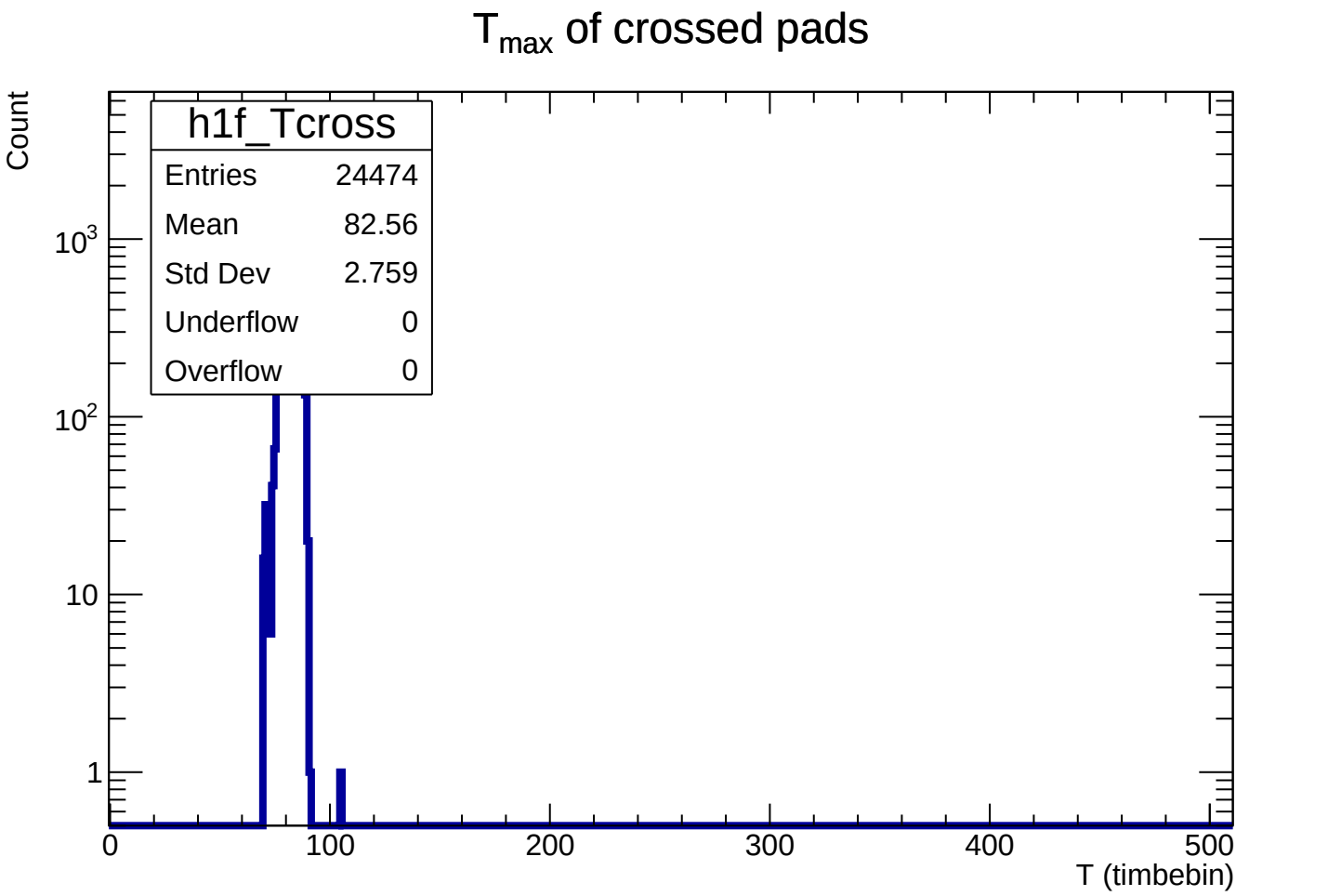
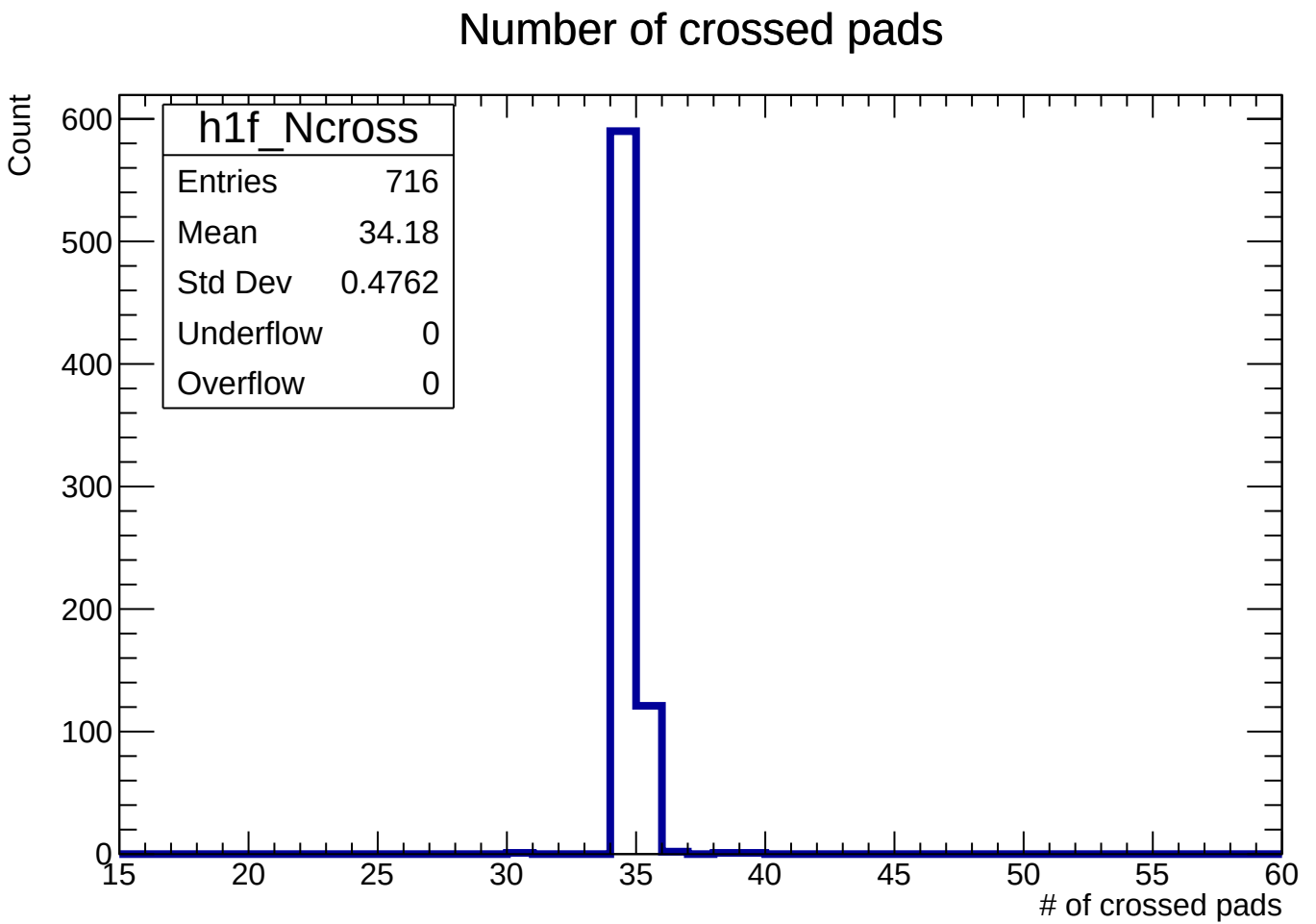
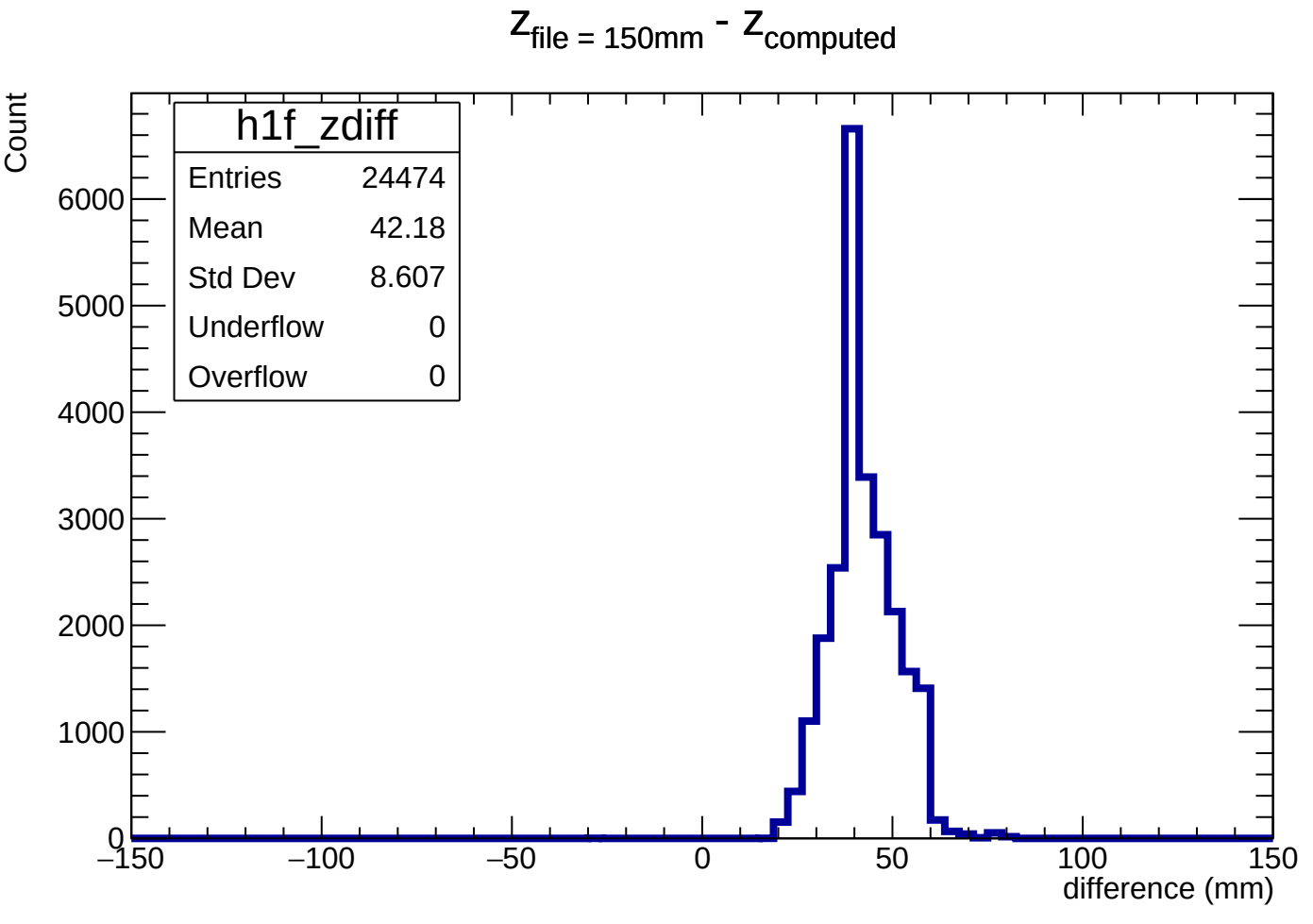
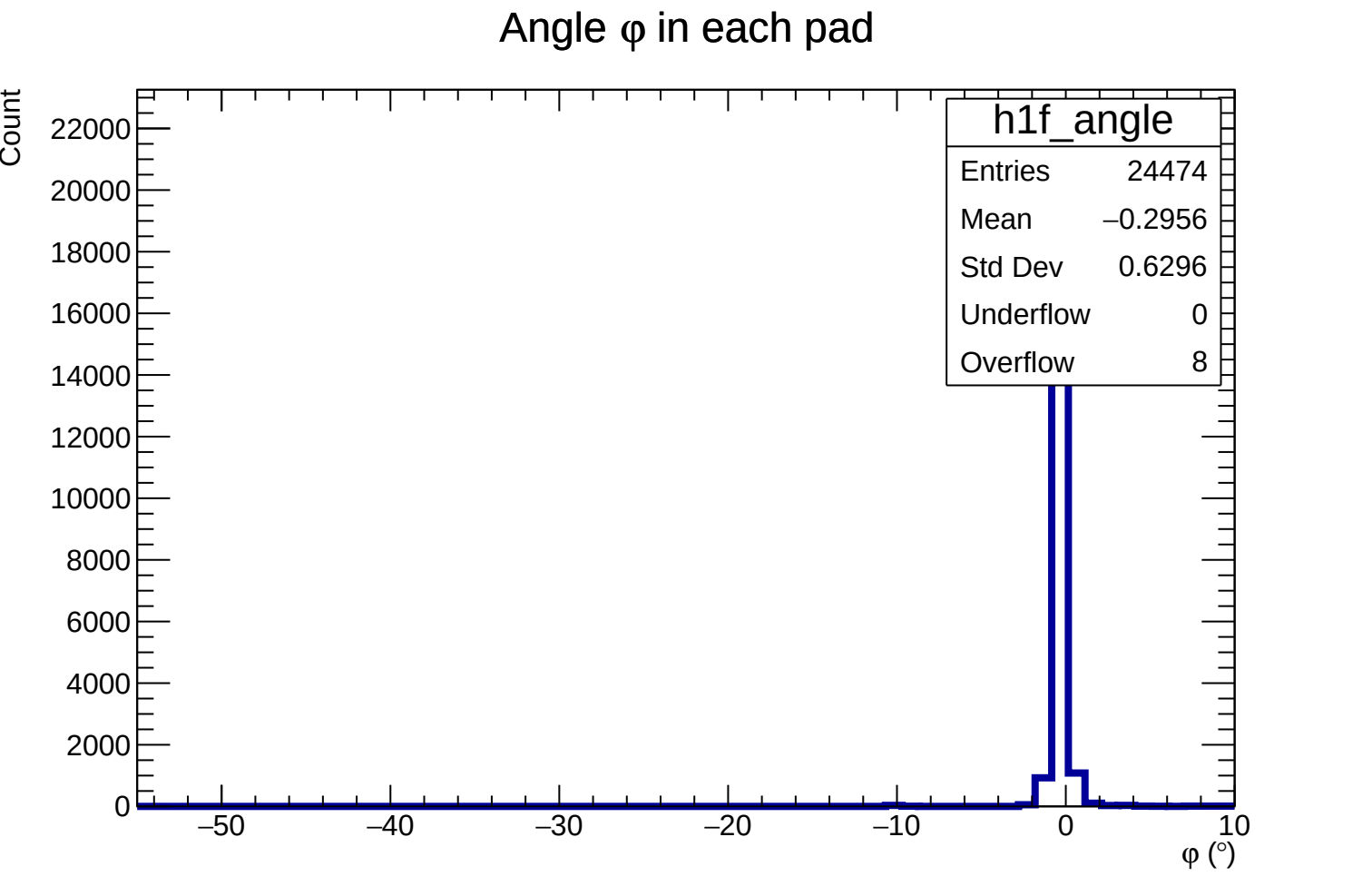
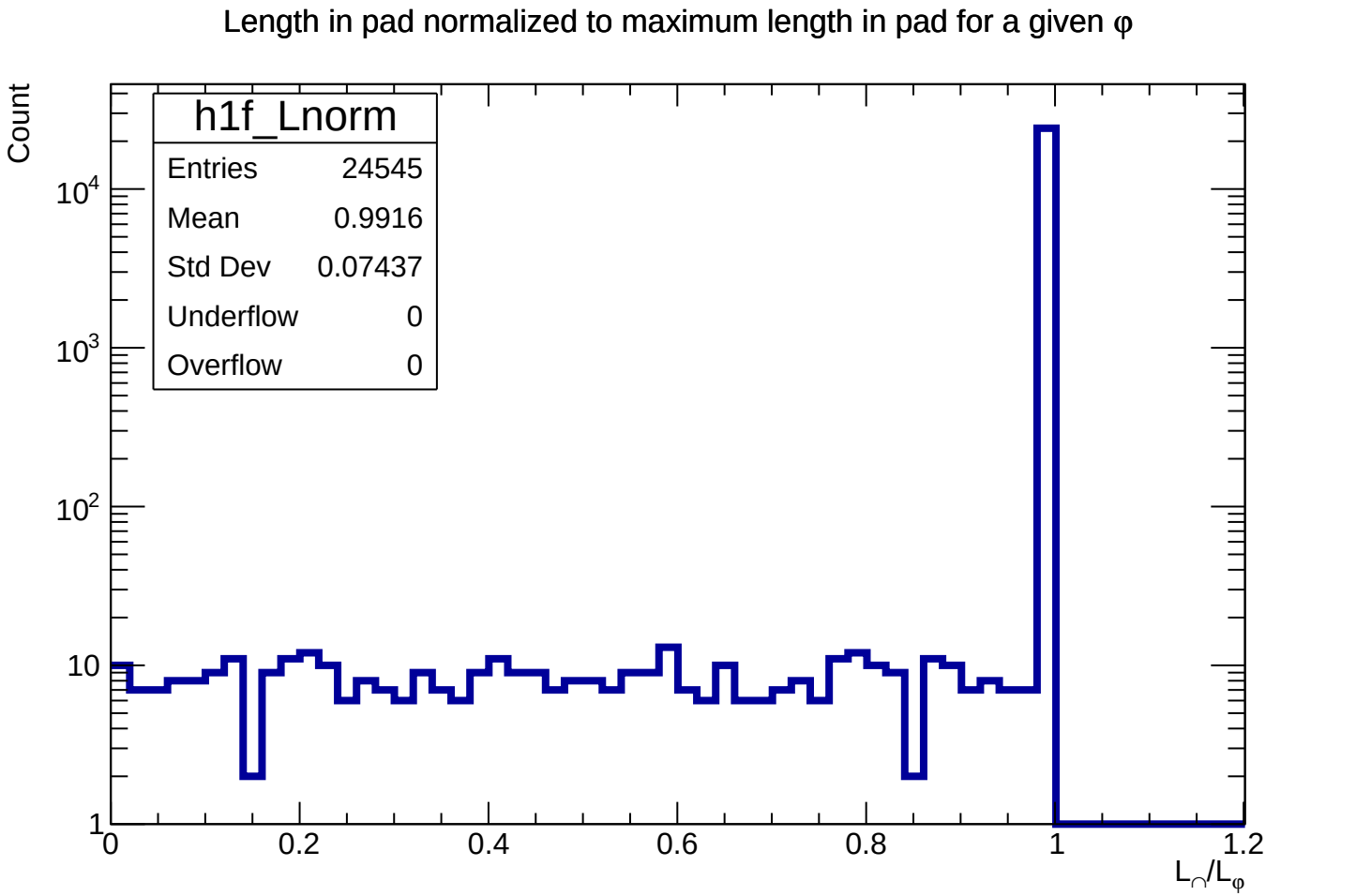
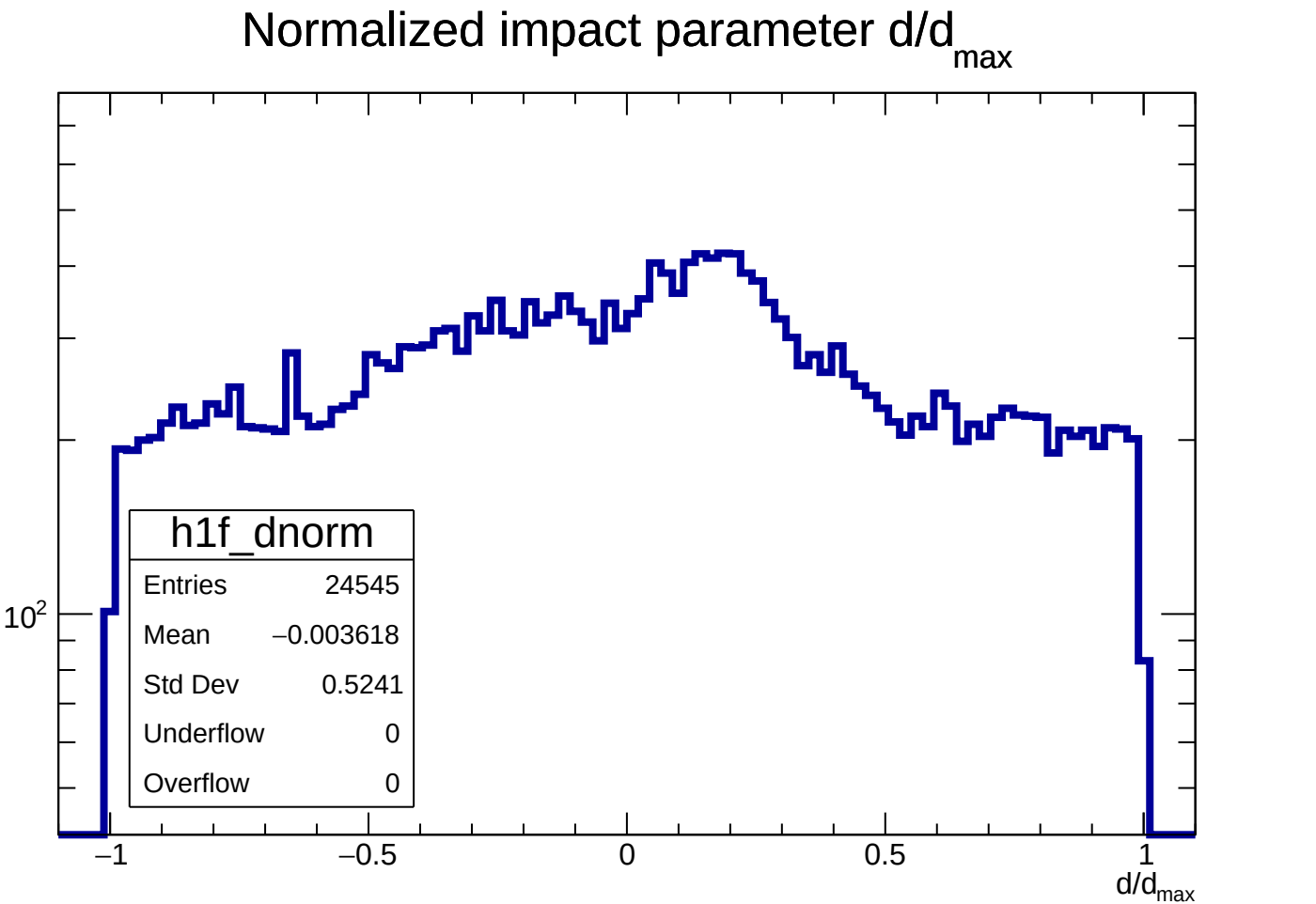

T_{max} of crossed pads
h1f_Tcross
Entries 24474
Mean 82.56
Std Dev 2.759
Underflow 0
Overflow 0
Count
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

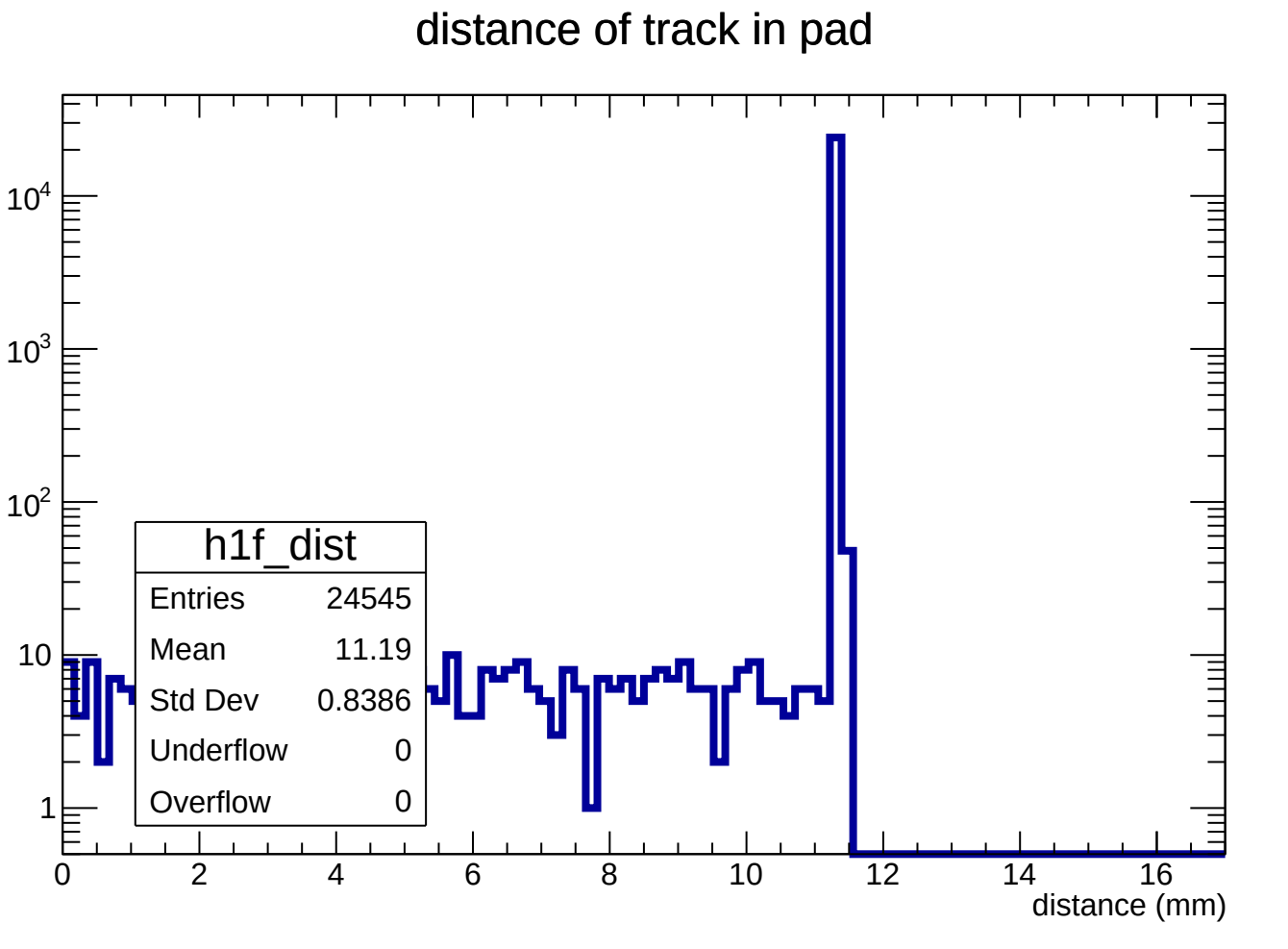

Number of crossed pads
h1f_Ncross
Entries 716
Mean 34.18
Std Dev 0.4762
Underflow 0
Overflow 0
Count
0
100
200
300
400
500
600
15
20
25
30
35
40
45
50
55
60
# of crossed pads

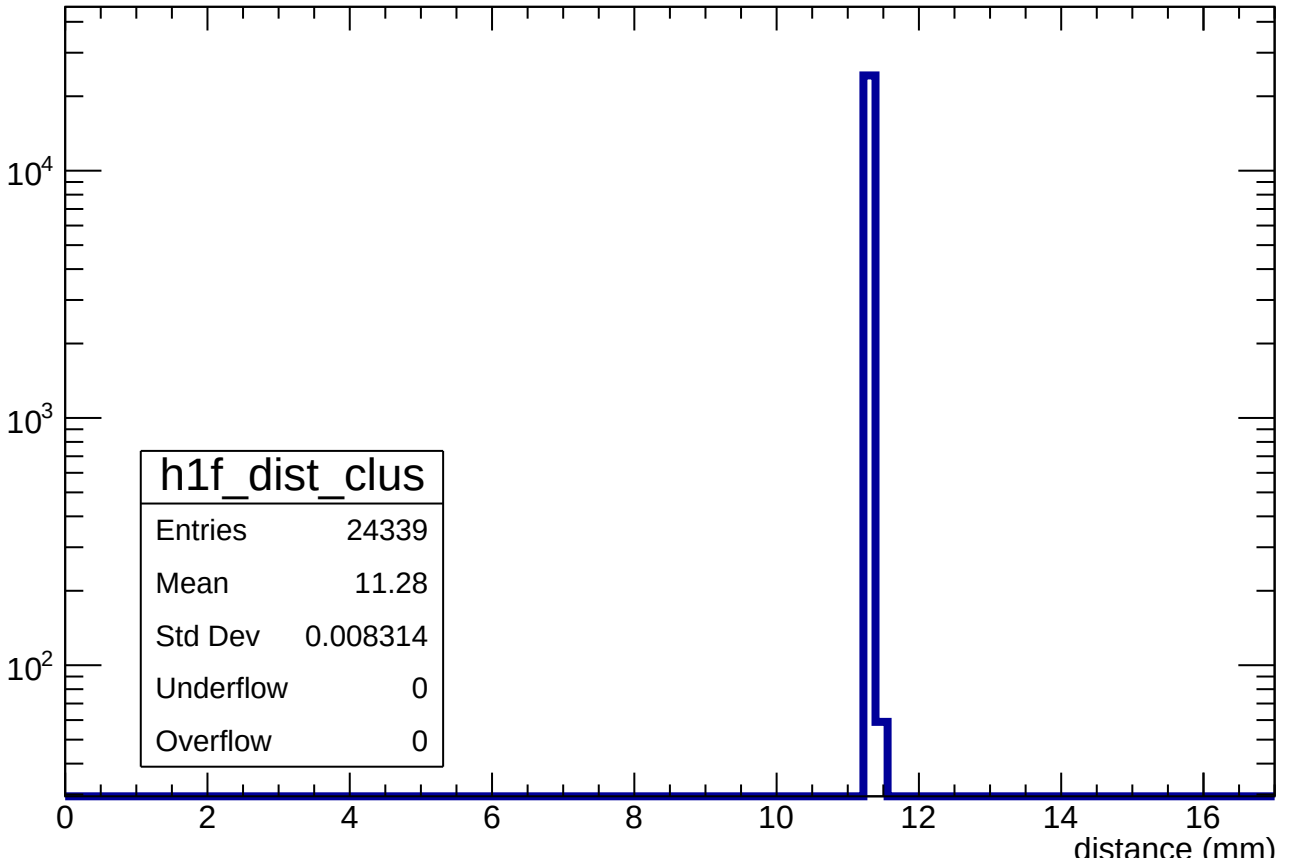

$z_{file = 150mm} - z_{computed}$
h1f_zdiff
Entries 24474
Mean 42.18
Std Dev 8.607
Underflow 0
Overflow 0
Count
6000
5000
4000
3000
2000
1000
0
–150
–100
–50
0
50
100
150
difference (mm)

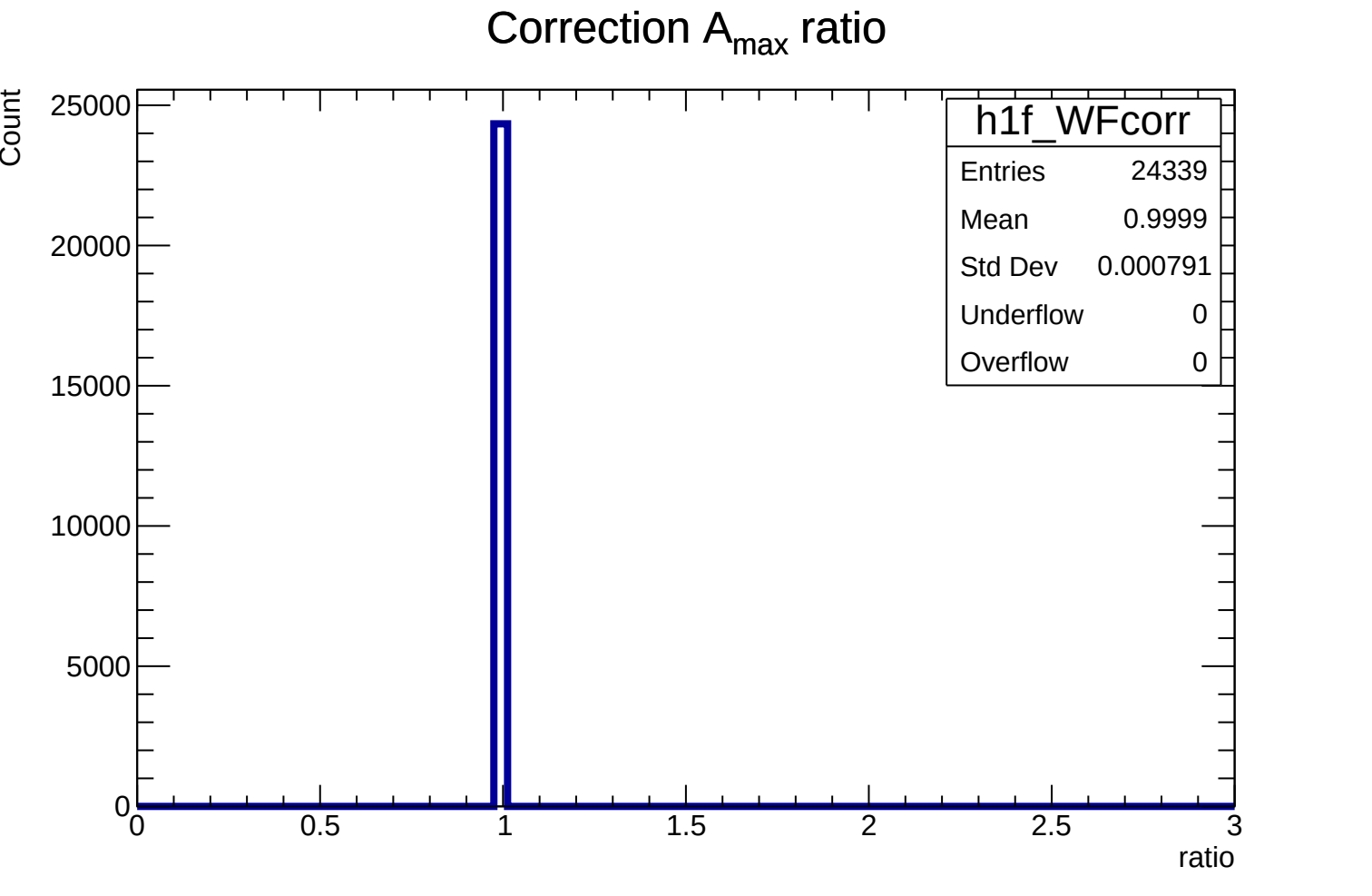

Angle φ in each pad
Count
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
h1f_angle
Entries 24474
Mean –0.2956
Std Dev 0.6296
Underflow 0
Overflow 8
–50
–40
–30
–20
–10
0
10
φ (°)

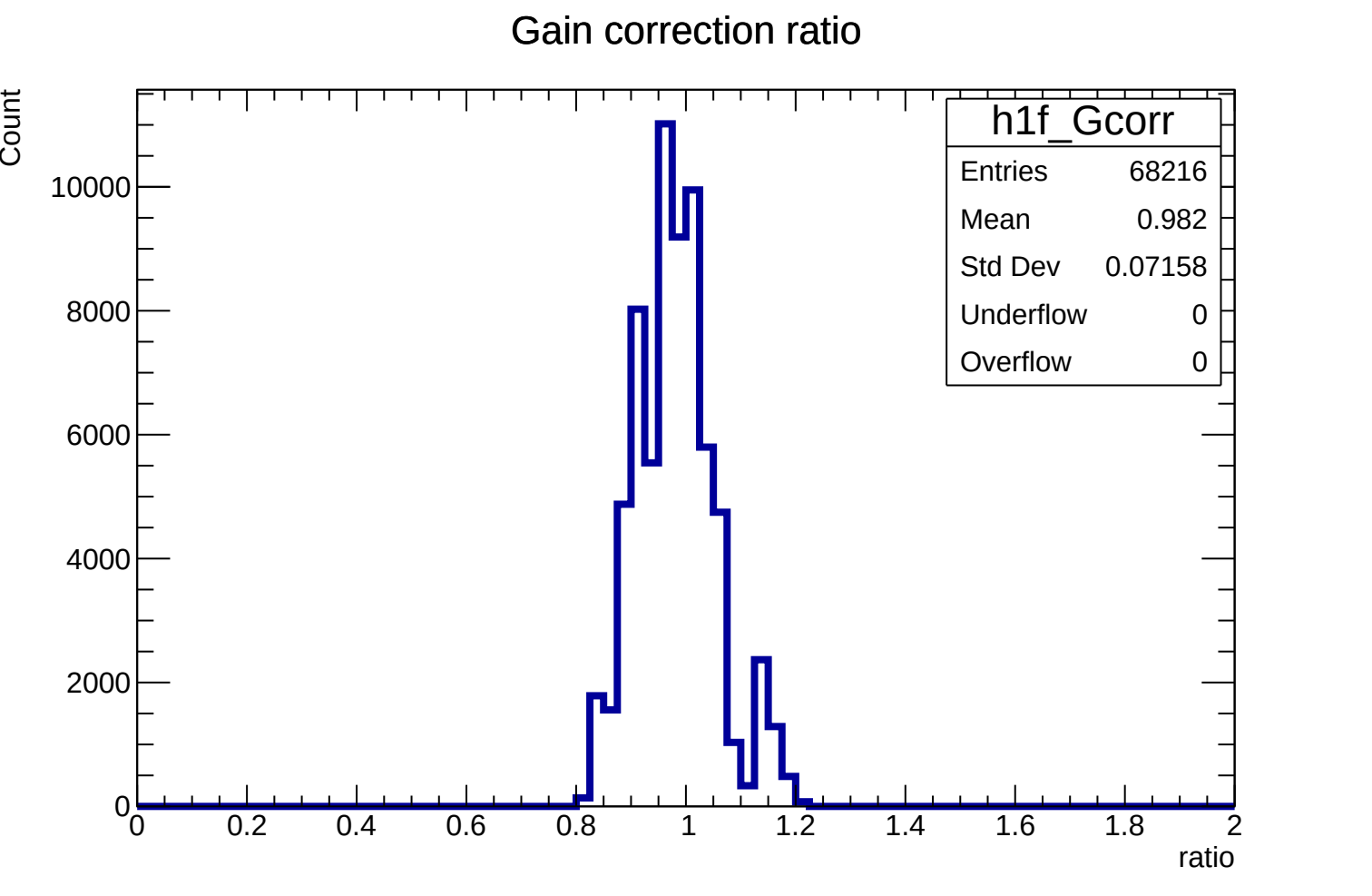

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 24545
Mean 0.9916
Std Dev 0.07437
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
1.2
$L_{\cap}/L_{\varphi}$

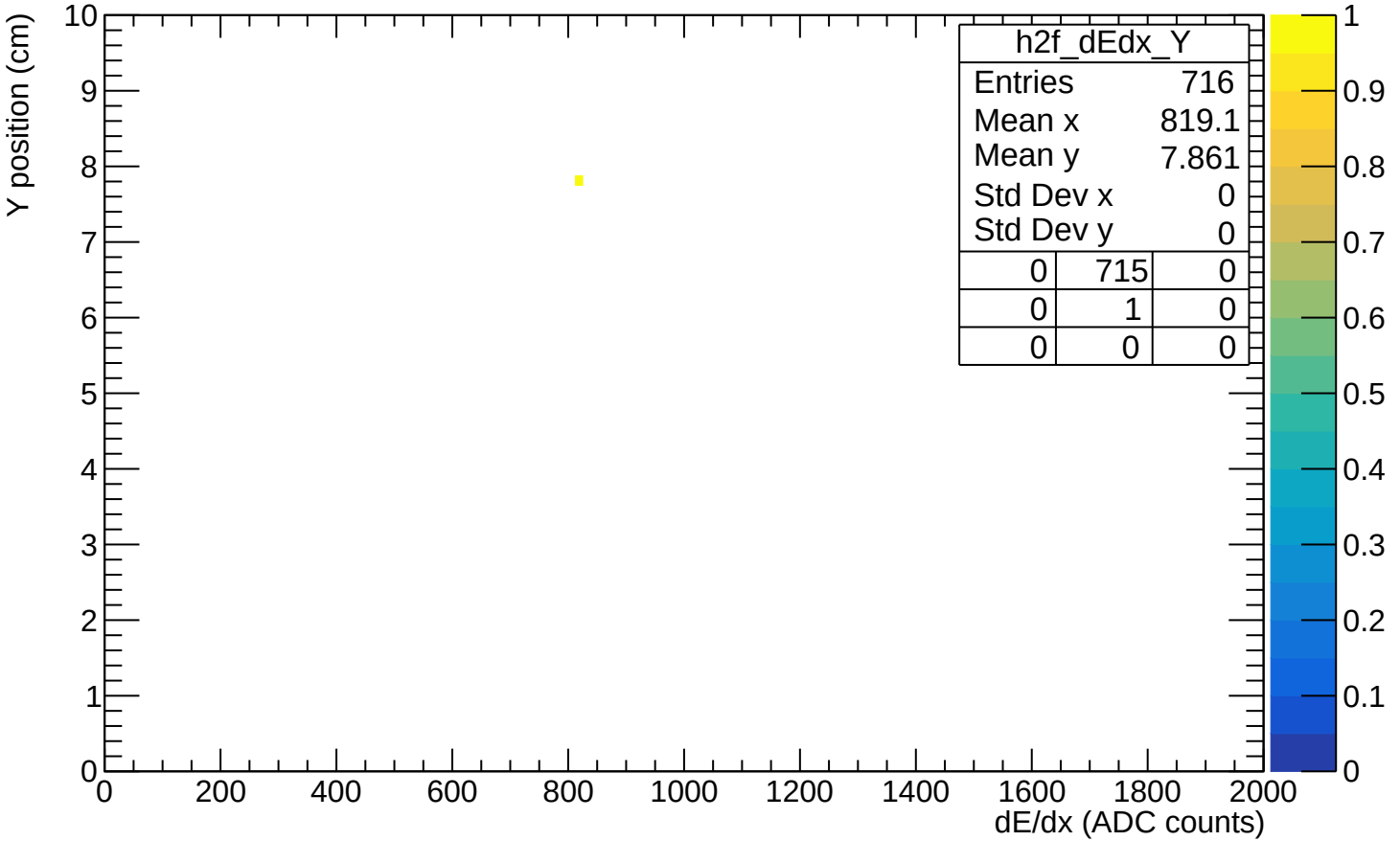

Normalized impact parameter d/d max
h1f_dnorm
Entries 24545
Mean −0.003618
Std Dev 0.5241
Underflow 0
Overflow 0
10 2
−1
−0.5
0
0.5
1
d/d max

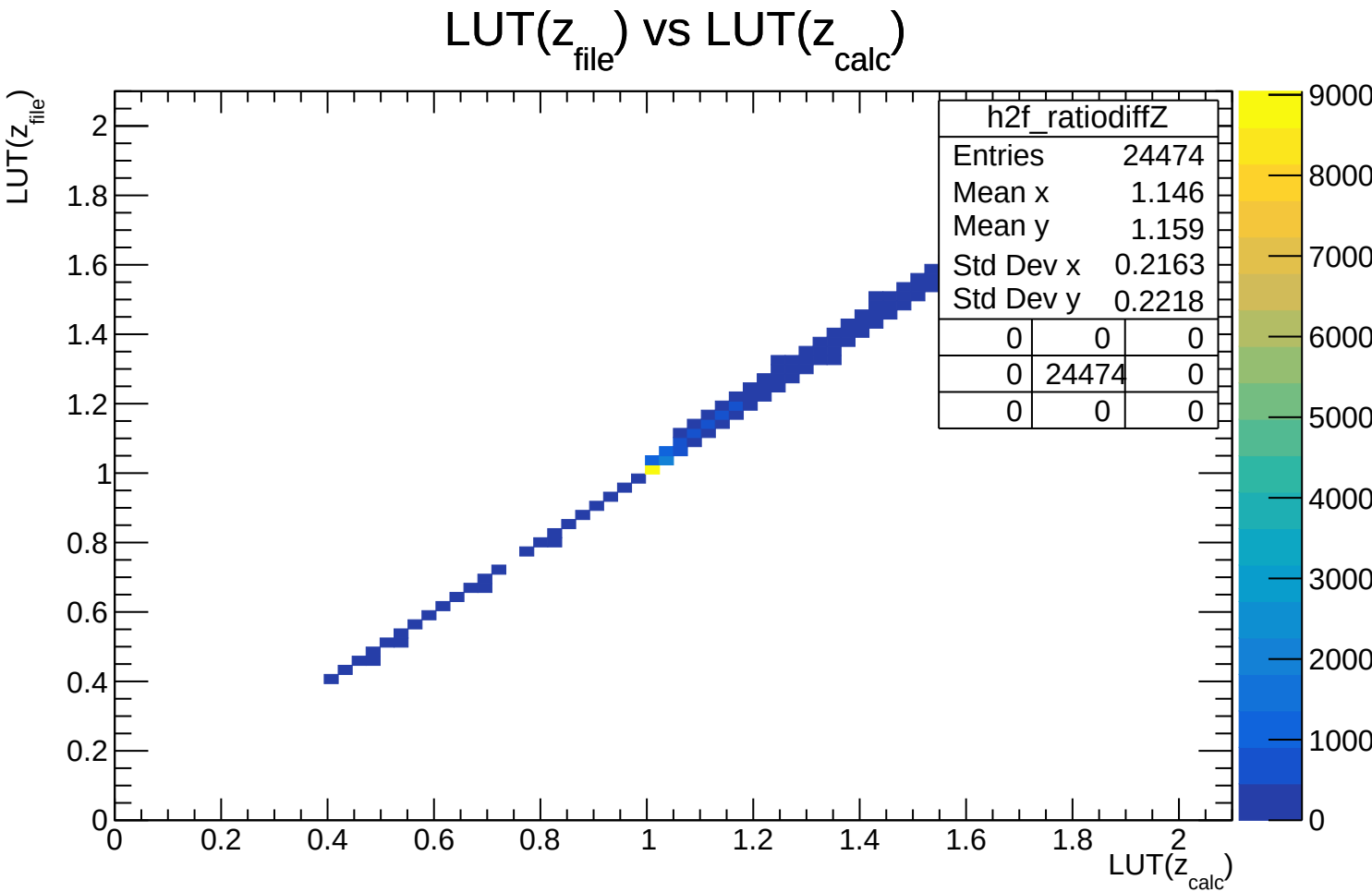

distance of track in pad
h1f_dist
Entries 24545
Mean 11.19
Std Dev 0.8386
Underflow 0
Overflow 0
10^4
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
distance (mm)

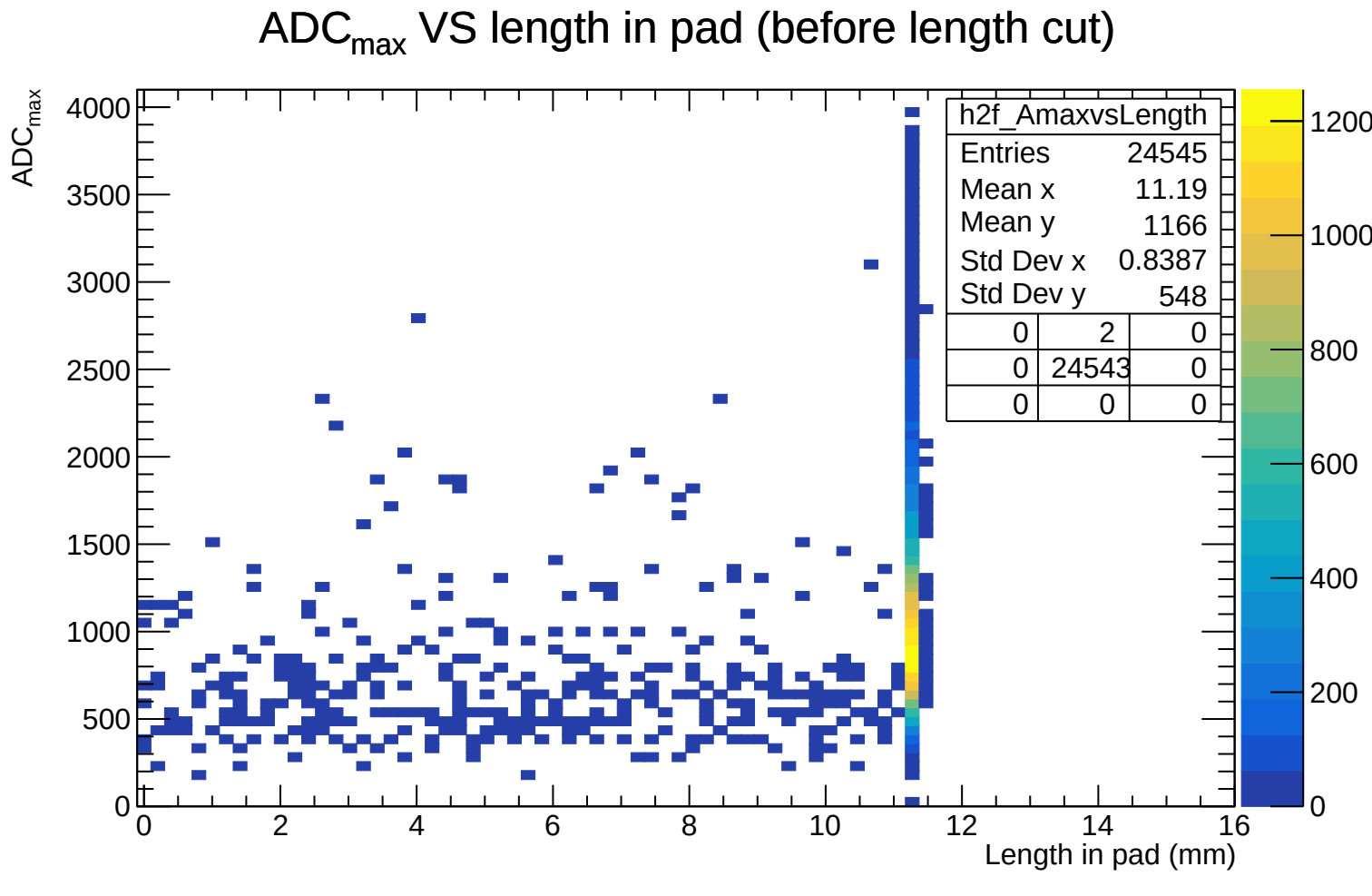

Distance of track in cluster
10^4
10^3
10^2
h1f_dist_clus
Entries 24339
Mean 11.28
Std Dev 0.008314
Underflow 0
Overflow 0
0
2
4
6
8
10
12
14
16
distance (mm)

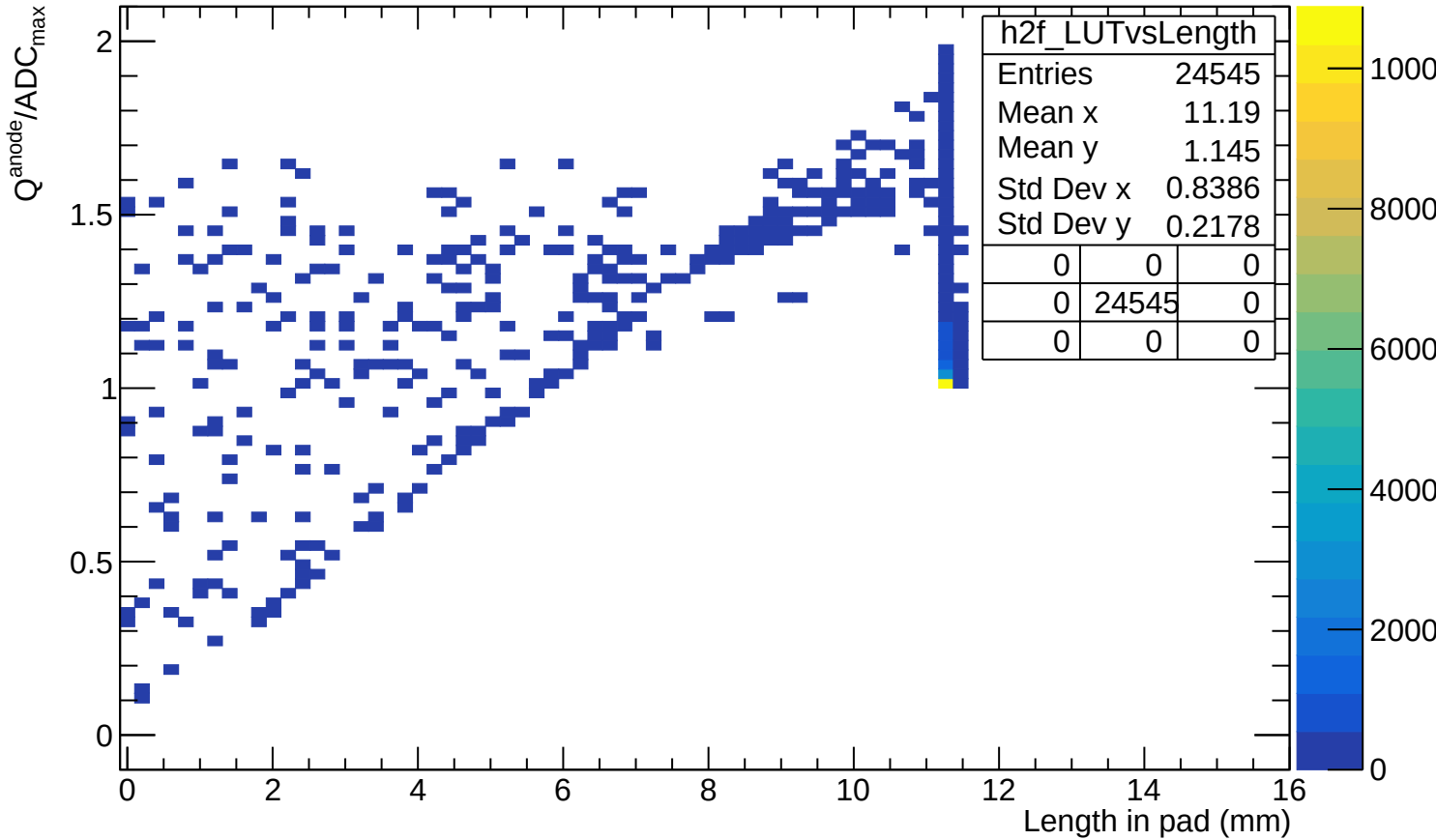

Correction A_{max} ratio
Count
25000
20000
15000
10000
5000
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 24339
Mean 0.9999
Std Dev 0.000791
Underflow 0
Overflow 0

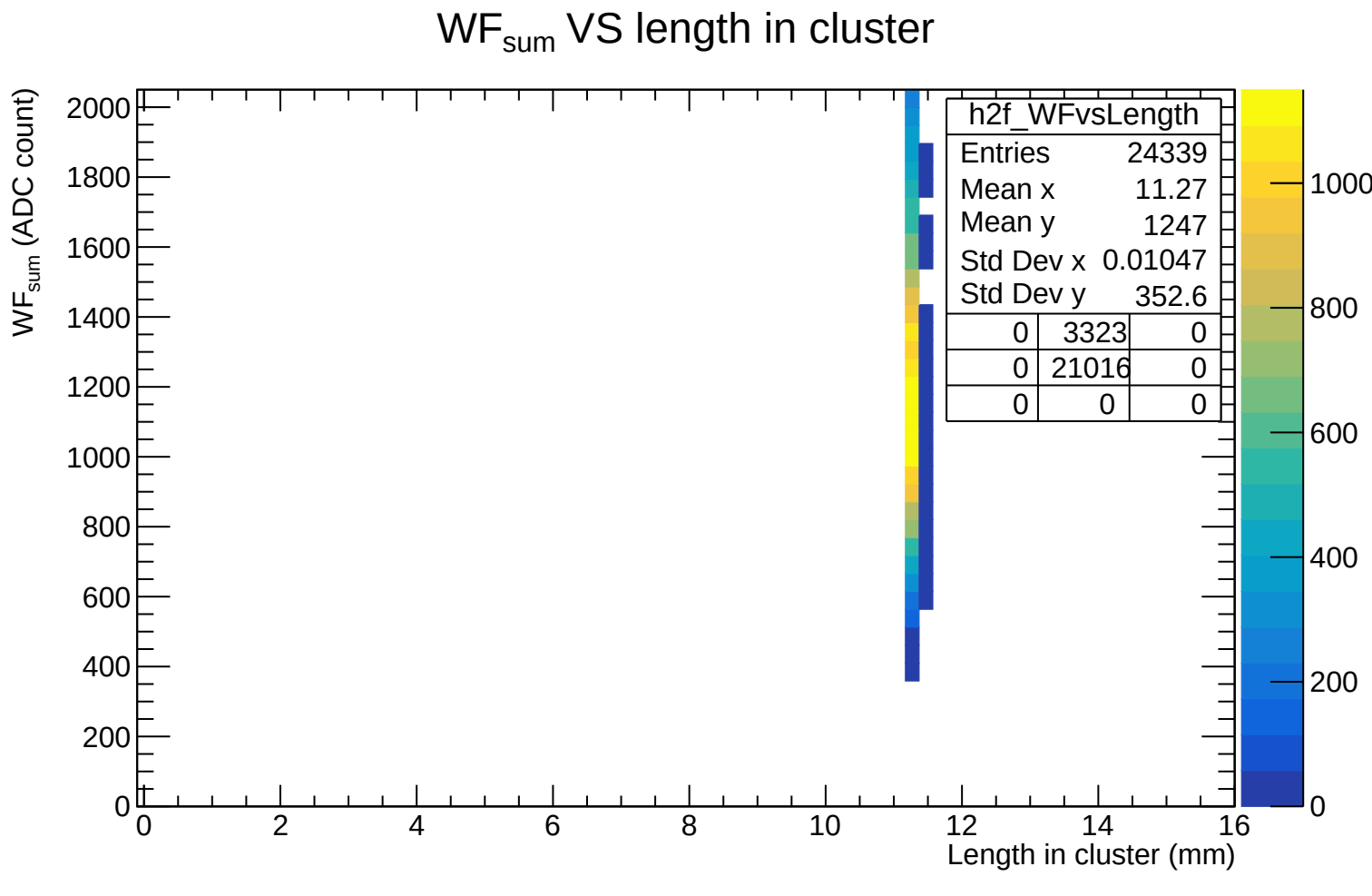

Gain correction ratio
h1f_Gcorr
Entries 68216
Mean 0.982
Std Dev 0.07158
Underflow 0
Overflow 0
Count
ratio
0
2000
4000
6000
8000
10000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

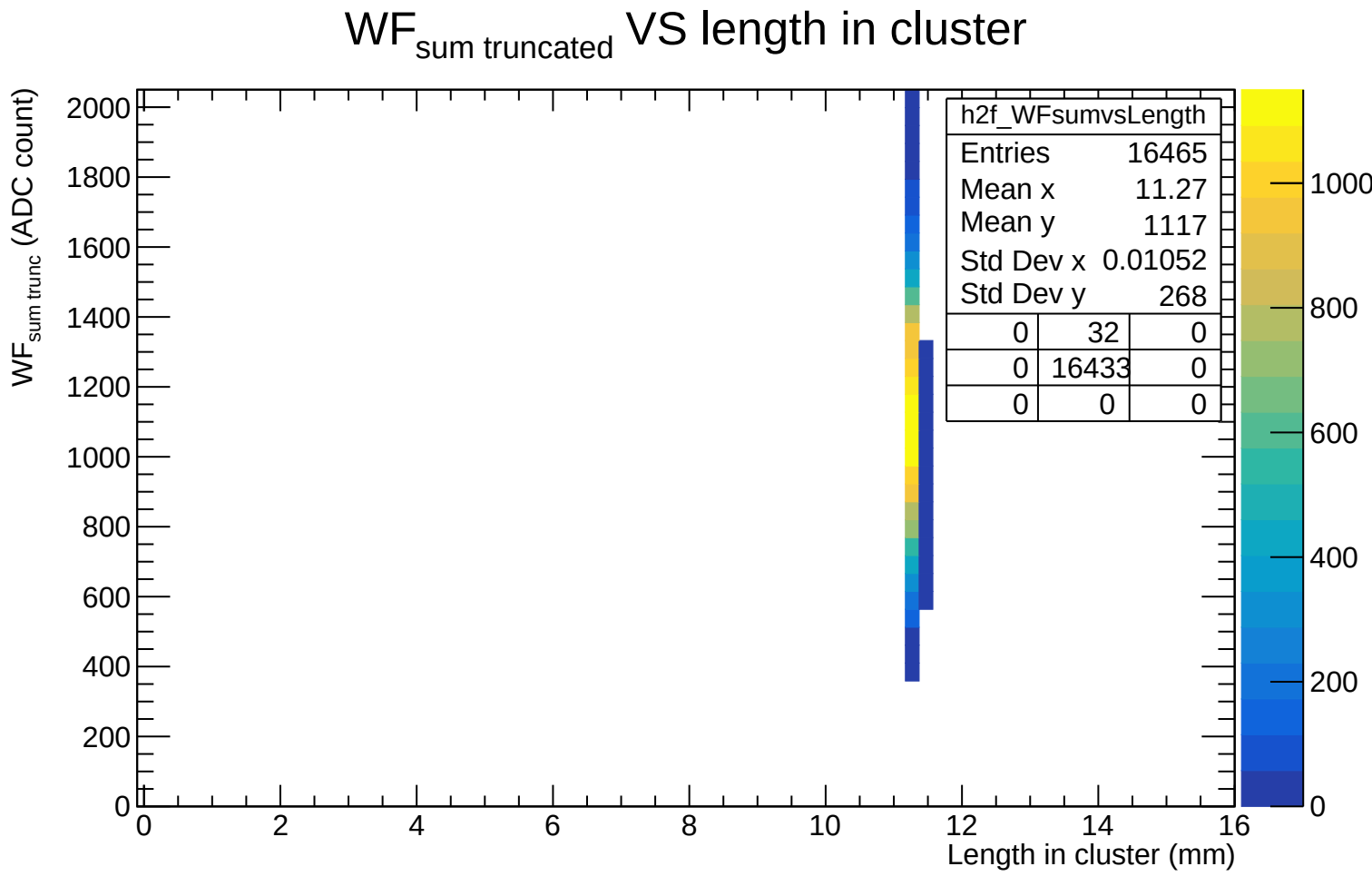

Y position VS dE/dx
h2f_dEdx_Y
Entries 716
Mean x 819.1
Mean y 7.861
Std Dev x 0
Std Dev y 0
0 715 0
0 1 0
0 0 0
Y position (cm)
dE/dx (ADC counts)
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 1 2 3 4 5 6 7 8 9 10
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

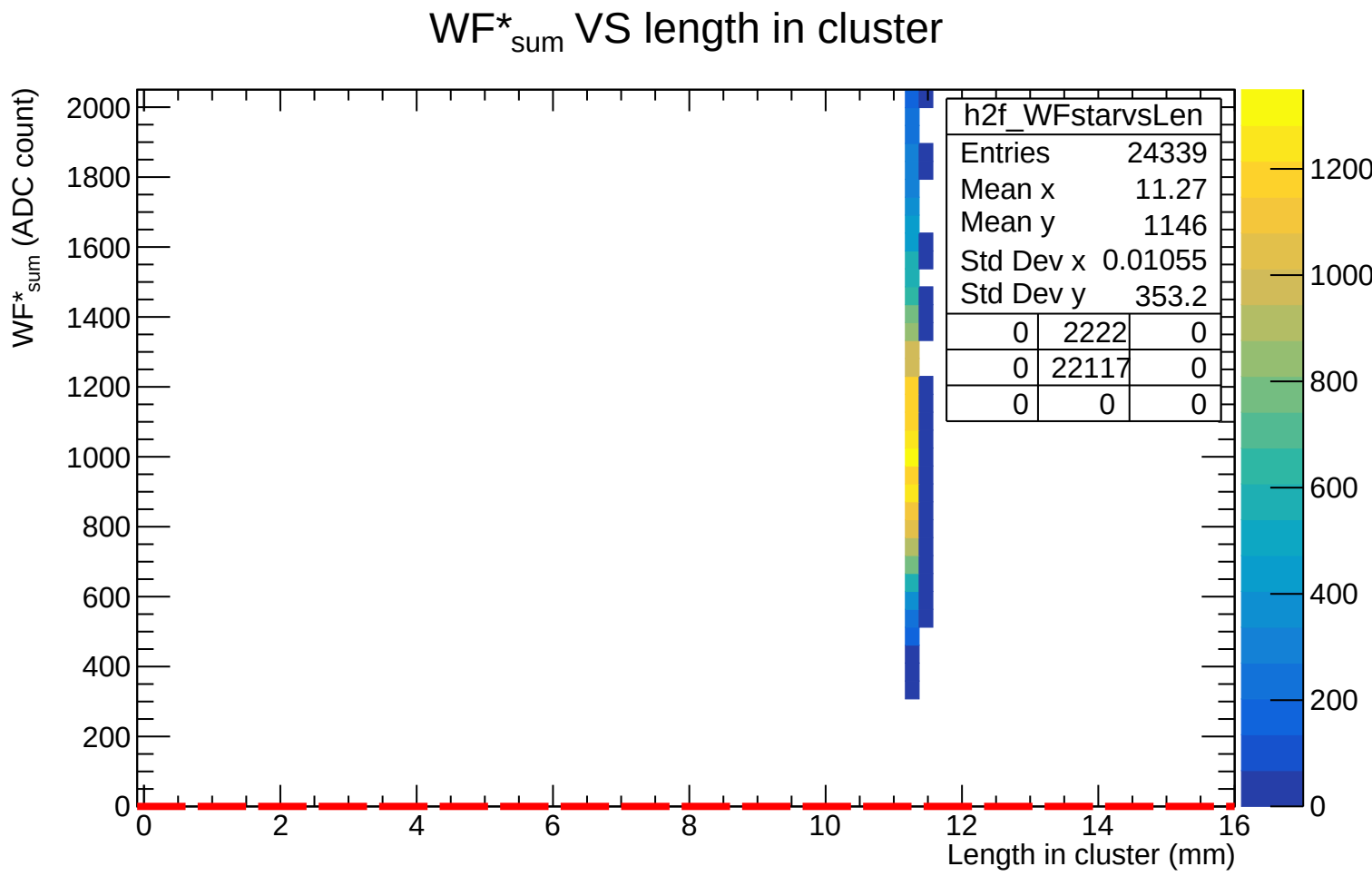

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 24474
Mean x 1.146
Mean y 1.159
Std Dev x 0.2163
Std Dev y 0.2218
0 0 0
0 24474 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 1000 2000 3000 4000 5000 6000 7000 8000 9000

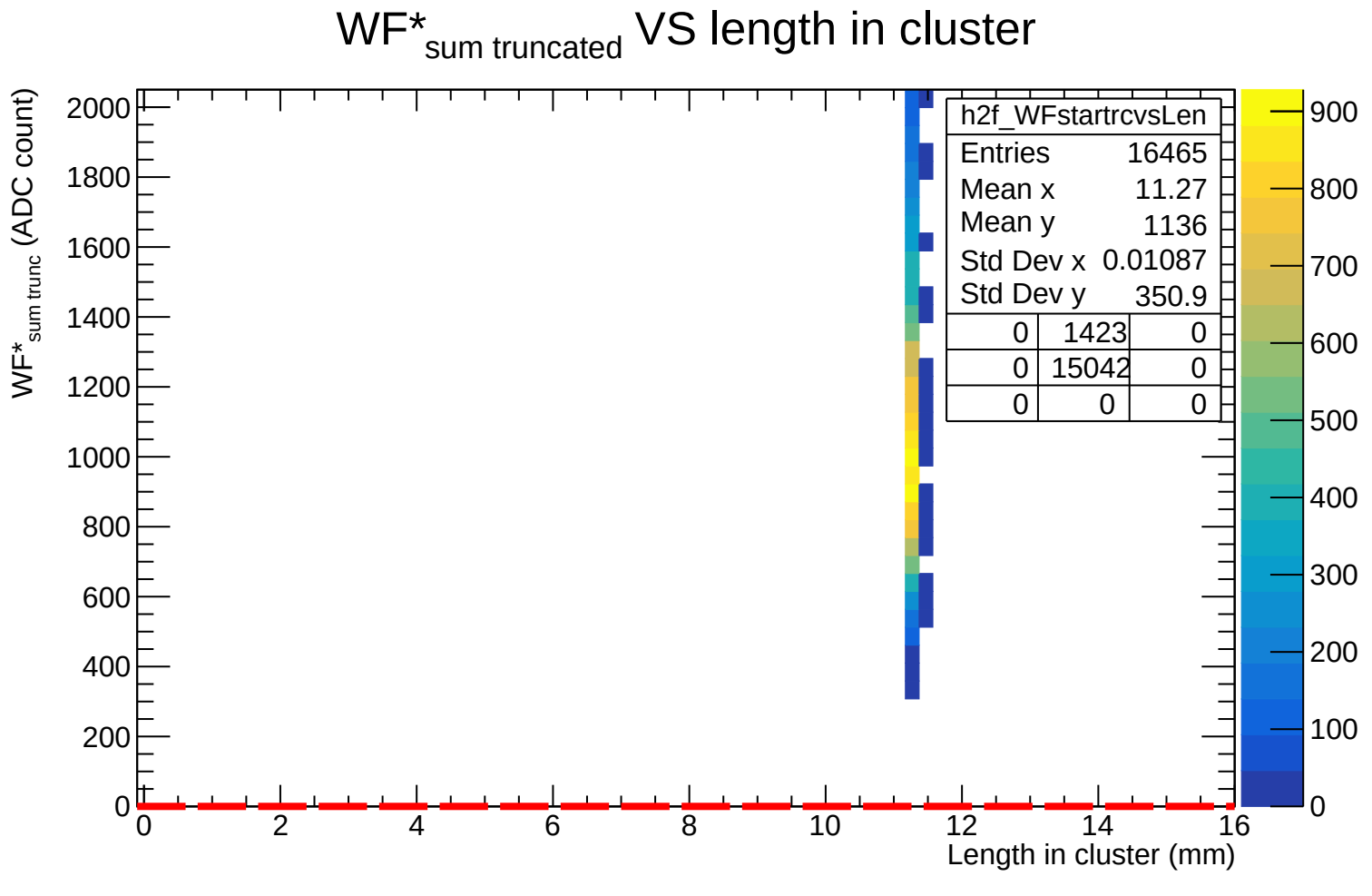

ADC_max VS length in pad (before length cut)
ADC_max
Length in pad (mm)
h2f_AmaxvsLength
Entries 24545
Mean x 11.19
Mean y 1166
Std Dev x 0.8387
Std Dev y 548
0 2 0
0 24543 0
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200

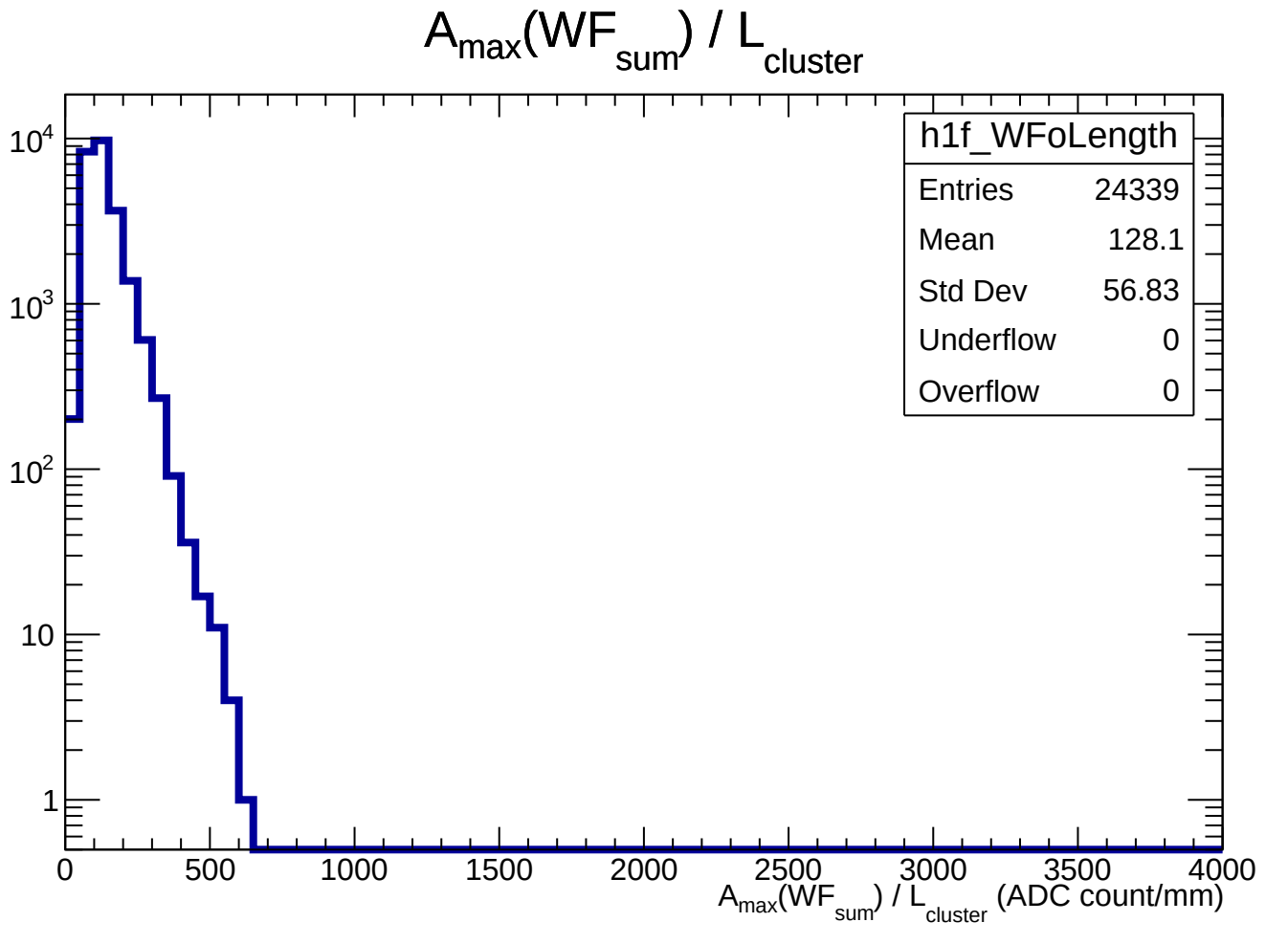

Q^anode/ADC_max VS length in pad (before length cut)
Q^anode/ADC_max
Length in pad (mm)
h2f_LUTvsLength
Entries 24545
Mean x 11.19
Mean y 1.145
Std Dev x 0.8386
Std Dev y 0.2178
0 0 0
0 24545 0
0 0 0
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
2000
4000
6000
8000
1000

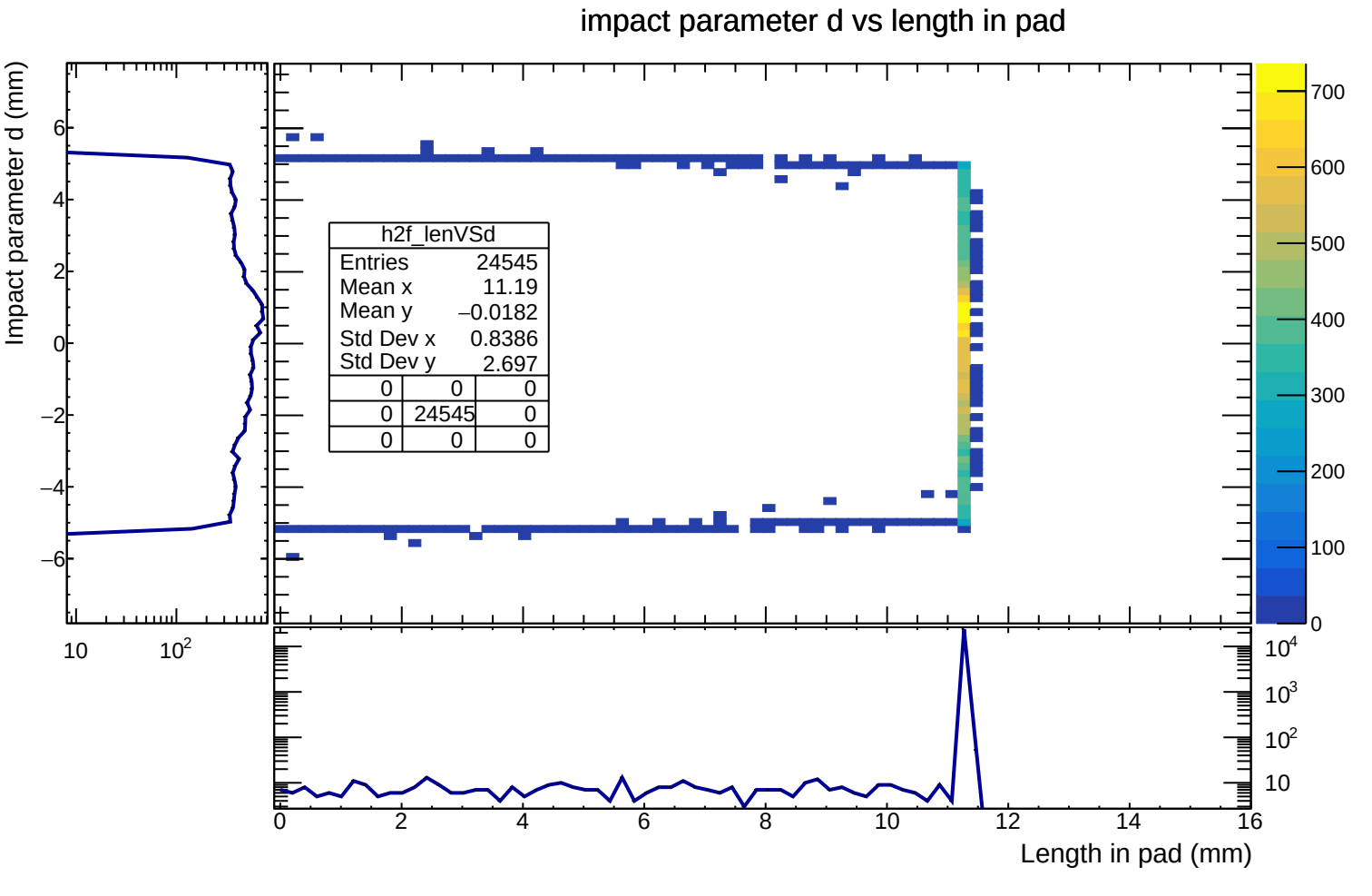

WF_sum VS length in cluster
WF_sum (ADC count)
Length in cluster (mm)
h2f_WFvsLength
Entries 24339
Mean x 11.27
Mean y 1247
Std Dev x 0.01047
Std Dev y 352.6
0 3323 0
0 21016 0
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000


WF sum truncated VS length in cluster
WF sum trunc (ADC count)
Length in cluster (mm)
h2f_WFsumvsLength
Entries 16465
Mean x 11.27
Mean y 1117
Std Dev x 0.01052
Std Dev y 268
0 32 0
0 16433 0
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000


WF*sum VS length in cluster
WF*sum (ADC count)
Length in cluster (mm)
h2f_WFstarvsLen
Entries 24339
Mean x 11.27
Mean y 1146
Std Dev x 0.01055
Std Dev y 353.2
0 2222 0
0 22117 0
0 0 0
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 200 400 600 800 1000 1200


WF*sum truncated VS length in cluster
WF*sum trunc (ADC count)
Length in cluster (mm)
h2f_WFstartrcvsLen
Entries 16465
Mean x 11.27
Mean y 1136
Std Dev x 0.01087
Std Dev y 350.9
0 1423 0
0 15042 0
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 100 200 300 400 500 600 700 800 900


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 24339
Mean 128.1
Std Dev 56.83
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 24545
Mean x 11.19
Mean y −0.0182
Std Dev x 0.8386
Std Dev y 2.697
0 0 0
0 24545 0
0 0 0
Length in pad (mm)