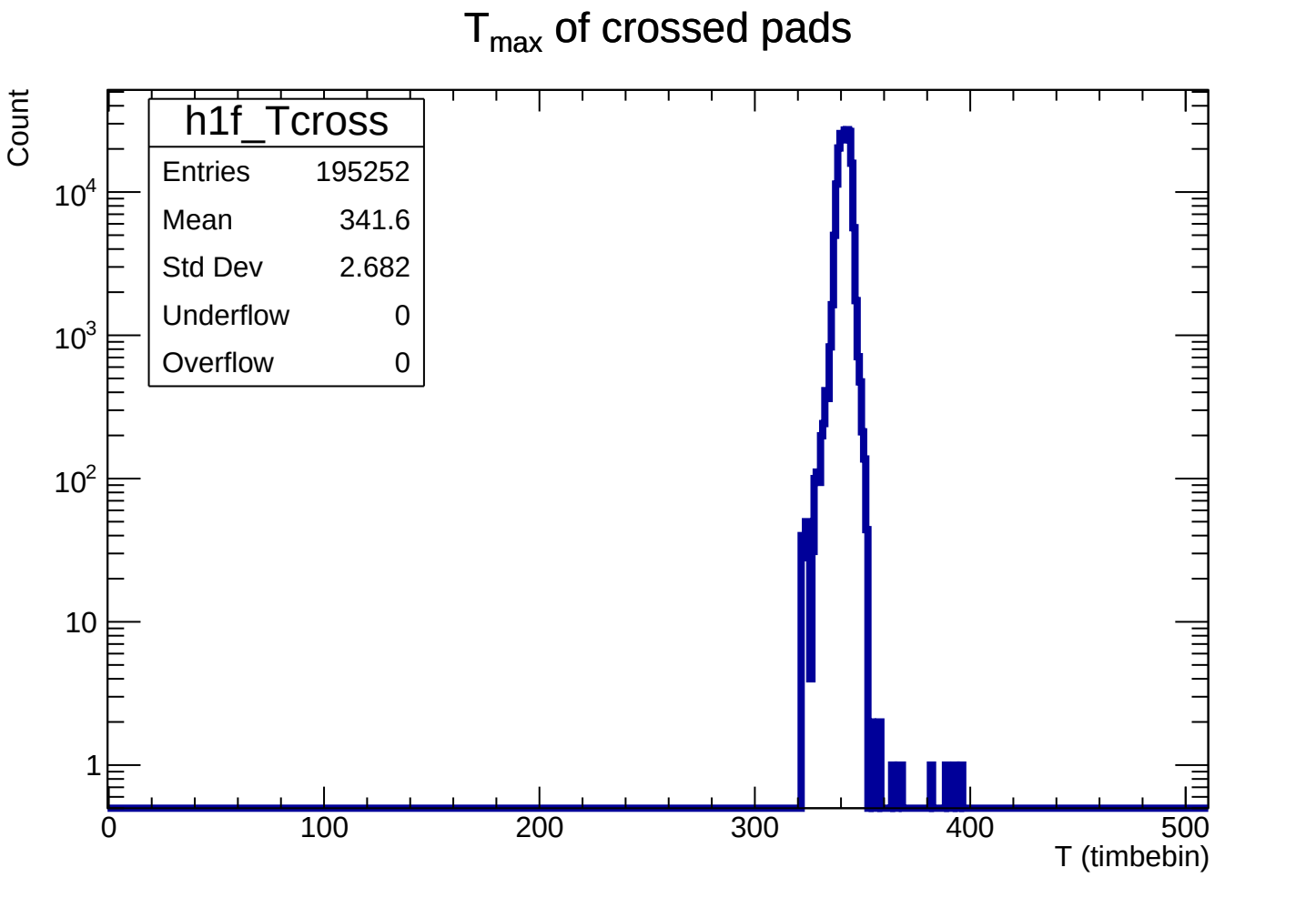
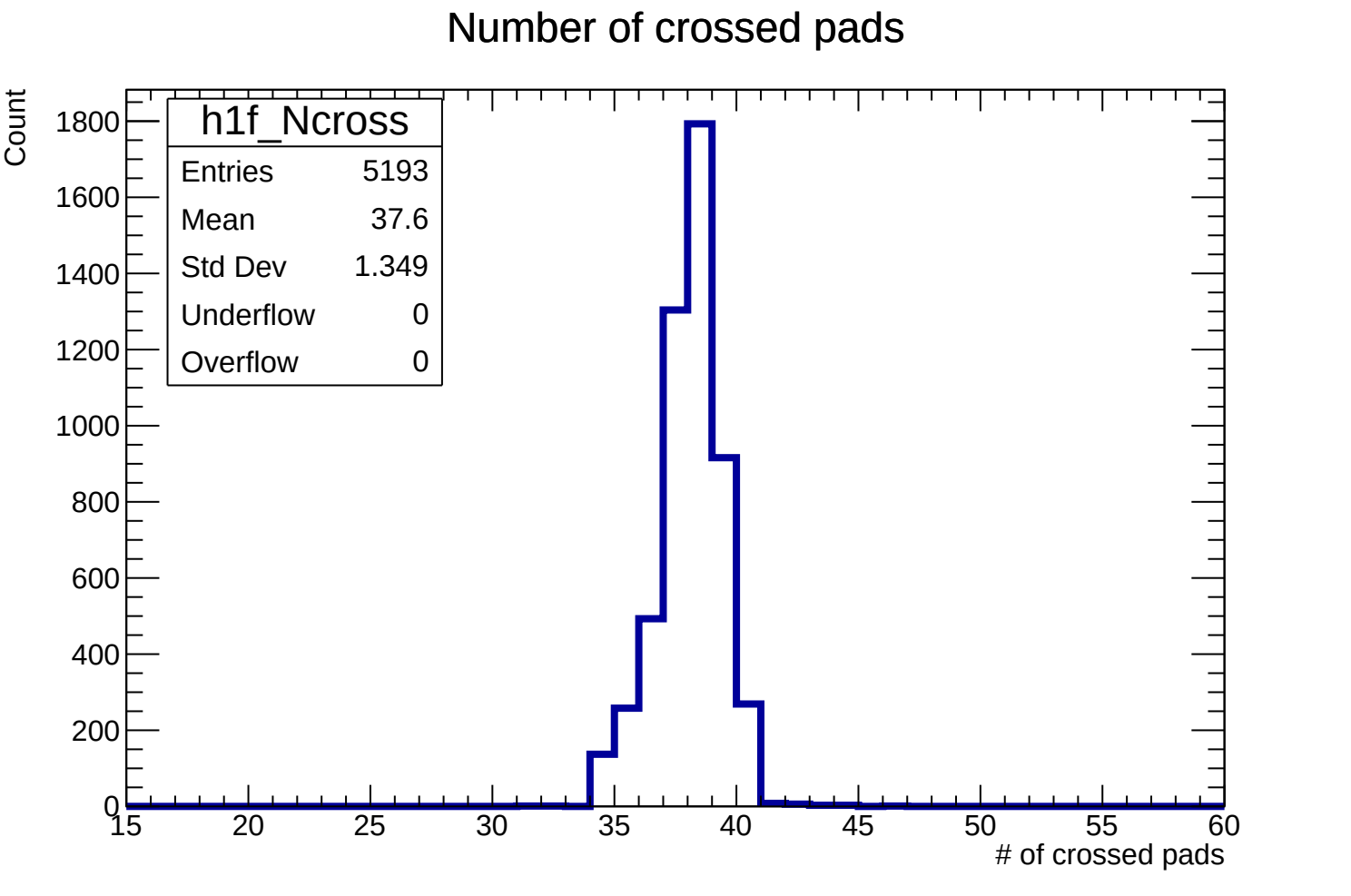
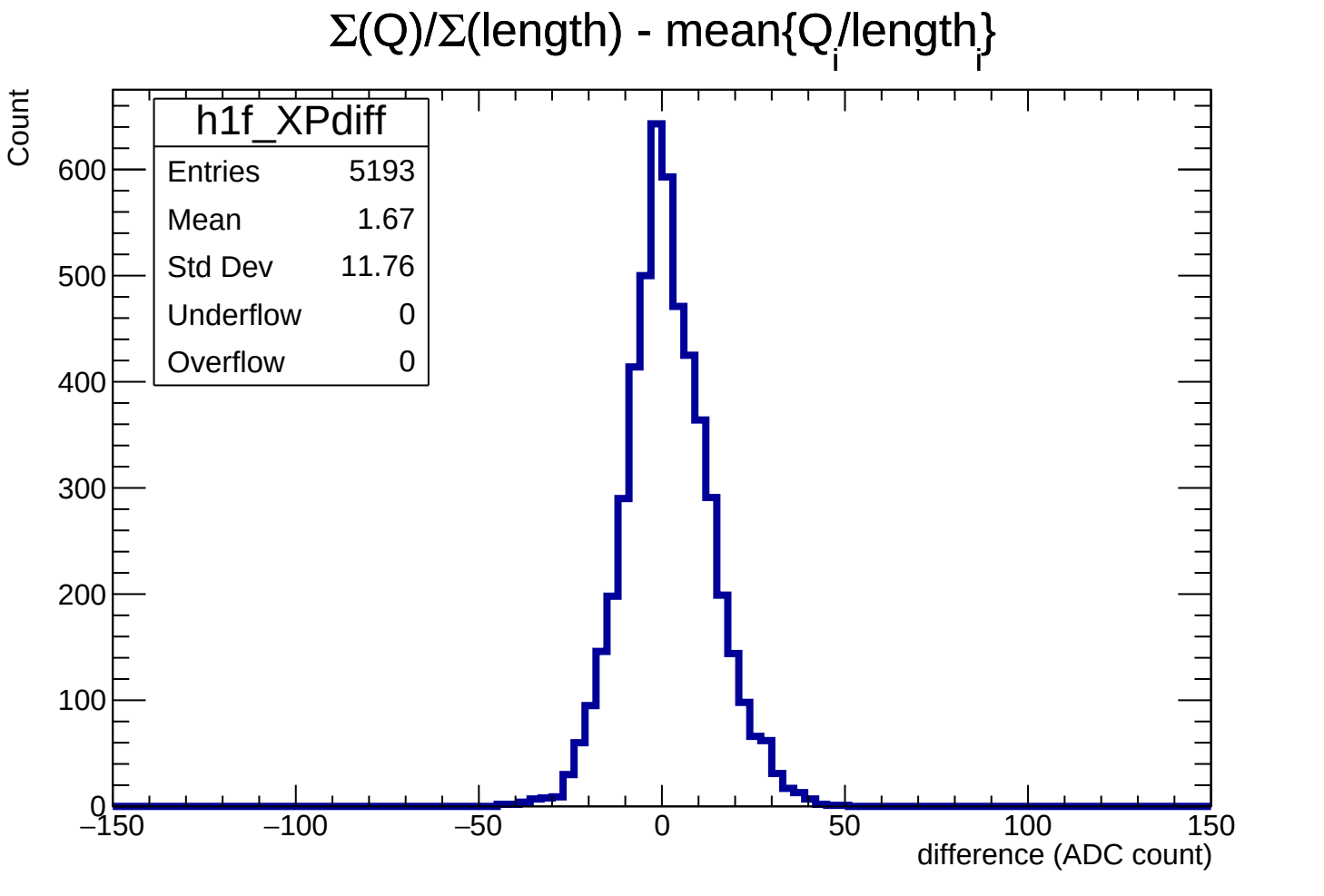
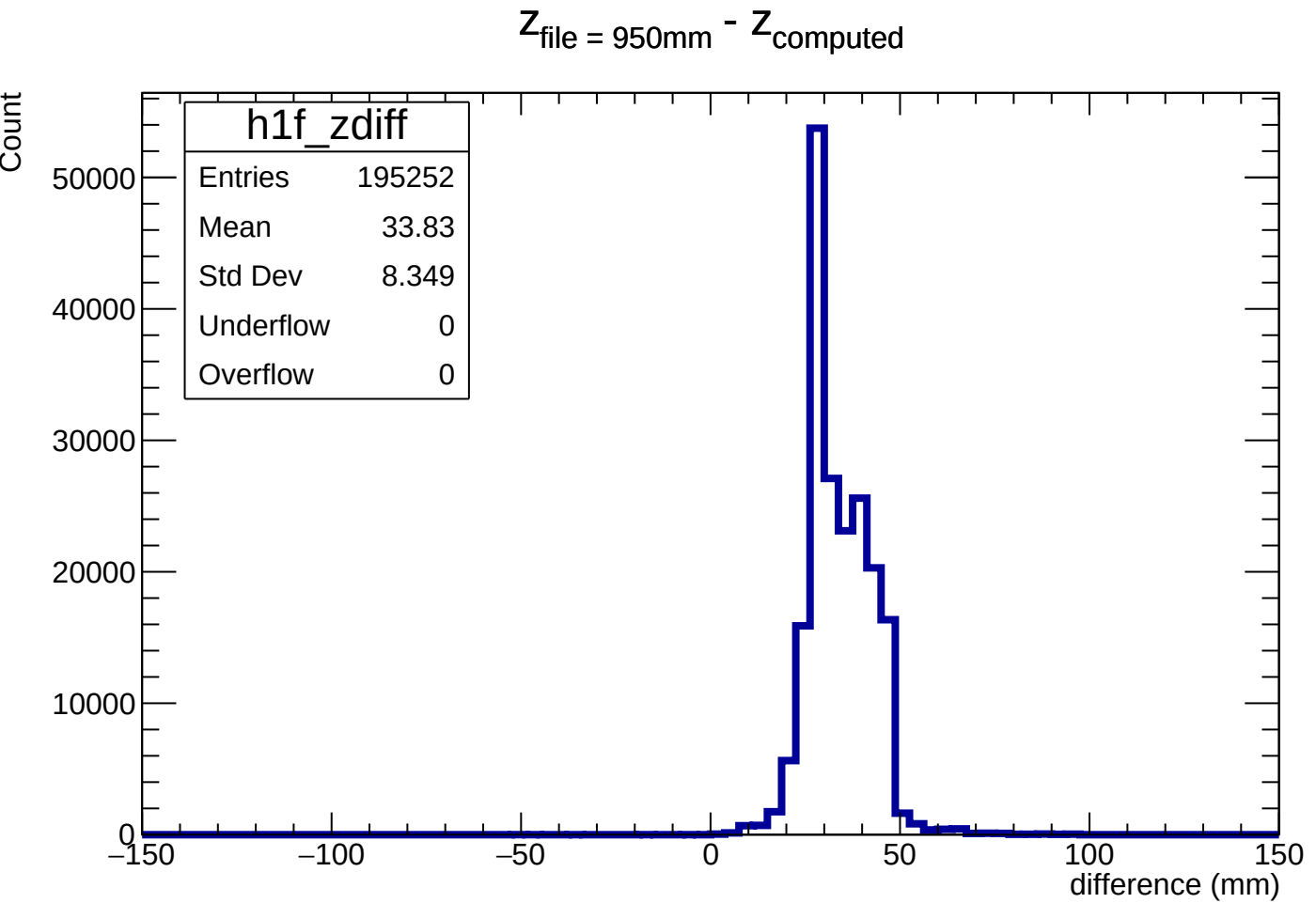
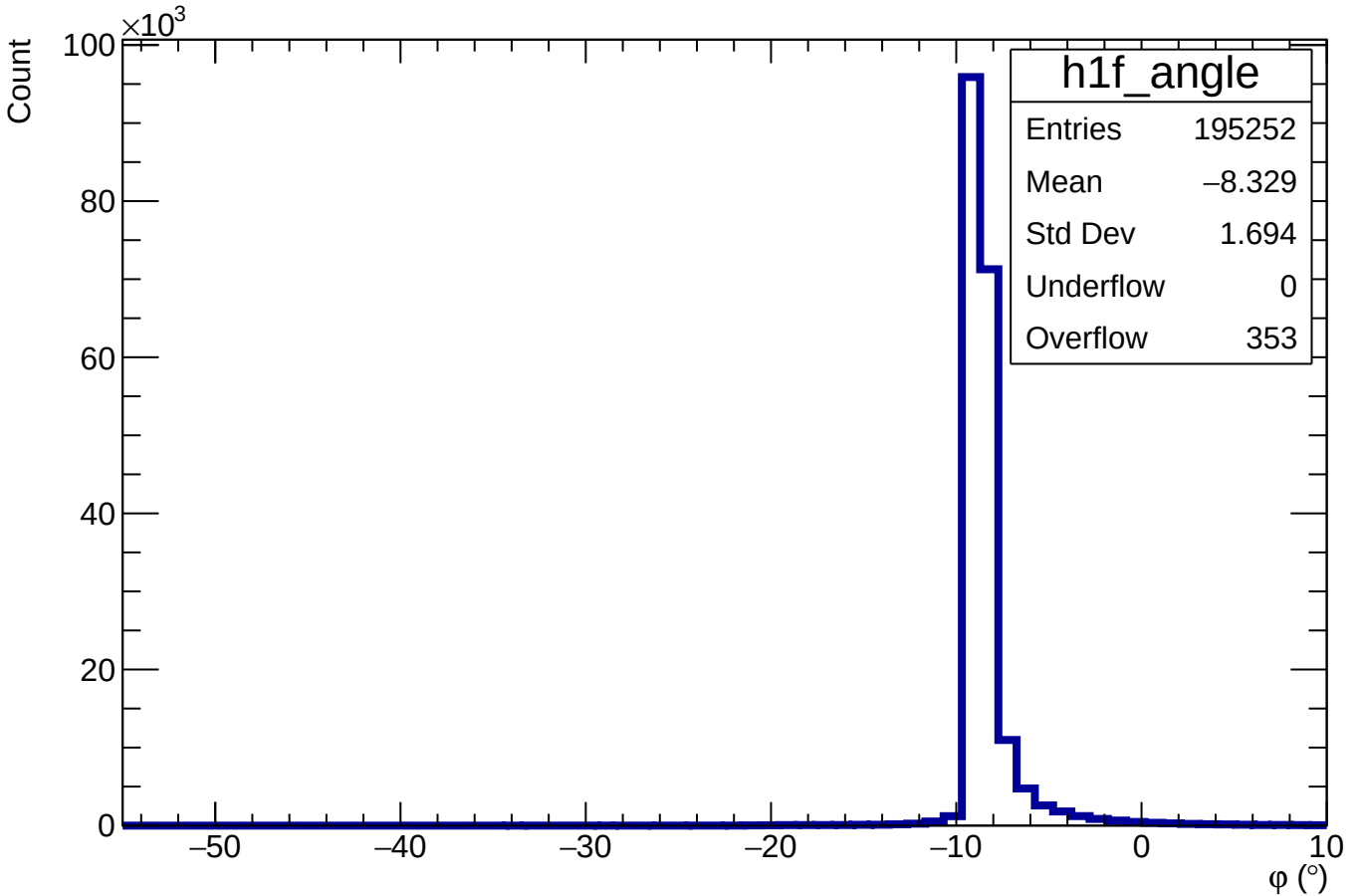
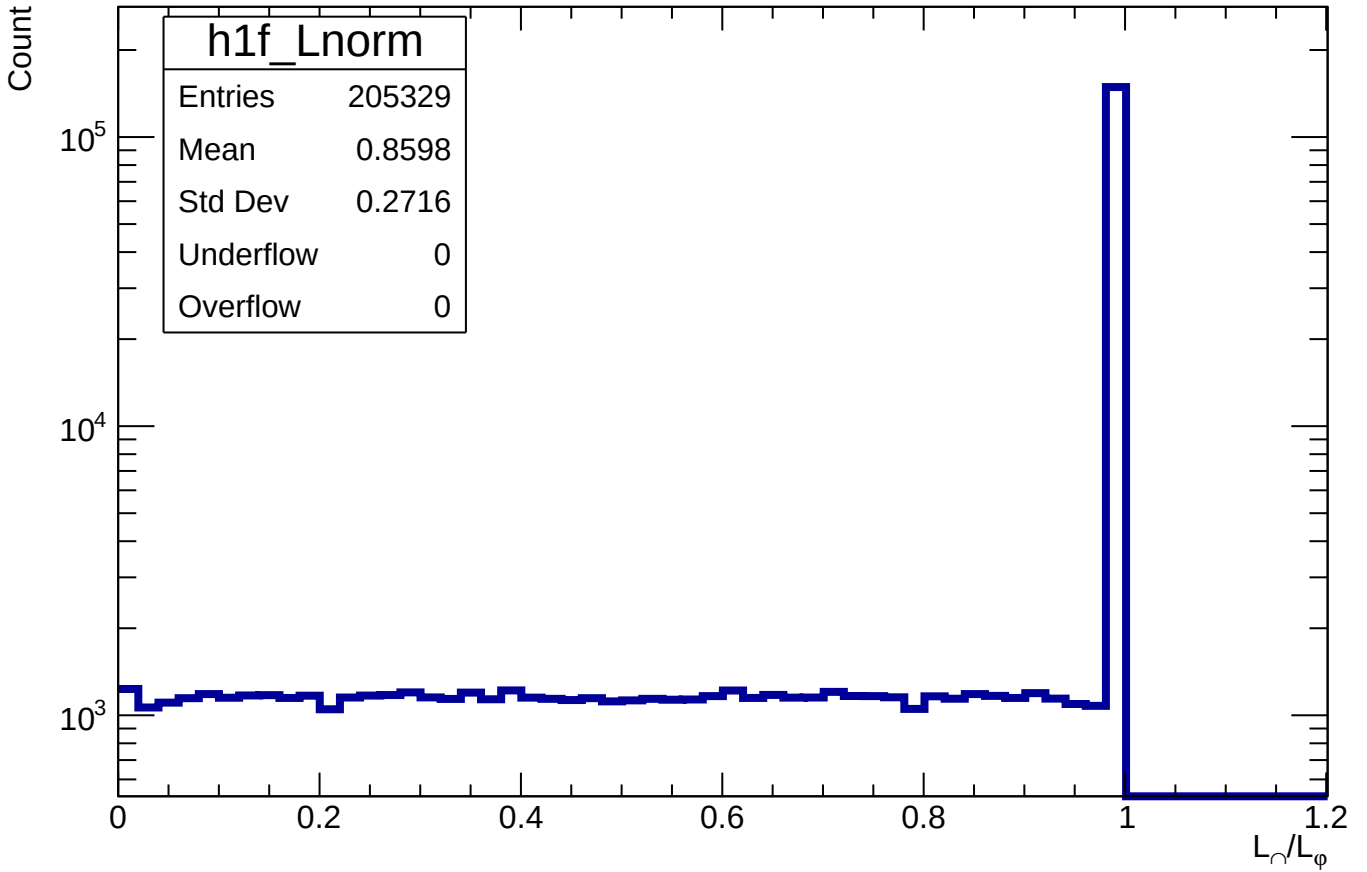

T_{max} of crossed pads
h1f_Tcross
Entries 195252
Mean 341.6
Std Dev 2.682
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

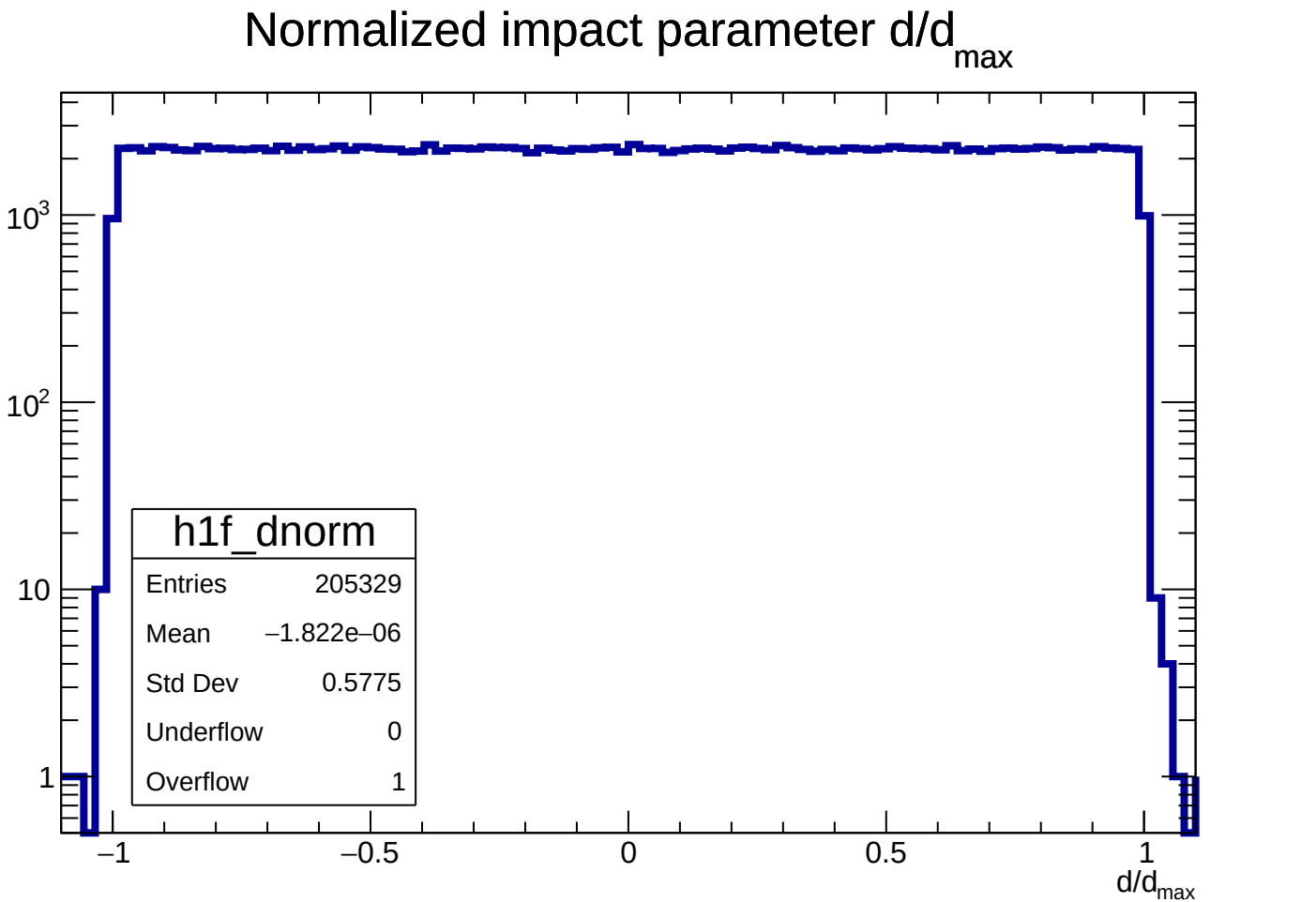

Number of crossed pads
h1f_Ncross
Entries 5193
Mean 37.6
Std Dev 1.349
Underflow 0
Overflow 0
Count
0
200
400
600
800
1000
1200
1400
1600
1800
15
20
25
30
35
40
45
50
55
60
# of crossed pads

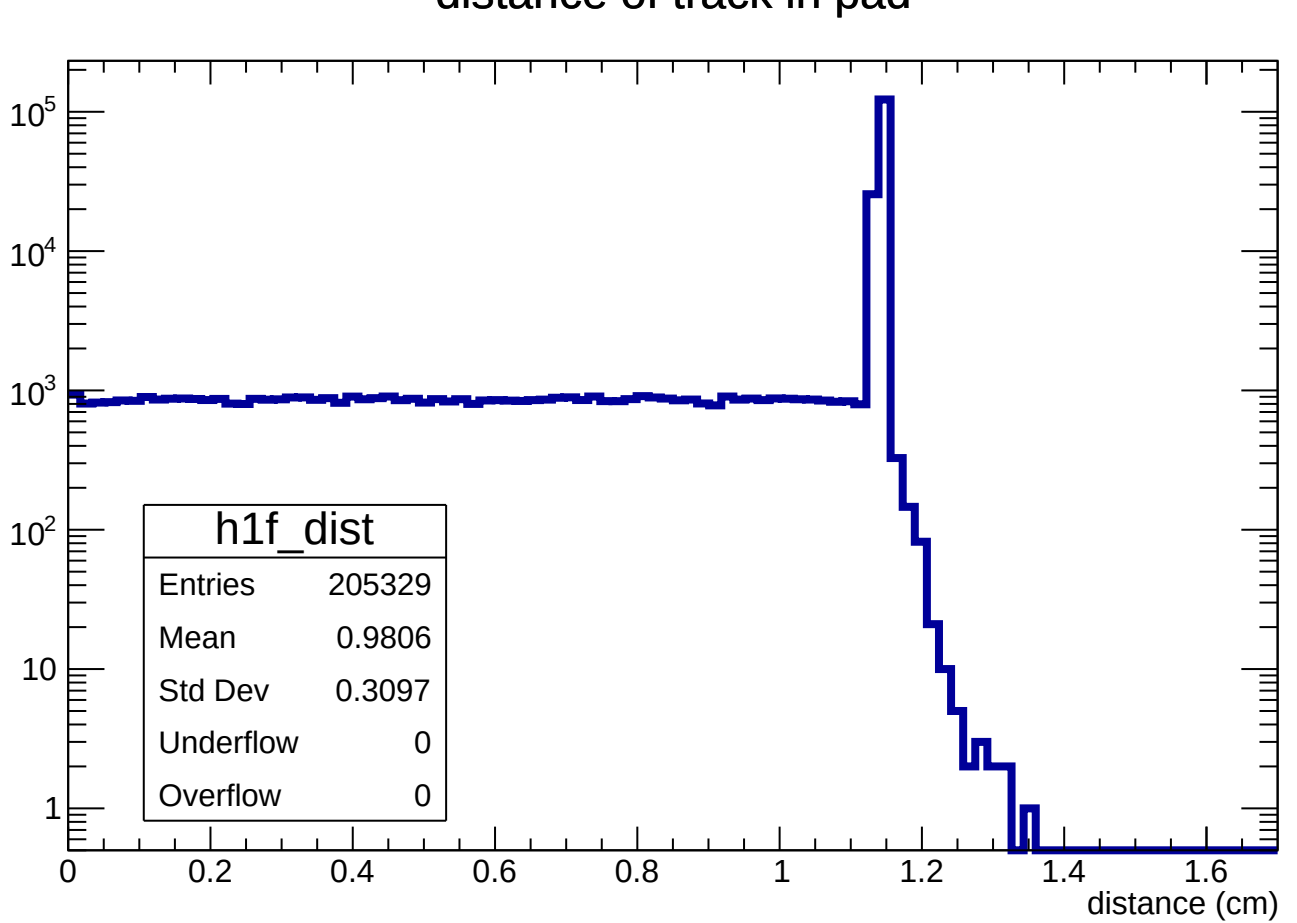

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 5193
Mean 1.67
Std Dev 11.76
Underflow 0
Overflow 0
Count
600
500
400
300
200
100
0
–150
–100
–50
0
50
100
150
difference (ADC count)

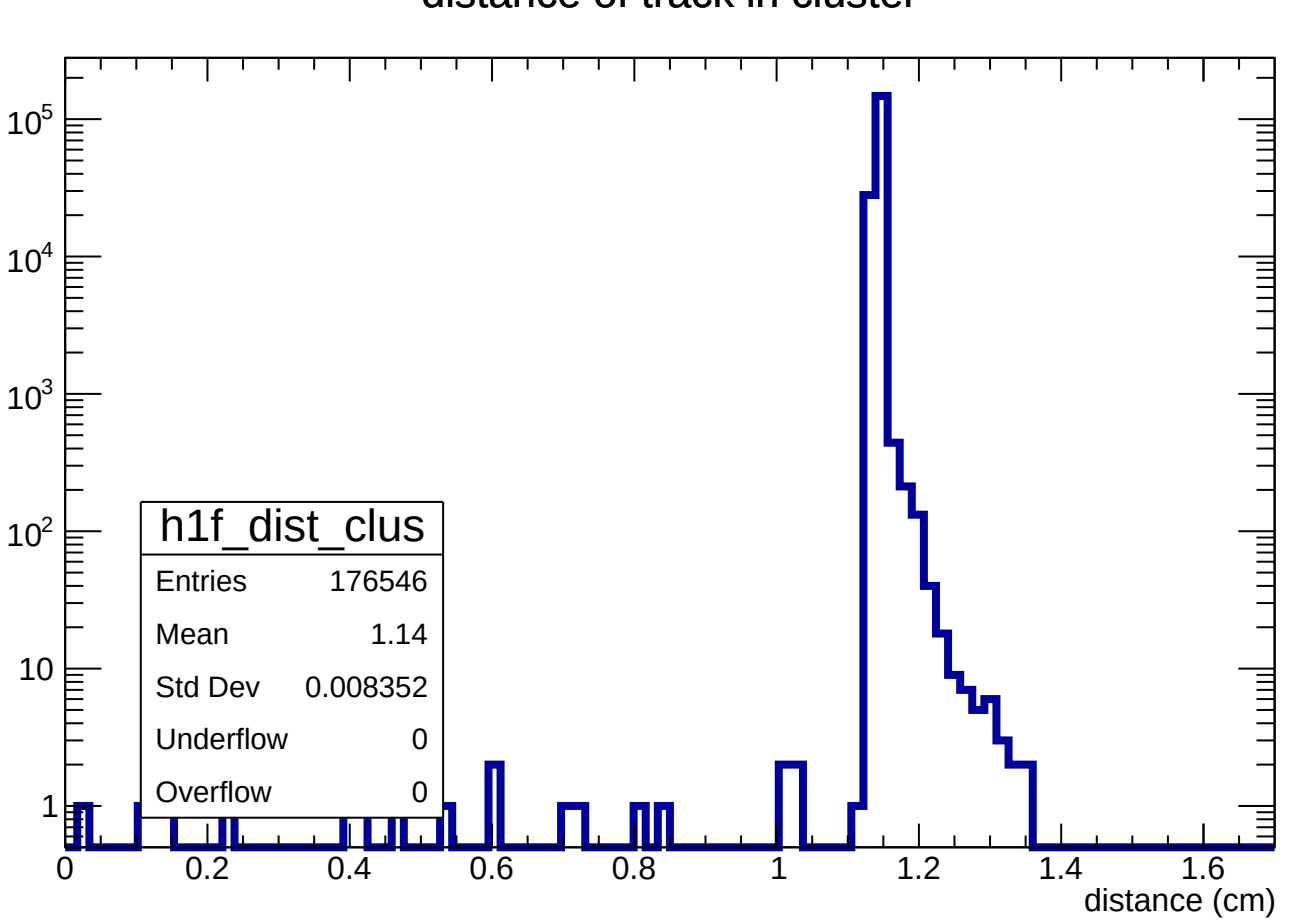

$z_{file = 950mm} - z_{computed}$
h1f_zdiff
Entries 195252
Mean 33.83
Std Dev 8.349
Underflow 0
Overflow 0
Count
50000
40000
30000
20000
10000
0
–150
–100
–50
0
50
100
150
difference (mm)

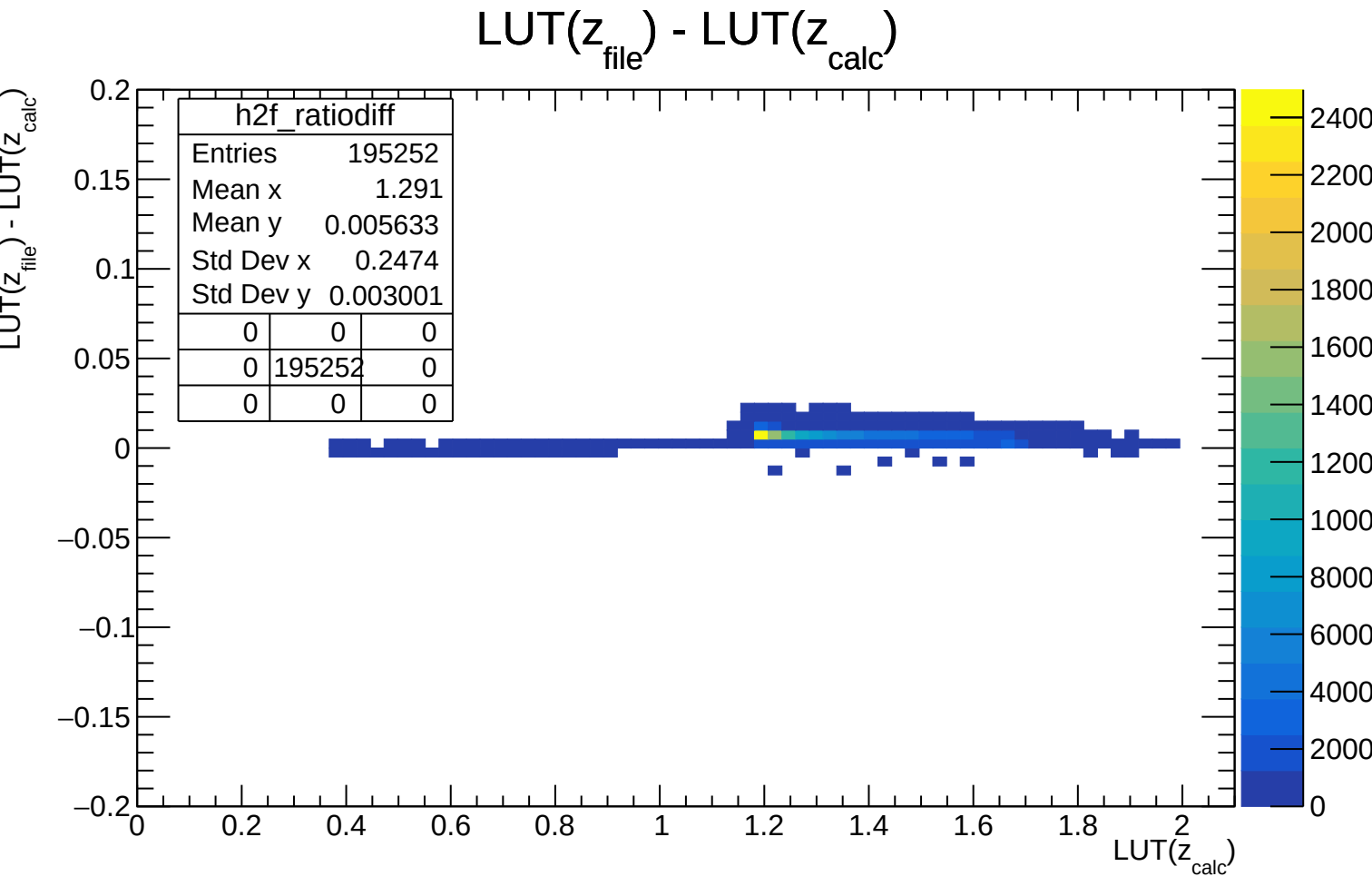

Angle φ in each pad
Count
×10^3
100
80
60
40
20
0
h1f_angle
Entries 195252
Mean −8.329
Std Dev 1.694
Underflow 0
Overflow 353
−50
−40
−30
−20
−10
0
10
φ (°)

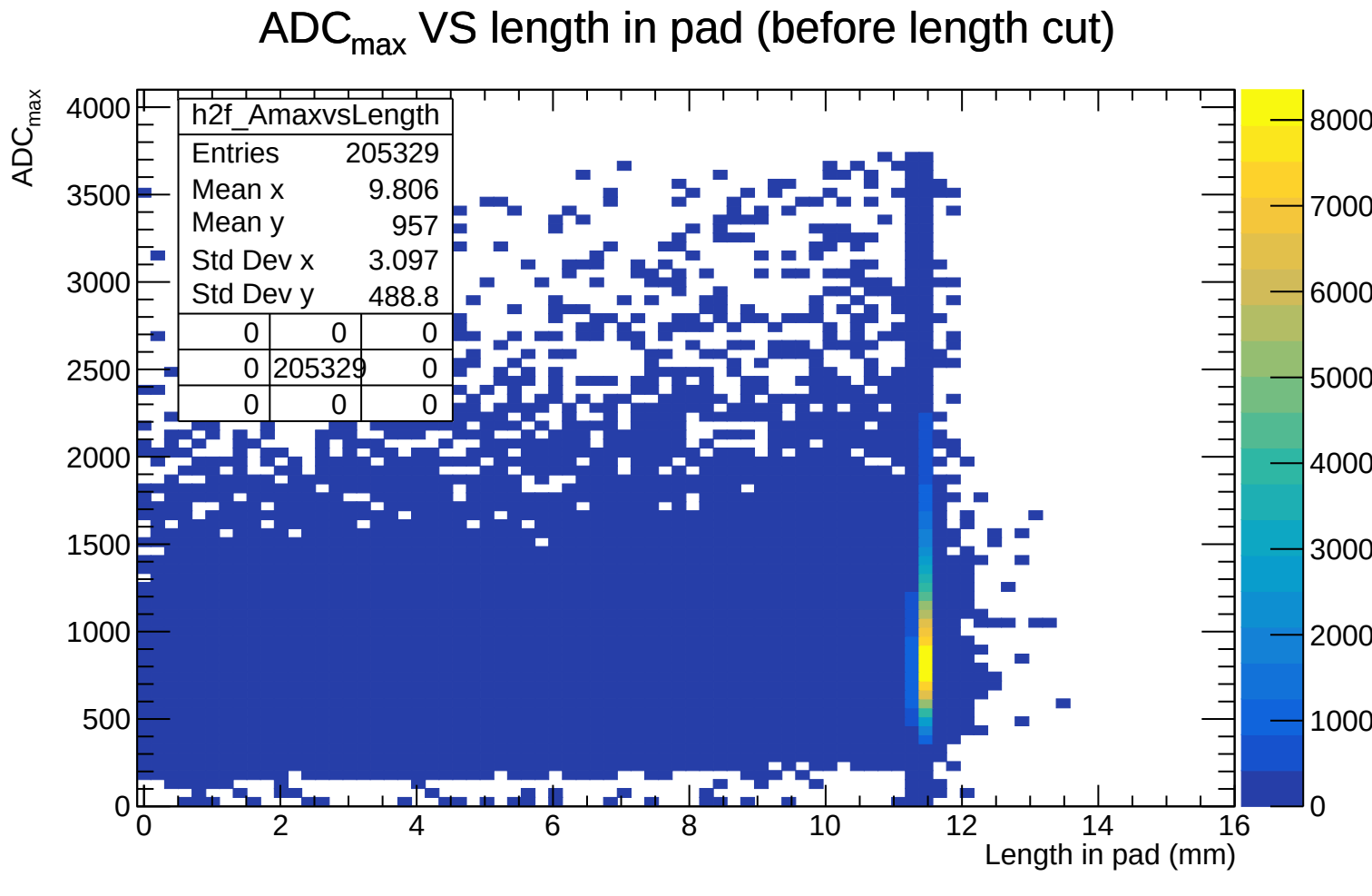

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 205329
Mean 0.8598
Std Dev 0.2716
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

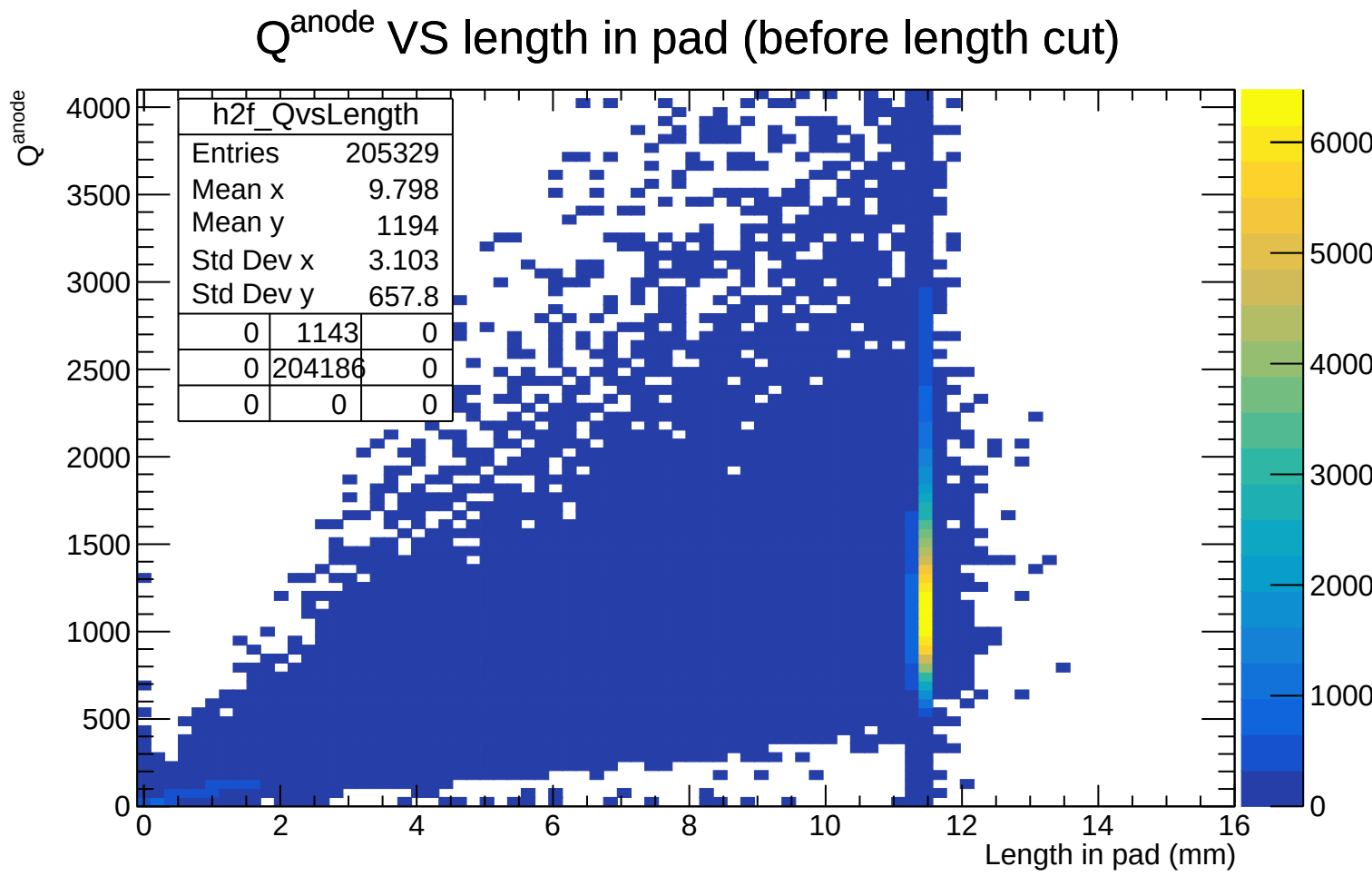

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 205329
Mean –1.822e–06
Std Dev 0.5775
Underflow 0
Overflow 1
–1
–0.5
0
0.5
1
d/d max

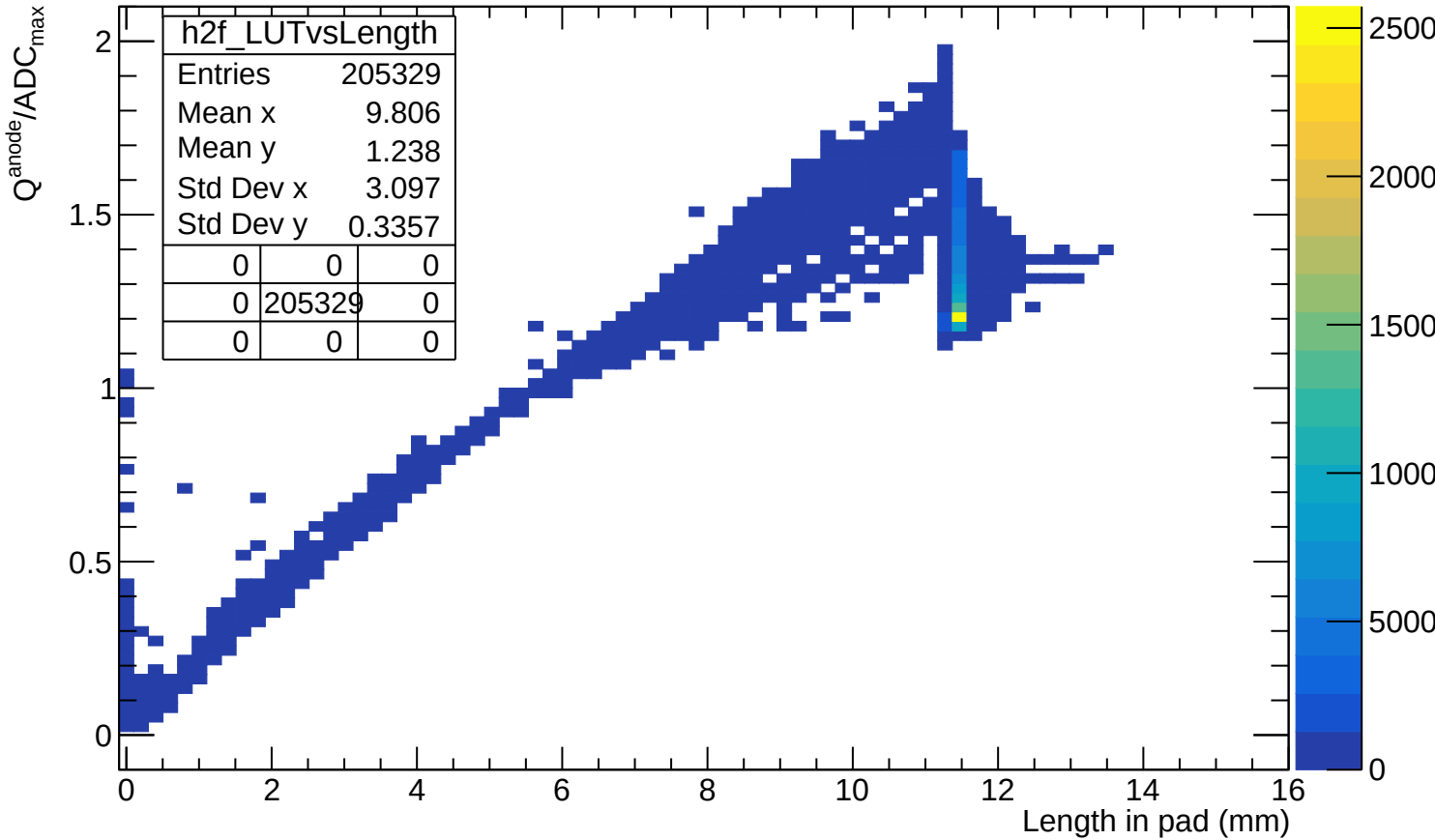

distance of track in pad
h1f_dist
Entries 205329
Mean 0.9806
Std Dev 0.3097
Underflow 0
Overflow 0
distance (cm)

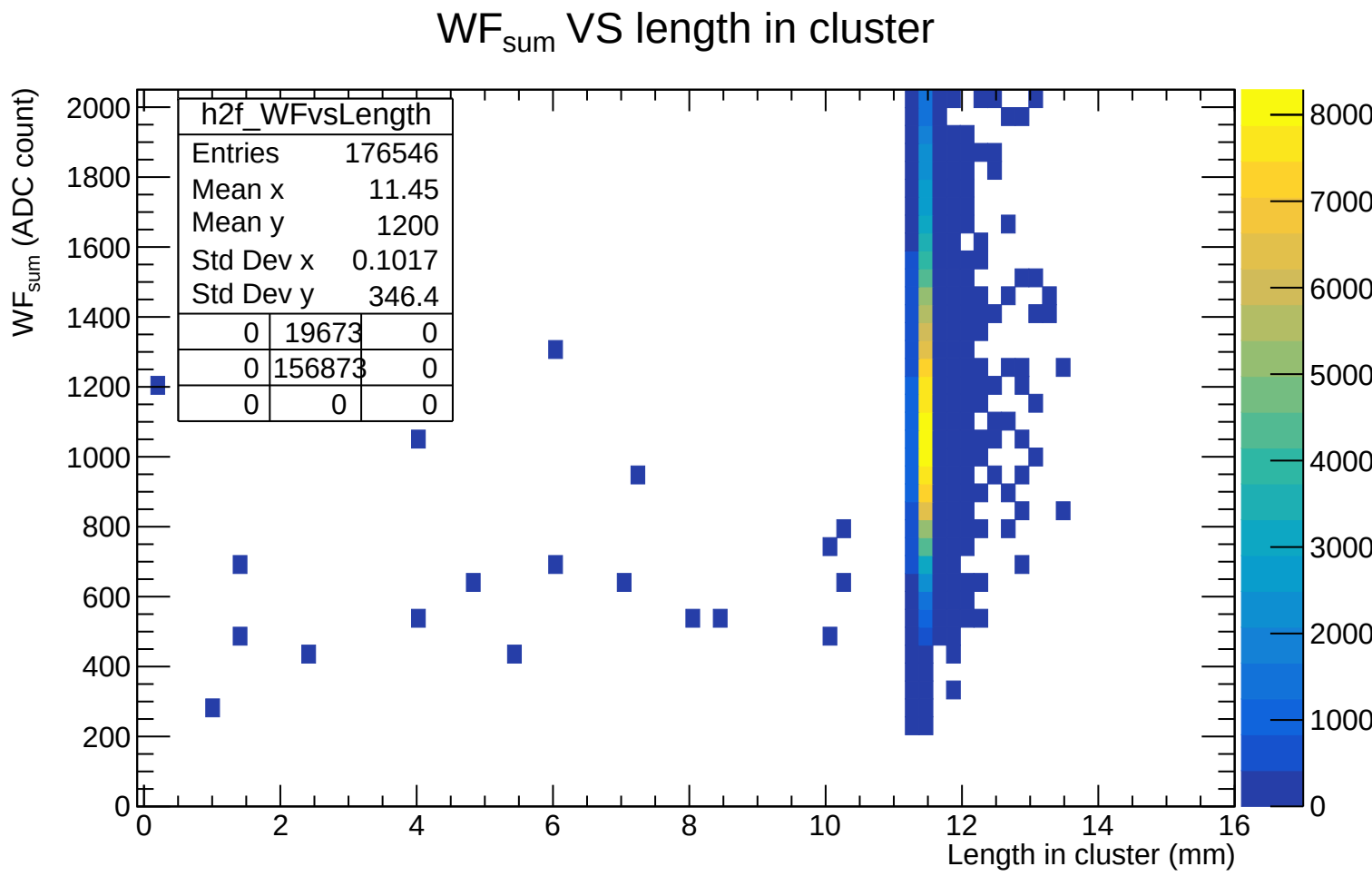

distance of track in cluster
h1f_dist_clus
Entries 176546
Mean 1.14
Std Dev 0.008352
Underflow 0
Overflow 0
distance (cm)

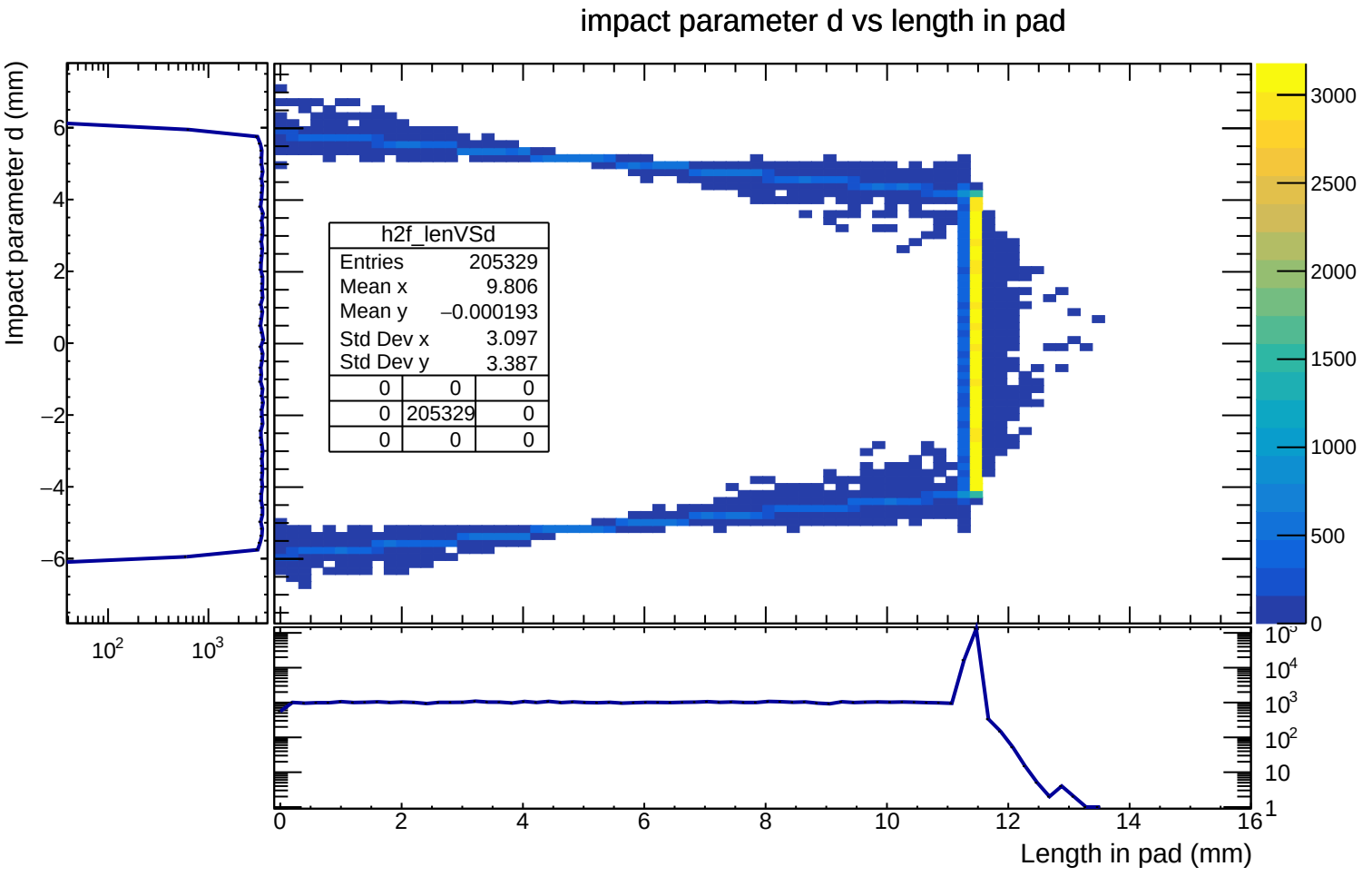

LUT(z_file) - LUT(z_calc)
h2f_ratiodiff
Entries 195252
Mean x 1.291
Mean y 0.005633
Std Dev x 0.2474
Std Dev y 0.003001
0 0 0
0 195252 0
0 0 0
LUT(z_file) - LUT(z_calc)
LUT(z_calc)
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2400
2200
2000
1800
1600
1400
1200
1000
8000
6000
4000
2000
0


ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 205329
Mean x 9.806
Mean y 957
Std Dev x 3.097
Std Dev y 488.8
0 0 0
0 205329 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
2000
3000
4000
5000
6000
7000
8000


Q^anode VS length in pad (before length cut)
h2f_QvsLength
Entries 205329
Mean x 9.798
Mean y 1194
Std Dev x 3.103
Std Dev y 657.8
0 1143 0
0 204186 0
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 205329
Mean x 9.806
Mean y 1.238
Std Dev x 3.097
Std Dev y 0.3357
0 0 0
0 205329 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
2500
2000
1500
1000
500
0


WF_sum VS length in cluster
h2f_WFvsLength
Entries 176546
Mean x 11.45
Mean y 1200
Std Dev x 0.1017
Std Dev y 346.4
0 19673 0
0 156873 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


impact parameter d vs length in pad
Impact parameter d (mm)
Length in pad (mm)
h2f_lenVSd
Entries 205329
Mean x 9.806
Mean y −0.000193
Std Dev x 3.097
Std Dev y 3.387
0 0 0
0 205329 0
0 0 0