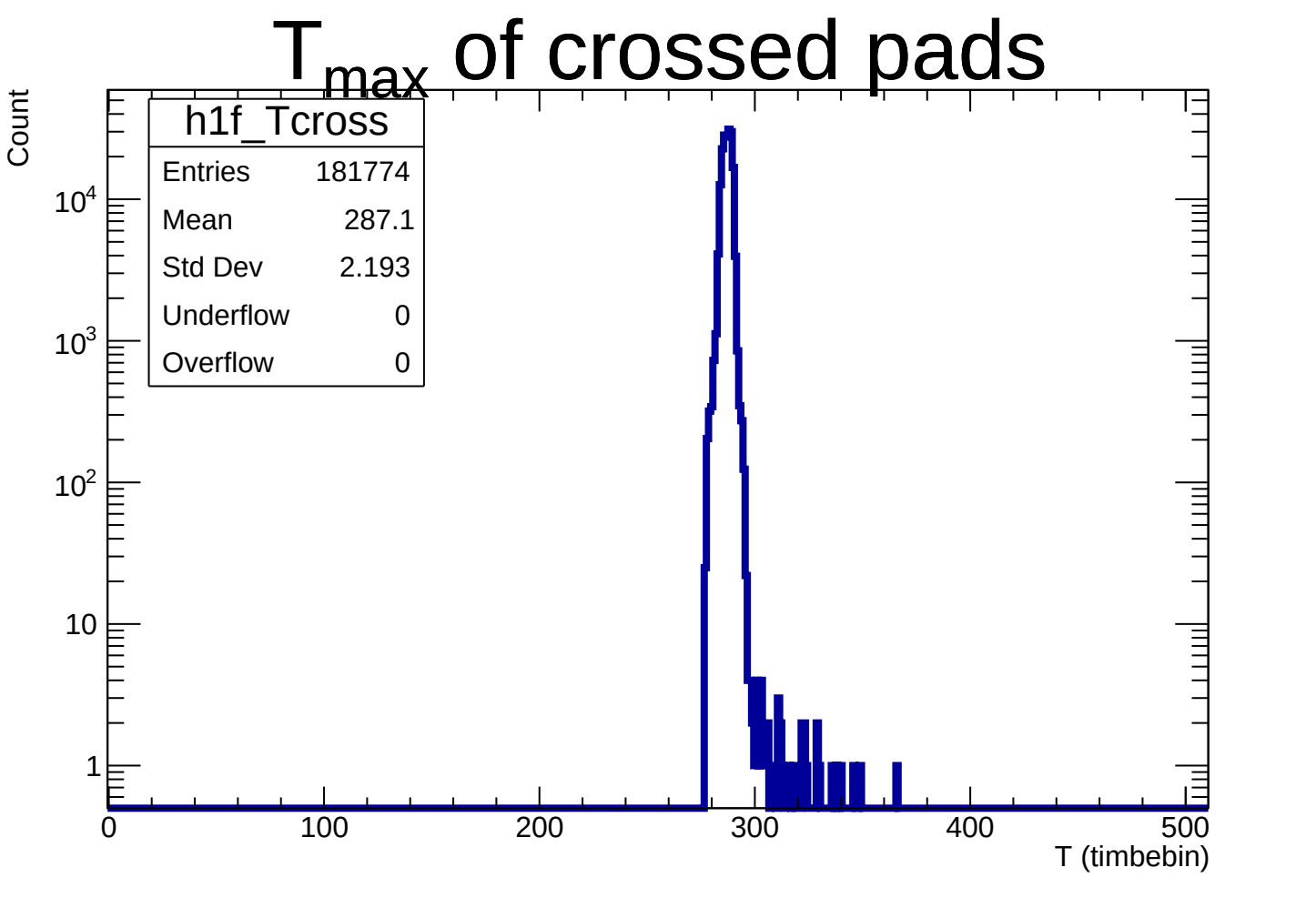
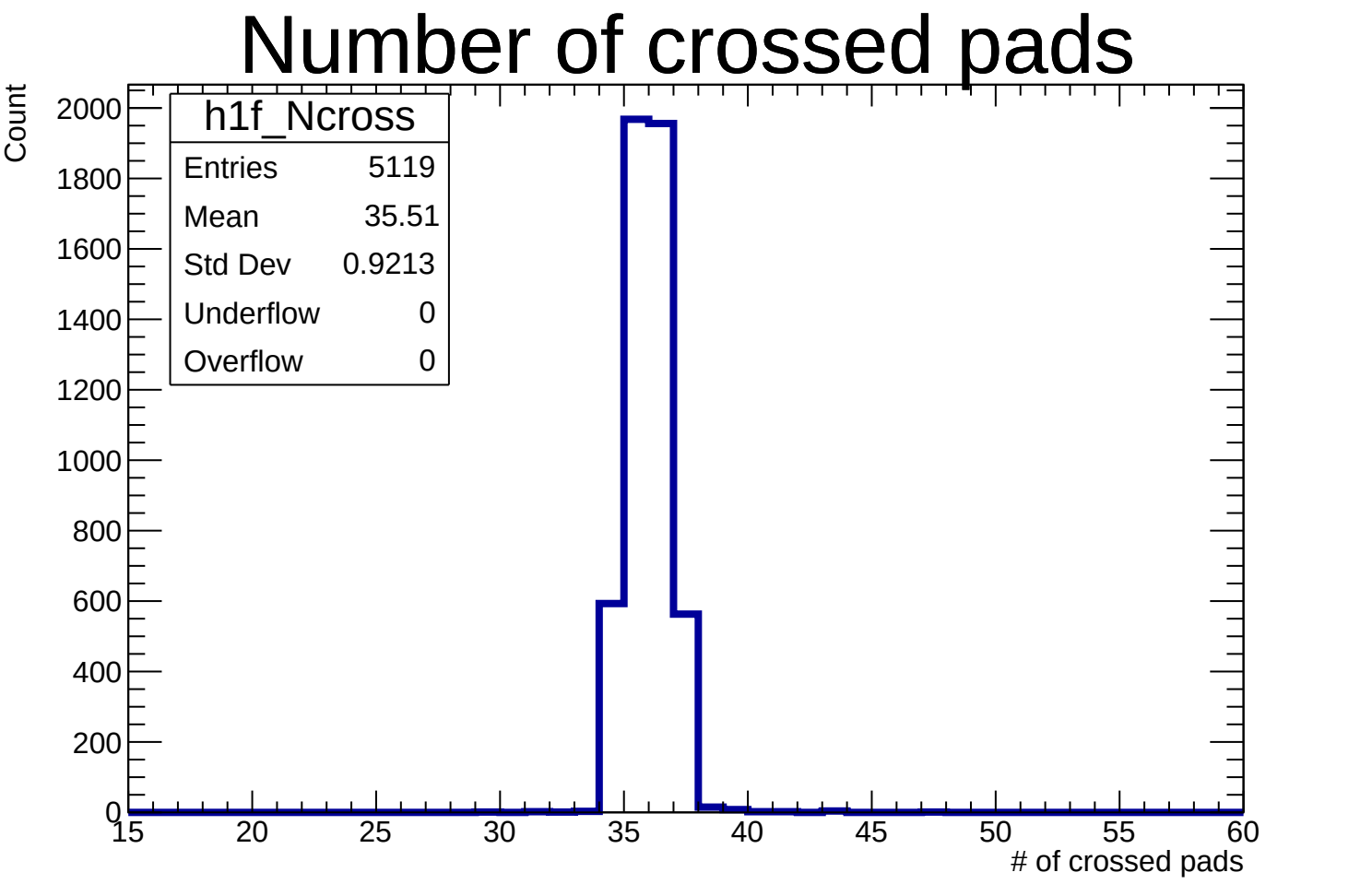
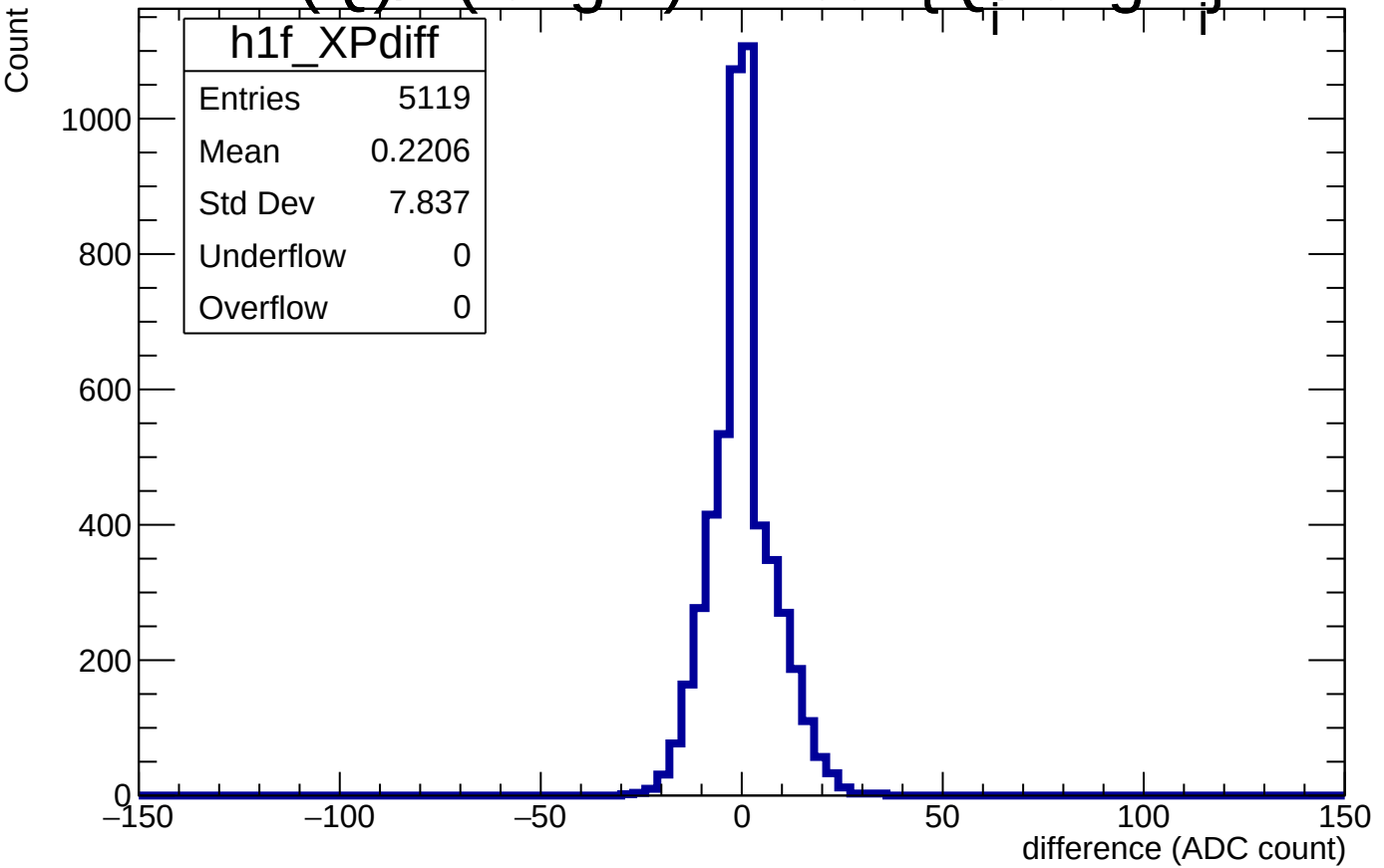
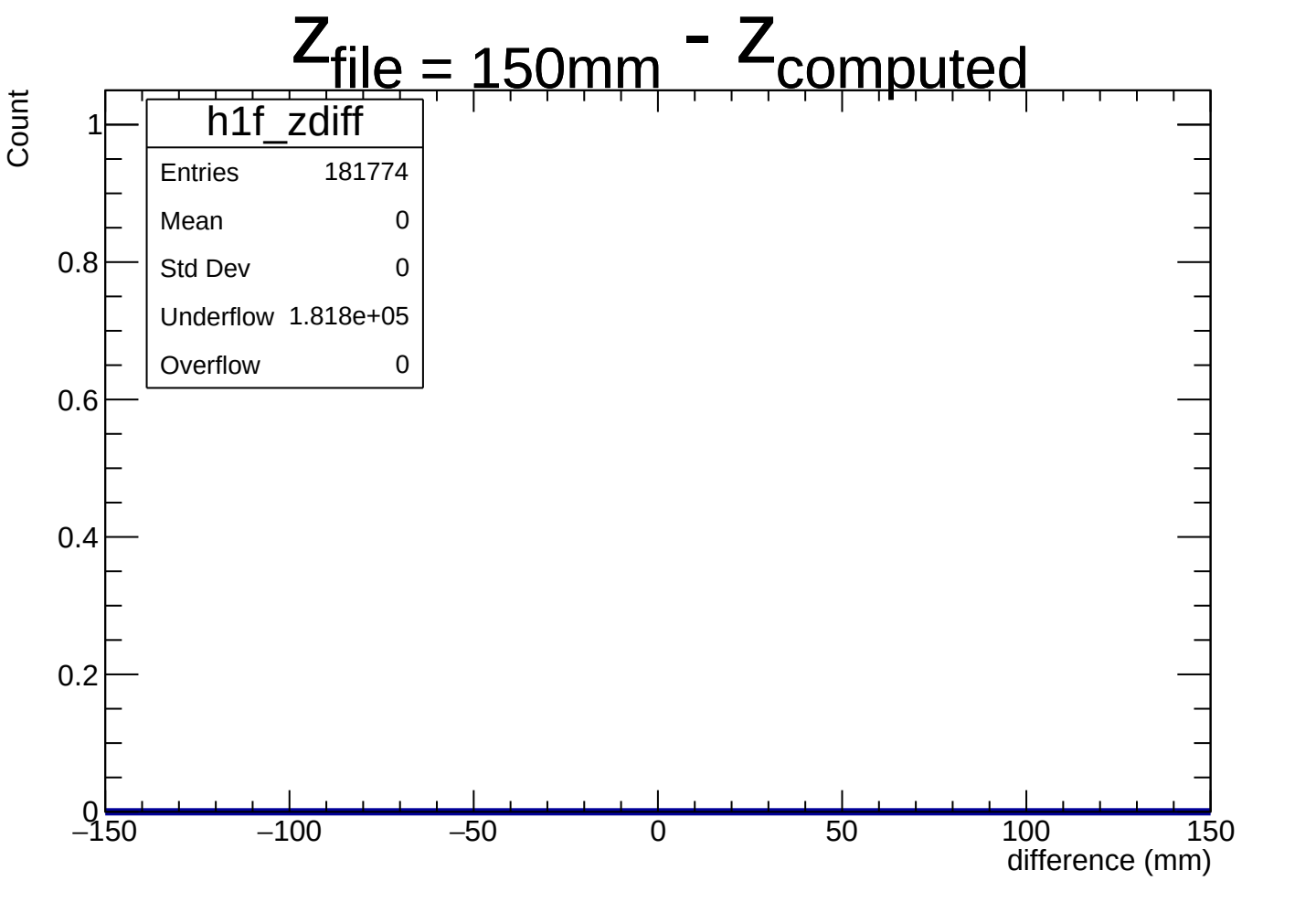
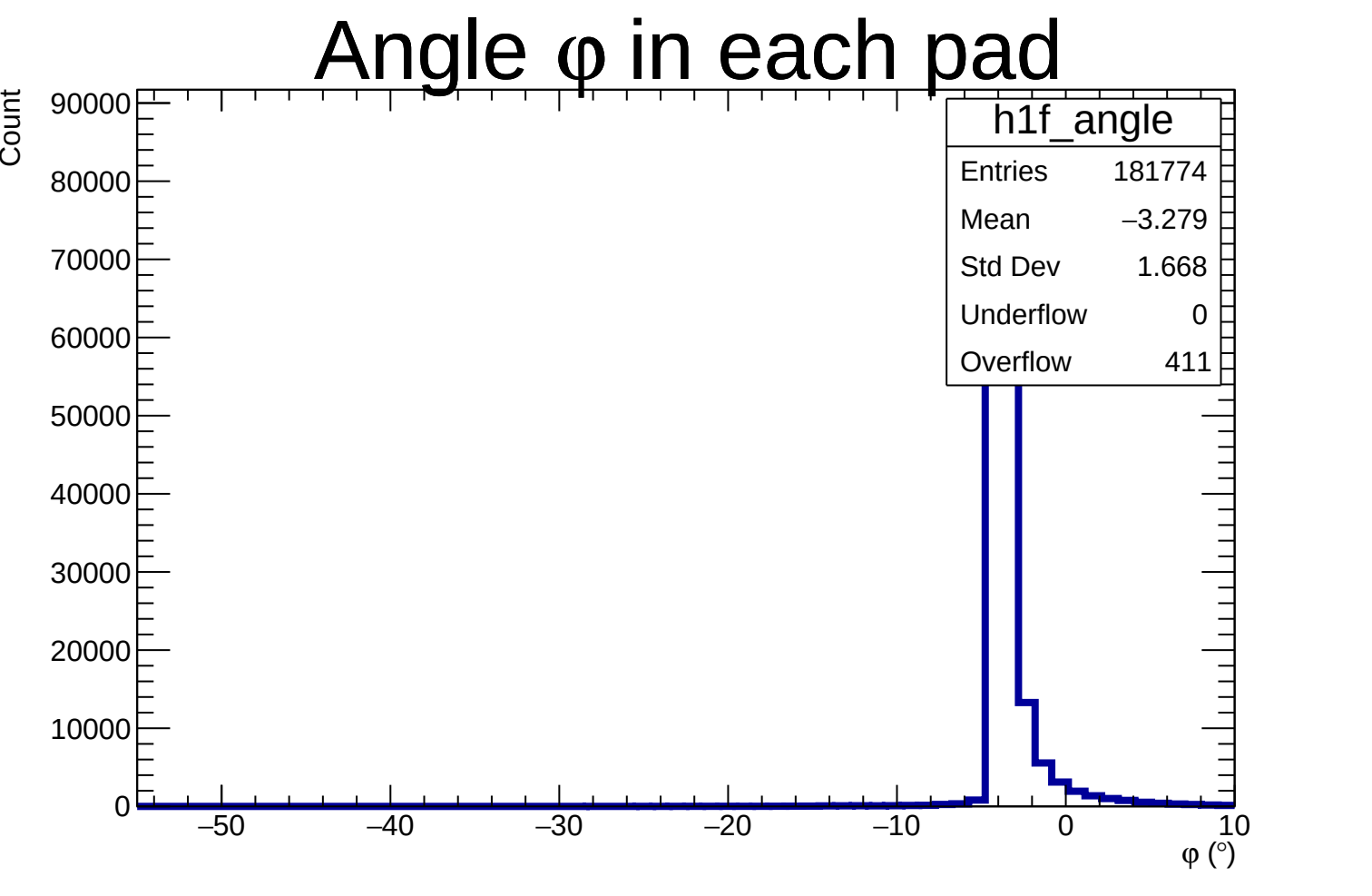
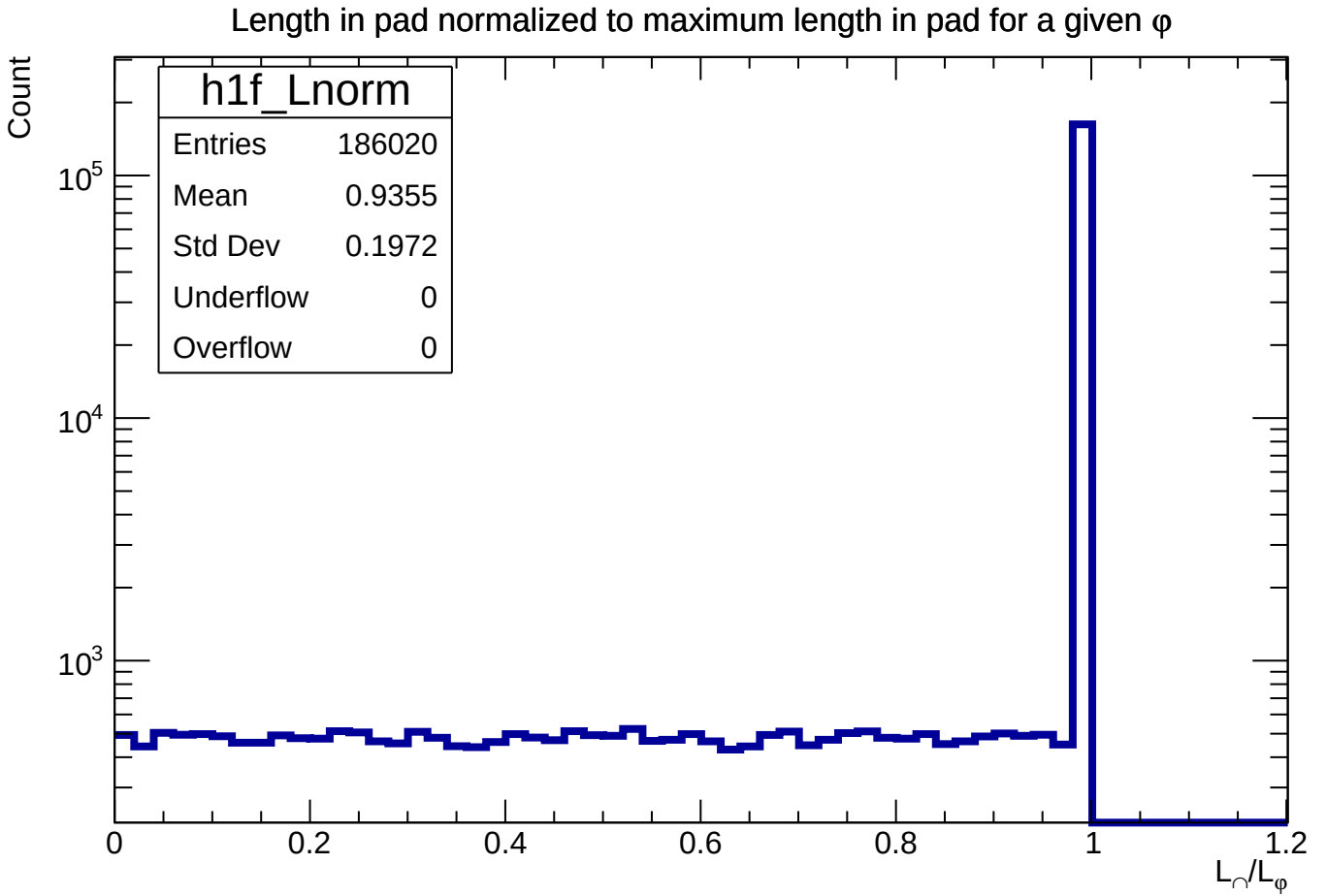

T_{max} of crossed pads
h1f_Tcross
Entries 181774
Mean 287.1
Std Dev 2.193
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

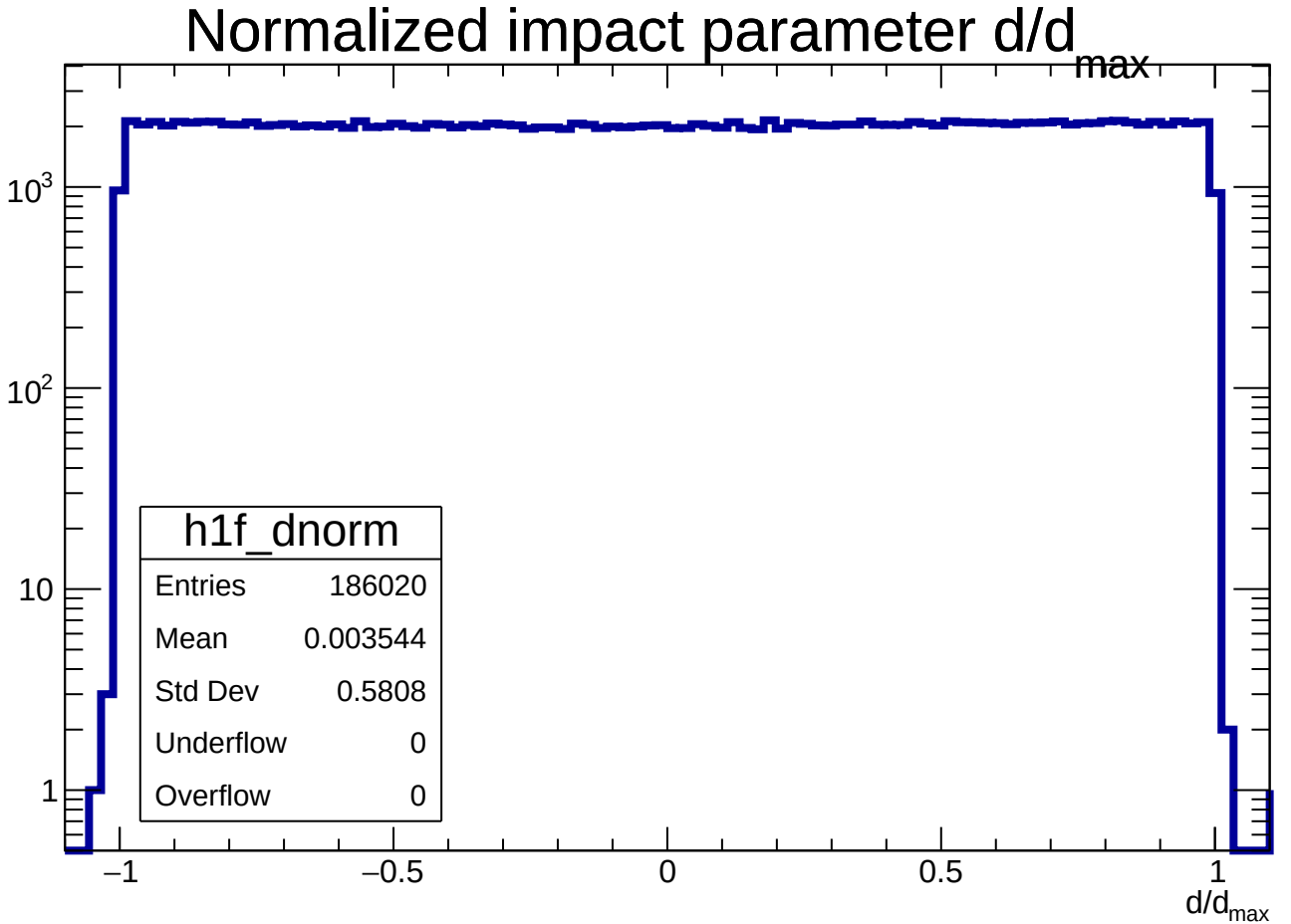

Number of crossed pads
h1f_Ncross
Entries 5119
Mean 35.51
Std Dev 0.9213
Underflow 0
Overflow 0
Count
2000
1800
1600
1400
1200
1000
800
600
400
200
0
15
20
25
30
35
40
45
50
55
60
# of crossed pads


Σ(Q)/Σ(length) - mean{Q/length}
h1f_XPdiff
Entries 5119
Mean 0.2206
Std Dev 7.837
Underflow 0
Overflow 0
Count
1000
800
600
400
200
0
–150
–100
–50
0
50
100
150
difference (ADC count)

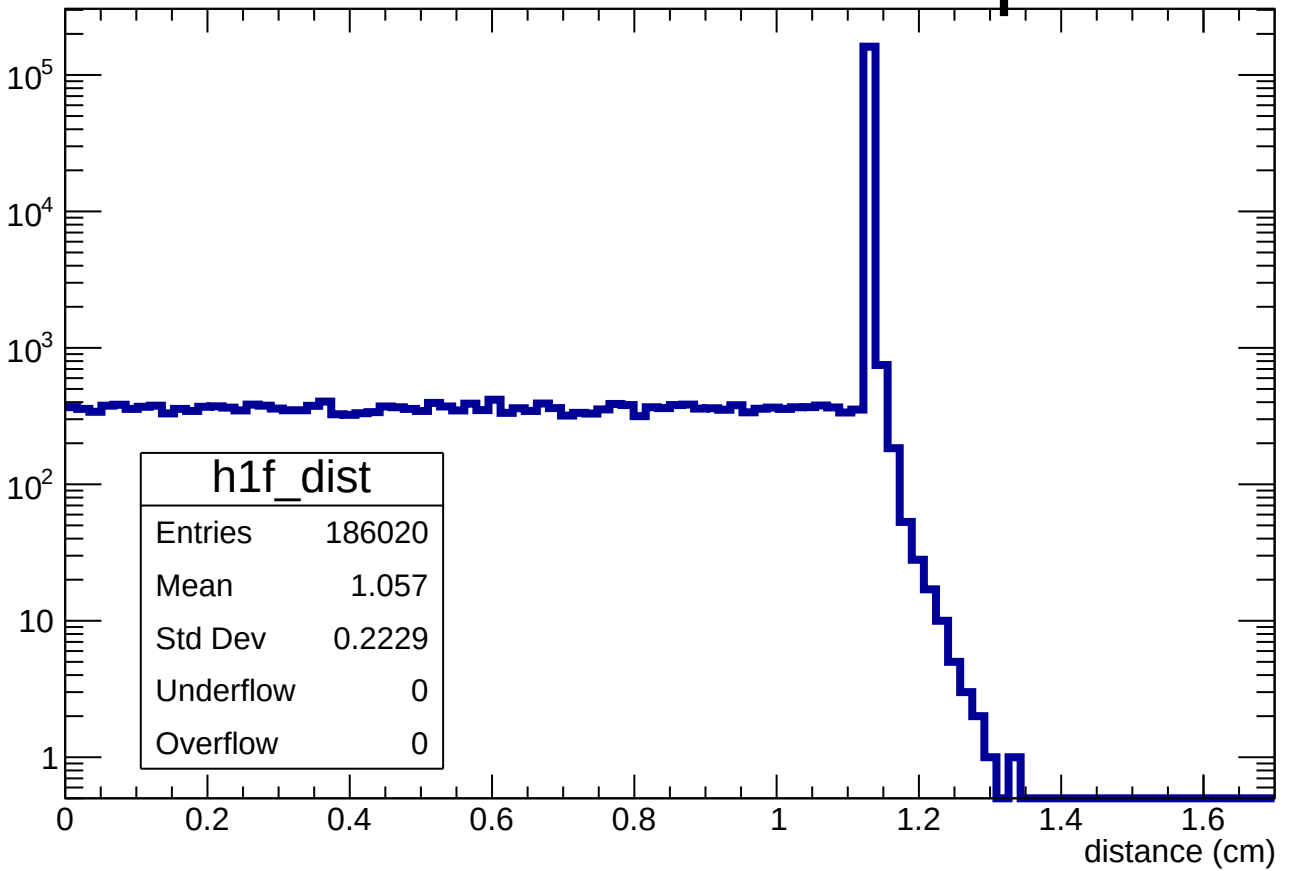

$Z_{file = 150mm} - Z_{computed}$
h1f_zdiff
Entries 181774
Mean 0
Std Dev 0
Underflow 1.818e+05
Overflow 0
Count
1
0.8
0.6
0.4
0.2
0
–150
–100
–50
0
50
100
150
difference (mm)

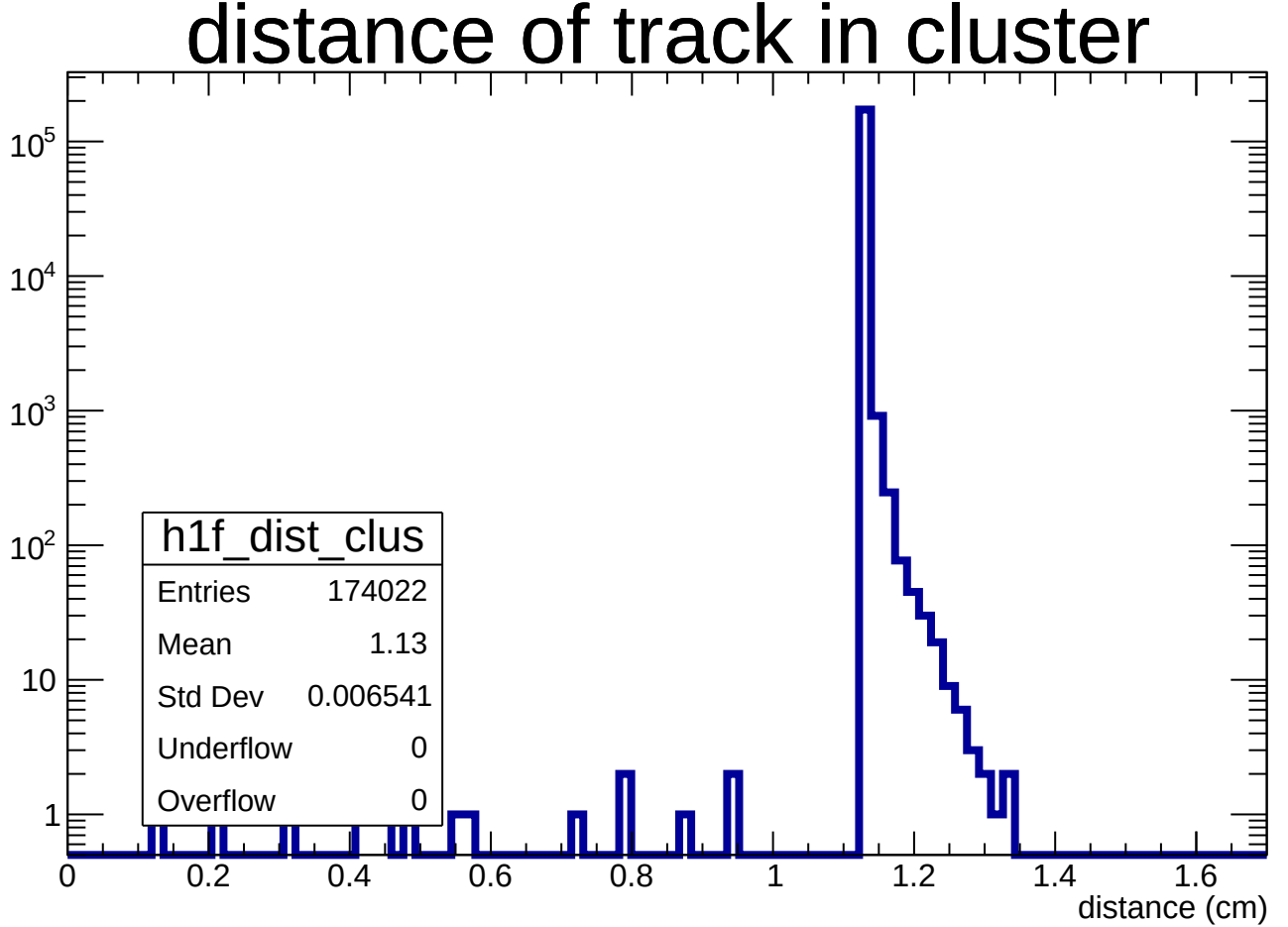

Angle φ in each pad
Count
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
h1f_angle
Entries 181774
Mean −3.279
Std Dev 1.668
Underflow 0
Overflow 411
−50
−40
−30
−20
−10
0
10
φ (°)

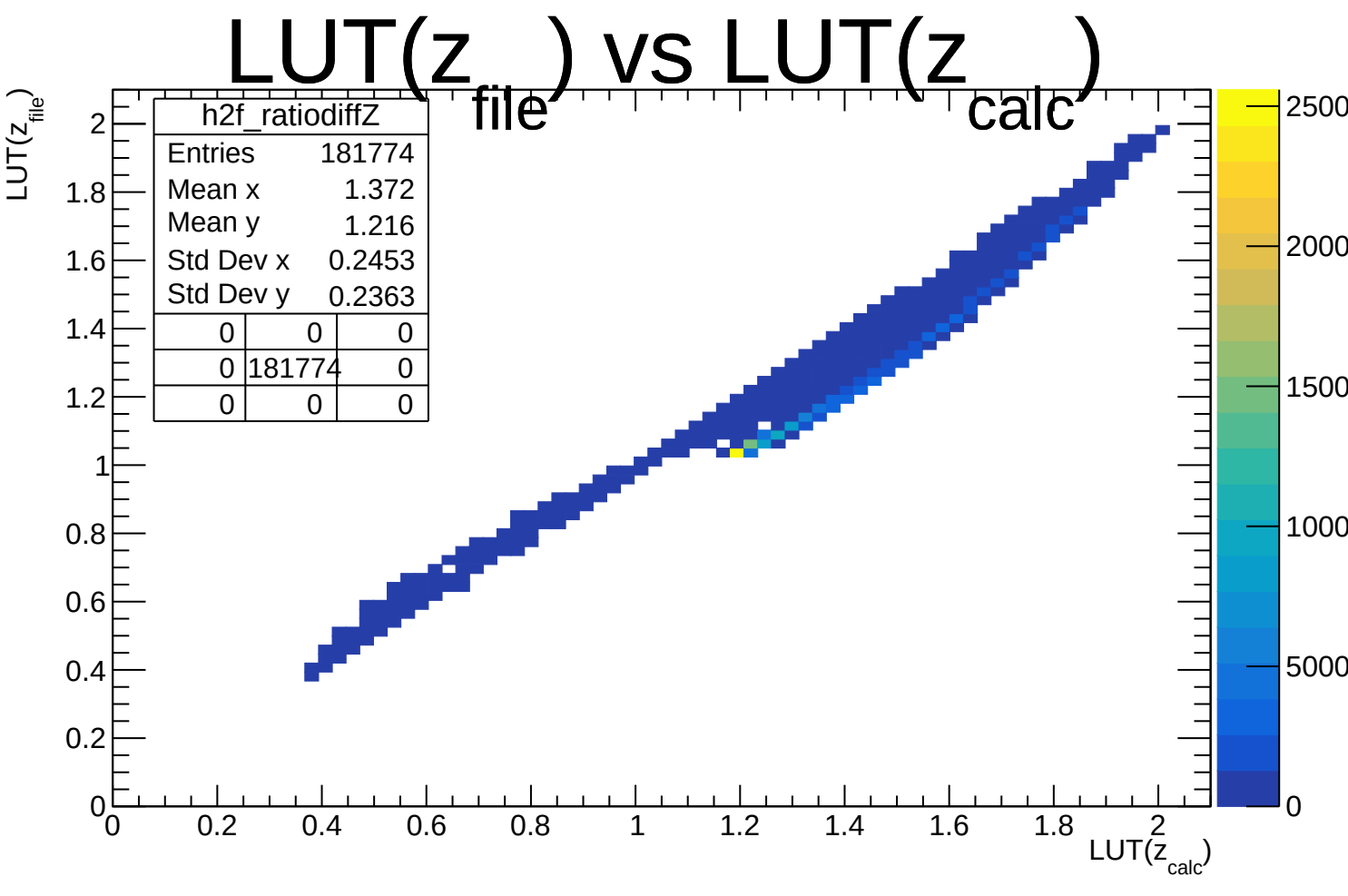

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 186020
Mean 0.9355
Std Dev 0.1972
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
L_○/L_φ

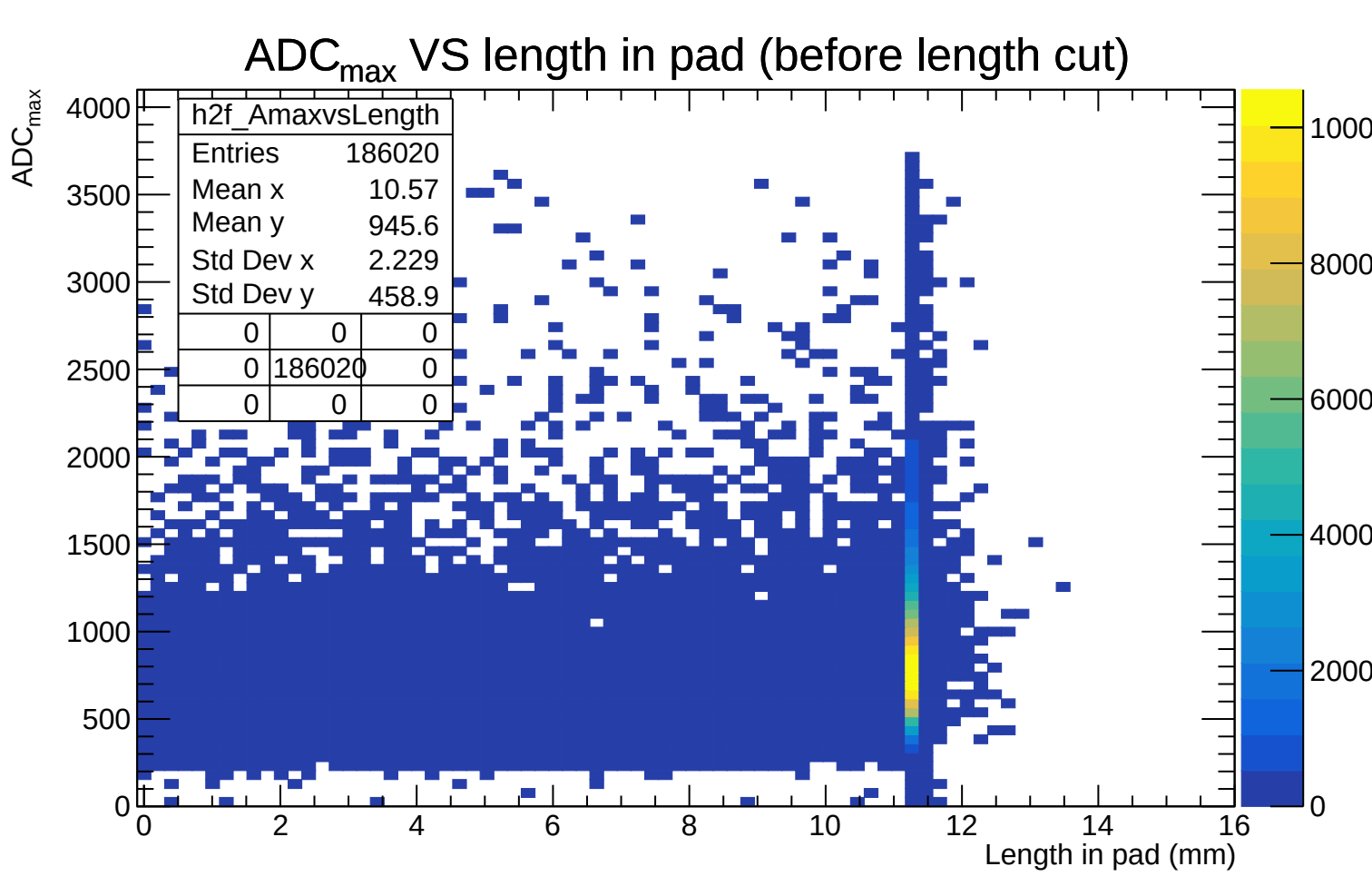

Normalized impact parameter d/d max
10^3
10^2
10
1
h1f_dnorm
Entries 186020
Mean 0.003544
Std Dev 0.5808
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

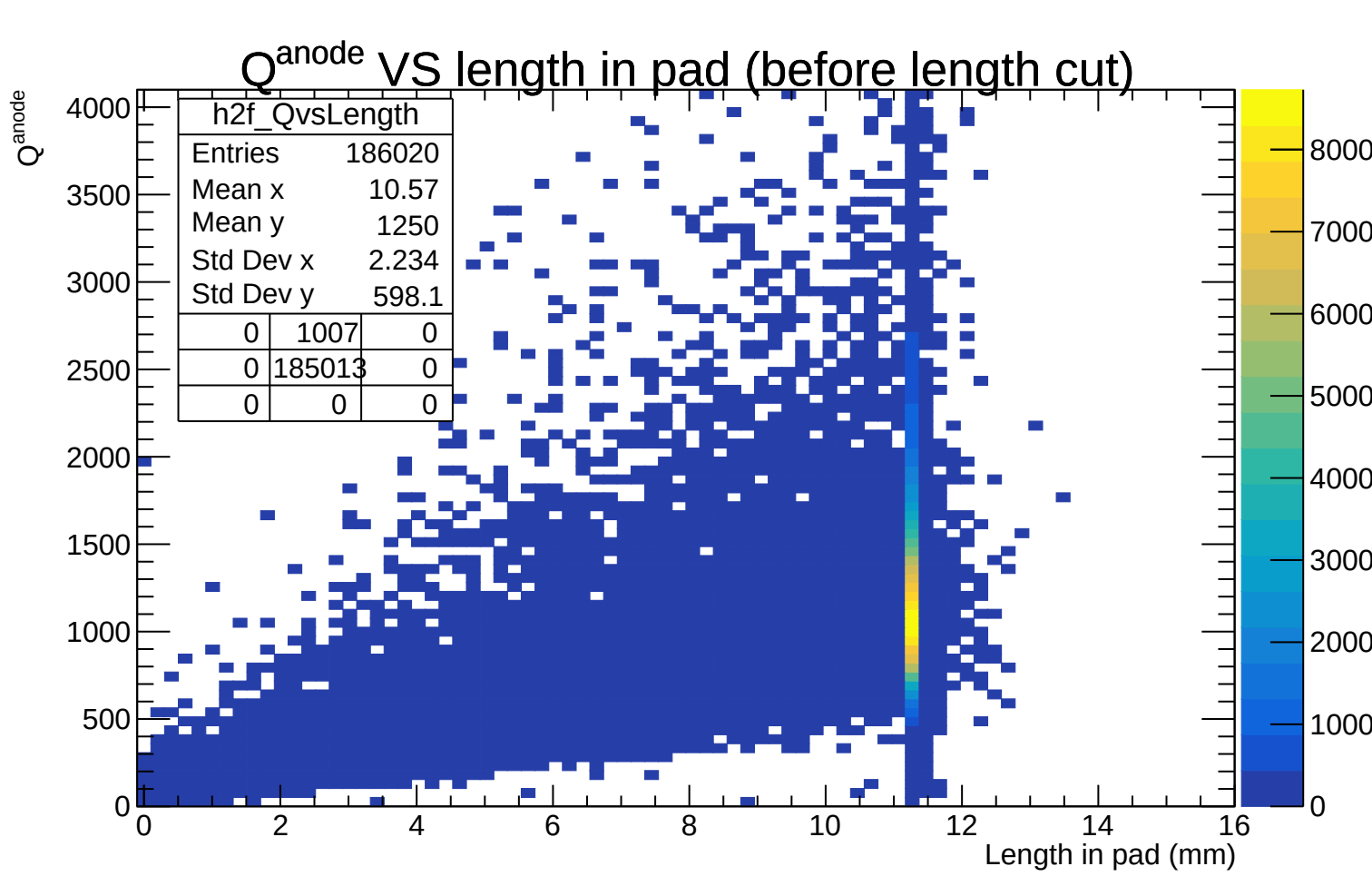
distance of track in pad

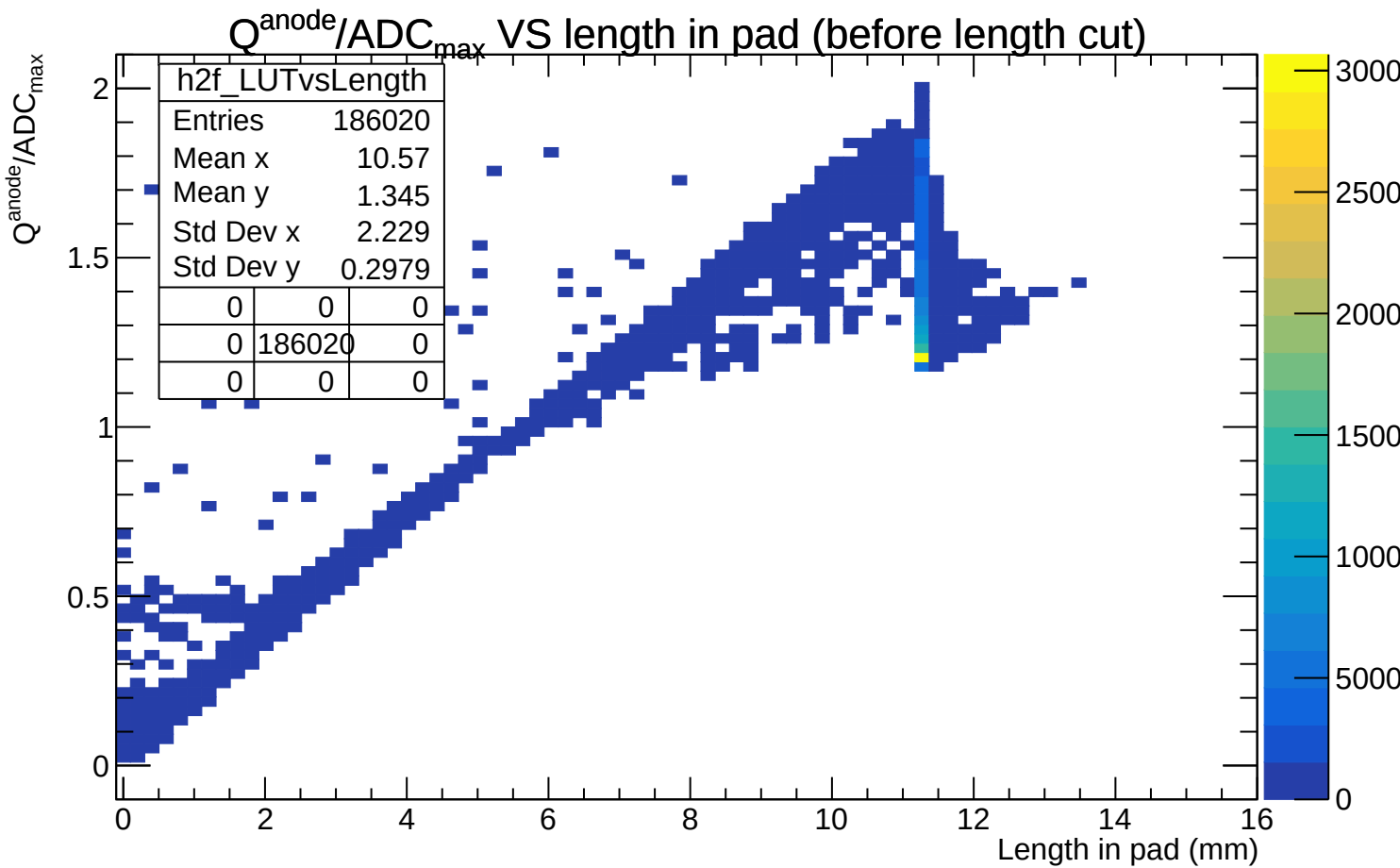


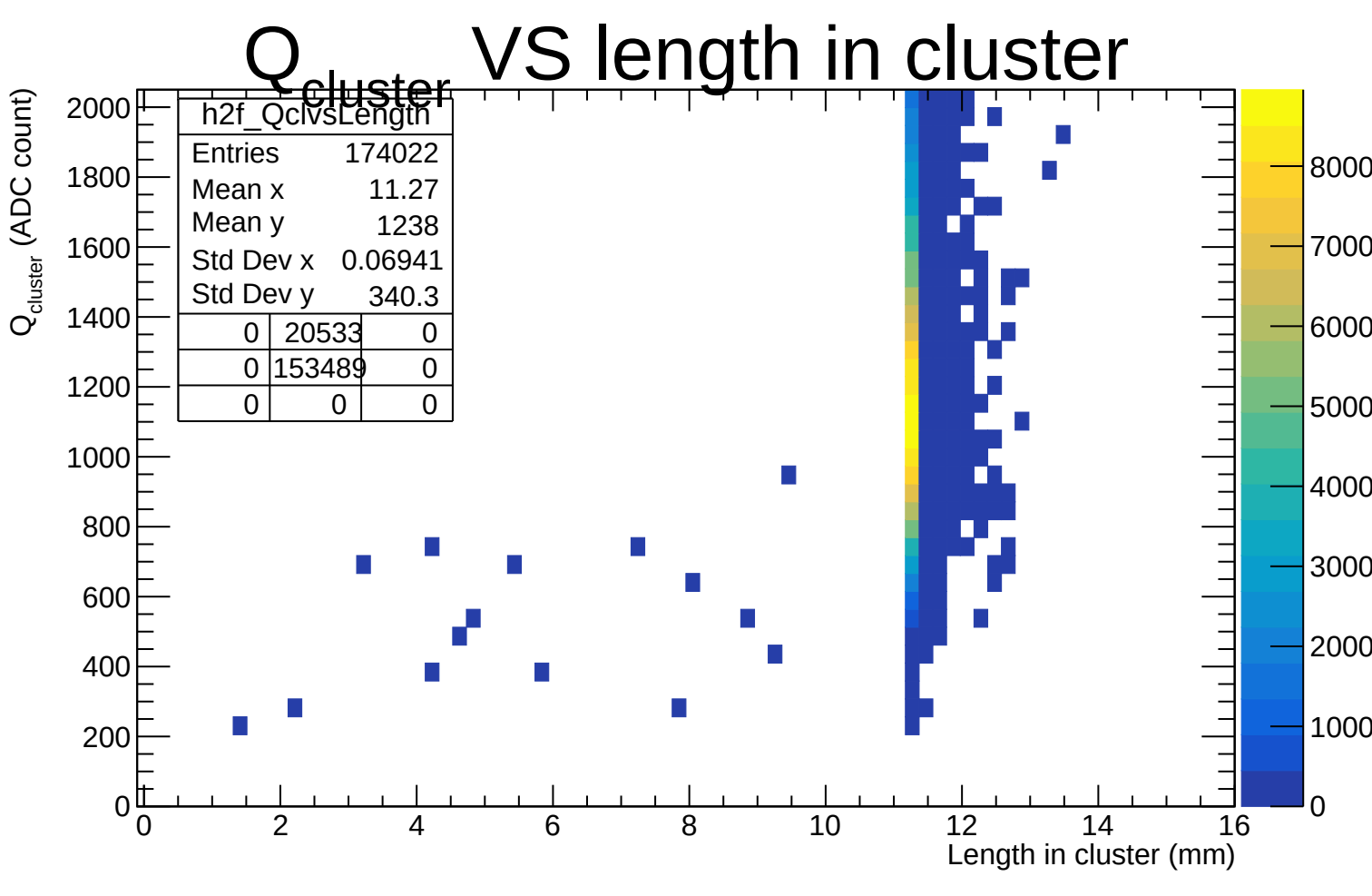

distance of track in cluster
h1f_dist_clus
Entries 174022
Mean 1.13
Std Dev 0.006541
Underflow 0
Overflow 0
10^5
10^4
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
distance (cm)

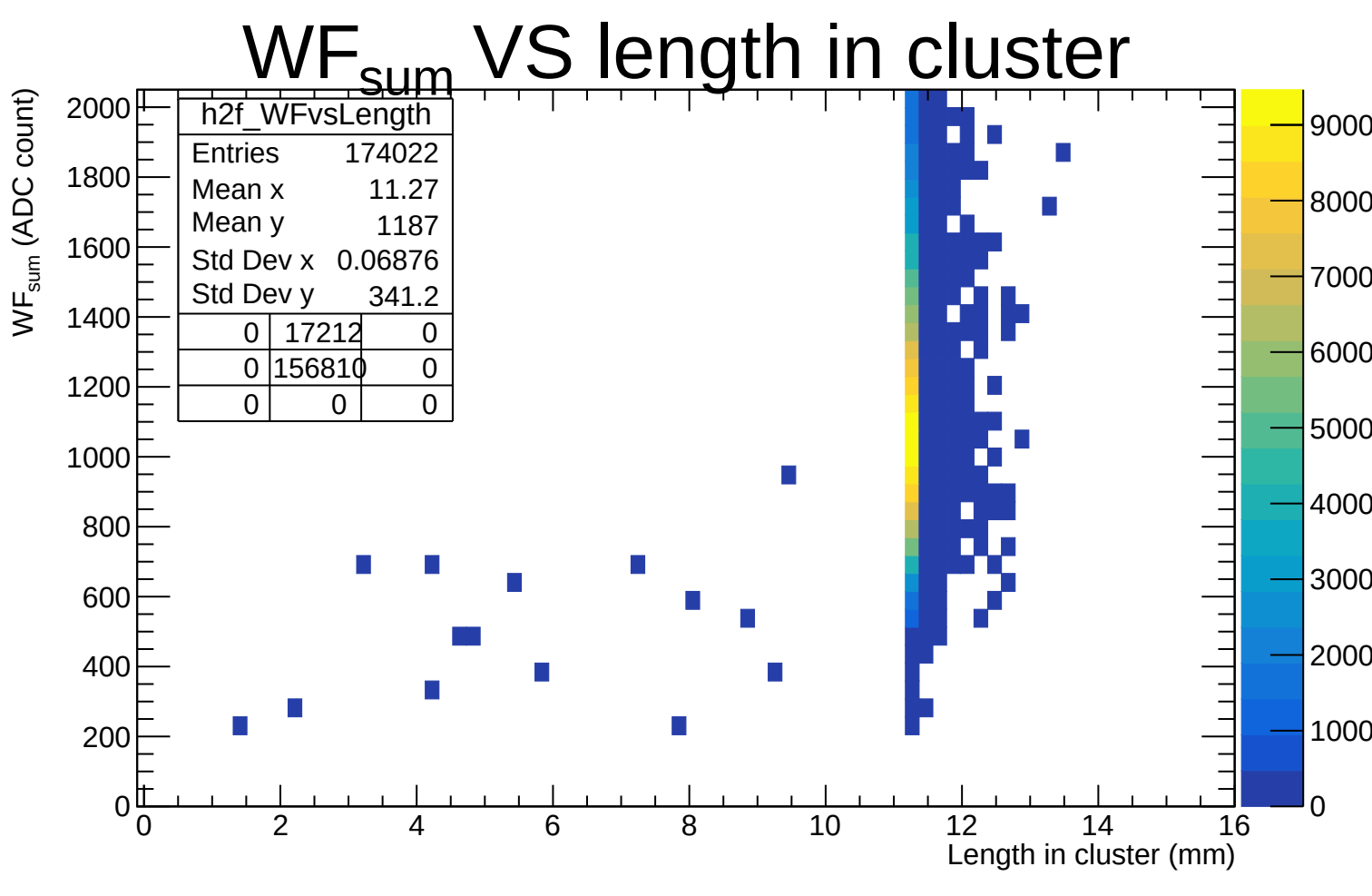

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 181774
Mean x 1.372
Mean y 1.216
Std Dev x 0.2453
Std Dev y 0.2363
0 0 0
0 181774 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 500 1000 1500 2000 2500

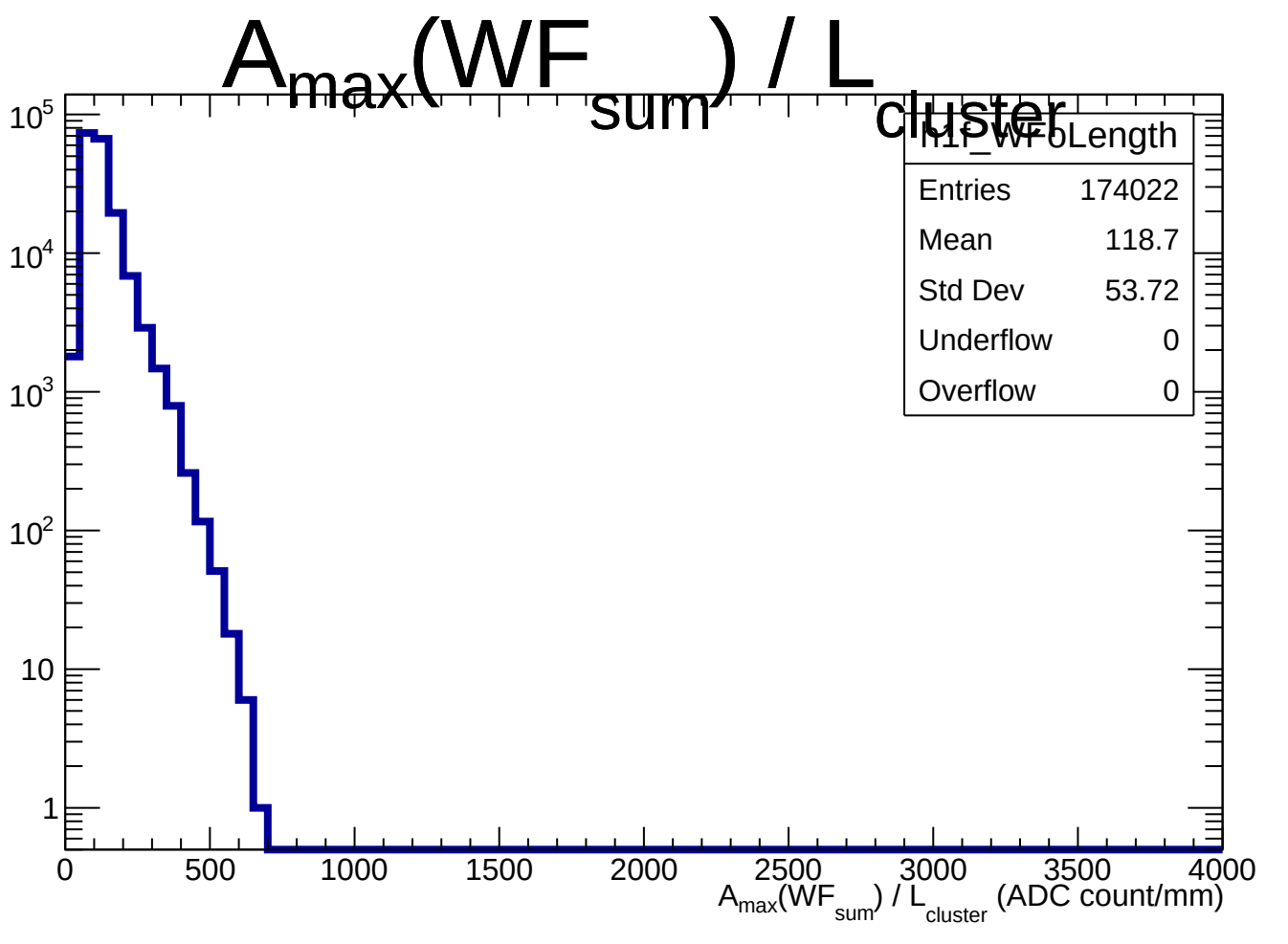

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 186020
Mean x 10.57
Mean y 945.6
Std Dev x 2.229
Std Dev y 458.9
0 0 0
0 186020 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
1000
8000
6000
4000
2000
0

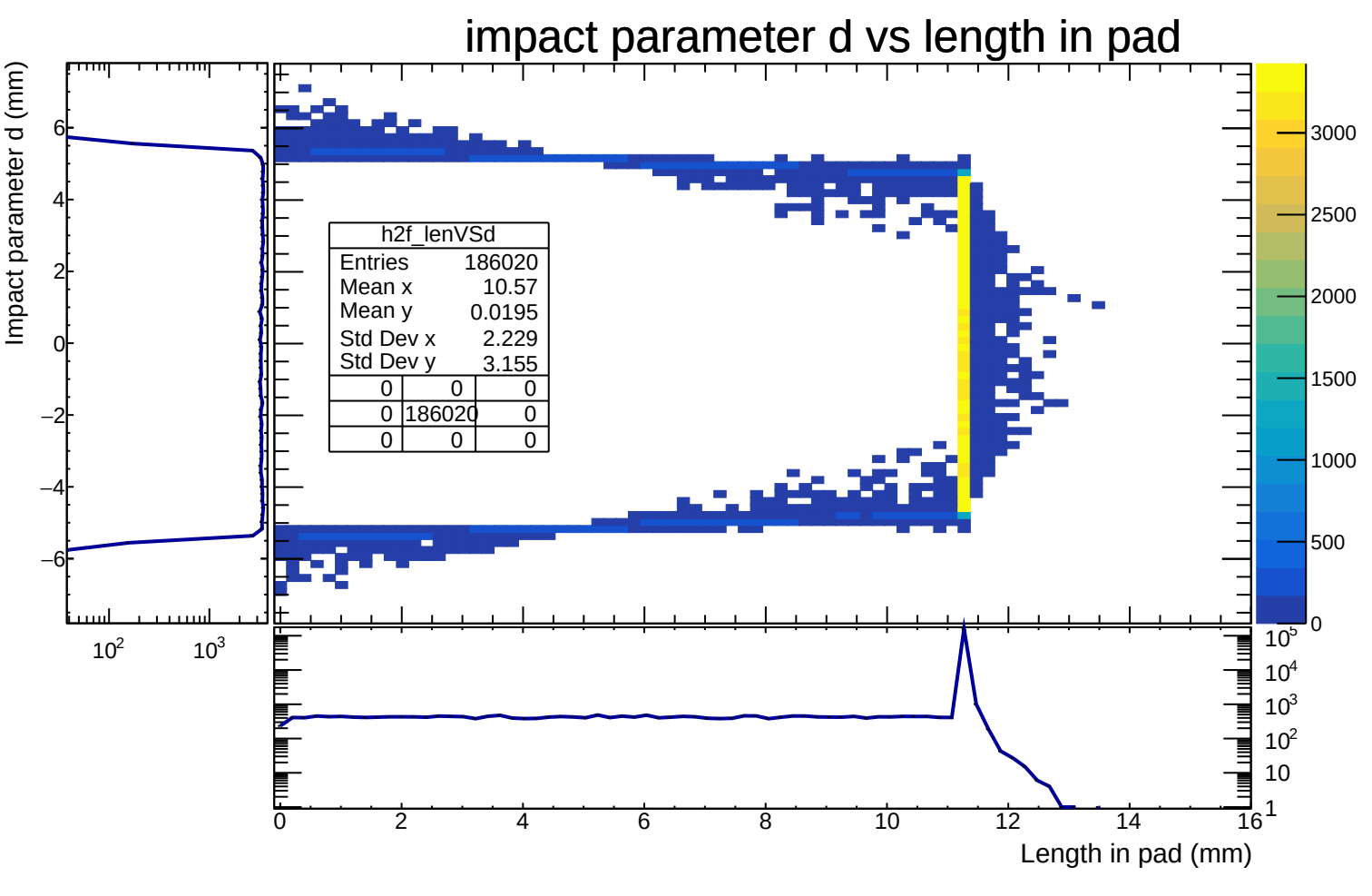

Q^anode VS length in pad (before length cut)
Q^anode
Length in pad (mm)
h2f_QvsLength
Entries 186020
Mean x 10.57
Mean y 1250
Std Dev x 2.234
Std Dev y 598.1
0 1007 0
0 185013 0
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 1000 2000 3000 4000 5000 6000 7000 8000


Q^anode/ADC_max VS length in pad (before length cut)
h2f_LUTvsLength
Entries 186020
Mean x 10.57
Mean y 1.345
Std Dev x 2.229
Std Dev y 0.2979
0 0 0
0 186020 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
3000
2500
2000
1500
1000
5000
0


Q cluster VS length in cluster
h2f_QclvsLength
Entries 174022
Mean x 11.27
Mean y 1238
Std Dev x 0.06941
Std Dev y 340.3
0 20533 0
0 153489 0
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
1000
2000
3000
4000
5000
6000
7000
8000


WF_sum VS length in cluster
h2f_WFvsLength
Entries 174022
Mean x 11.27
Mean y 1187
Std Dev x 0.06876
Std Dev y 341.2
0 17212 0
0 156810 0
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
0 1000 2000 3000 4000 5000 6000 7000 8000 9000


$A_{max}(WF_{sum}) / L_{cluster}$
h1_WF0Length
Entries 174022
Mean 118.7
Std Dev 53.72
Underflow 0
Overflow 0
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 186020
Mean x 10.57
Mean y 0.0195
Std Dev x 2.229
Std Dev y 3.155
0 0 0
0 186020 0
0 0 0