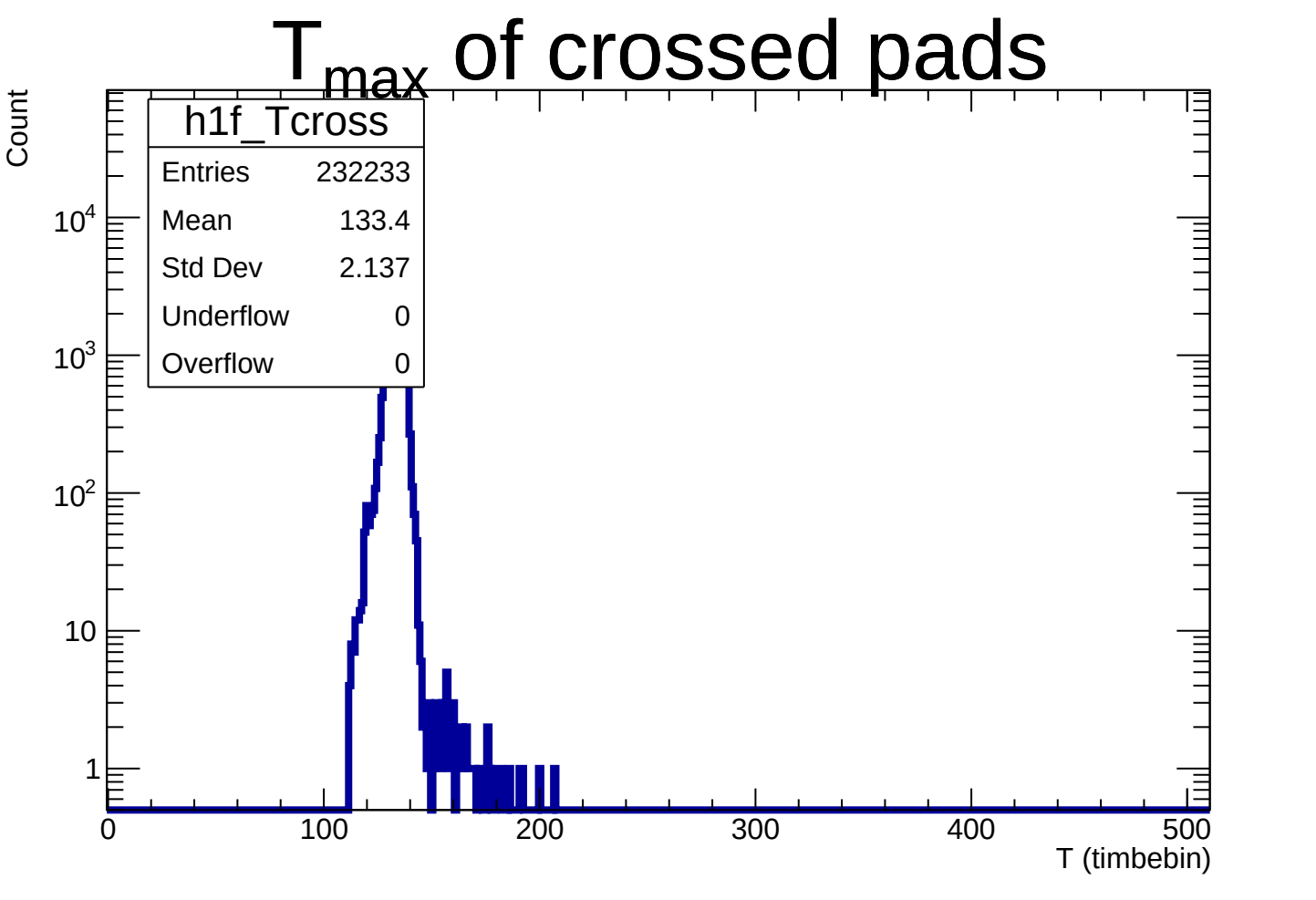
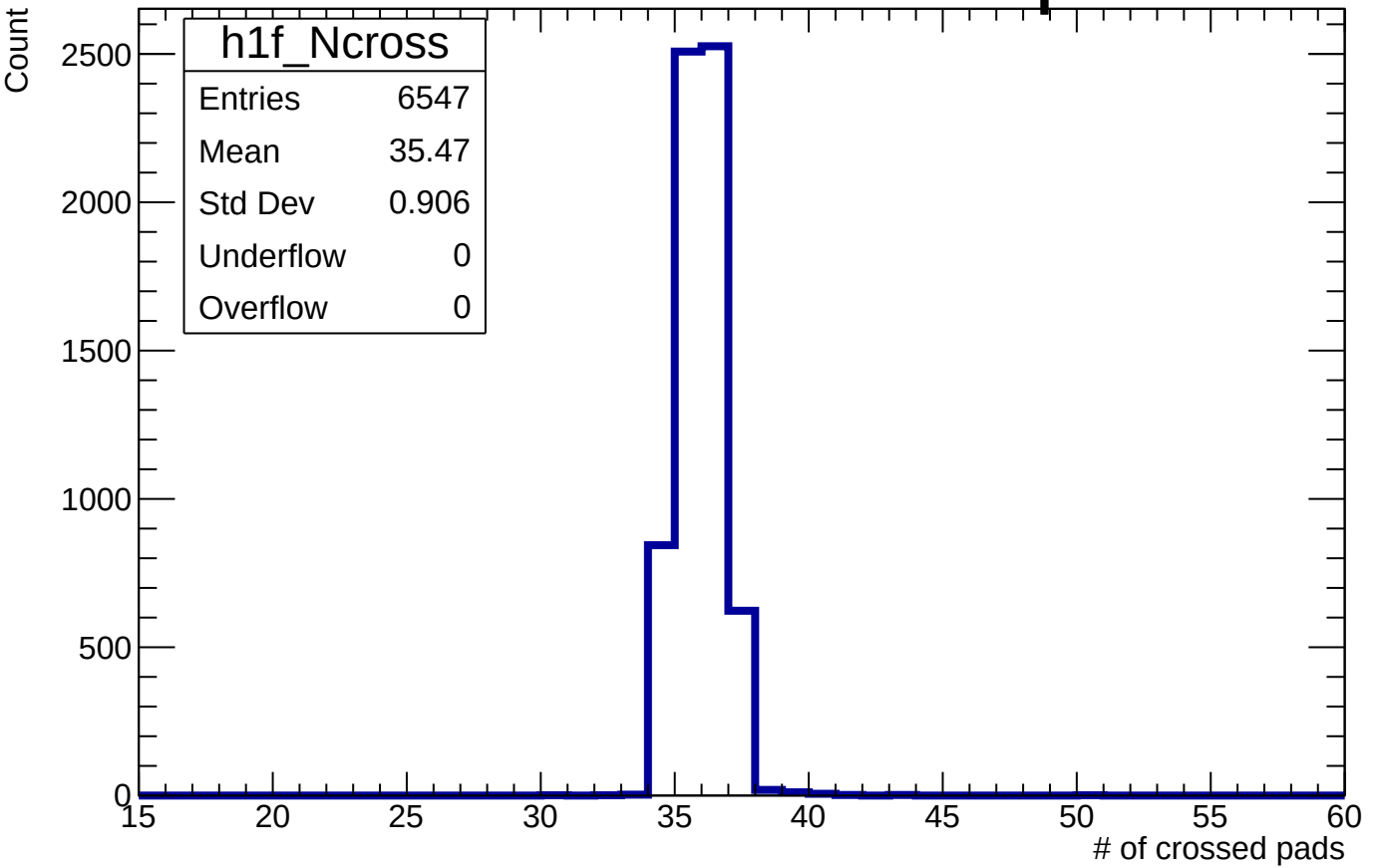
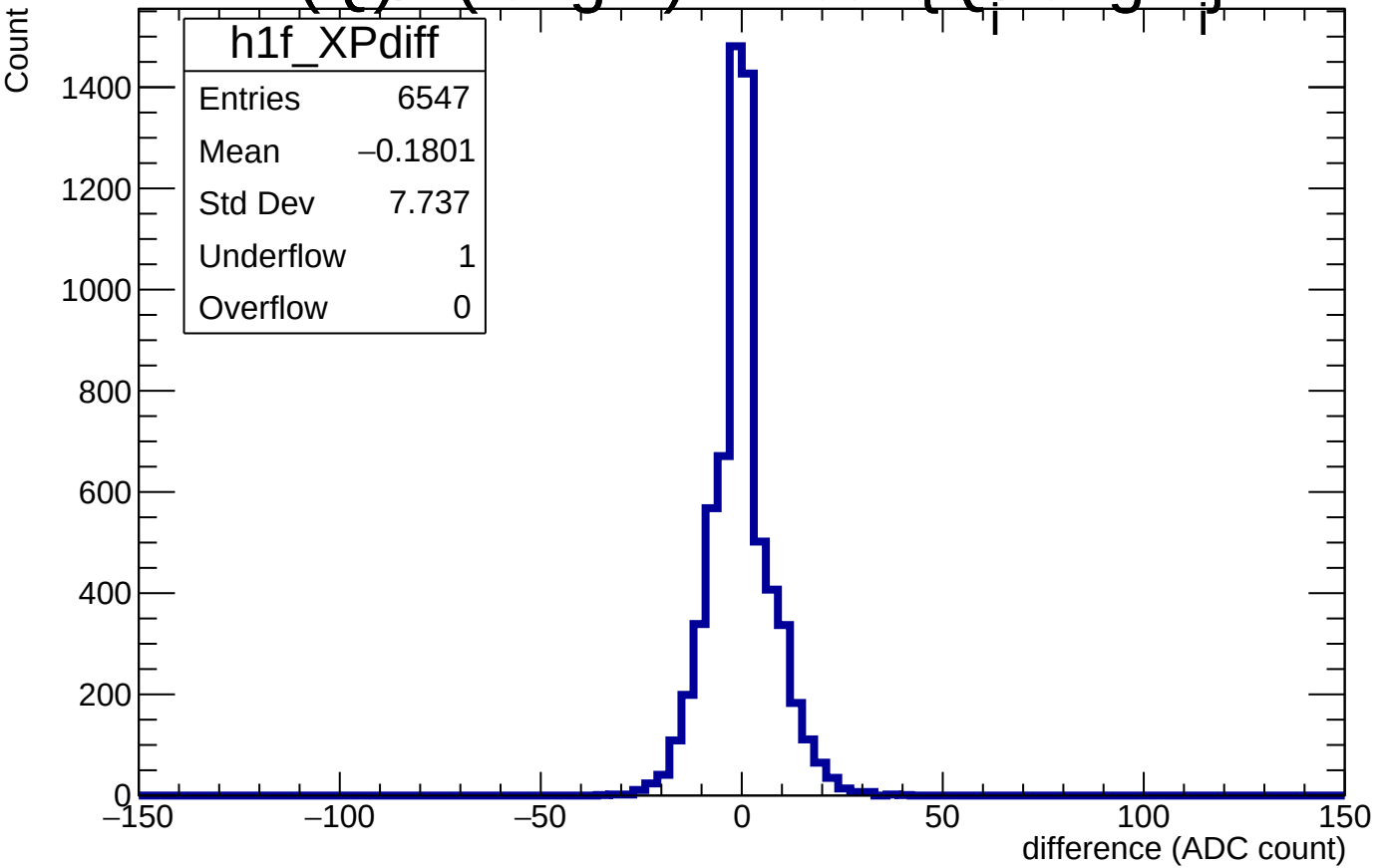
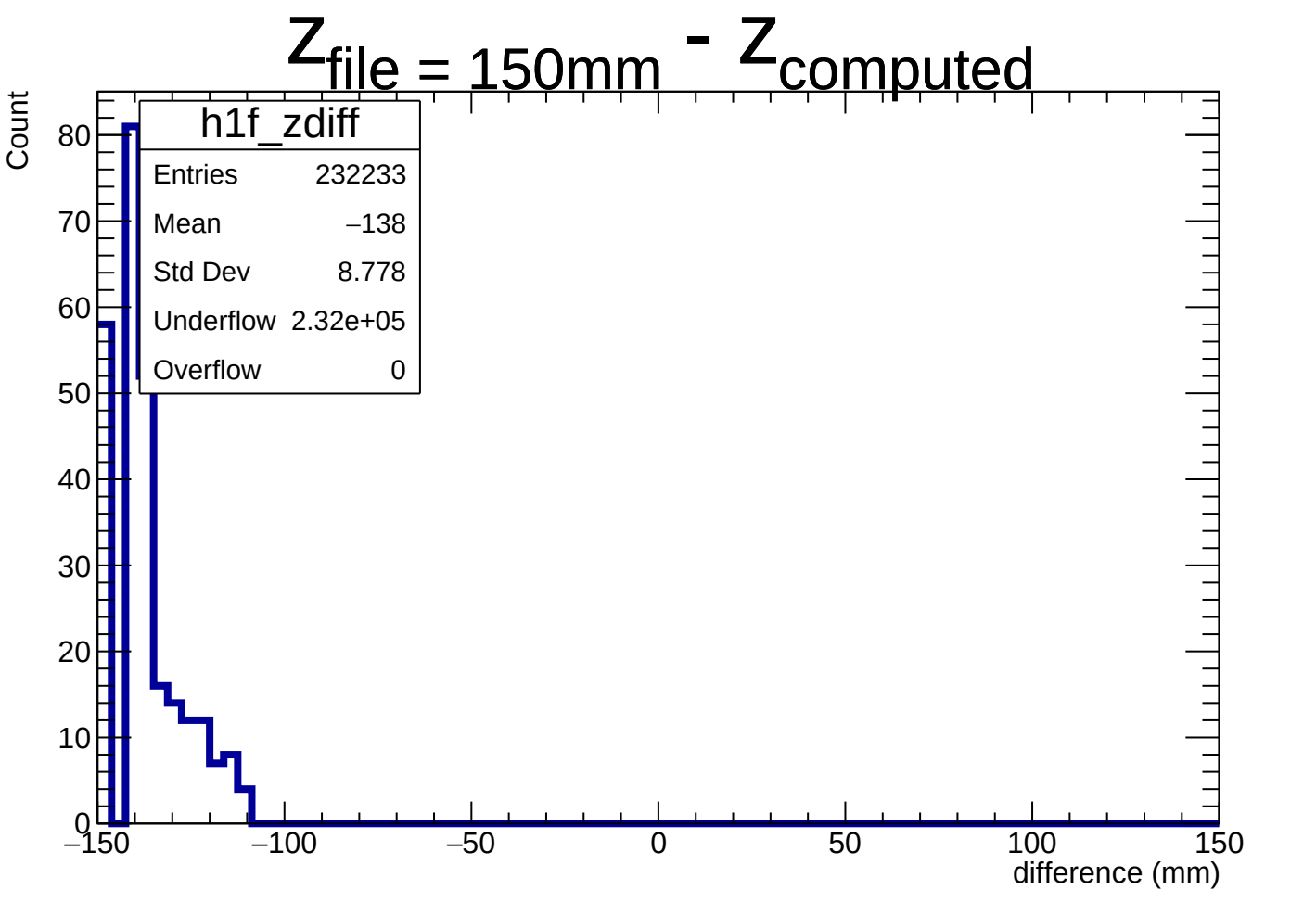
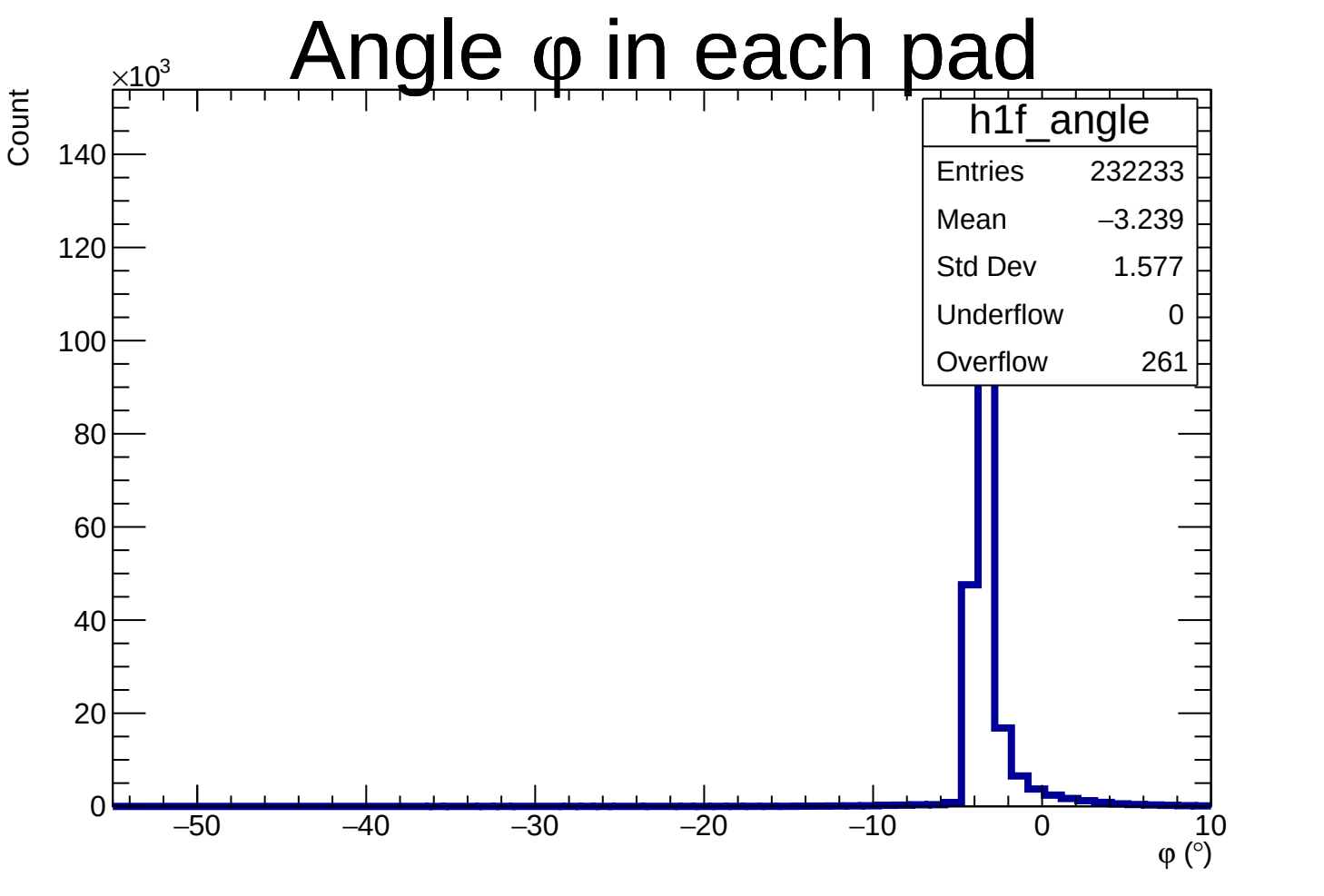
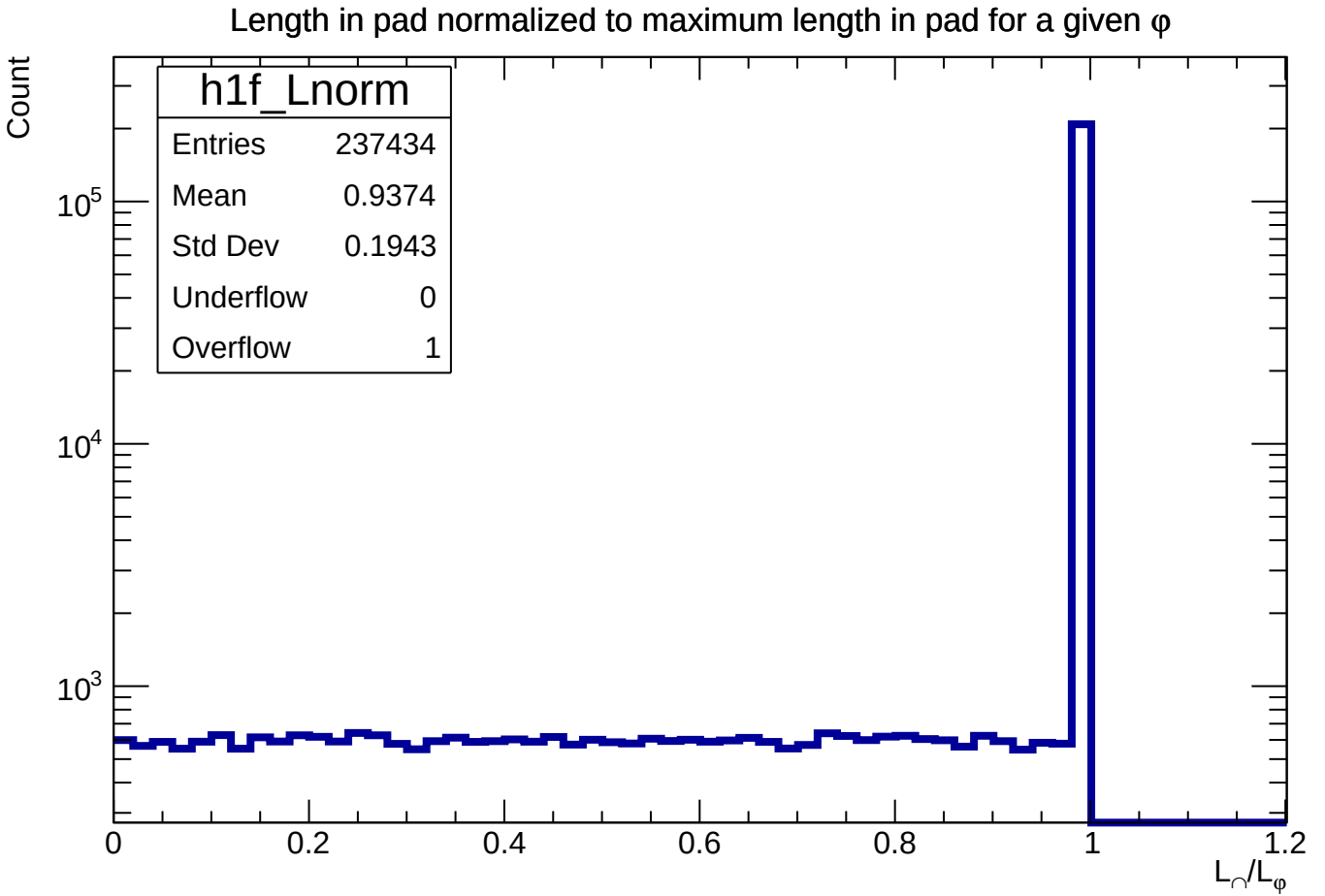

T_max of crossed pads
h1f_Tcross
Entries 232233
Mean 133.4
Std Dev 2.137
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

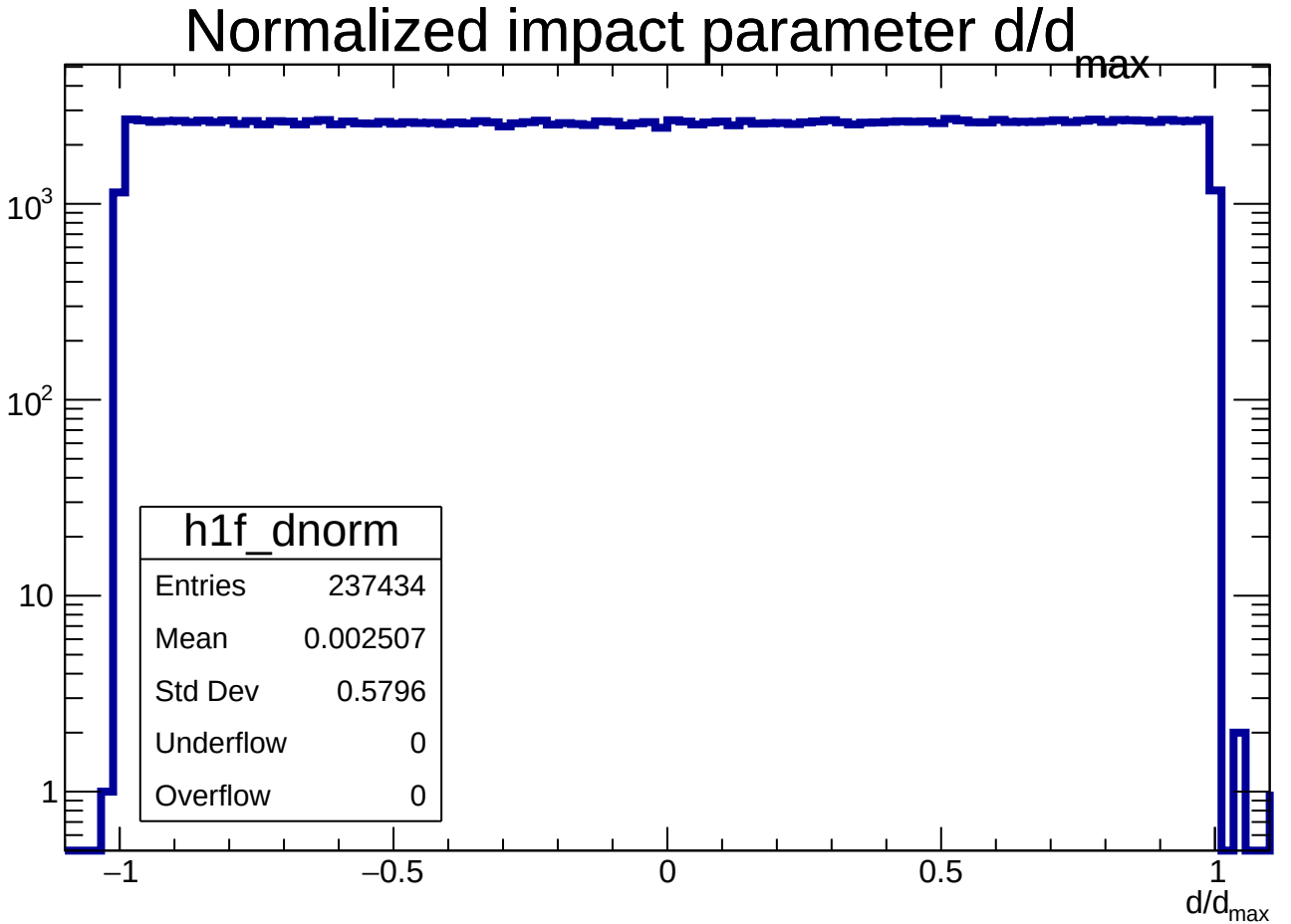

Number of crossed pads
h1f_Ncross
Entries 6547
Mean 35.47
Std Dev 0.906
Underflow 0
Overflow 0
Count
2500
2000
1500
1000
500
0
15
20
25
30
35
40
45
50
55
60
# of crossed pads

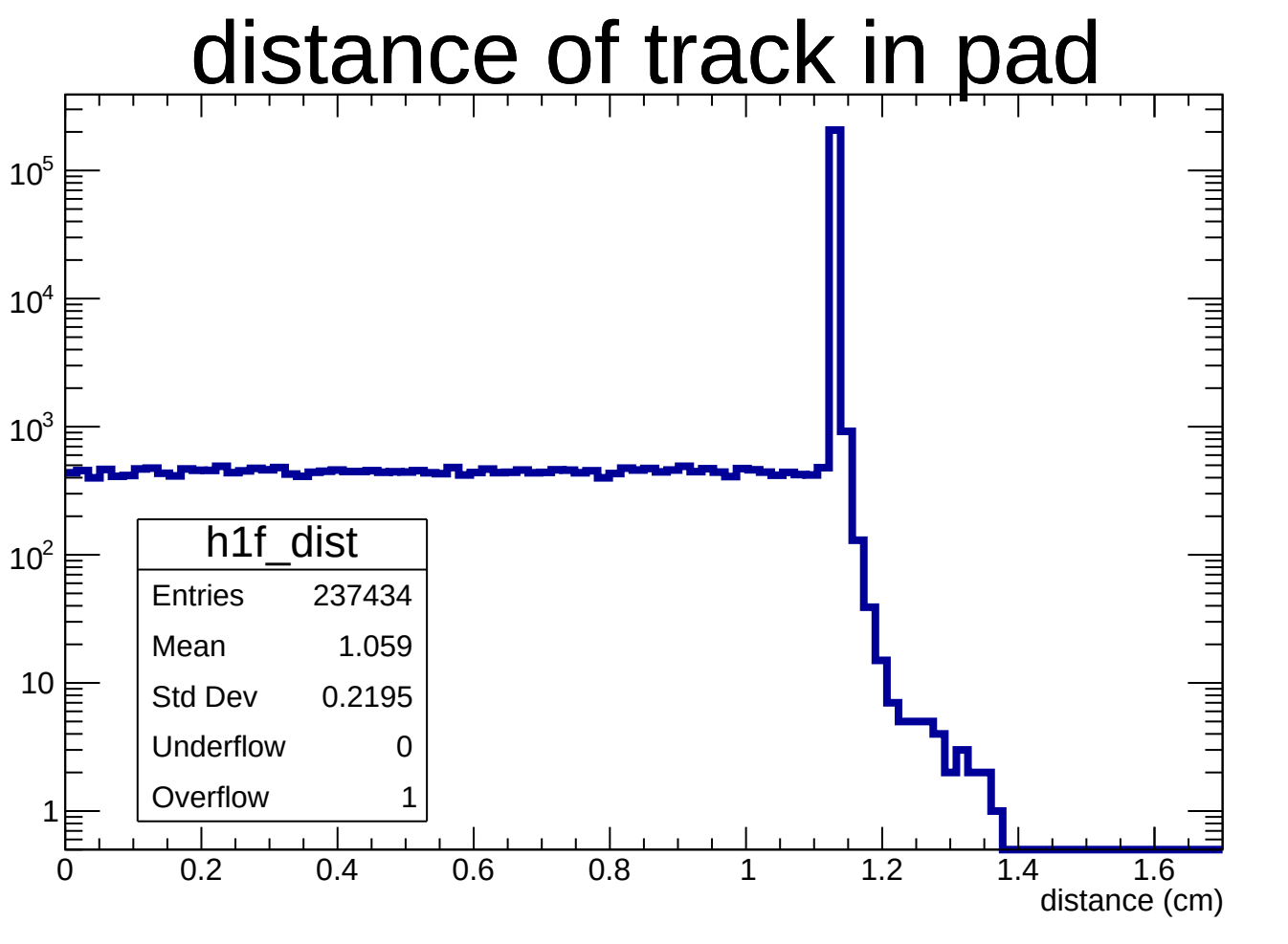

Σ(Q)/Σ(length) - mean{Q/length}
h1f_XPdiff
Entries 6547
Mean –0.1801
Std Dev 7.737
Underflow 1
Overflow 0
Count
1400
1200
1000
800
600
400
200
0
–150
–100
–50
0
50
100
150
difference (ADC count)

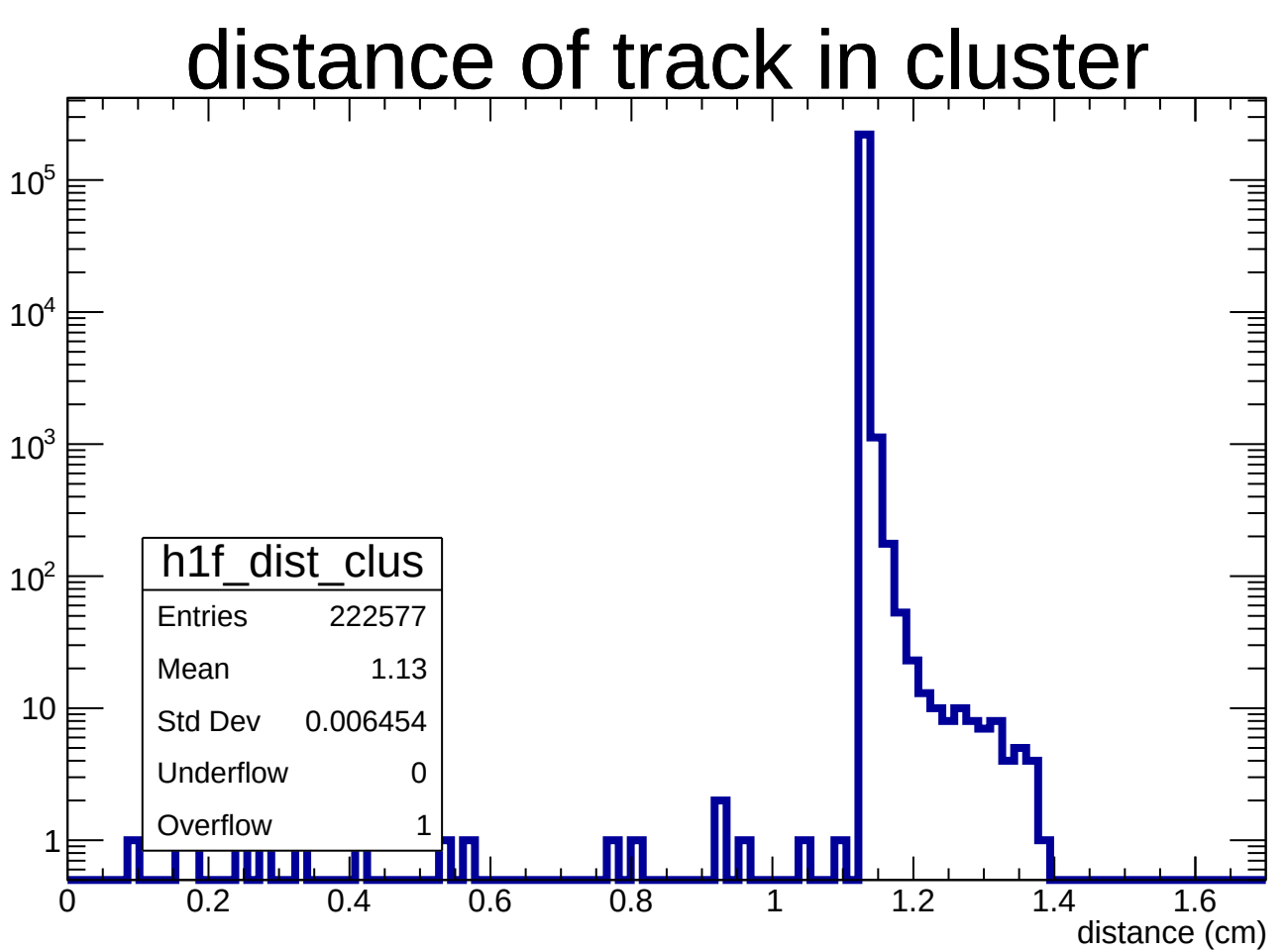

$Z_{file = 150mm} - Z_{computed}$
h1f_zdiff
Entries 232233
Mean −138
Std Dev 8.778
Underflow 2.32e+05
Overflow 0
Count
0
10
20
30
40
50
60
70
80
−150
−100
−50
0
50
100
150
difference (mm)

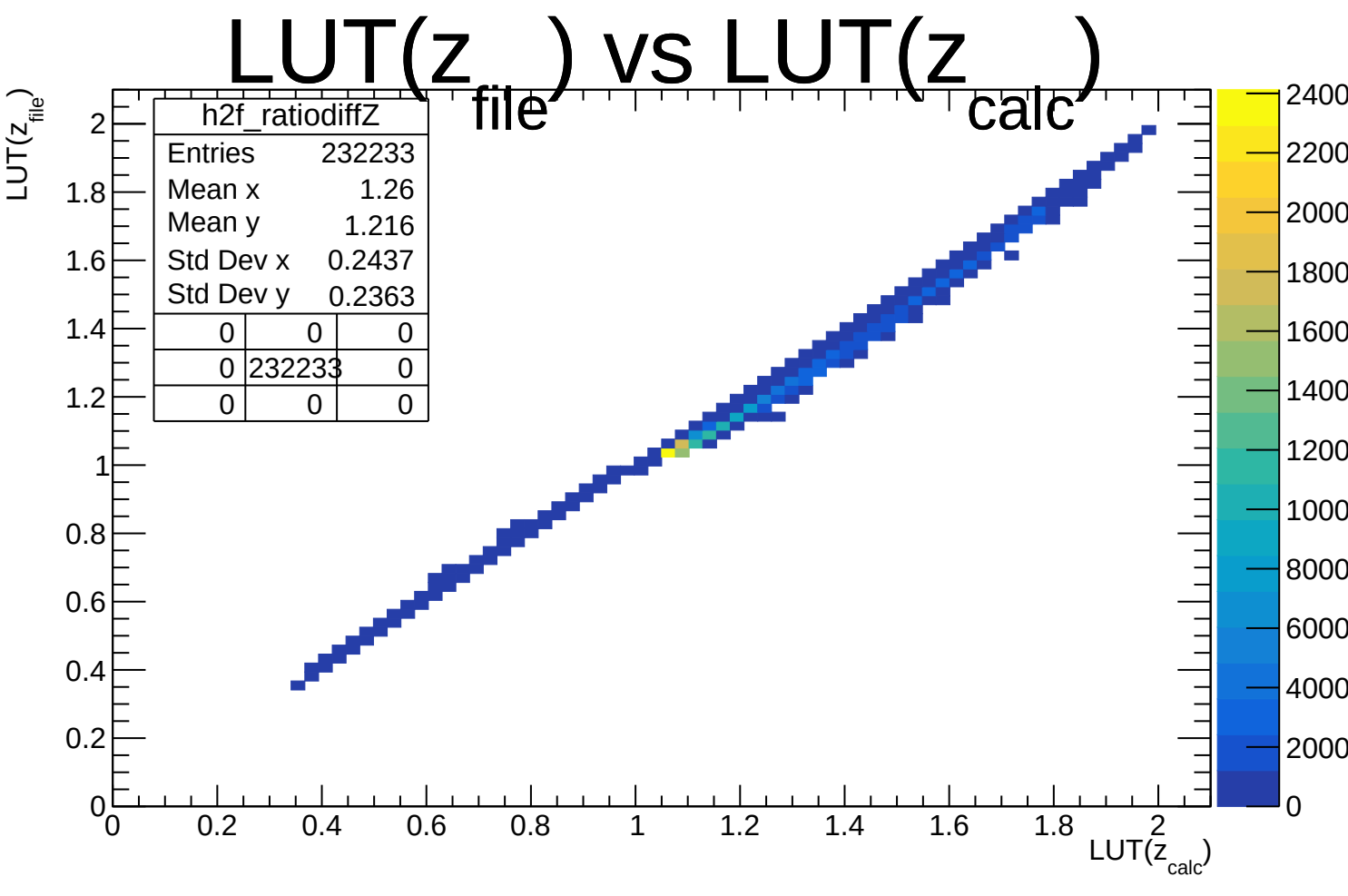

Angle φ in each pad
×10^3
Count
140
120
100
80
60
40
20
0
h1f_angle
Entries 232233
Mean −3.239
Std Dev 1.577
Underflow 0
Overflow 261
−50
−40
−30
−20
−10
0
10
φ (°)

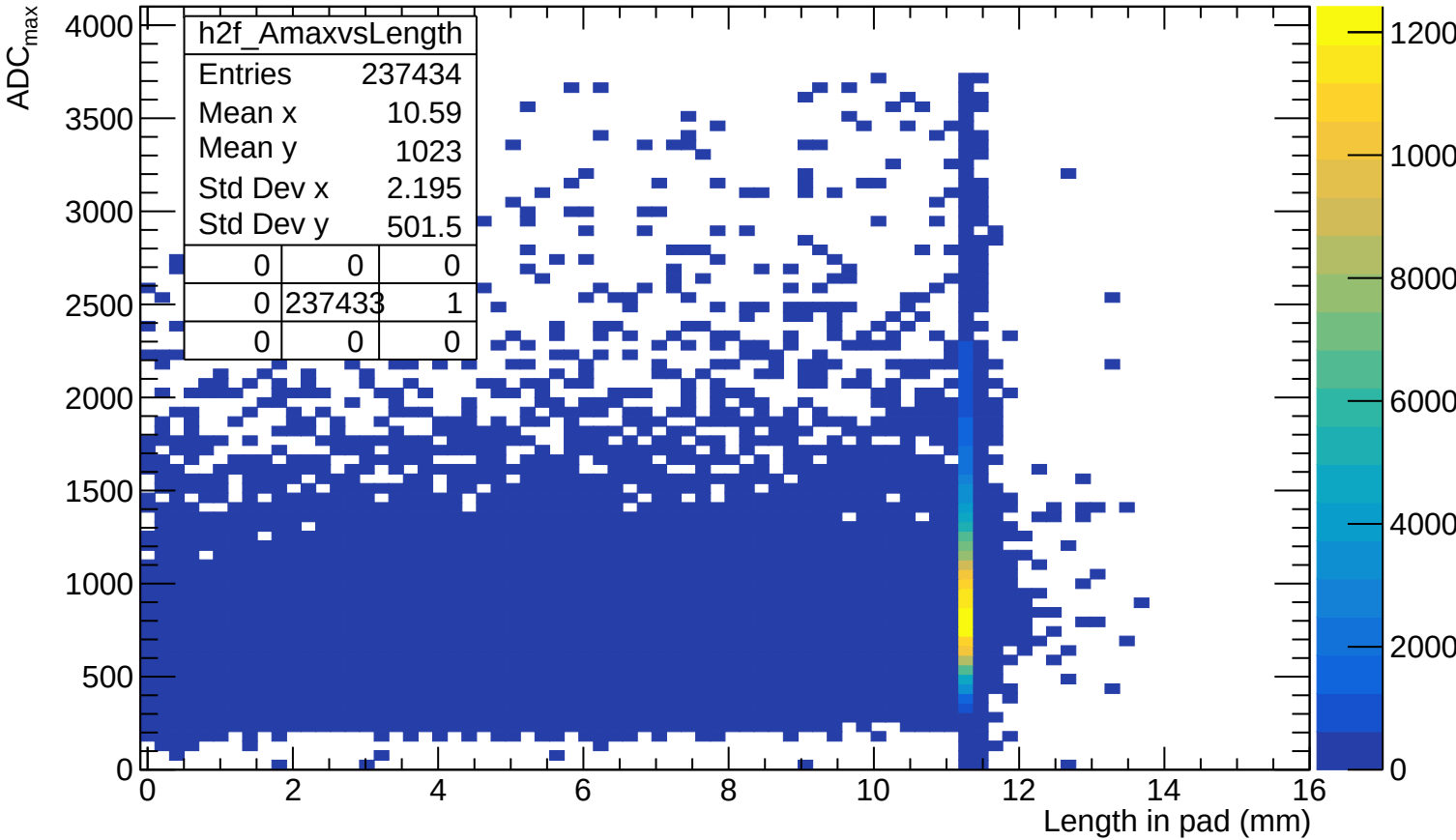

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 237434
Mean 0.9374
Std Dev 0.1943
Underflow 0
Overflow 1
Count
10^5
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
L◠/Lφ

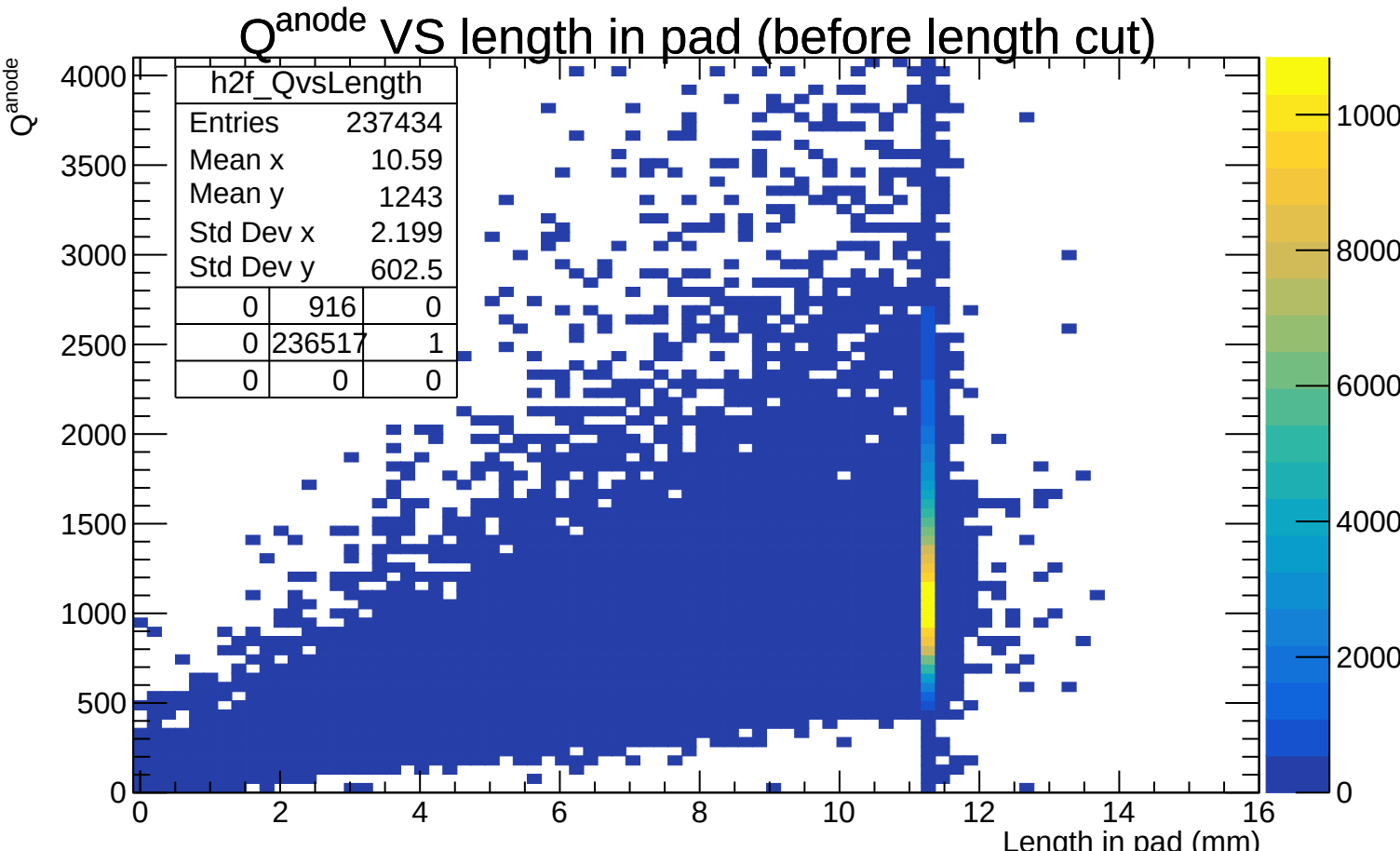

Normalized impact parameter d/d max
10^3
10^2
10
1
h1f_dnorm
Entries 237434
Mean 0.002507
Std Dev 0.5796
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

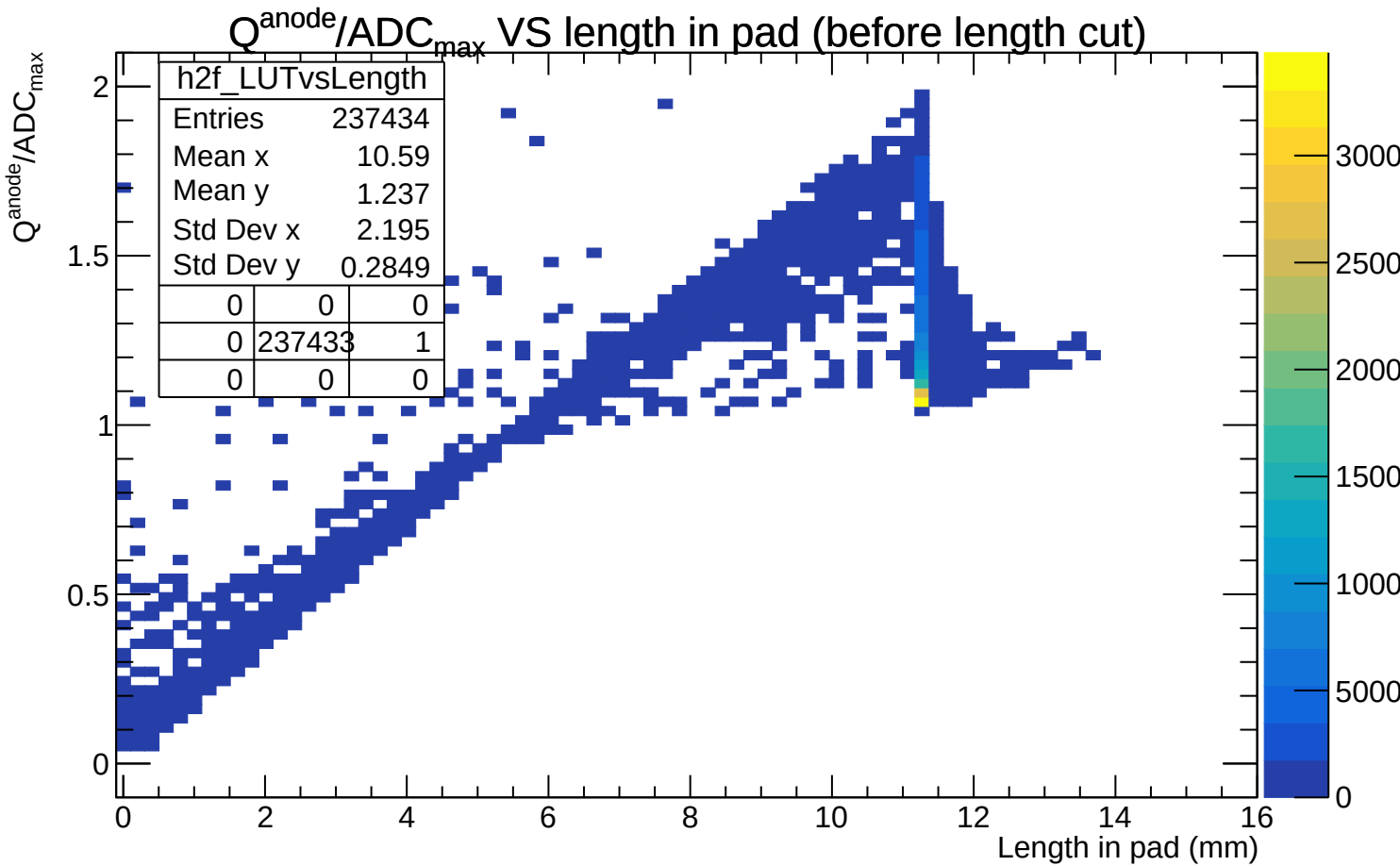

distance of track in pad
10^5
10^4
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
distance (cm)
h1f_dist
Entries 237434
Mean 1.059
Std Dev 0.2195
Underflow 0
Overflow 1

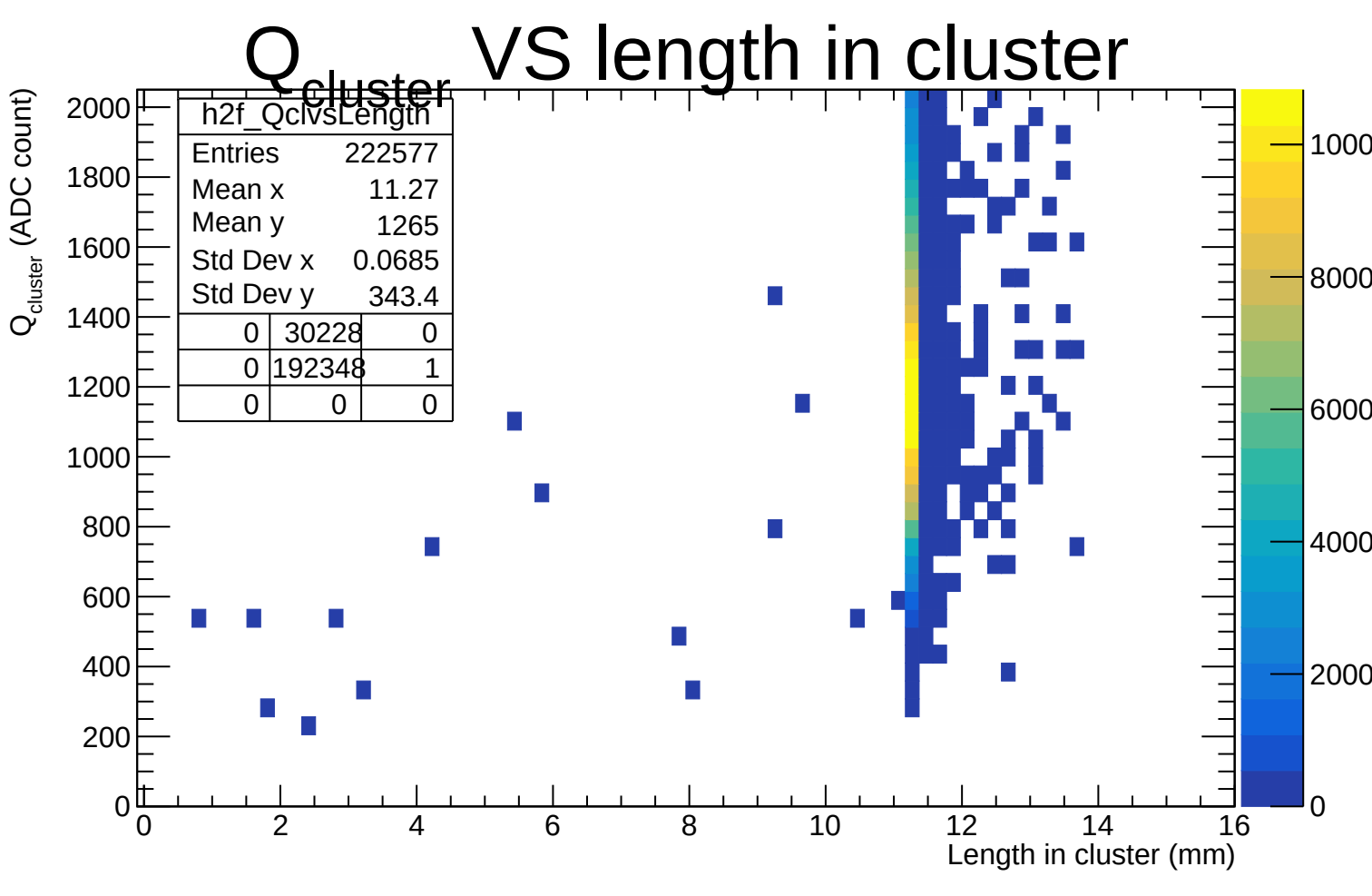

distance of track in cluster
h1f_dist_clus
Entries 222577
Mean 1.13
Std Dev 0.006454
Underflow 0
Overflow 1
10^5
10^4
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
distance (cm)

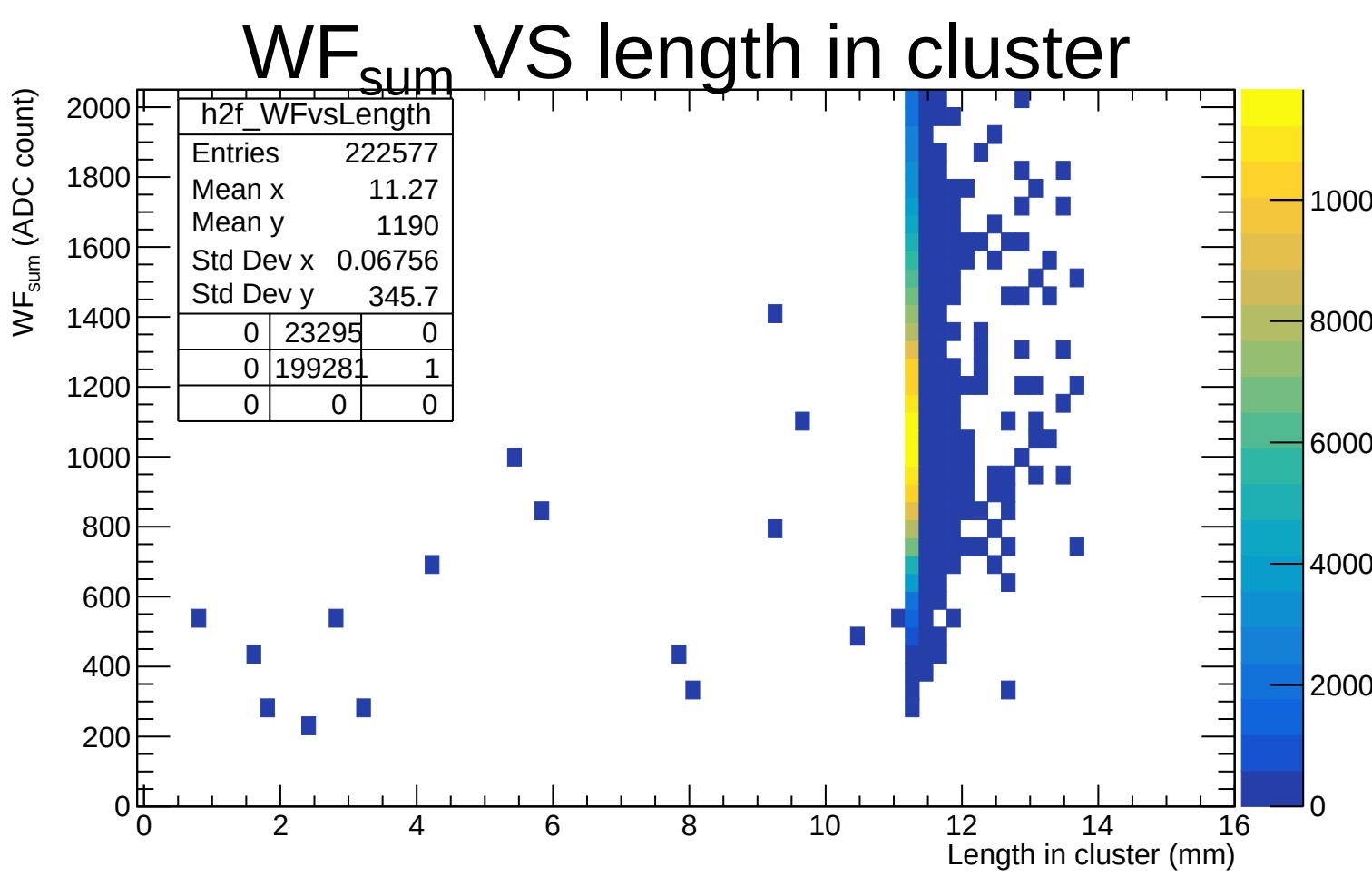

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 232233
Mean x 1.26
Mean y 1.216
Std Dev x 0.2437
Std Dev y 0.2363
0 0 0
0 232233 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
2400 2200 2000 1800 1600 1400 1200 1000 8000 6000 4000 2000 0

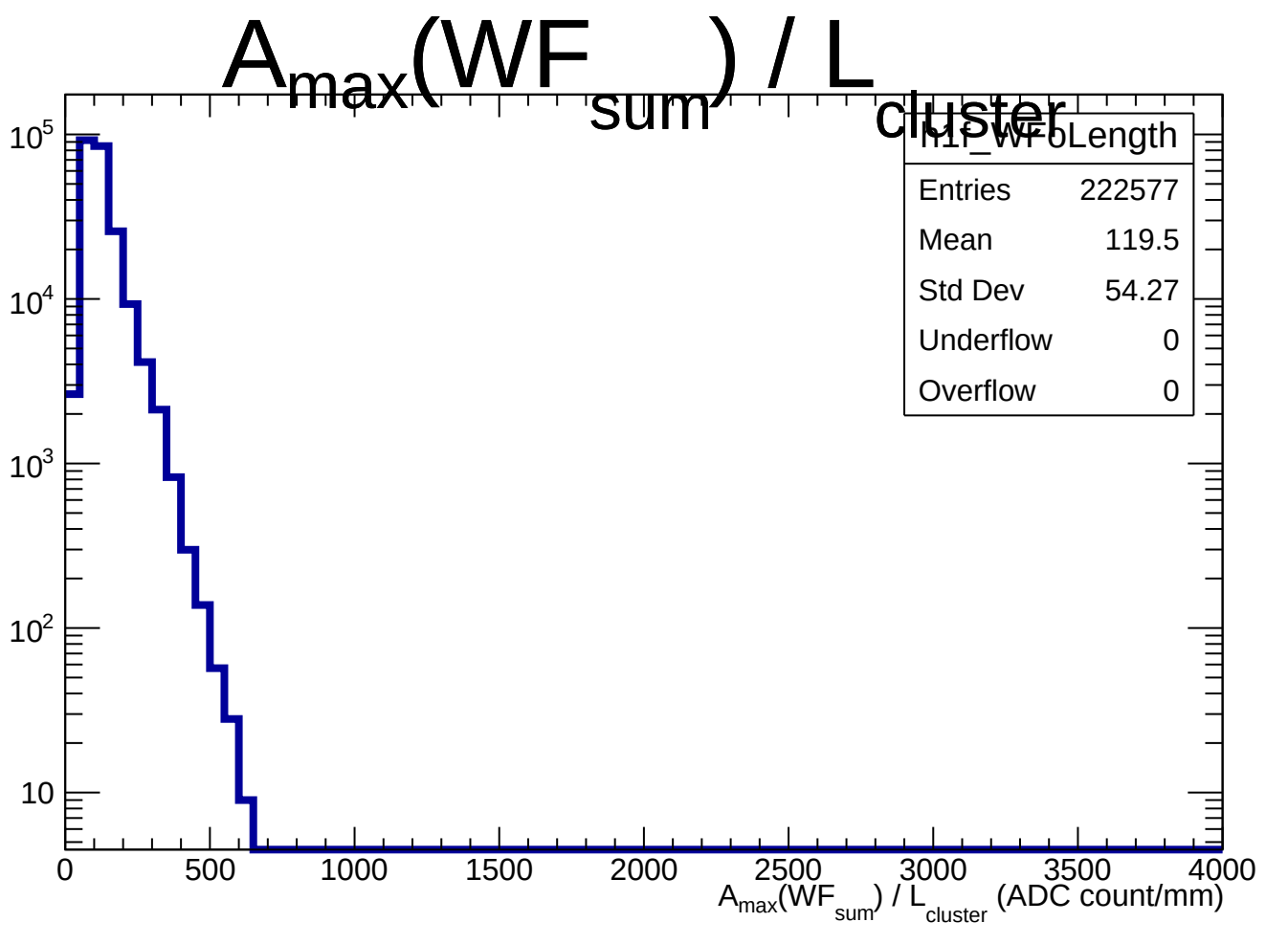

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 237434
Mean x 10.59
Mean y 1023
Std Dev x 2.195
Std Dev y 501.5
0 0 0
0 237433 1
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
0
2000
4000
6000
8000
1000
1200

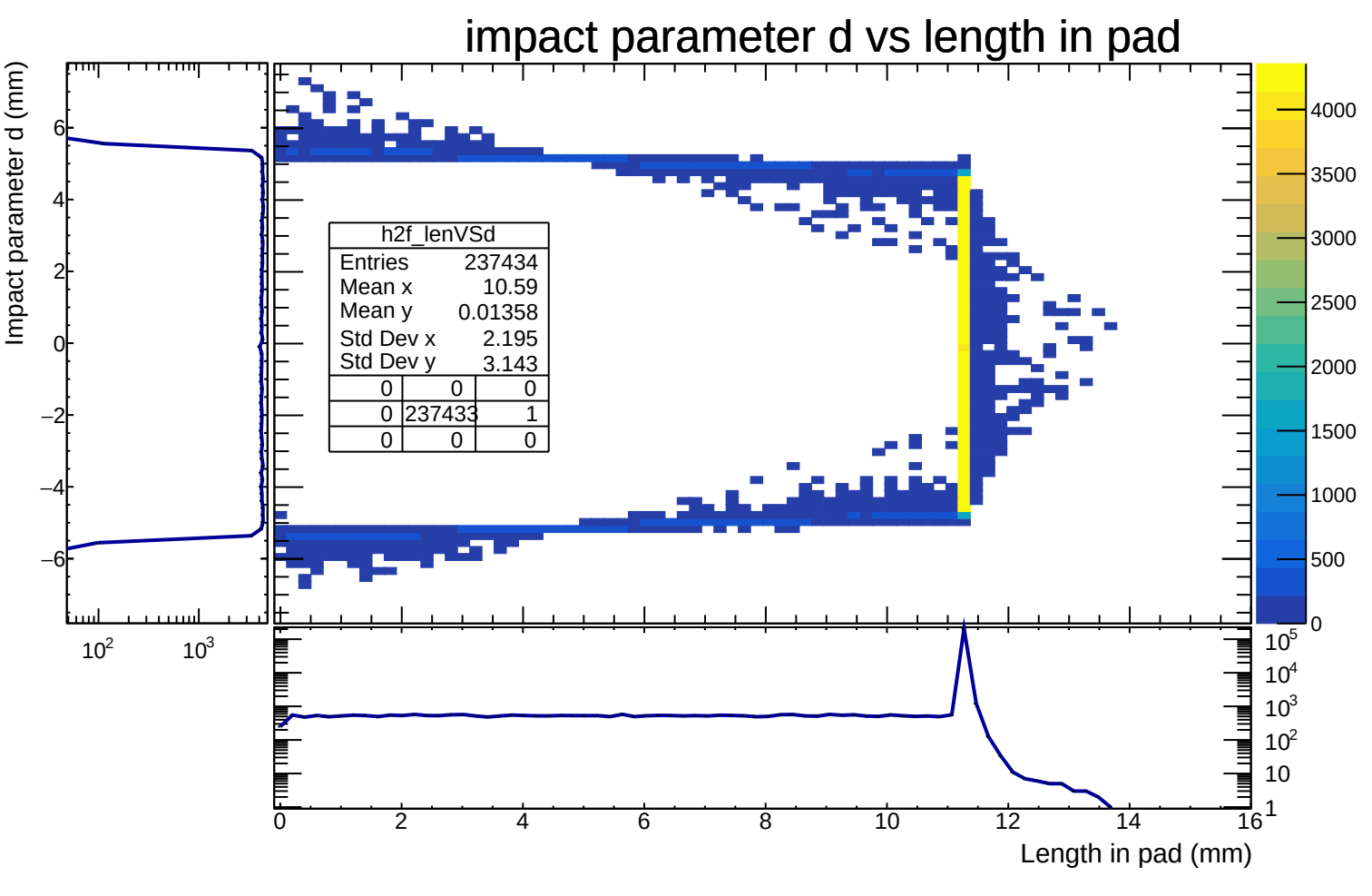

Q^anode VS length in pad (before length cut)
h2f_QvsLength
Entries 237434
Mean x 10.59
Mean y 1243
Std Dev x 2.199
Std Dev y 602.5
0 916 0
0 236517 1
0 0 0
Q^anode
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
1000
8000
6000
4000
2000
0


Q^anode/ADC_max VS length in pad (before length cut)
h2f_LUTvsLength
Entries 237434
Mean x 10.59
Mean y 1.237
Std Dev x 2.195
Std Dev y 0.2849
0 0 0
0 237433 1
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
0
1000
2000
3000
5000


Q cluster VS length in cluster
h2f_QclvsLength
Entries 222577
Mean x 11.27
Mean y 1265
Std Dev x 0.0685
Std Dev y 343.4
0 30228 0
0 192348 1
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
0
2000
4000
6000
8000
1000


WF_sum VS length in cluster
h2f_WFvsLength
Entries 222577
Mean x 11.27
Mean y 1190
Std Dev x 0.06756
Std Dev y 345.7
0 23295 0
0 199281 1
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
1000
2000
4000
6000
8000


$A_{max}(WF_{sum}) / L_{cluster}$
h1_WF0Length
Entries 222577
Mean 119.5
Std Dev 54.27
Underflow 0
Overflow 0
10^5
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)
Length in pad (mm)
h2f_lenVSd
Entries 237434
Mean x 10.59
Mean y 0.01358
Std Dev x 2.195
Std Dev y 3.143
0 0 0
0 237433 1
0 0 0