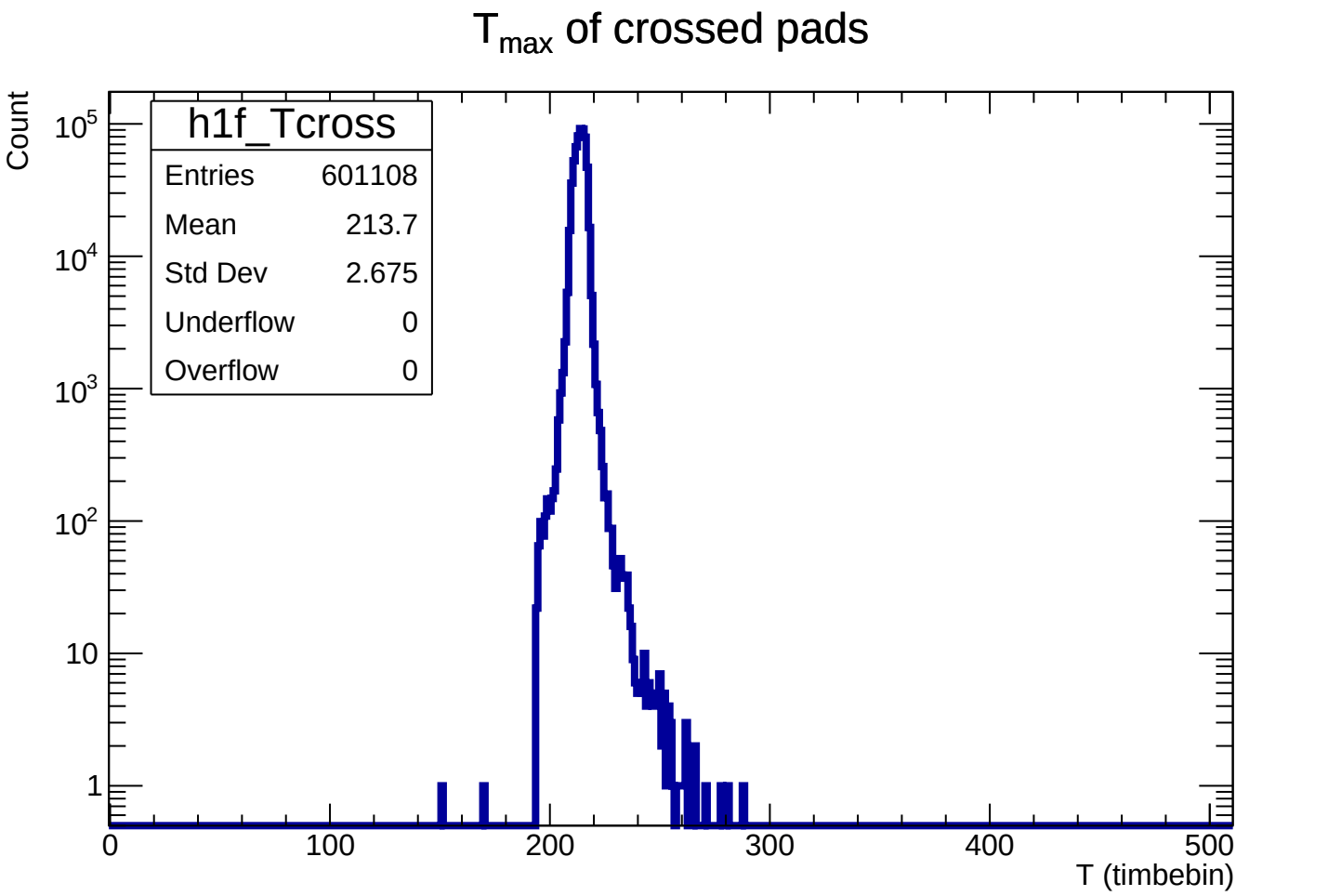
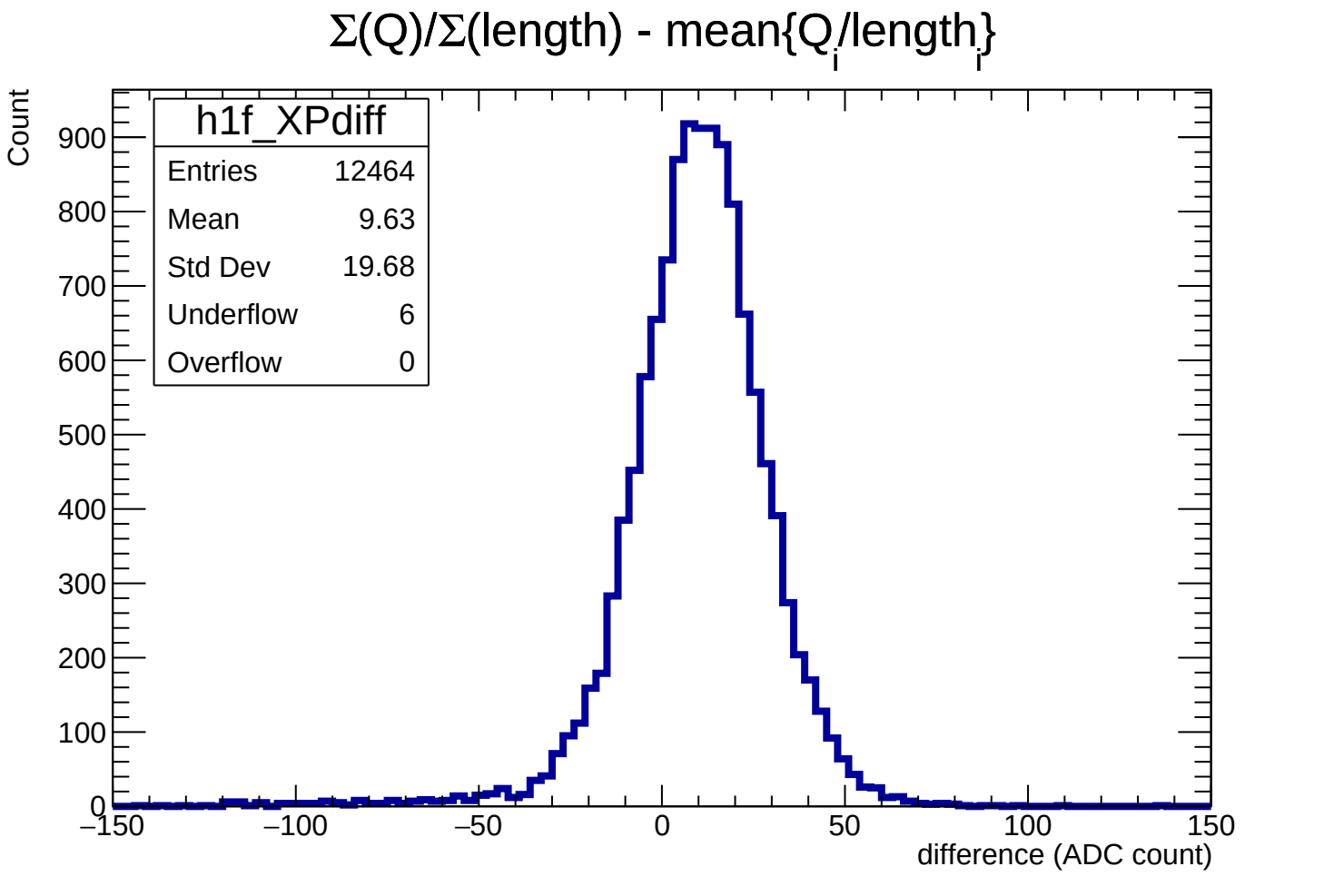
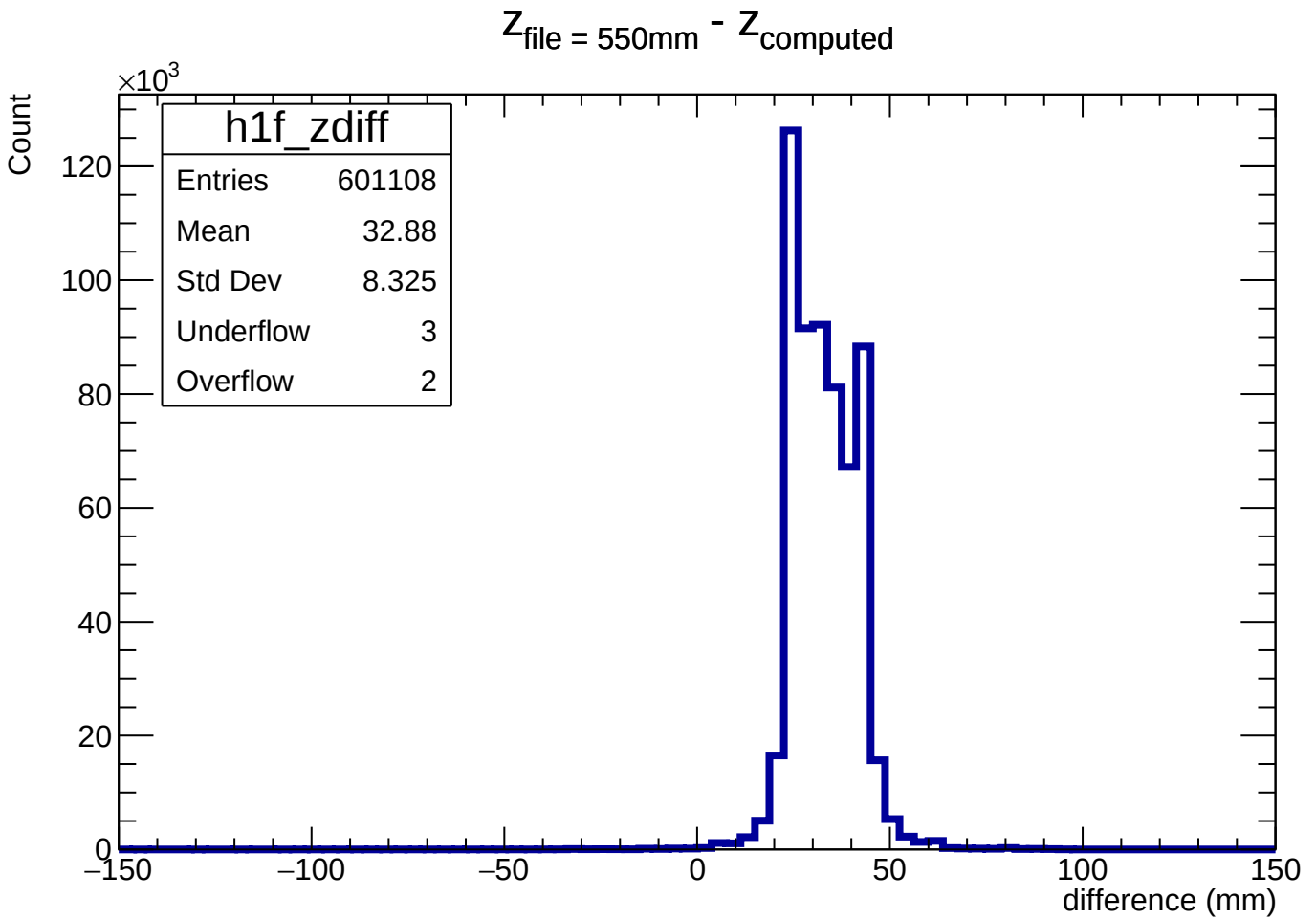
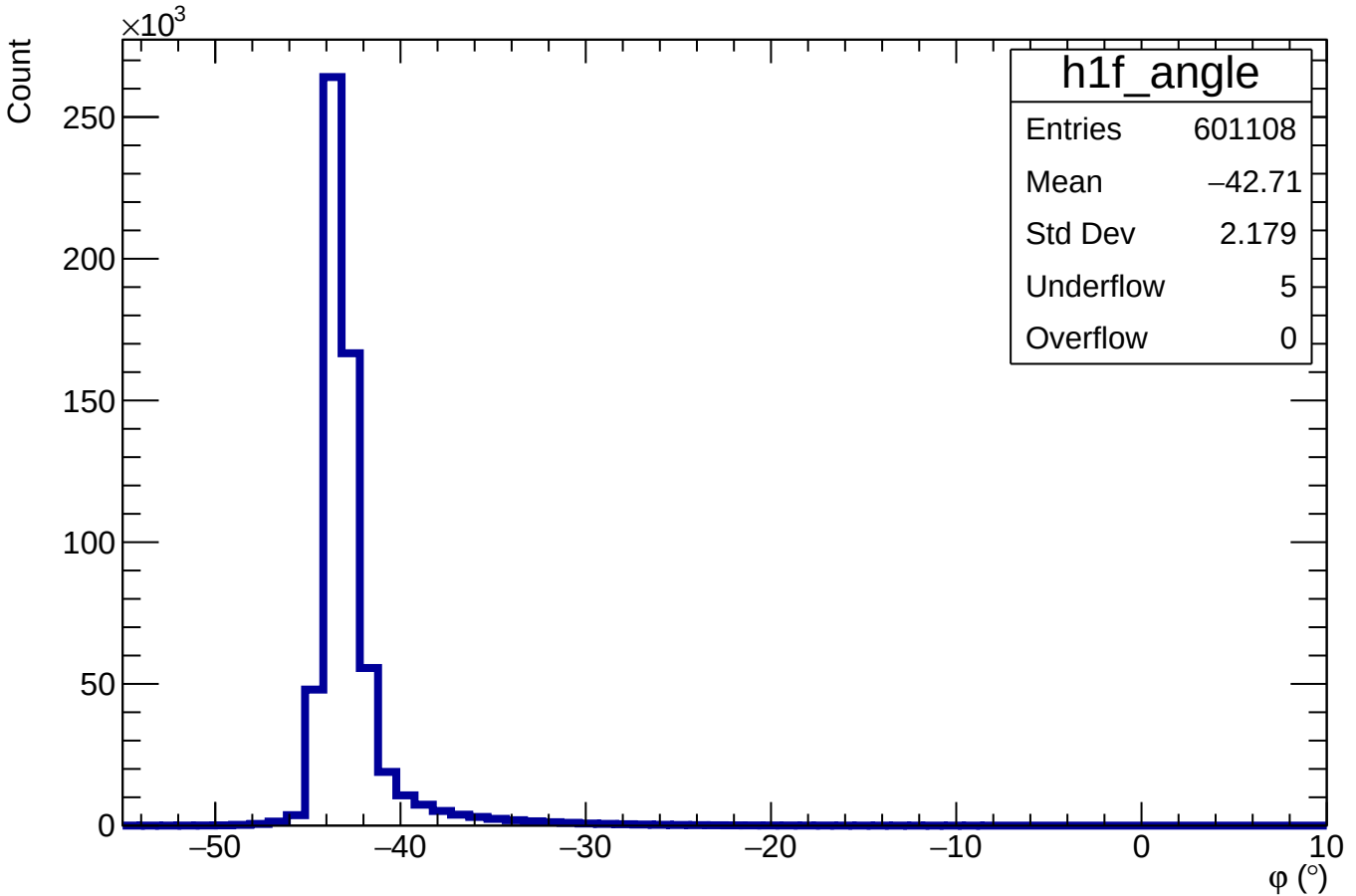
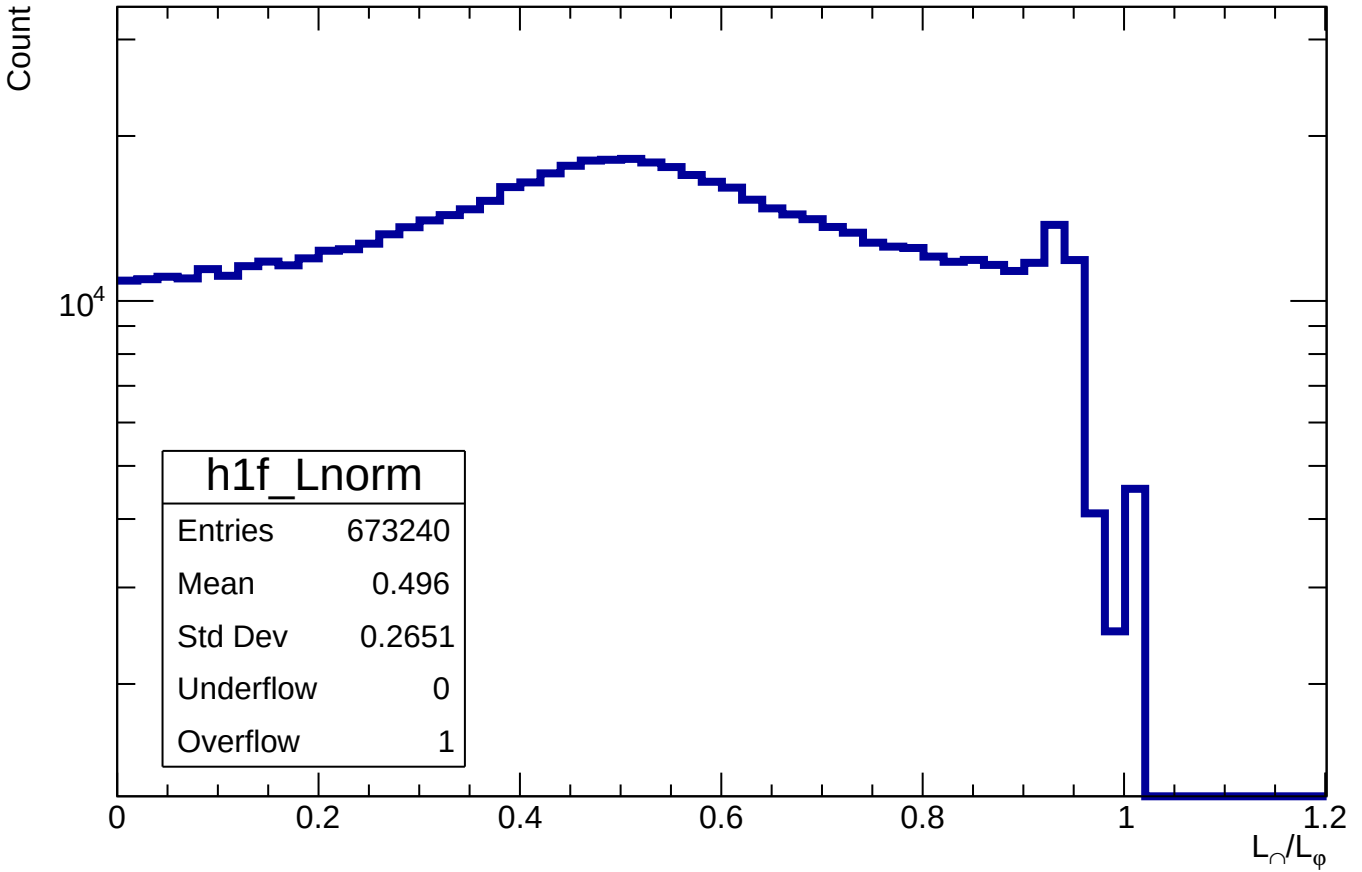
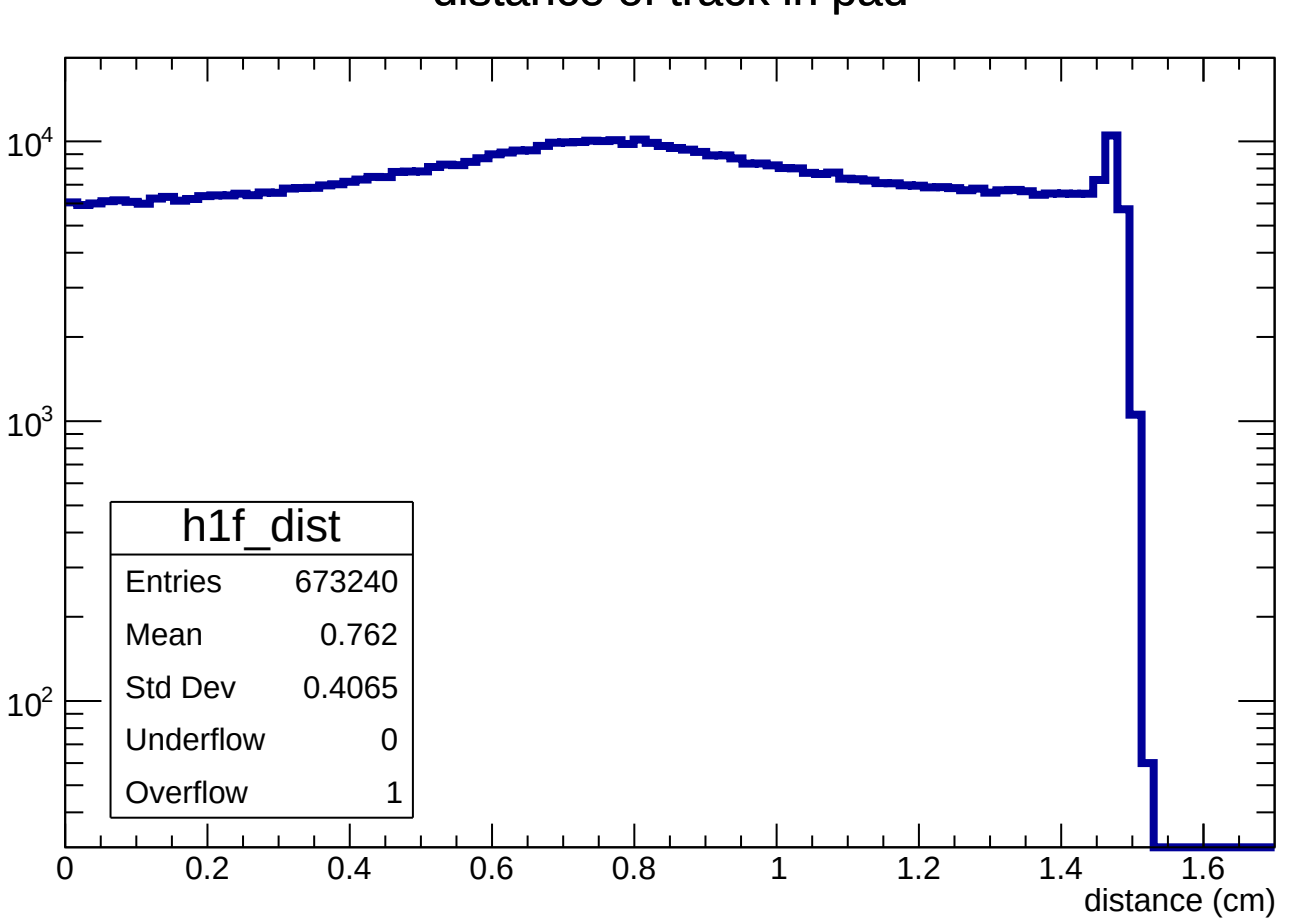

T_{max} of crossed pads
h1f_Tcross
Entries 601108
Mean 213.7
Std Dev 2.675
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

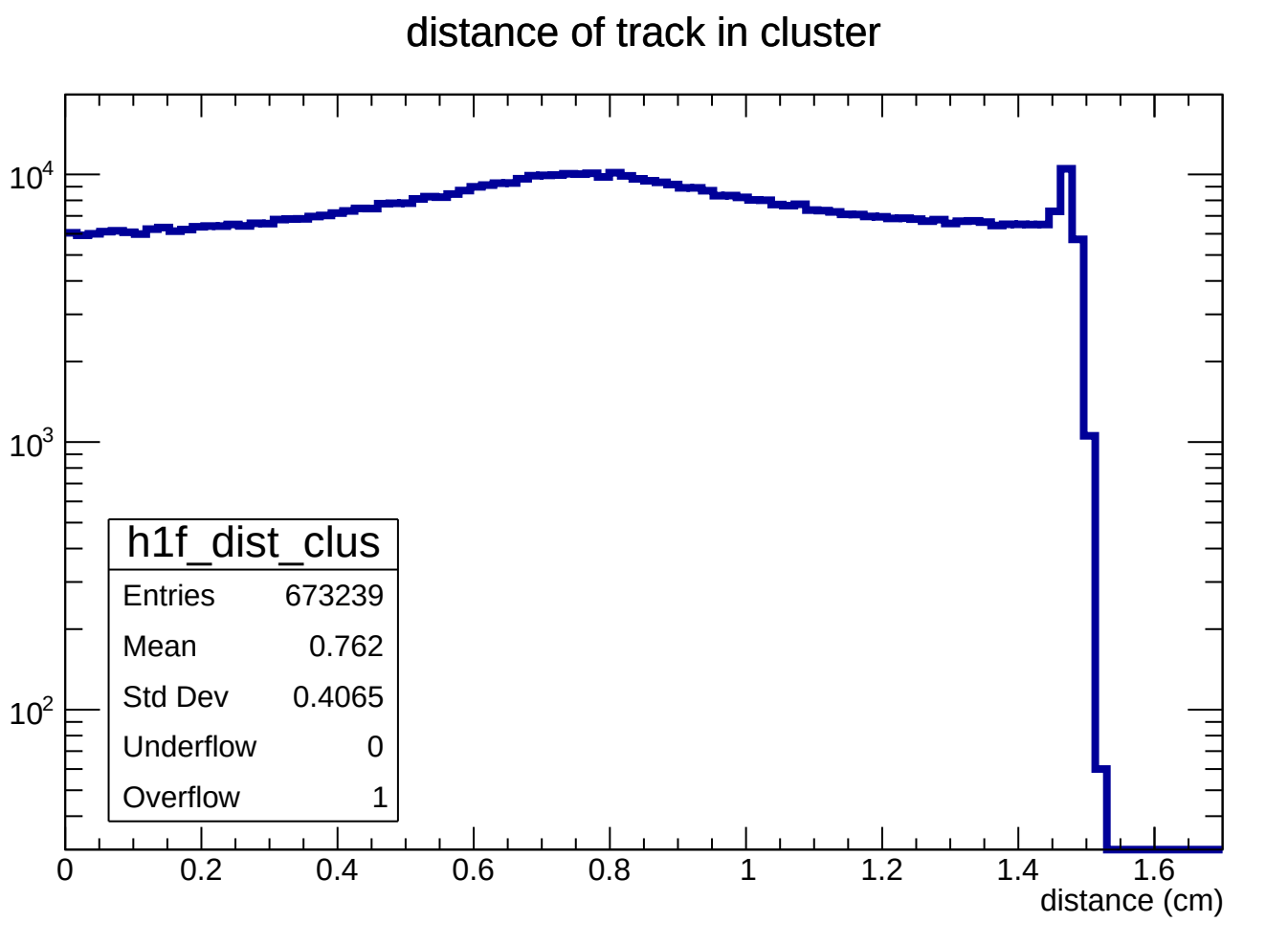

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 12464
Mean 9.63
Std Dev 19.68
Underflow 6
Overflow 0
Count
900
800
700
600
500
400
300
200
100
0
–150
–100
–50
0
50
100
150
difference (ADC count)

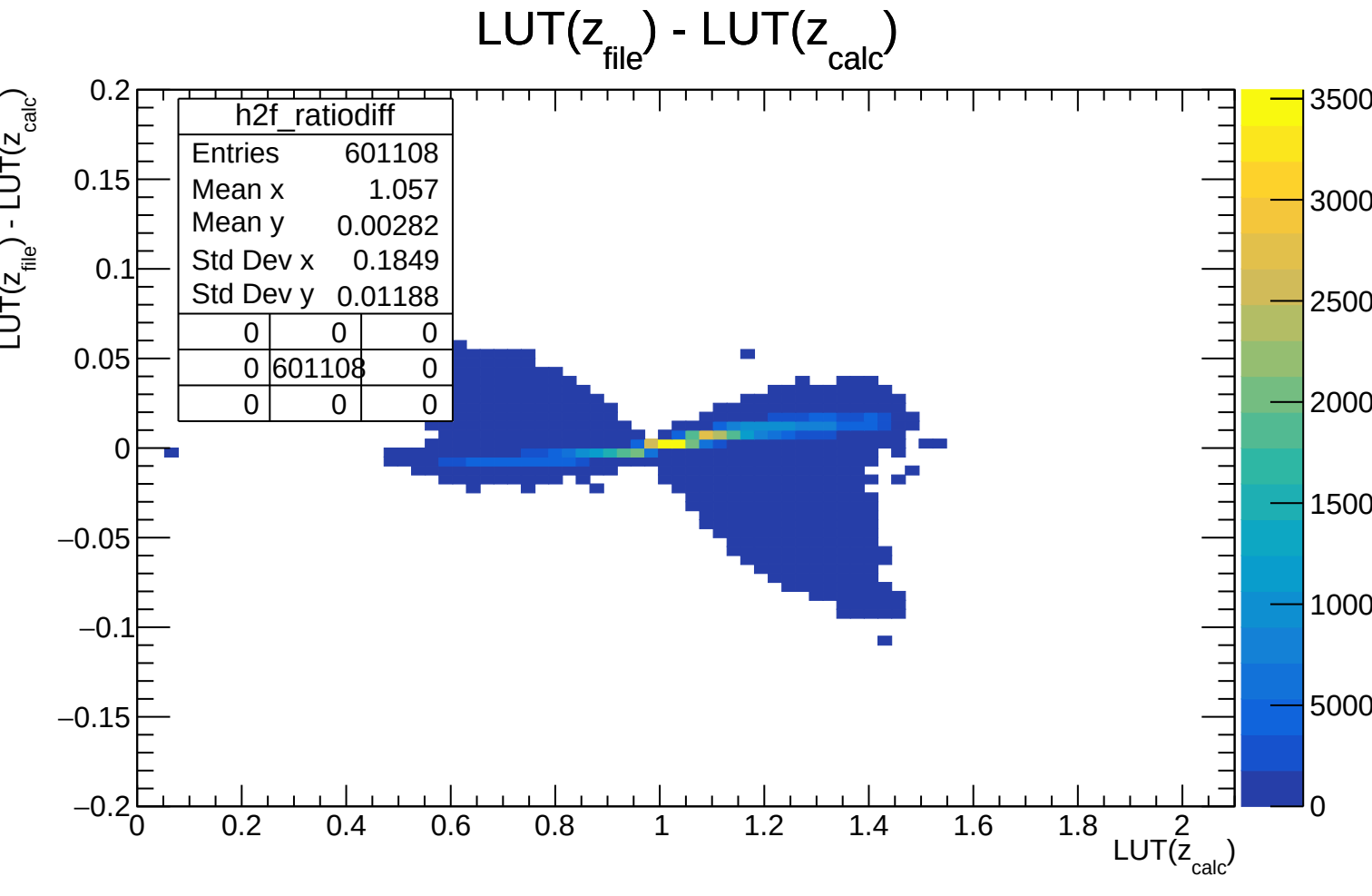

$z_{file = 550mm} - z_{computed}$
$\times 10^3$
Count
h1f_zdiff
Entries 601108
Mean 32.88
Std Dev 8.325
Underflow 3
Overflow 2
120
100
80
60
40
20
0
−150
−100
−50
0
50
100
150
difference (mm)

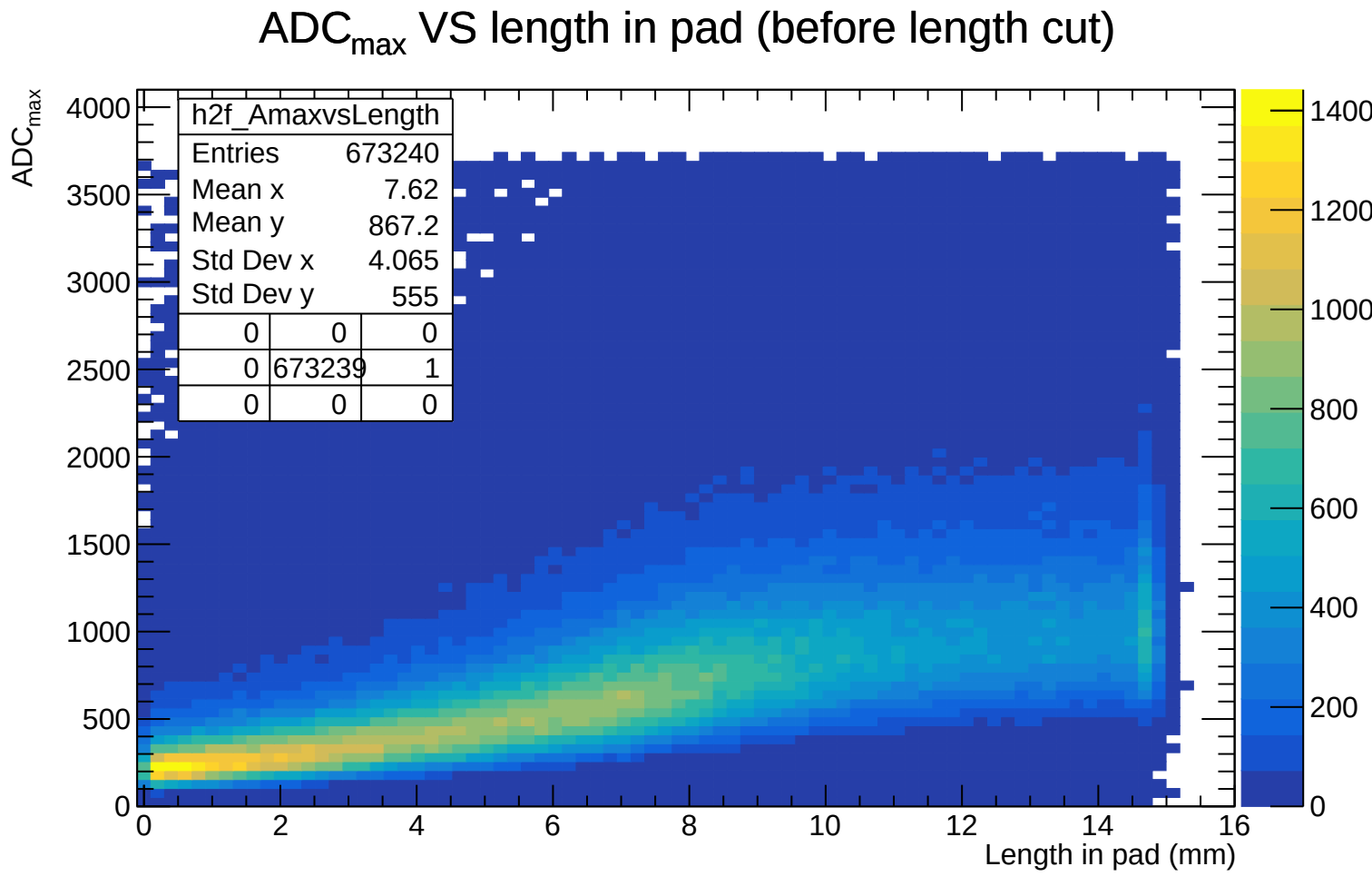

Angle φ in each pad
×10^3
Count
250
200
150
100
50
0
h1f_angle
Entries 601108
Mean –42.71
Std Dev 2.179
Underflow 5
Overflow 0
–50
–40
–30
–20
–10
0
10
φ (°)

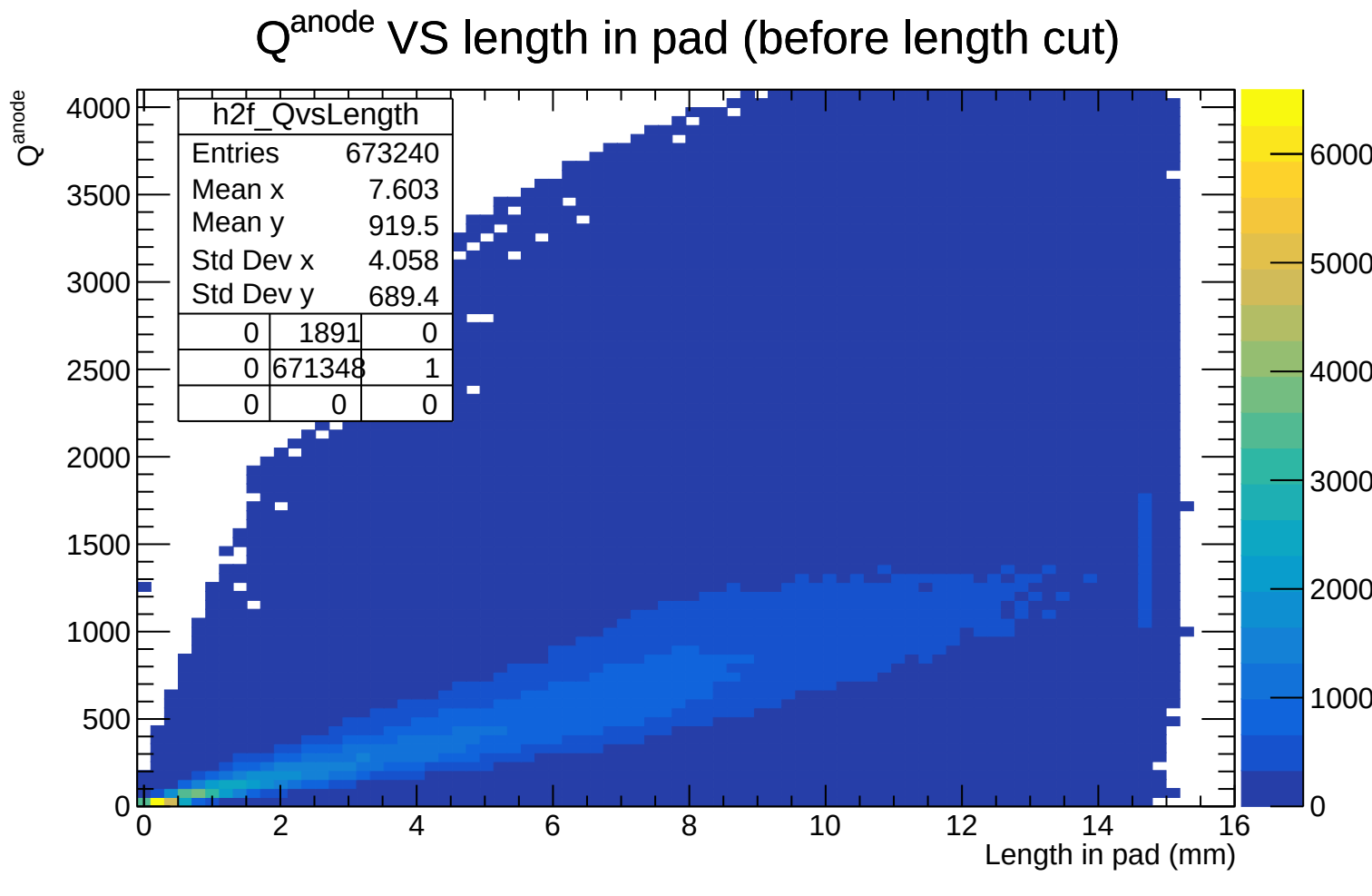

Length in pad normalized to maximum length in pad for a given φ
Count
10^4
h1f_Lnorm
Entries 673240
Mean 0.496
Std Dev 0.2651
Underflow 0
Overflow 1
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

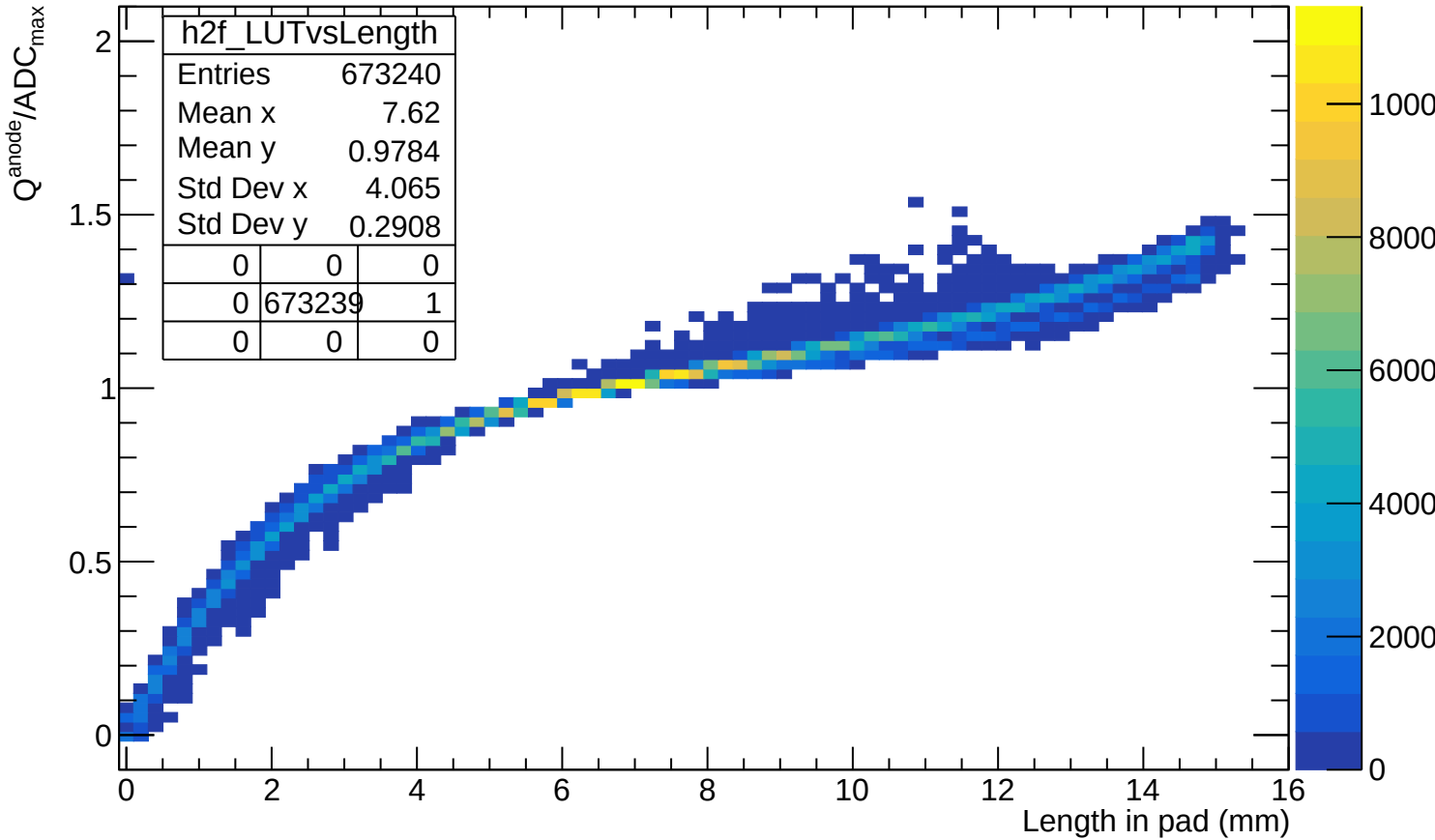

distance of track in pad
10^4
10^3
10^2
h1f_dist
Entries 673240
Mean 0.762
Std Dev 0.4065
Underflow 0
Overflow 1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
distance (cm)

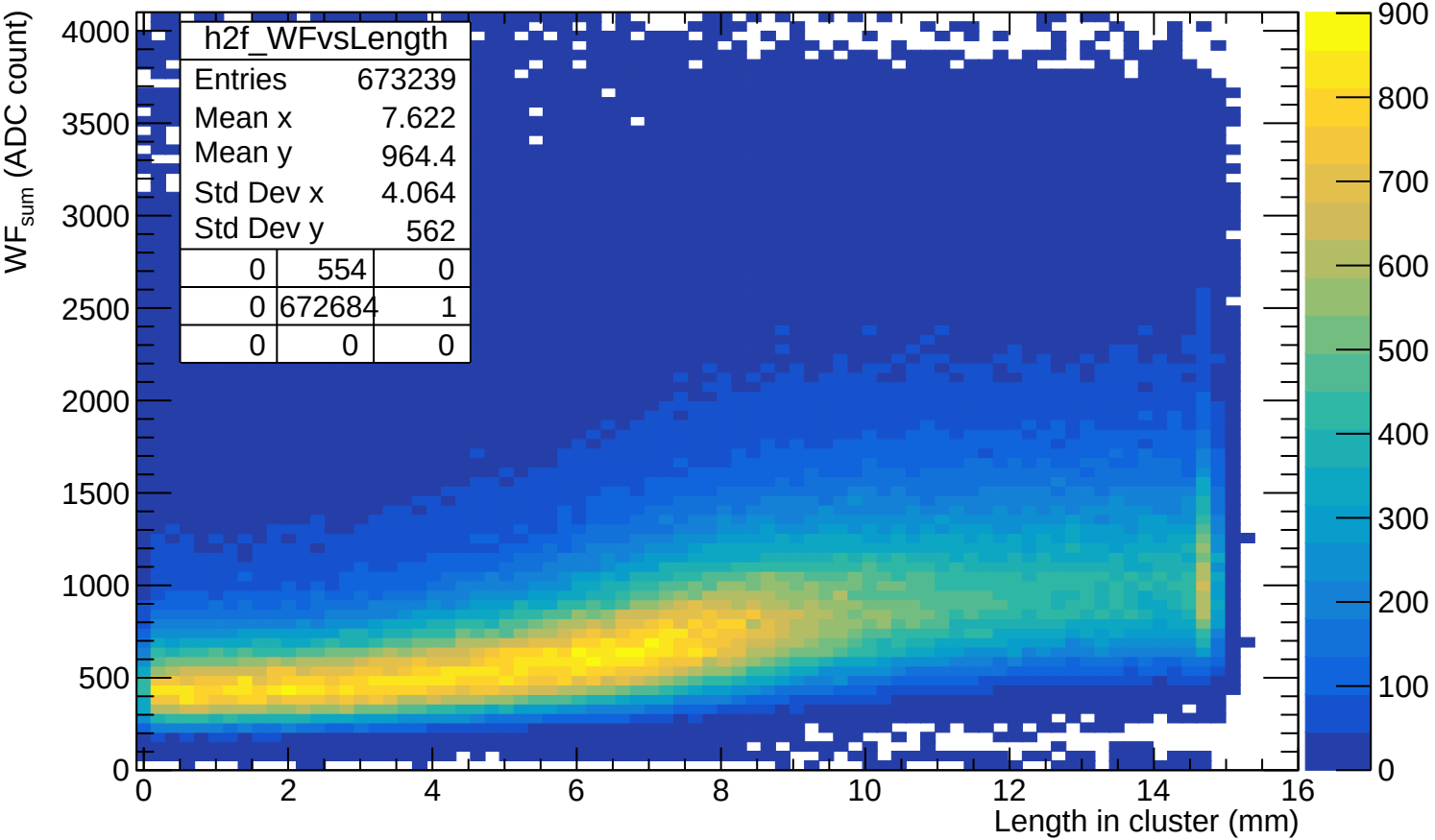

distance of track in cluster
10^4
10^3
10^2
h1f_dist_clus
Entries 673239
Mean 0.762
Std Dev 0.4065
Underflow 0
Overflow 1
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
distance (cm)

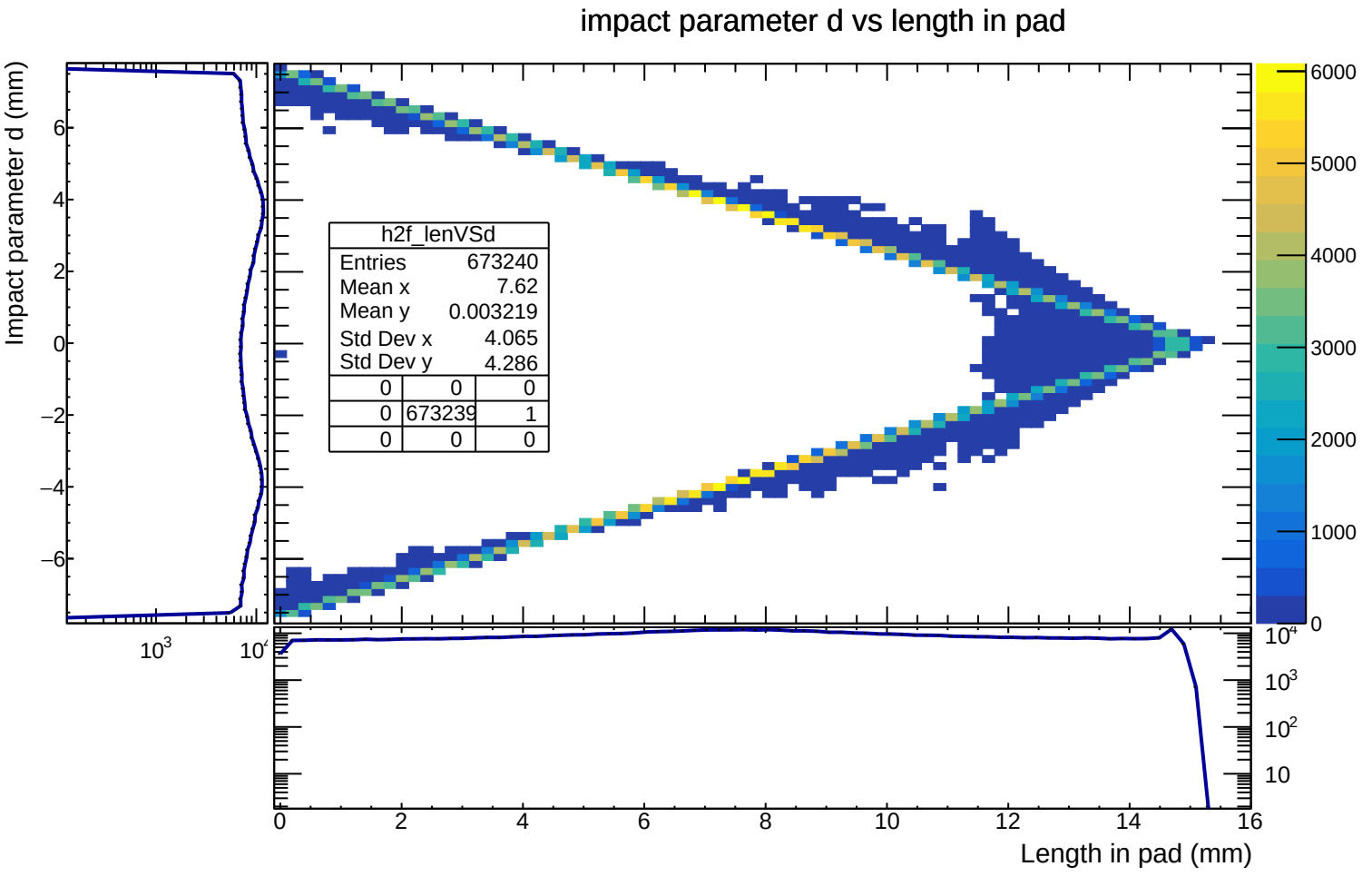

LUT(z_file) - LUT(z_calc)
h2f_ratiodiff
Entries 601108
Mean x 1.057
Mean y 0.00282
Std Dev x 0.1849
Std Dev y 0.01188
0 0 0
0 601108 0
0 0 0
LUT(z_file) - LUT(z_calc)
LUT(z_calc)
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
3500
3000
2500
2000
1500
1000
5000
0


ADC$_{max}$ VS length in pad (before length cut)
ADC$_{max}$
Length in pad (mm)
h2f_AmaxvsLength
Entries 673240
Mean x 7.62
Mean y 867.2
Std Dev x 4.065
Std Dev y 555
0 0 0
0 673239 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
1200
1400


Q^anode VS length in pad (before length cut)
h2f_QvsLength
Entries 673240
Mean x 7.603
Mean y 919.5
Std Dev x 4.058
Std Dev y 689.4
0 1891 0
0 671348 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
2000
3000
4000
5000
6000


Q^anode/ADC_max VS length in pad (before length cut)
h2f_LUTvsLength
Entries 673240
Mean x 7.62
Mean y 0.9784
Std Dev x 4.065
Std Dev y 0.2908
0 0 0
0 673239 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
2000
4000
6000
8000
1000


WF_sum VS length in cluster
h2f_WFvsLength
Entries 673239
Mean x 7.622
Mean y 964.4
Std Dev x 4.064
Std Dev y 562
0 554 0
0 672684 1
0 0 0
WF_sum (ADC count)
Length in cluster (mm)
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
800
900


impact parameter d vs length in pad
Impact parameter d (mm)
Length in pad (mm)
h2f_lenVSd
Entries 673240
Mean x 7.62
Mean y 0.003219
Std Dev x 4.065
Std Dev y 4.286
0 0 0
0 673239 1
0 0 0