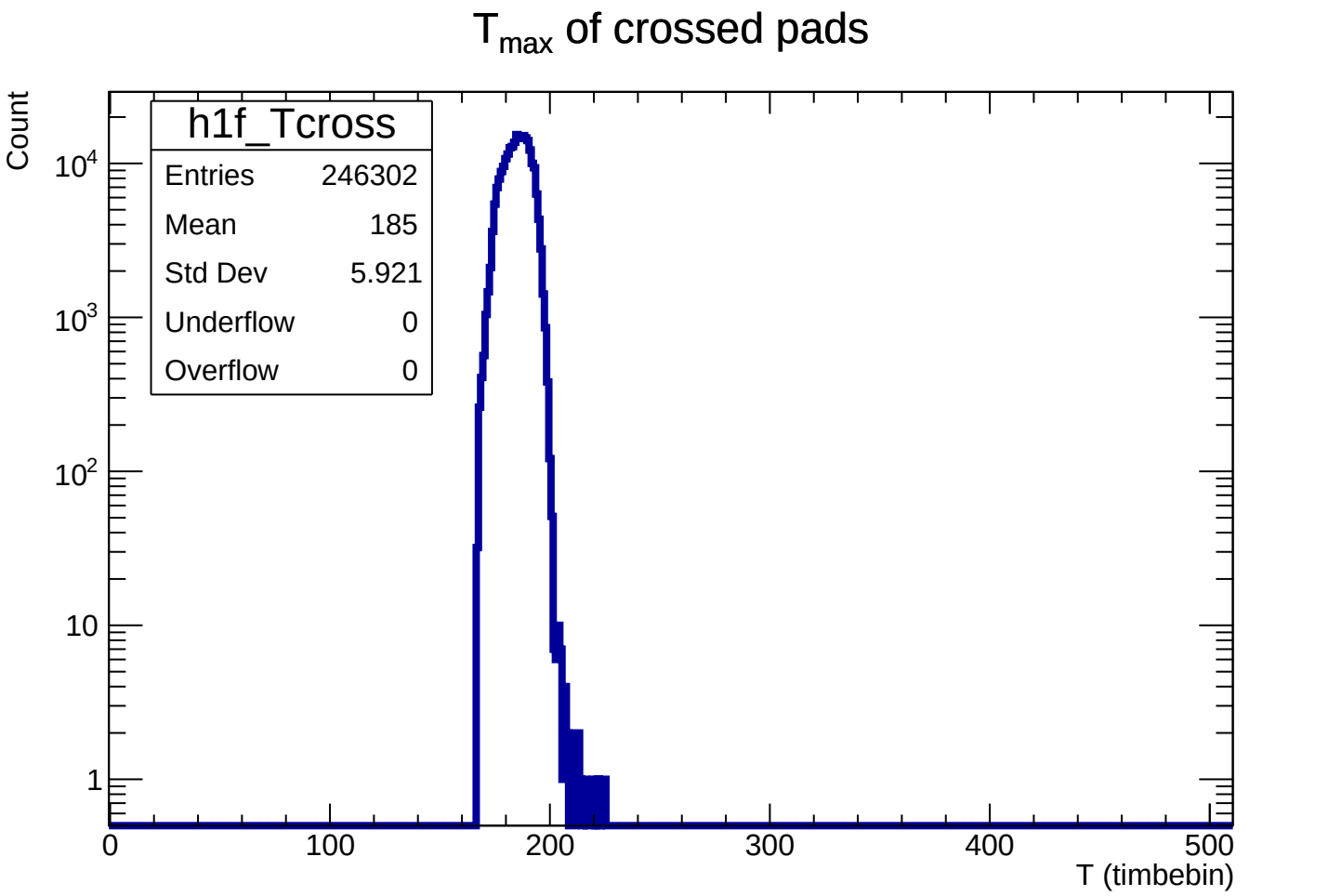
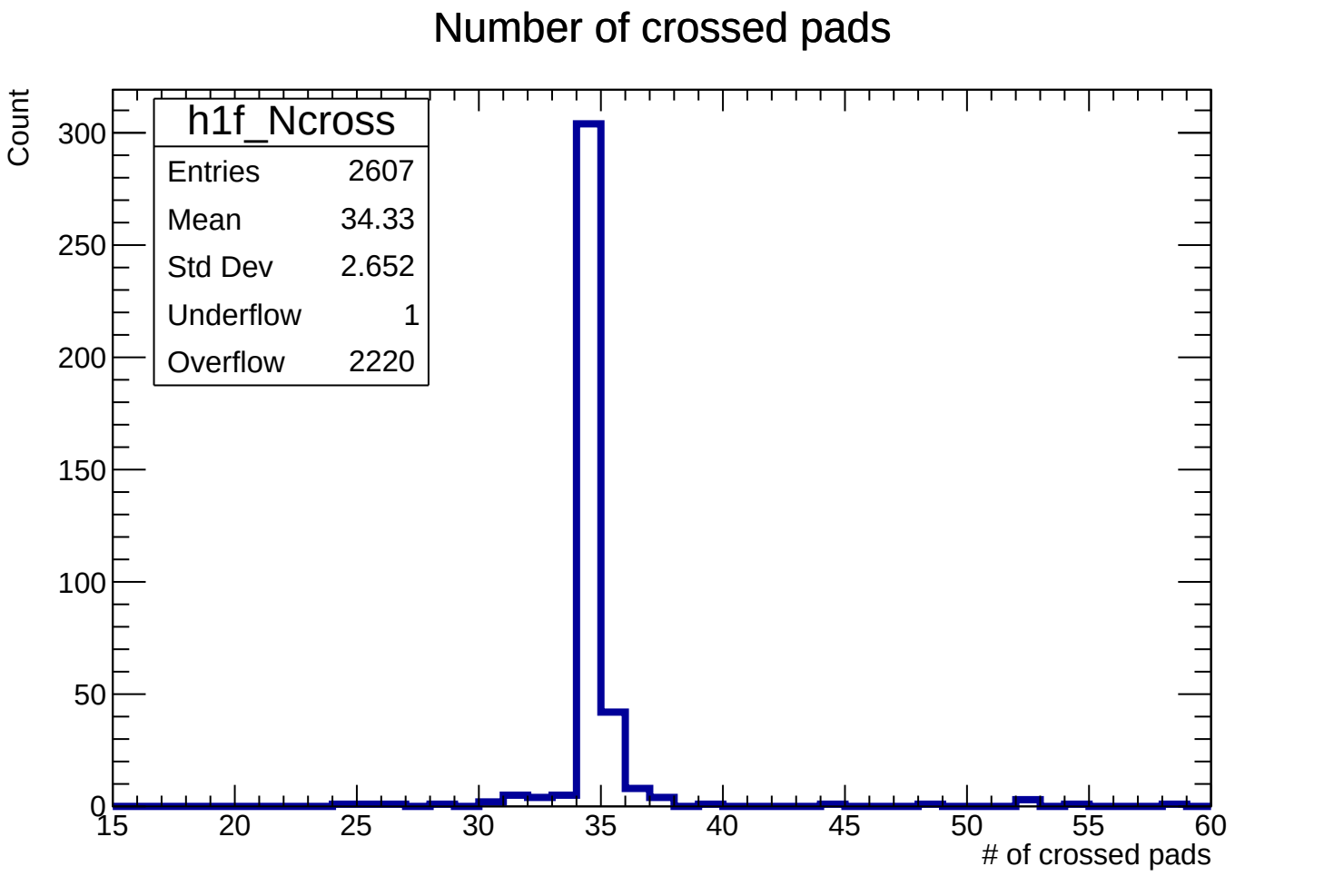
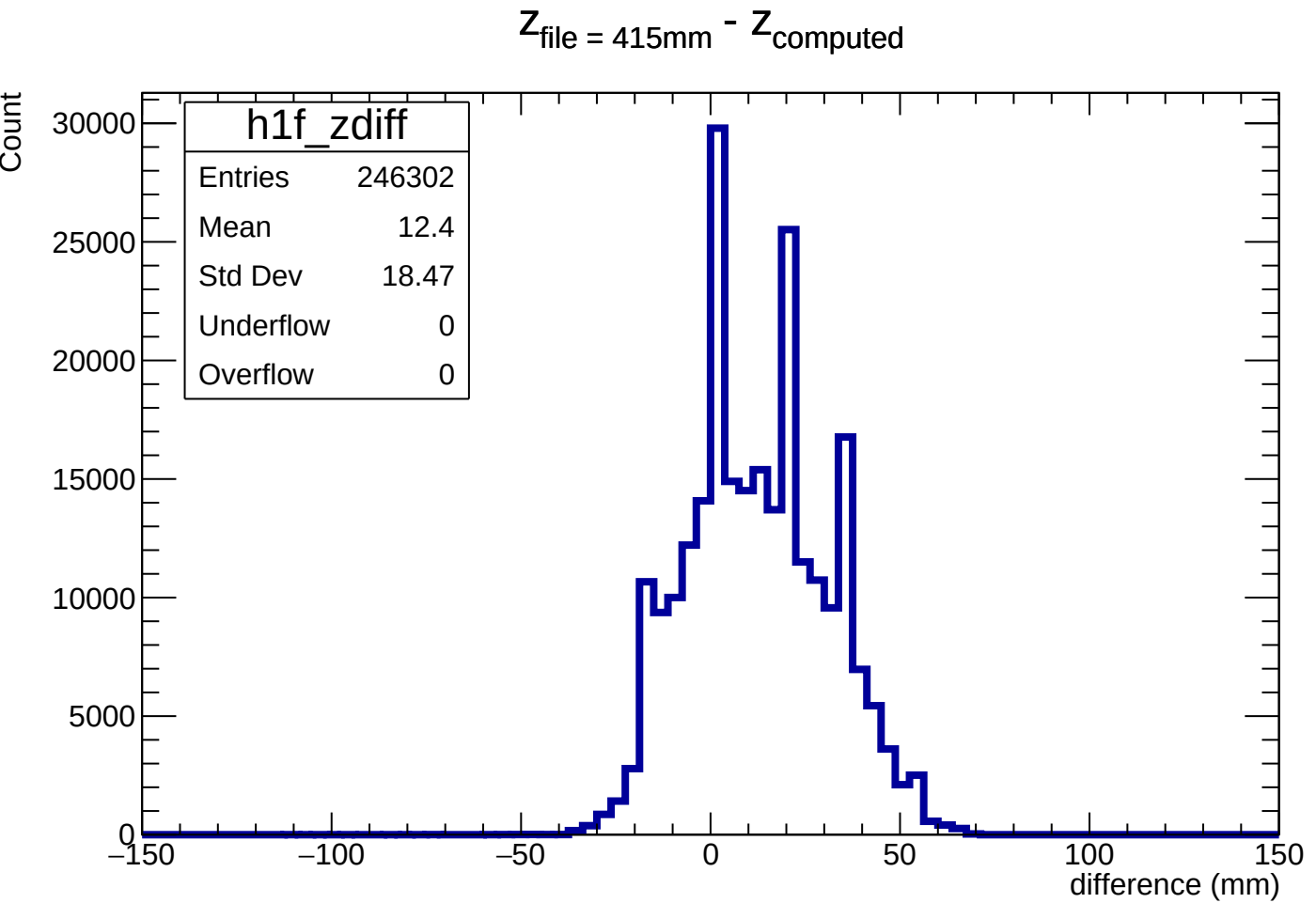
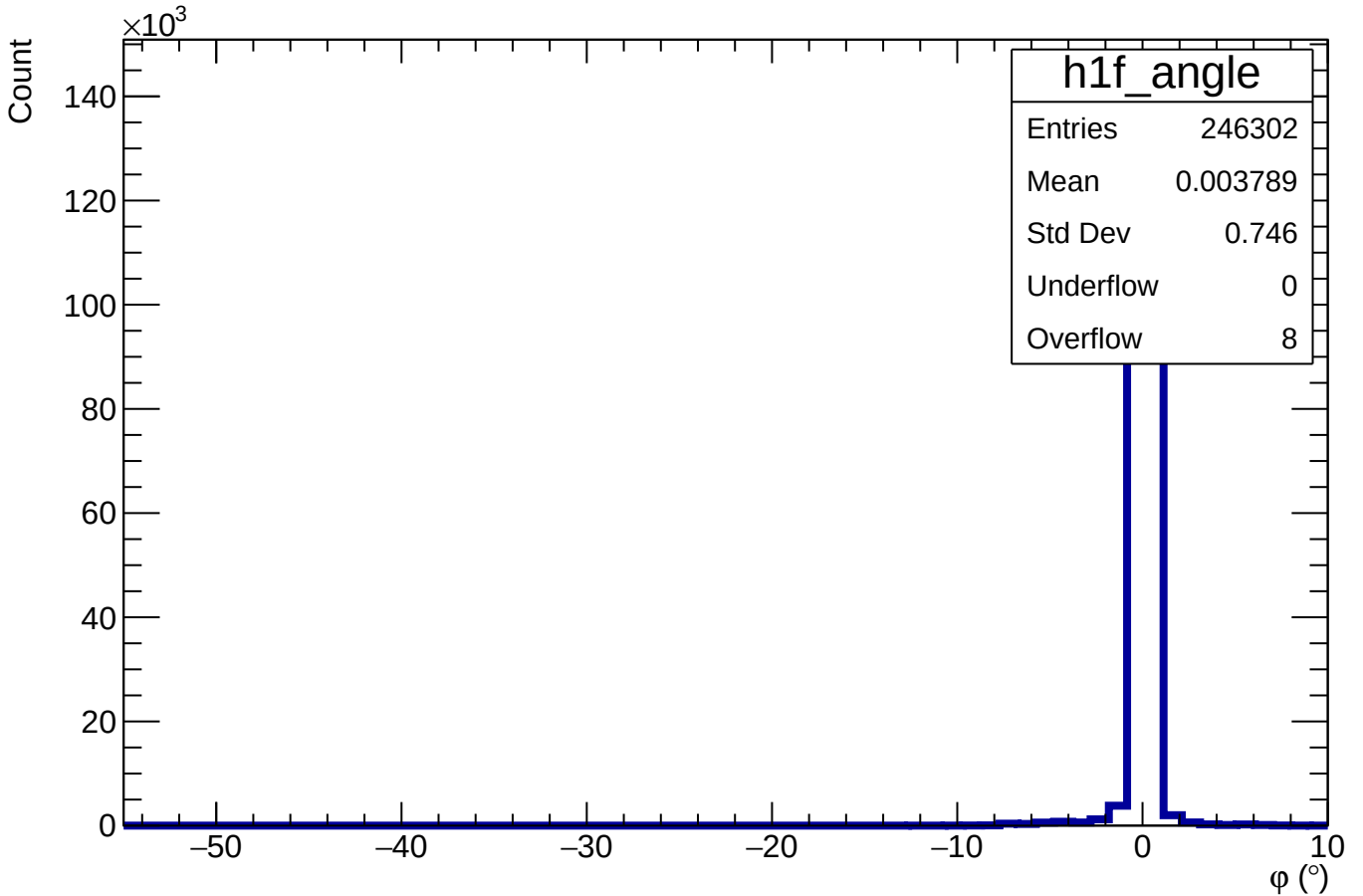
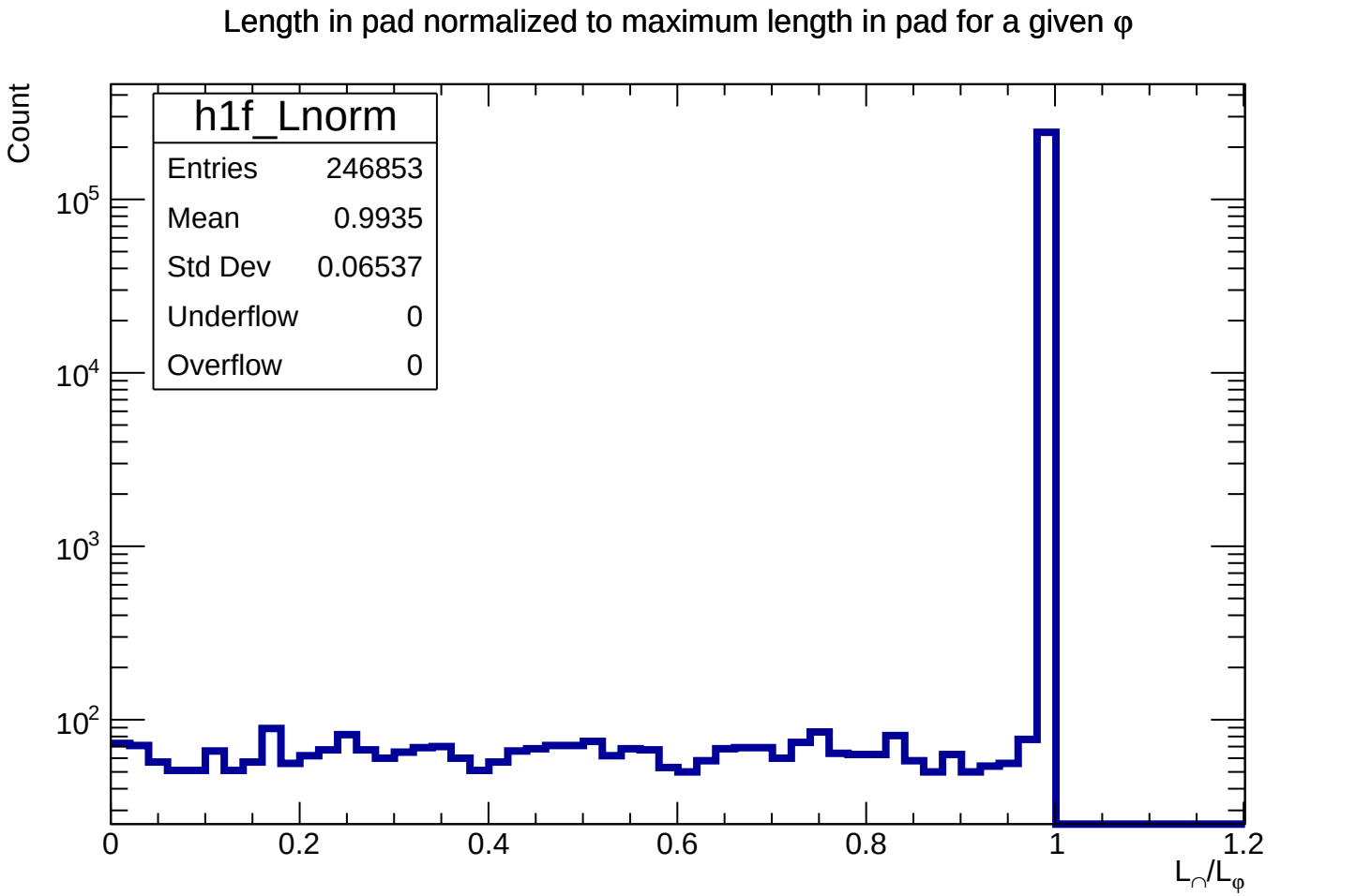
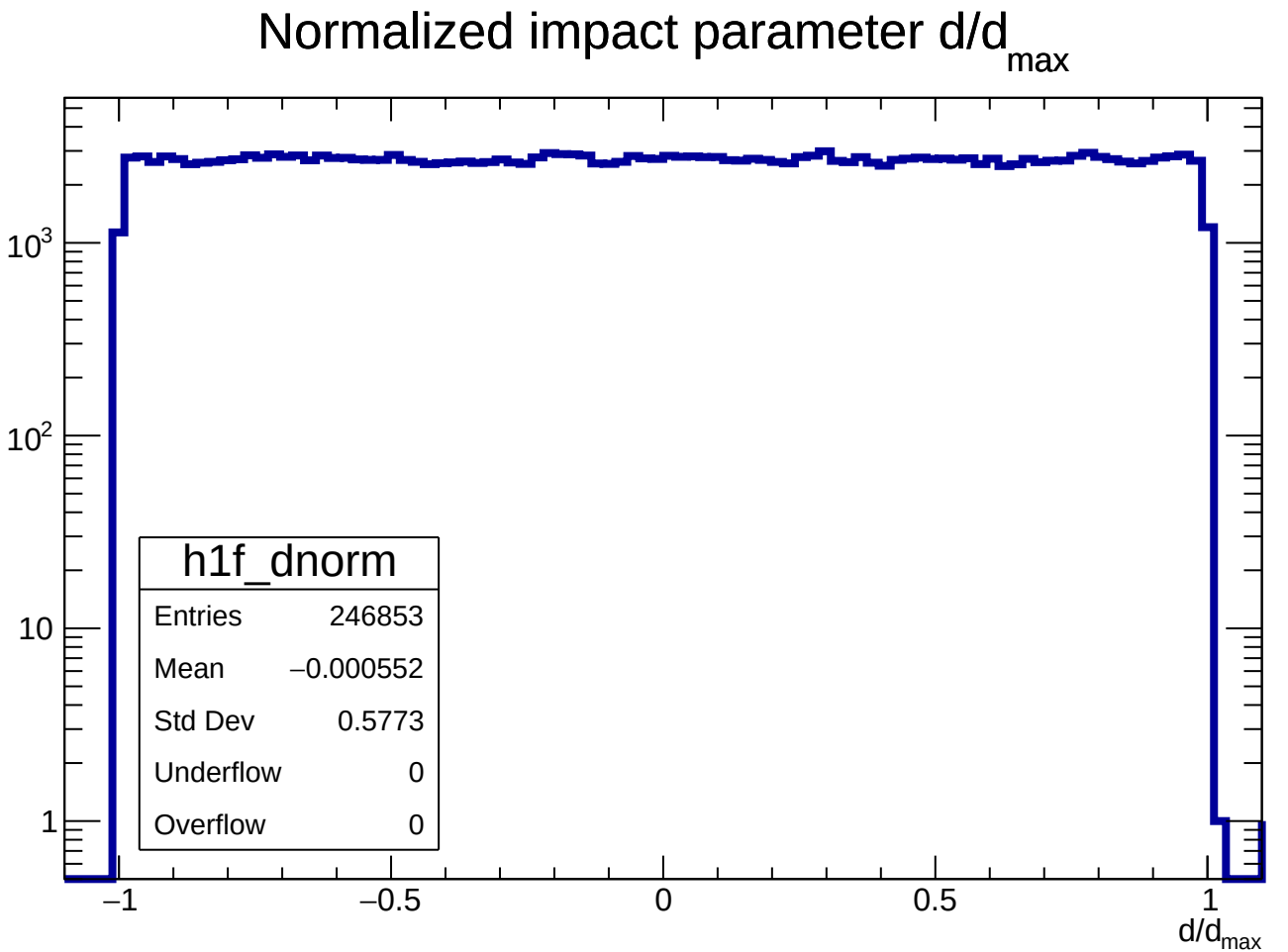

T_{max} of crossed pads
h1f_Tcross
Entries 246302
Mean 185
Std Dev 5.921
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

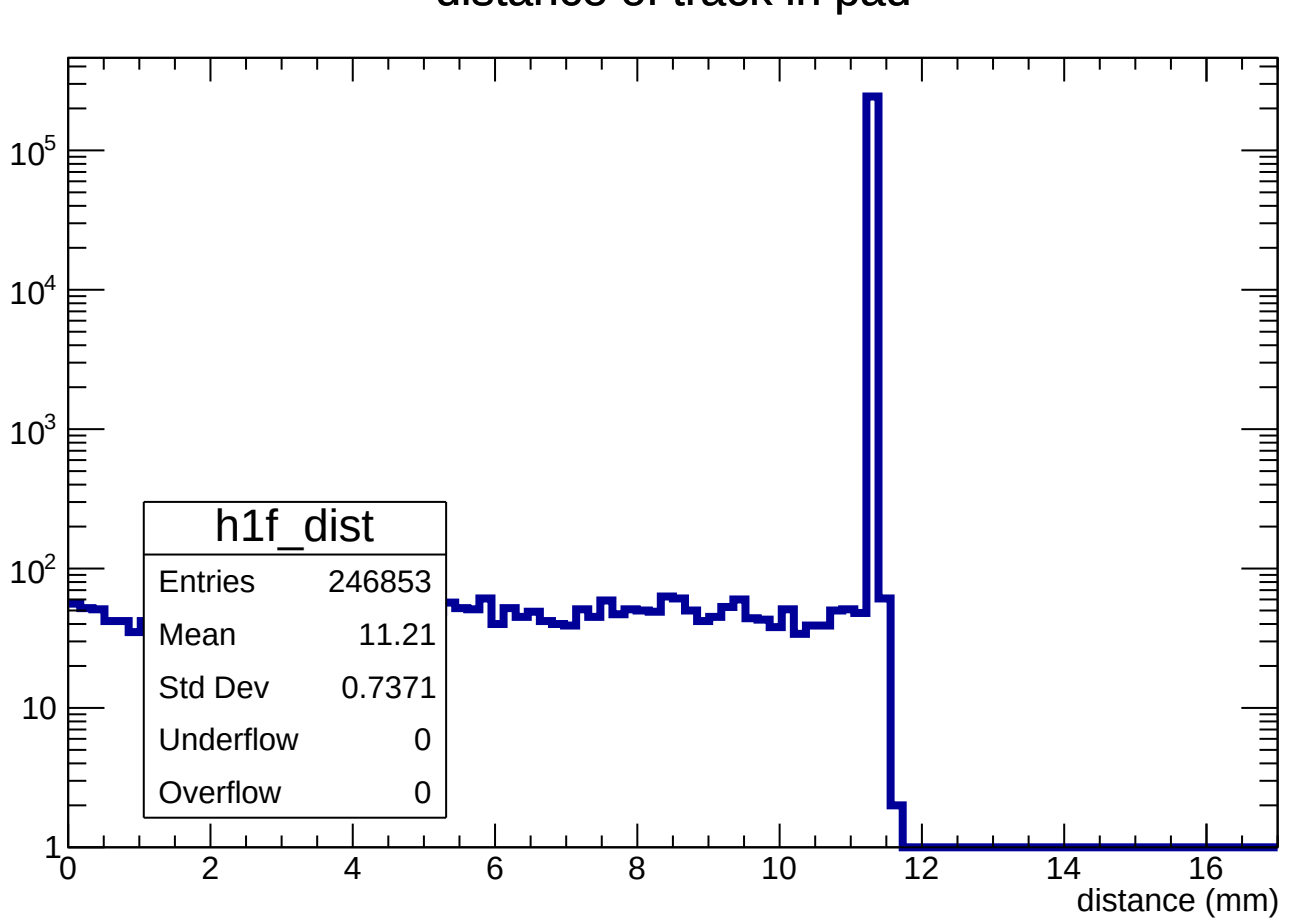

Number of crossed pads
h1f_Ncross
Entries 2607
Mean 34.33
Std Dev 2.652
Underflow 1
Overflow 2220
Count
0
50
100
150
200
250
300
15
20
25
30
35
40
45
50
55
60
# of crossed pads

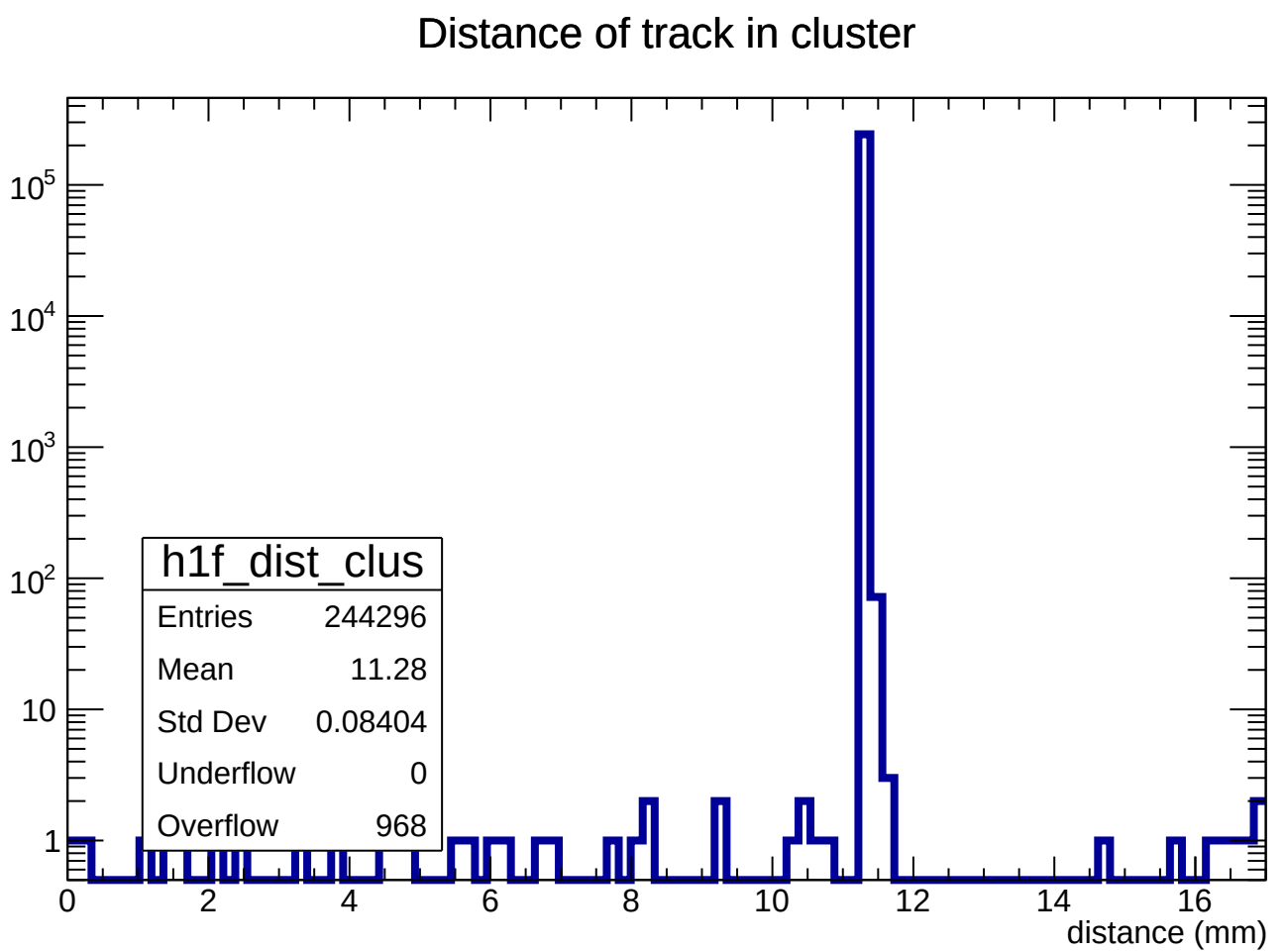

$z_{file = 415mm} - z_{computed}$
h1f_zdiff
Entries 246302
Mean 12.4
Std Dev 18.47
Underflow 0
Overflow 0
Count
30000
25000
20000
15000
10000
5000
0
–150
–100
–50
0
50
100
150
difference (mm)

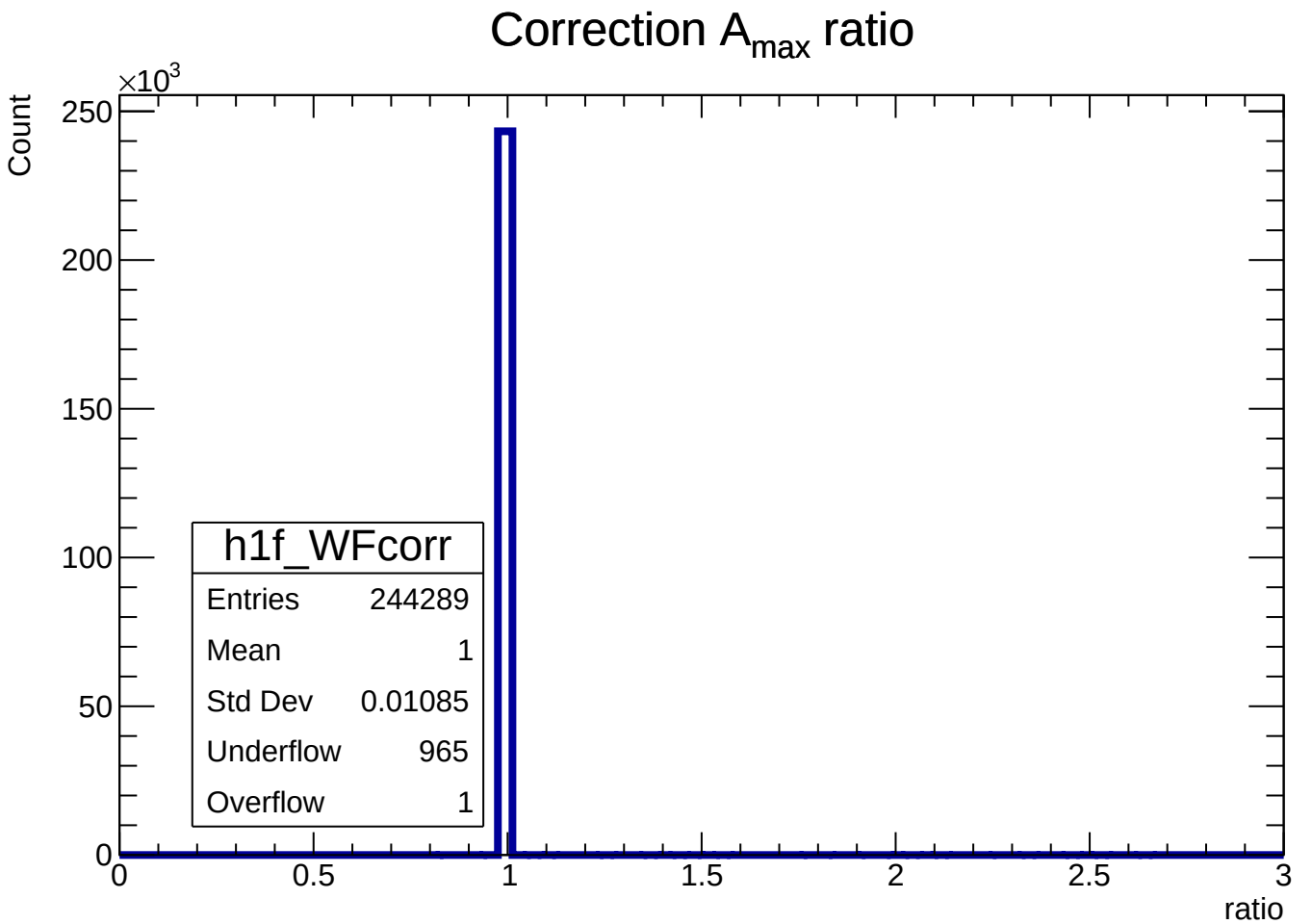

Angle φ in each pad
×10^3
Count
140
120
100
80
60
40
20
0
h1f_angle
Entries 246302
Mean 0.003789
Std Dev 0.746
Underflow 0
Overflow 8
–50
–40
–30
–20
–10
0
10
φ (°)

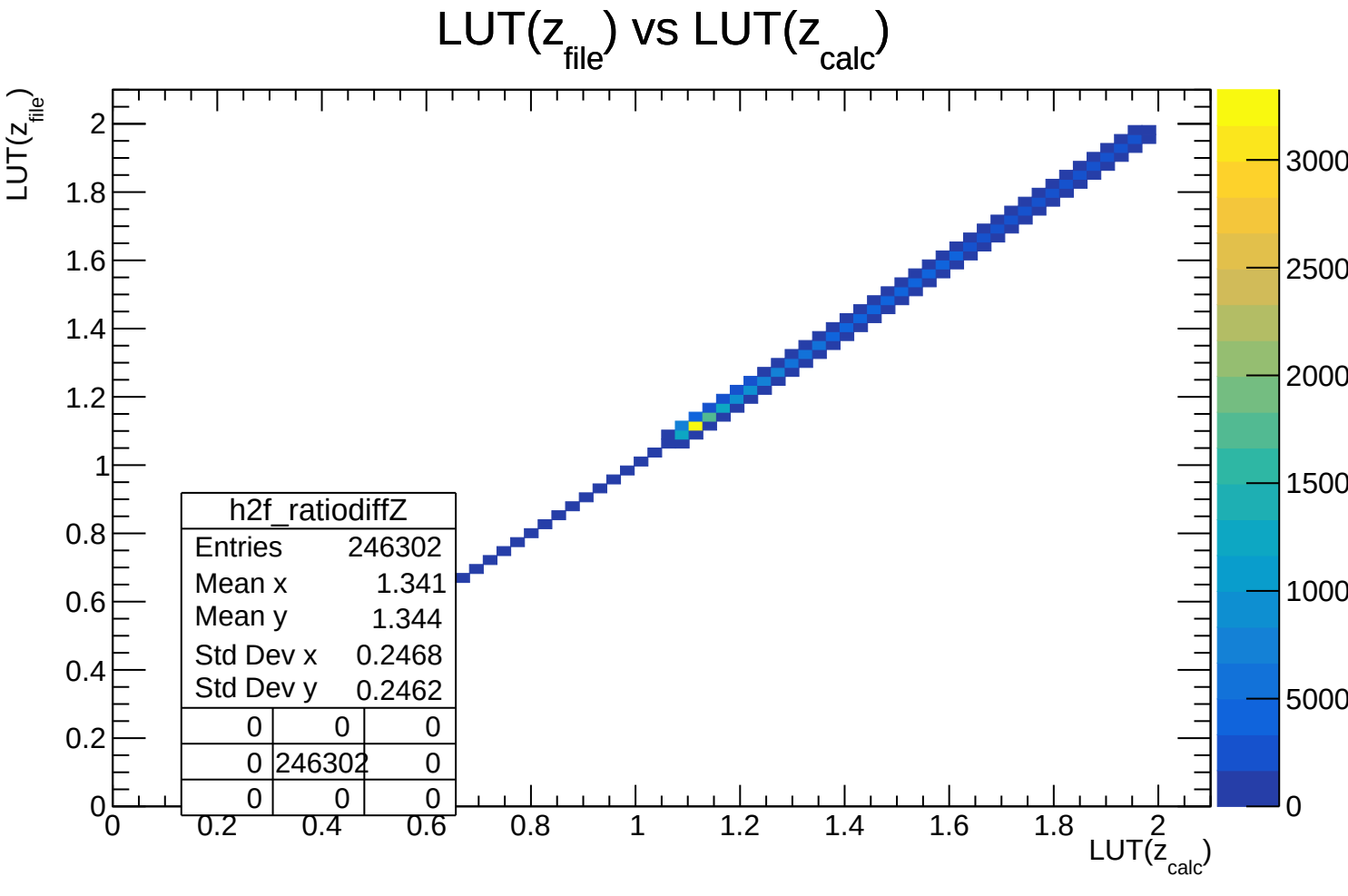

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 246853
Mean 0.9935
Std Dev 0.06537
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
10^2
0
0.2
0.4
0.6
0.8
1
1.2
$L_{\cap}/L_{\varphi}$

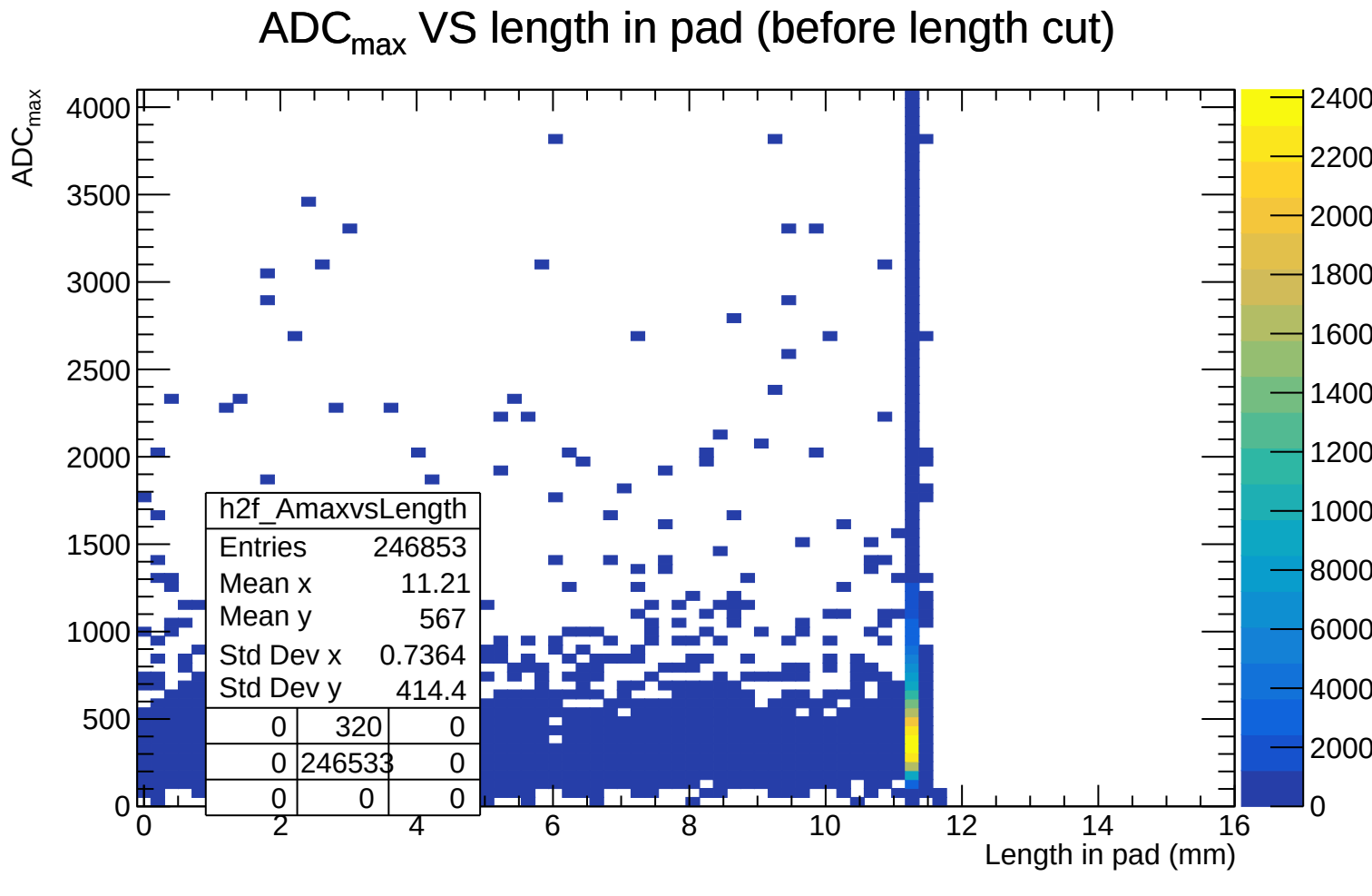

Normalized impact parameter d/d_max
10^3
10^2
10
1
h1f_dnorm
Entries 246853
Mean −0.000552
Std Dev 0.5773
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d_max

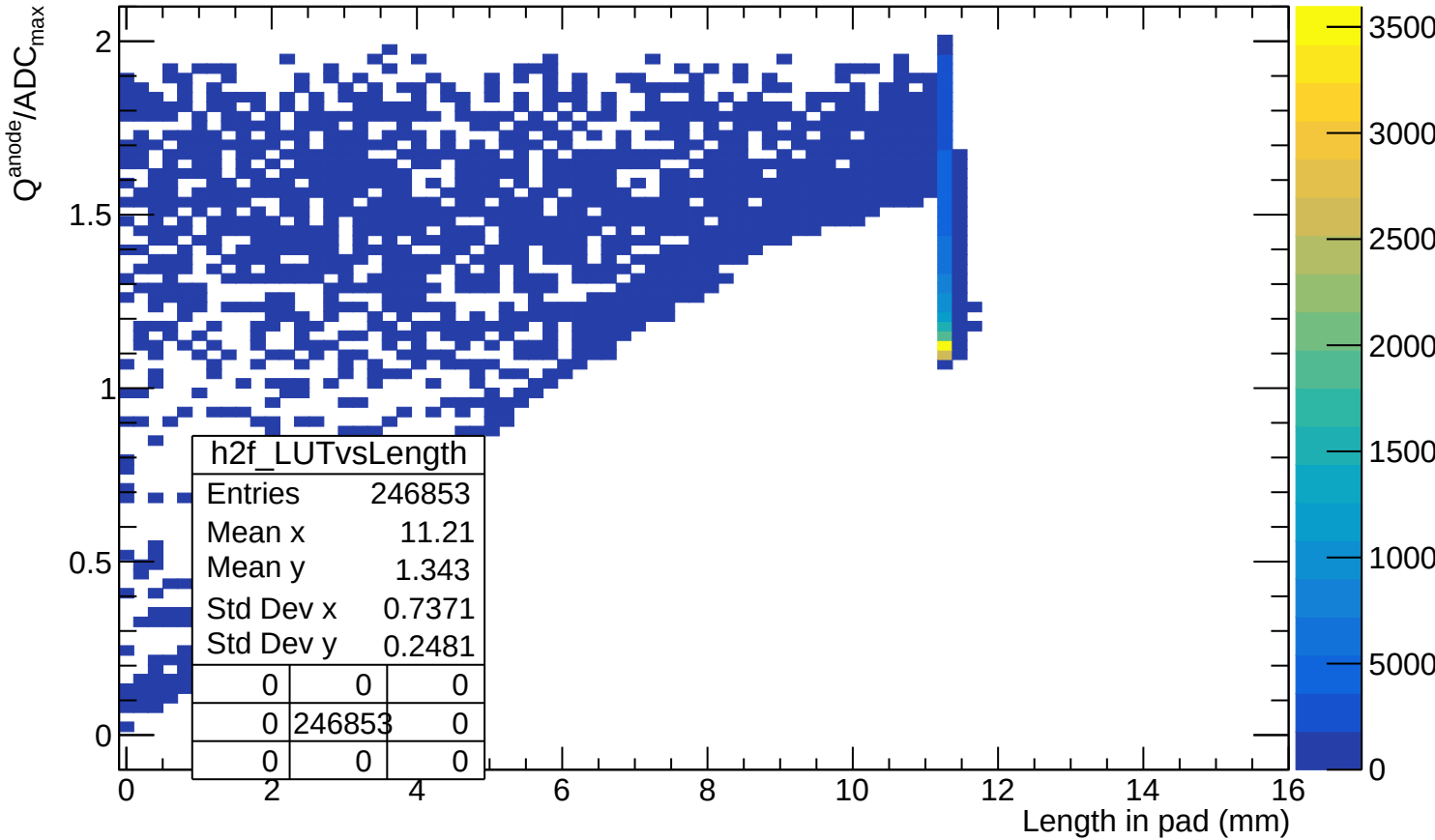

distance of track in pad
h1f_dist
Entries 246853
Mean 11.21
Std Dev 0.7371
Underflow 0
Overflow 0
distance (mm)

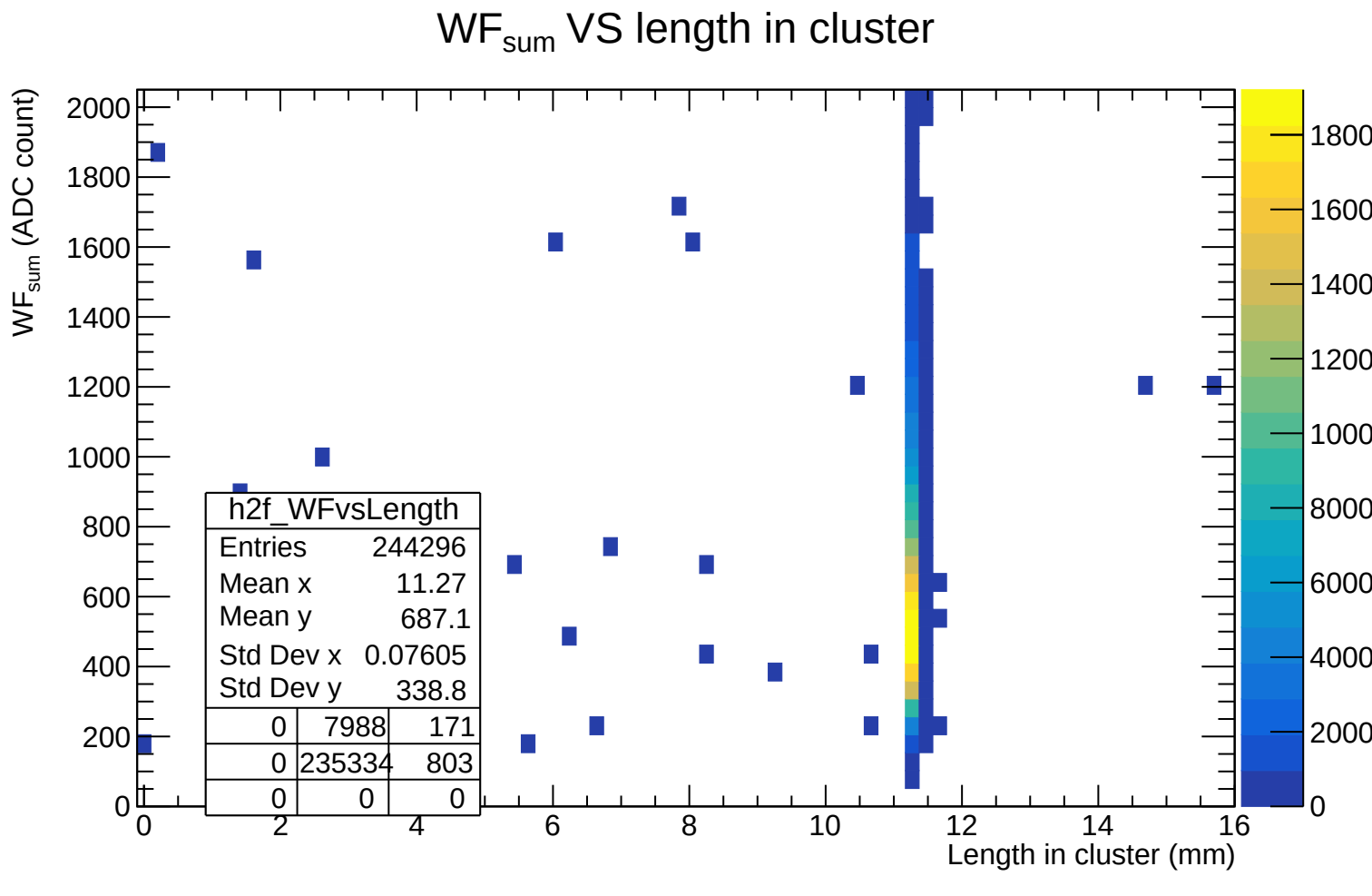

Distance of track in cluster
h1f_dist_clus
Entries 244296
Mean 11.28
Std Dev 0.08404
Underflow 0
Overflow 968
distance (mm)

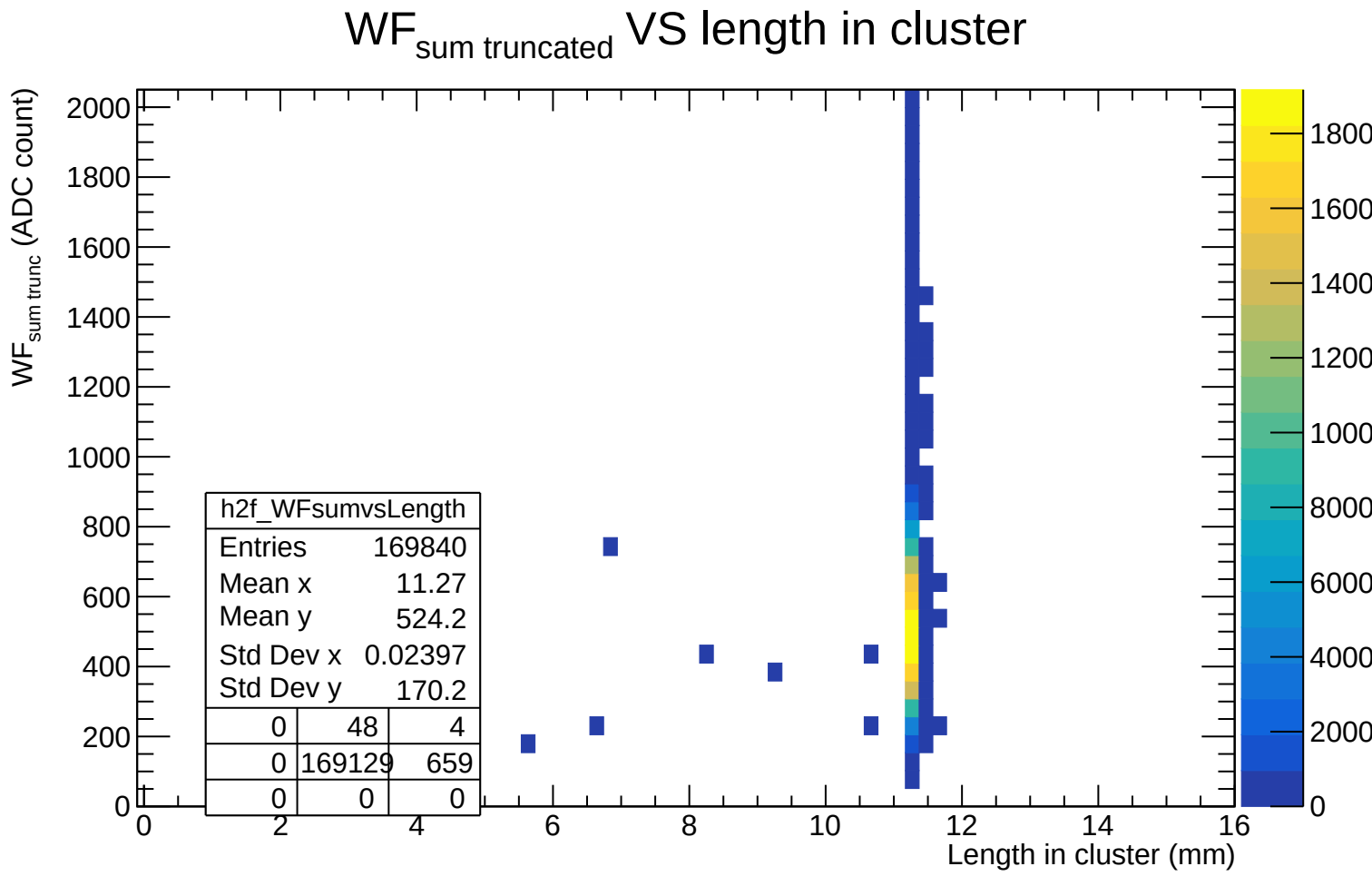

Correction A_{max} ratio
$\times 10^3$
Count
250
200
150
100
50
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 244289
Mean 1
Std Dev 0.01085
Underflow 965
Overflow 1

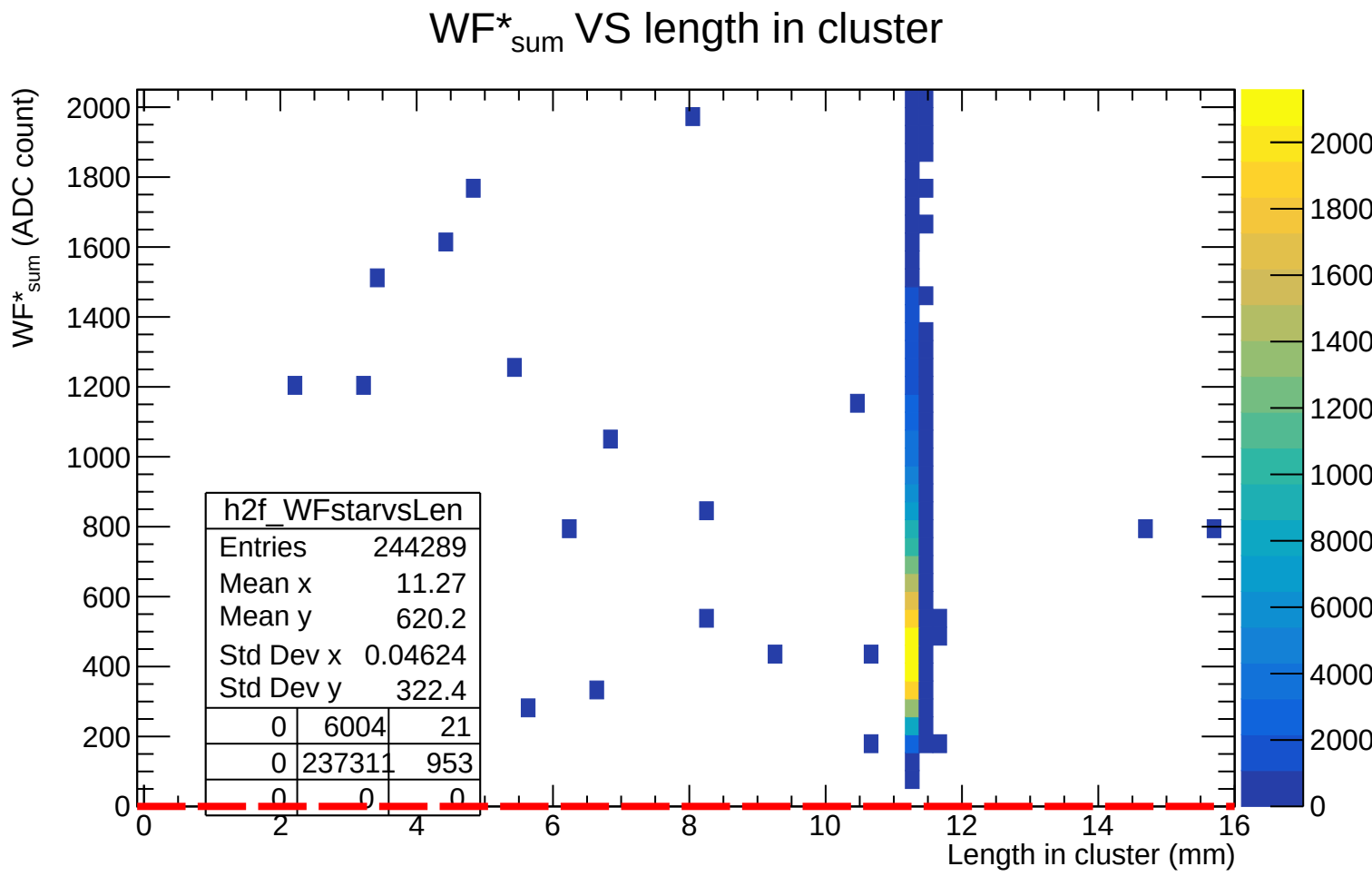

LUT(z_file) vs LUT(z_calc)
LUT(z_file)
LUT(z_calc)
h2f_ratiodiffZ
Entries 246302
Mean x 1.341
Mean y 1.344
Std Dev x 0.2468
Std Dev y 0.2462
0 0 0
0 246302 0
0 0 0

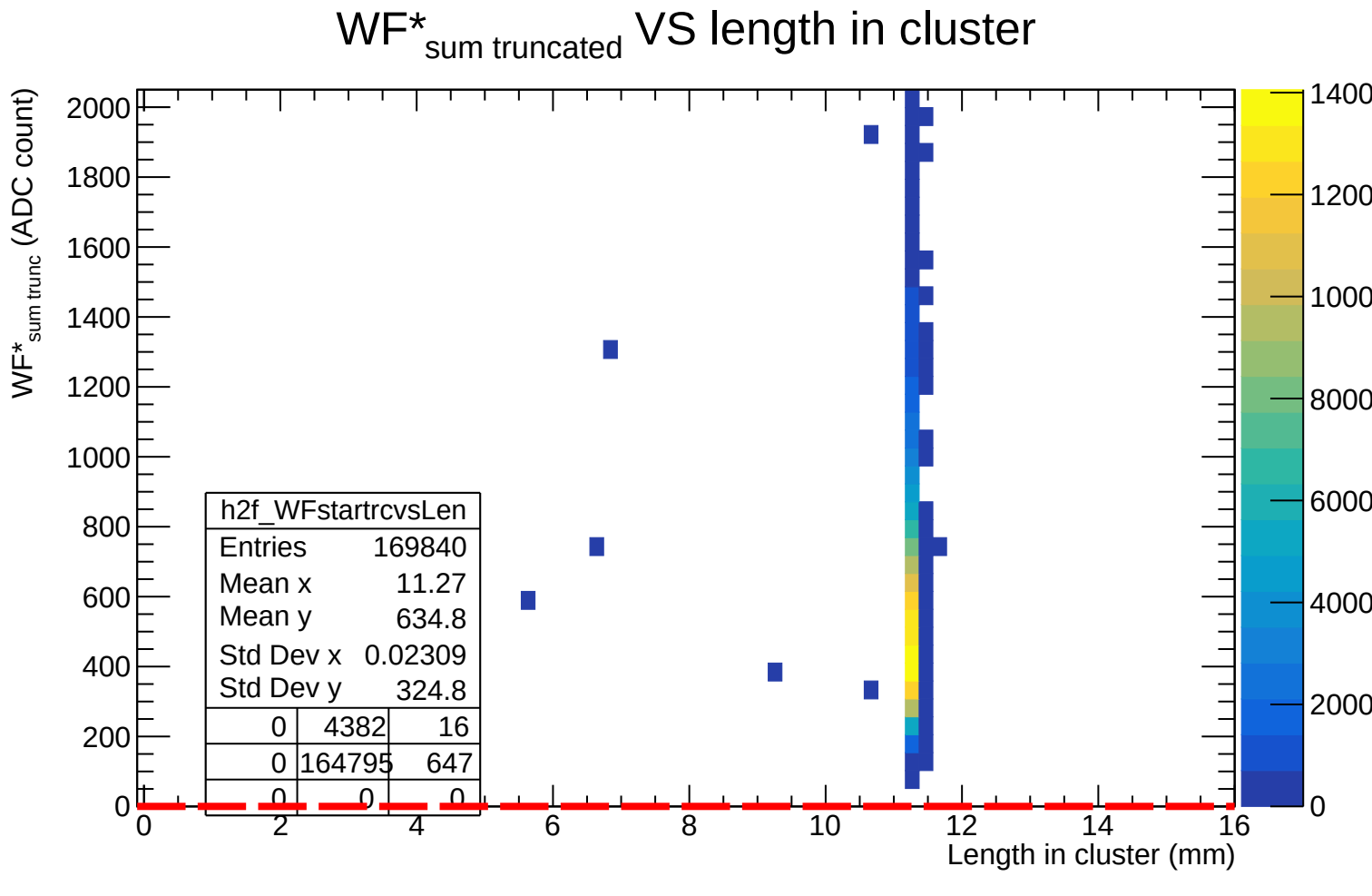

ADC_max VS length in pad (before length cut)
ADC_max
Length in pad (mm)
h2f_AmaxvsLength
Entries 246853
Mean x 11.21
Mean y 567
Std Dev x 0.7364
Std Dev y 414.4
0 320 0
0 246533 0
0 0 0

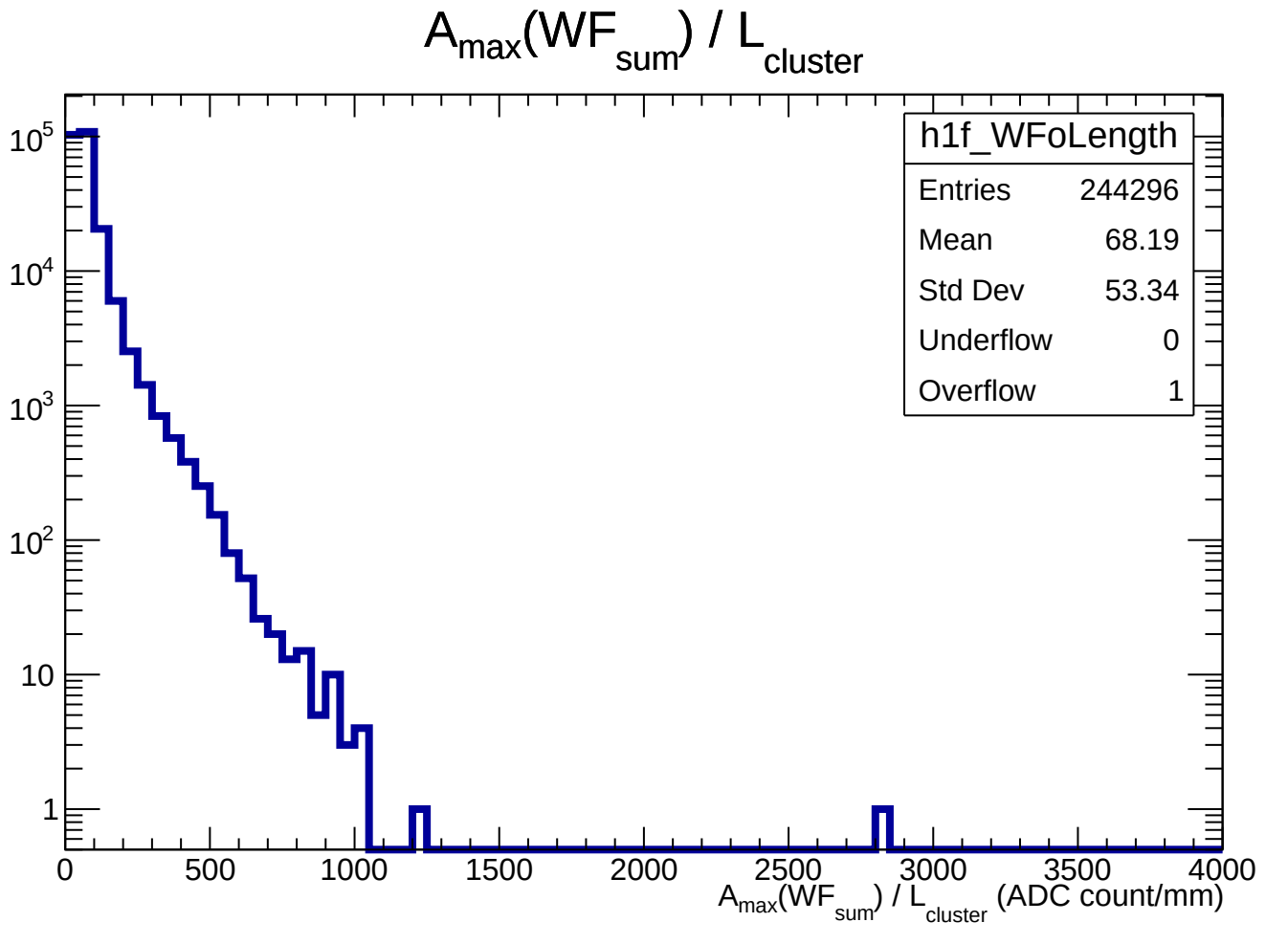

Q^{anode}/ADC_{max} VS length in pad (before length cut)
Q^{anode}/ADC_{max}
Length in pad (mm)
h2f_LUTvsLength
Entries 246853
Mean x 11.21
Mean y 1.343
Std Dev x 0.7371
Std Dev y 0.2481
0 0 0
0 246853 0
0 0 0

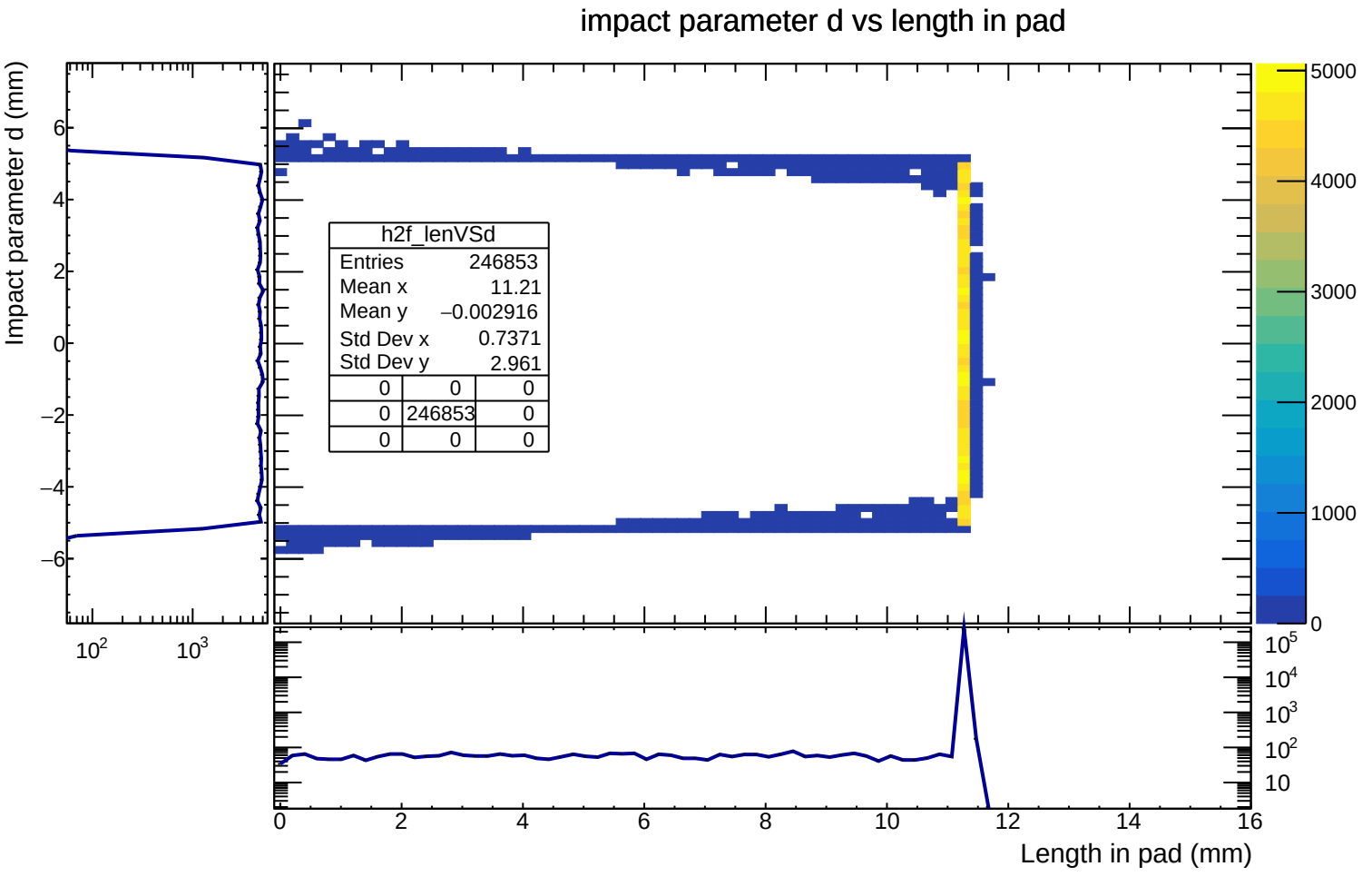

WF$_{sum}$ VS length in cluster
WF$_{sum}$ (ADC count)
Length in cluster (mm)
h2f_WFvsLength
Entries 244296
Mean x 11.27
Mean y 687.1
Std Dev x 0.07605
Std Dev y 338.8
0 7988 171
0 235334 803
0 0 0


WF sum truncated VS length in cluster
WF sum trunc (ADC count)
Length in cluster (mm)
h2f_WFsumvsLength
Entries 169840
Mean x 11.27
Mean y 524.2
Std Dev x 0.02397
Std Dev y 170.2
0 48 4
0 169129 659
0 0 0


WF*sum VS length in cluster
WF*sum (ADC count)
Length in cluster (mm)
h2f_WFstarvsLen
Entries 244289
Mean x 11.27
Mean y 620.2
Std Dev x 0.04624
Std Dev y 322.4
0 6004 21
0 237311 953
0 0 0


WF*sum truncated VS length in cluster
WF*sum trunc (ADC count)
Length in cluster (mm)
h2f_WFstartrcvsLen
Entries 169840
Mean x 11.27
Mean y 634.8
Std Dev x 0.02309
Std Dev y 324.8
0 4382 16
0 164795 647
0 0 0


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 244296
Mean 68.19
Std Dev 53.34
Underflow 0
Overflow 1
10^5
10^4
10^3
10^2
10
1
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 246853
Mean x 11.21
Mean y −0.002916
Std Dev x 0.7371
Std Dev y 2.961
0 0 0
0 246853 0
0 0 0