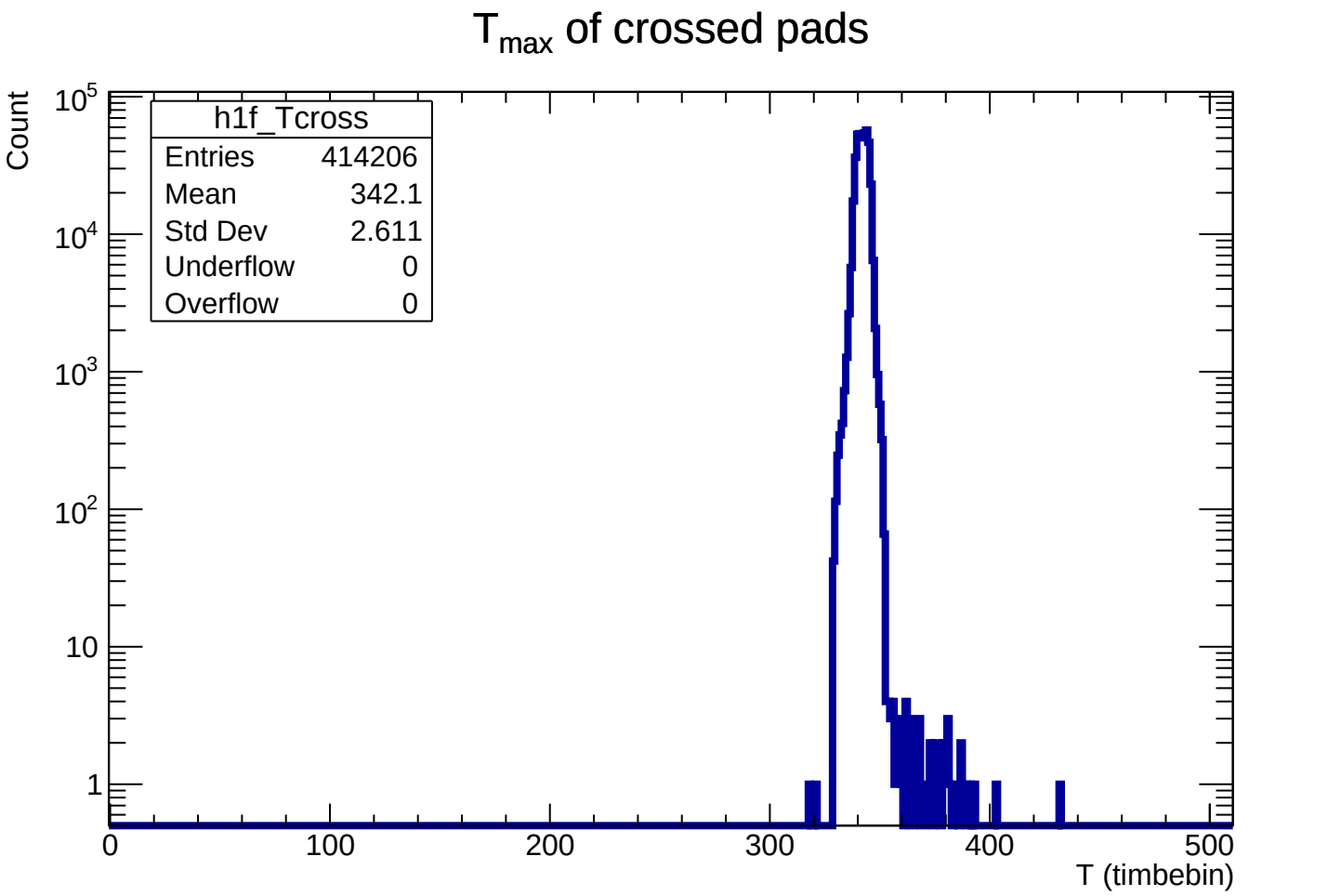
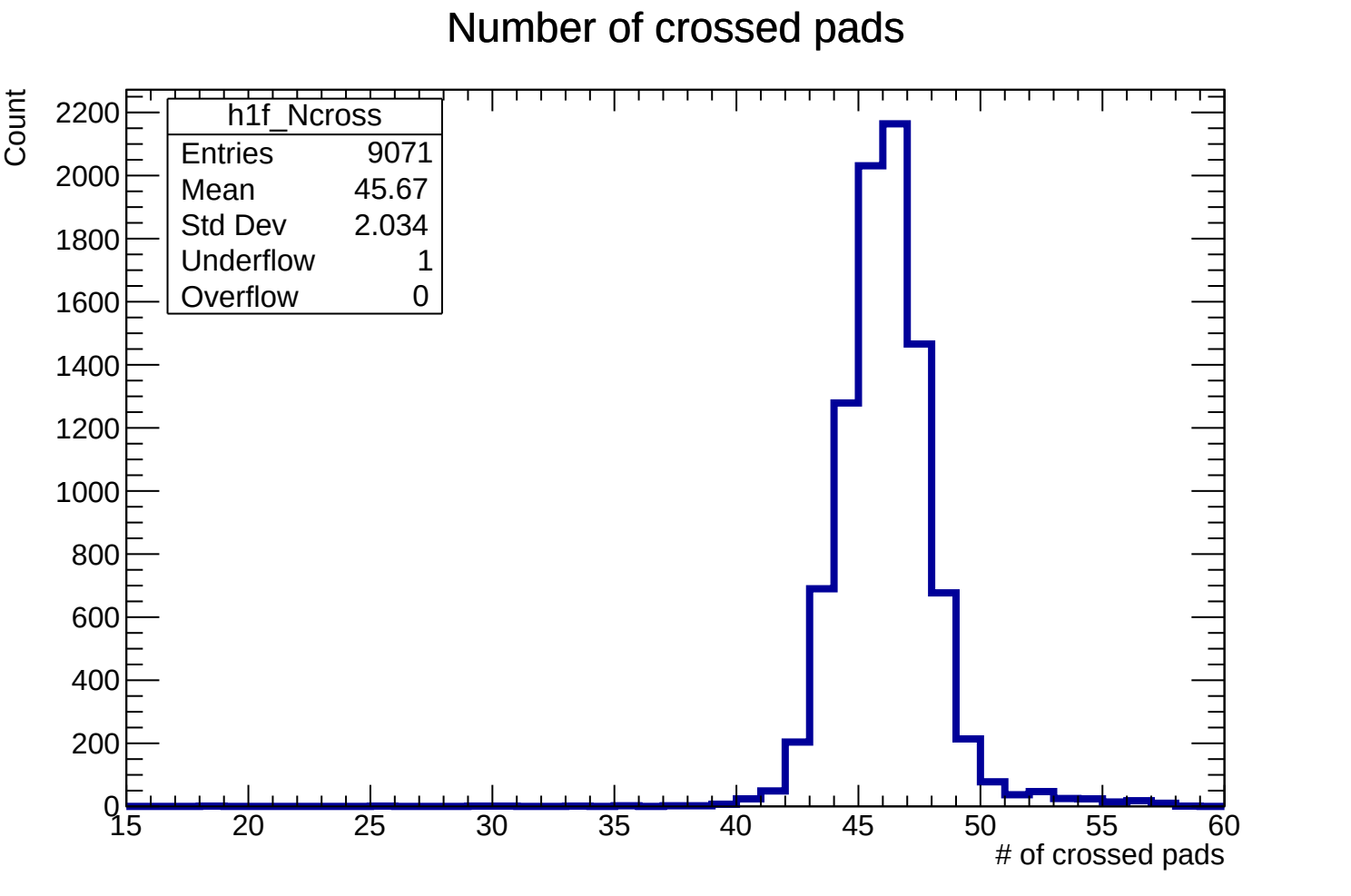
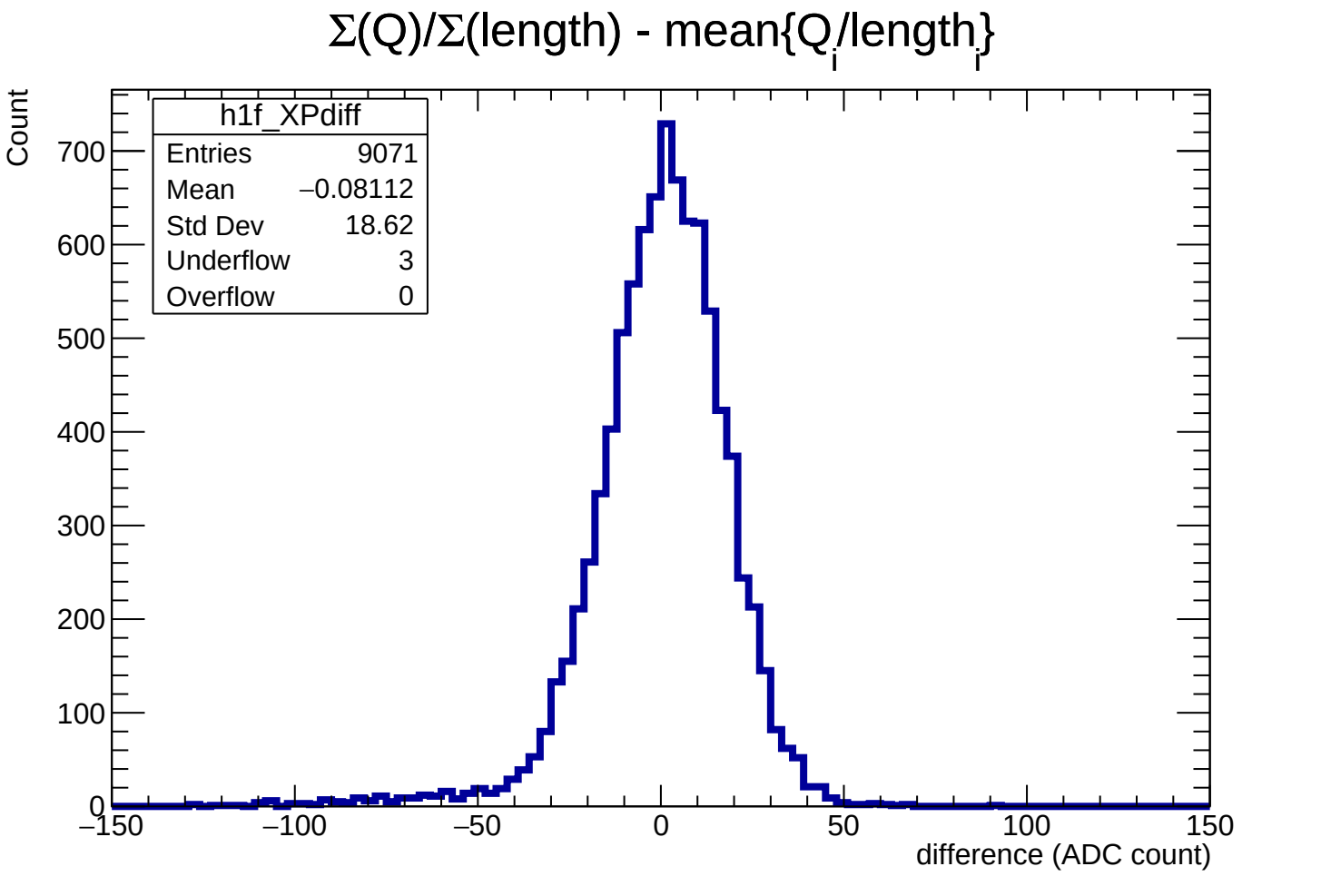
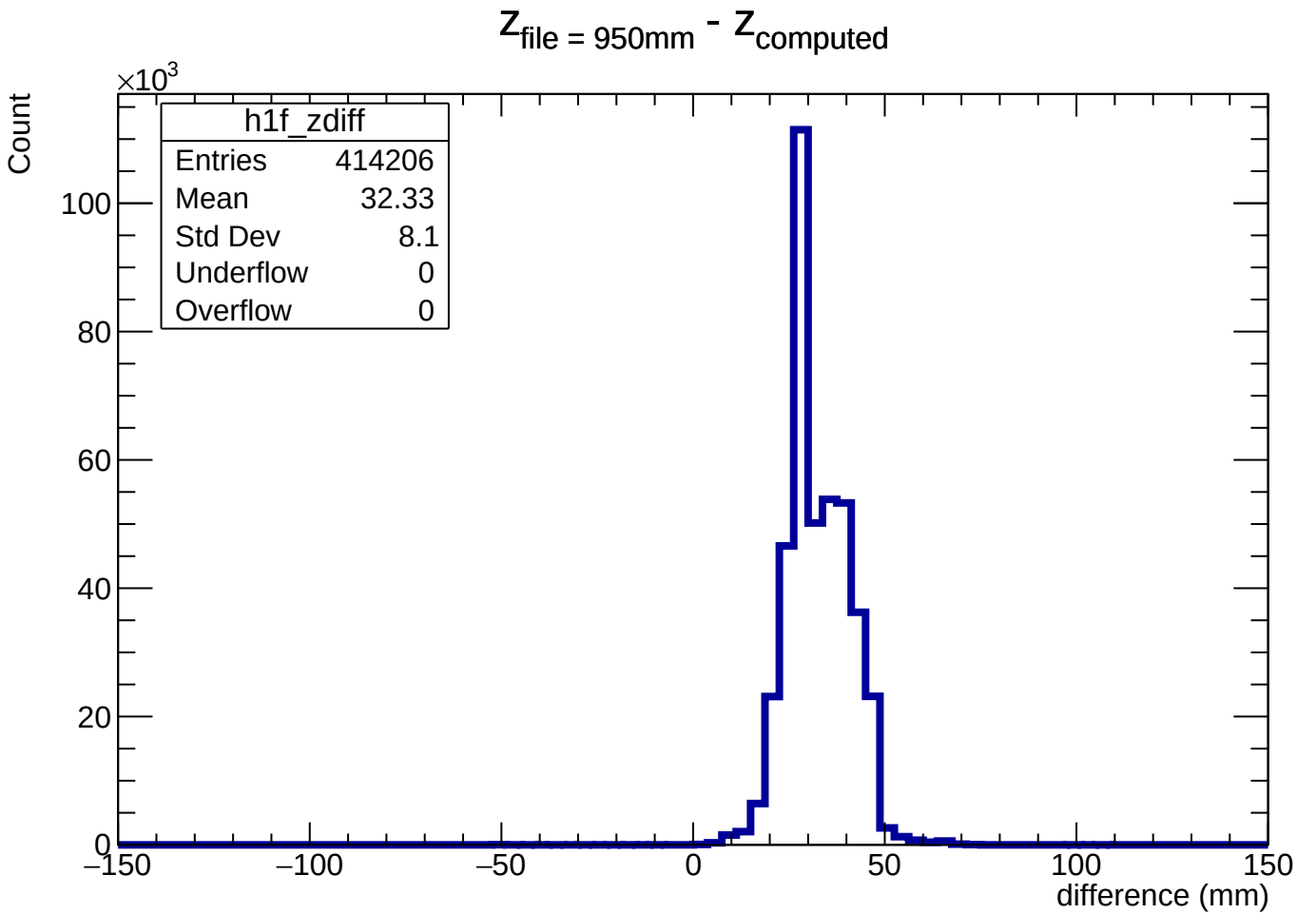
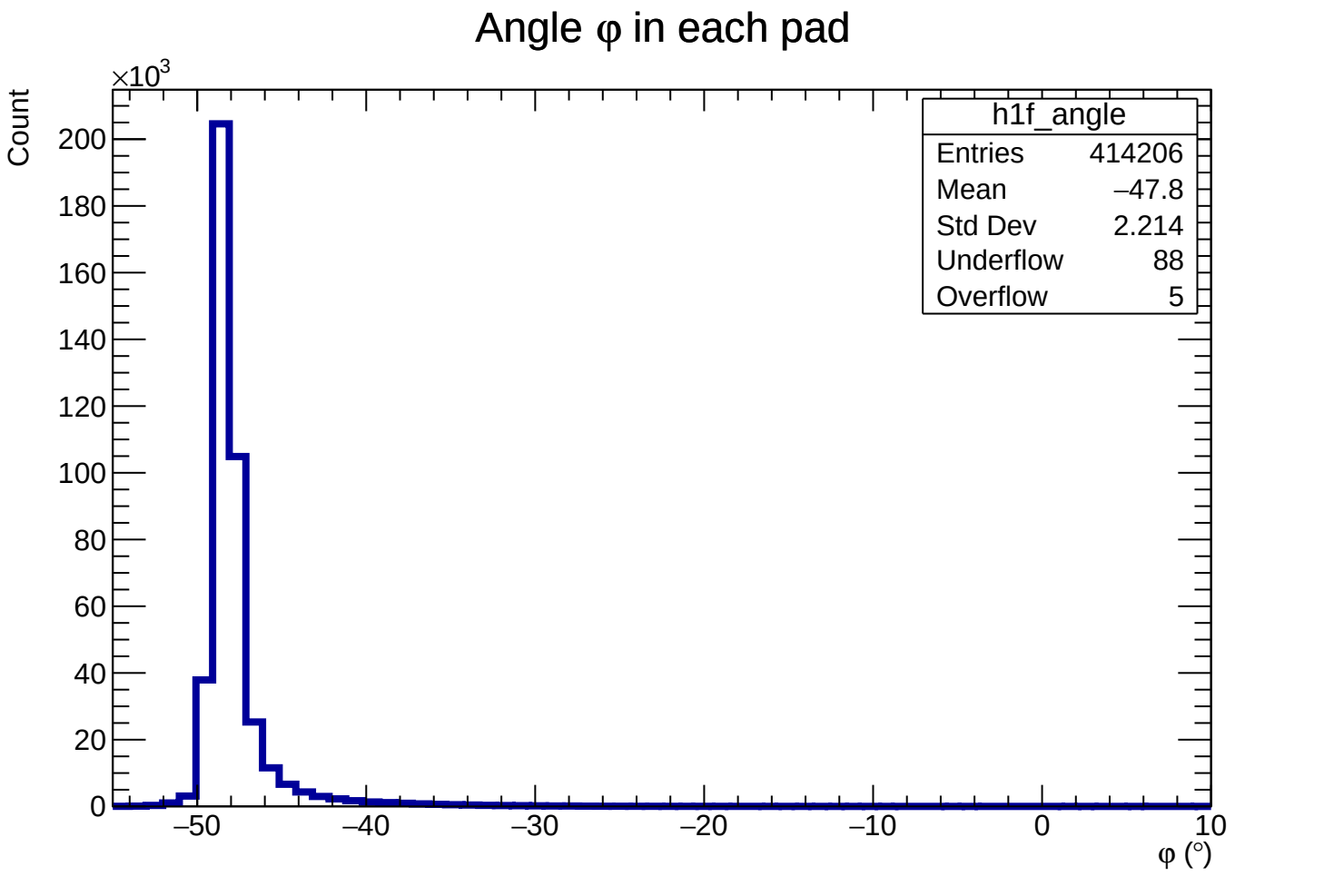
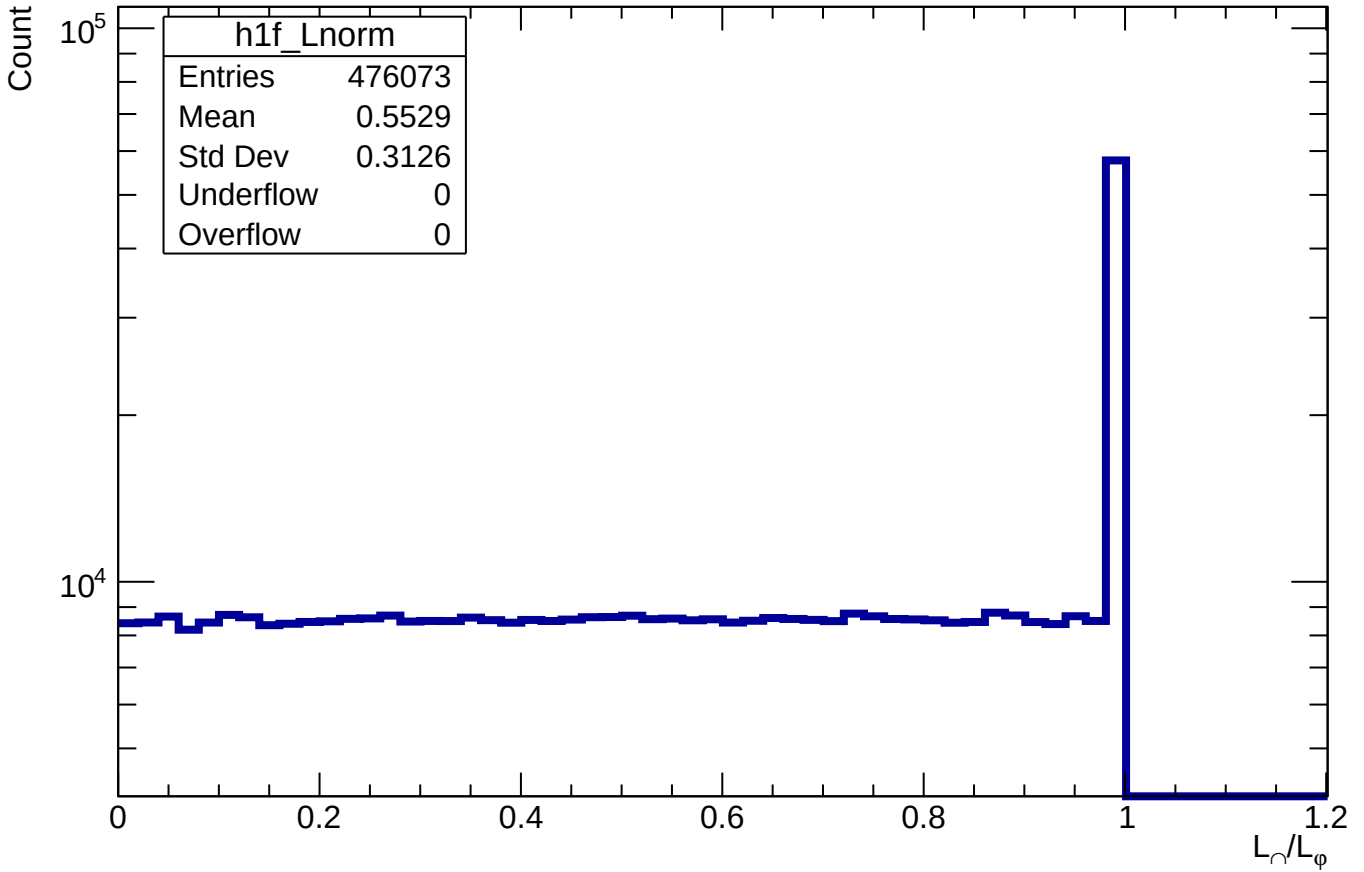

T_{max} of crossed pads
h1f_Tcross
Entries 414206
Mean 342.1
Std Dev 2.611
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

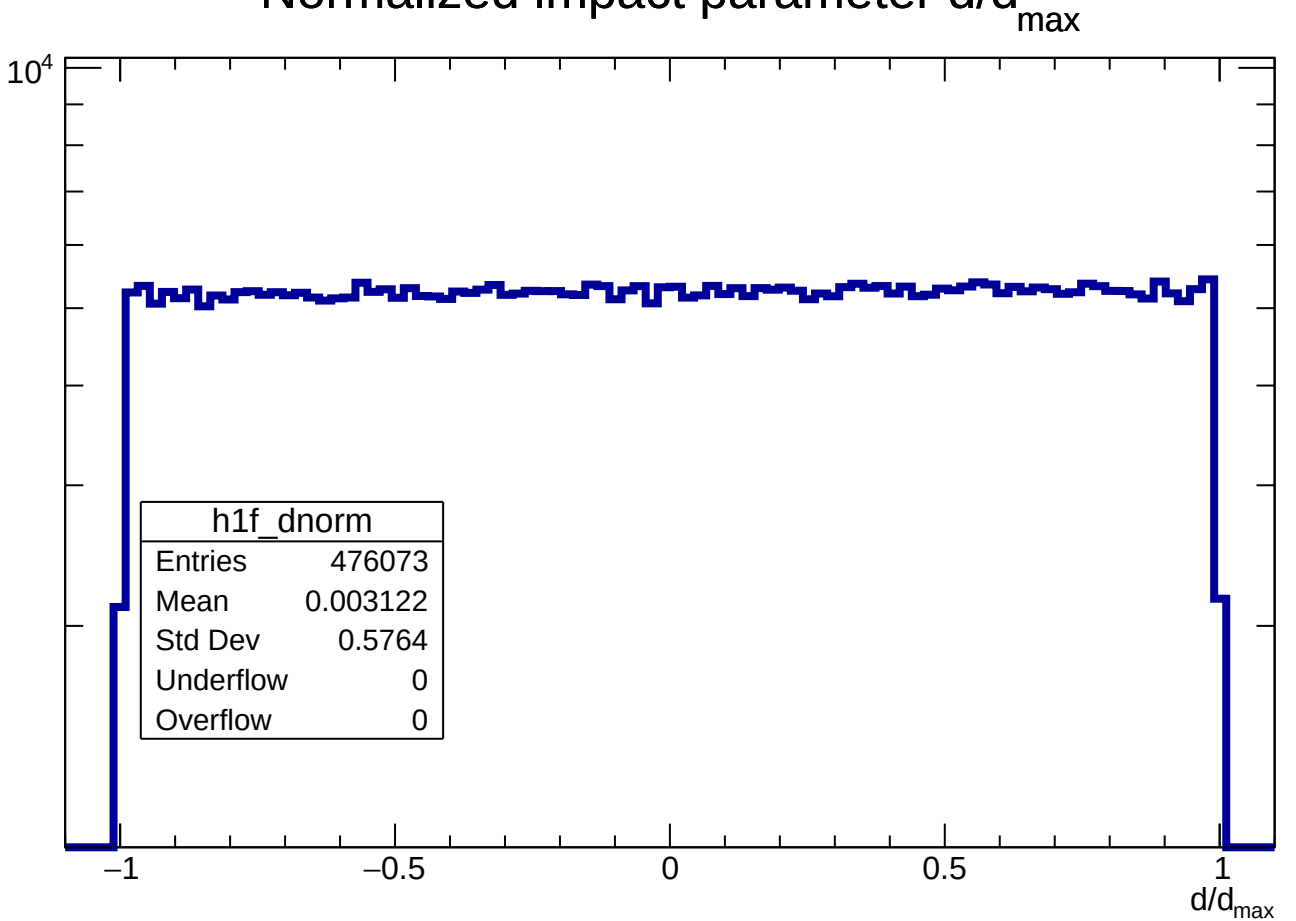

Number of crossed pads
h1f_Ncross
Entries 9071
Mean 45.67
Std Dev 2.034
Underflow 1
Overflow 0
Count
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
15
20
25
30
35
40
45
50
55
60
# of crossed pads

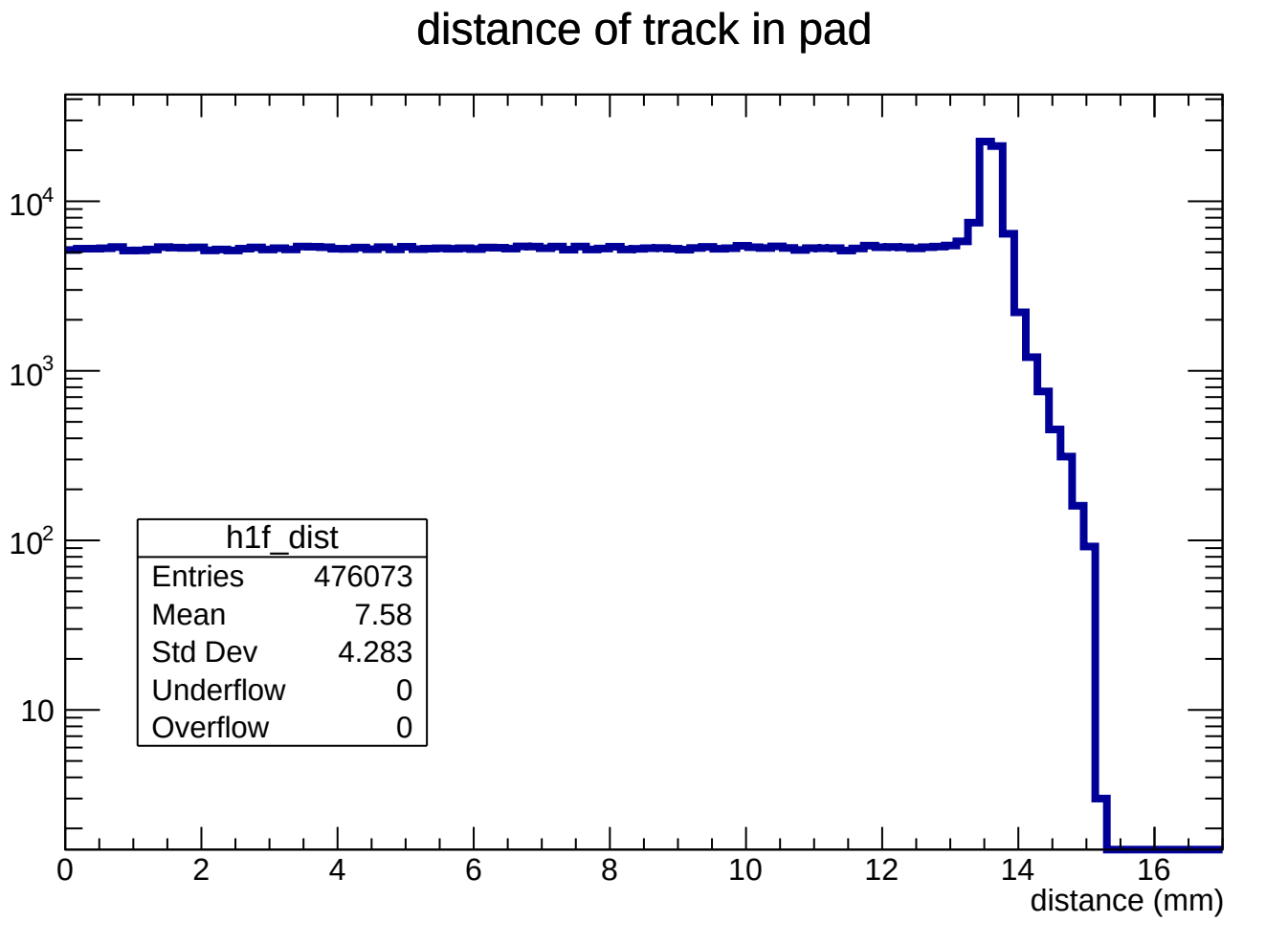

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 9071
Mean −0.08112
Std Dev 18.62
Underflow 3
Overflow 0
Count
0
100
200
300
400
500
600
700
−150
−100
−50
0
50
100
150
difference (ADC count)

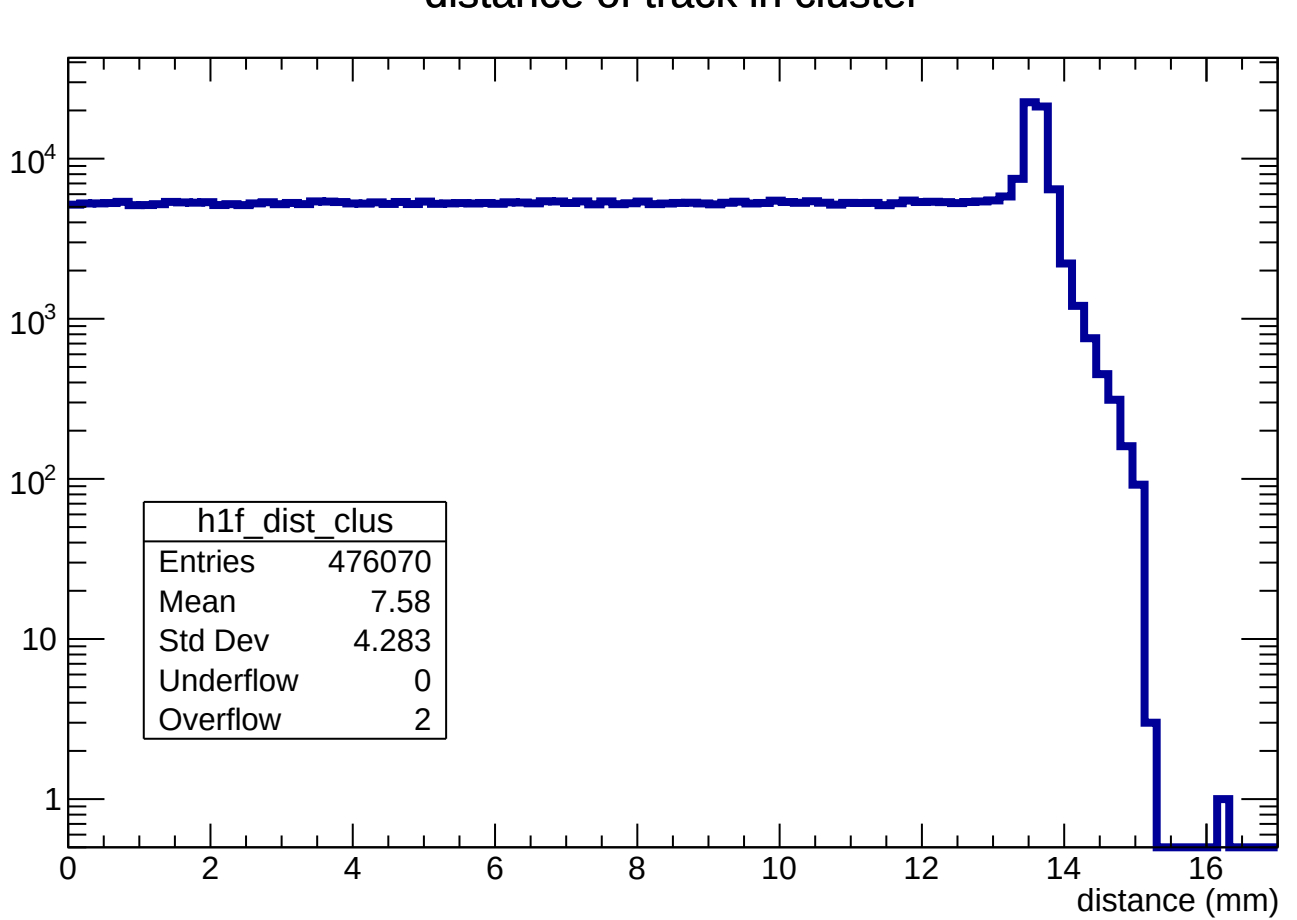

$z_{file = 950mm} - z_{computed}$
$\times 10^3$
Count
h1f_zdiff
Entries 414206
Mean 32.33
Std Dev 8.1
Underflow 0
Overflow 0
100
80
60
40
20
0
−150
−100
−50
0
50
100
150
difference (mm)

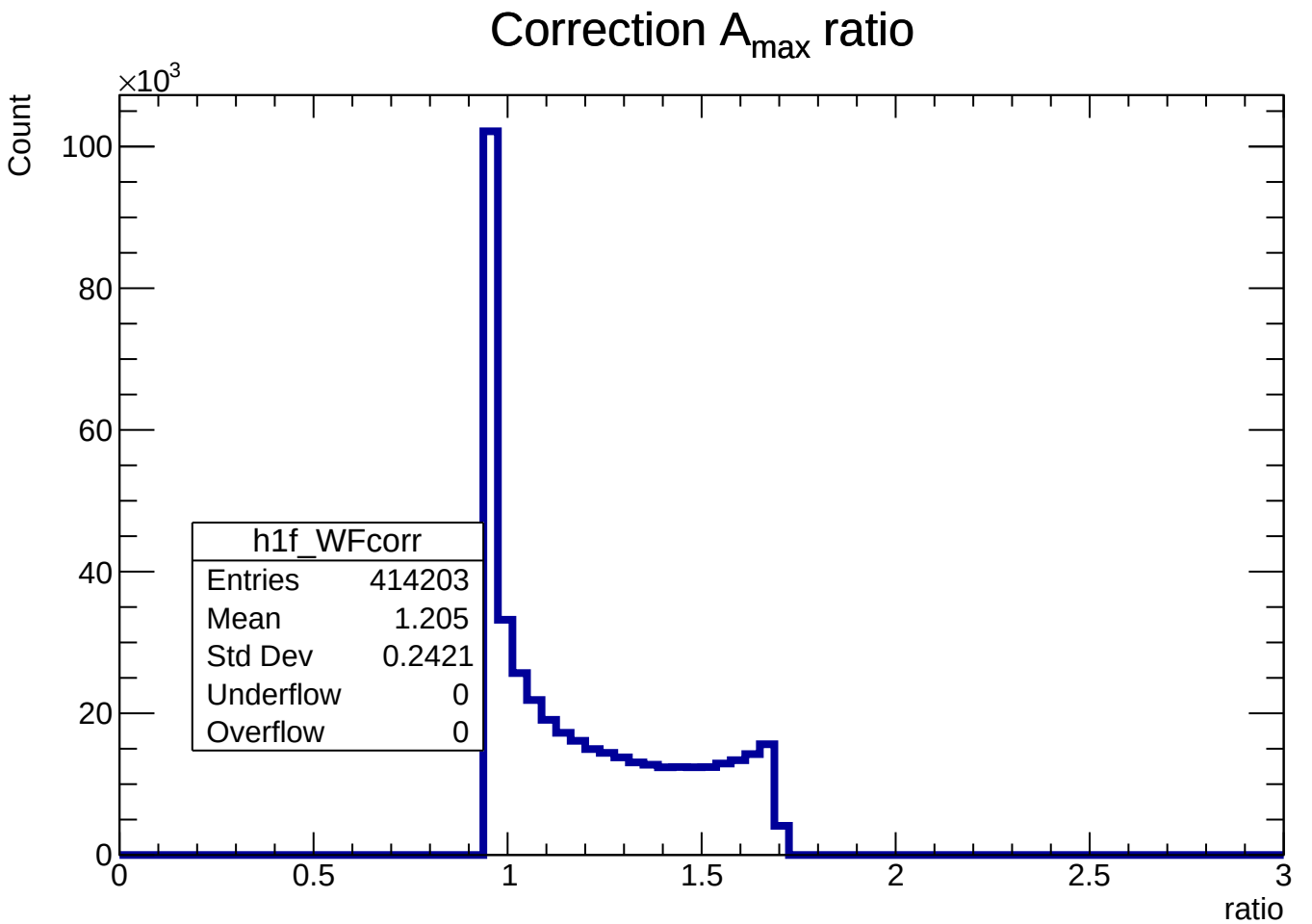

Angle φ in each pad
Count
×10^3
200
180
160
140
120
100
80
60
40
20
0
h1f_angle
Entries 414206
Mean −47.8
Std Dev 2.214
Underflow 88
Overflow 5
−50
−40
−30
−20
−10
0
10
φ (°)

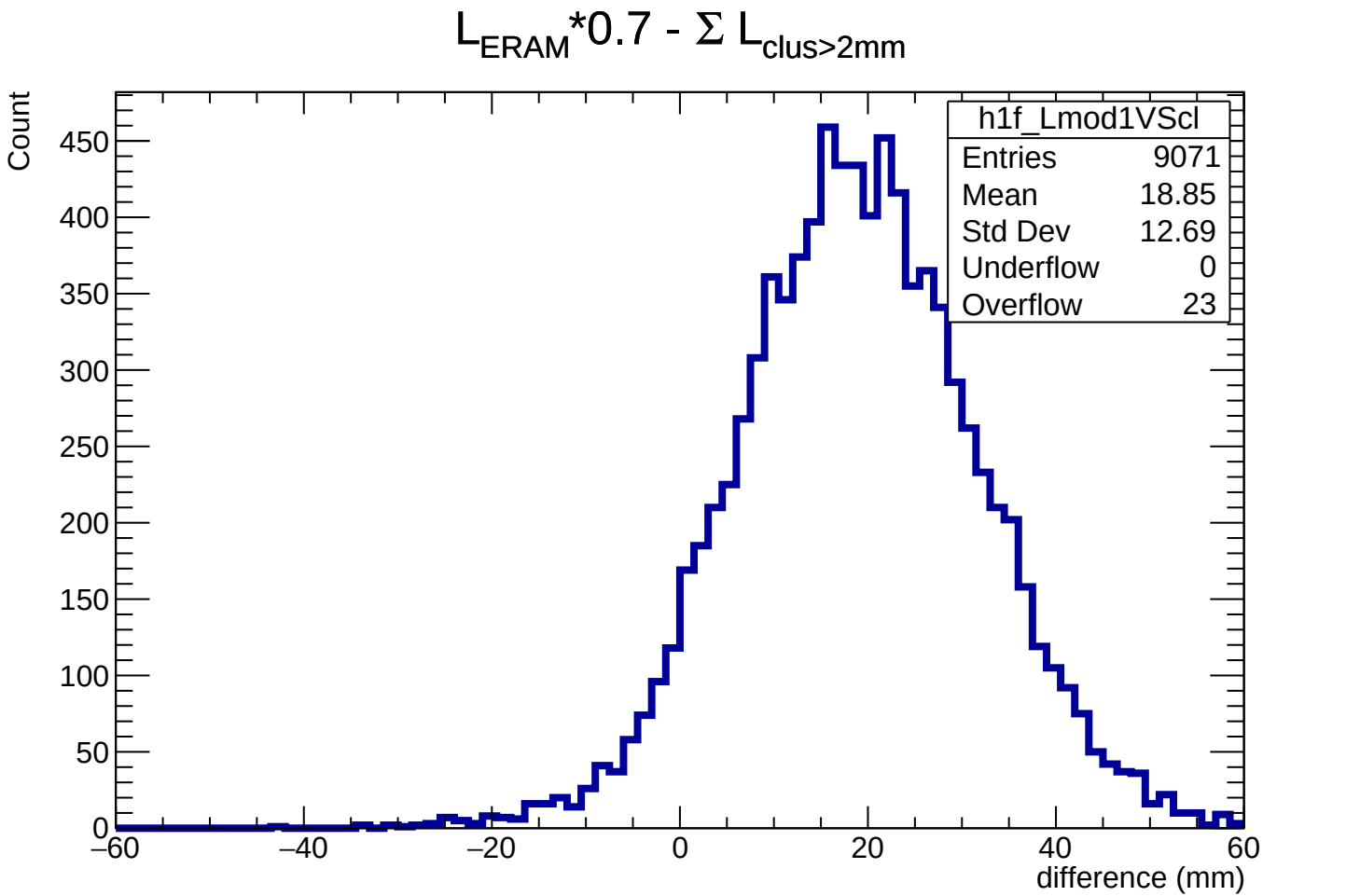

Length in pad normalized to maximum length in pad for a given φ
Count
10^5
10^4
h1f_Lnorm
Entries 476073
Mean 0.5529
Std Dev 0.3126
Underflow 0
Overflow 0
0
0.2
0.4
0.6
0.8
1
1.2
$L_{\cap}/L_{\varphi}$

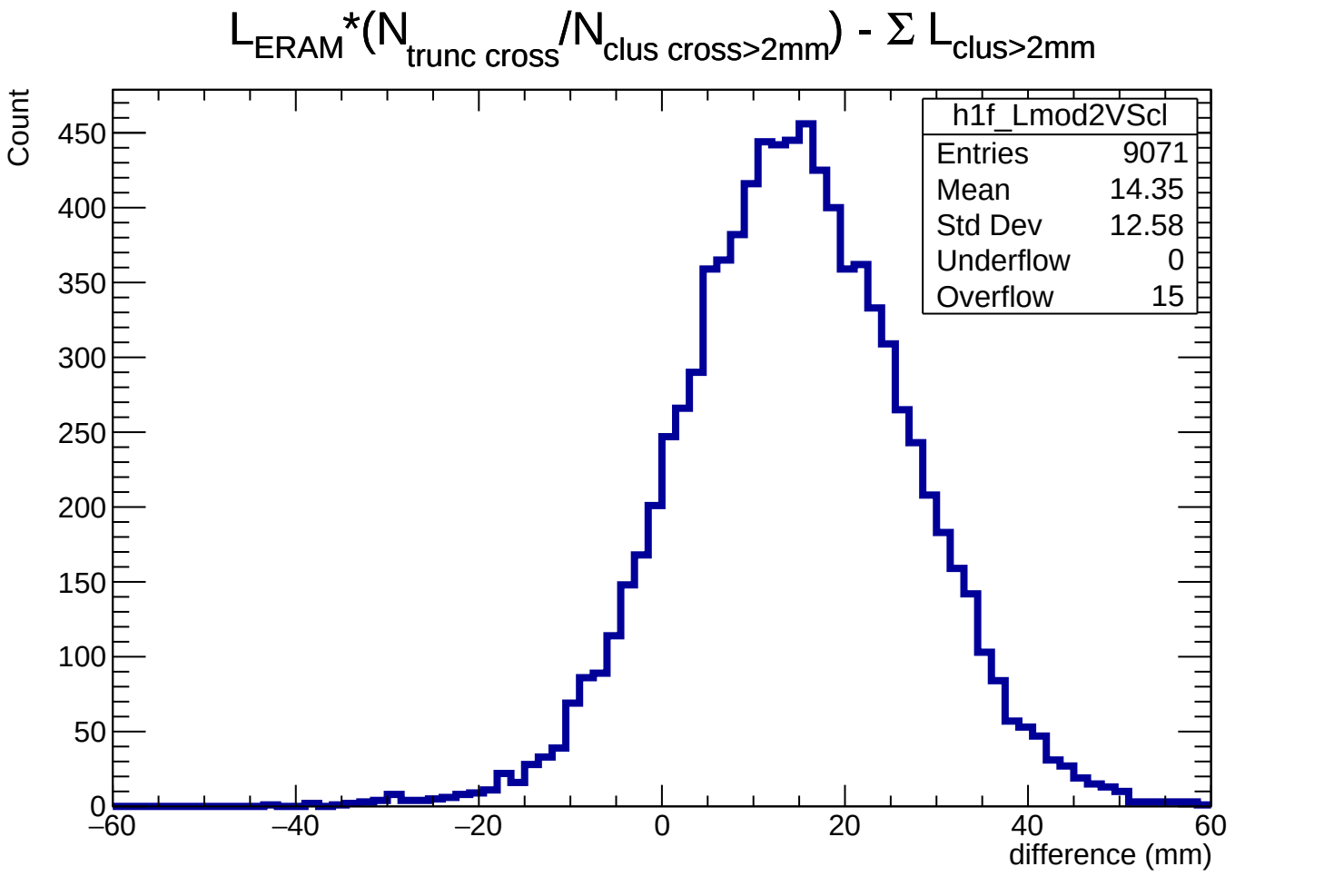

Normalized impact parameter d/d max
10^4
h1f_dnorm
Entries 476073
Mean 0.003122
Std Dev 0.5764
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

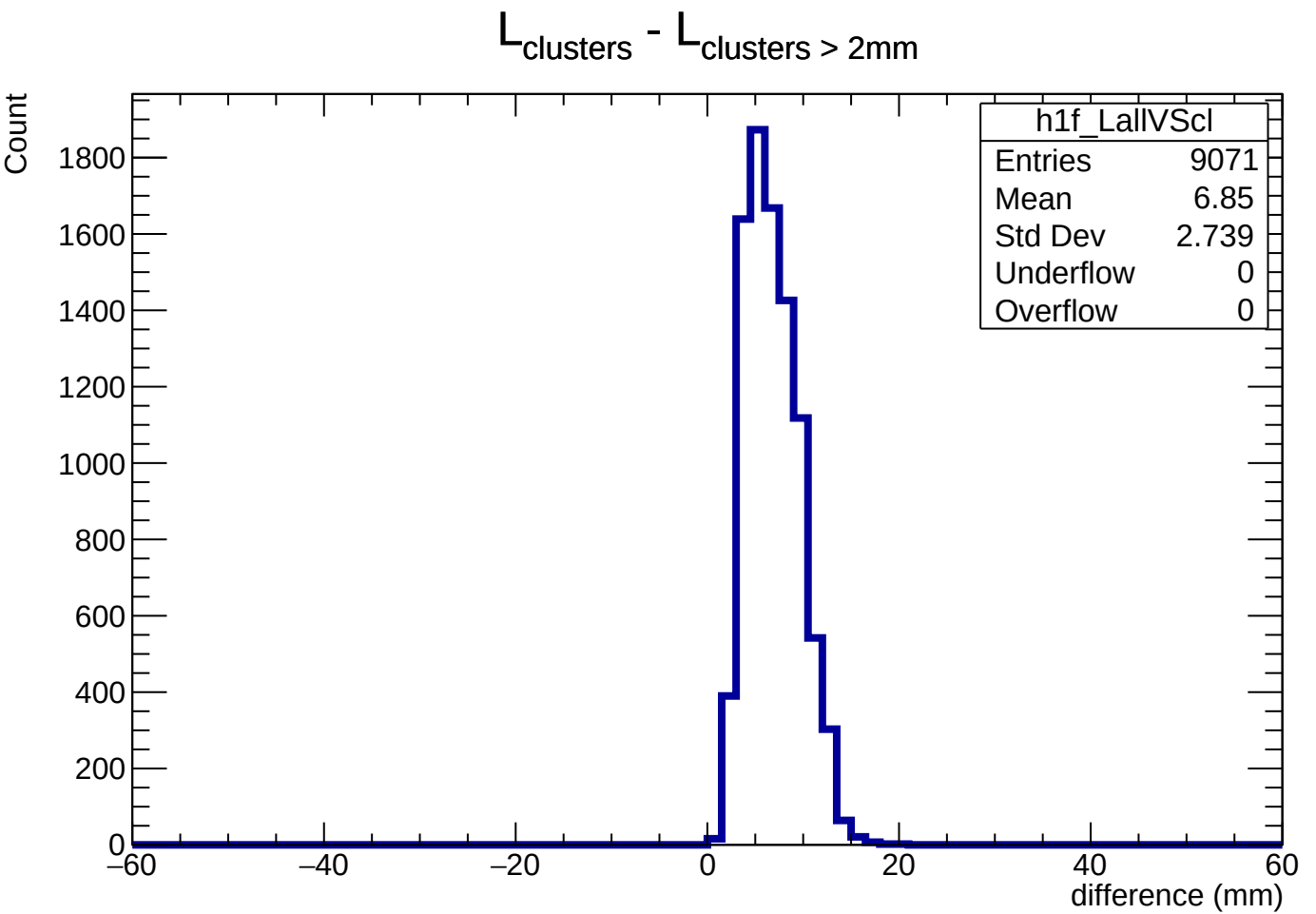

distance of track in pad
10^4
10^3
10^2
10
h1f_dist
Entries 476073
Mean 7.58
Std Dev 4.283
Underflow 0
Overflow 0
0
2
4
6
8
10
12
14
16
distance (mm)

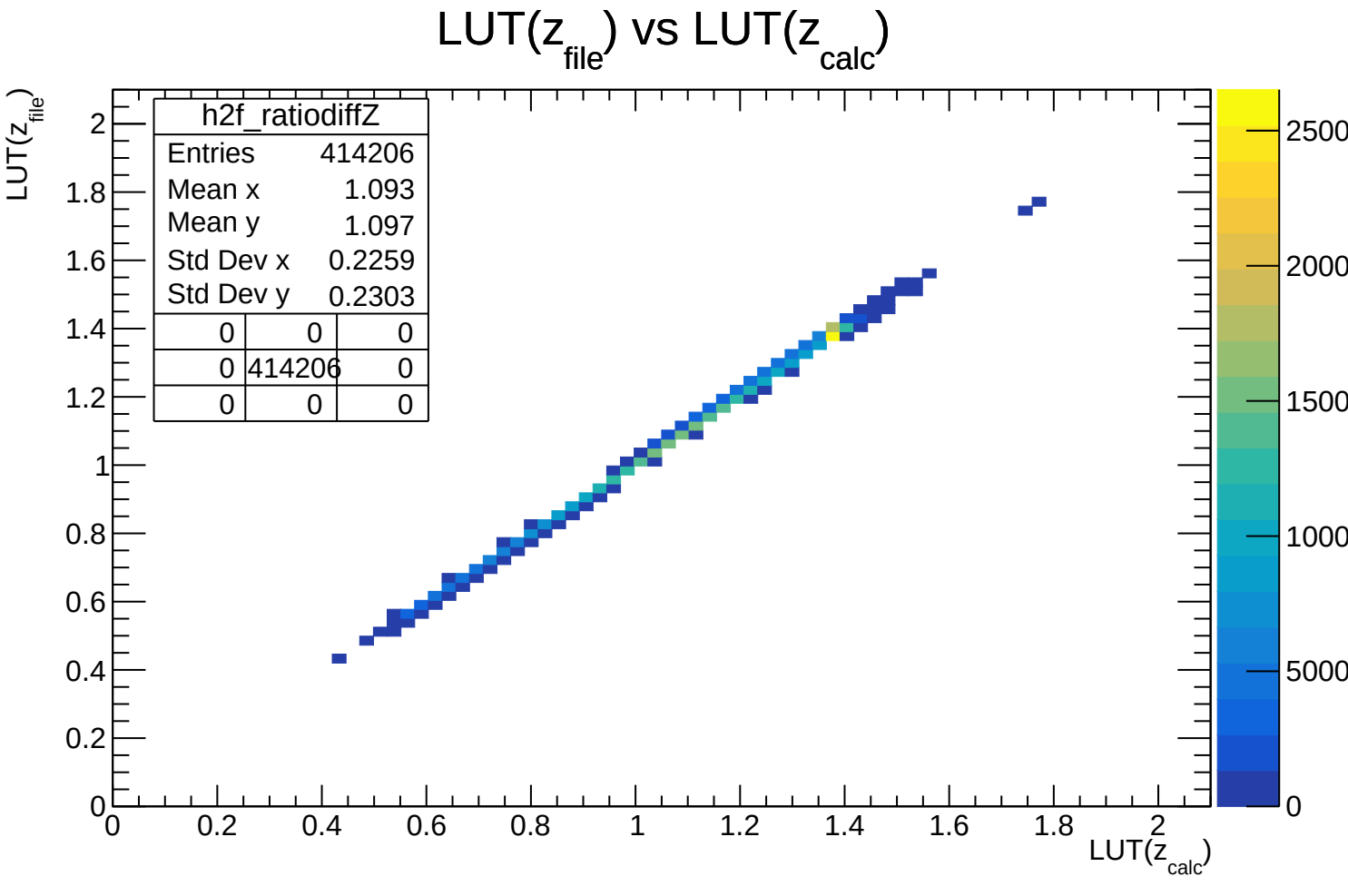

distance of track in cluster
h1f_dist_clus
Entries 476070
Mean 7.58
Std Dev 4.283
Underflow 0
Overflow 2
distance (mm)

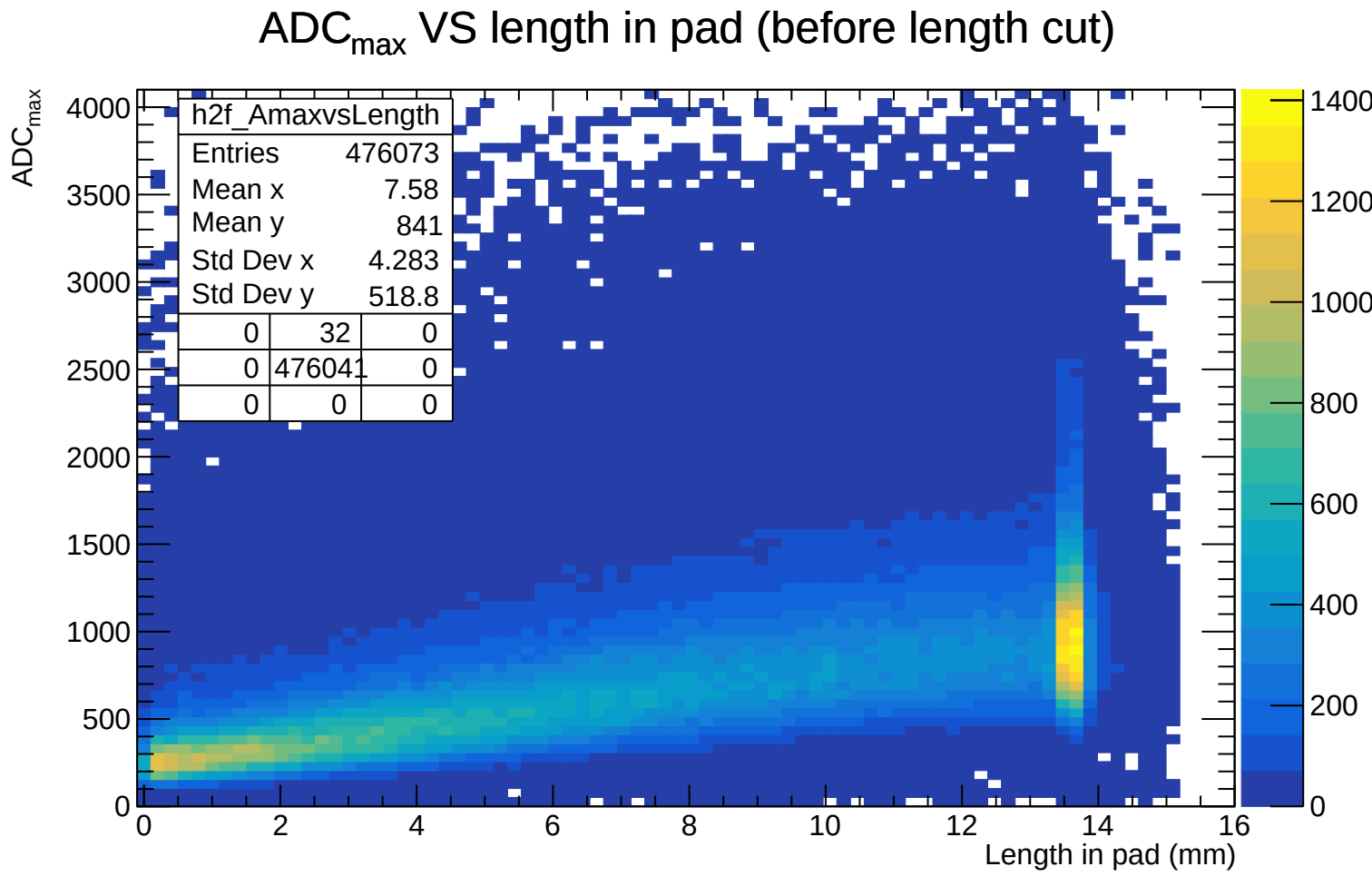

Correction A_{max} ratio
$\times 10^3$
Count
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 414203
Mean 1.205
Std Dev 0.2421
Underflow 0
Overflow 0

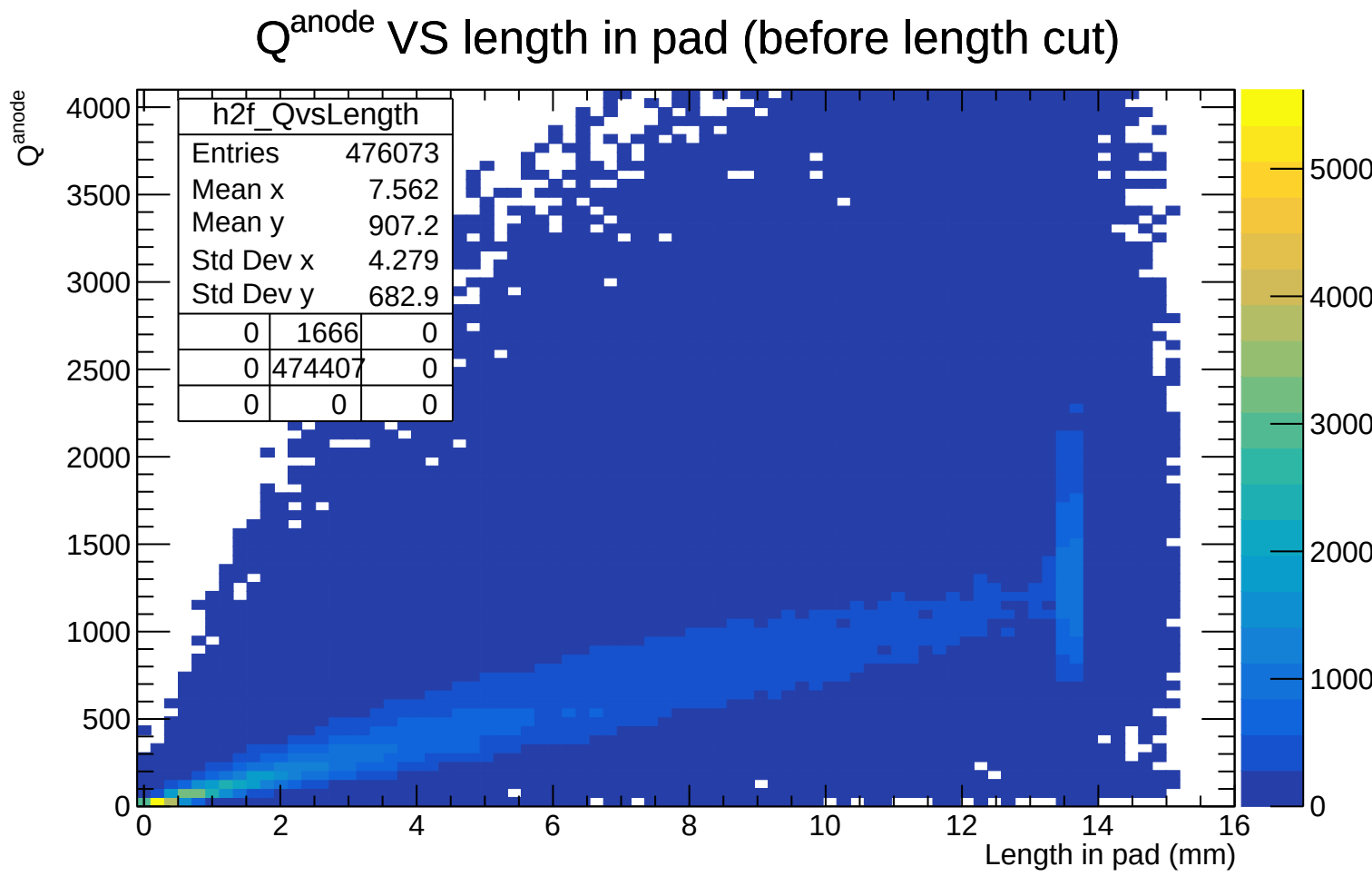

L_{ERAM}*0.7 - Σ $L_{clus>2mm}$
Count
450
400
350
300
250
200
150
100
50
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod1VScl
Entries 9071
Mean 18.85
Std Dev 12.69
Underflow 0
Overflow 23

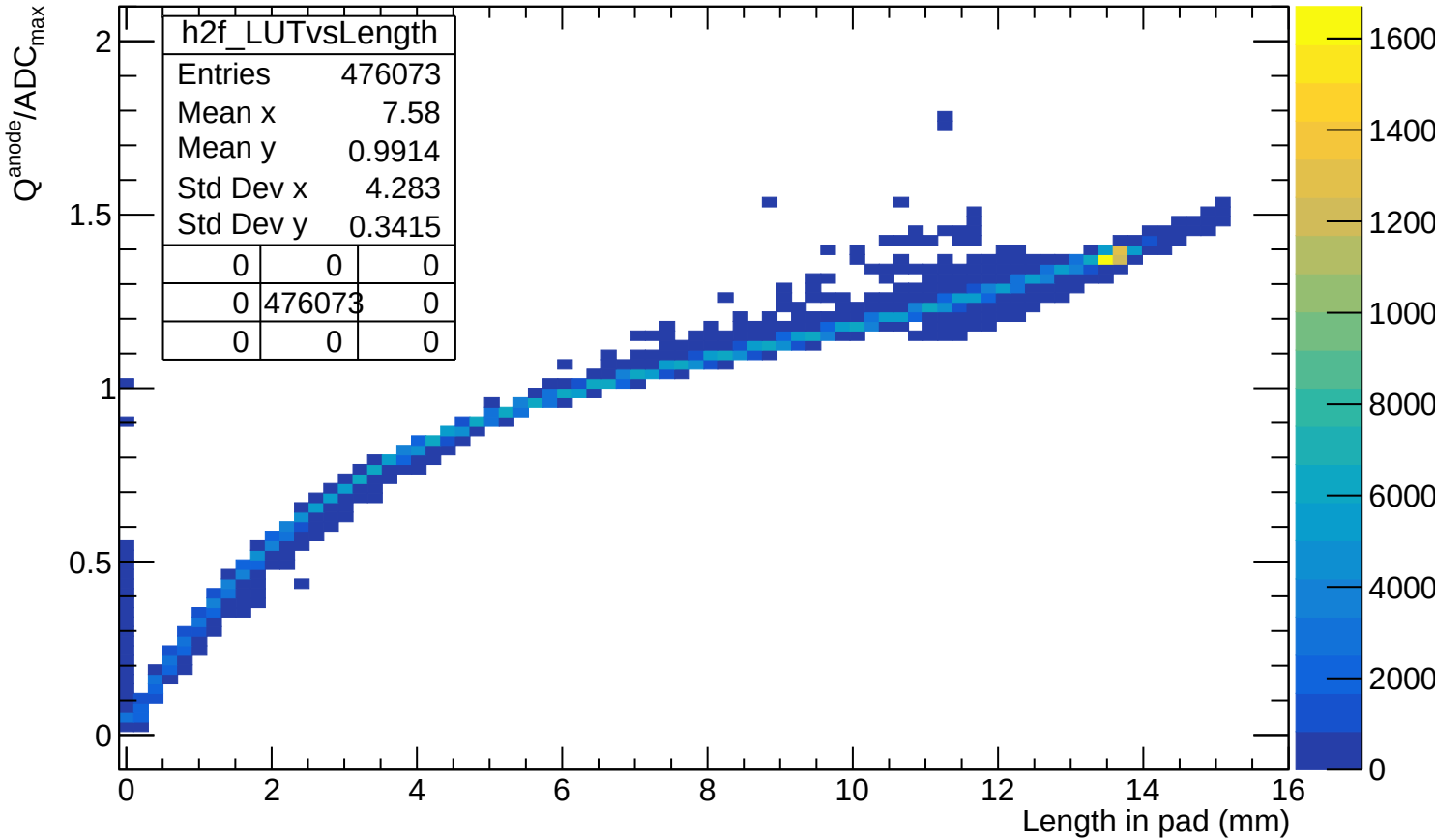

$L_{ERAM}*(N_{trunc\ cross}/N_{clus\ cross>2mm}) - \Sigma\ L_{clus>2mm}$
Count
450
400
350
300
250
200
150
100
50
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod2VScl
Entries 9071
Mean 14.35
Std Dev 12.58
Underflow 0
Overflow 15

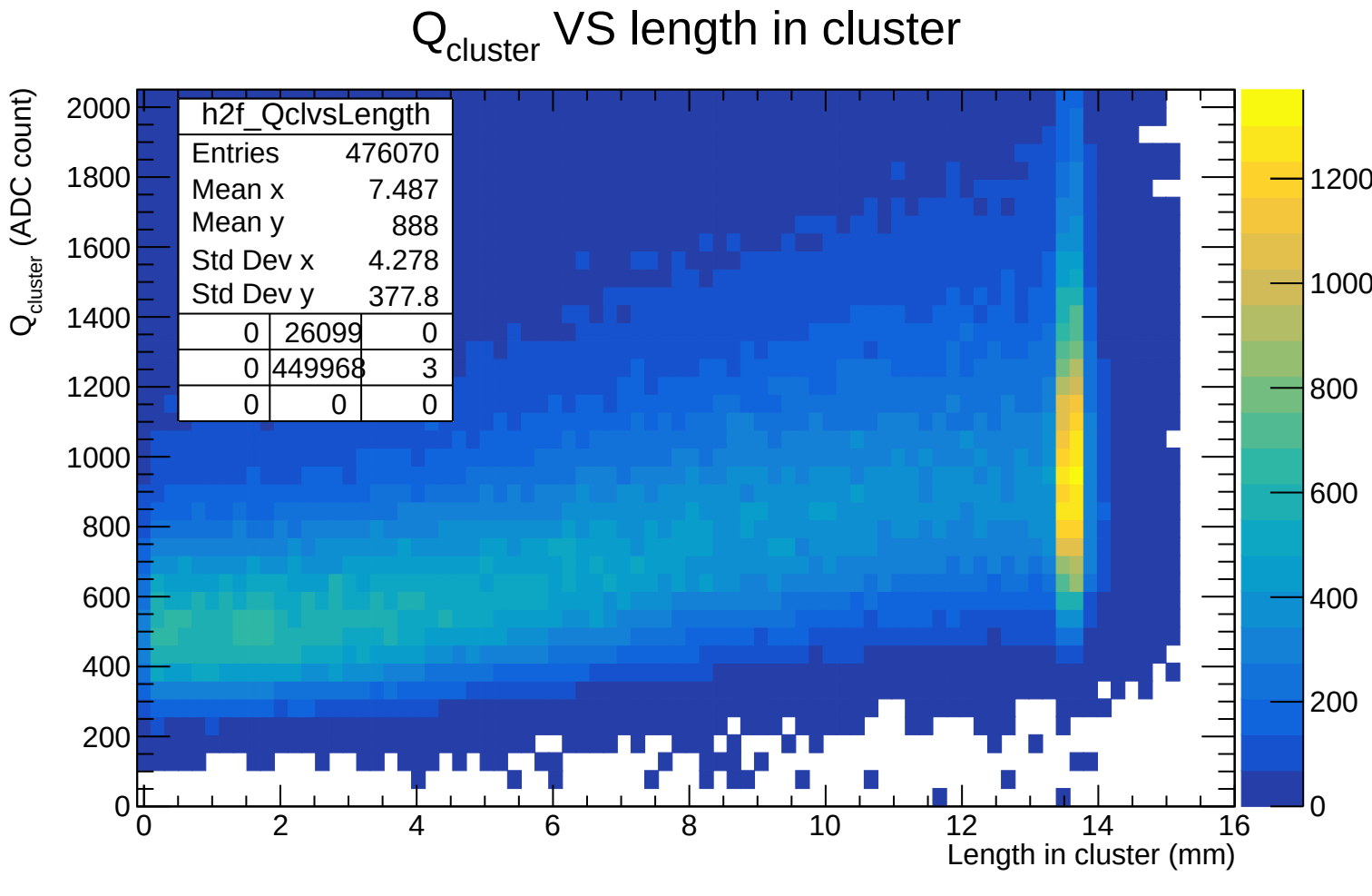

L clusters - L clusters > 2mm
Count
1800
1600
1400
1200
1000
800
600
400
200
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_LallVScl
Entries 9071
Mean 6.85
Std Dev 2.739
Underflow 0
Overflow 0

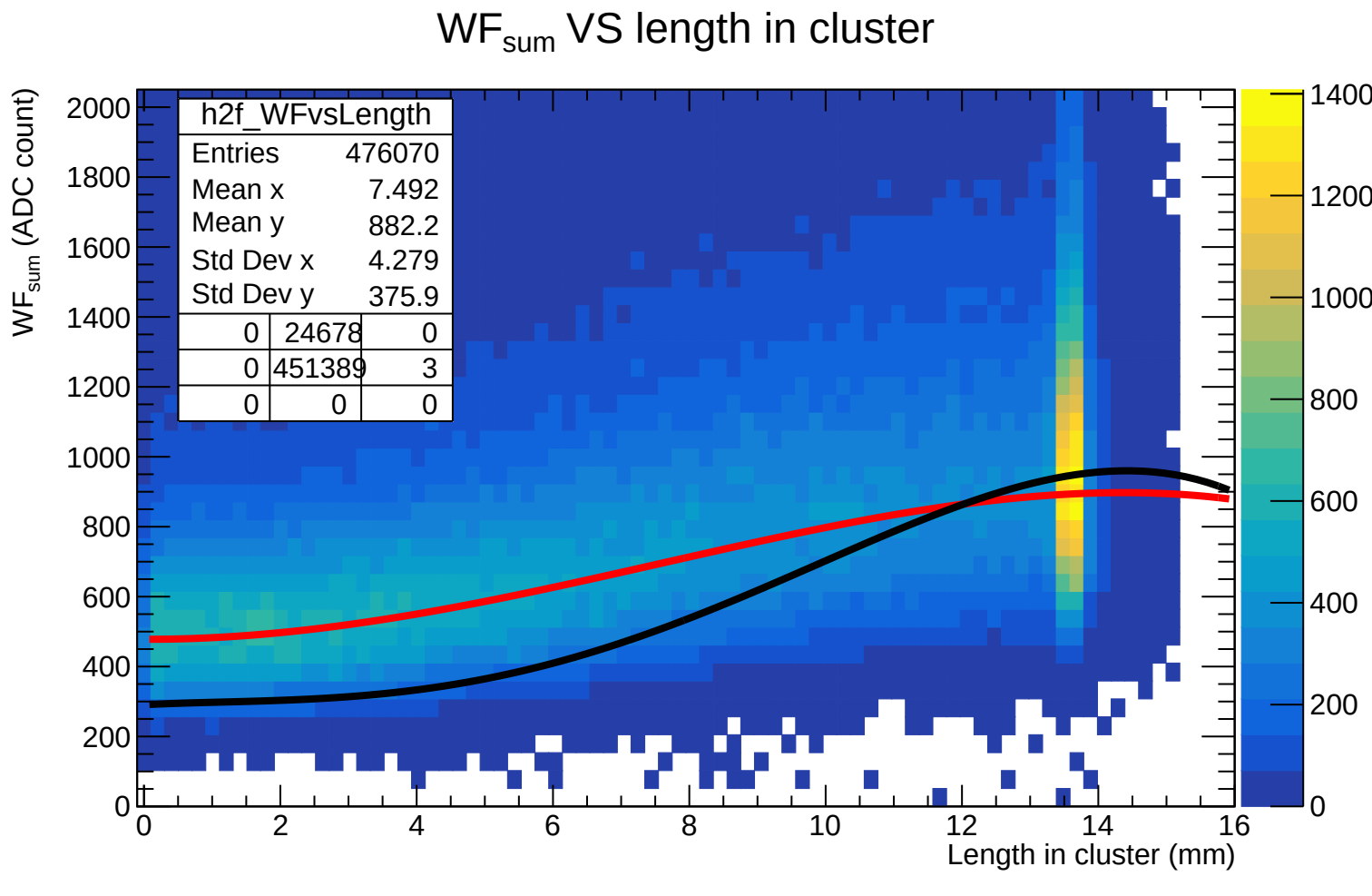

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 414206
Mean x 1.093
Mean y 1.097
Std Dev x 0.2259
Std Dev y 0.2303
0 0 0
0 414206 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5000 1000 1500 2000 2500

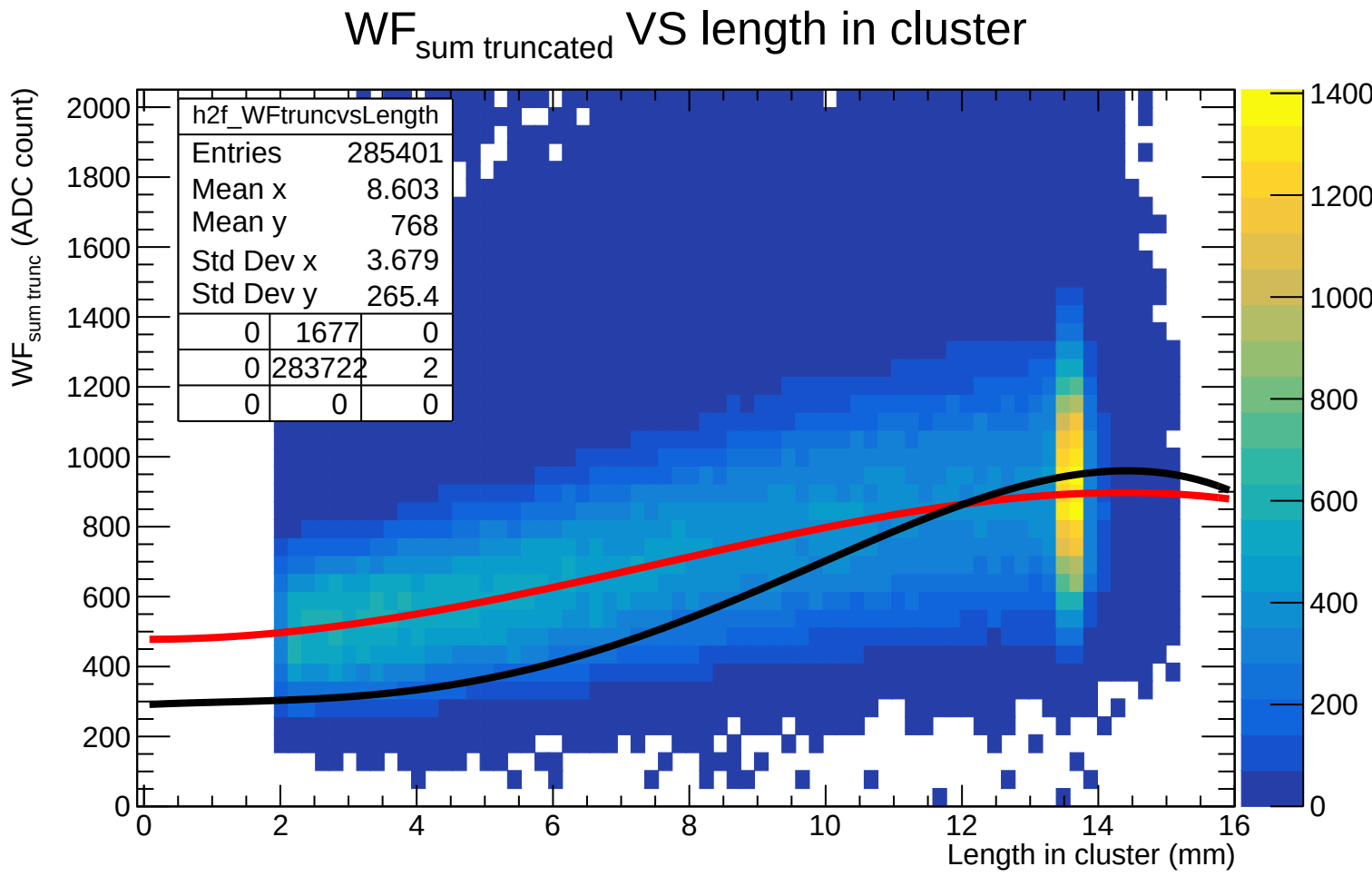

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 476073
Mean x 7.58
Mean y 841
Std Dev x 4.283
Std Dev y 518.8
0 32 0
0 476041 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
0
200
400
600
800
1000
1200
1400

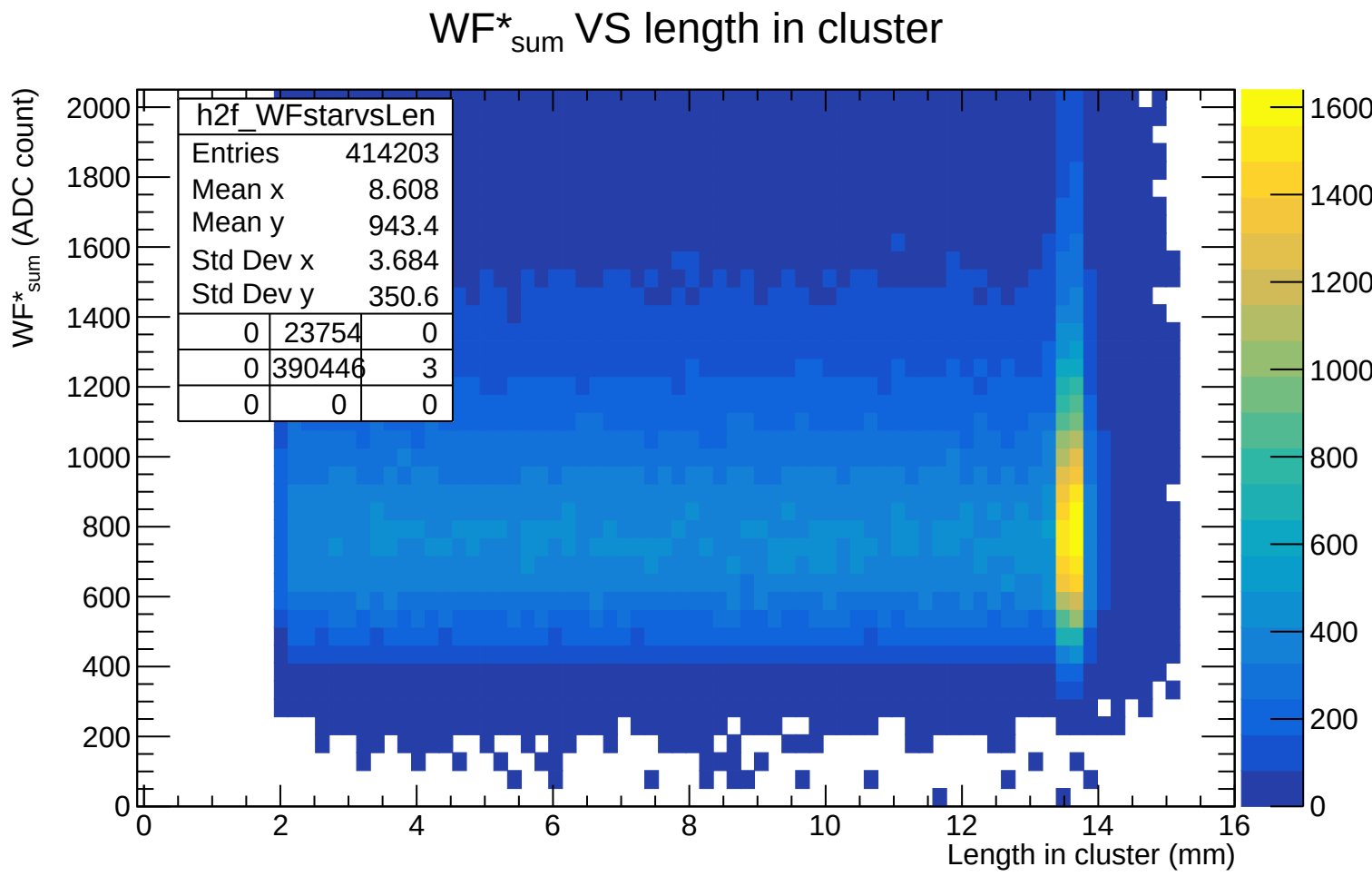

Q^anode VS length in pad (before length cut)
h2f_QvsLength
Entries 476073
Mean x 7.562
Mean y 907.2
Std Dev x 4.279
Std Dev y 682.9
0 1666 0
0 474407 0
0 0 0
Q^anode
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
1000
2000
3000
4000
5000

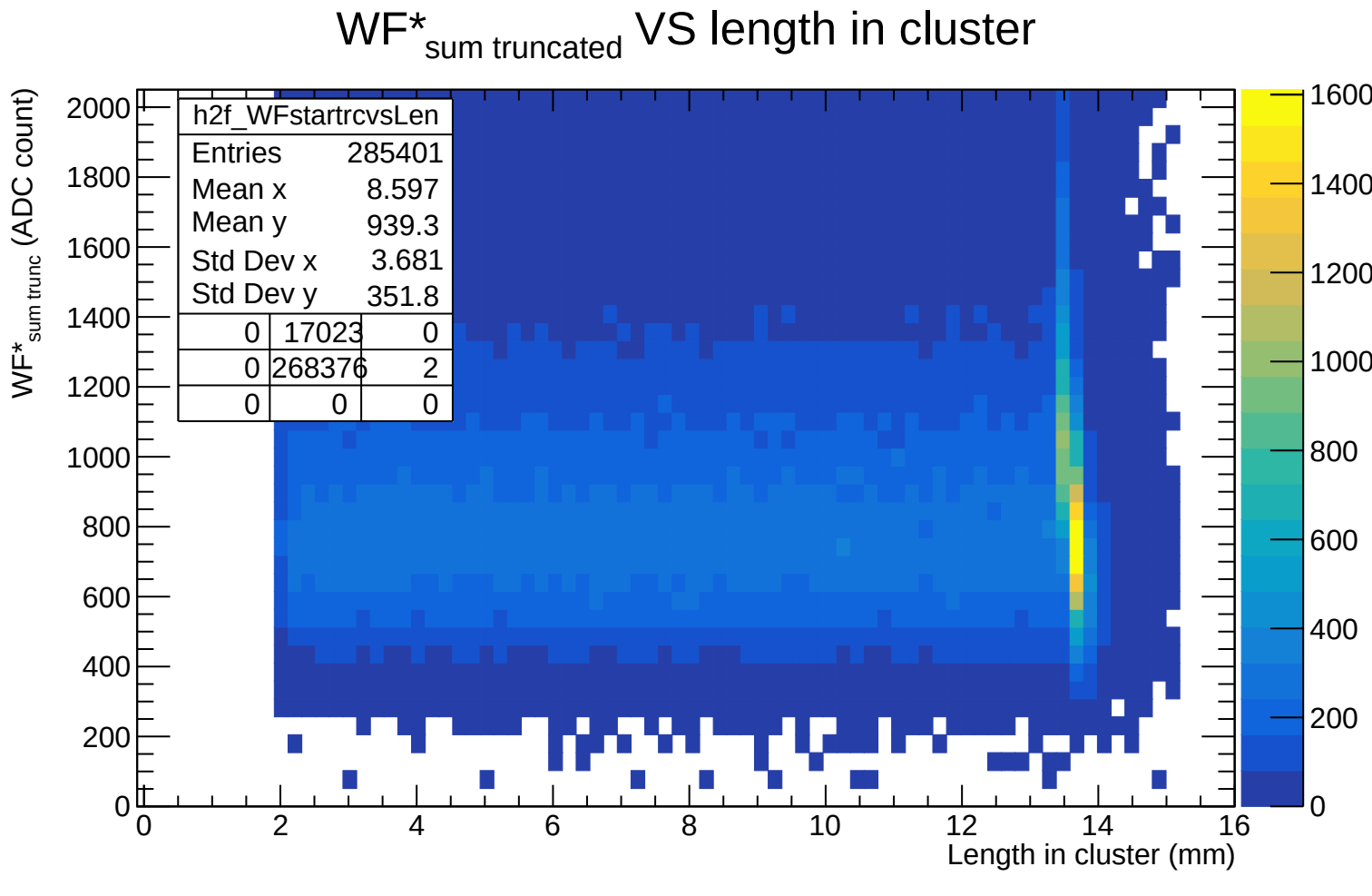

Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 476073
Mean x 7.58
Mean y 0.9914
Std Dev x 4.283
Std Dev y 0.3415
0 0 0
0 476073 0
0 0 0
Q^{anode}/ADC_{max}
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
2000
4000
6000
8000
1000
1200
1400
1600

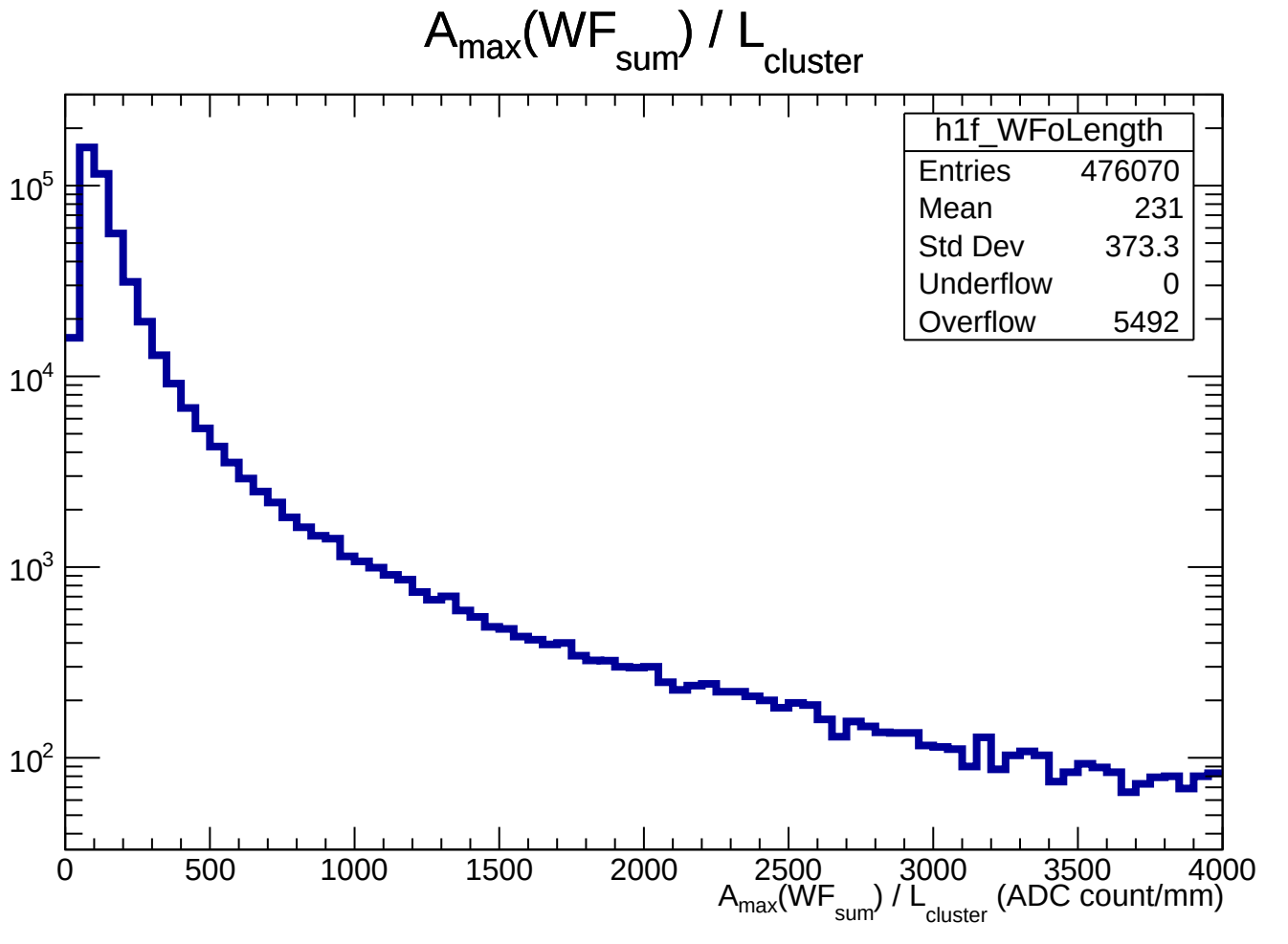

$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 476070
Mean x 7.487
Mean y 888
Std Dev x 4.278
Std Dev y 377.8
0 26099 0
0 449968 3
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
0
200
400
600
800
1000
1200

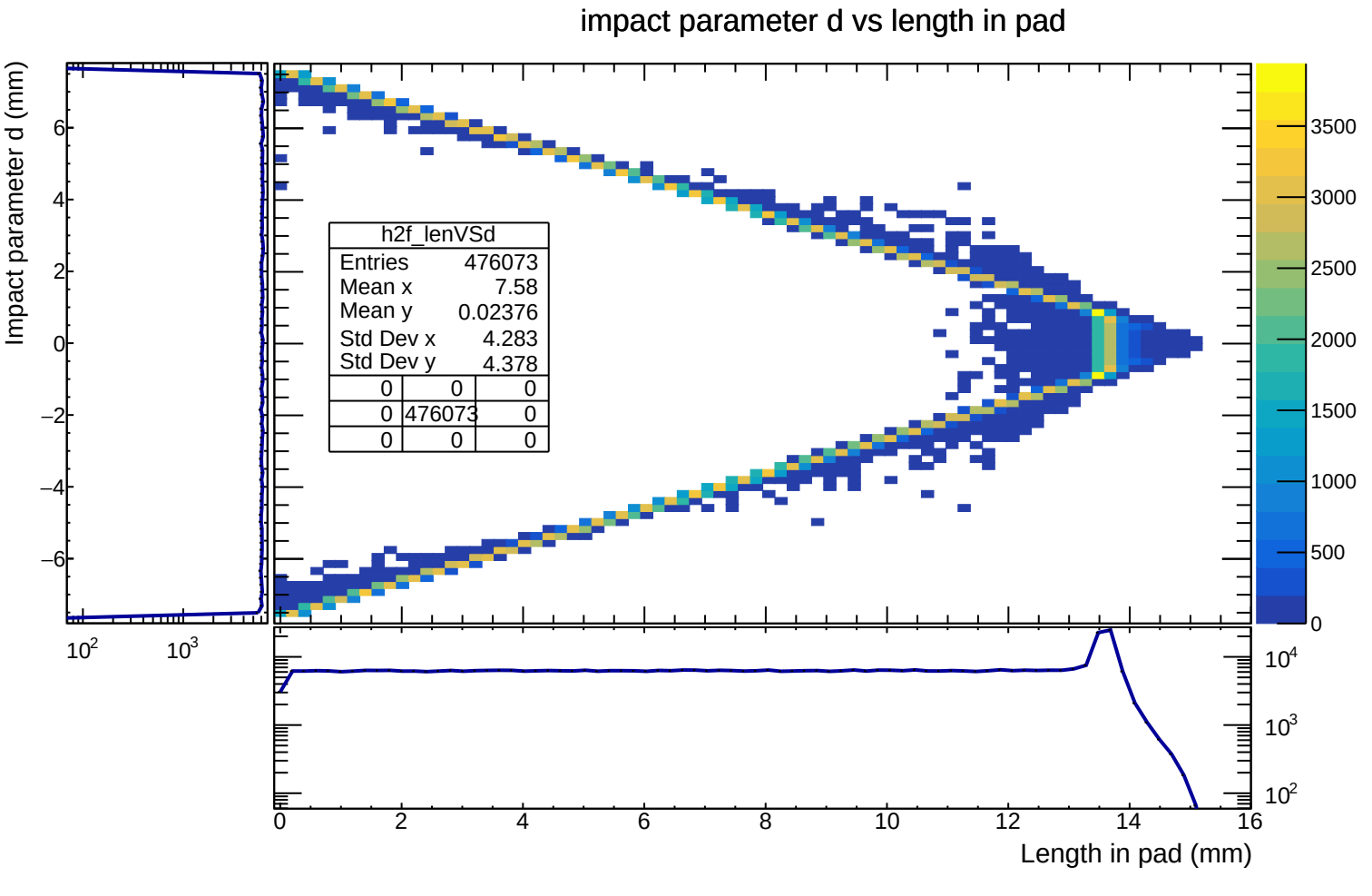

WF$_{sum}$ VS length in cluster
WF$_{sum}$ (ADC count)
Length in cluster (mm)
h2f_WFvsLength
Entries 476070
Mean x 7.492
Mean y 882.2
Std Dev x 4.279
Std Dev y 375.9
0 24678 0
0 451389 3
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400


WF sum truncated VS length in cluster
WF sum trunc (ADC count)
Length in cluster (mm)
h2f_WFtruncvsLength
Entries 285401
Mean x 8.603
Mean y 768
Std Dev x 3.679
Std Dev y 265.4
0 1677 0
0 283722 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


WF*sum VS length in cluster
h2f_WFstarvsLen
Entries 414203
Mean x 8.608
Mean y 943.4
Std Dev x 3.684
Std Dev y 350.6
0 23754 0
0 390446 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


WF*sum truncated VS length in cluster
h2f_WFstartrcvsLen
Entries 285401
Mean x 8.597
Mean y 939.3
Std Dev x 3.681
Std Dev y 351.8
0 17023 0
0 268376 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


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 476070
Mean 231
Std Dev 373.3
Underflow 0
Overflow 5492
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 476073
Mean x 7.58
Mean y 0.02376
Std Dev x 4.283
Std Dev y 4.378
0 0 0
0 476073 0
0 0 0