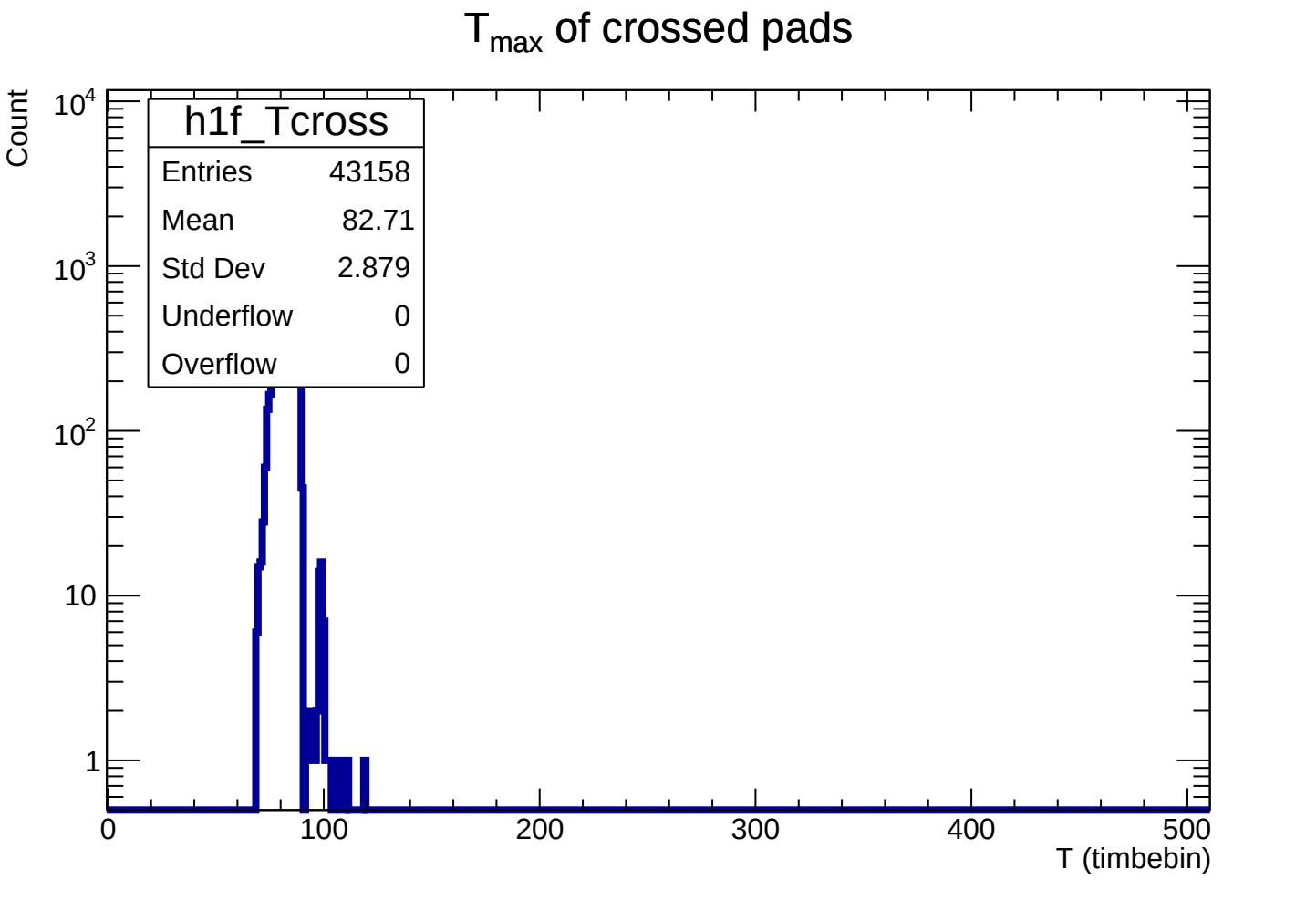
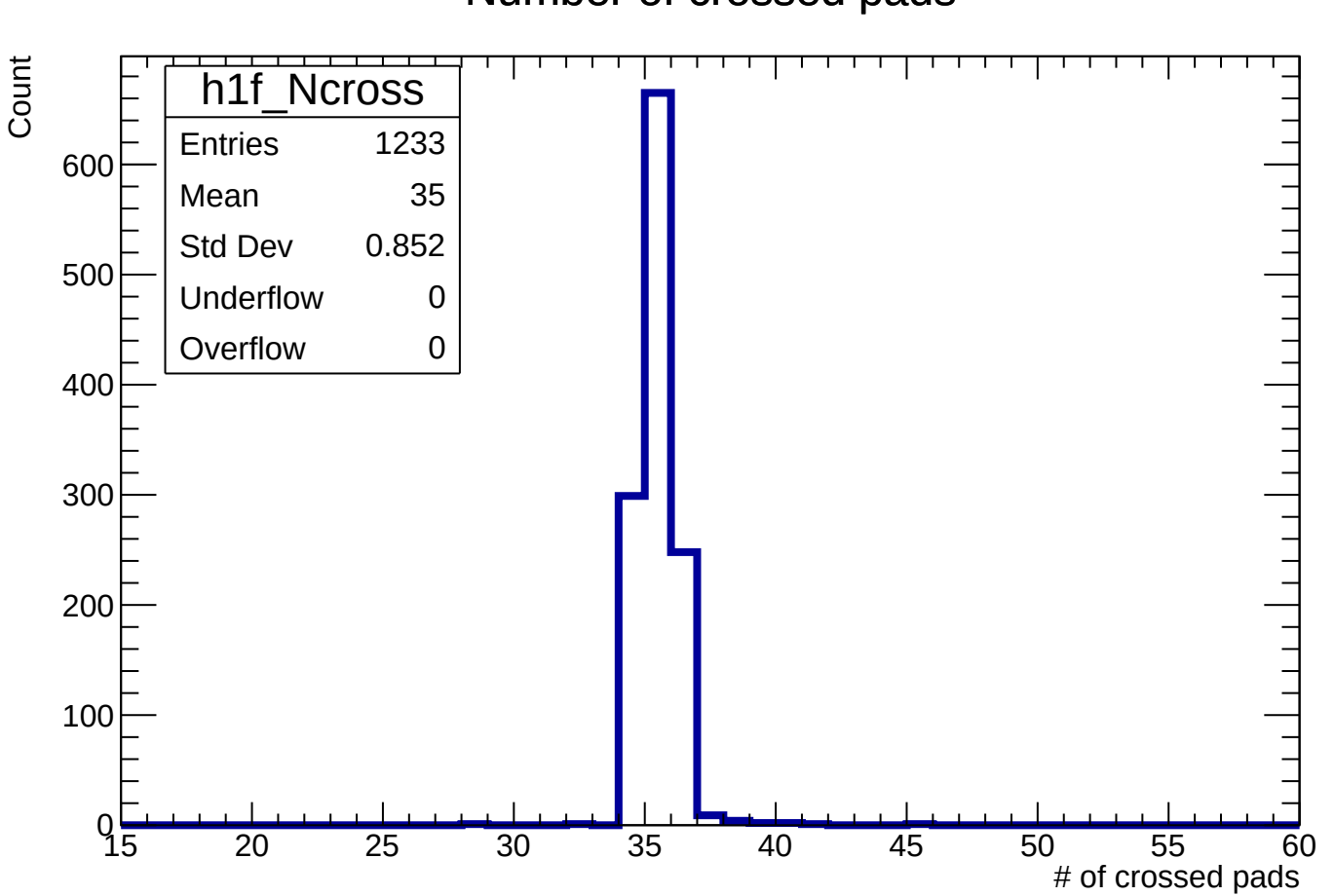
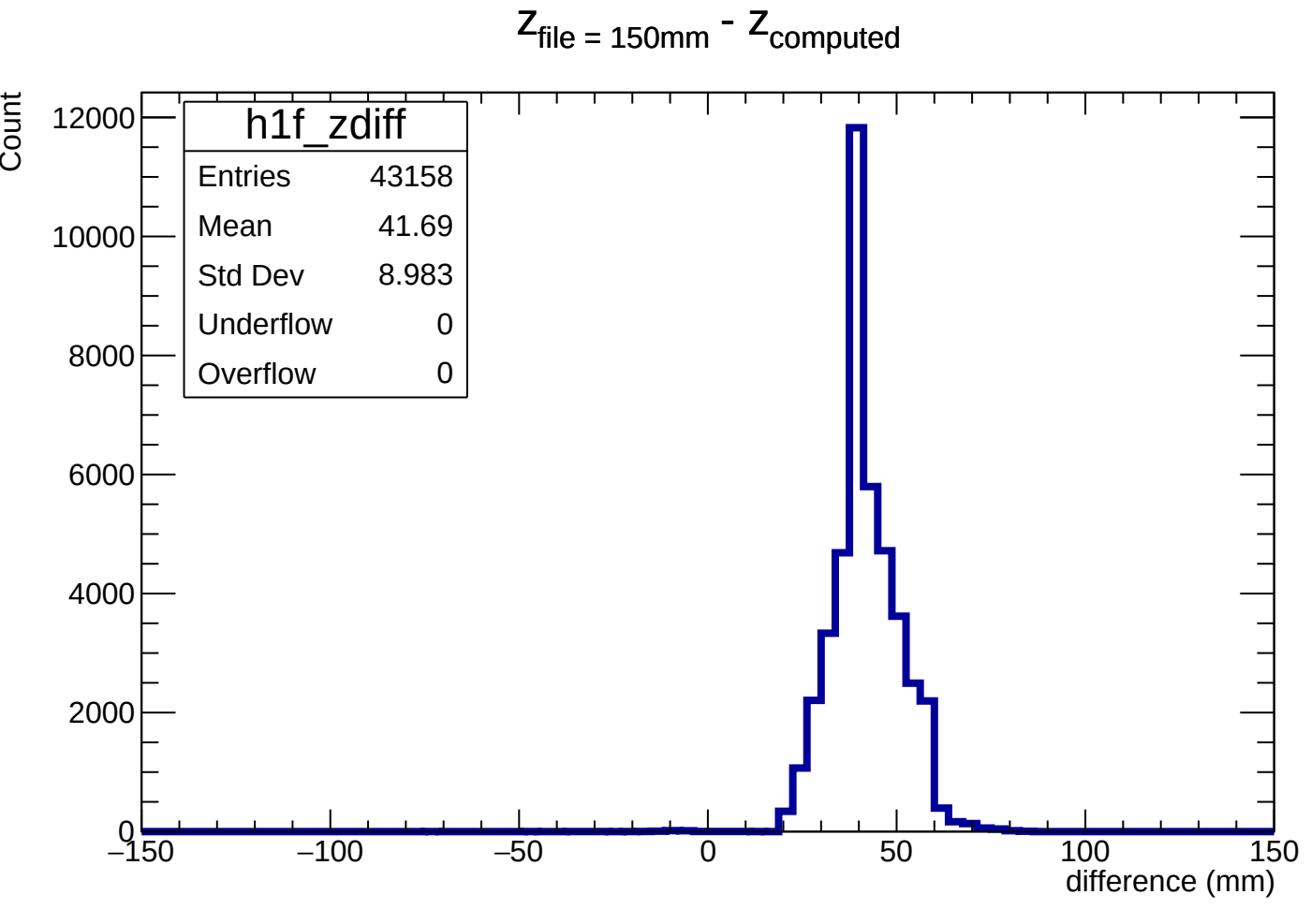
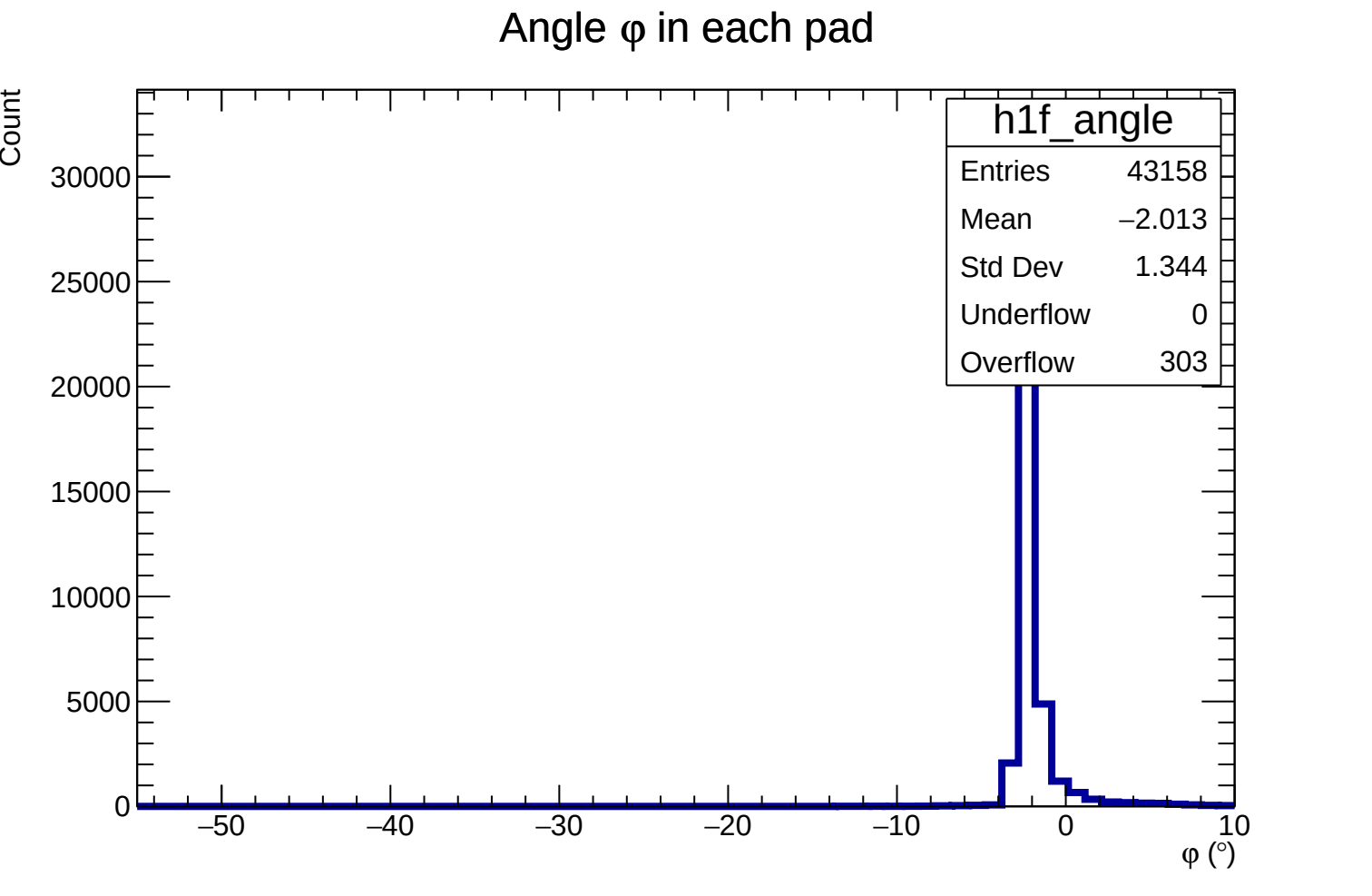
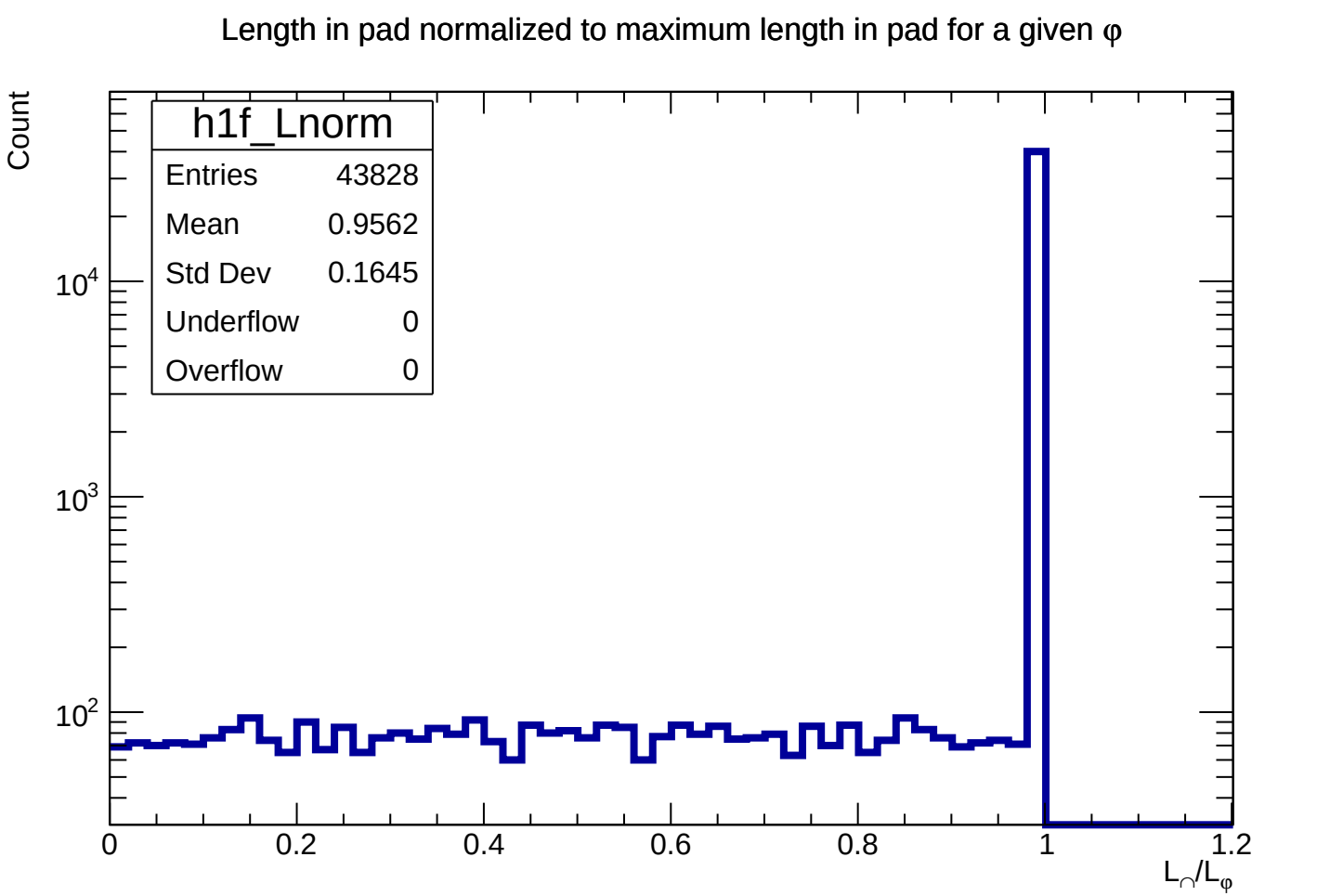
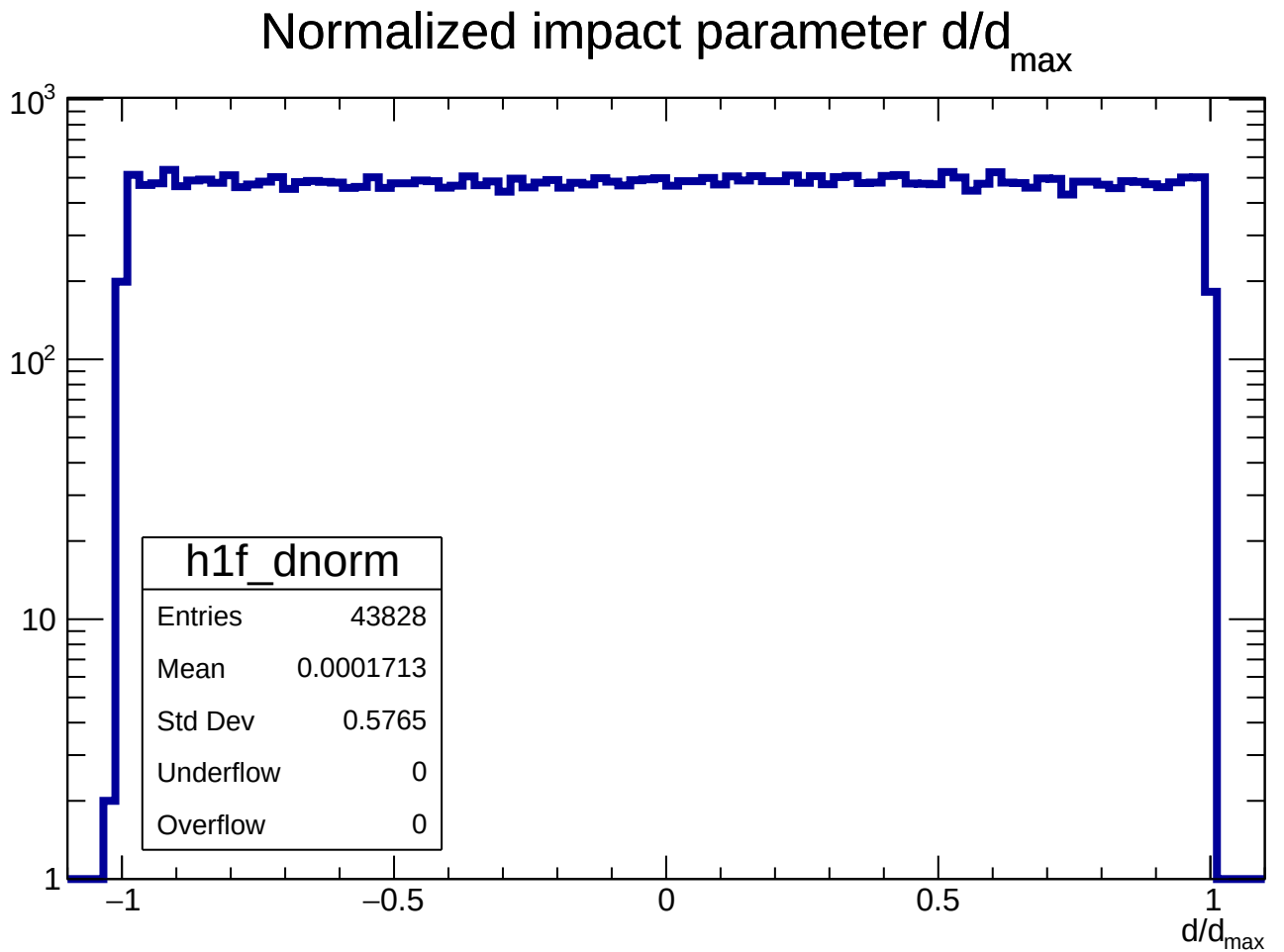

T_{max} of crossed pads
h1f_Tcross
Entries 43158
Mean 82.71
Std Dev 2.879
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

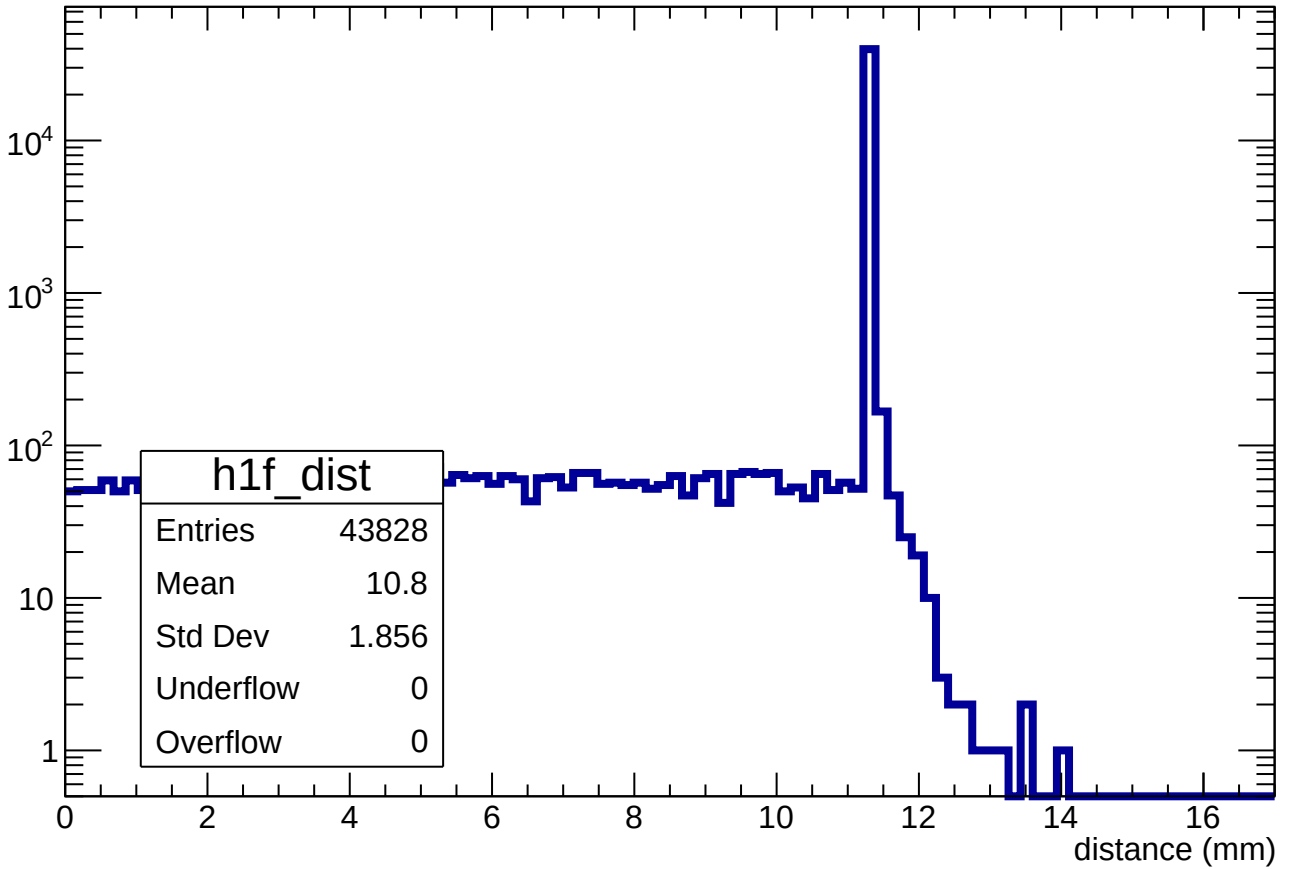

Number of crossed pads
h1f_Ncross
Entries 1233
Mean 35
Std Dev 0.852
Underflow 0
Overflow 0
Count
0
100
200
300
400
500
600
15
20
25
30
35
40
45
50
55
60
# of crossed pads

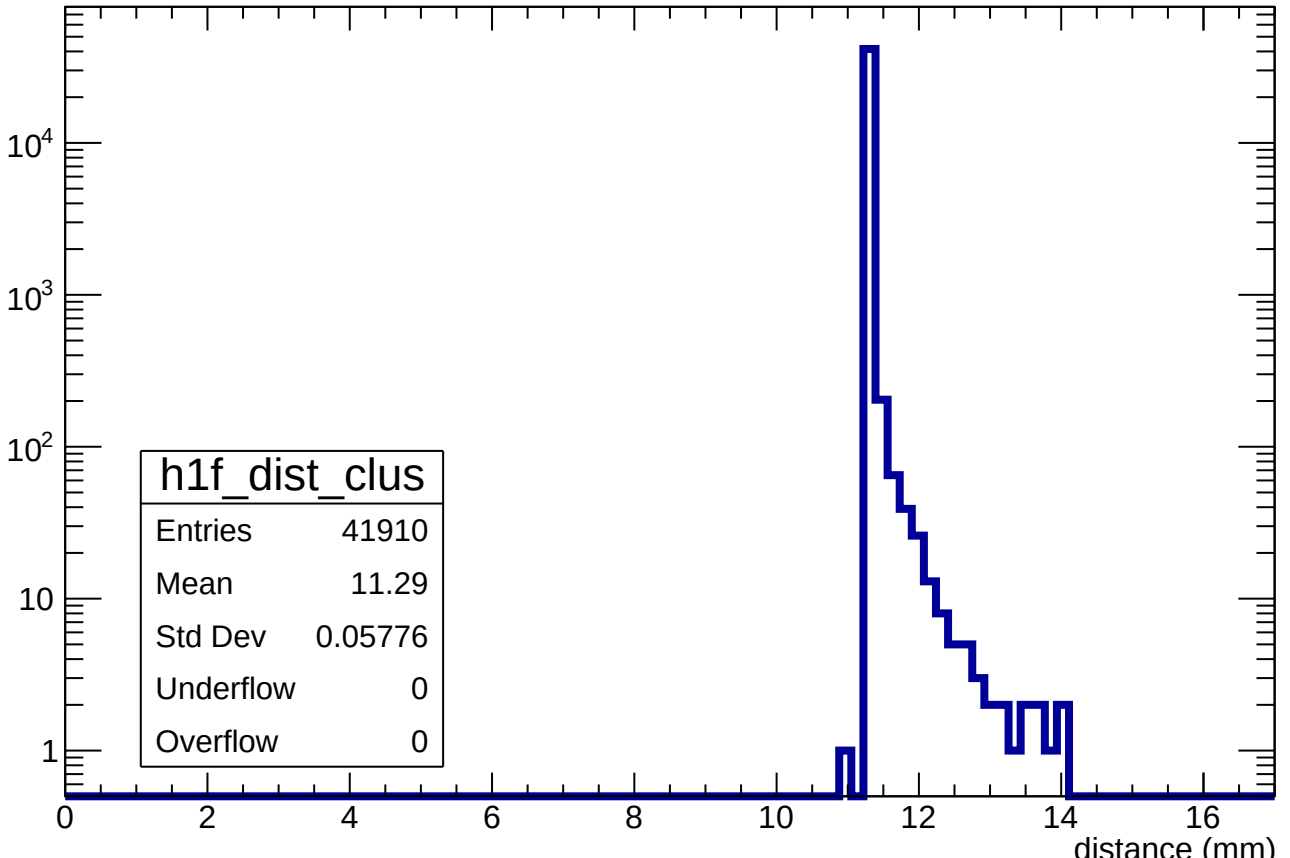

$z_{file = 150mm} - z_{computed}$
h1f_zdiff
Entries 43158
Mean 41.69
Std Dev 8.983
Underflow 0
Overflow 0
Count
12000
10000
8000
6000
4000
2000
0
–150
–100
–50
0
50
100
150
difference (mm)

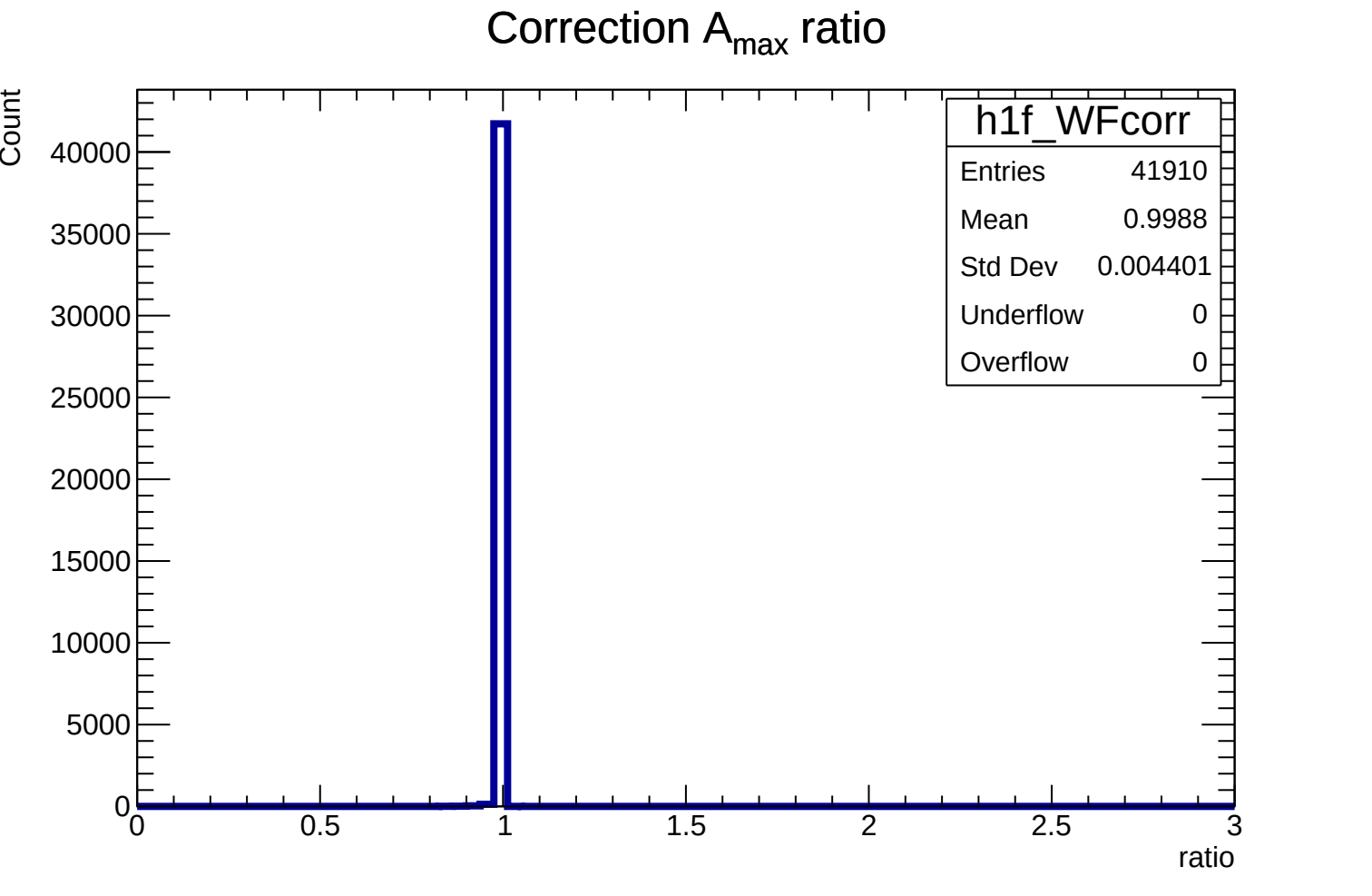

Angle φ in each pad
Count
30000
25000
20000
15000
10000
5000
0
–50
–40
–30
–20
–10
0
10
φ (°)
h1f_angle
Entries 43158
Mean –2.013
Std Dev 1.344
Underflow 0
Overflow 303

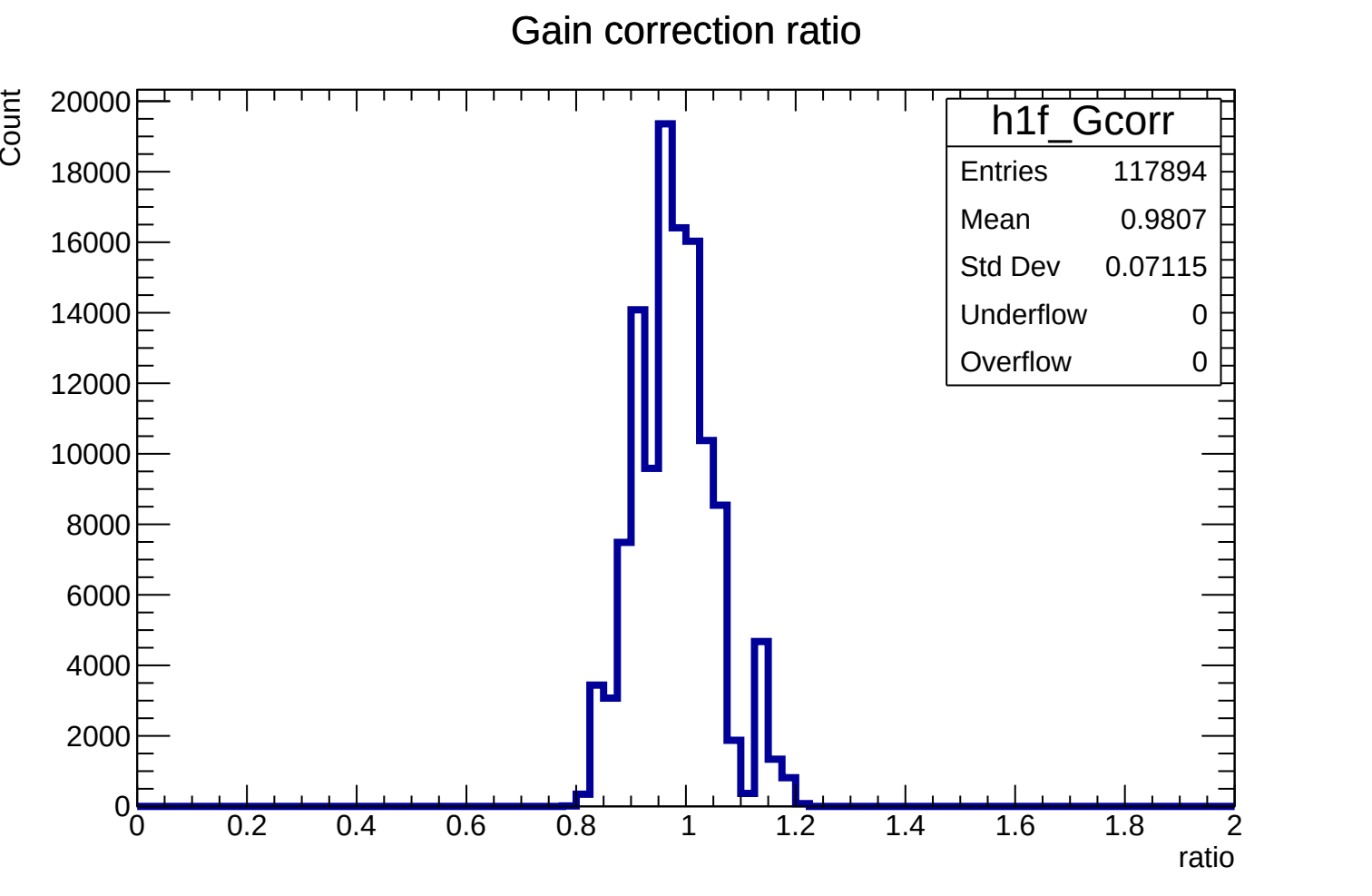

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 43828
Mean 0.9562
Std Dev 0.1645
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
0
0.2
0.4
0.6
0.8
1
1.2
L_◠/L_φ

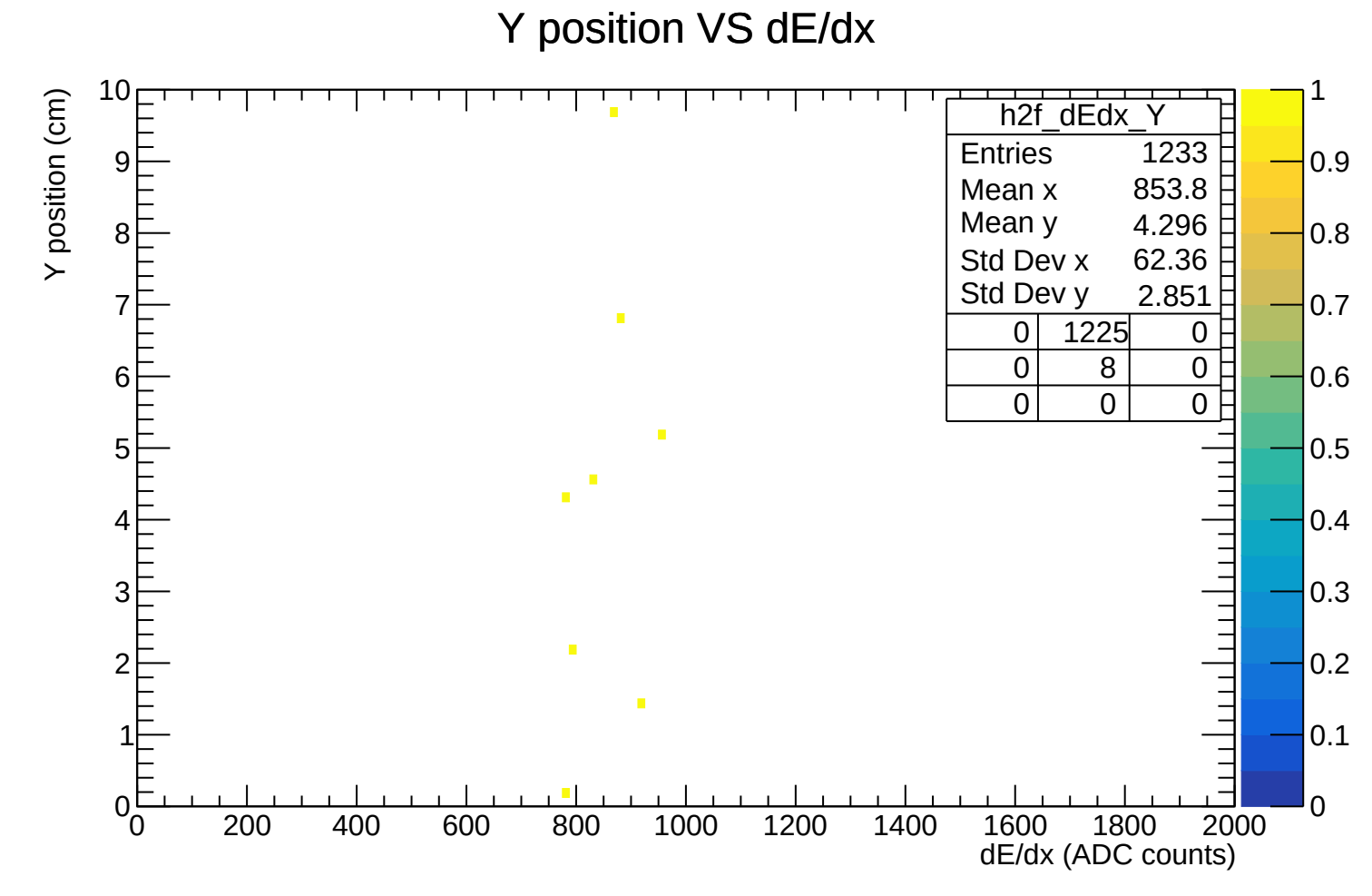

Normalized impact parameter d/d max
10^3
10^2
10
1
h1f_dnorm
Entries 43828
Mean 0.0001713
Std Dev 0.5765
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

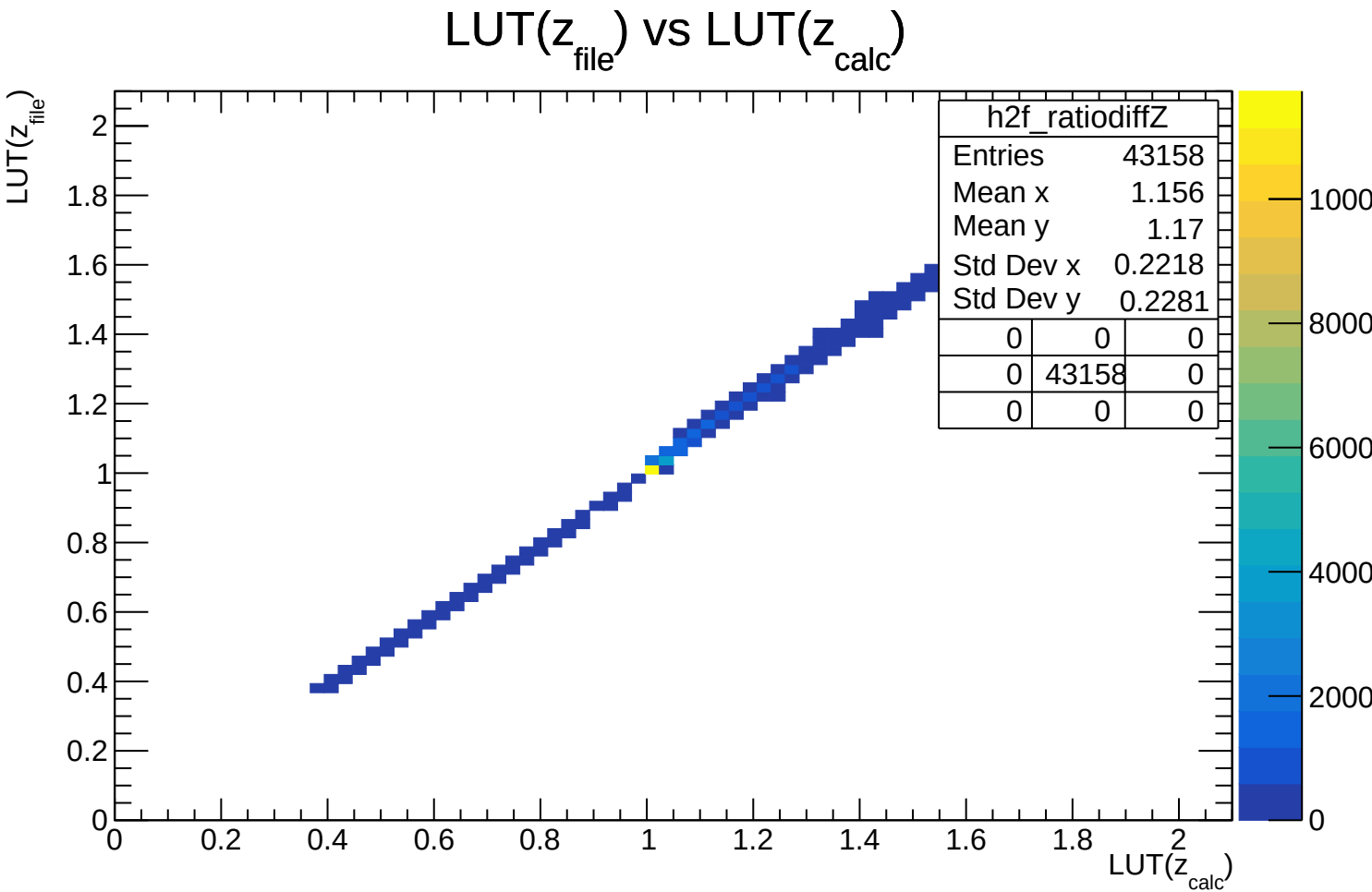

distance of track in pad
h1f_dist
Entries 43828
Mean 10.8
Std Dev 1.856
Underflow 0
Overflow 0
10^4
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
distance (mm)

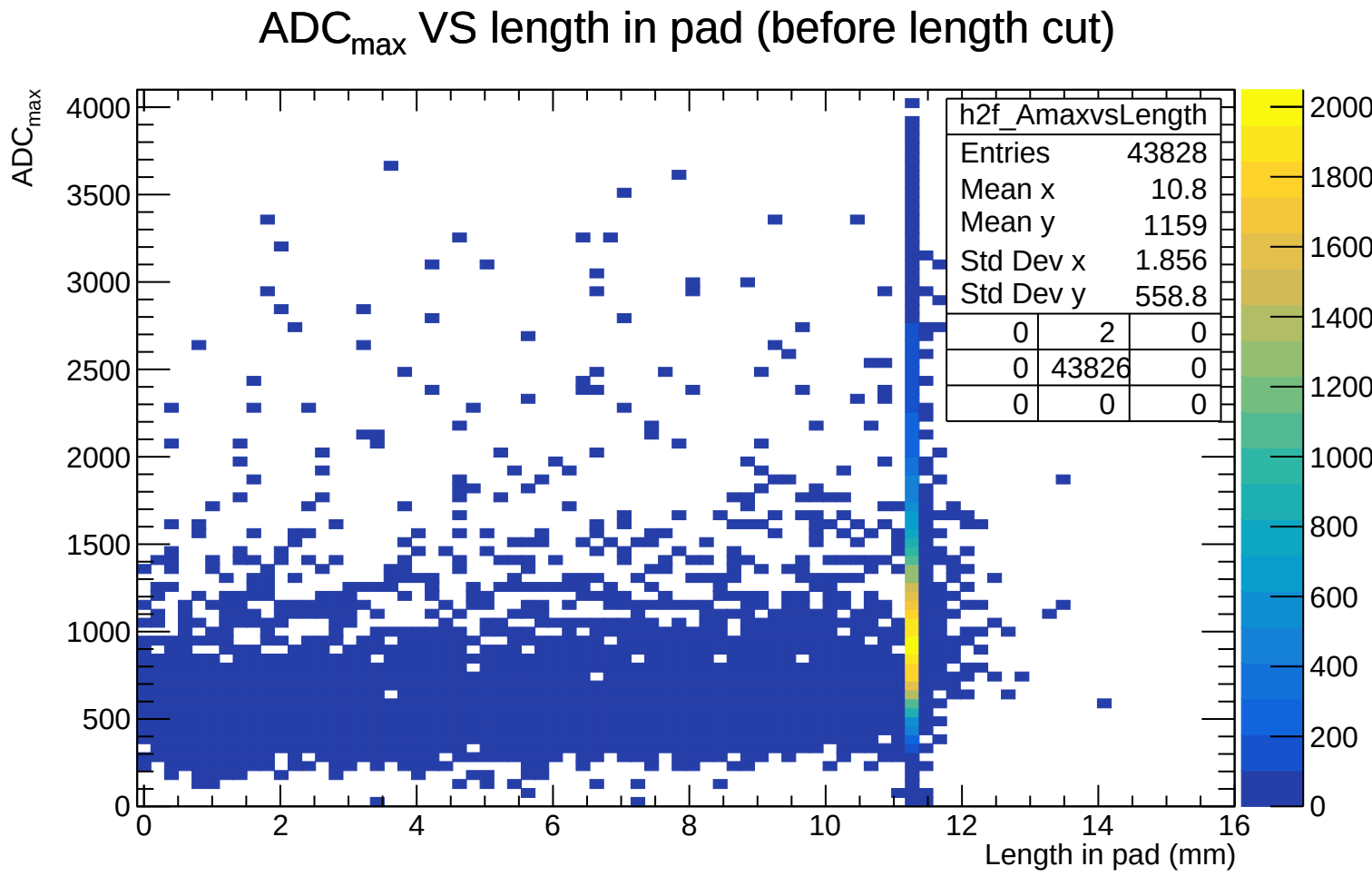

Distance of track in cluster
h1f_dist_clus
Entries 41910
Mean 11.29
Std Dev 0.05776
Underflow 0
Overflow 0
10^4
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
distance (mm)

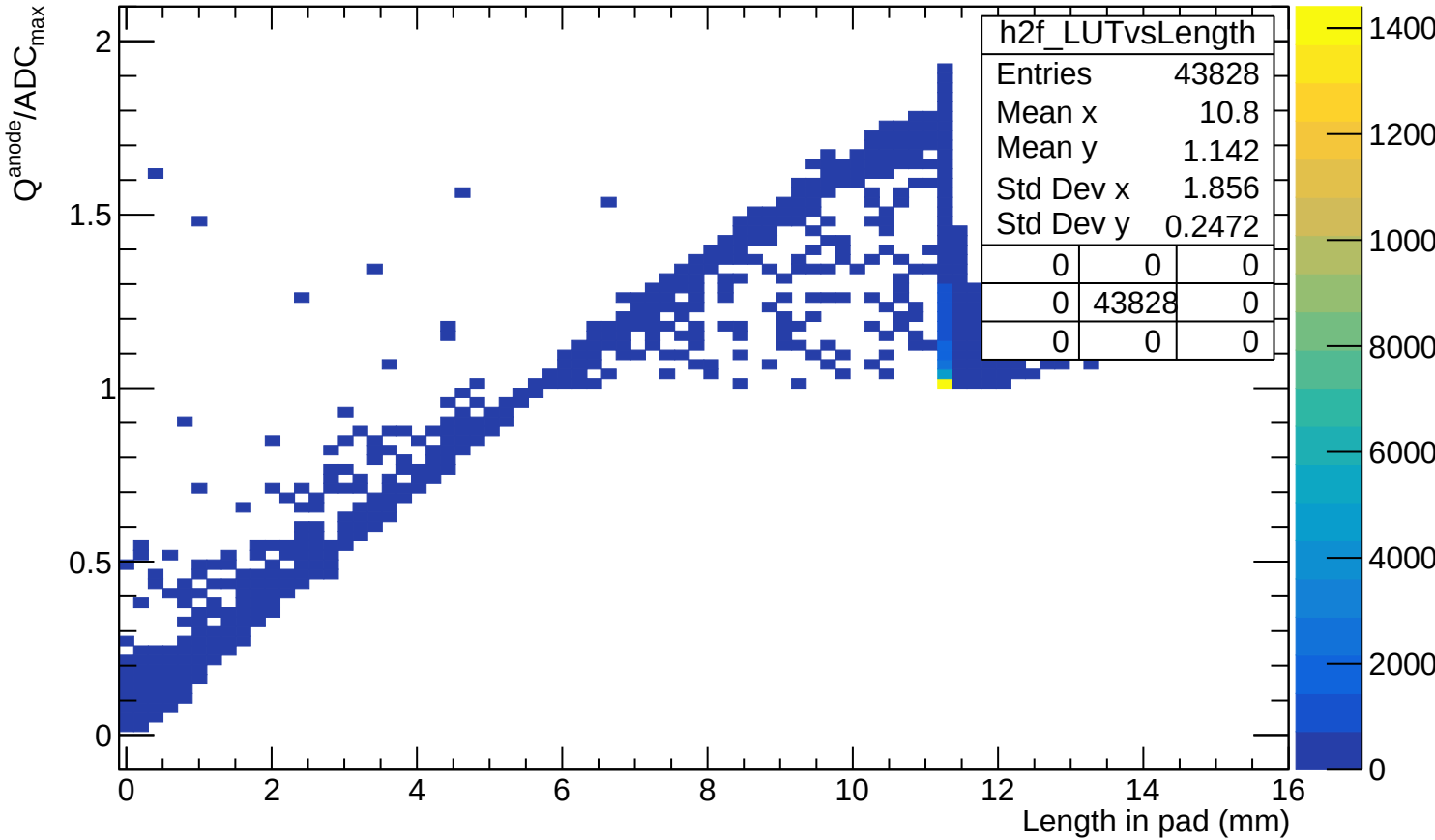

Correction A_{max} ratio
Count
ratio
h1f_WFcorr
Entries 41910
Mean 0.9988
Std Dev 0.004401
Underflow 0
Overflow 0
0
5000
10000
15000
20000
25000
30000
35000
40000
0
0.5
1
1.5
2
2.5
3

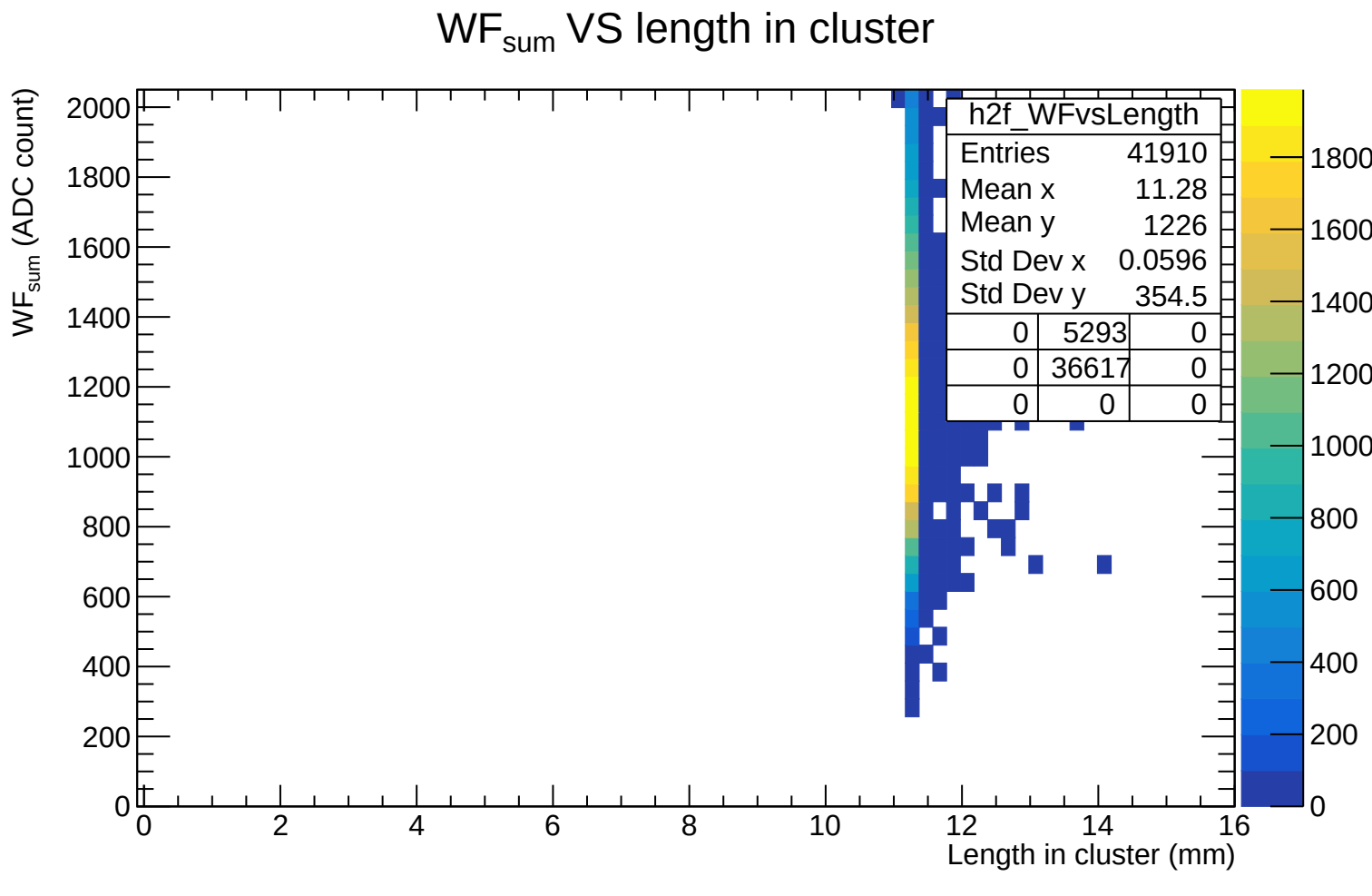

Gain correction ratio
h1f_Gcorr
Entries 117894
Mean 0.9807
Std Dev 0.07115
Underflow 0
Overflow 0
Count
ratio
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

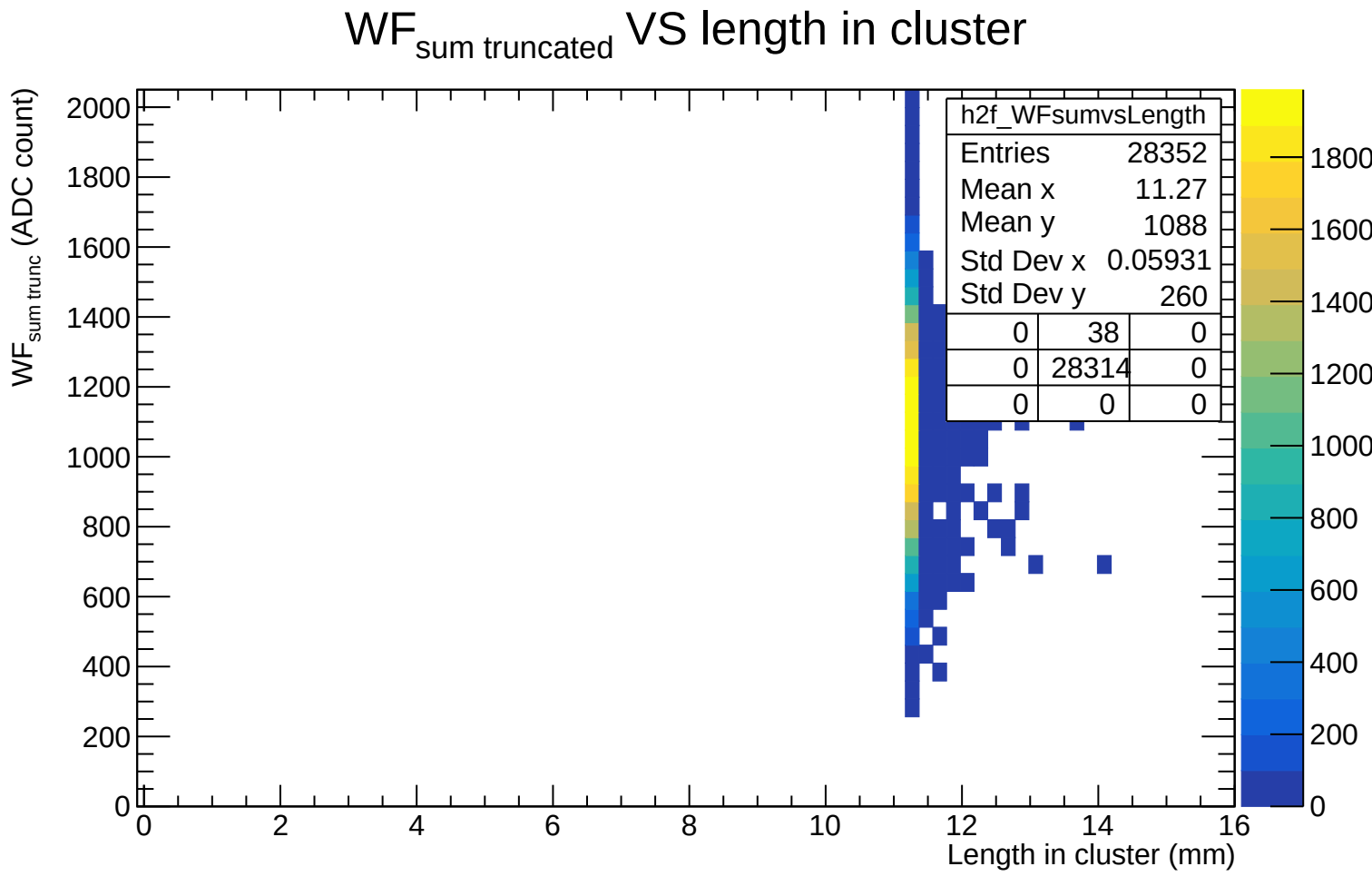

Y position VS dE/dx
h2f_dEdx_Y
Entries 1233
Mean x 853.8
Mean y 4.296
Std Dev x 62.36
Std Dev y 2.851
0 1225 0
0 8 0
0 0 0
Y position (cm)
dE/dx (ADC counts)
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 1 2 3 4 5 6 7 8 9 10
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

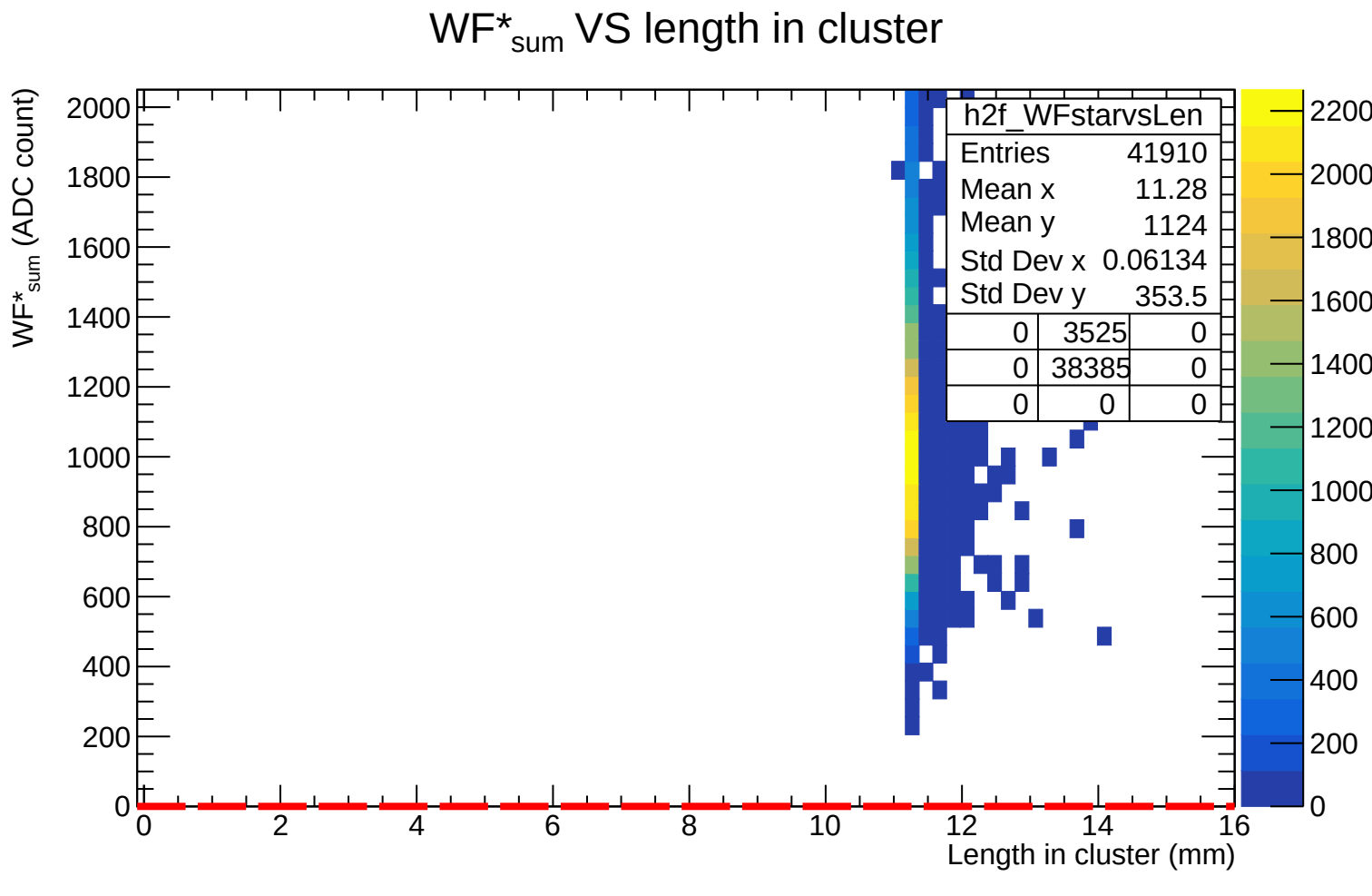

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 43158
Mean x 1.156
Mean y 1.17
Std Dev x 0.2218
Std Dev y 0.2281
0 0 0
0 43158 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 2000 4000 6000 8000 1000

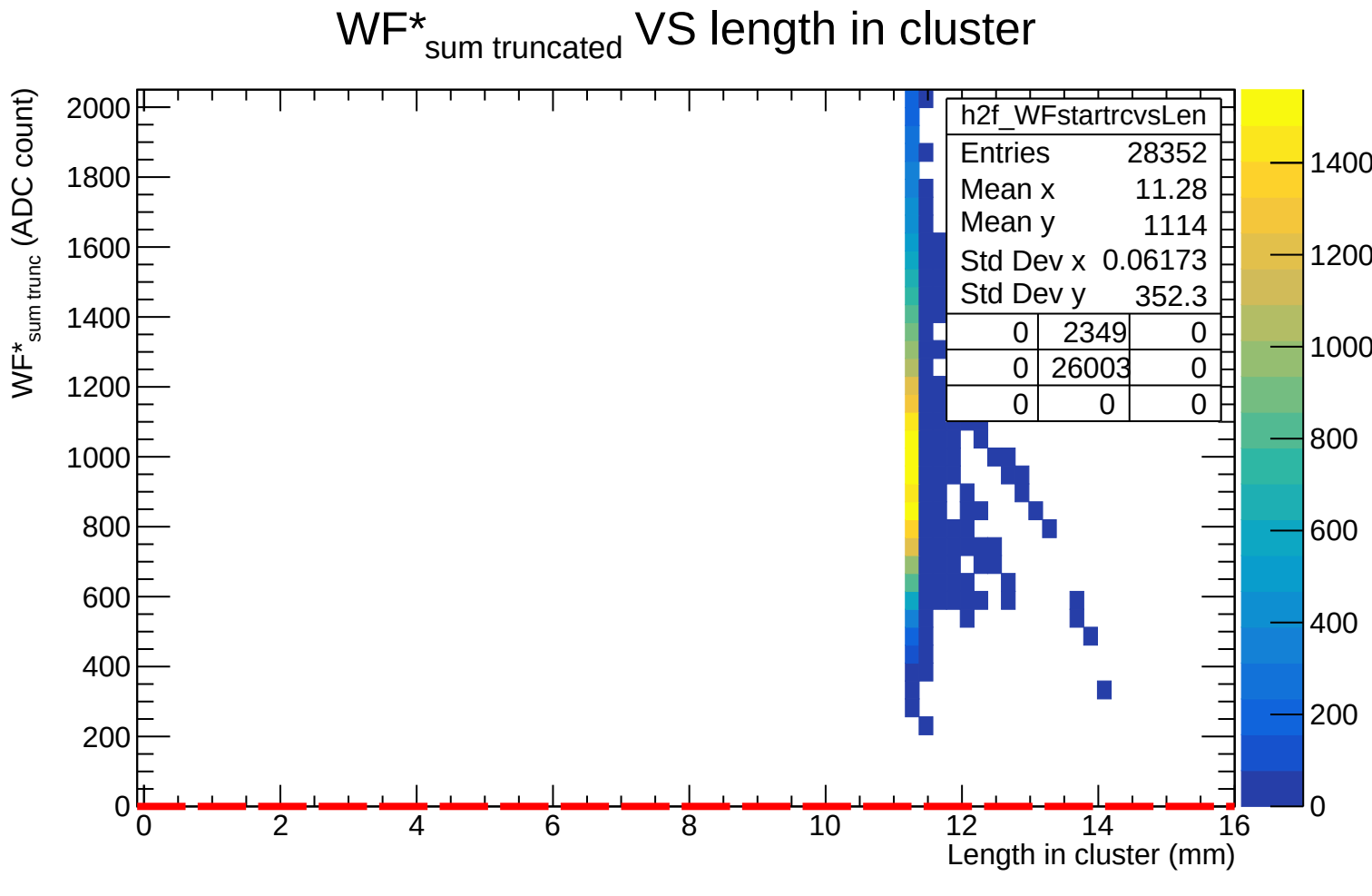

ADC_max VS length in pad (before length cut)
ADC_max
Length in pad (mm)
h2f_AmaxvsLength
Entries 43828
Mean x 10.8
Mean y 1159
Std Dev x 1.856
Std Dev y 558.8
0 2 0
0 43826 0
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800 2000

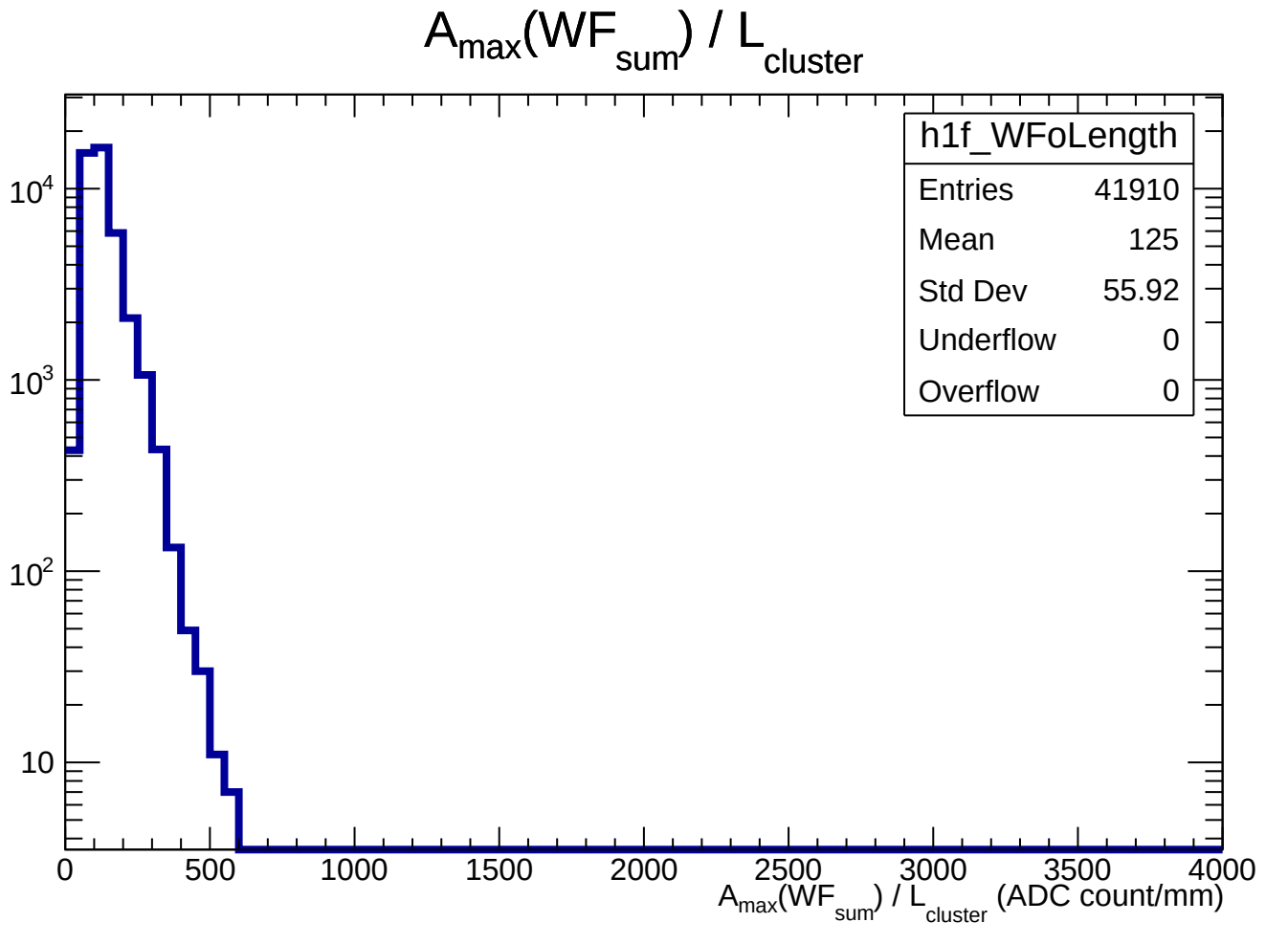

Q^anode/ADC_max VS length in pad (before length cut)
Q^anode/ADC_max
Length in pad (mm)
h2f_LUTvsLength
Entries 43828
Mean x 10.8
Mean y 1.142
Std Dev x 1.856
Std Dev y 0.2472
0 0 0
0 43828 0
0 0 0
0 0.5 1 1.5 2
0 2 4 6 8 10 12 14 16
0 2000 4000 6000 8000 1000 1200 1400

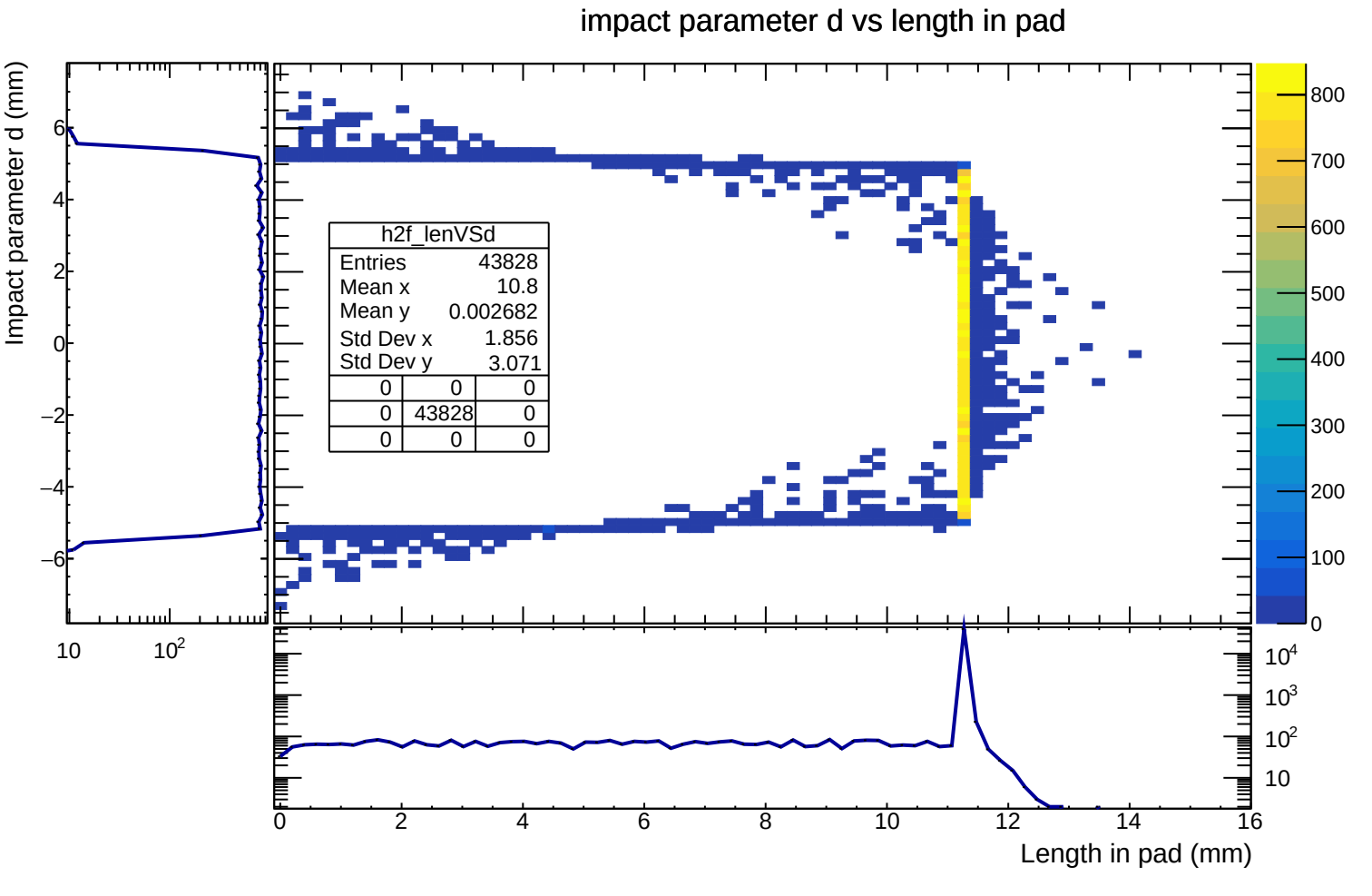

WF_sum VS length in cluster
WF_sum (ADC count)
Length in cluster (mm)
h2f_WFvsLength
Entries 41910
Mean x 11.28
Mean y 1226
Std Dev x 0.0596
Std Dev y 354.5
0 5293 0
0 36617 0
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800


WF sum truncated VS length in cluster
WF sum trunc (ADC count)
Length in cluster (mm)
h2f_WFsumvsLength
Entries 28352
Mean x 11.27
Mean y 1088
Std Dev x 0.05931
Std Dev y 260
0 38 0
0 28314 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 1200 1400 1600 1800


WF*sum VS length in cluster
WF*sum (ADC count)
Length in cluster (mm)
h2f_WFstarvsLen
Entries 41910
Mean x 11.28
Mean y 1124
Std Dev x 0.06134
Std Dev y 353.5
0 3525 0
0 38385 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 1200 1400 1600 1800 2000 2200


WF*sum truncated VS length in cluster
WF*sum trunc (ADC count)
Length in cluster (mm)
h2f_WFstartrcvsLen
Entries 28352
Mean x 11.28
Mean y 1114
Std Dev x 0.06173
Std Dev y 352.3
0 2349 0
0 26003 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 1200 1400


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 41910
Mean 125
Std Dev 55.92
Underflow 0
Overflow 0
10^4
10^3
10^2
10
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 43828
Mean x 10.8
Mean y 0.002682
Std Dev x 1.856
Std Dev y 3.071
0 0 0
0 43828 0
0 0 0
Length in pad (mm)