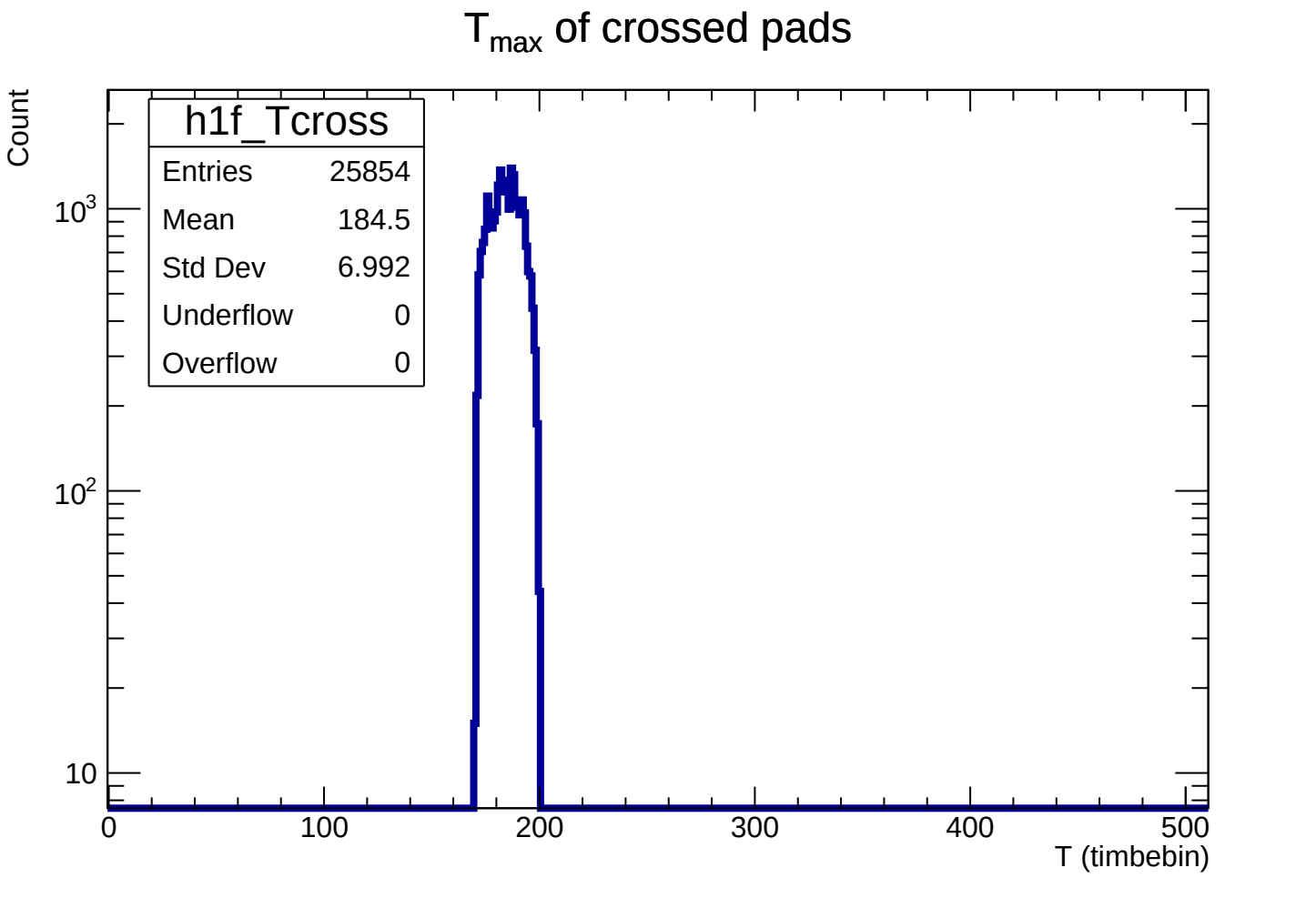
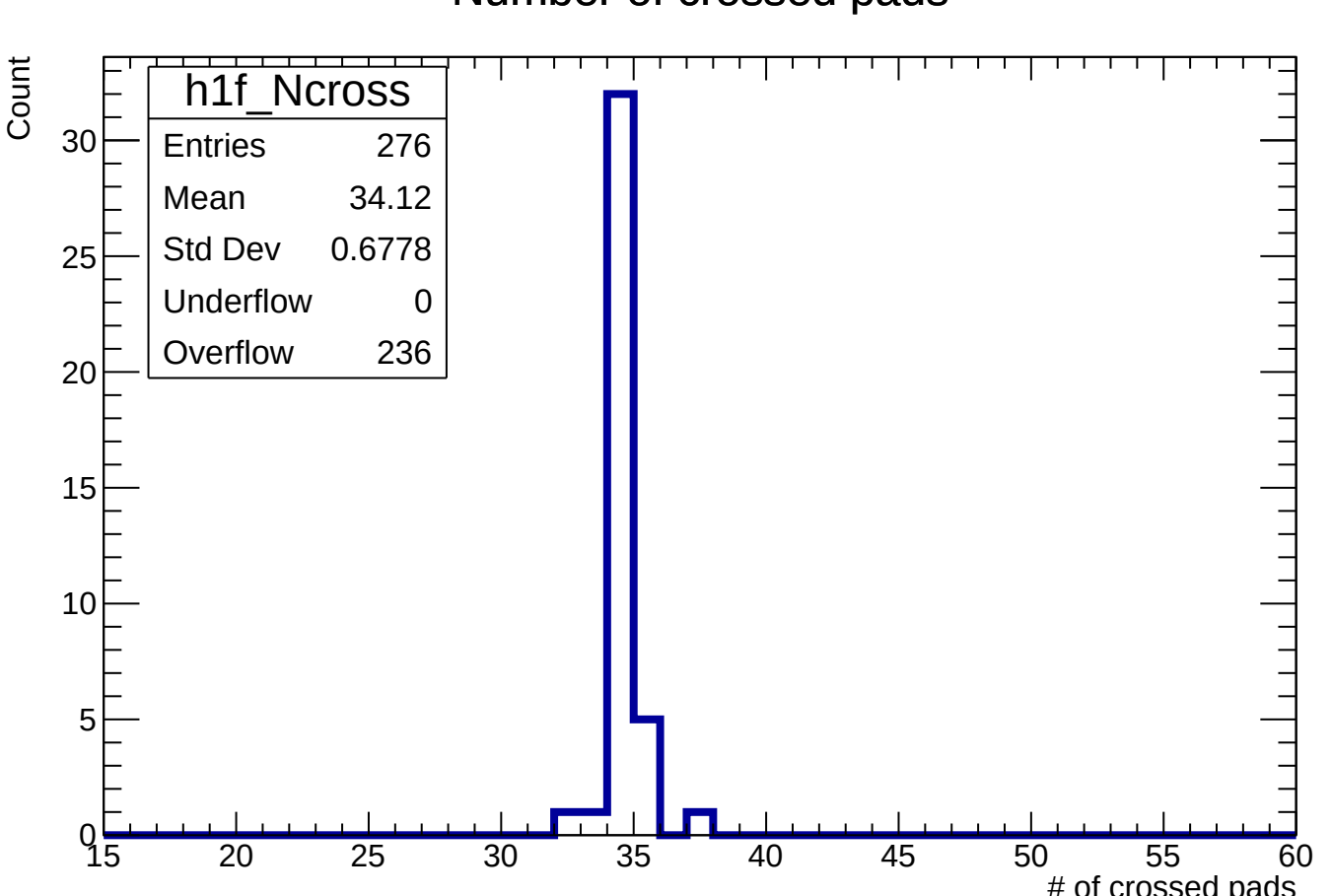
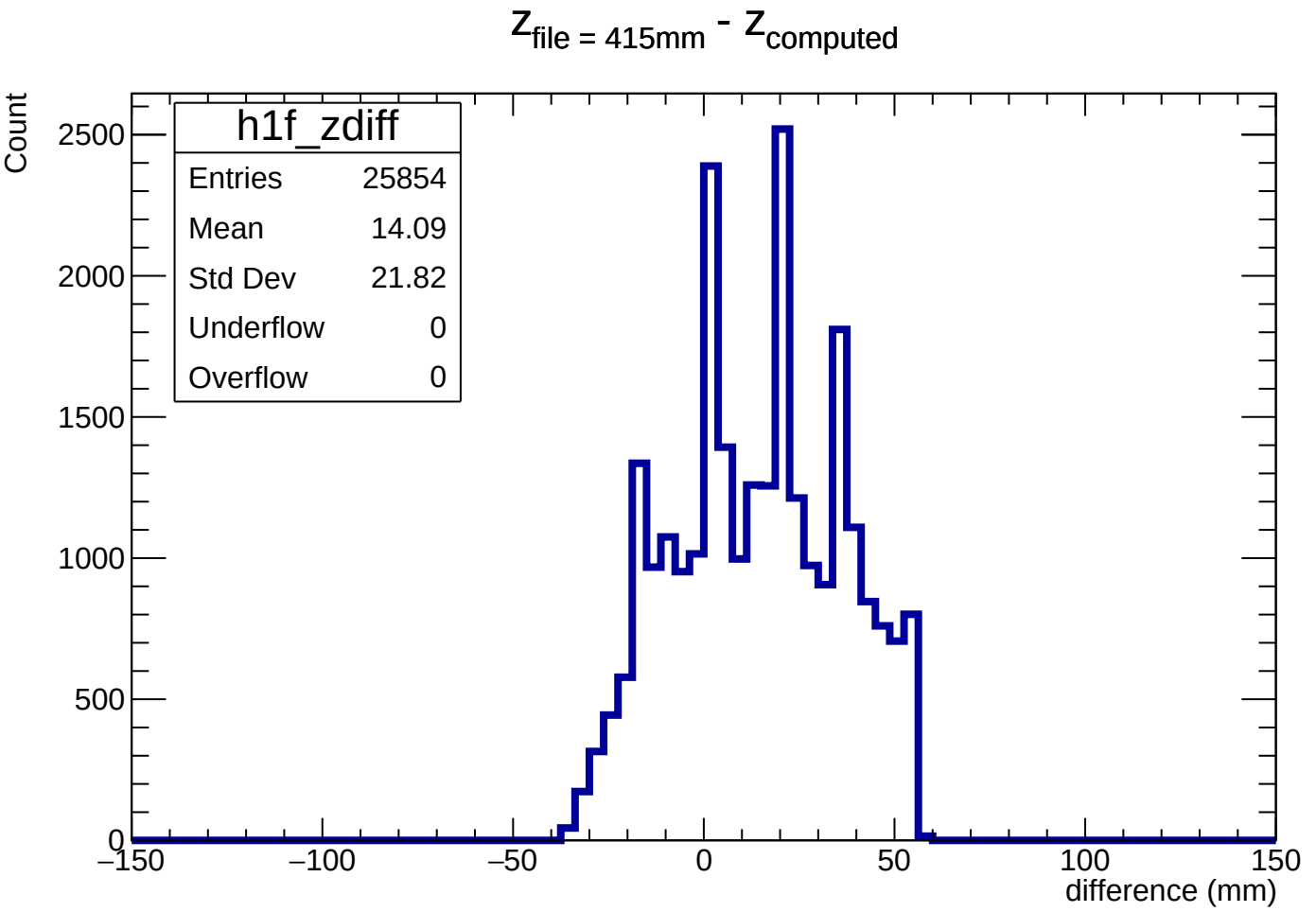
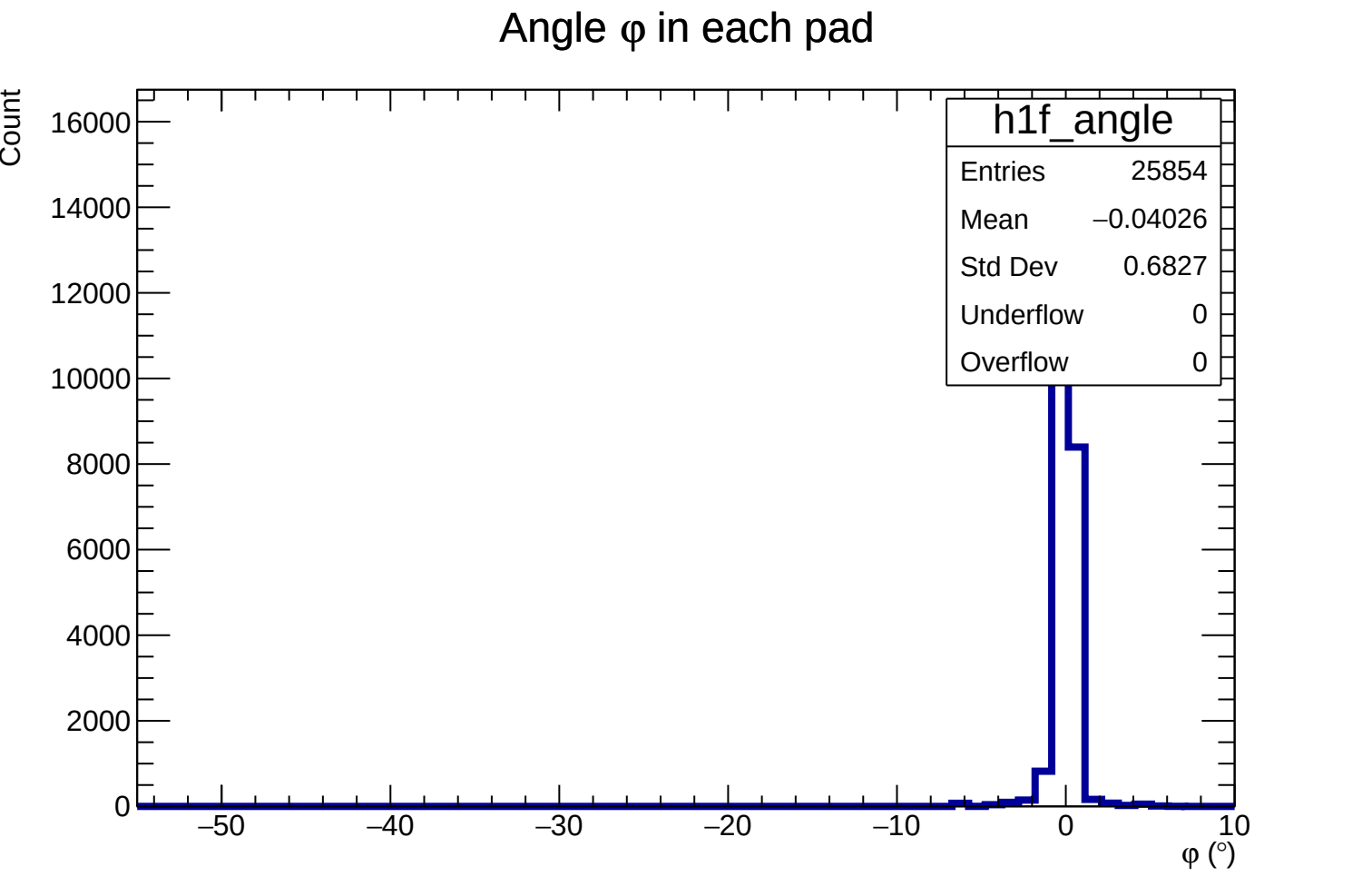
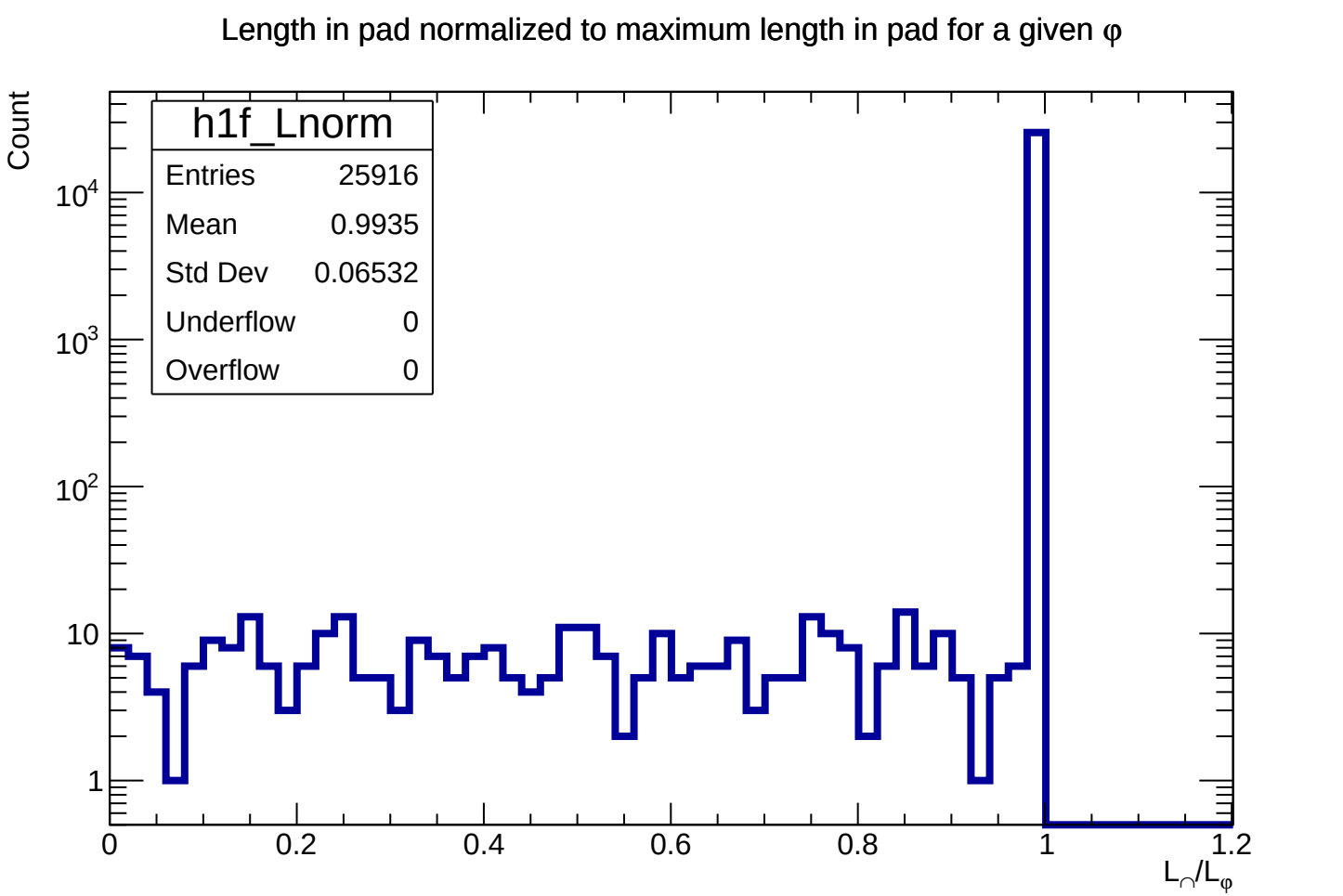
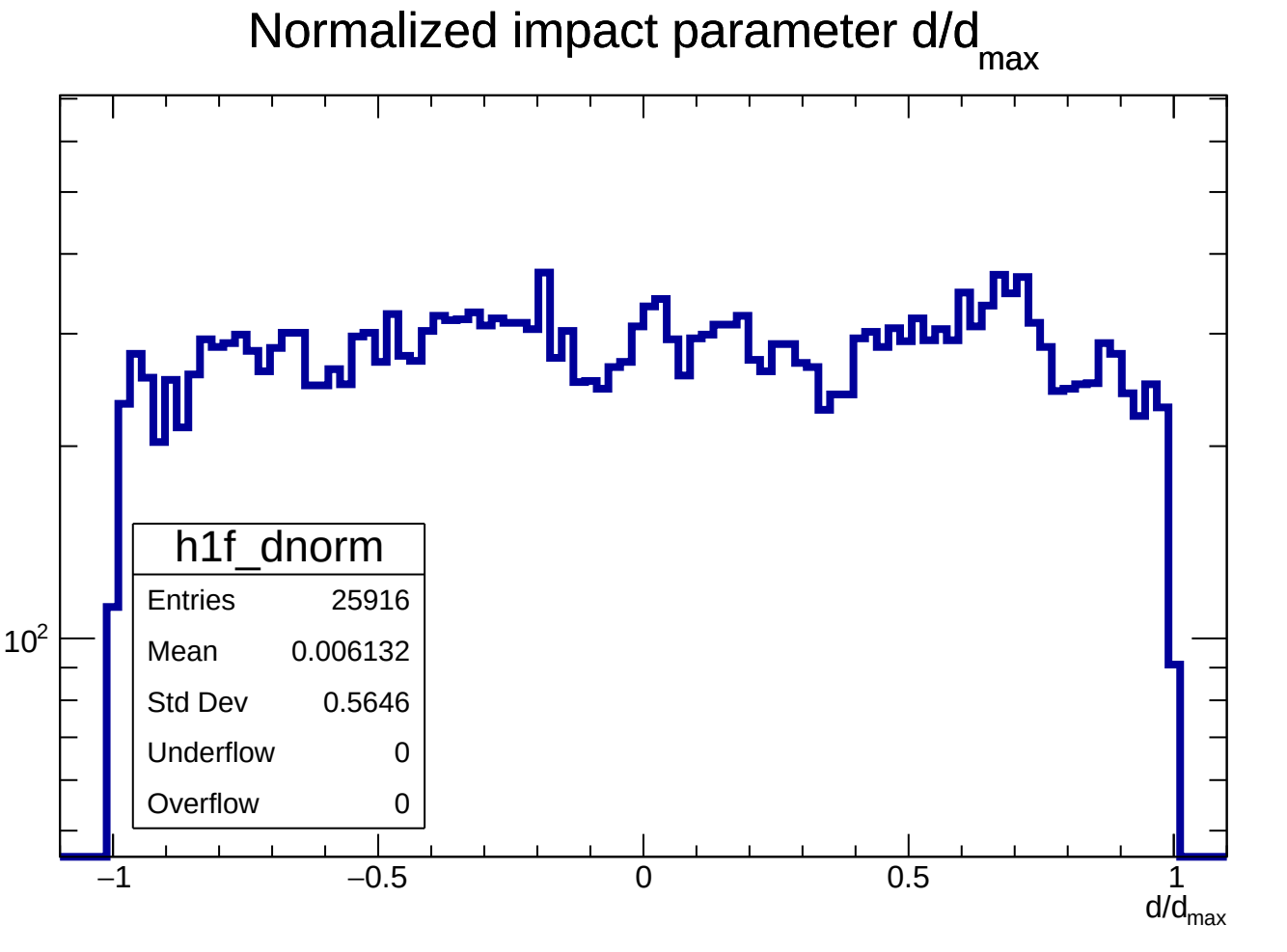

T_{max} of crossed pads
h1f_Tcross
Entries 25854
Mean 184.5
Std Dev 6.992
Underflow 0
Overflow 0
Count
10^3
10^2
10
0
100
200
300
400
500
T (timbebin)

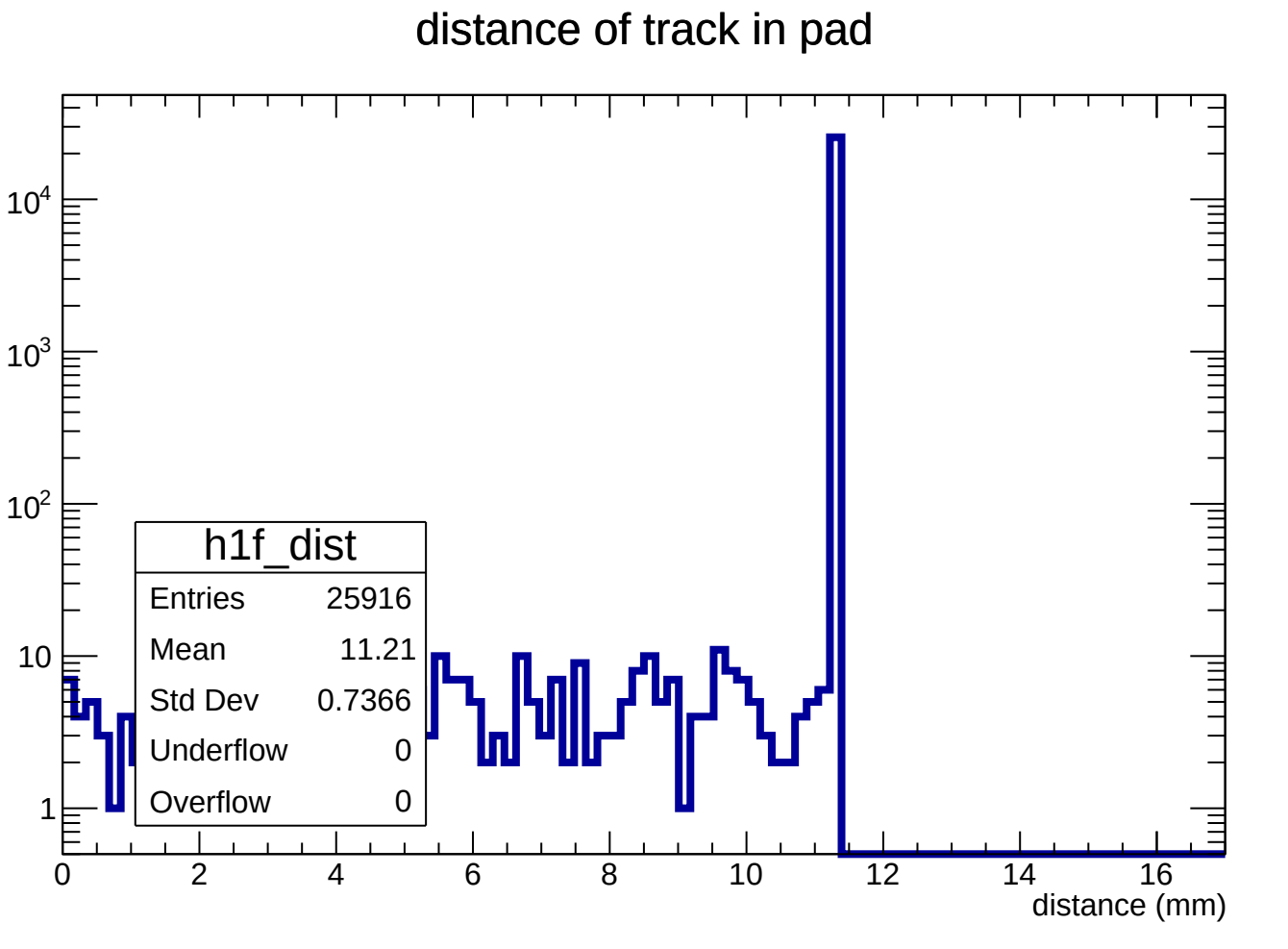

Number of crossed pads
h1f_Ncross
Entries 276
Mean 34.12
Std Dev 0.6778
Underflow 0
Overflow 236
Count
0
5
10
15
20
25
30
15
20
25
30
35
40
45
50
55
60
# of crossed pads

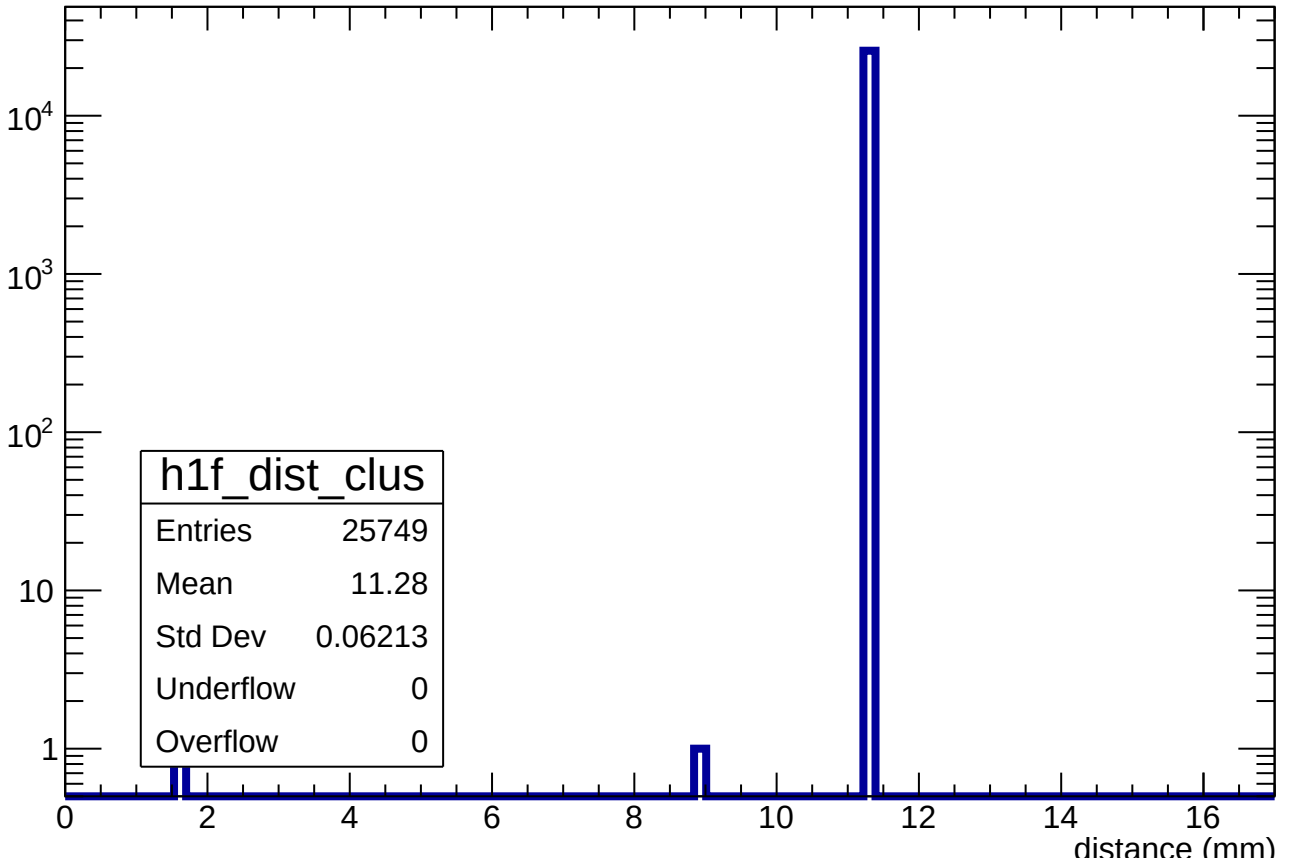

$z_{file = 415mm} - z_{computed}$
h1f_zdiff
Entries 25854
Mean 14.09
Std Dev 21.82
Underflow 0
Overflow 0
Count
2500
2000
1500
1000
500
0
–150
–100
–50
0
50
100
150
difference (mm)

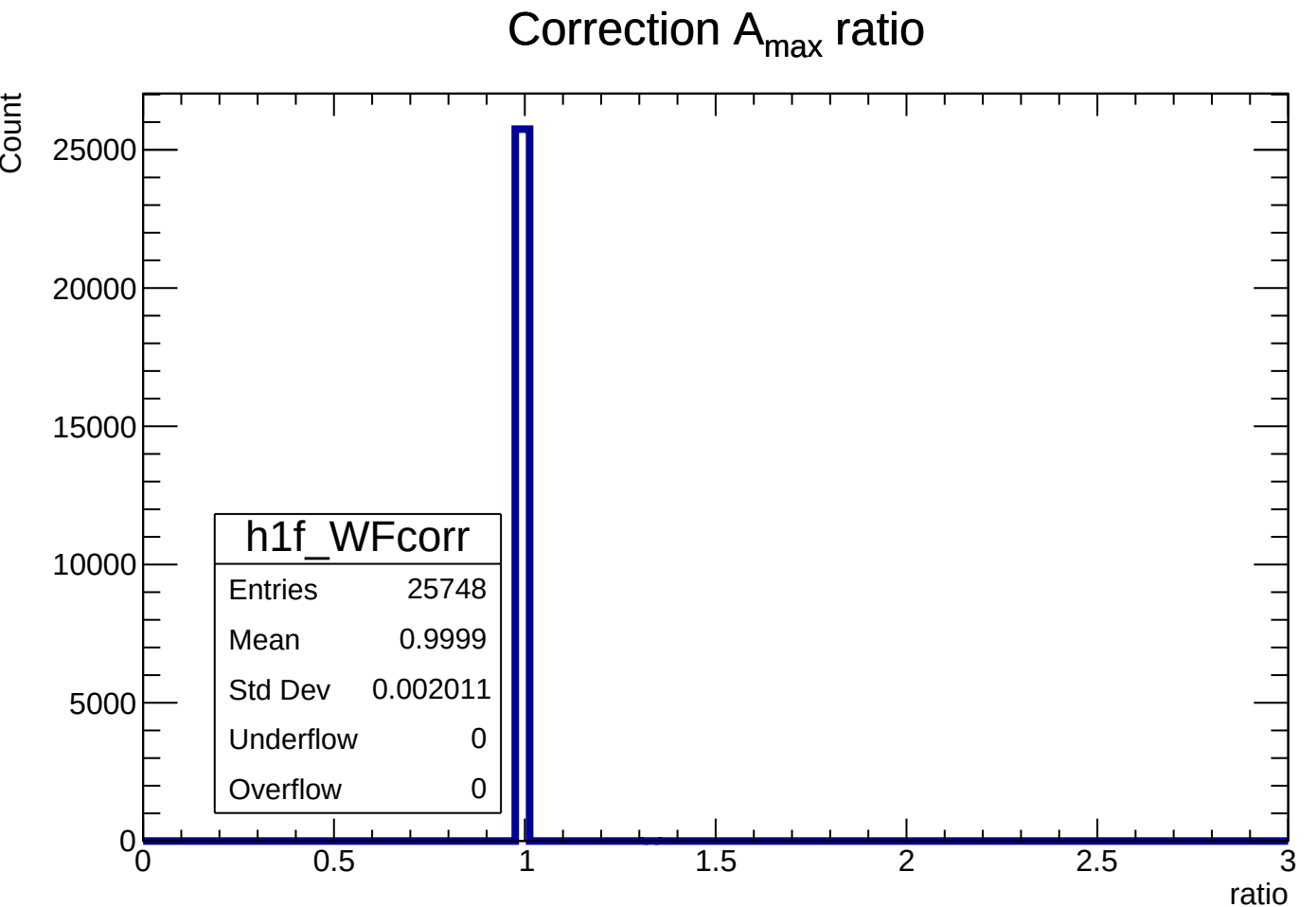

Angle φ in each pad
Count
16000
14000
12000
10000
8000
6000
4000
2000
0
h1f_angle
Entries 25854
Mean −0.04026
Std Dev 0.6827
Underflow 0
Overflow 0
−50
−40
−30
−20
−10
0
10
φ (°)

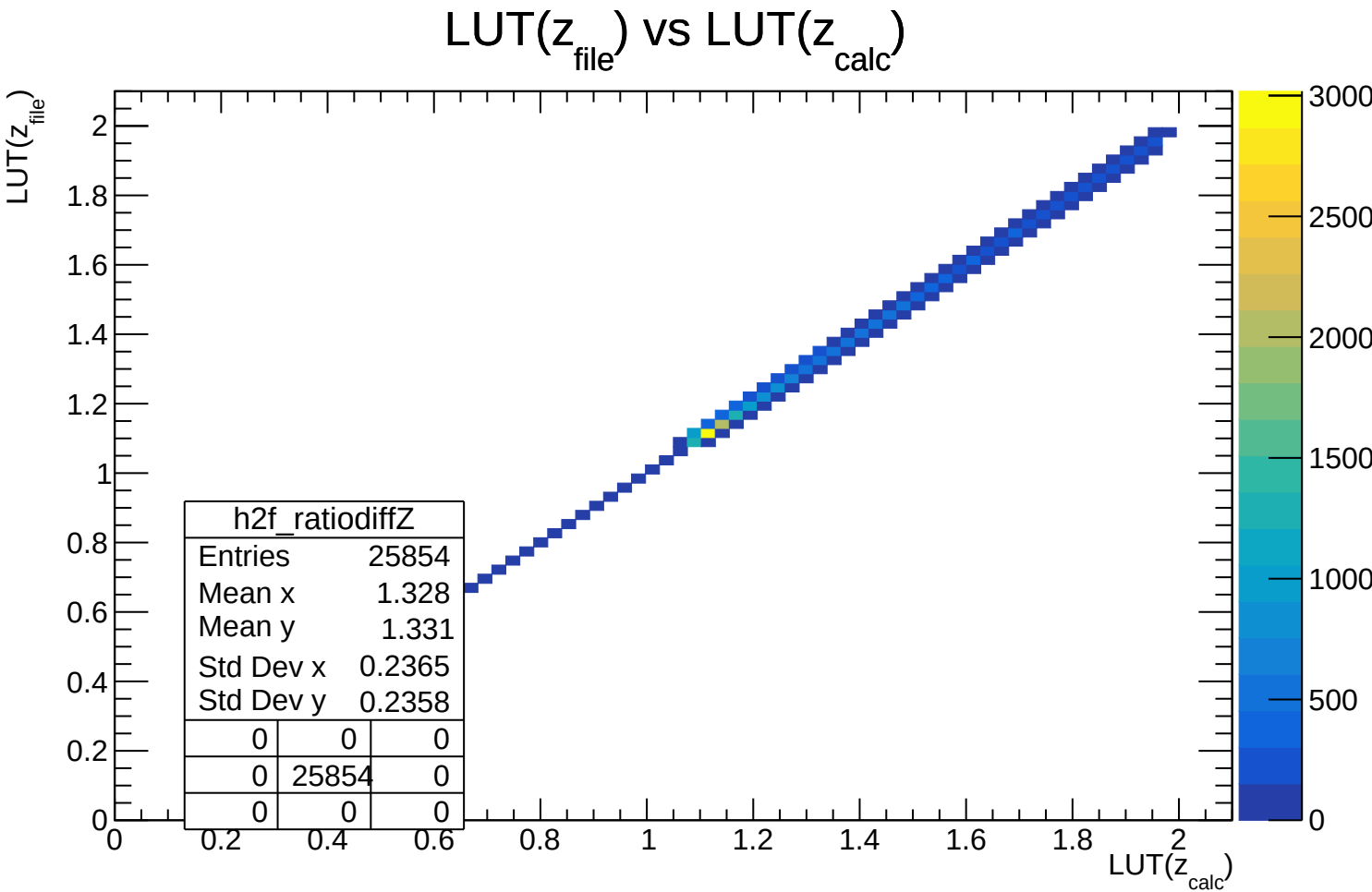

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 25916
Mean 0.9935
Std Dev 0.06532
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
1.2
$L_{\cap}/L_{\varphi}$

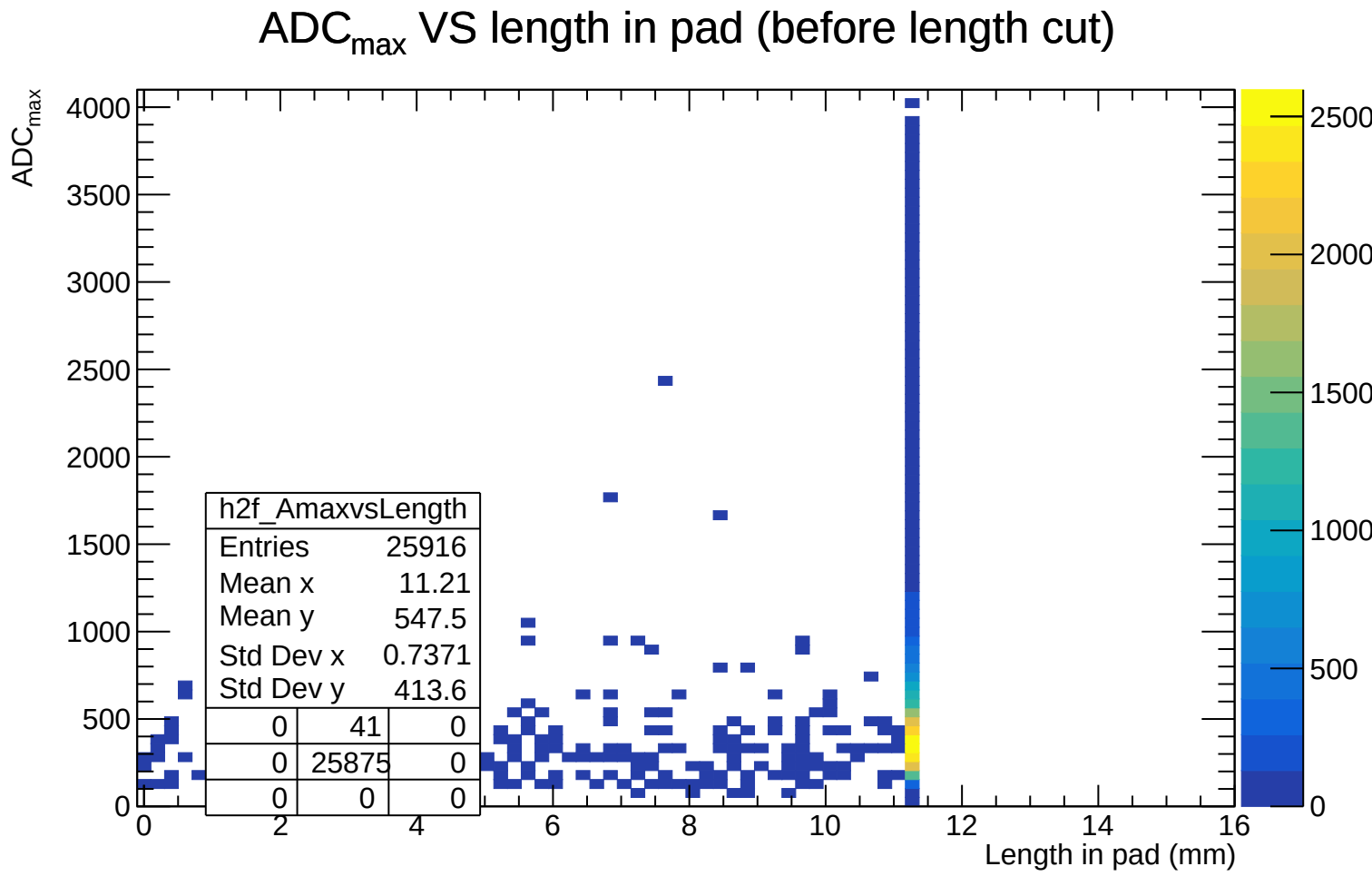

Normalized impact parameter d/d max
h1f_dnorm
Entries 25916
Mean 0.006132
Std Dev 0.5646
Underflow 0
Overflow 0
10^2
−1
−0.5
0
0.5
1
d/d max

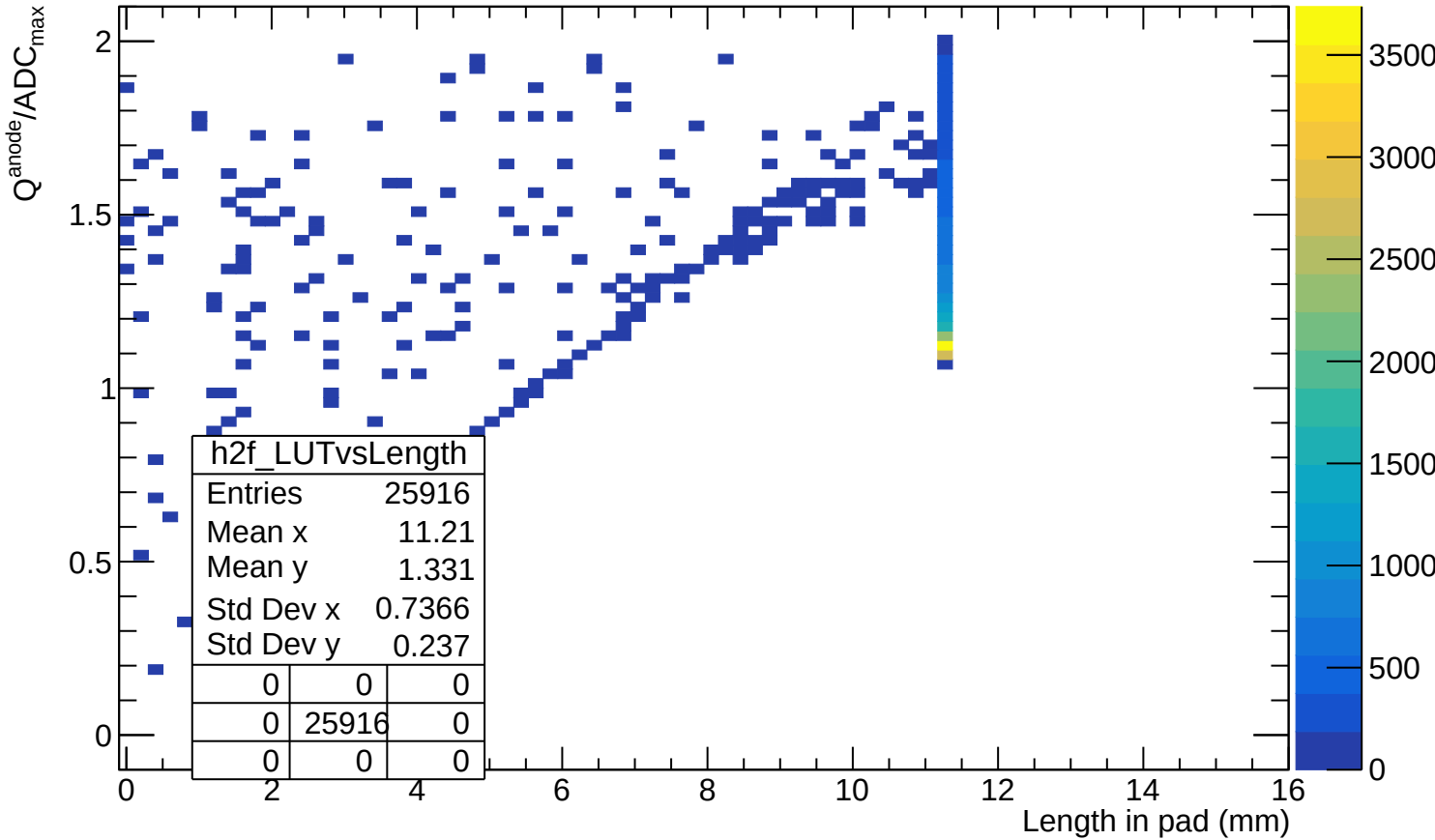

distance of track in pad
h1f_dist
Entries 25916
Mean 11.21
Std Dev 0.7366
Underflow 0
Overflow 0
10^4
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
distance (mm)

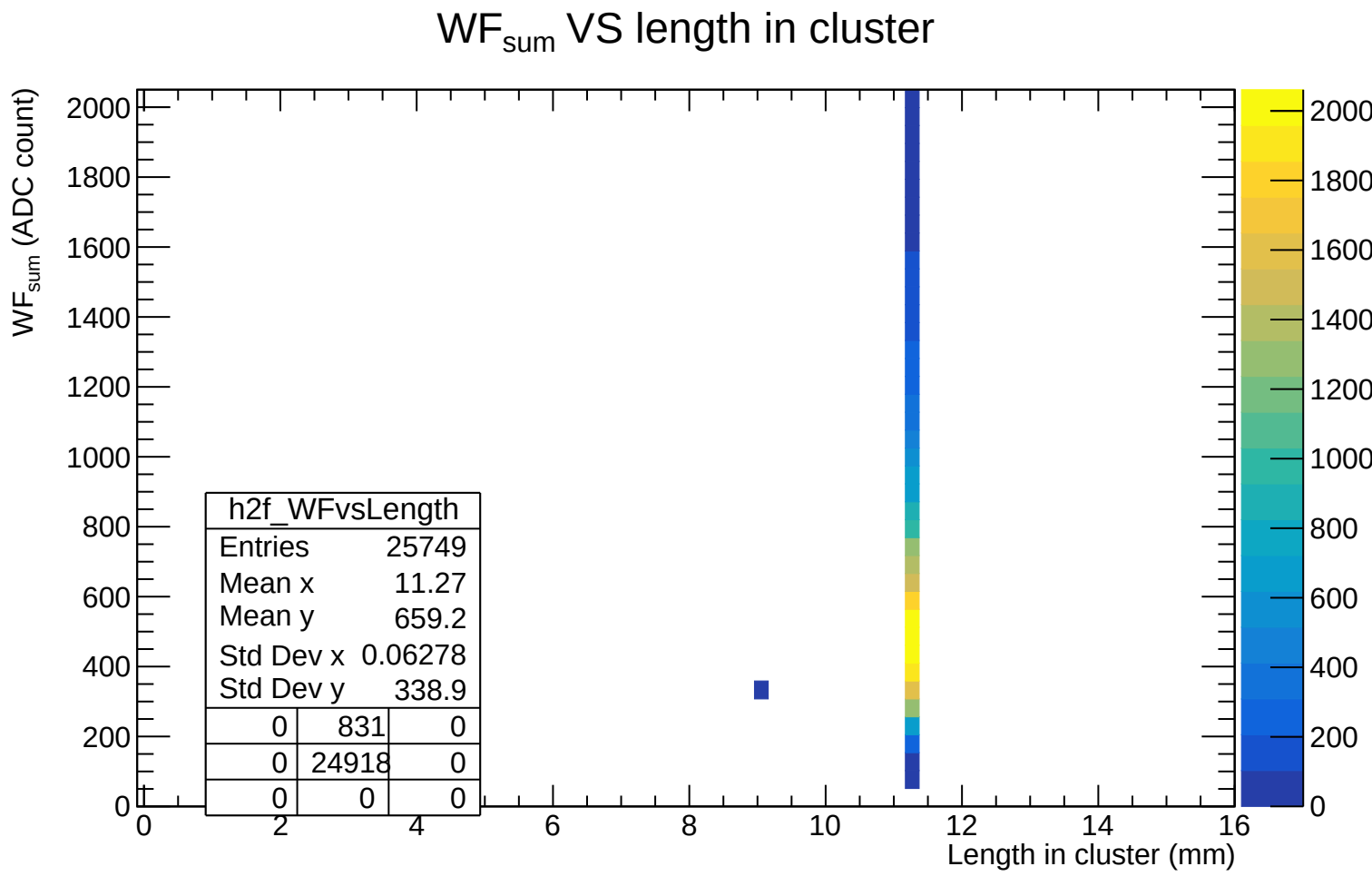

Distance of track in cluster
h1f_dist_clus
Entries 25749
Mean 11.28
Std Dev 0.06213
Underflow 0
Overflow 0
10^4
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
distance (mm)

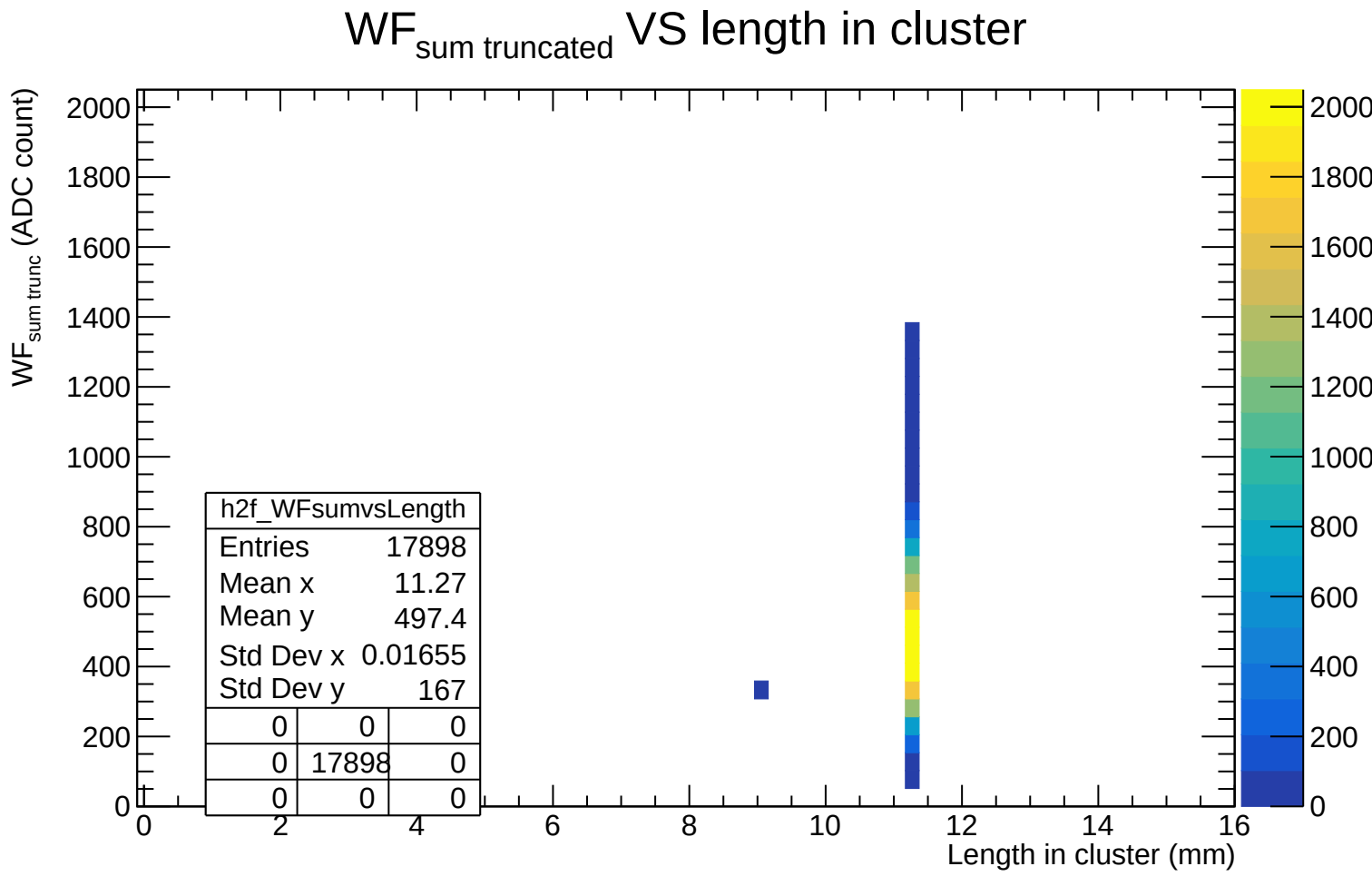

Correction A_{max} ratio
Count
25000
20000
15000
10000
5000
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 25748
Mean 0.9999
Std Dev 0.002011
Underflow 0
Overflow 0

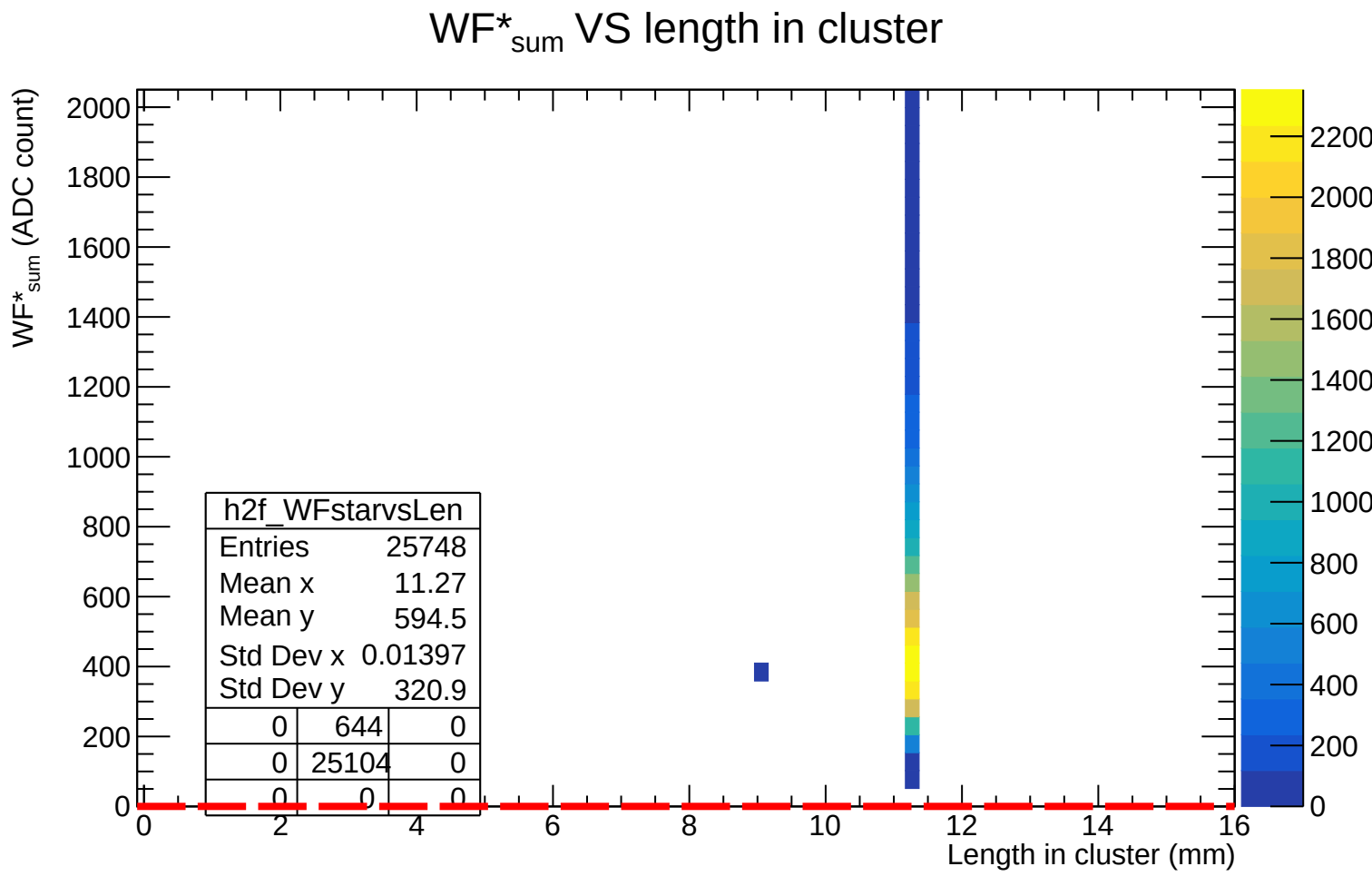

LUT(z_file) vs LUT(z_calc)
LUT(z_file)
LUT(z_calc)
h2f_ratiodiffZ
Entries 25854
Mean x 1.328
Mean y 1.331
Std Dev x 0.2365
Std Dev y 0.2358
0 0 0
0 25854 0
0 0 0

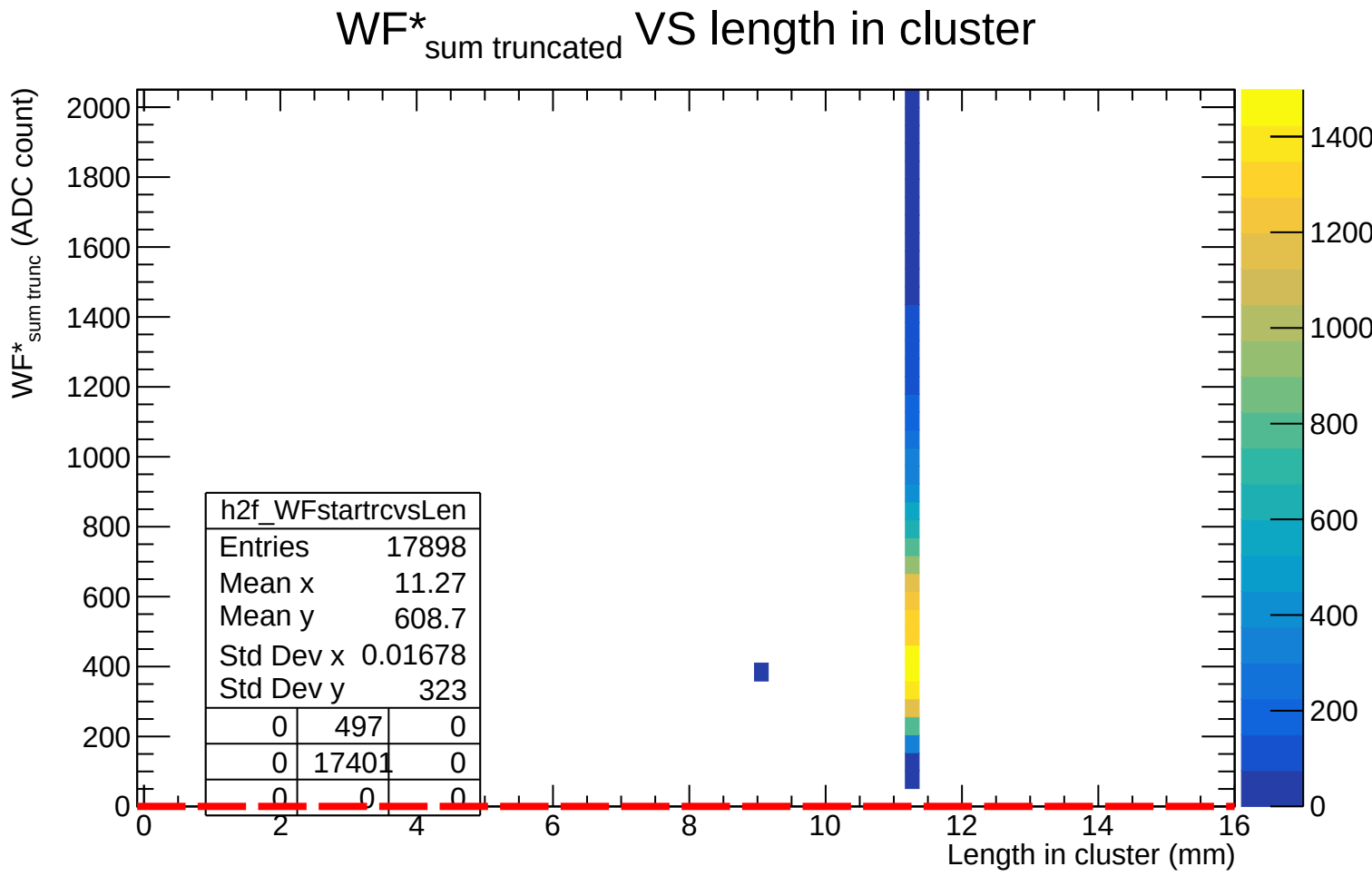

ADC_max VS length in pad (before length cut)
ADC_max
Length in pad (mm)
h2f_AmaxvsLength
Entries 25916
Mean x 11.21
Mean y 547.5
Std Dev x 0.7371
Std Dev y 413.6
0 41 0
0 25875 0
0 0 0

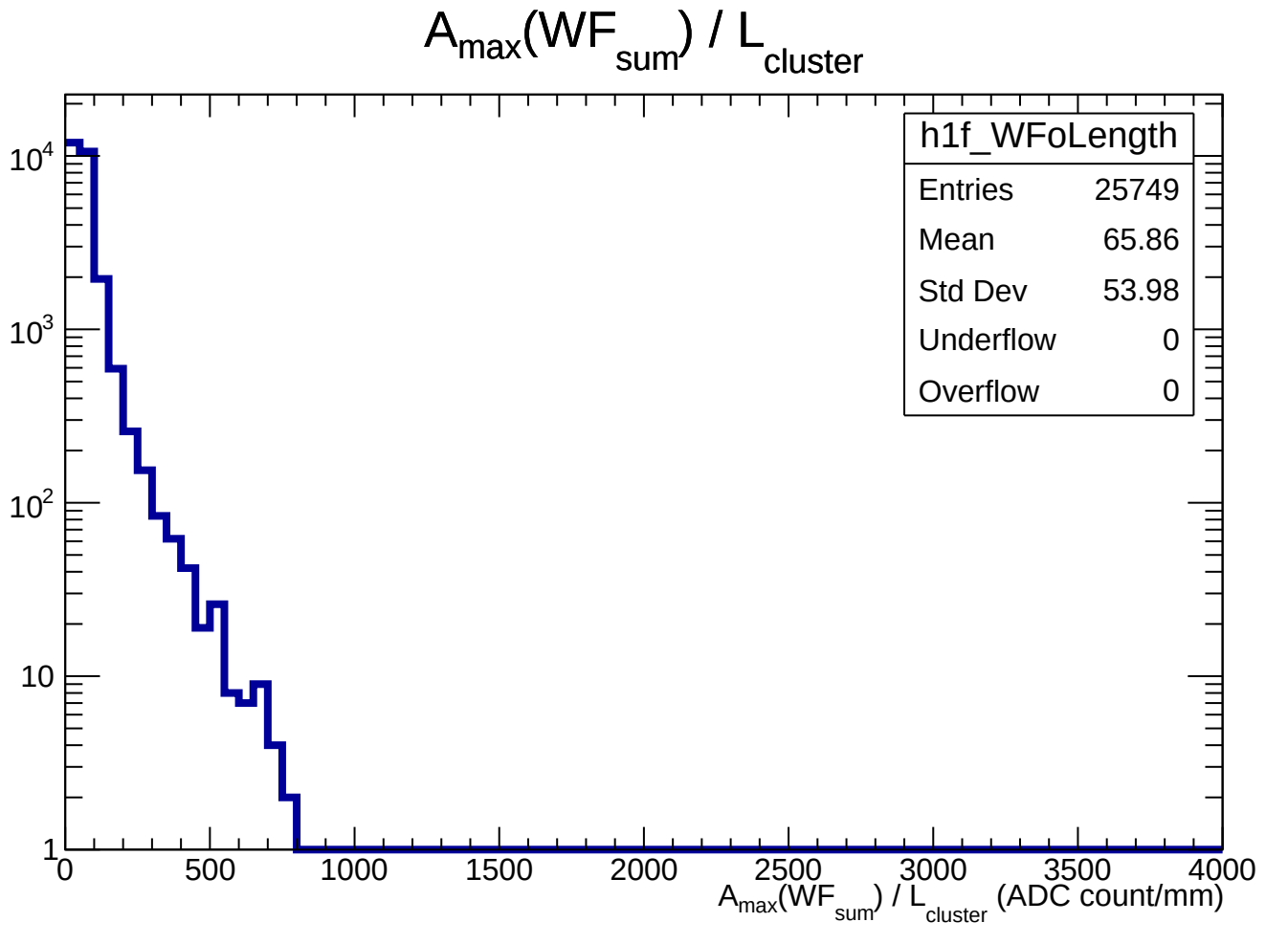

Q^{anode}/ADC_{max} VS length in pad (before length cut)
Q^{anode}/ADC_{max}
Length in pad (mm)
h2f_LUTvsLength
Entries 25916
Mean x 11.21
Mean y 1.331
Std Dev x 0.7366
Std Dev y 0.237
0 0 0
0 25916 0
0 0 0

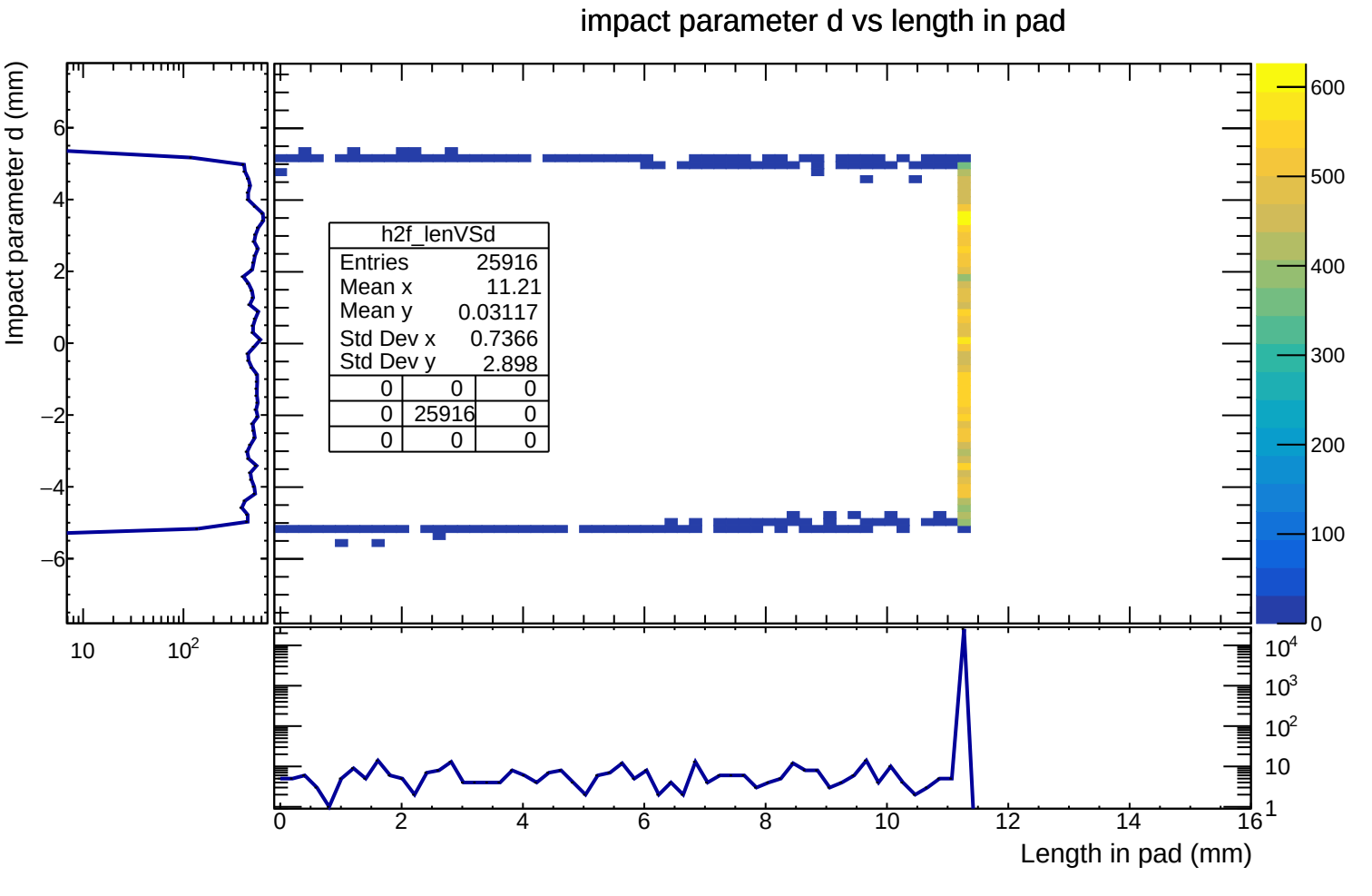

WF_sum VS length in cluster
WF_sum (ADC count)
Length in cluster (mm)
h2f_WFvsLength
Entries 25749
Mean x 11.27
Mean y 659.2
Std Dev x 0.06278
Std Dev y 338.9
0 831 0
0 24918 0
0 0 0


WF sum truncated VS length in cluster
WF sum trunc (ADC count)
Length in cluster (mm)
h2f_WFsumvsLength
Entries 17898
Mean x 11.27
Mean y 497.4
Std Dev x 0.01655
Std Dev y 167
0 0 0
0 17898 0
0 0 0


WF*sum VS length in cluster
WF*sum (ADC count)
Length in cluster (mm)
h2f_WFstarvsLen
Entries 25748
Mean x 11.27
Mean y 594.5
Std Dev x 0.01397
Std Dev y 320.9
0 644 0
0 25104 0
0 0 0


WF*sum truncated VS length in cluster
WF*sum trunc (ADC count)
Length in cluster (mm)
h2f_WFstartrcvsLen
Entries 17898
Mean x 11.27
Mean y 608.7
Std Dev x 0.01678
Std Dev y 323
0 497 0
0 17401 0
0 0 0


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 25749
Mean 65.86
Std Dev 53.98
Underflow 0
Overflow 0
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)
h2f_lenVSd
Entries 25916
Mean x 11.21
Mean y 0.03117
Std Dev x 0.7366
Std Dev y 2.898
0 0 0
0 25916 0
0 0 0
Length in pad (mm)