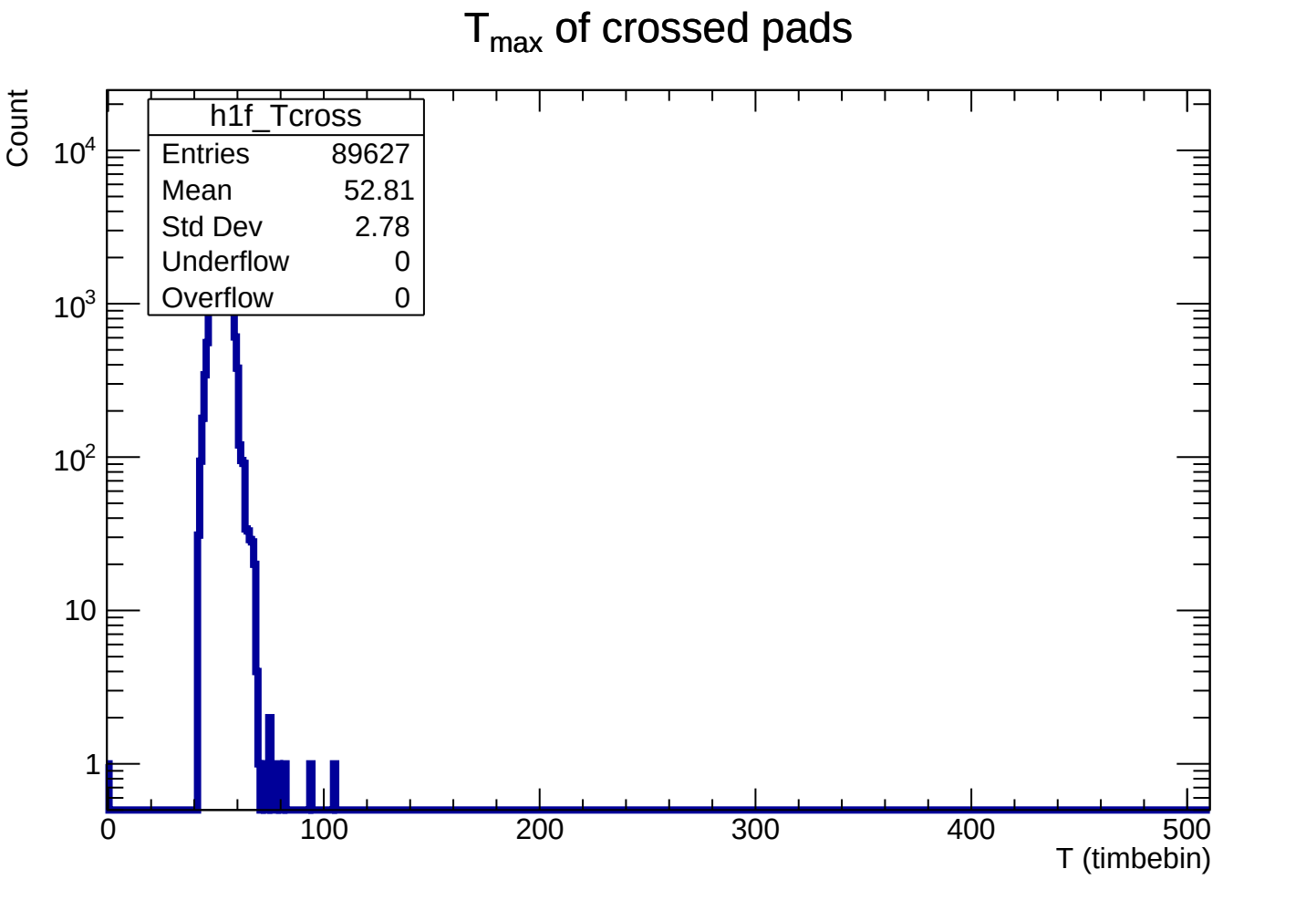
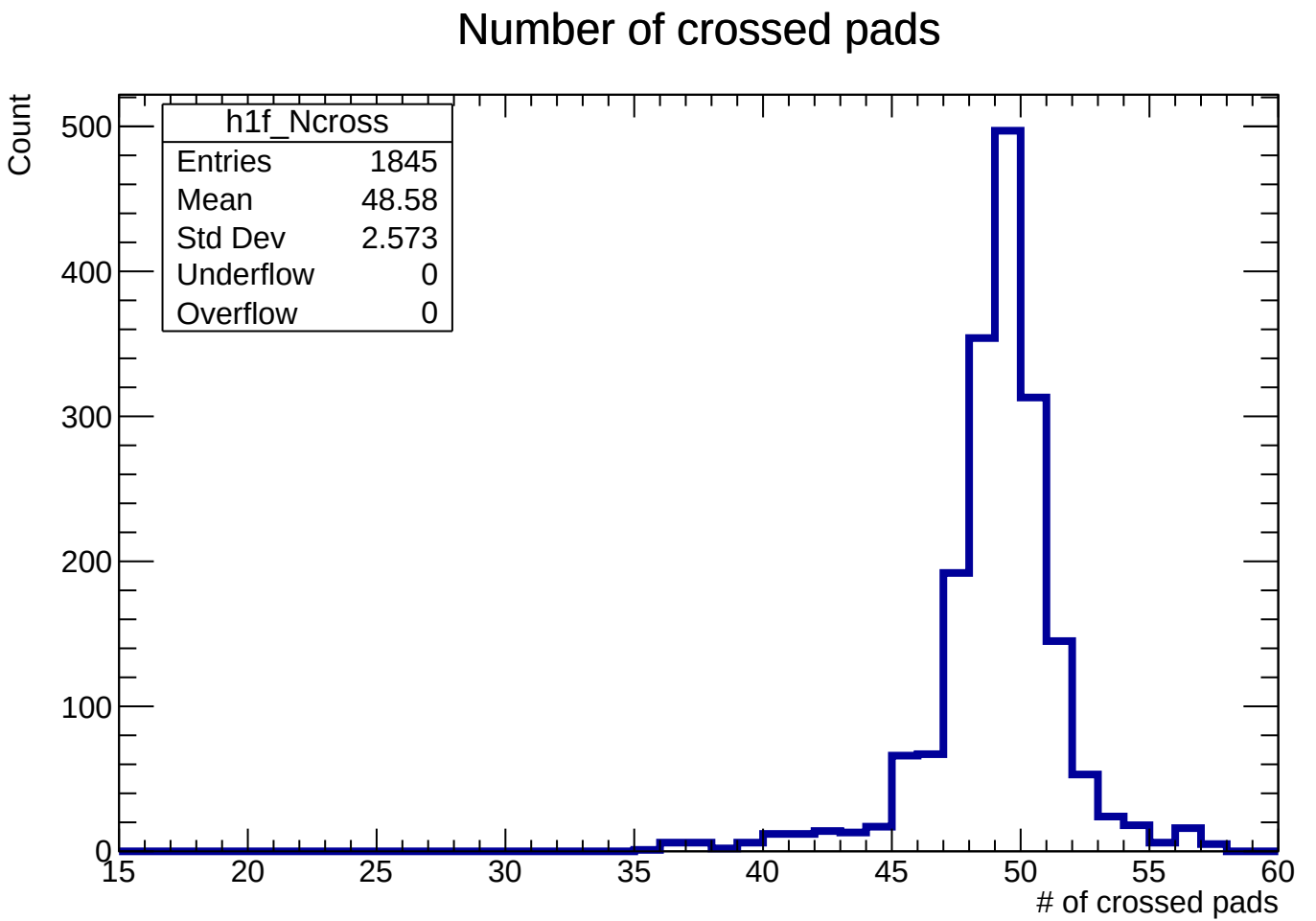
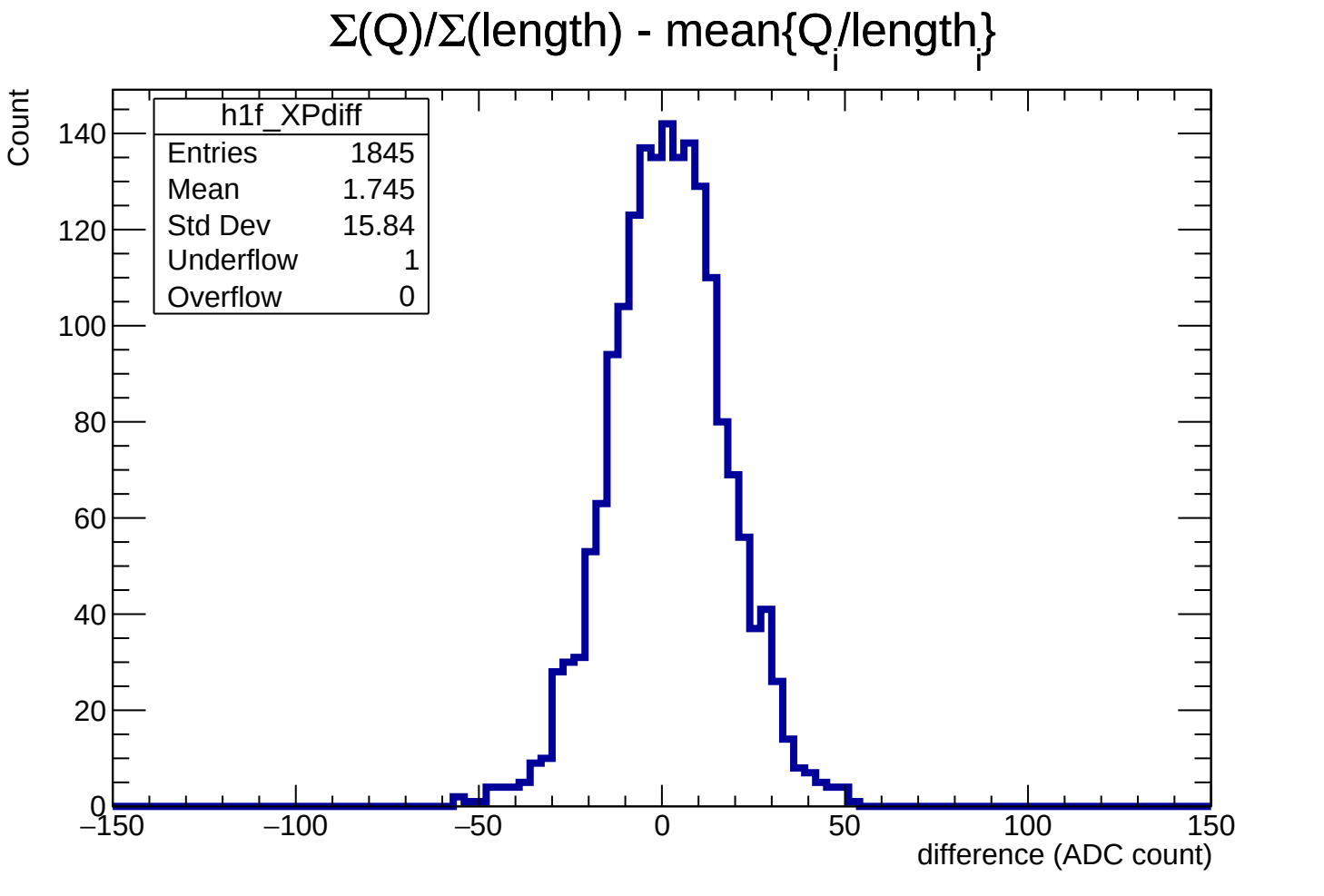
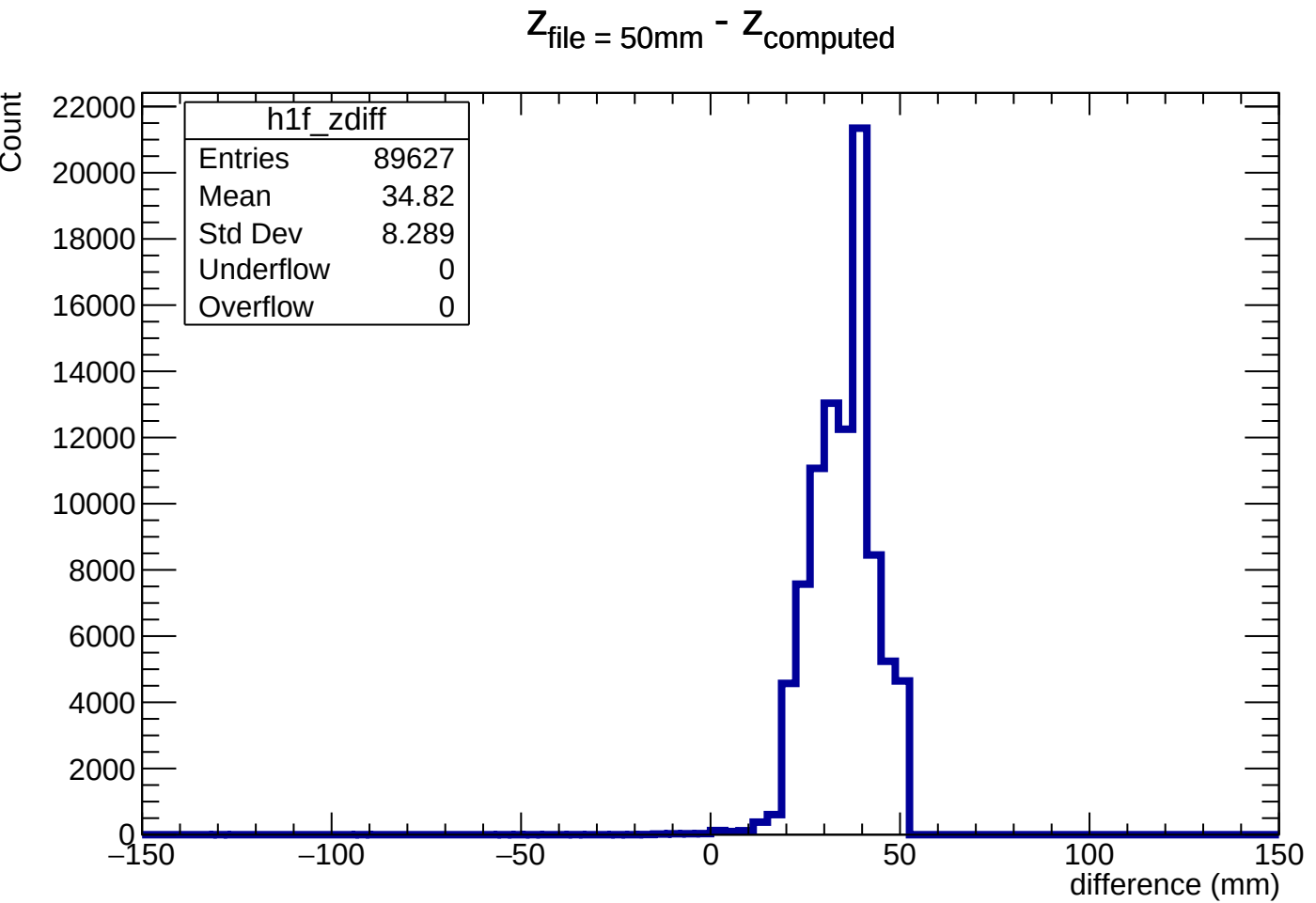
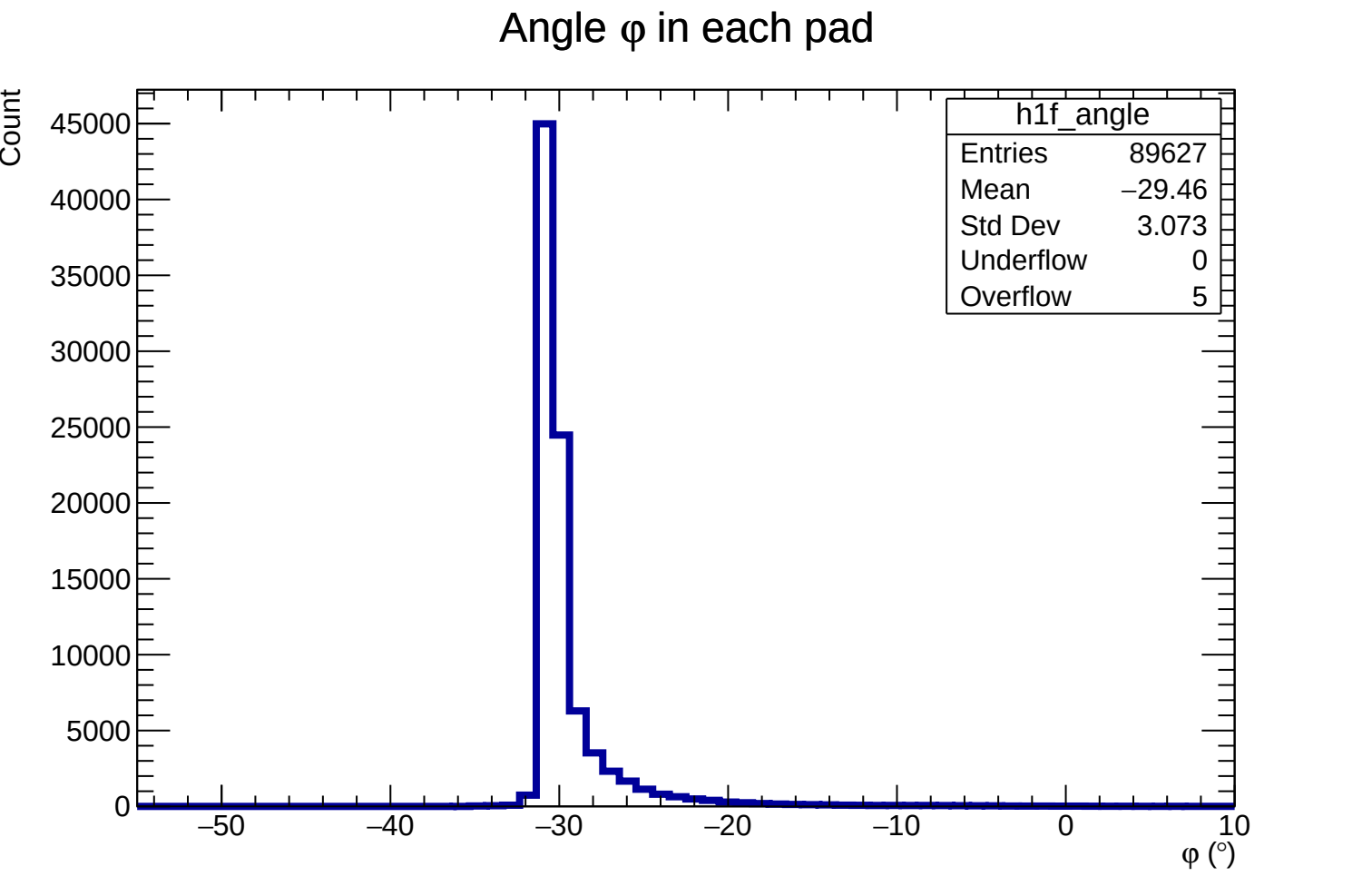
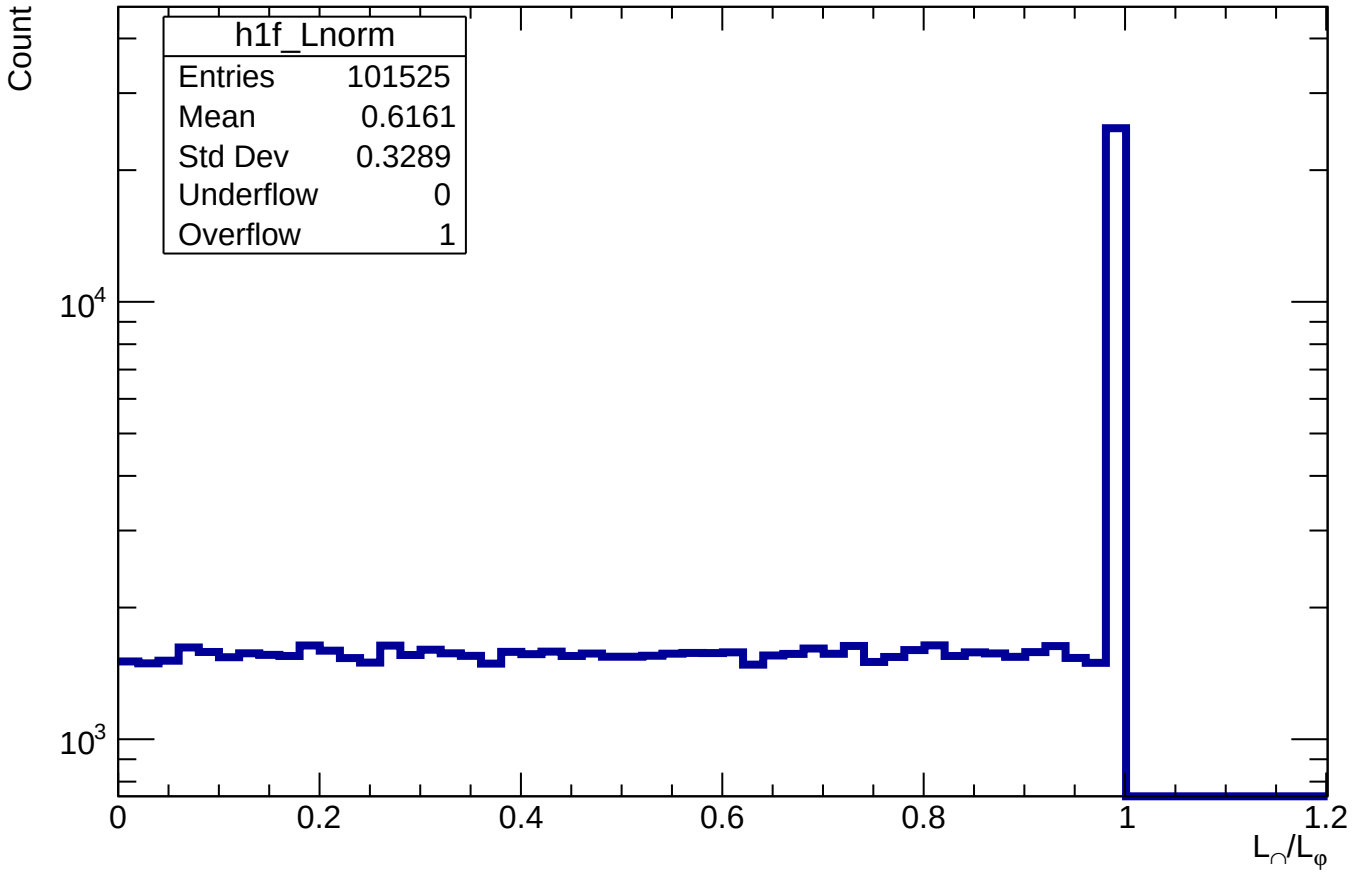

T_{max} of crossed pads
h1f_Tcross
Entries 89627
Mean 52.81
Std Dev 2.78
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

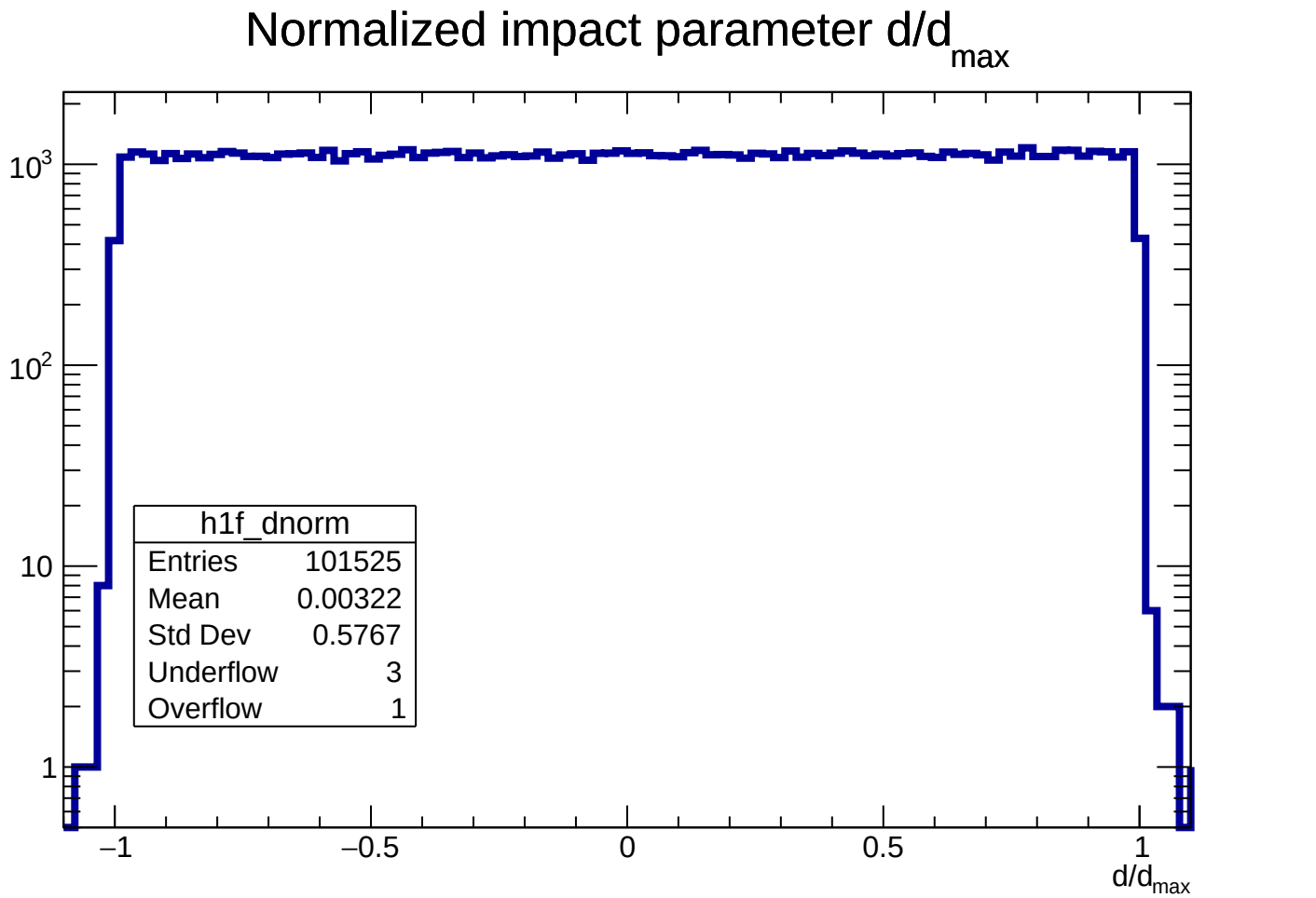

Number of crossed pads
h1f_Ncross
Entries 1845
Mean 48.58
Std Dev 2.573
Underflow 0
Overflow 0
Count
0
100
200
300
400
500
15
20
25
30
35
40
45
50
55
60
# of crossed pads

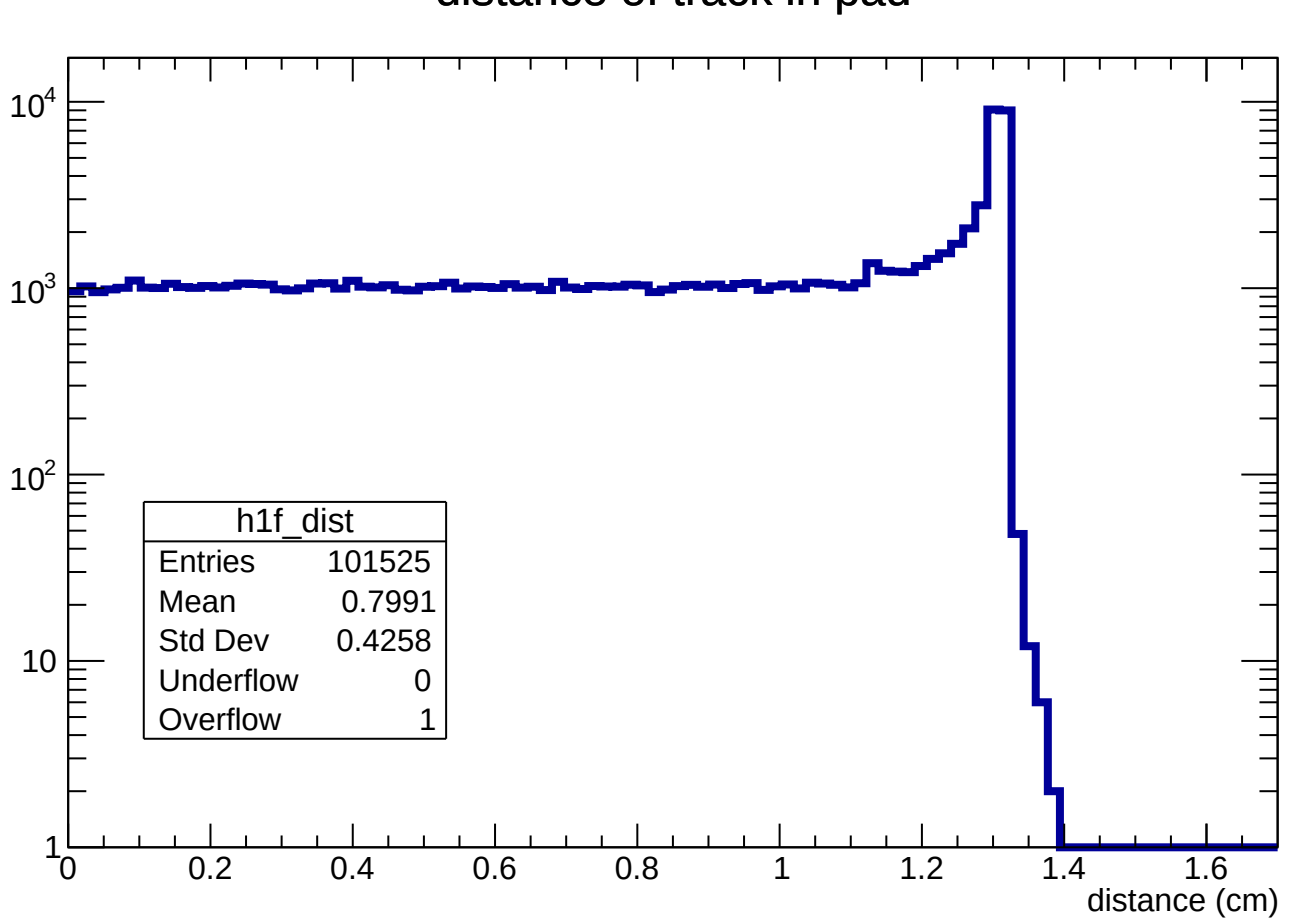

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 1845
Mean 1.745
Std Dev 15.84
Underflow 1
Overflow 0
Count
0
20
40
60
80
100
120
140
–150
–100
–50
0
50
100
150
difference (ADC count)

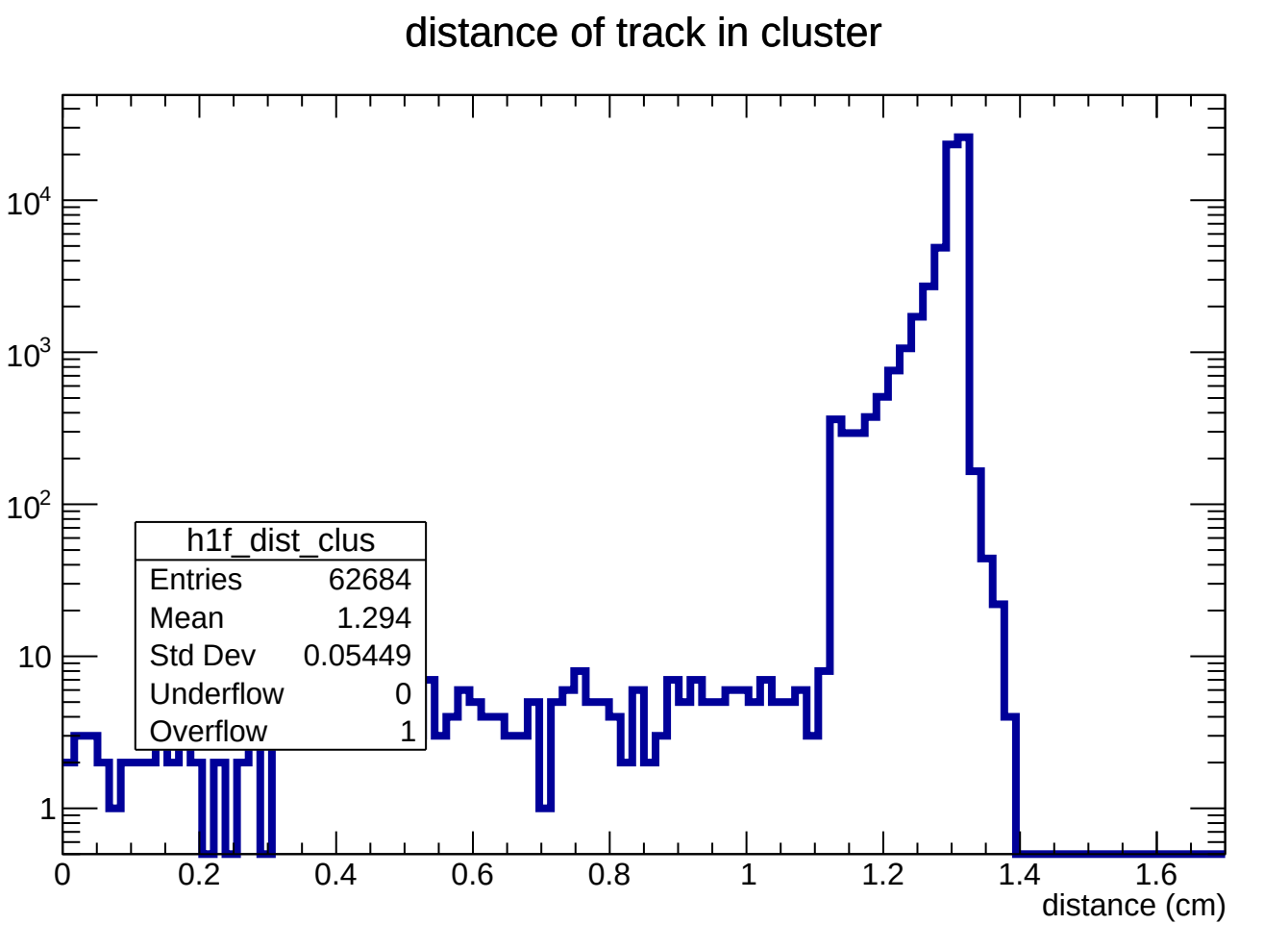

$Z_{file = 50mm} - Z_{computed}$
h1f_zdiff
Entries 89627
Mean 34.82
Std Dev 8.289
Underflow 0
Overflow 0
Count
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–150
–100
–50
0
50
100
150
difference (mm)

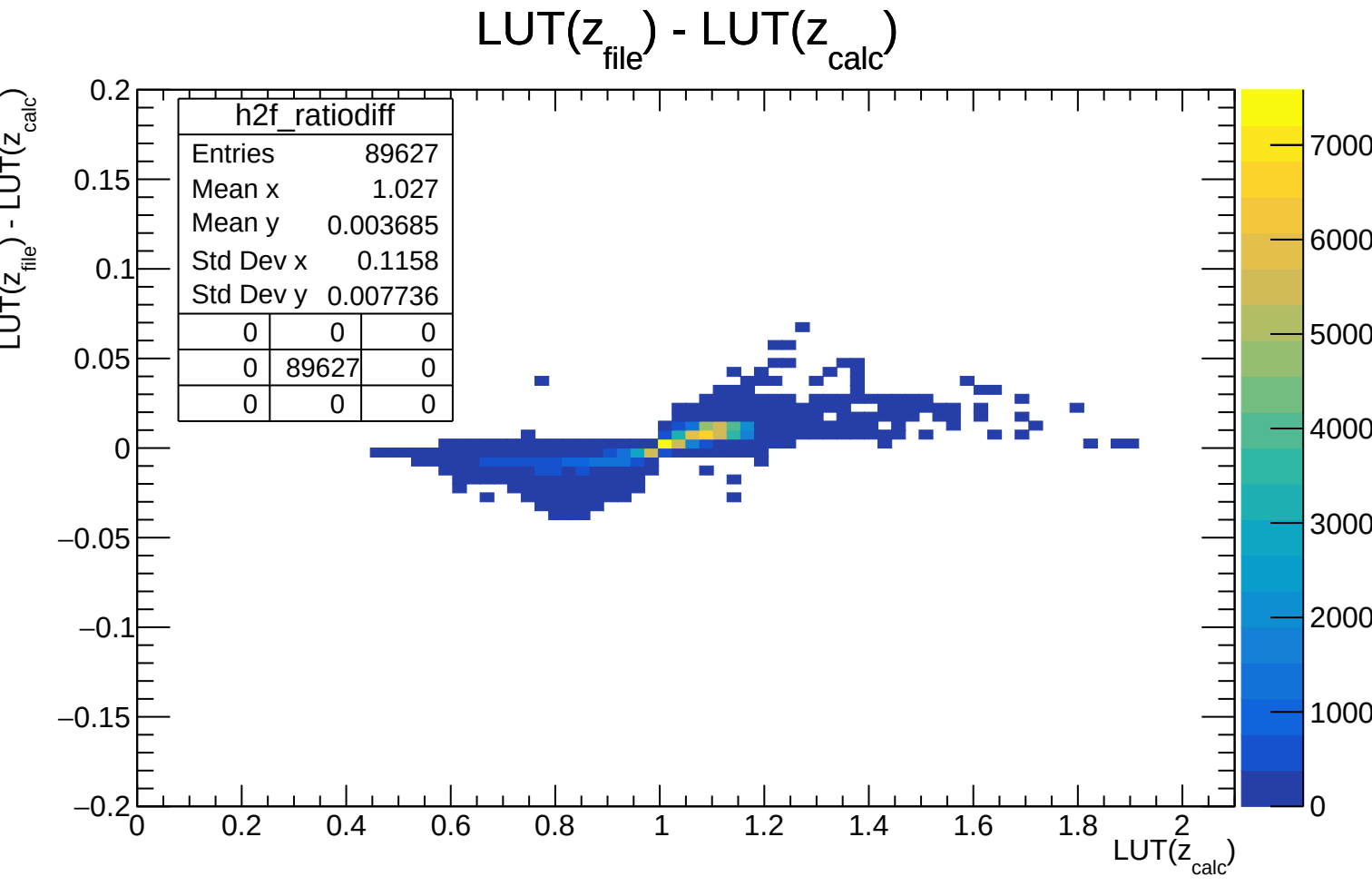

Angle φ in each pad
Count
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
h1f_angle
Entries 89627
Mean −29.46
Std Dev 3.073
Underflow 0
Overflow 5
−50
−40
−30
−20
−10
0
10
φ (°)

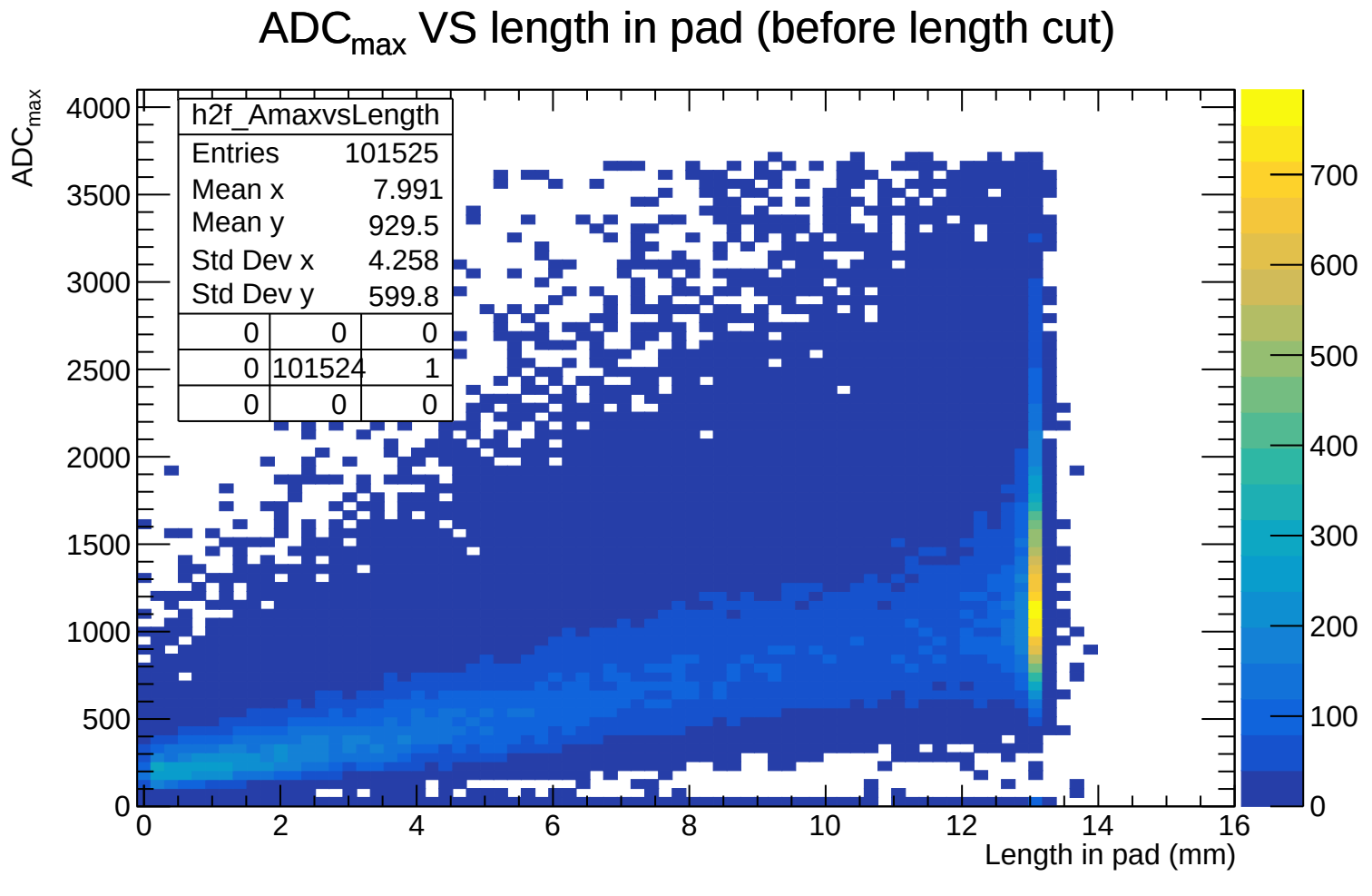

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 101525
Mean 0.6161
Std Dev 0.3289
Underflow 0
Overflow 1
Count
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
L_∩/L_φ

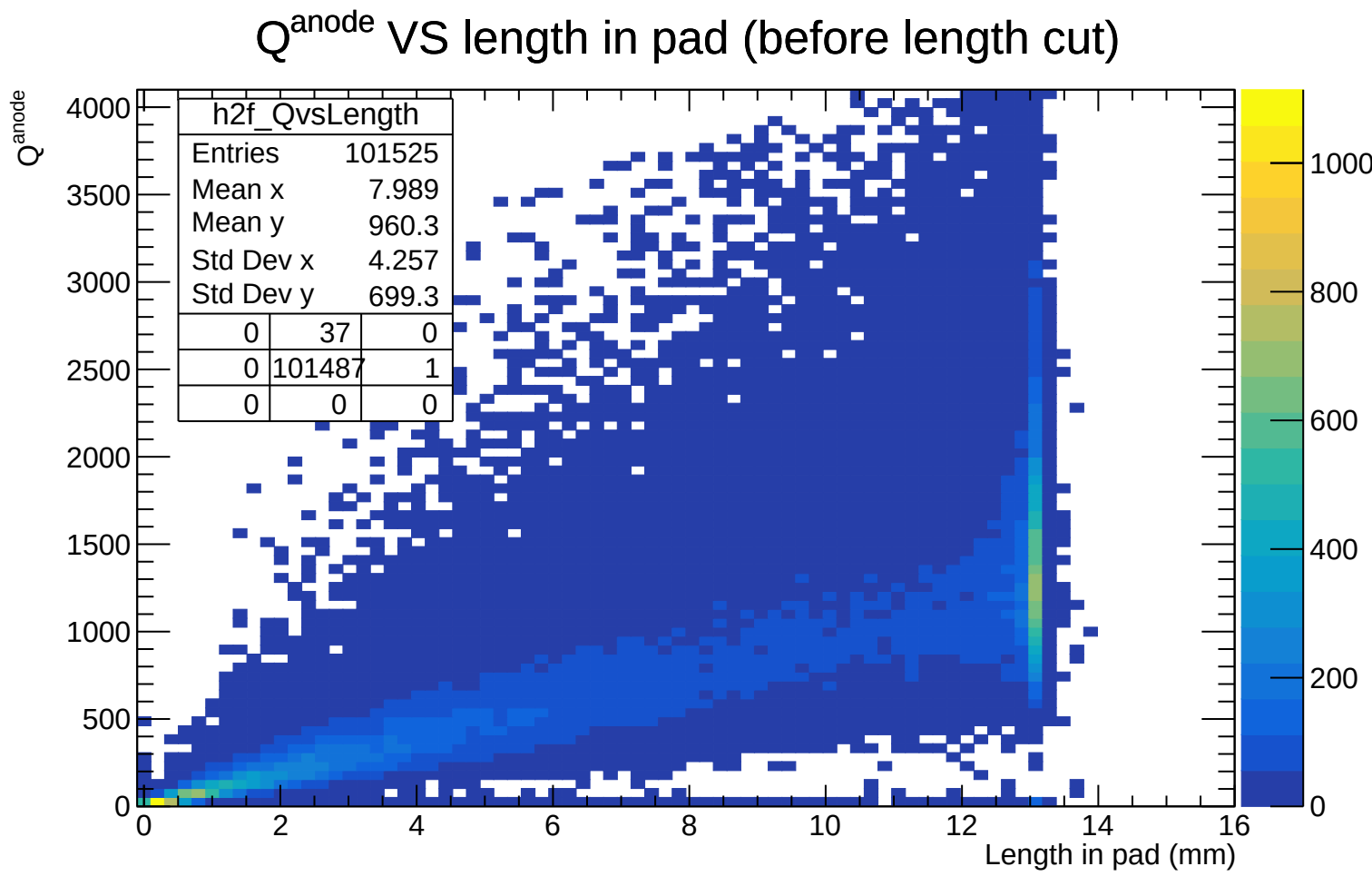

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 101525
Mean 0.00322
Std Dev 0.5767
Underflow 3
Overflow 1
–1
–0.5
0
0.5
1
d/d max

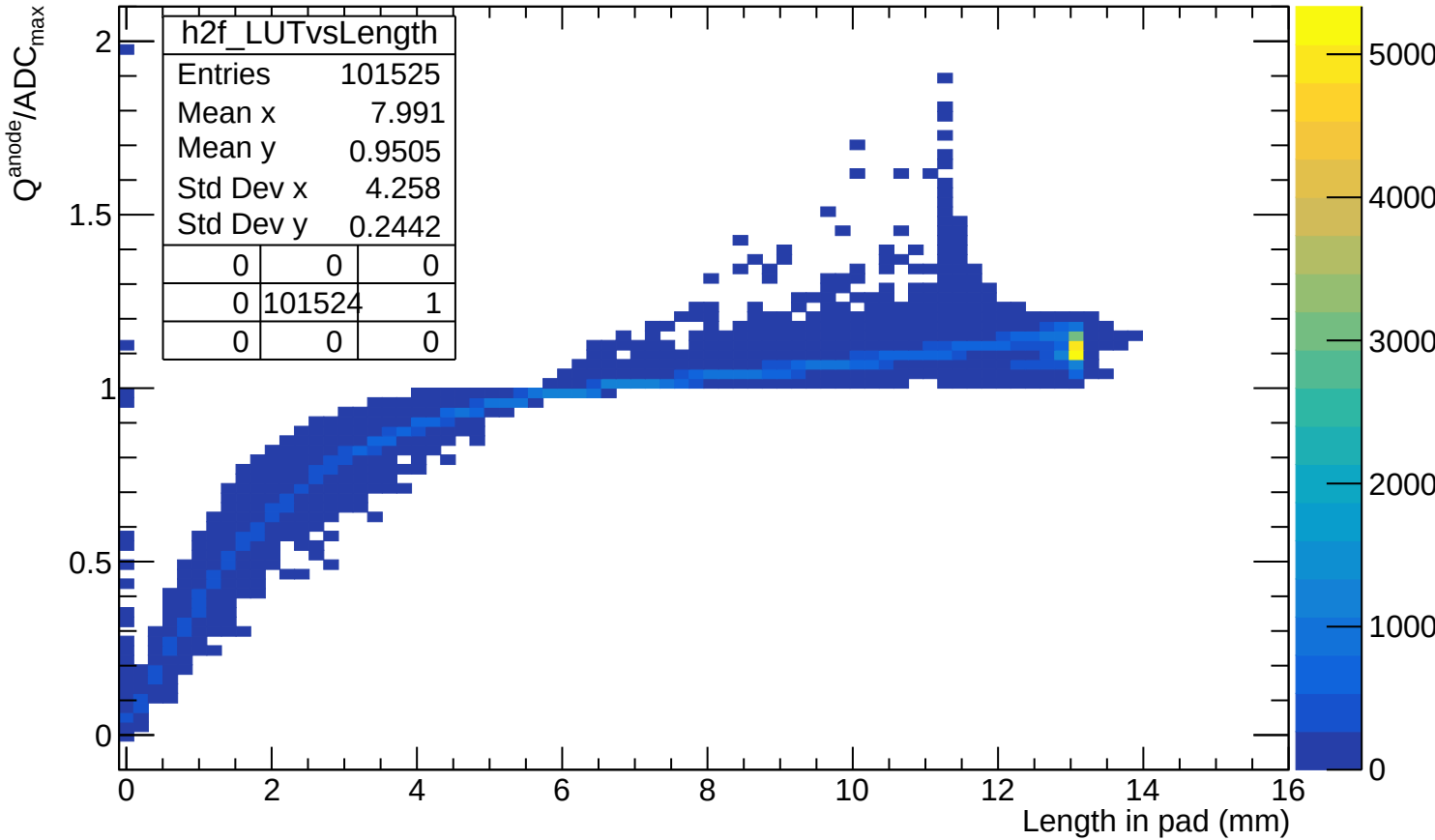

distance of track in pad
10^4
10^3
10^2
10
1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
distance (cm)
h1f_dist
Entries 101525
Mean 0.7991
Std Dev 0.4258
Underflow 0
Overflow 1

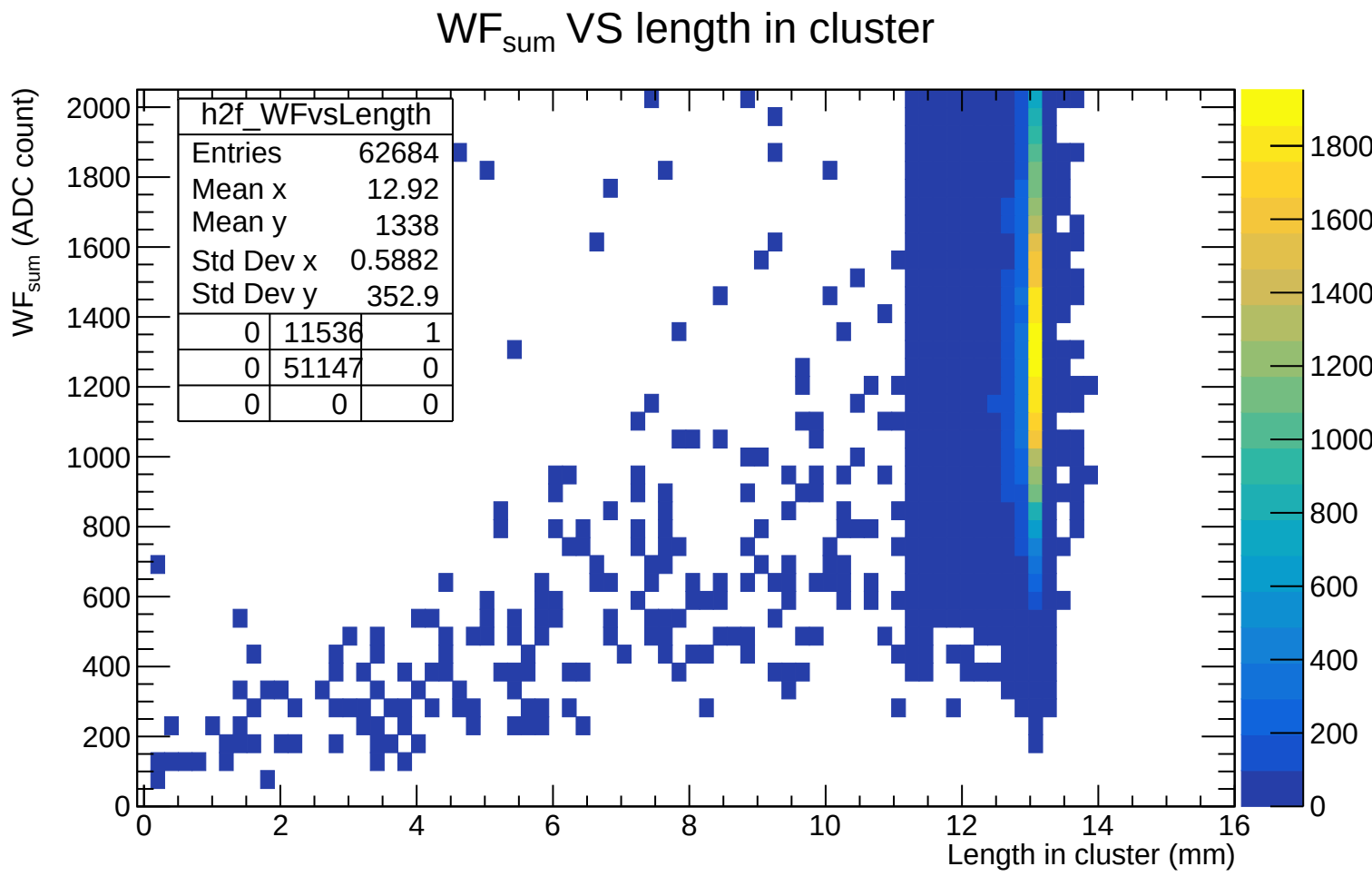

distance of track in cluster
h1f_dist_clus
Entries 62684
Mean 1.294
Std Dev 0.05449
Underflow 0
Overflow 1
distance (cm)

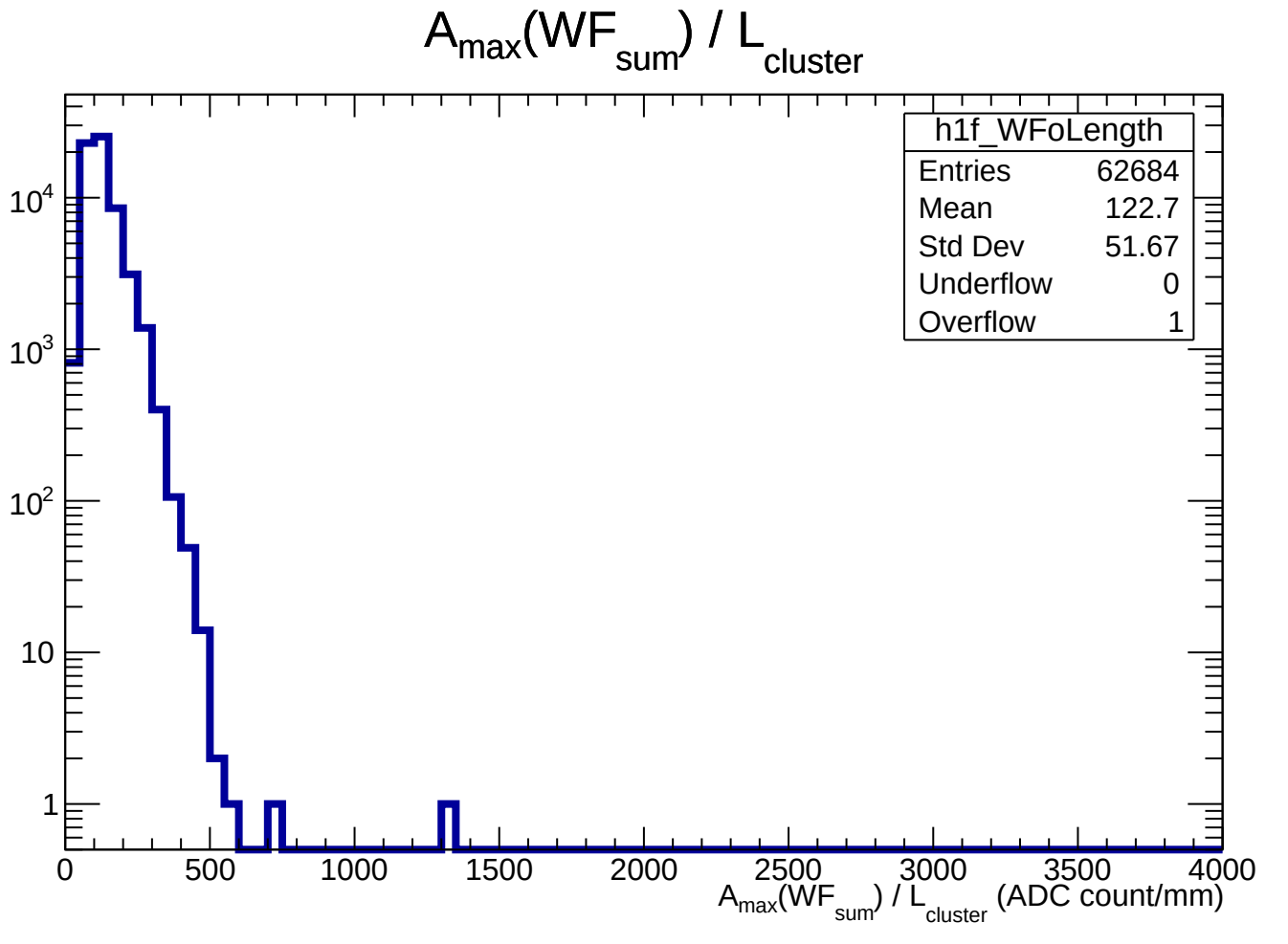

LUT(z_file) - LUT(z_calc)
h2f_ratiodiff
Entries 89627
Mean x 1.027
Mean y 0.003685
Std Dev x 0.1158
Std Dev y 0.007736
0 0 0
0 89627 0
0 0 0
LUT(z_file) - LUT(z_calc)
LUT(z_calc)
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
7000
6000
5000
4000
3000
2000
1000
0

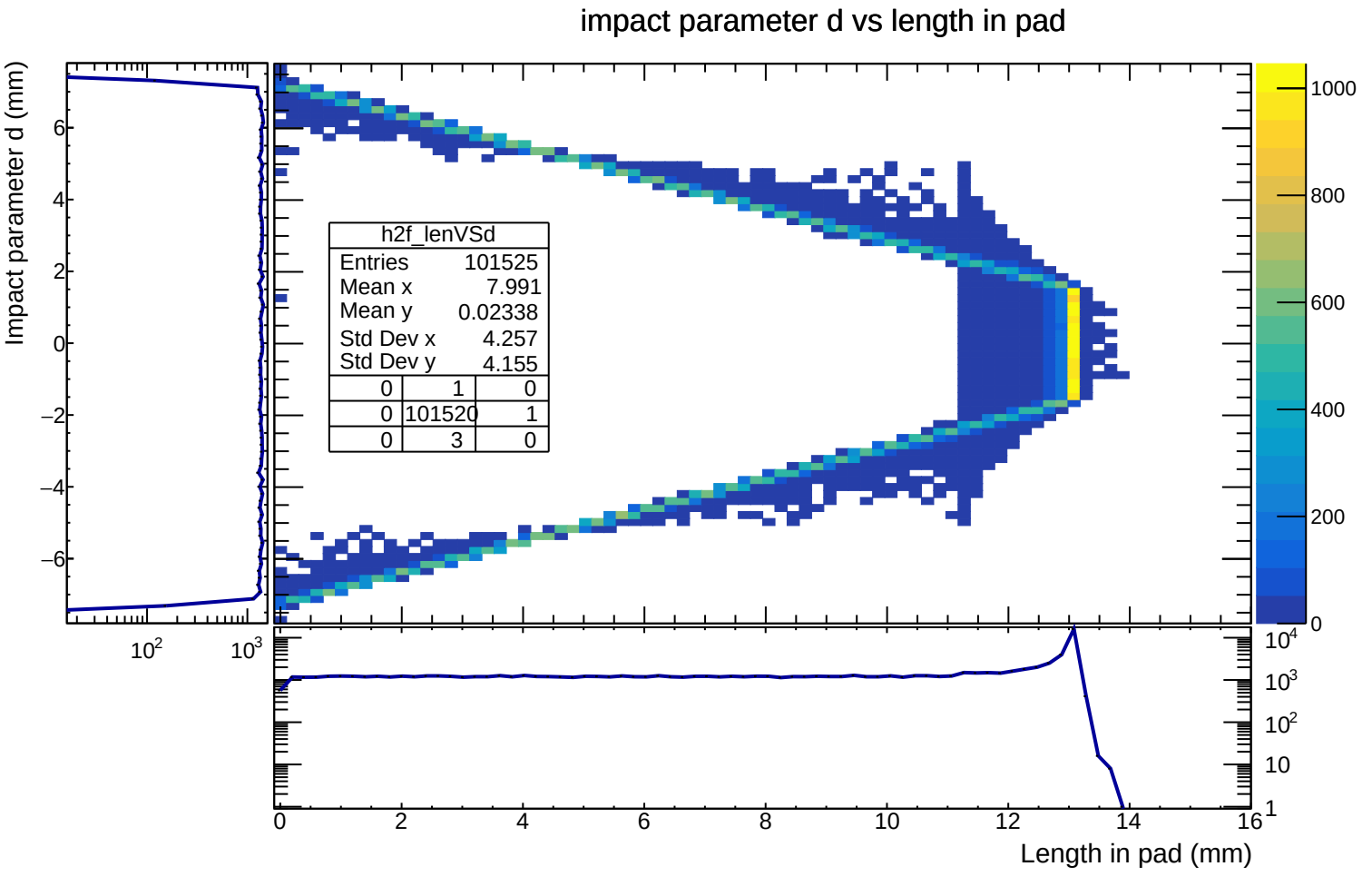

ADC$_{max}$ VS length in pad (before length cut)
ADC$_{max}$
Length in pad (mm)
h2f_AmaxvsLength
Entries 101525
Mean x 7.991
Mean y 929.5
Std Dev x 4.258
Std Dev y 599.8
0 0 0
0 101524 1
0 0 0
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 100 200 300 400 500 600 700


Q^anode VS length in pad (before length cut)
Q^anode
Length in pad (mm)
h2f_QvsLength
Entries 101525
Mean x 7.989
Mean y 960.3
Std Dev x 4.257
Std Dev y 699.3
0 37 0
0 101487 1
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


Q^anode/ADC_max VS length in pad (before length cut)
h2f_LUTvsLength
Entries 101525
Mean x 7.991
Mean y 0.9505
Std Dev x 4.258
Std Dev y 0.2442
0 0 0
0 101524 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
4000
5000


WF_sum VS length in cluster
h2f_WFvsLength
Entries 62684
Mean x 12.92
Mean y 1338
Std Dev x 0.5882
Std Dev y 352.9
0 11536 1
0 51147 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


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 62684
Mean 122.7
Std Dev 51.67
Underflow 0
Overflow 1
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 101525
Mean x 7.991
Mean y 0.02338
Std Dev x 4.257
Std Dev y 4.155
0 1 0
0 101520 1
0 3 0