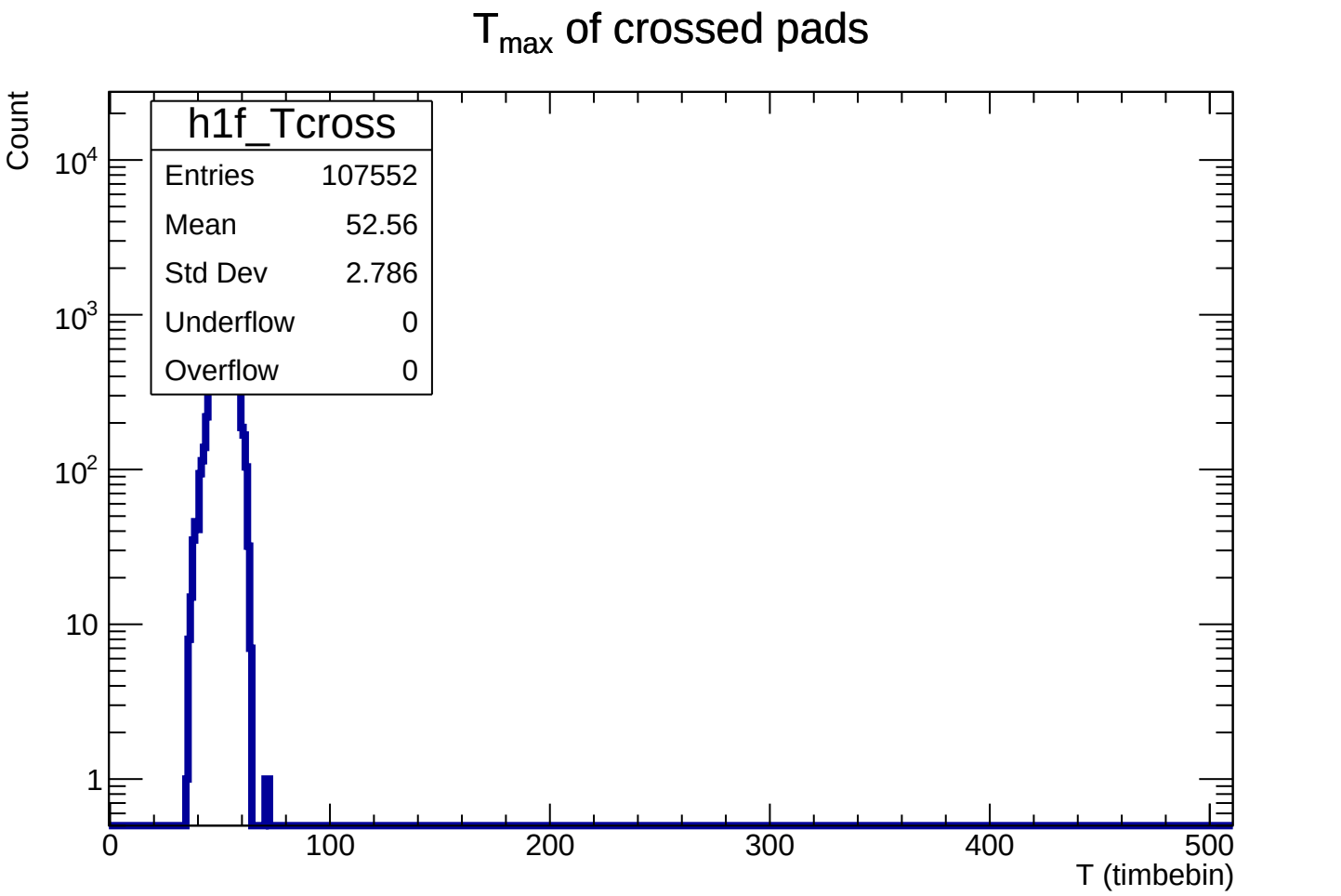
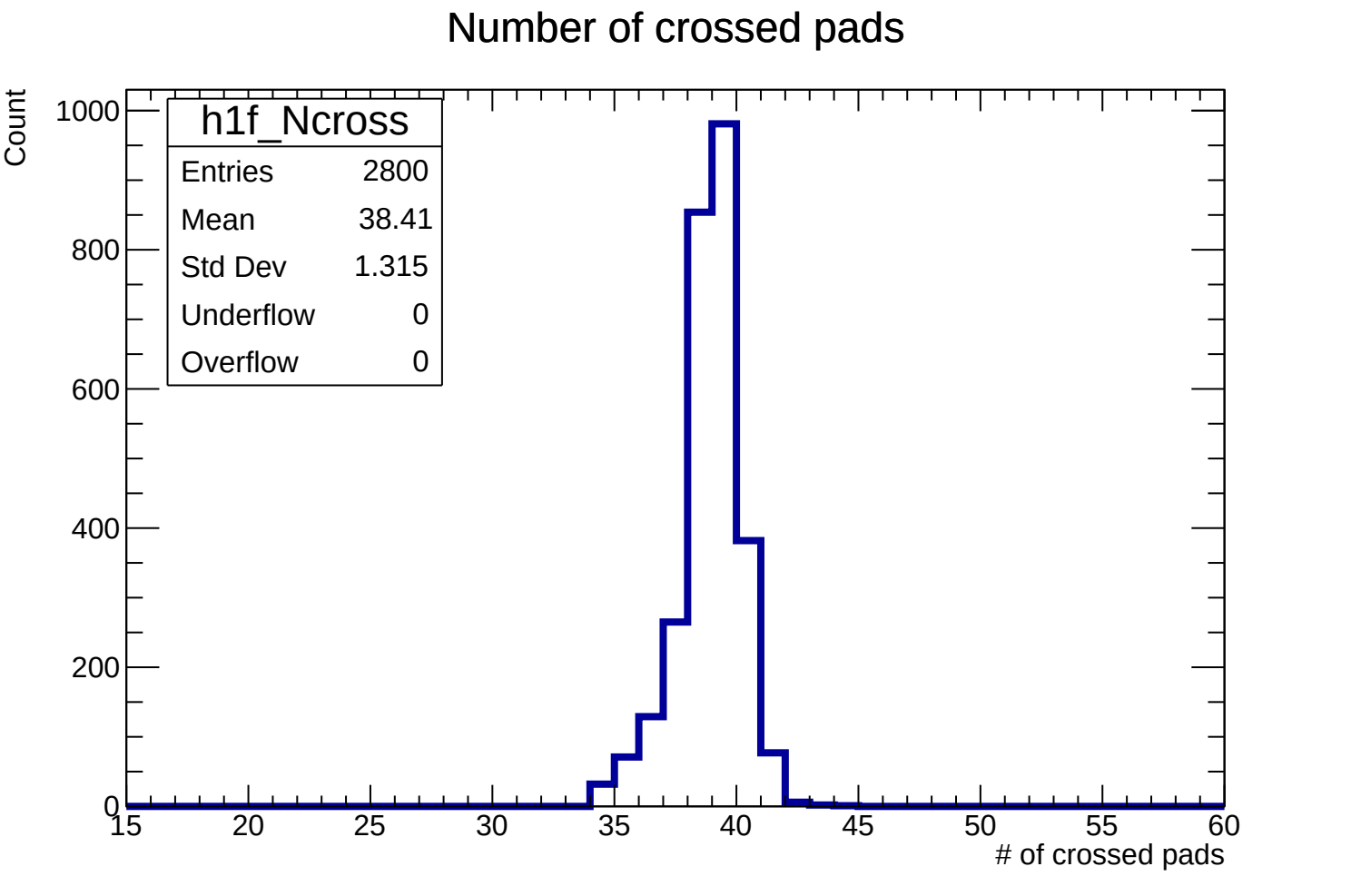
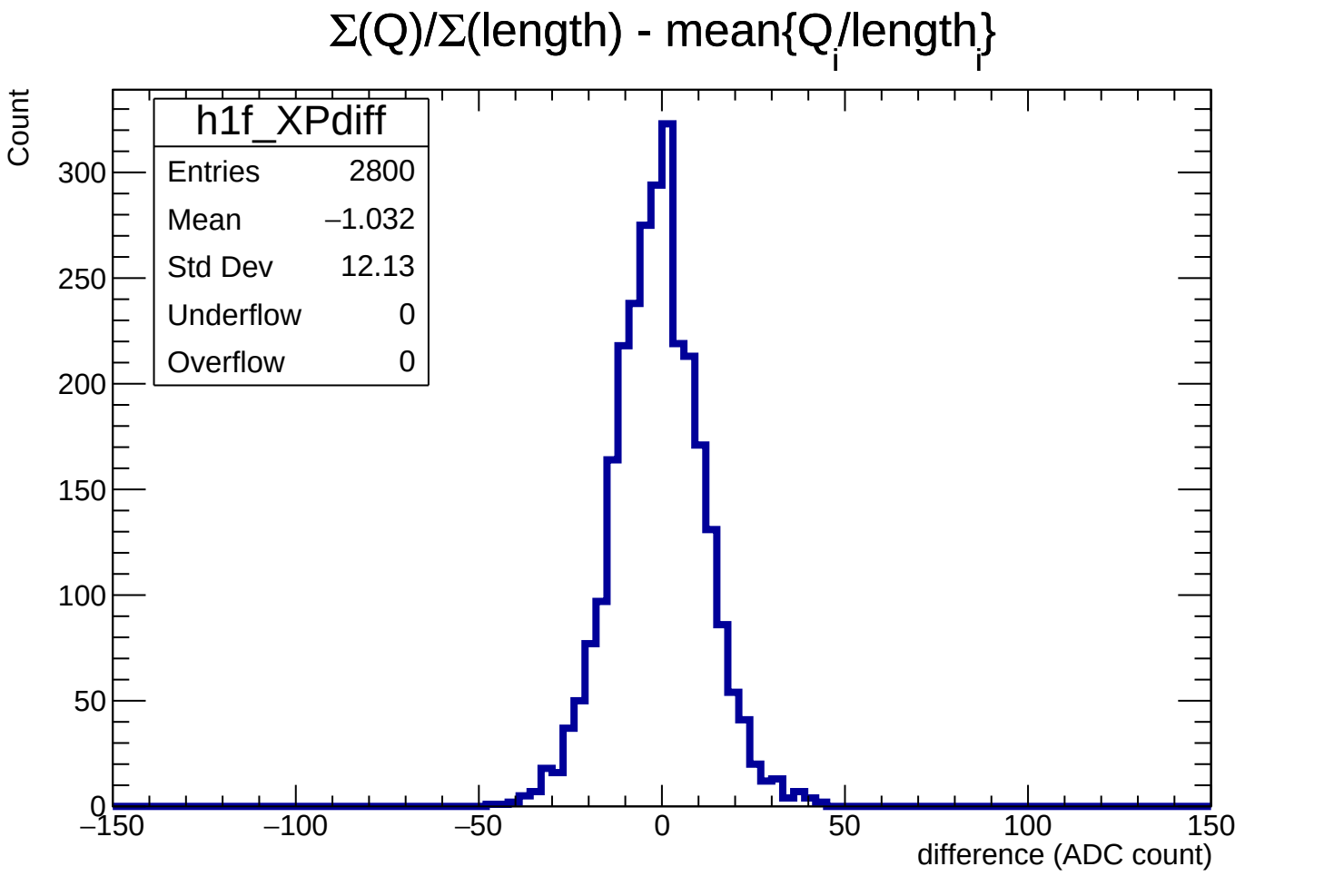
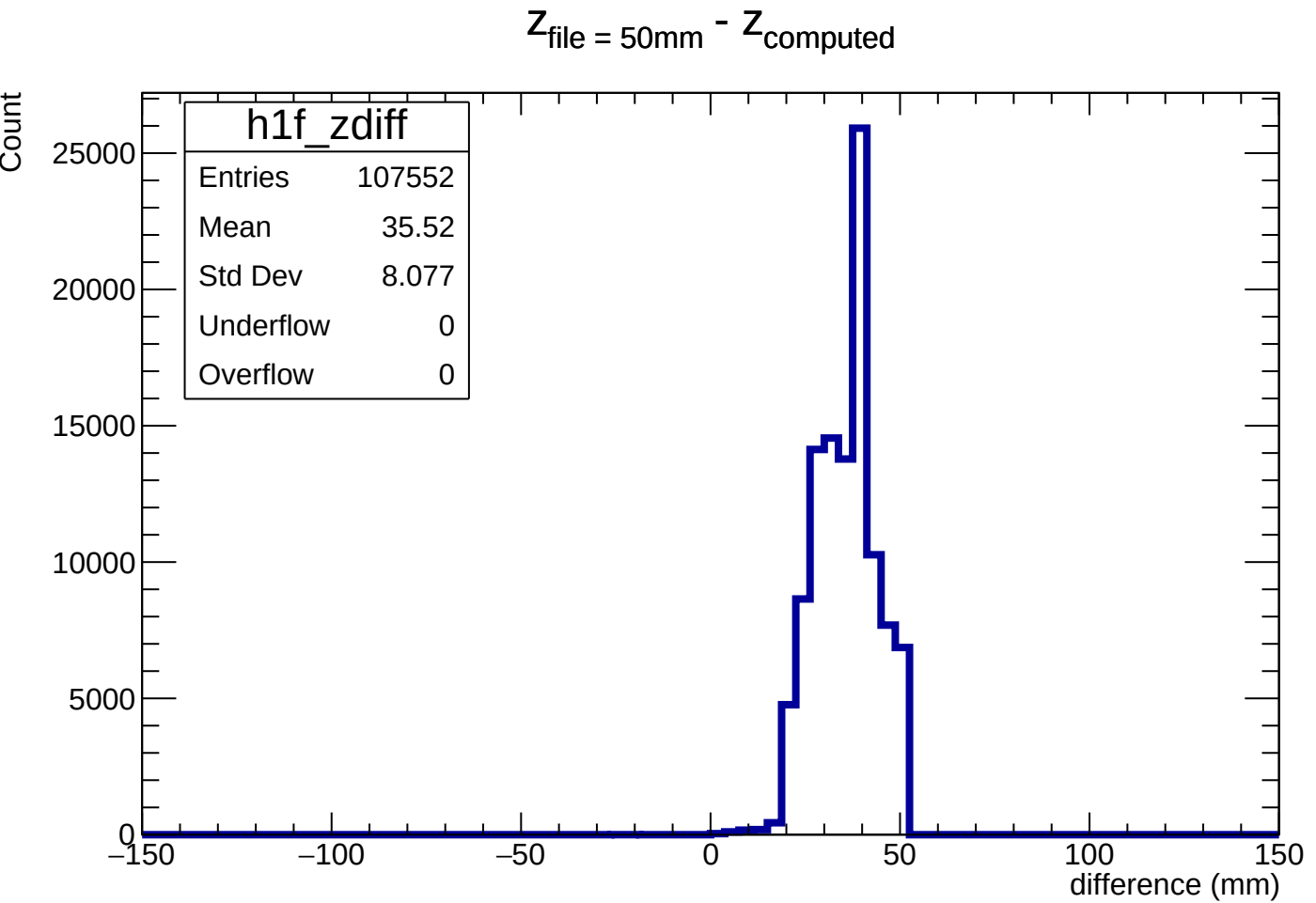
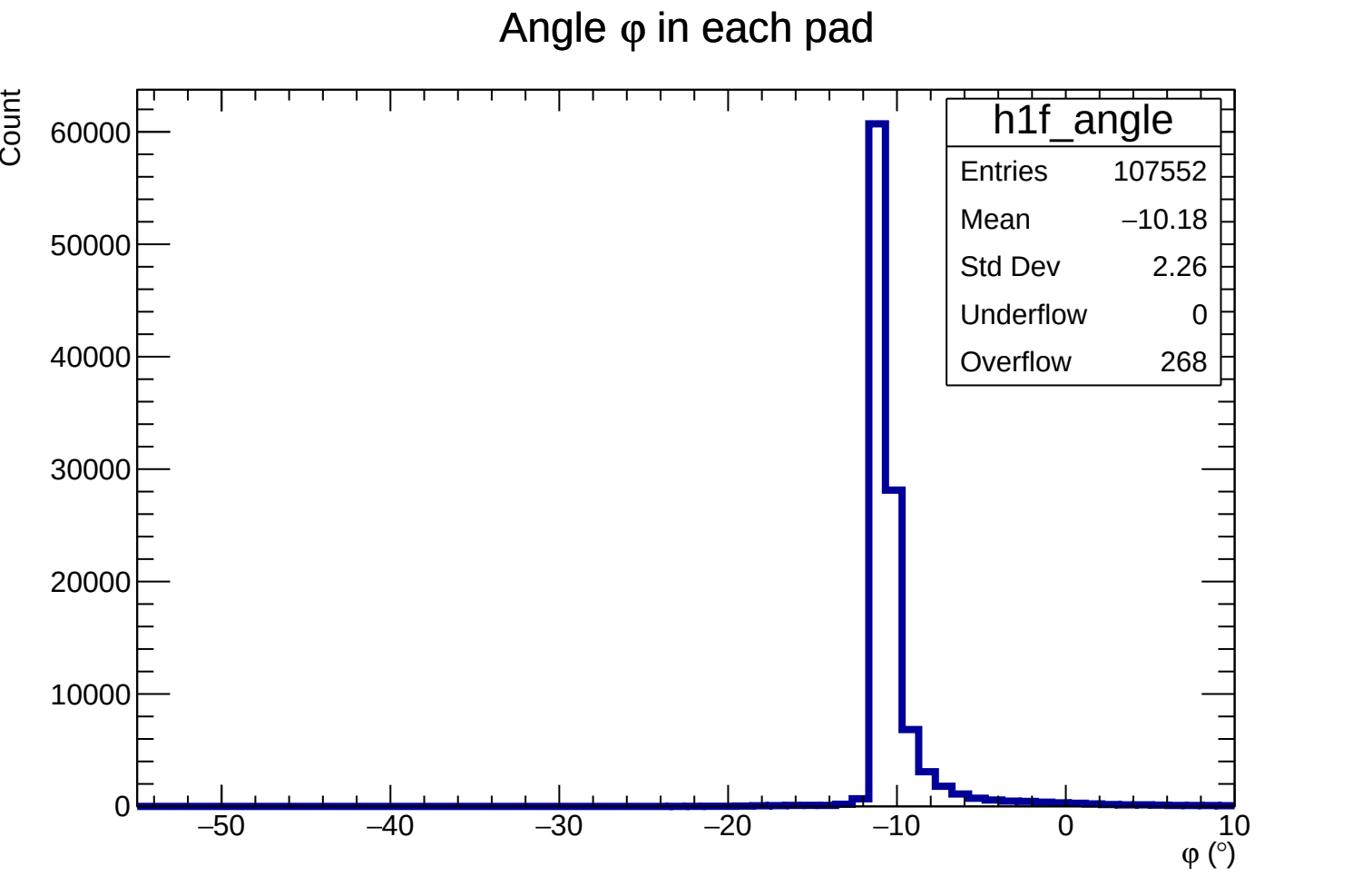
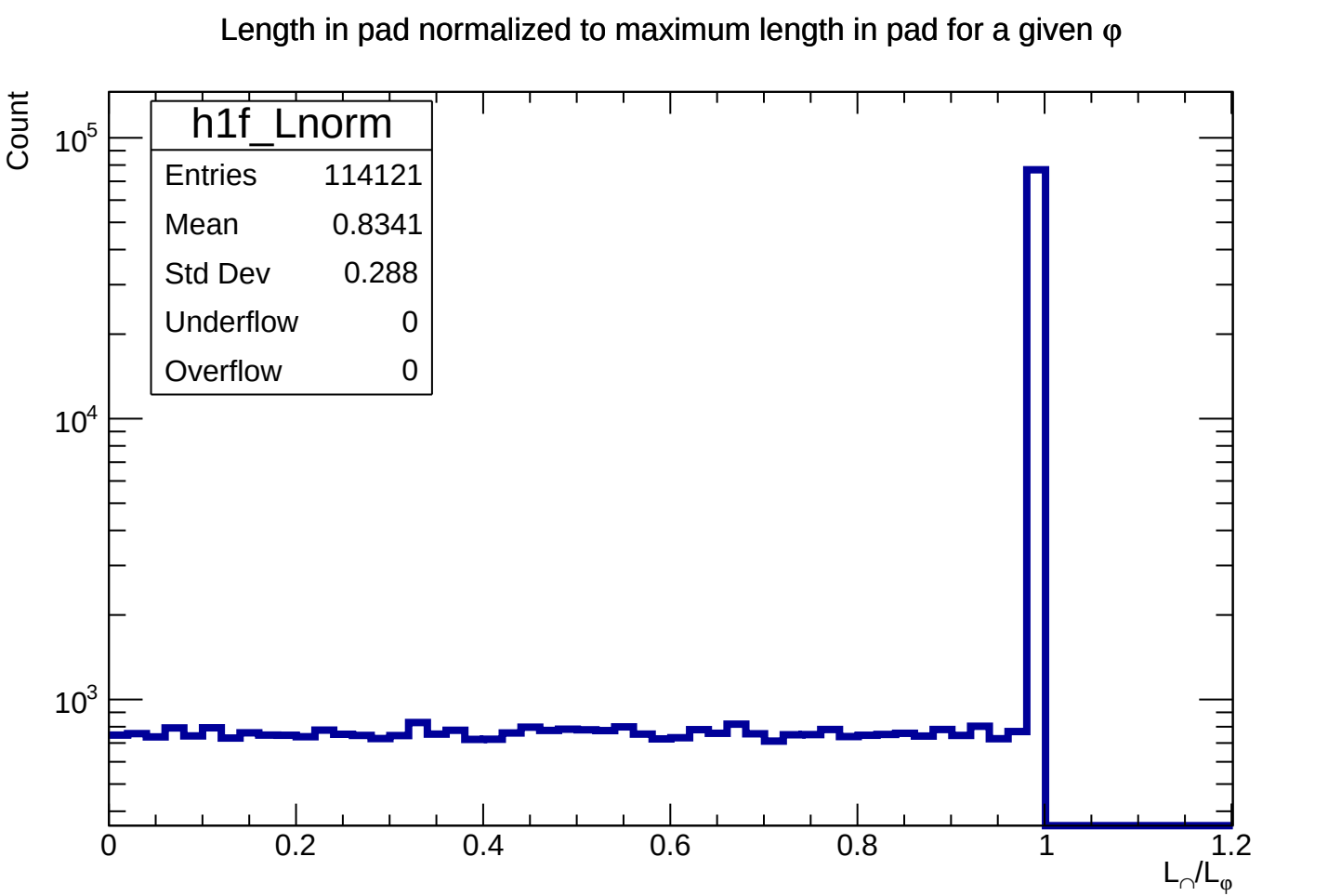

T_{max} of crossed pads
h1f_Tcross
Entries 107552
Mean 52.56
Std Dev 2.786
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

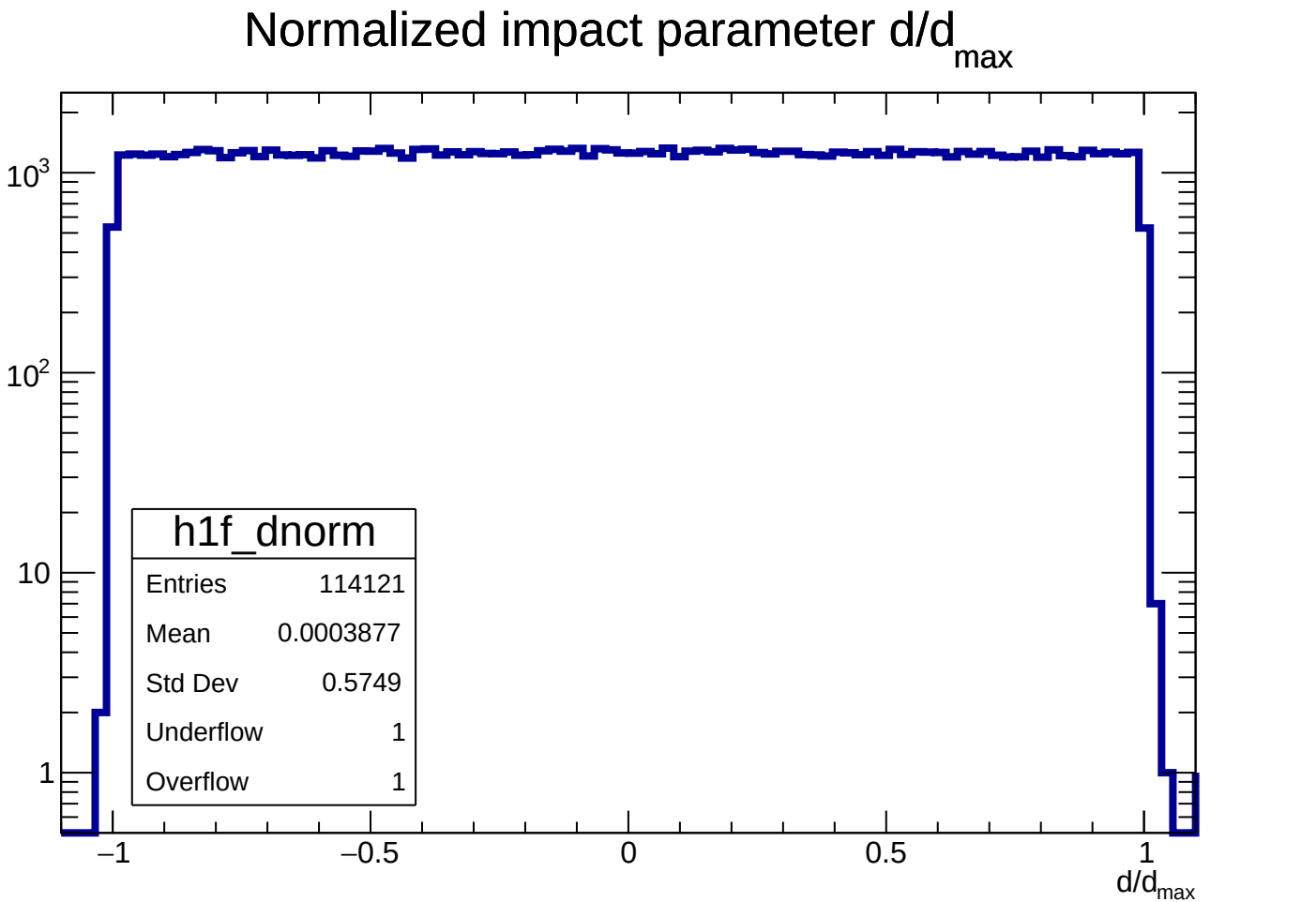

Number of crossed pads
h1f_Ncross
Entries 2800
Mean 38.41
Std Dev 1.315
Underflow 0
Overflow 0
Count
1000
800
600
400
200
0
15
20
25
30
35
40
45
50
55
60
# of crossed pads

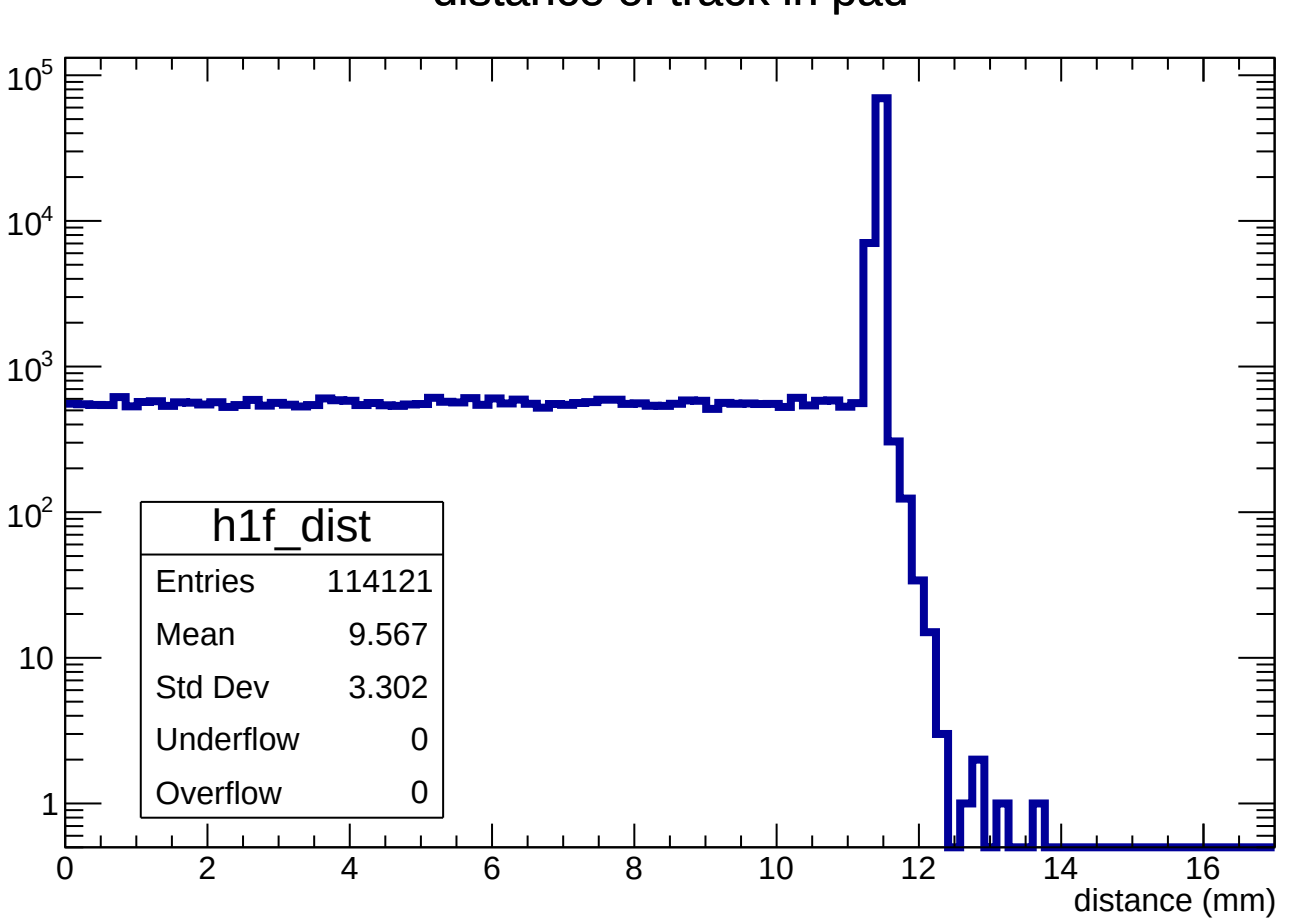

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 2800
Mean −1.032
Std Dev 12.13
Underflow 0
Overflow 0
Count
0
50
100
150
200
250
300
−150
−100
−50
0
50
100
150
difference (ADC count)

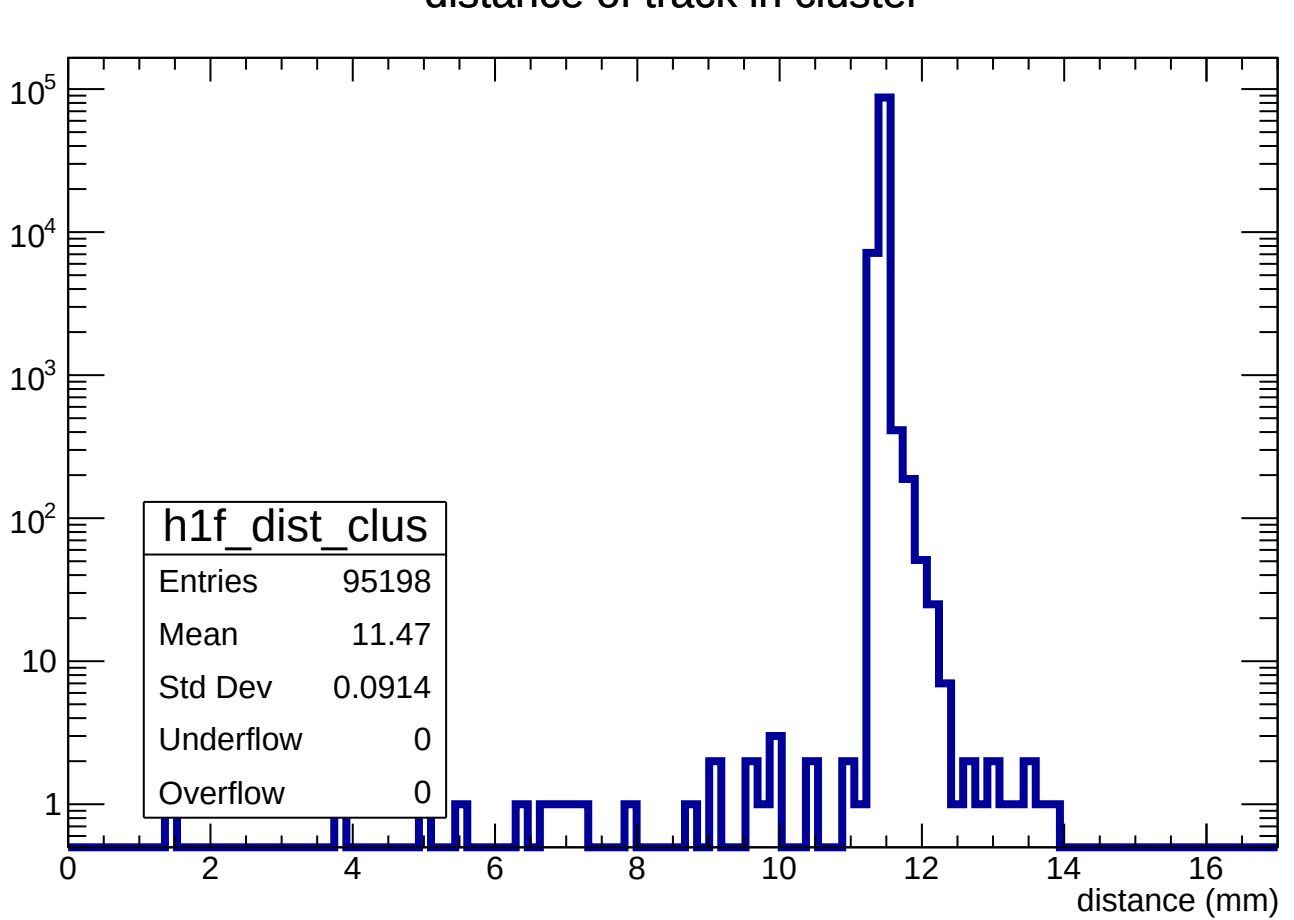

$z_{file = 50mm} - z_{computed}$
h1f_zdiff
Entries 107552
Mean 35.52
Std Dev 8.077
Underflow 0
Overflow 0
Count
25000
20000
15000
10000
5000
0
–150
–100
–50
0
50
100
150
difference (mm)

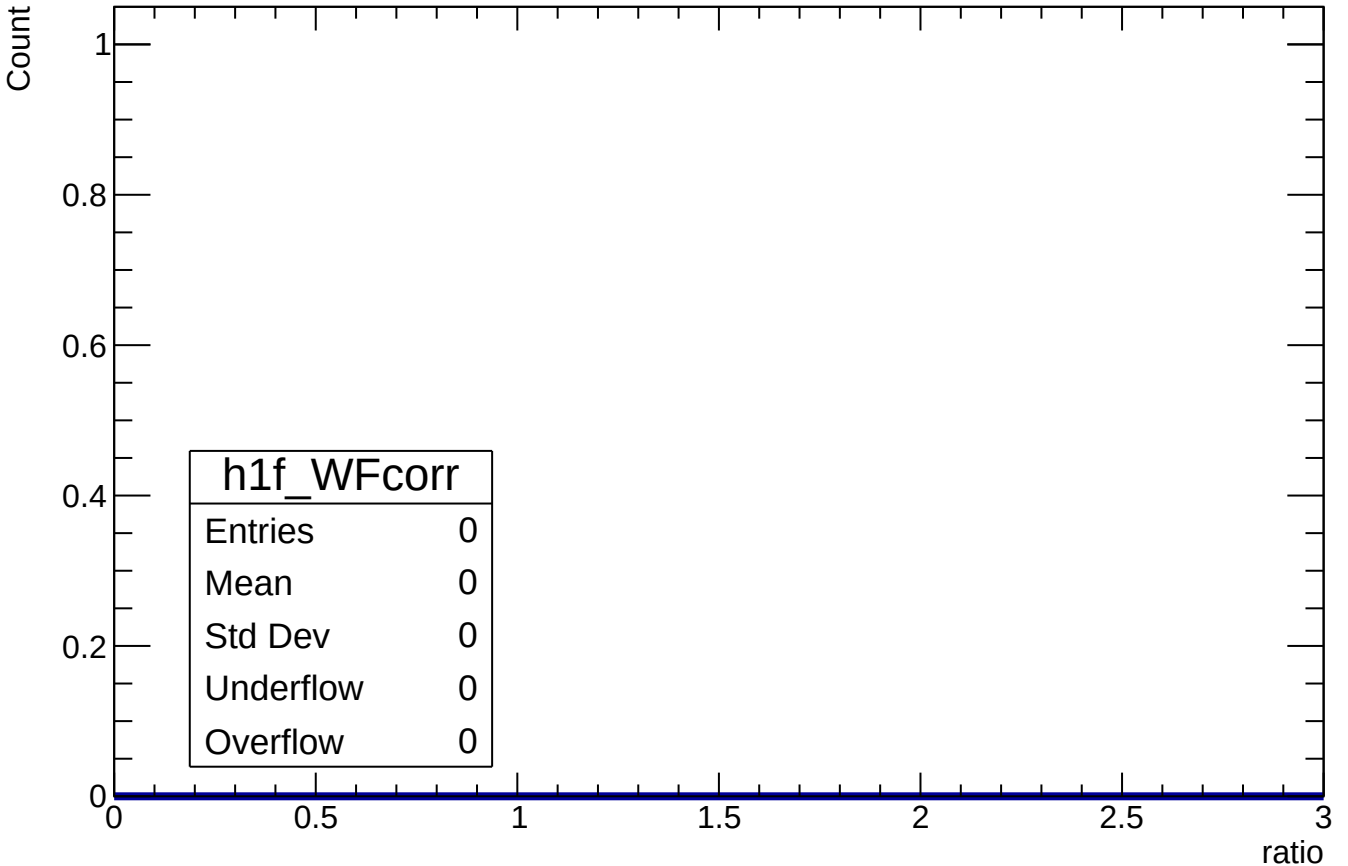

Angle φ in each pad
Count
60000
50000
40000
30000
20000
10000
0
–50
–40
–30
–20
–10
0
10
φ (°)
h1f_angle
Entries 107552
Mean –10.18
Std Dev 2.26
Underflow 0
Overflow 268

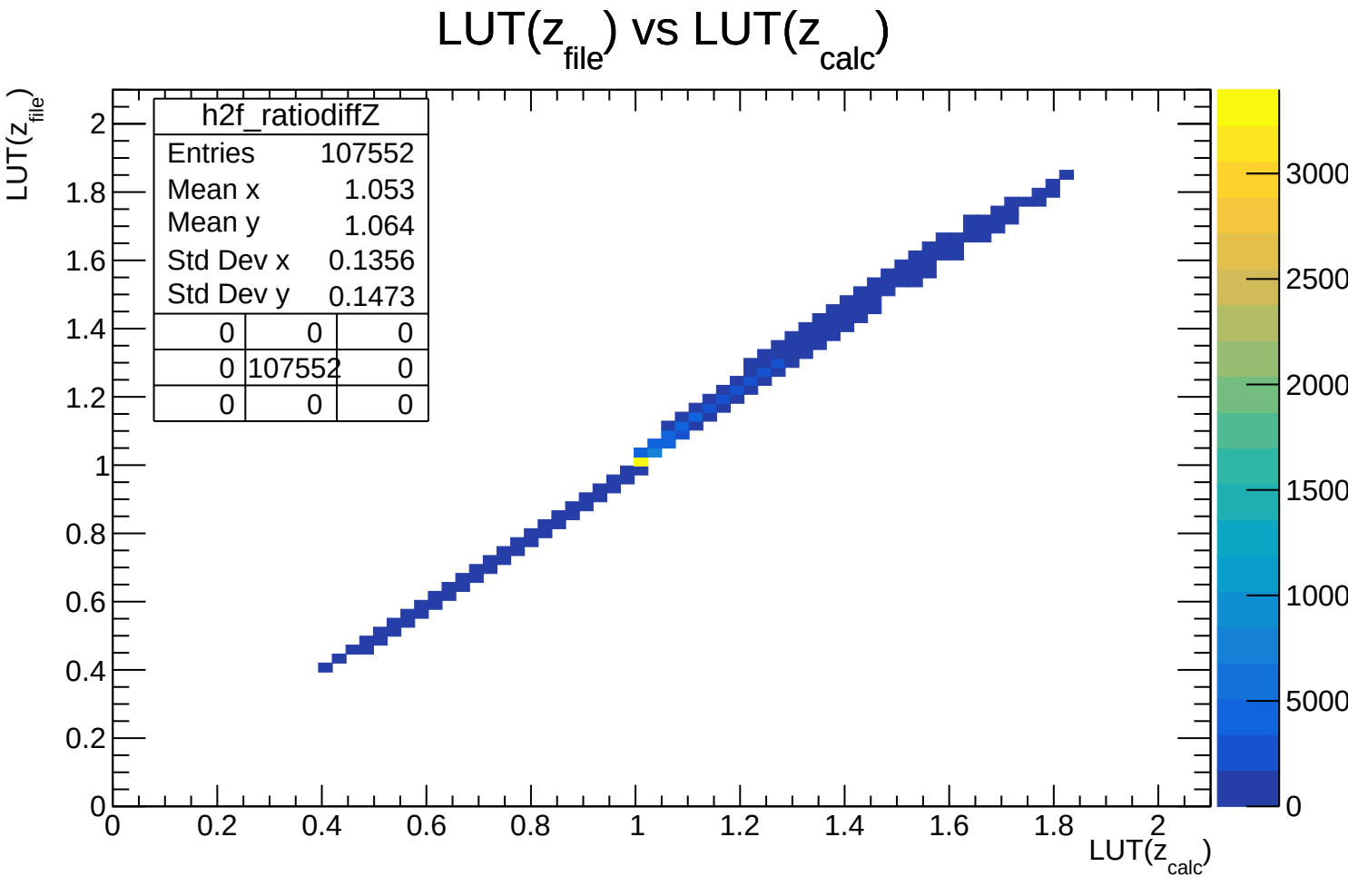

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 114121
Mean 0.8341
Std Dev 0.288
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

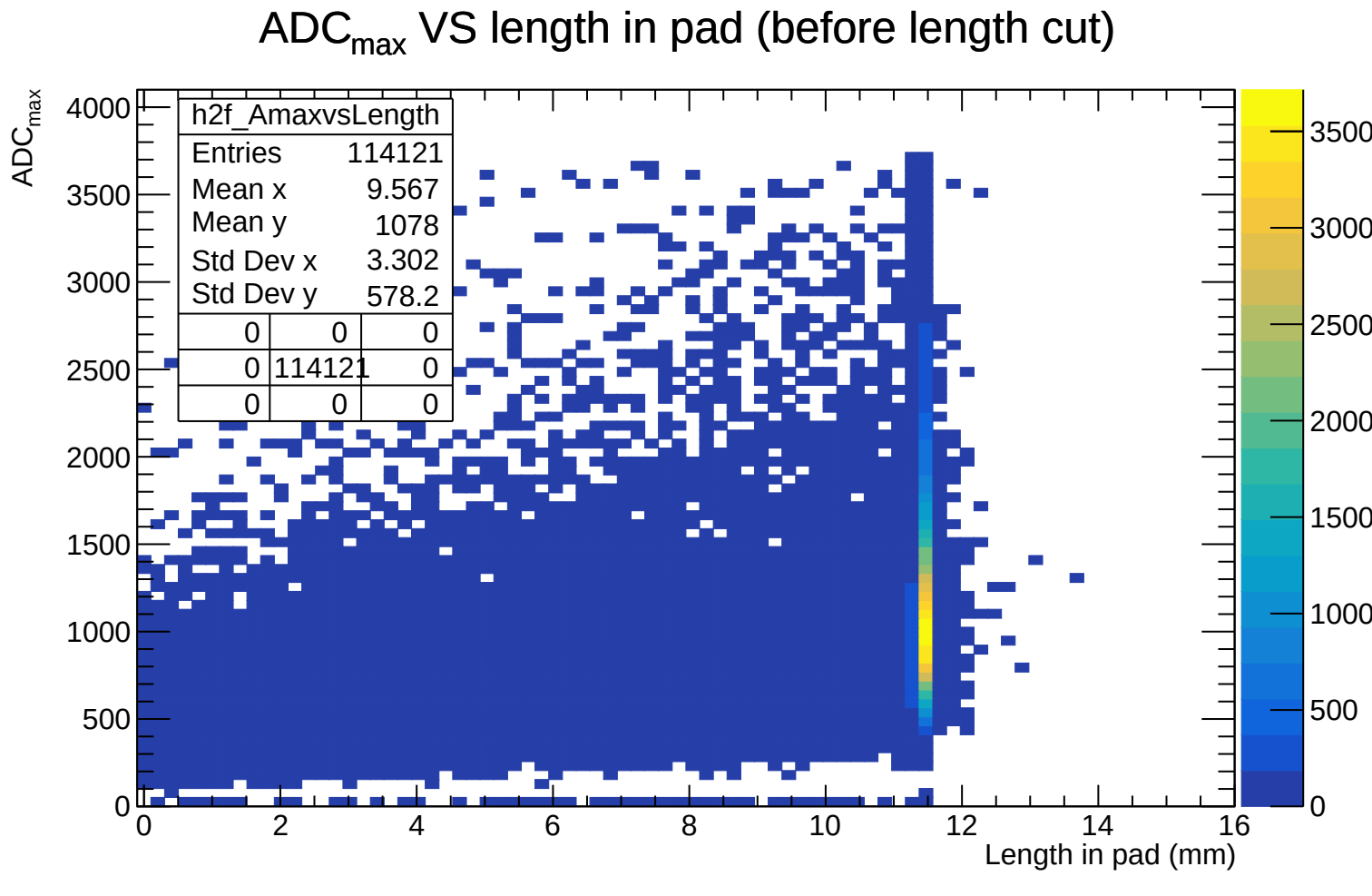

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 114121
Mean 0.0003877
Std Dev 0.5749
Underflow 1
Overflow 1
–1
–0.5
0
0.5
1
d/d max

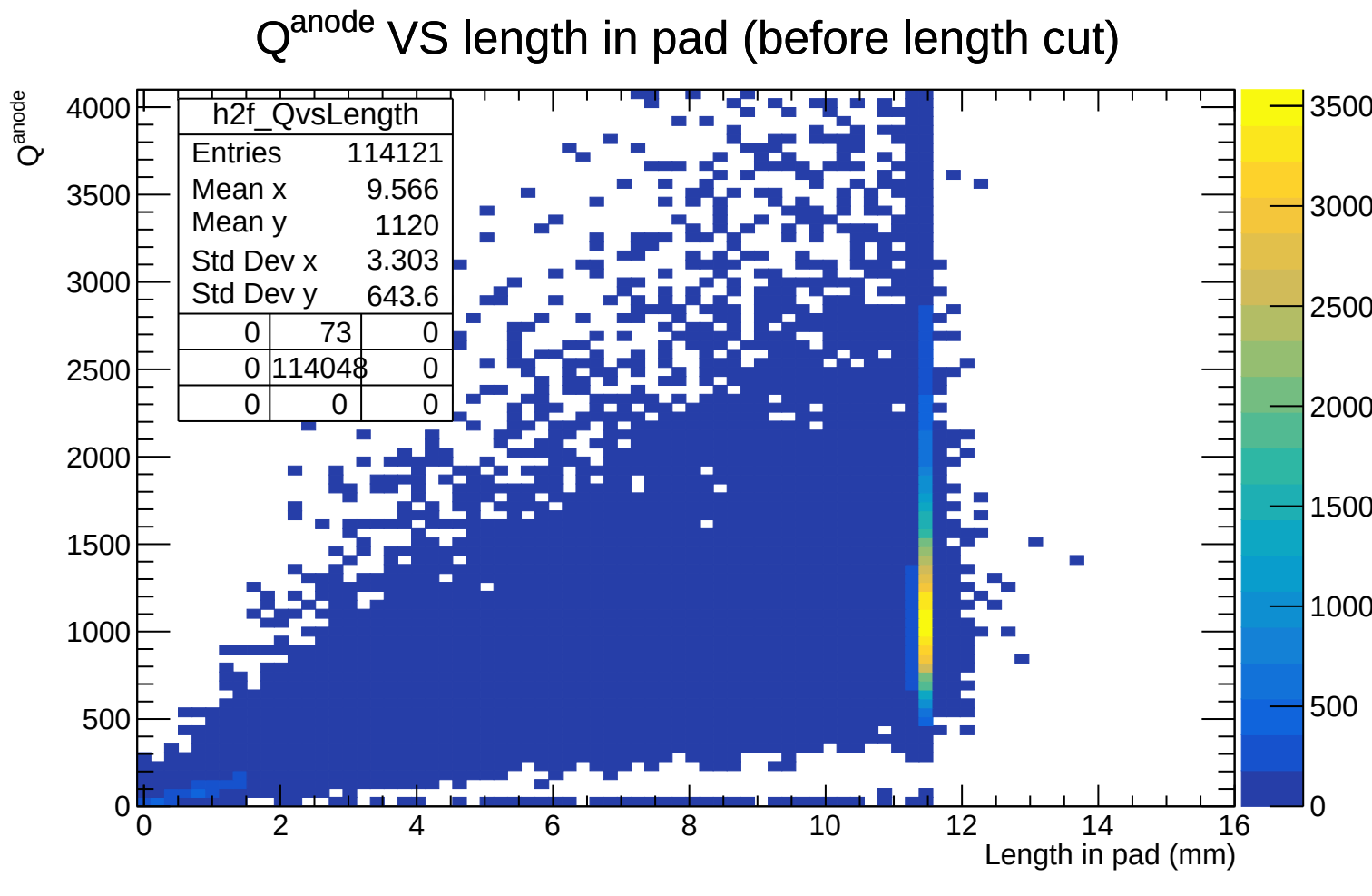

distance of track in pad
10^5
10^4
10^3
10^2
10
1
0
2
4
6
8
10
12
14
16
distance (mm)
h1f_dist
Entries 114121
Mean 9.567
Std Dev 3.302
Underflow 0
Overflow 0

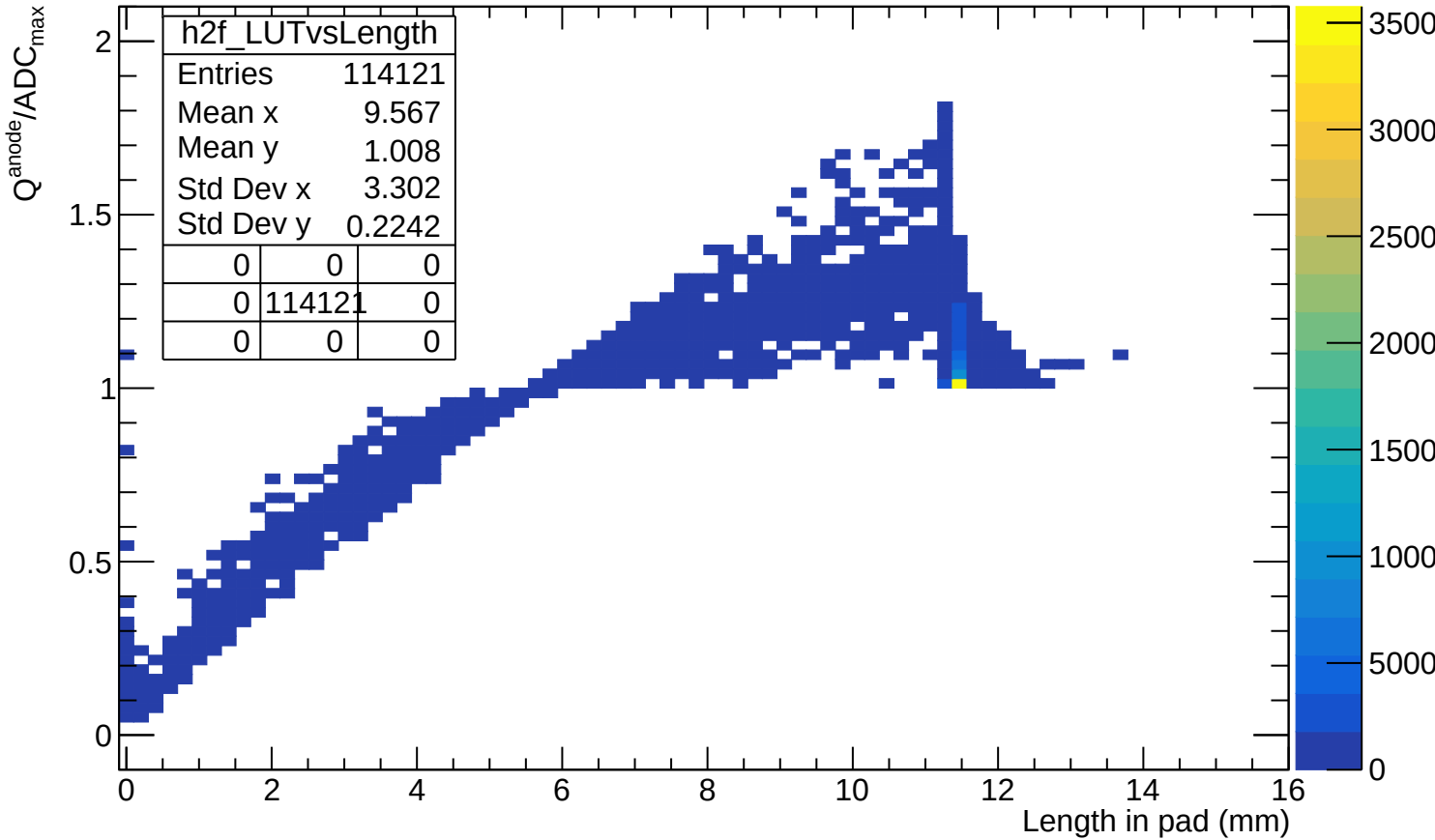

distance of track in cluster
h1f_dist_clus
Entries 95198
Mean 11.47
Std Dev 0.0914
Underflow 0
Overflow 0
distance (mm)

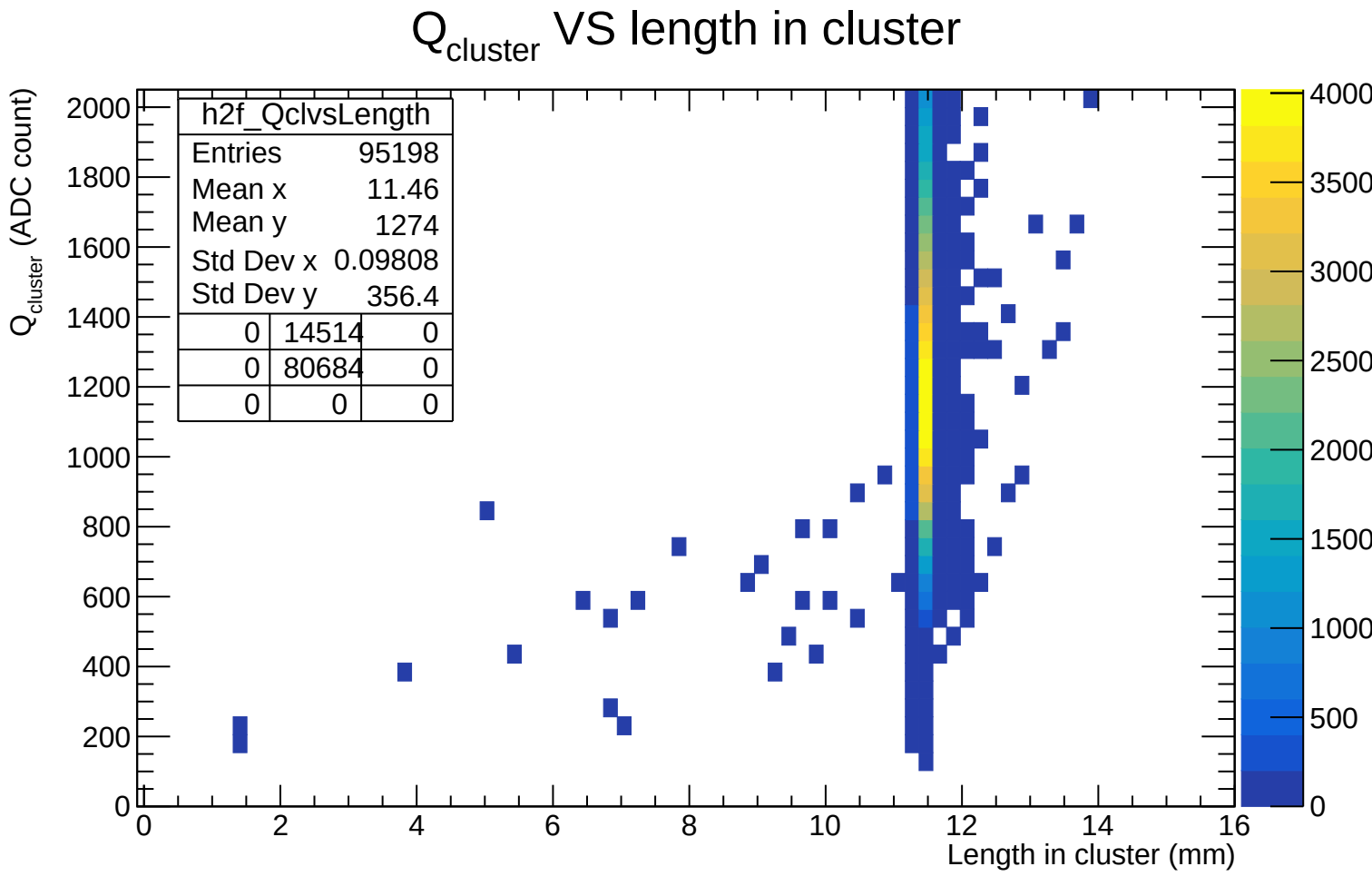

Correction A_{max} ratio
Count
1
0.8
0.6
0.4
0.2
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0

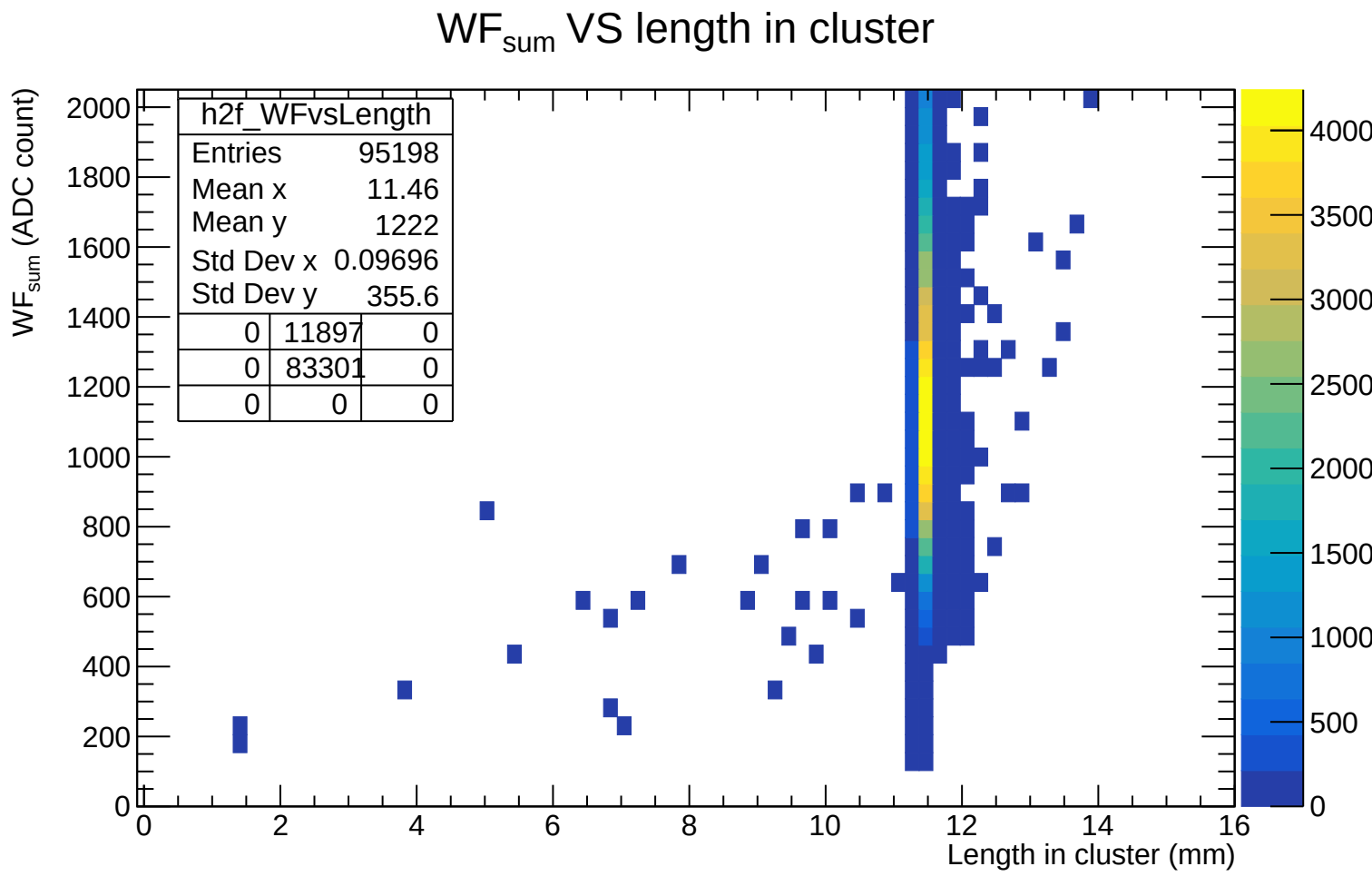

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 107552
Mean x 1.053
Mean y 1.064
Std Dev x 0.1356
Std Dev y 0.1473
0 0 0
0 107552 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 500 1000 1500 2000 2500 3000

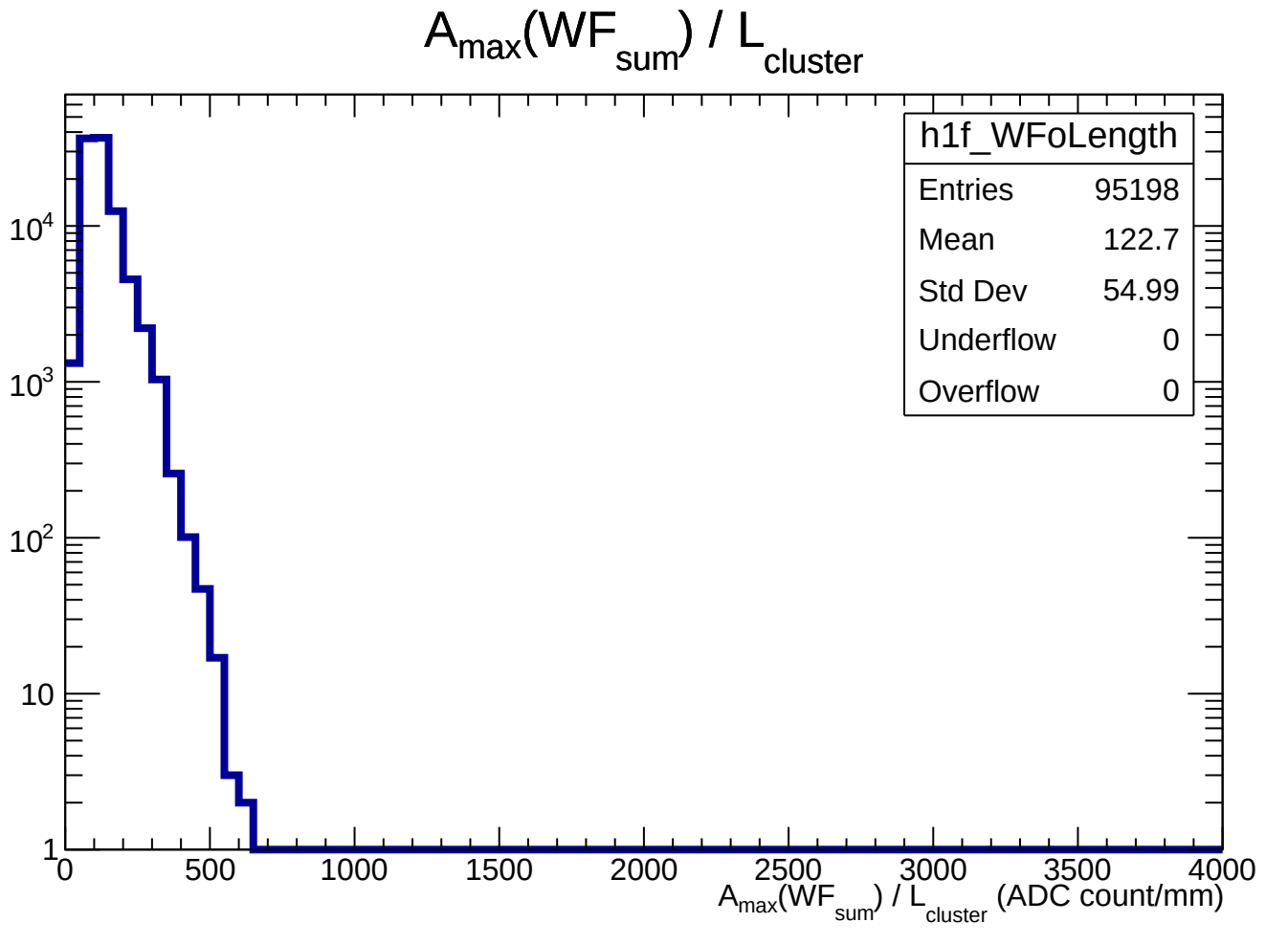

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 114121
Mean x 9.567
Mean y 1078
Std Dev x 3.302
Std Dev y 578.2
0 0 0
0 114121 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16

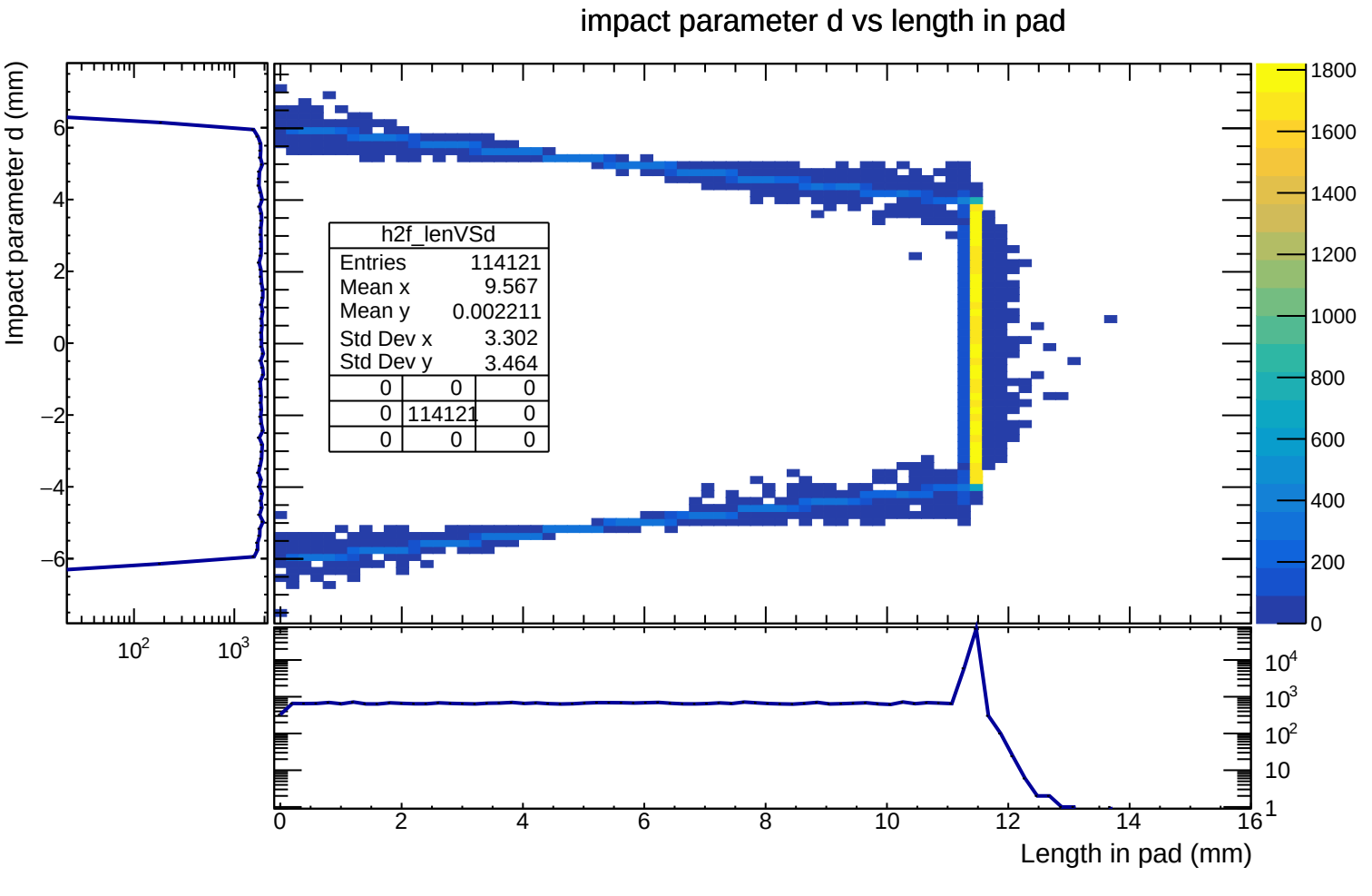

Q^anode VS length in pad (before length cut)
h2f_QvsLength
Entries 114121
Mean x 9.566
Mean y 1120
Std Dev x 3.303
Std Dev y 643.6
0 73 0
0 114048 0
0 0 0
Q^anode
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16


Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 114121
Mean x 9.567
Mean y 1.008
Std Dev x 3.302
Std Dev y 0.2242
0 0 0
0 114121 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
0
500
1000
1500
2000
2500
3000
3500


$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 95198
Mean x 11.46
Mean y 1274
Std Dev x 0.09808
Std Dev y 356.4
0 14514 0
0 80684 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
0 500 1000 1500 2000 2500 3000 3500 4000


WF_sum VS length in cluster
h2f_WFvsLength
Entries 95198
Mean x 11.46
Mean y 1222
Std Dev x 0.09696
Std Dev y 355.6
0 11897 0
0 83301 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
500
1000
1500
2000
2500
3000
3500
4000


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 95198
Mean 122.7
Std Dev 54.99
Underflow 0
Overflow 0
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 114121
Mean x 9.567
Mean y 0.002211
Std Dev x 3.302
Std Dev y 3.464
0 0 0
0 114121 0
0 0 0