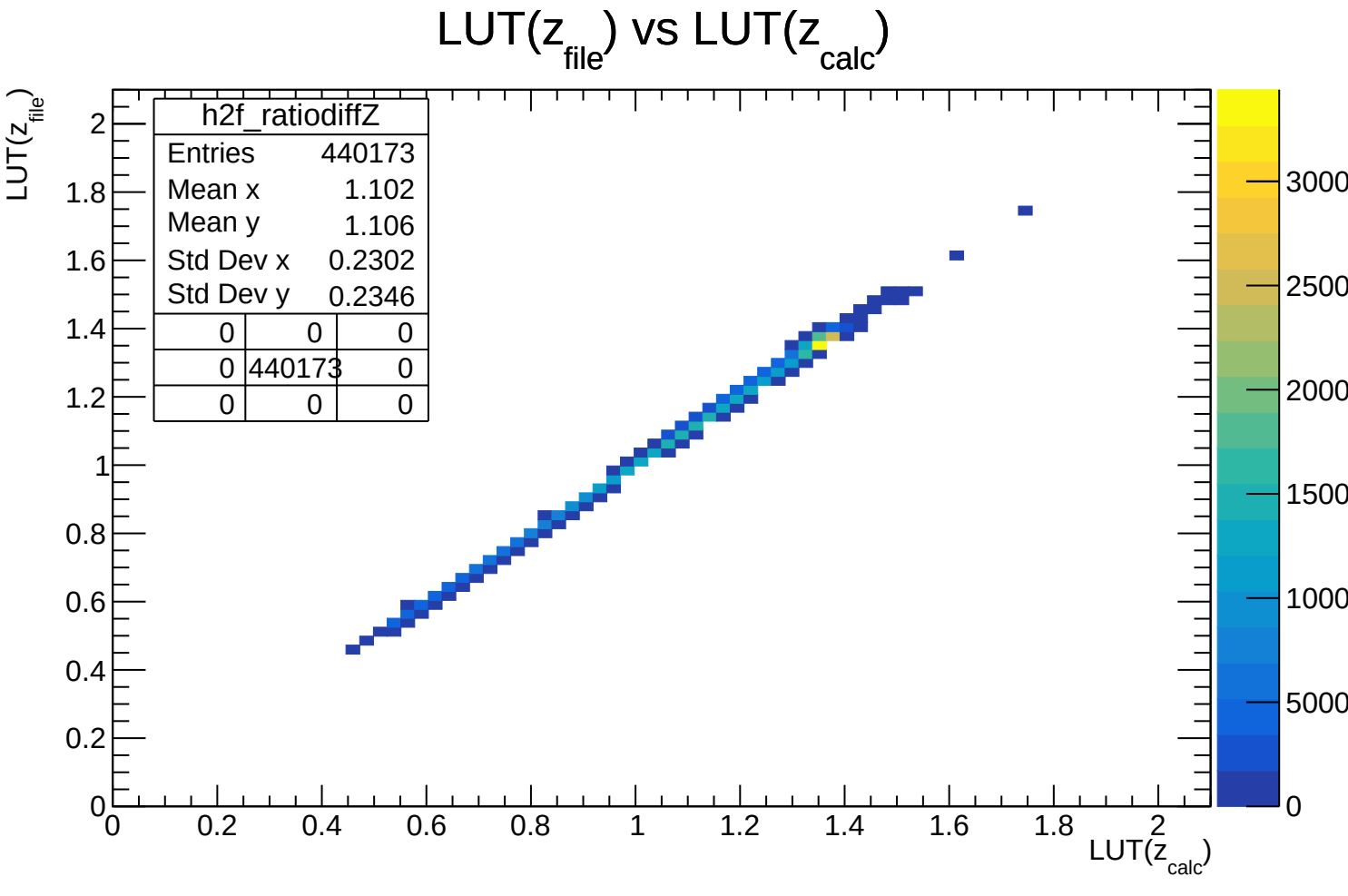

distance of track in cluster
h1f_dist_clus
Entries 502090
Mean 7.839
Std Dev 4.323
Underflow 0
Overflow 1
10^4
10^3
10^2
10
0
2
4
6
8
10
12
14
16
distance (mm)

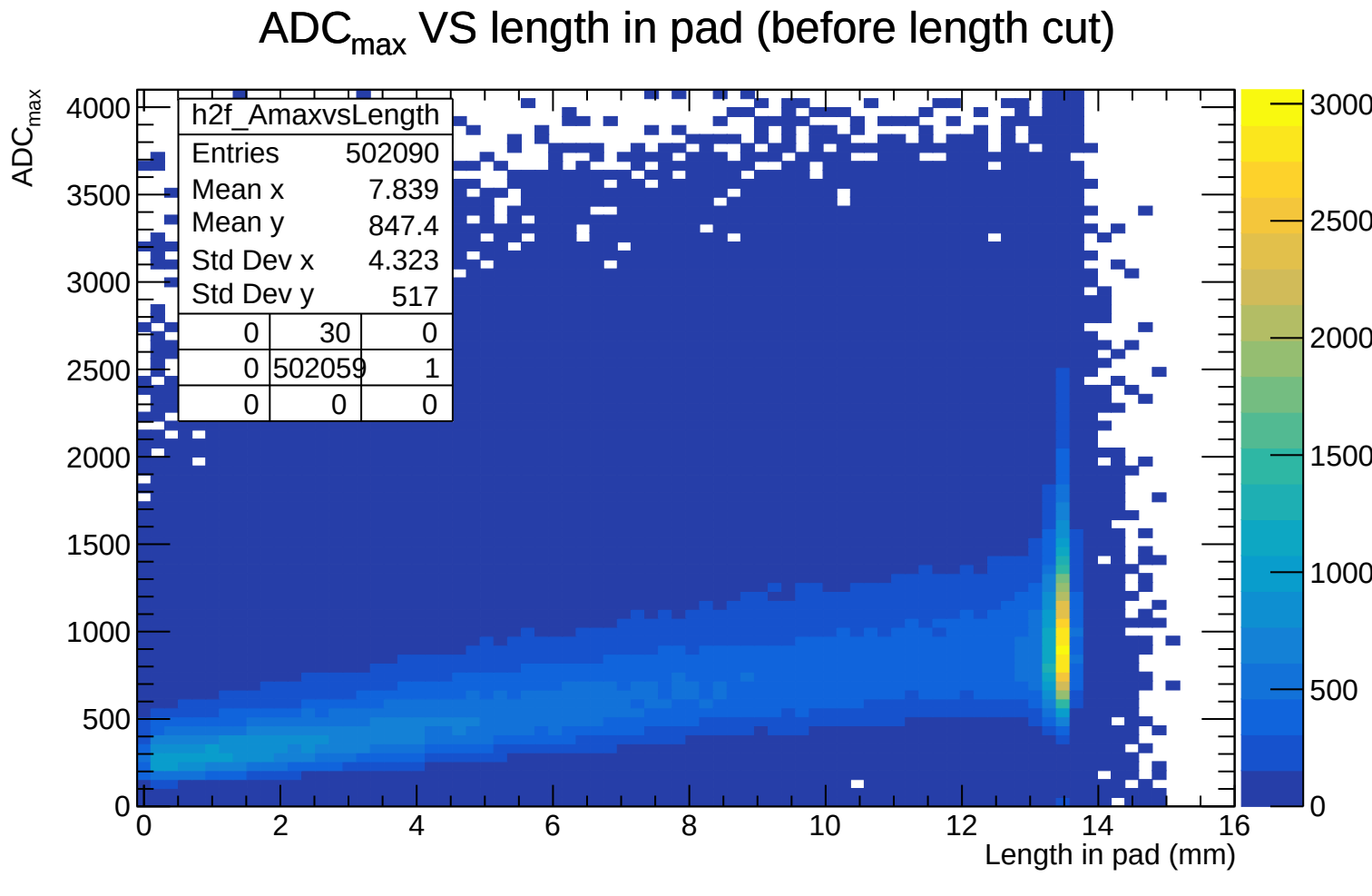

Correction A_{max} ratio
Count
80000
70000
60000
50000
40000
30000
20000
10000
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 440173
Mean 1.443
Std Dev 0.5489
Underflow 1
Overflow 0

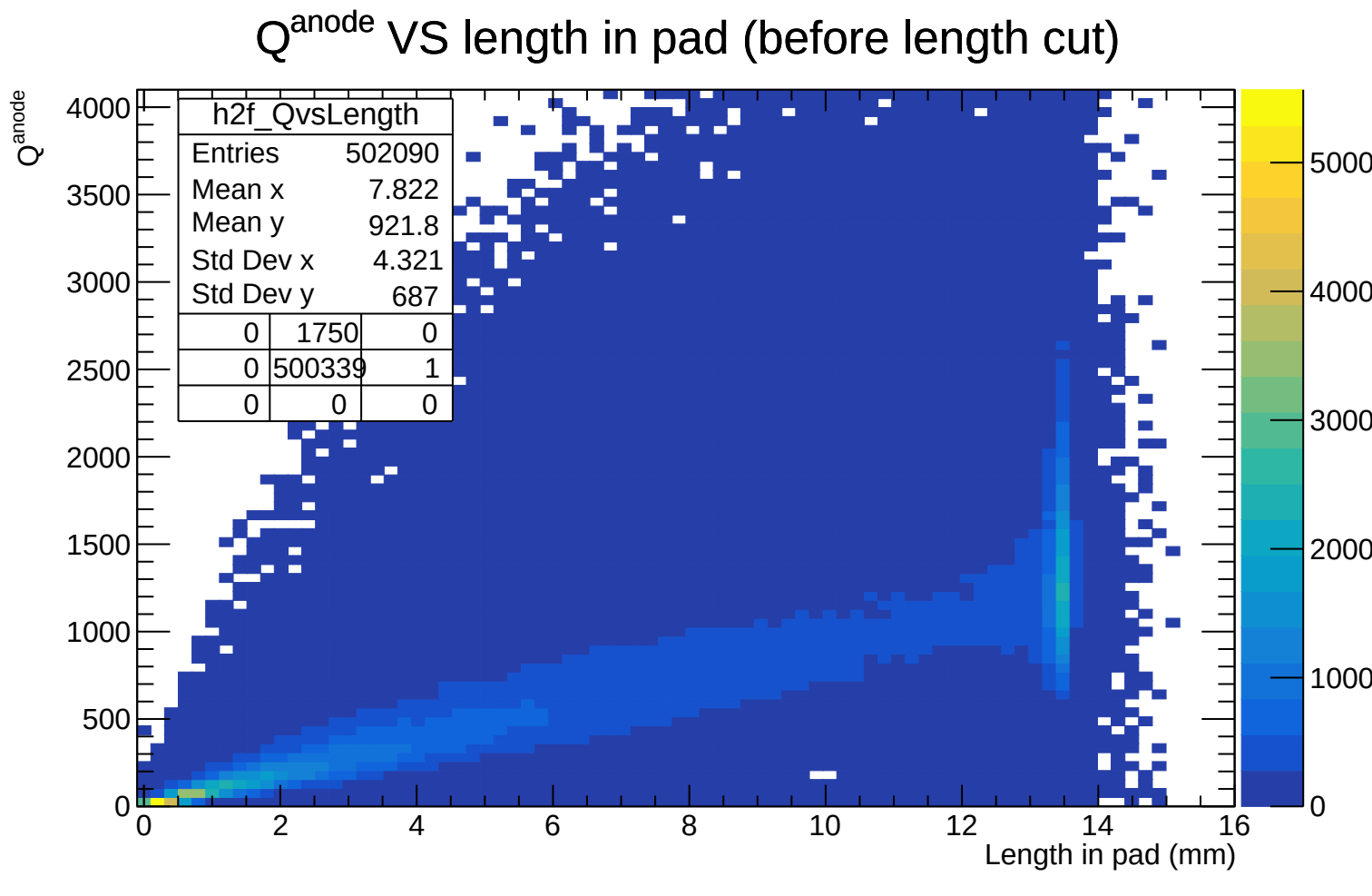

L_{ERAM}*0.7 - Σ $L_{clus>2mm}$
Count
400
350
300
250
200
150
100
50
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod1VScl
Entries 9294
Mean –10.7
Std Dev 14.02
Underflow 3
Overflow 10

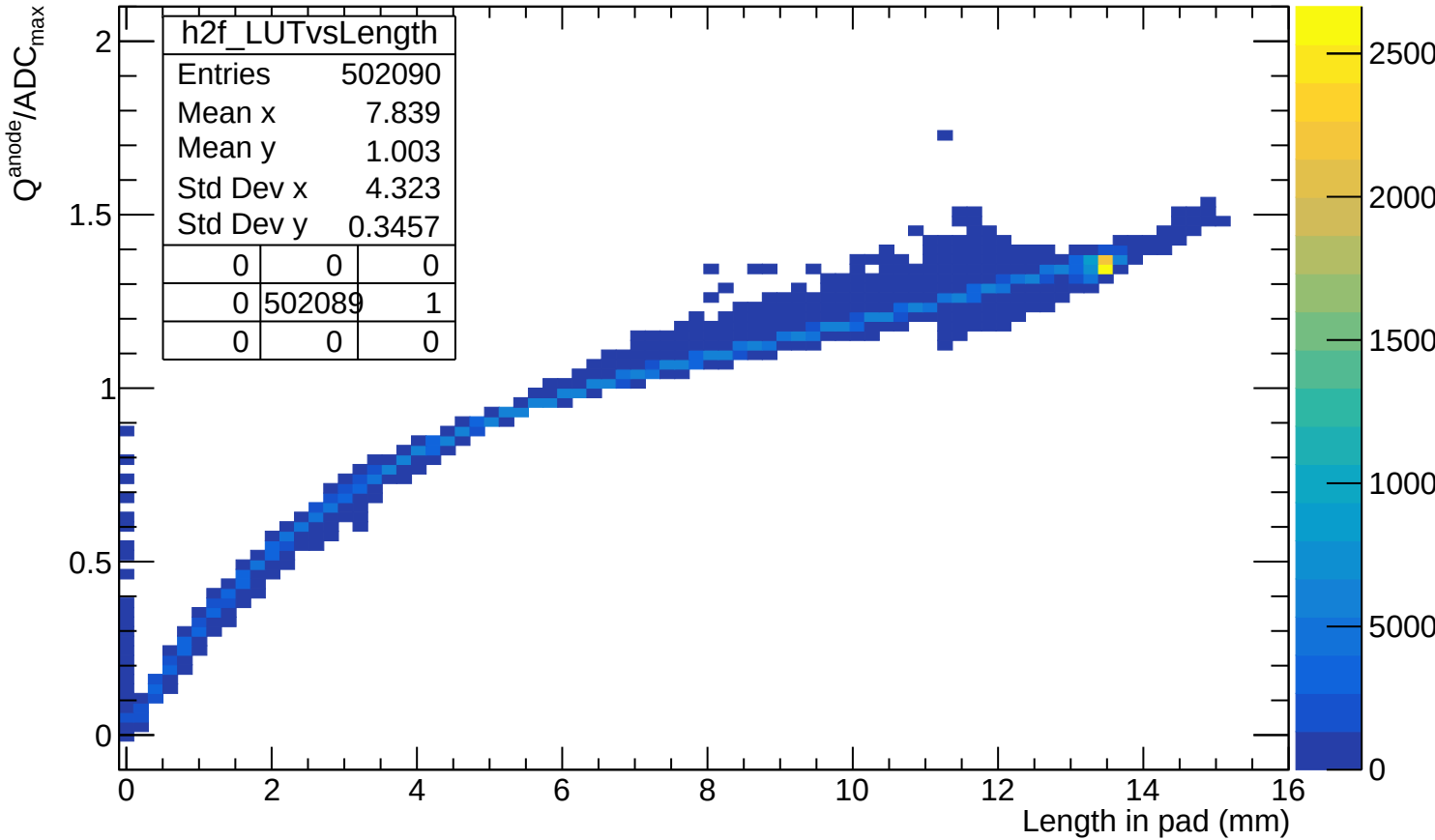

$L_{ERAM}*(N_{trunc\ cross}/N_{clus\ cross>2mm}) - \Sigma\ L_{clus>2mm}$
Count
450
400
350
300
250
200
150
100
50
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod2VScl
Entries 9294
Mean –14.96
Std Dev 13.48
Underflow 4
Overflow 9

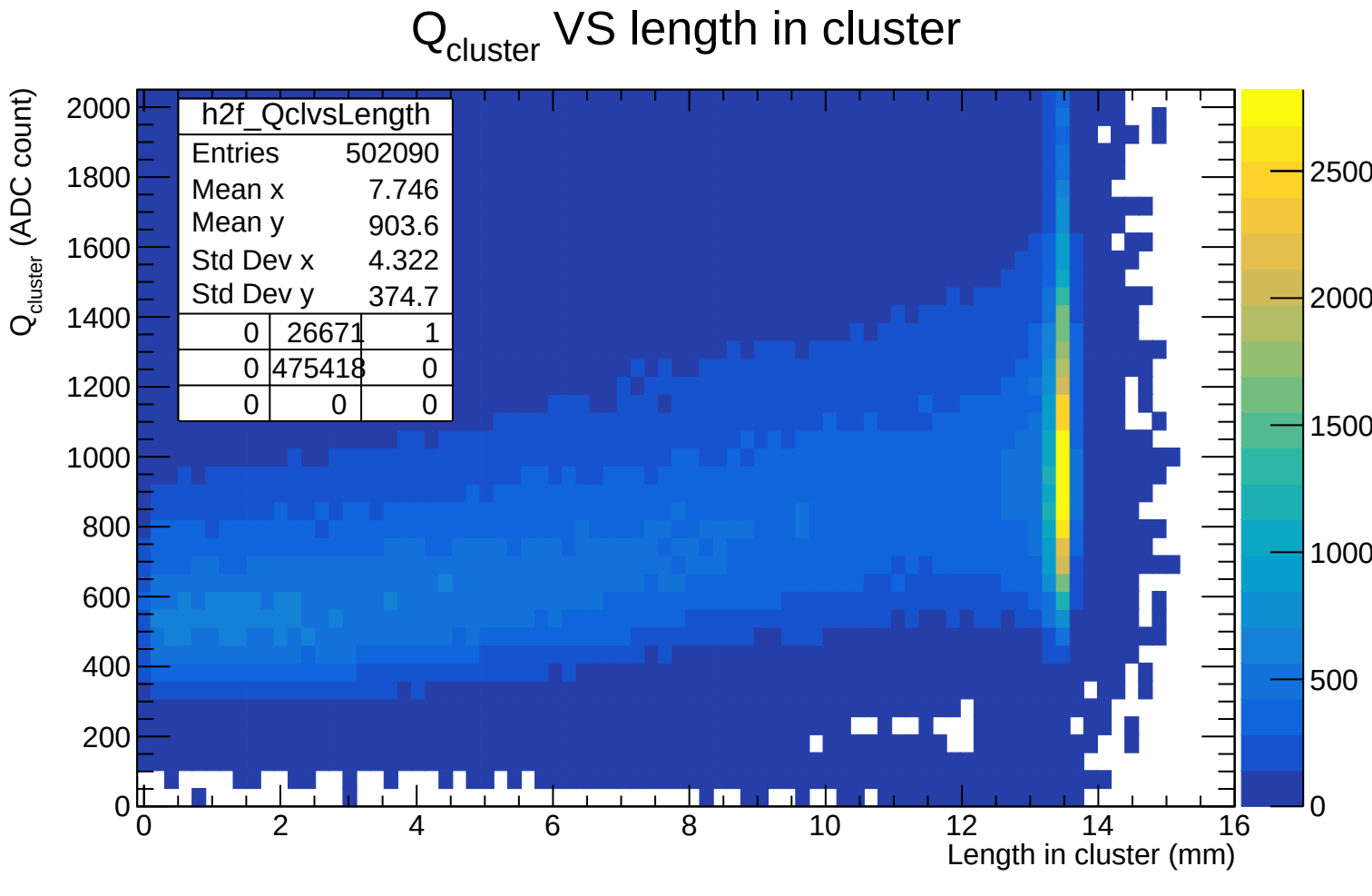

$L_{clusters}$ - $L_{clusters > 2mm}$
Count
2500
2000
1500
1000
500
0
−60
−40
−20
0
20
40
60
difference (mm)
h1f_LallVScl
Entries 9294
Mean 6.702
Std Dev 2.127
Underflow 0
Overflow 0

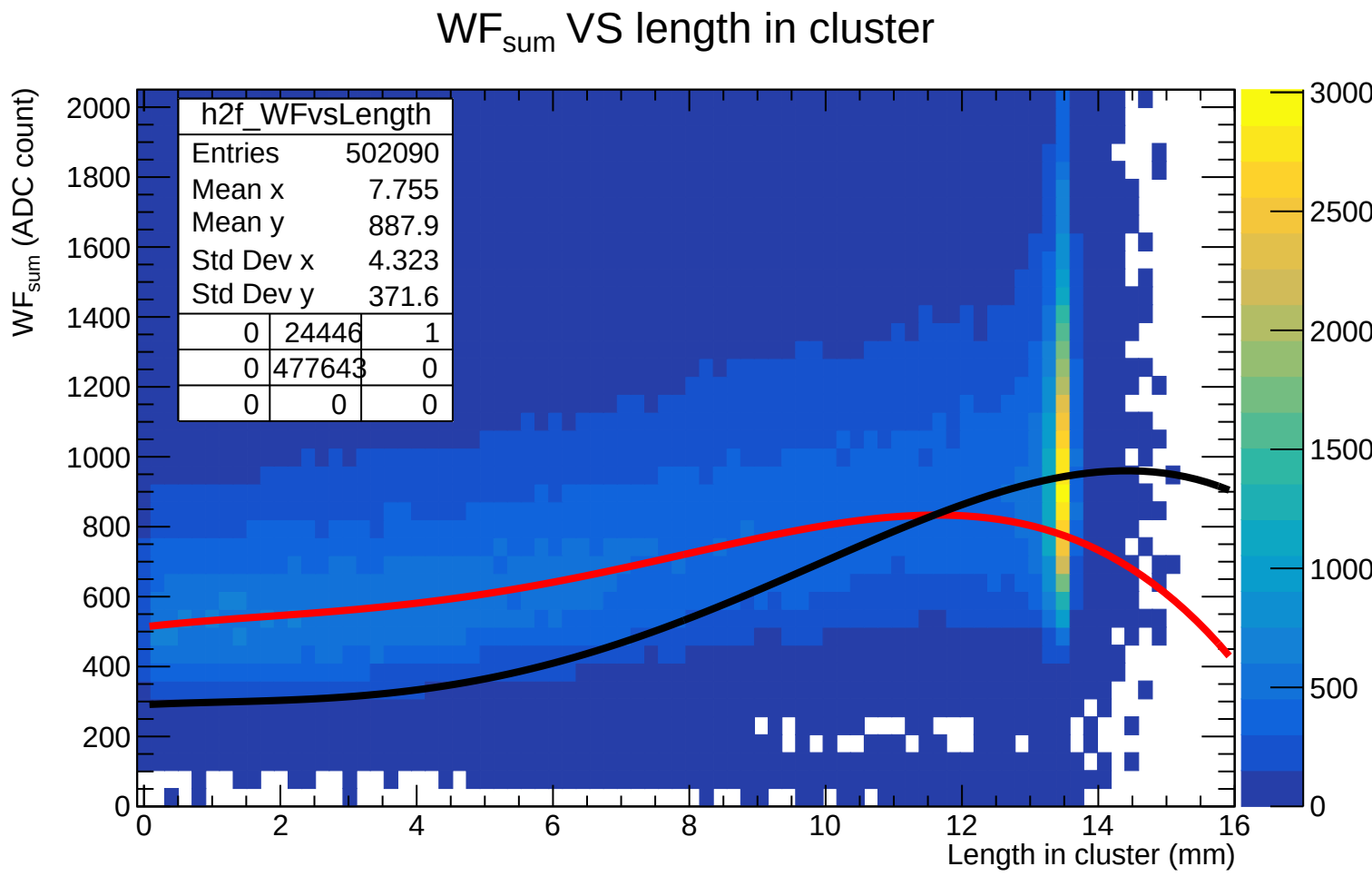

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 440173
Mean x 1.102
Mean y 1.106
Std Dev x 0.2302
Std Dev y 0.2346
0 0 0
0 440173 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5000 1000 1500 2000 2500 3000

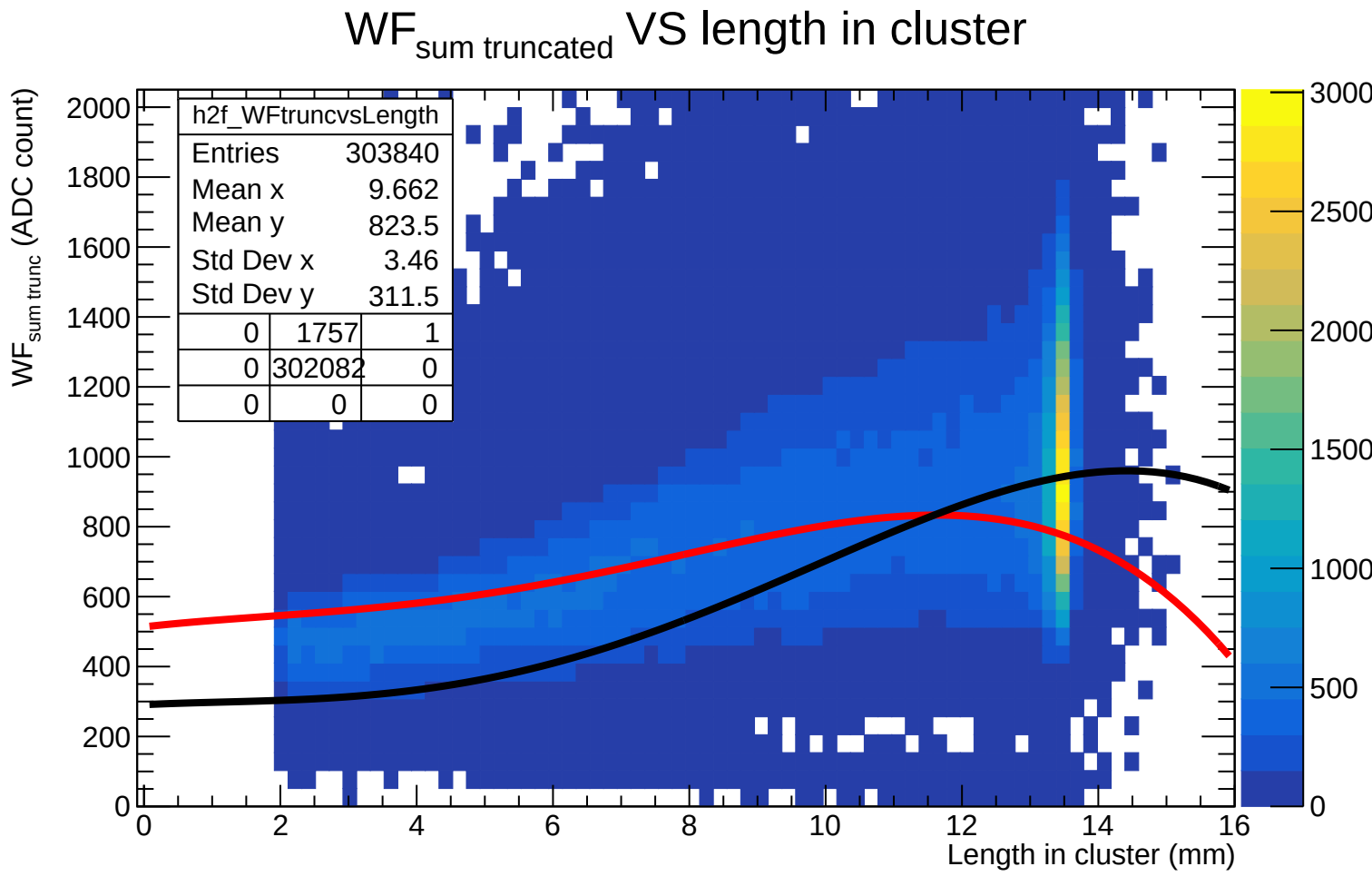

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 502090
Mean x 7.839
Mean y 847.4
Std Dev x 4.323
Std Dev y 517
0 30 0
0 502059 1
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16

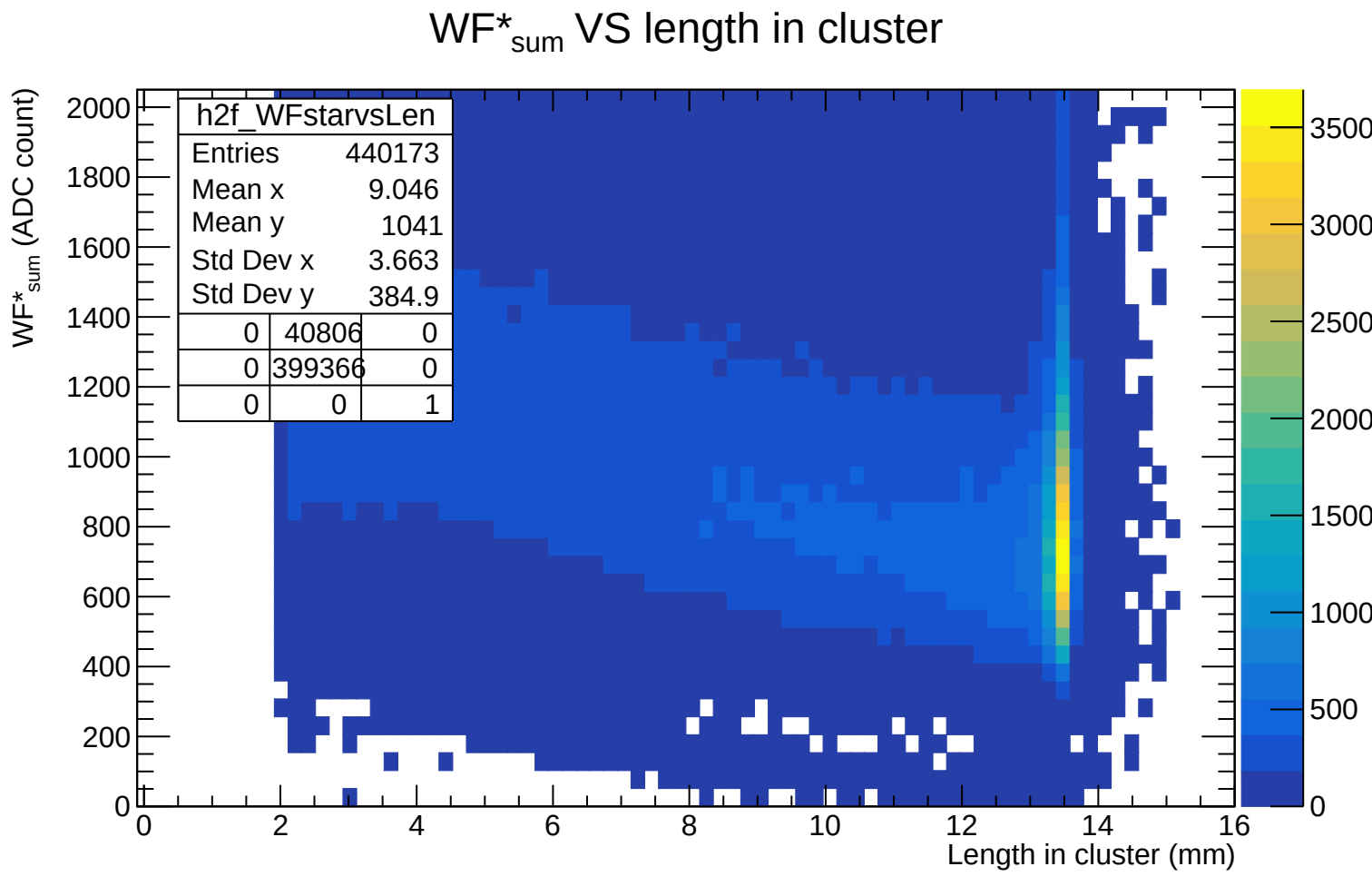

Q^anode VS length in pad (before length cut)
Q^anode
h2f_QvsLength
Entries 502090
Mean x 7.822
Mean y 921.8
Std Dev x 4.321
Std Dev y 687
0 1750 0
0 500339 1
0 0 0
4000
3500
3000
2500
2000
1500
1000
500
0
0
2
4
6
8
10
12
14
16
Length in pad (mm)
5000
4000
3000
2000
1000
0

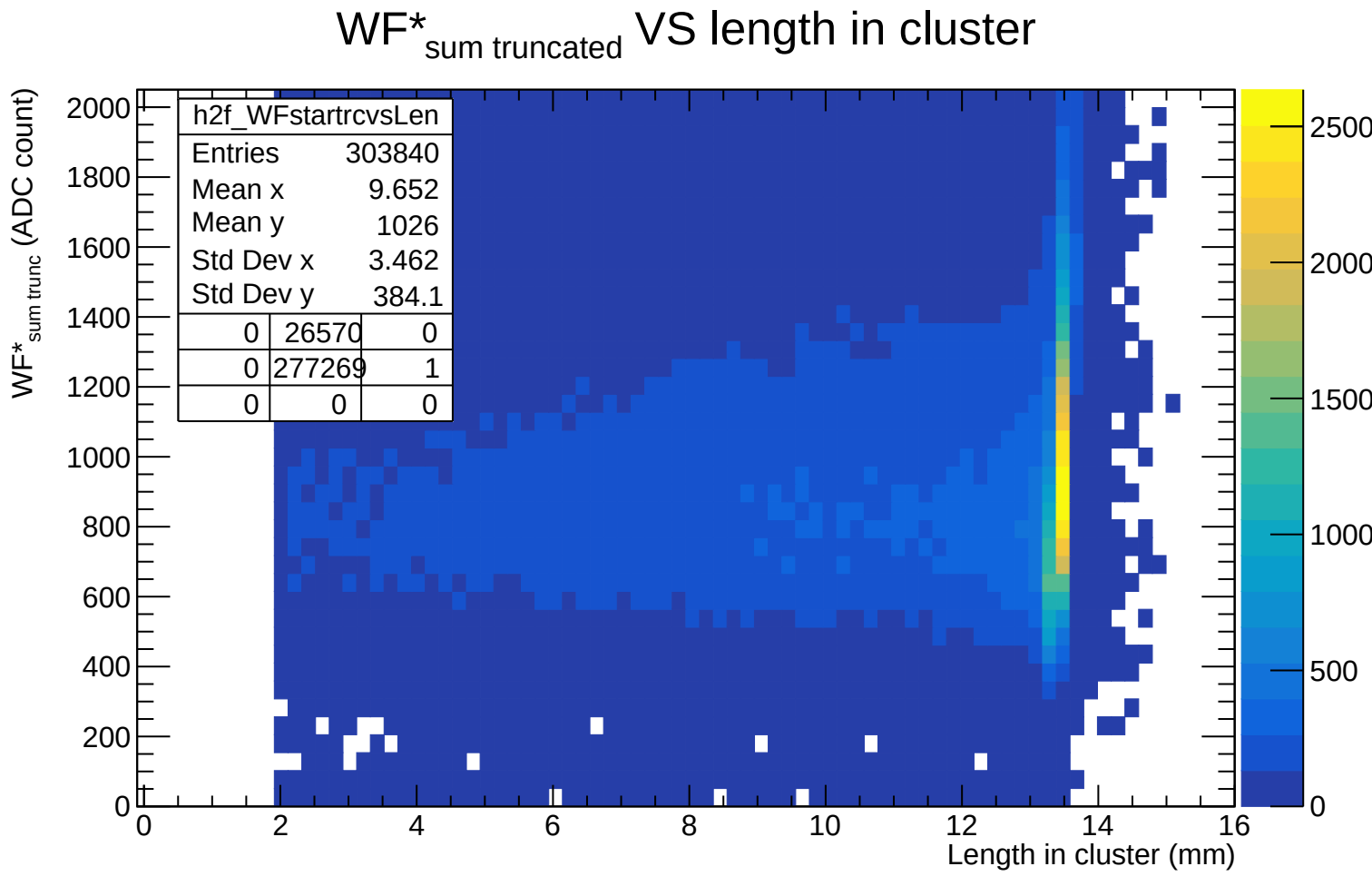

Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 502090
Mean x 7.839
Mean y 1.003
Std Dev x 4.323
Std Dev y 0.3457
0 0 0
0 502089 1
0 0 0
Q^{anode}/ADC_{max}
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
500
1000
1500
2000
2500

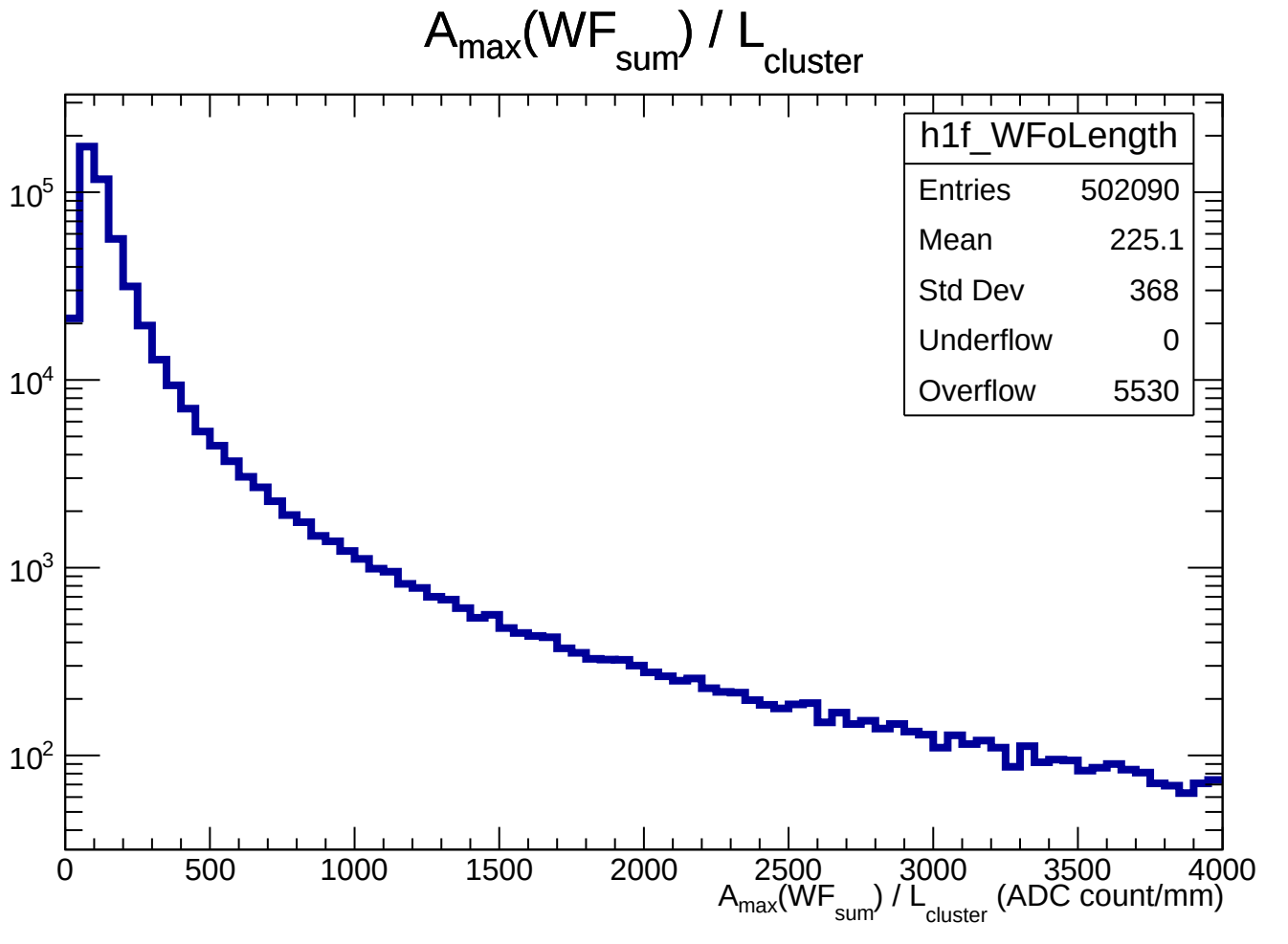

$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 502090
Mean x 7.746
Mean y 903.6
Std Dev x 4.322
Std Dev y 374.7
0 26671 1
0 475418 0
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
500
1000
1500
2000
2500

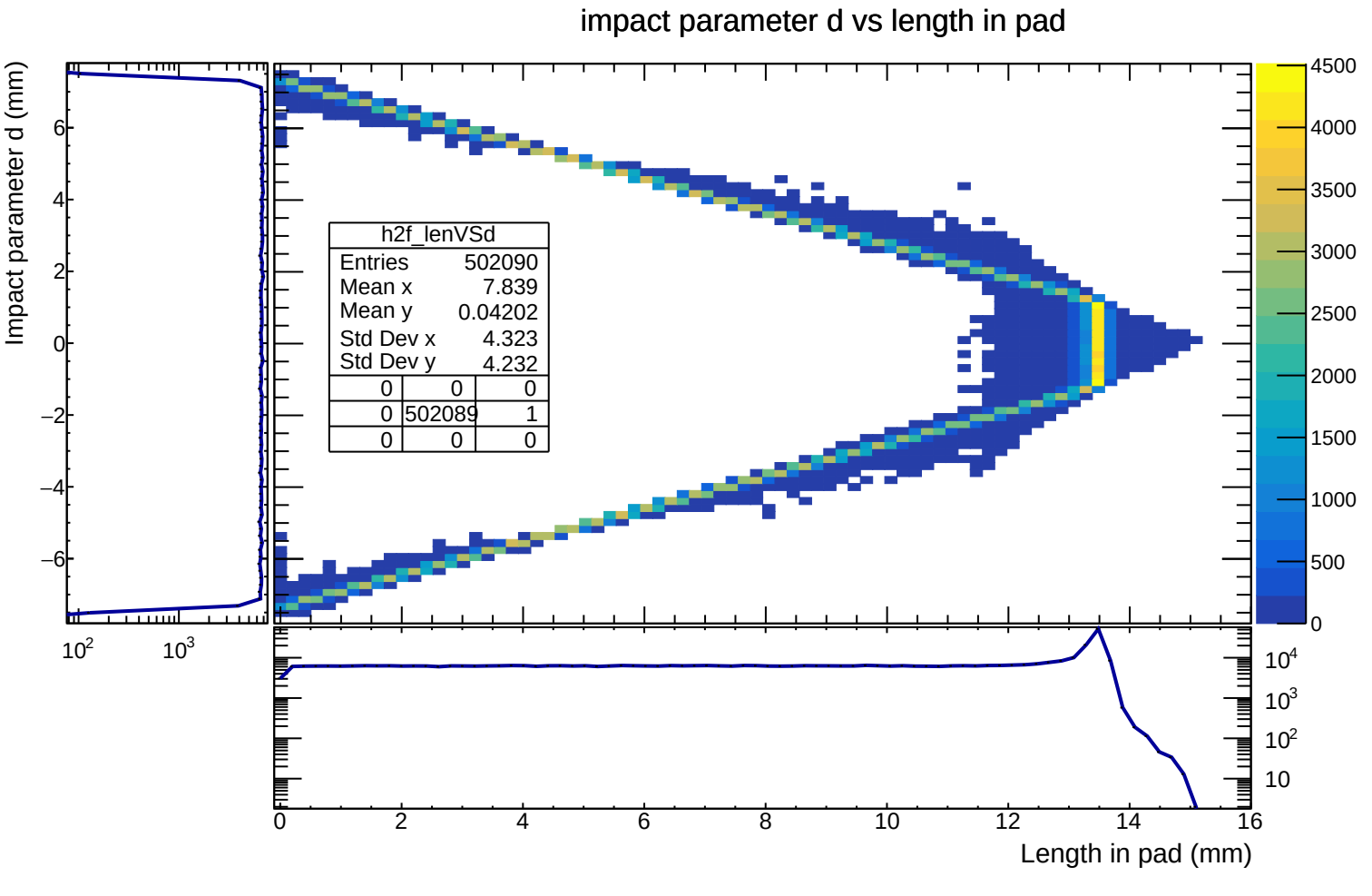

WF$_{sum}$ VS length in cluster
h2f_WFvsLength
Entries 502090
Mean x 7.755
Mean y 887.9
Std Dev x 4.323
Std Dev y 371.6
0 24446 1
0 477643 0
0 0 0
WF$_{sum}$ (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
0
500
1000
1500
2000
2500
3000


WF sum truncated VS length in cluster
WF sum trunc (ADC count)
Length in cluster (mm)
h2f_WFtruncvsLength
Entries 303840
Mean x 9.662
Mean y 823.5
Std Dev x 3.46
Std Dev y 311.5
0 1757 1
0 302082 0
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 500 1000 1500 2000 2500 3000


WF*sum VS length in cluster
h2f_WFstarvsLen
Entries 440173
Mean x 9.046
Mean y 1041
Std Dev x 3.663
Std Dev y 384.9
0 40806 0
0 399366 0
0 0 1
WF*sum (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2
4
6
8
10
12
14
16
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 303840
Mean x 9.652
Mean y 1026
Std Dev x 3.462
Std Dev y 384.1
0 26570 0
0 277269 1
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


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 502090
Mean 225.1
Std Dev 368
Underflow 0
Overflow 5530
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 502090
Mean x 7.839
Mean y 0.04202
Std Dev x 4.323
Std Dev y 4.232
0 0 0
0 502089 1
0 0 0