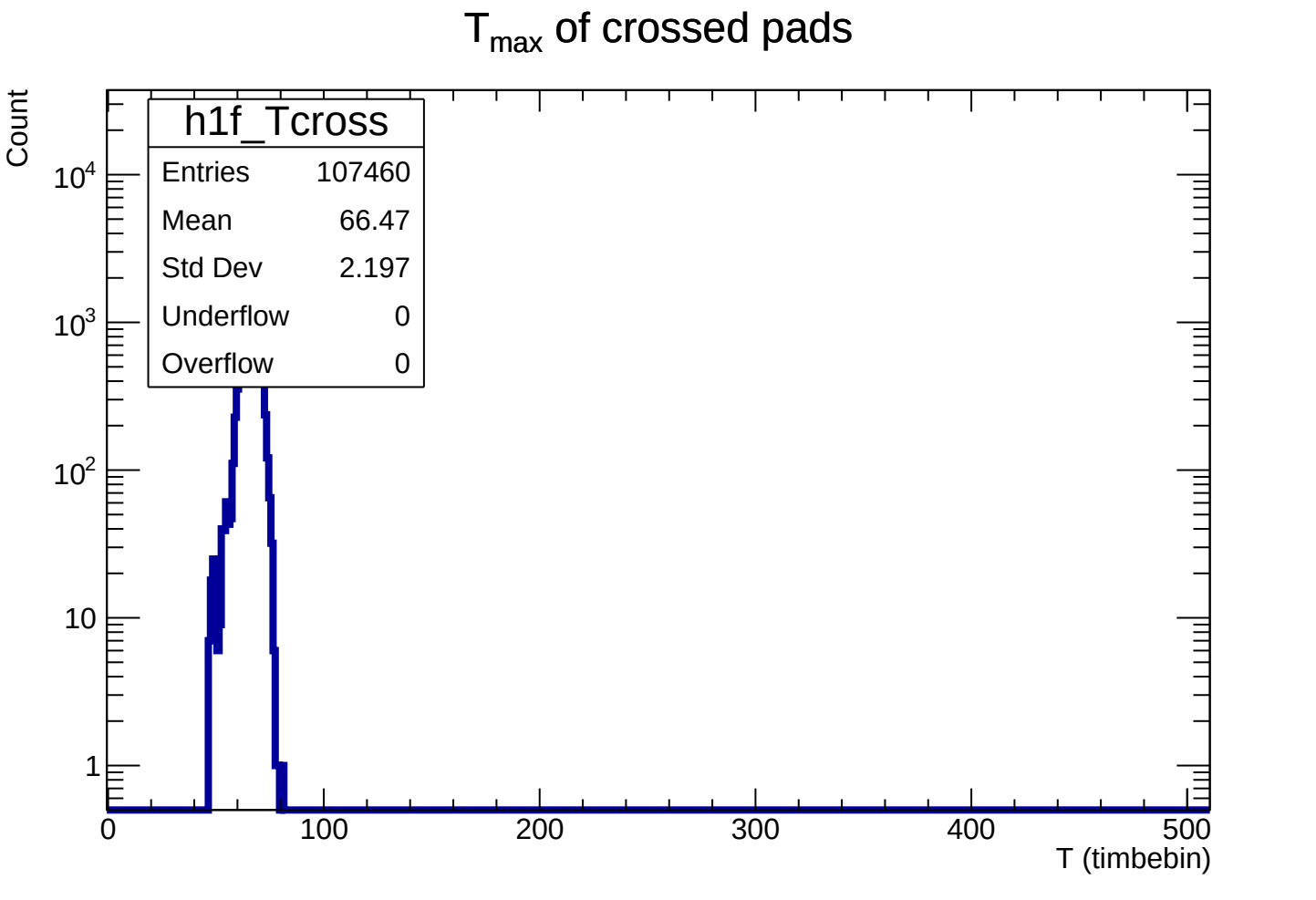
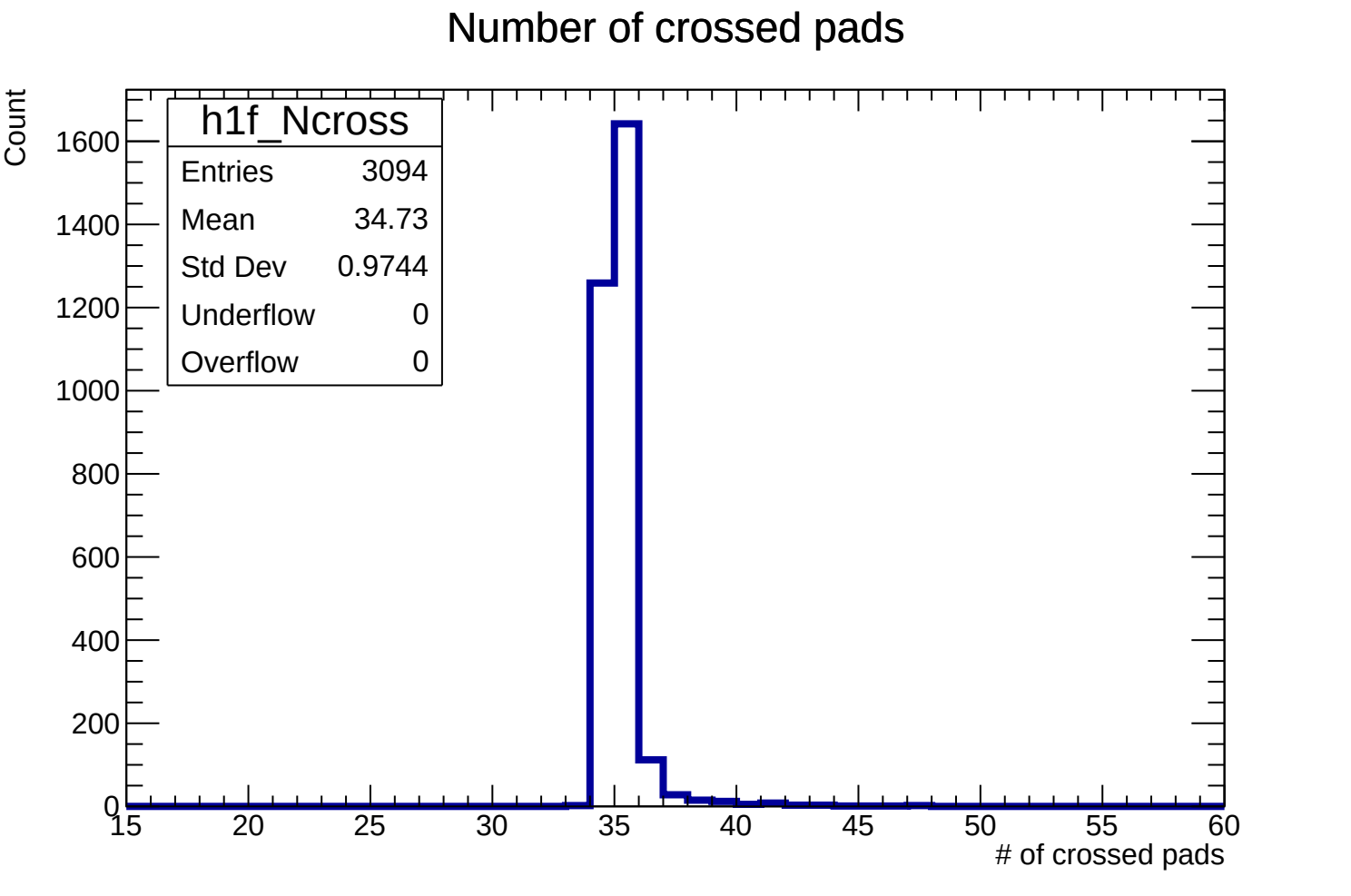
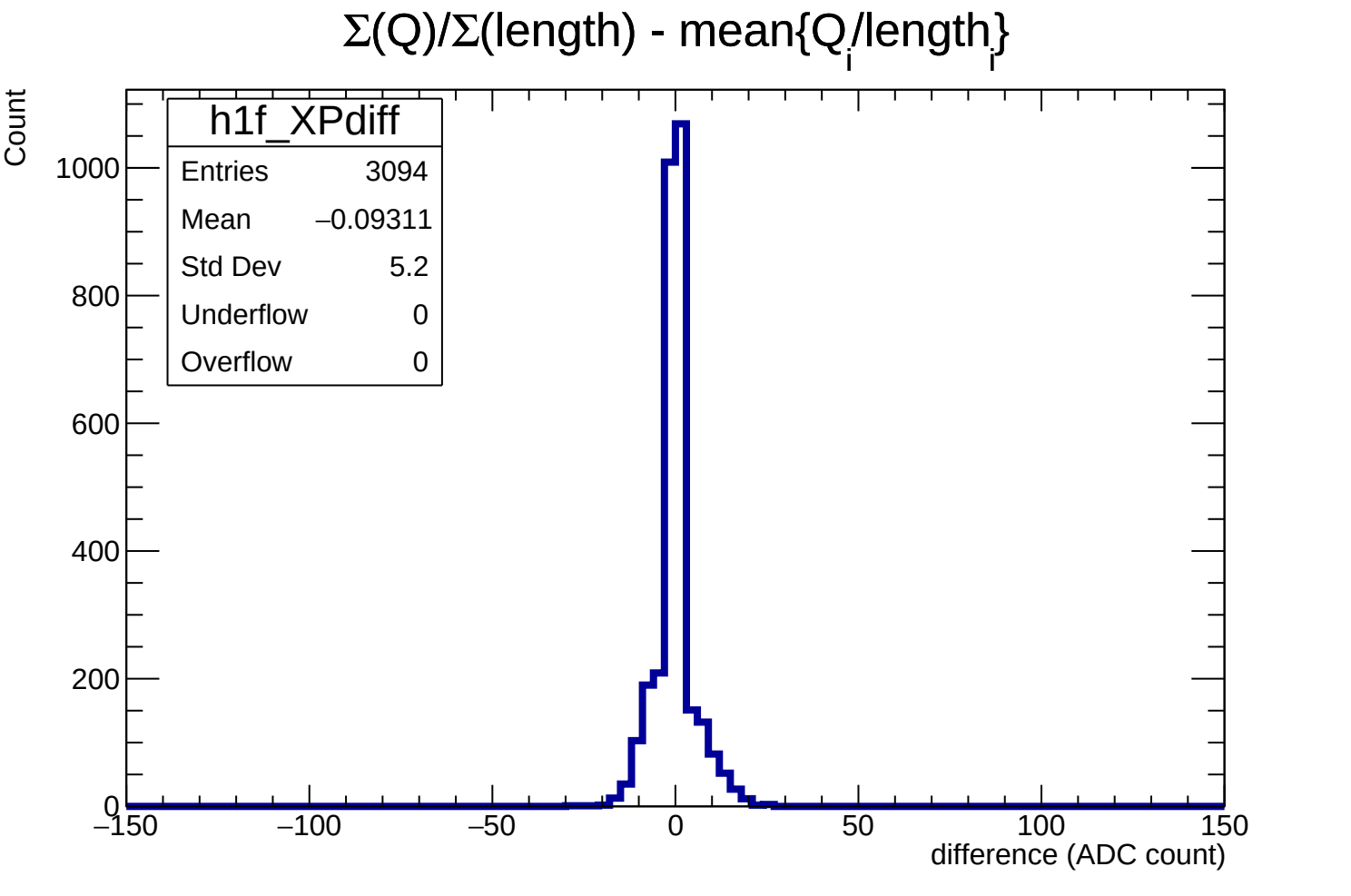
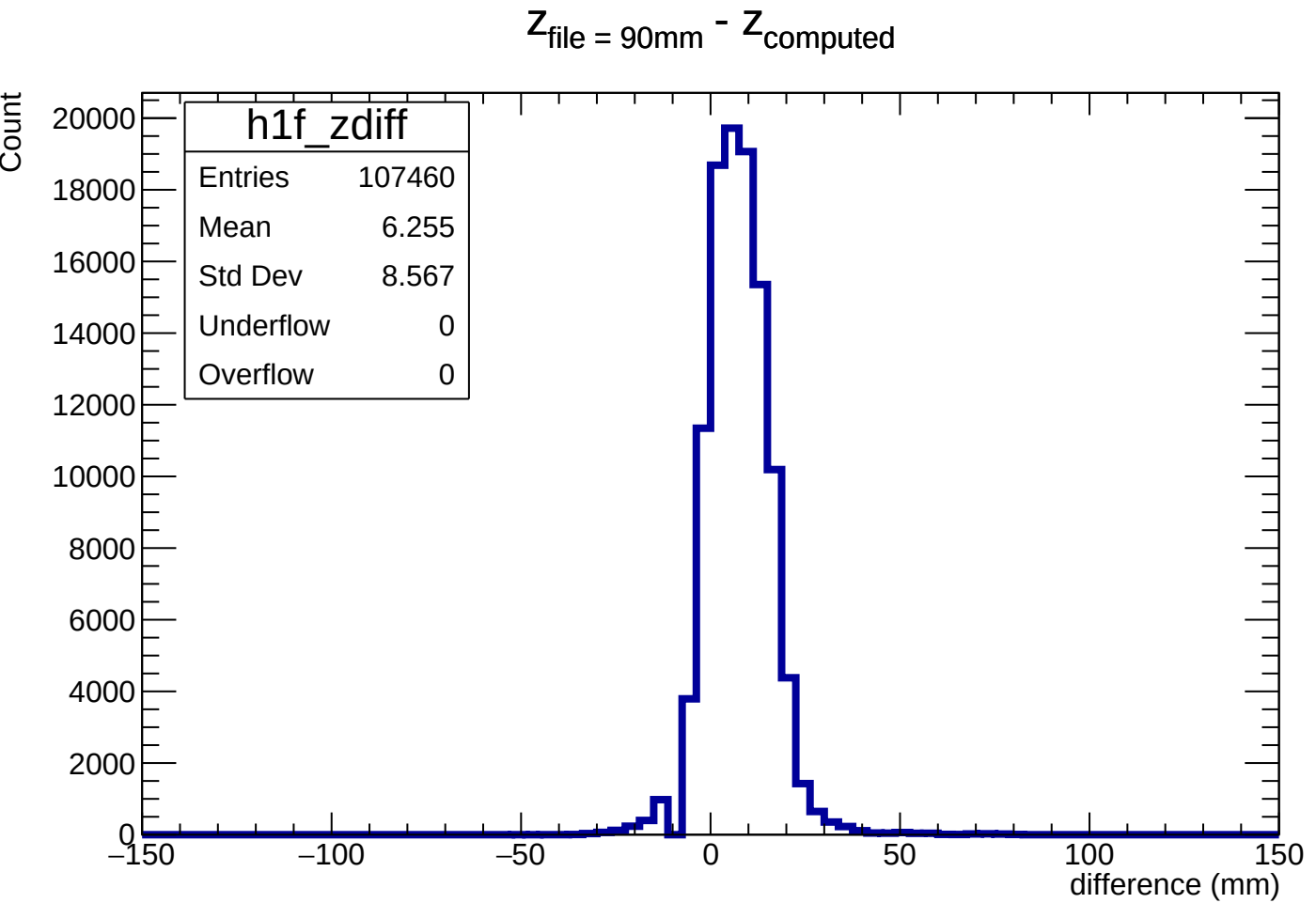
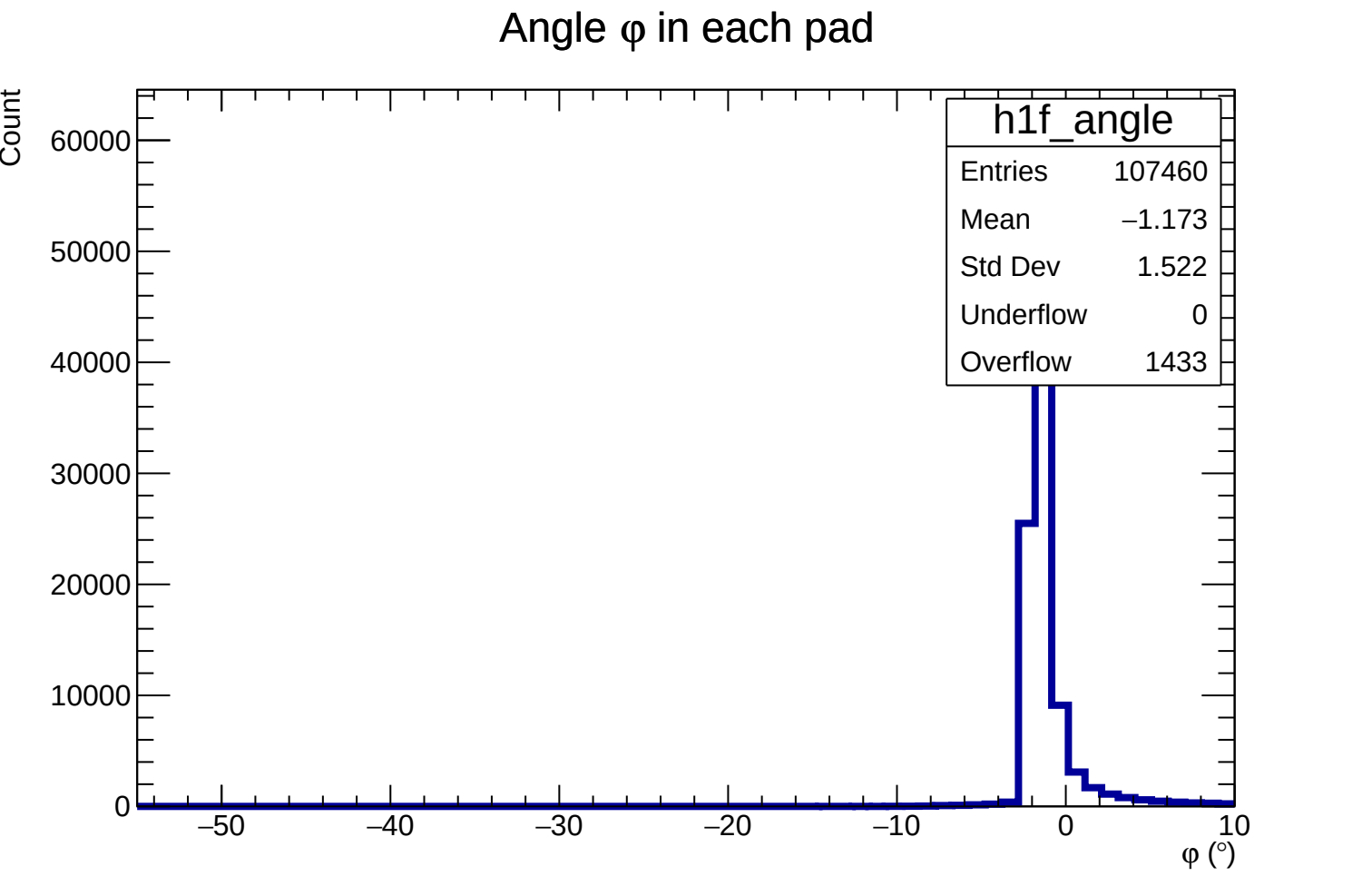
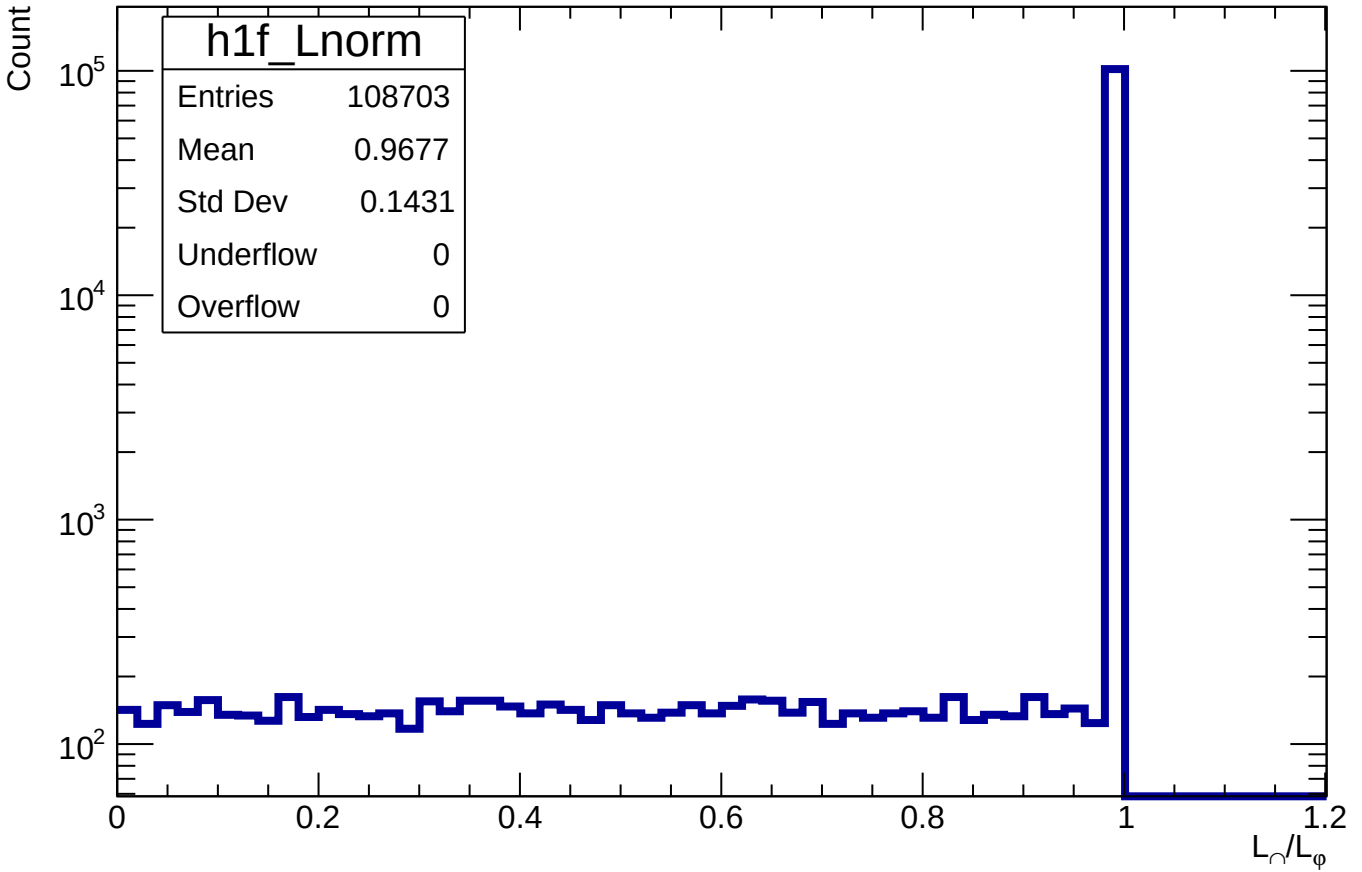

T_{max} of crossed pads
h1f_Tcross
Entries 107460
Mean 66.47
Std Dev 2.197
Underflow 0
Overflow 0
Count
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

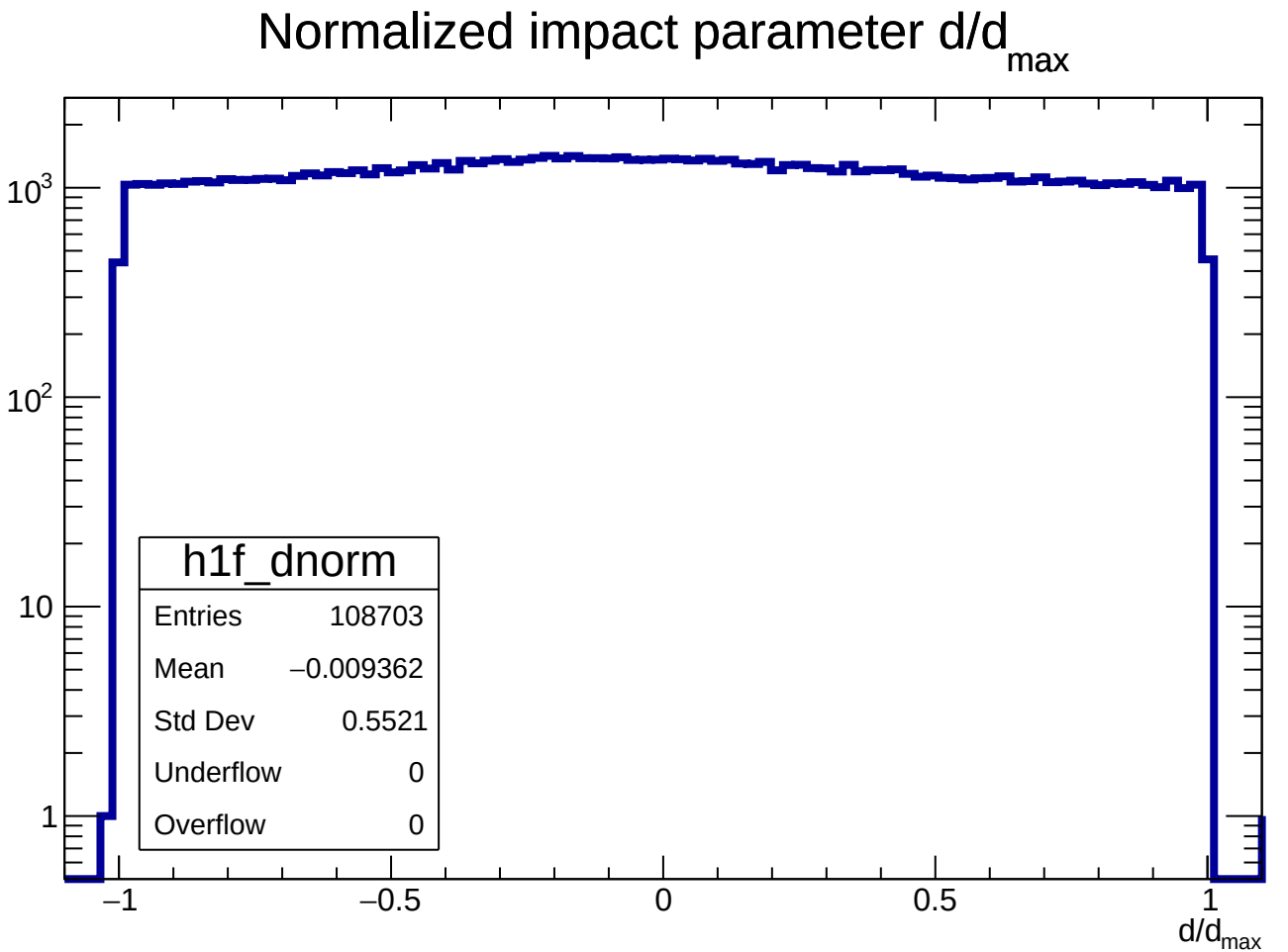

Number of crossed pads
h1f_Ncross
Entries 3094
Mean 34.73
Std Dev 0.9744
Underflow 0
Overflow 0
Count
0
200
400
600
800
1000
1200
1400
1600
15
20
25
30
35
40
45
50
55
60
# of crossed pads

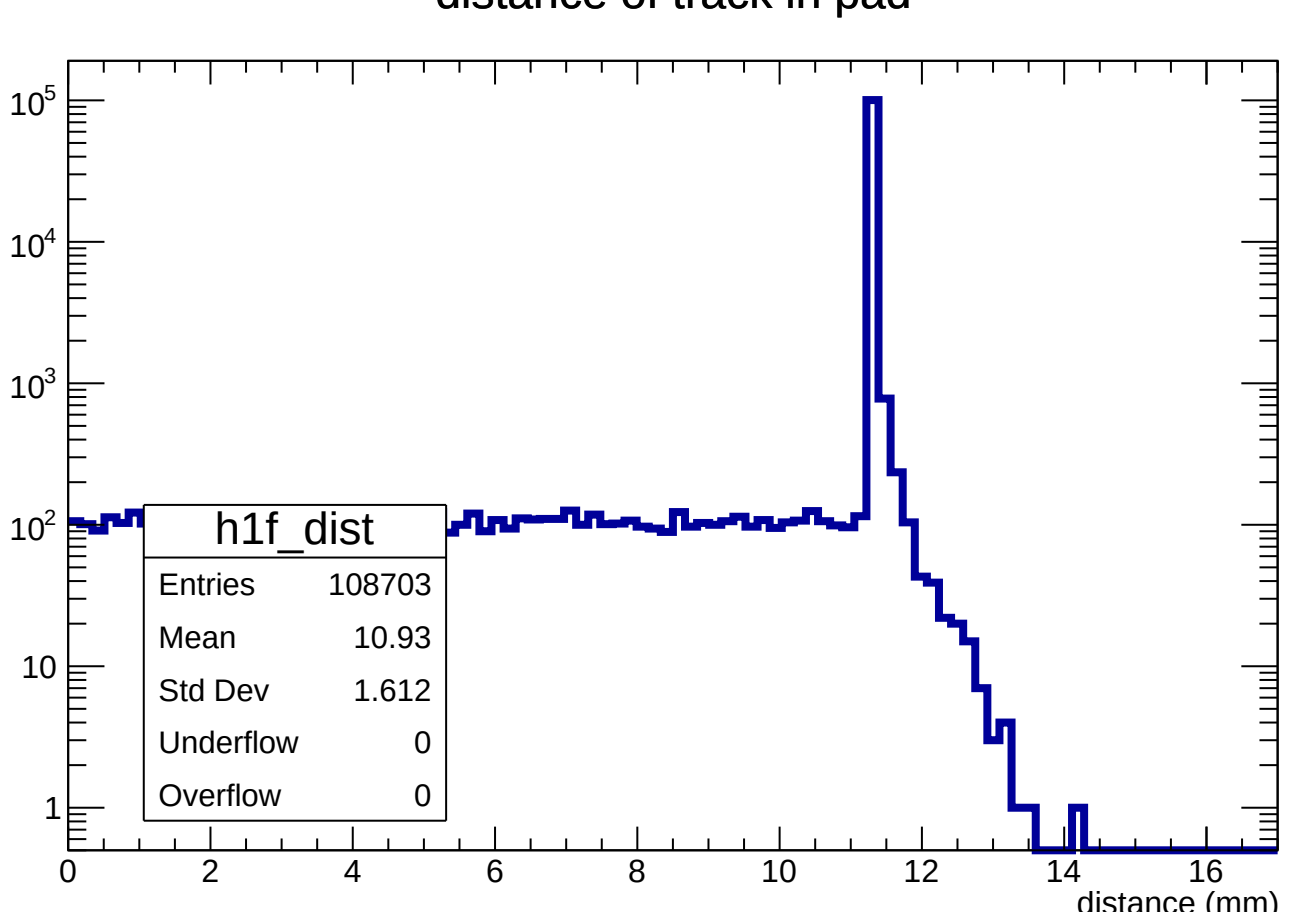

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 3094
Mean –0.09311
Std Dev 5.2
Underflow 0
Overflow 0
Count
1000
800
600
400
200
0
–150
–100
–50
0
50
100
150
difference (ADC count)

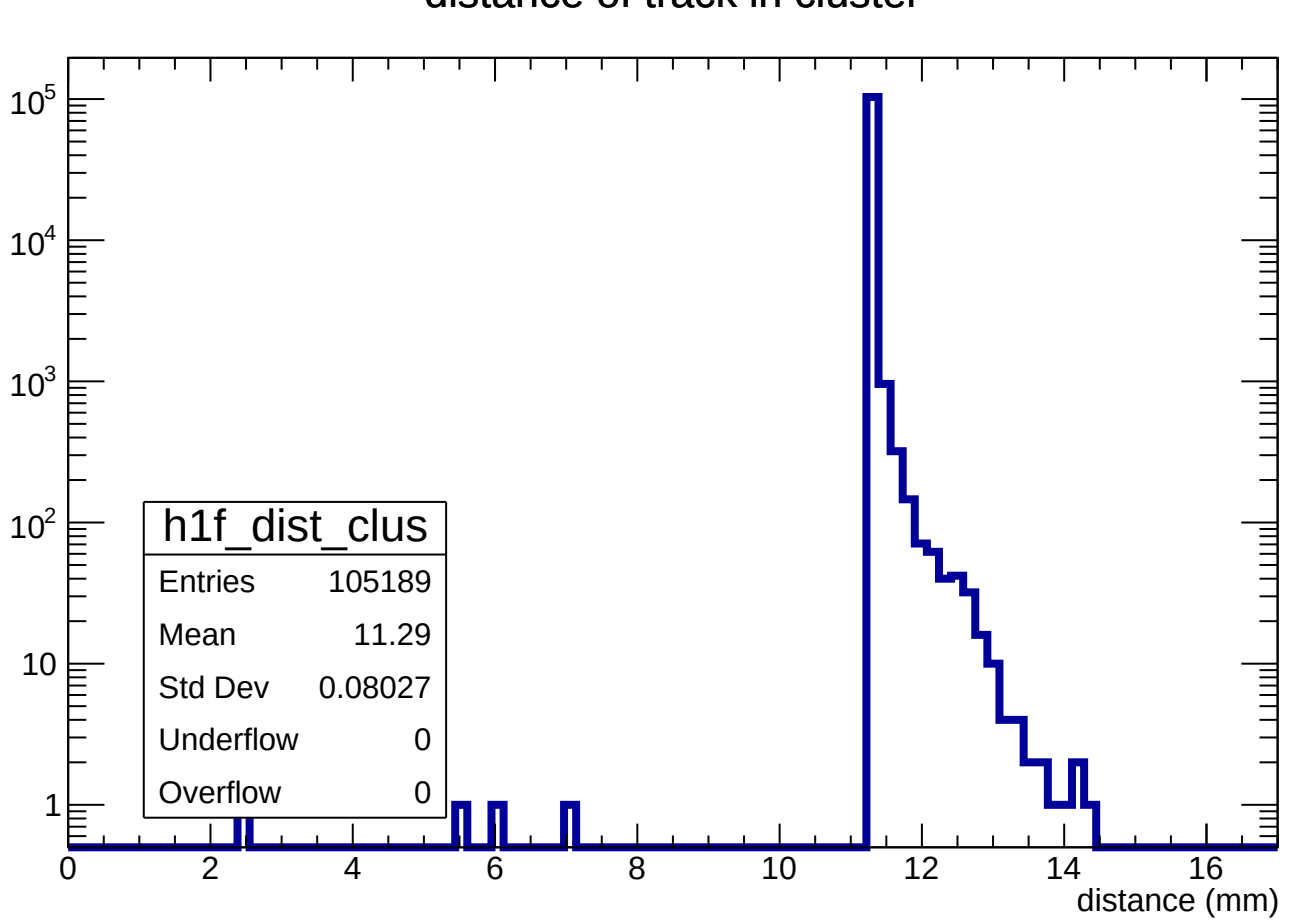

$z_{file = 90mm} - z_{computed}$
h1f_zdiff
Entries 107460
Mean 6.255
Std Dev 8.567
Underflow 0
Overflow 0
Count
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−150
−100
−50
0
50
100
150
difference (mm)

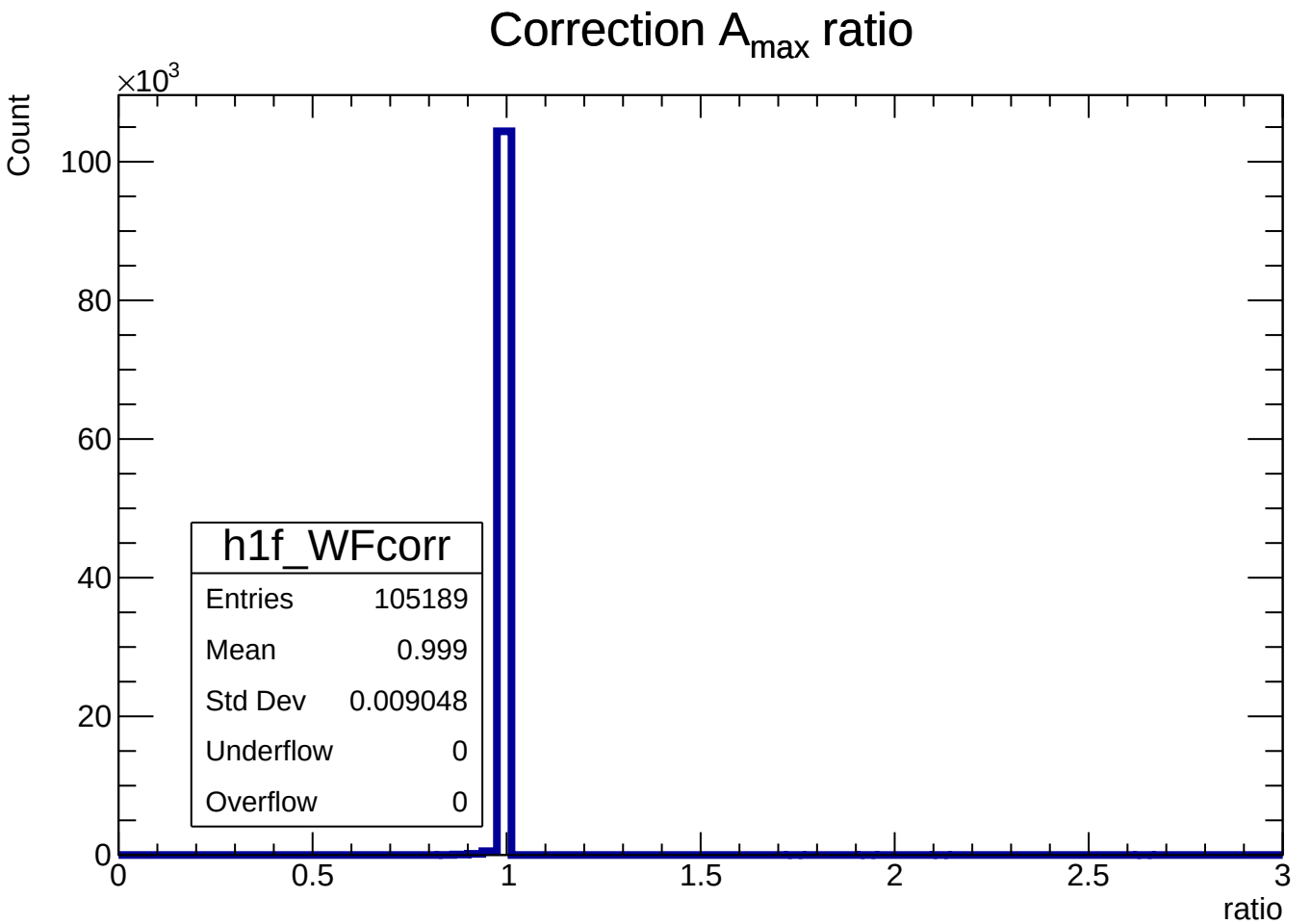

Angle φ in each pad
Count
60000
50000
40000
30000
20000
10000
0
–50
–40
–30
–20
–10
0
10
φ (°)
h1f_angle
Entries 107460
Mean –1.173
Std Dev 1.522
Underflow 0
Overflow 1433

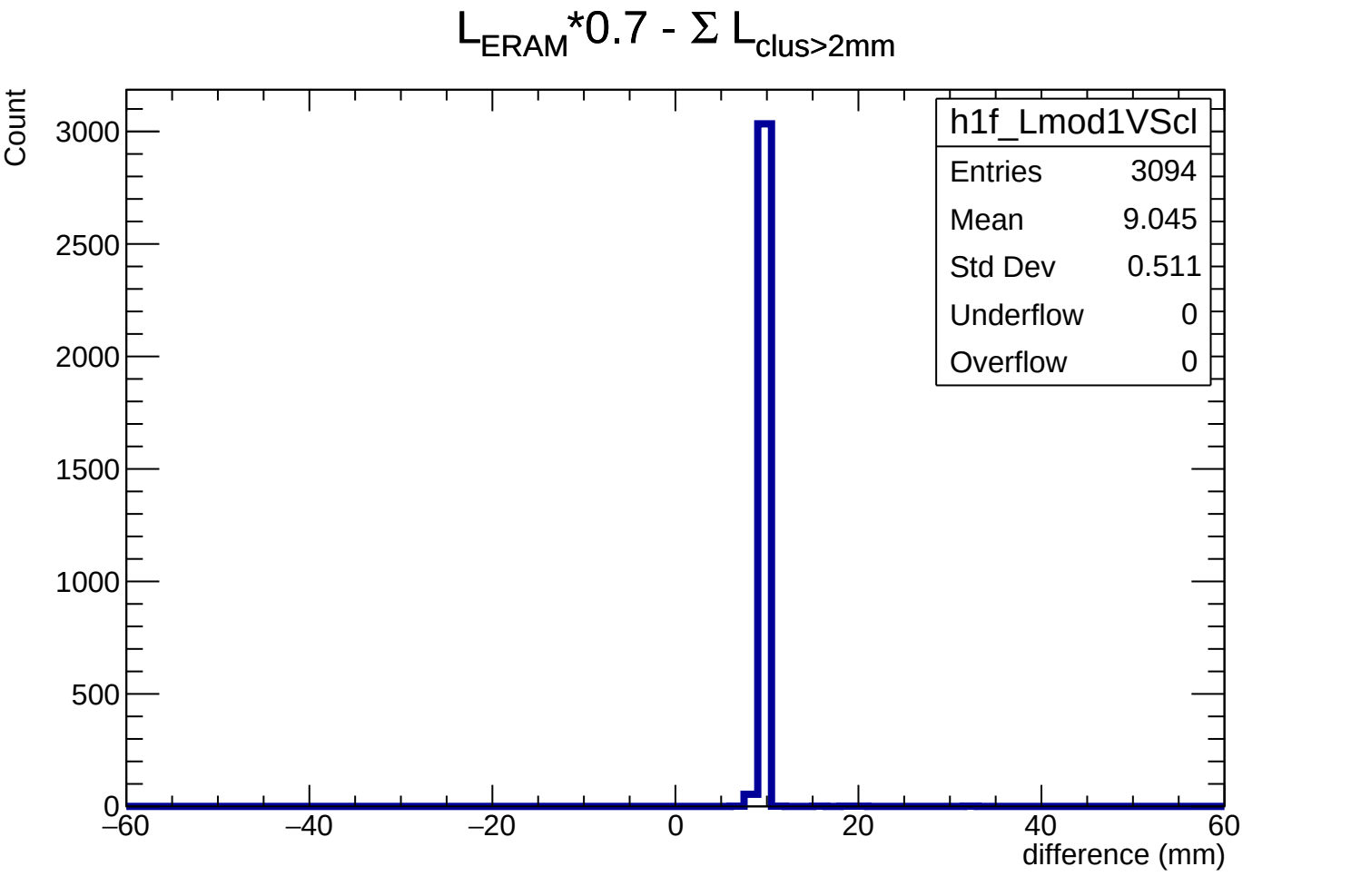

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 108703
Mean 0.9677
Std Dev 0.1431
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
10^2
0
0.2
0.4
0.6
0.8
1
1.2
$L_{\cap}/L_{\varphi}$

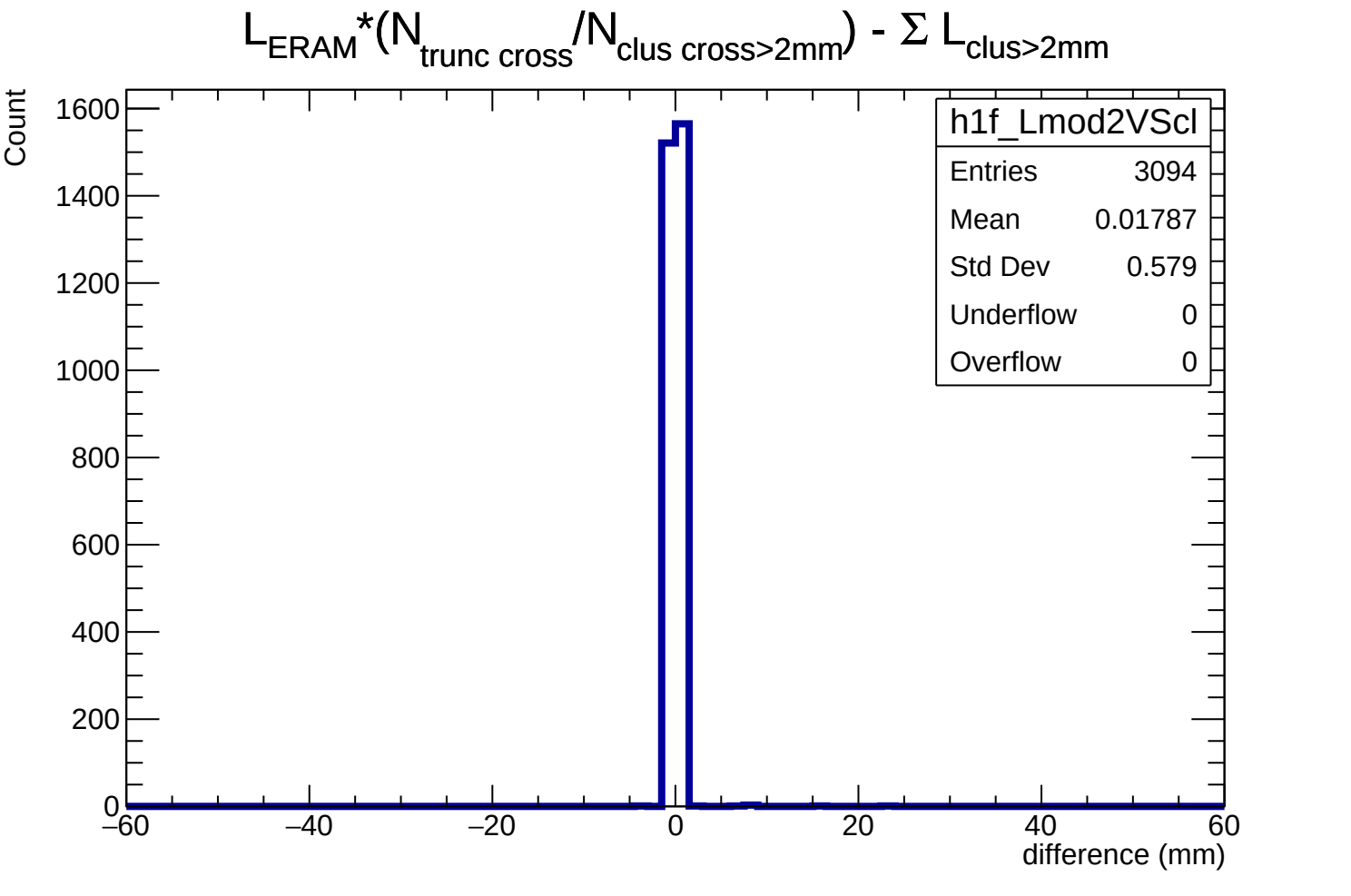

Normalized impact parameter d/d max
10 3
10 2
10
1
h1f_dnorm
Entries 108703
Mean −0.009362
Std Dev 0.5521
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

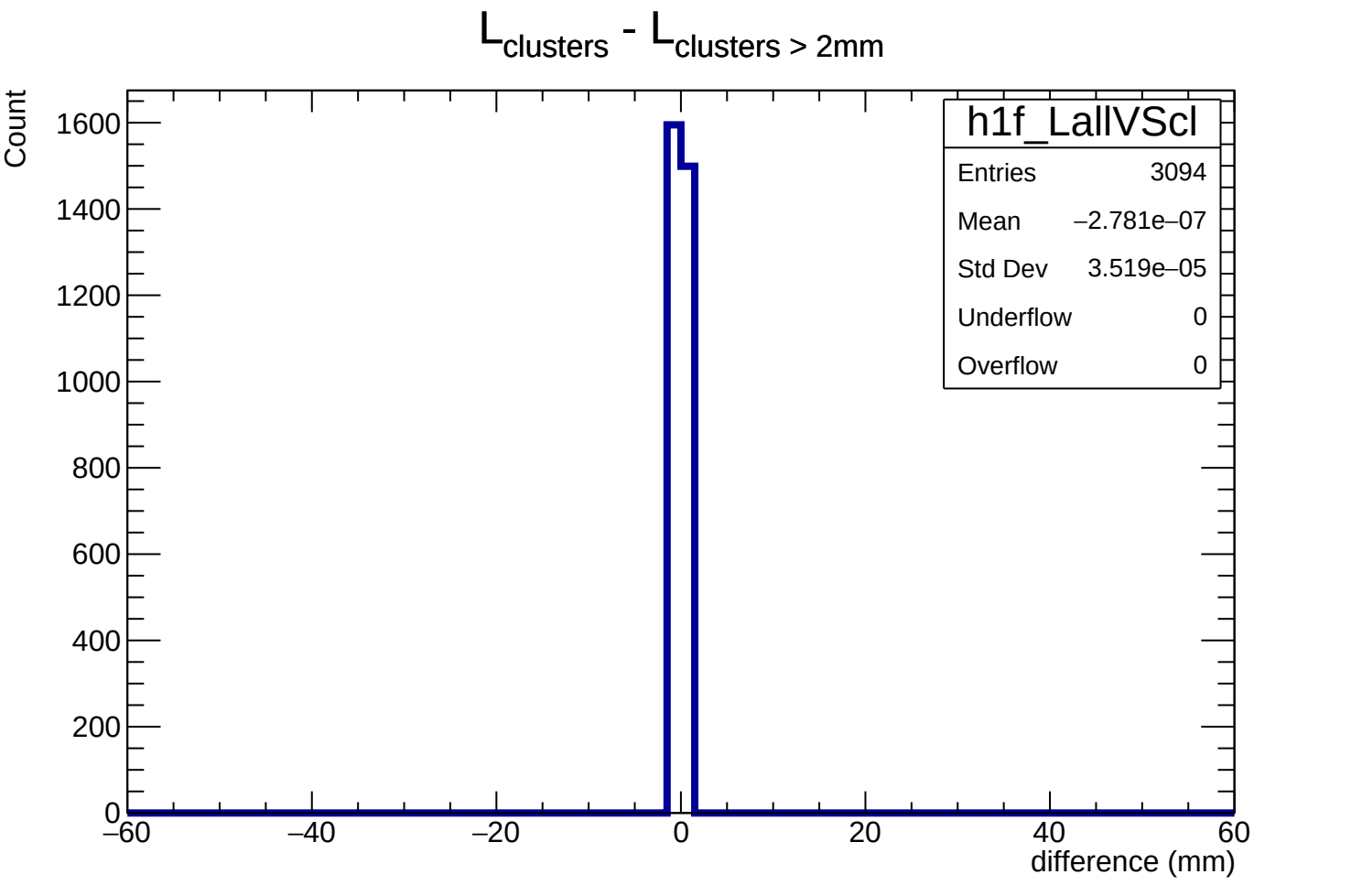

distance of track in pad
h1f_dist
Entries 108703
Mean 10.93
Std Dev 1.612
Underflow 0
Overflow 0
distance (mm)

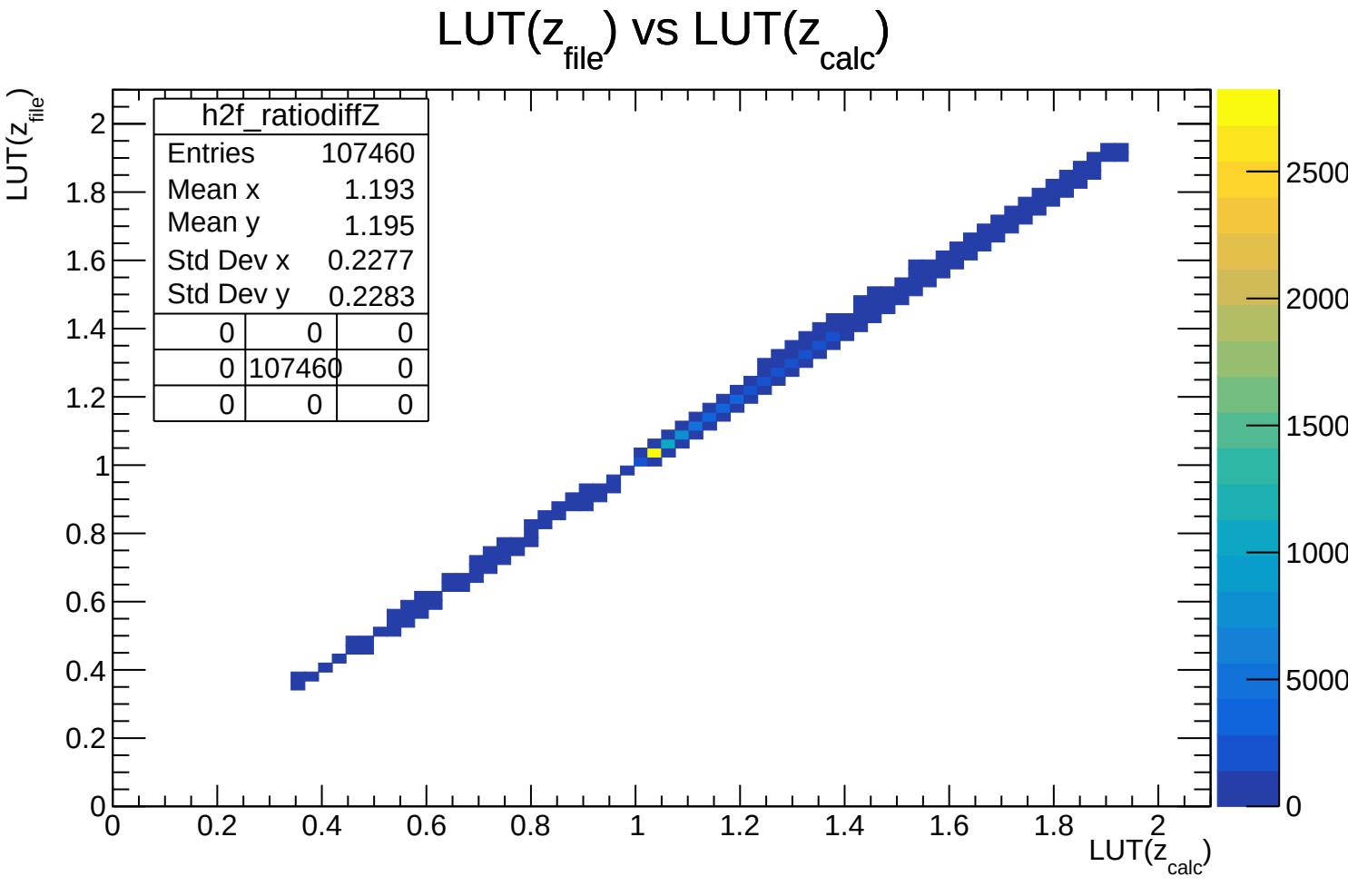

distance of track in cluster
h1f_dist_clus
Entries 105189
Mean 11.29
Std Dev 0.08027
Underflow 0
Overflow 0
distance (mm)

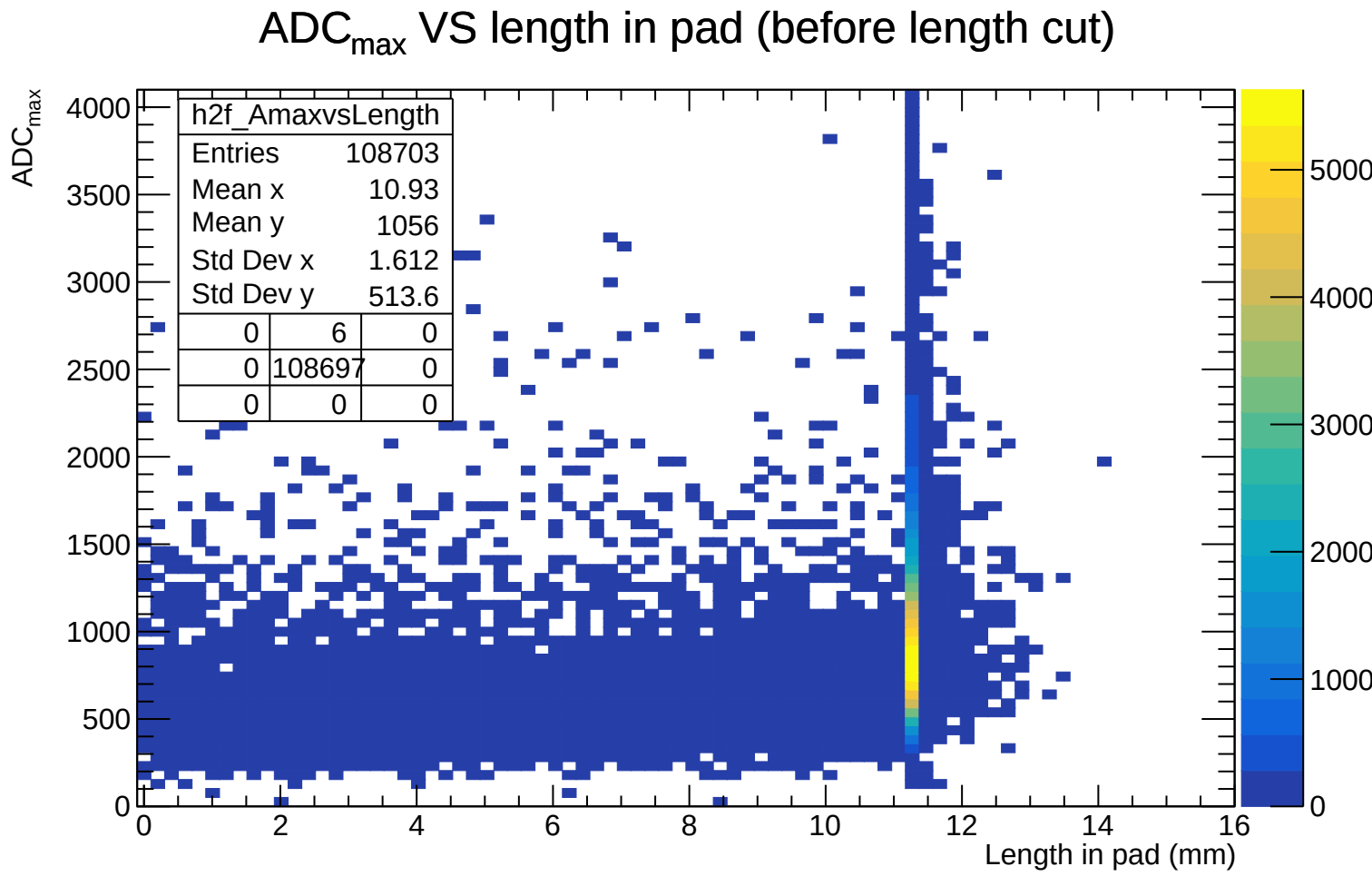

Correction A_{max} ratio
$\times 10^3$
Count
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 105189
Mean 0.999
Std Dev 0.009048
Underflow 0
Overflow 0

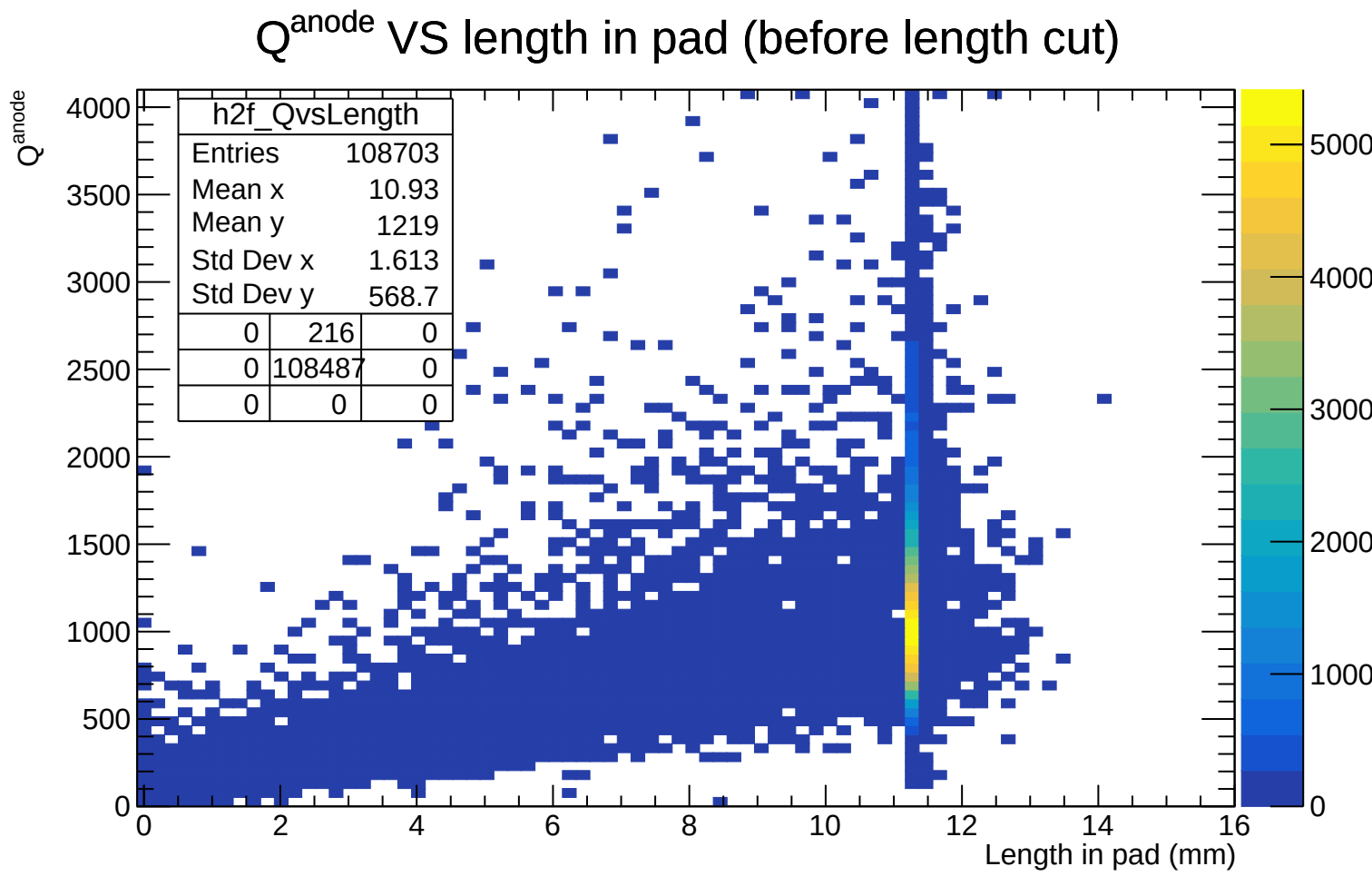

L_{ERAM}*0.7 - Σ $L_{clus>2mm}$
Count
3000
2500
2000
1500
1000
500
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod1VScl
Entries 3094
Mean 9.045
Std Dev 0.511
Underflow 0
Overflow 0

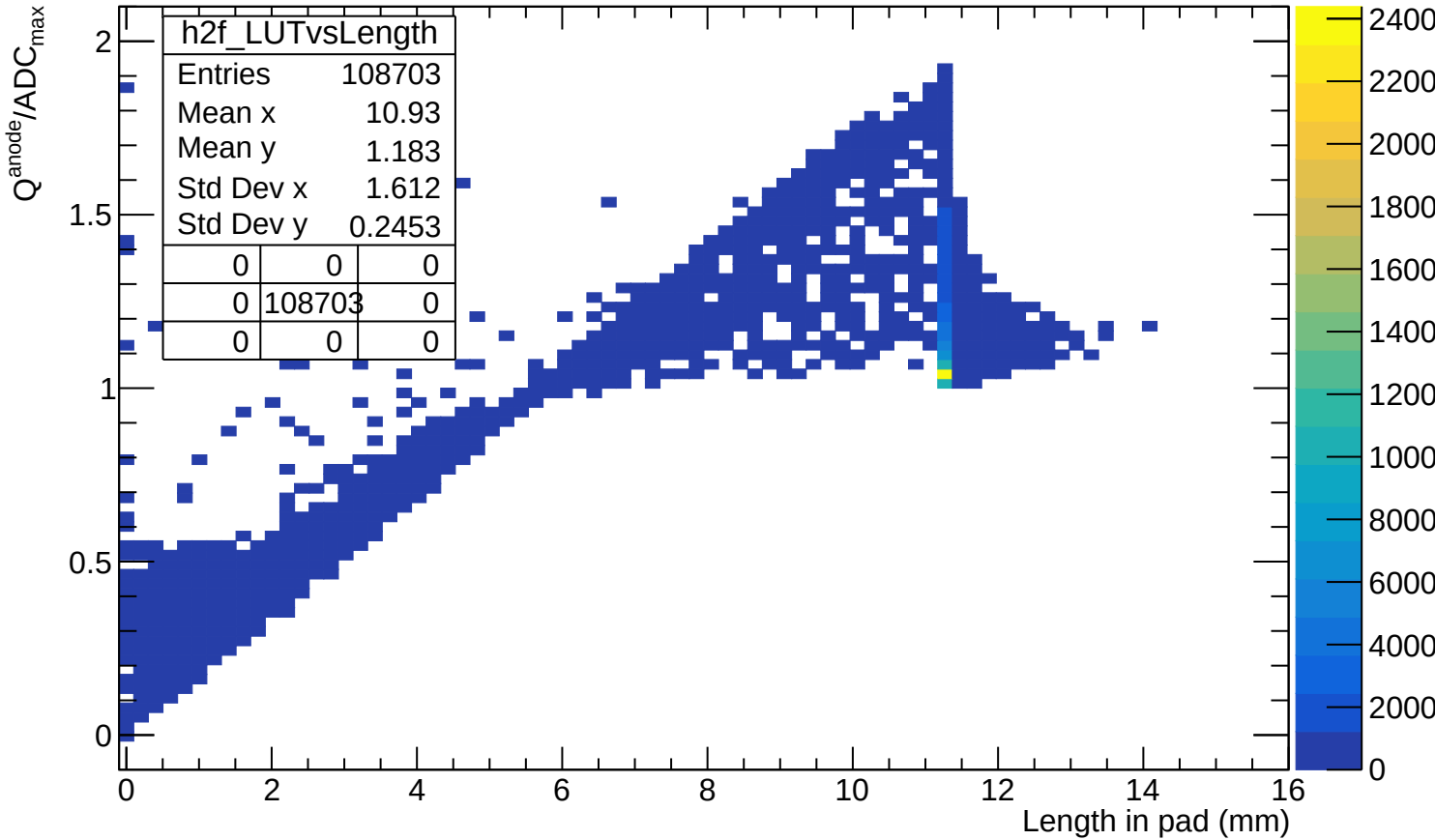

$L_{ERAM}*(N_{trunc\ cross}/N_{clus\ cross>2mm}) - \Sigma\ L_{clus>2mm}$
Count
1600
1400
1200
1000
800
600
400
200
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_Lmod2VScl
Entries 3094
Mean 0.01787
Std Dev 0.579
Underflow 0
Overflow 0

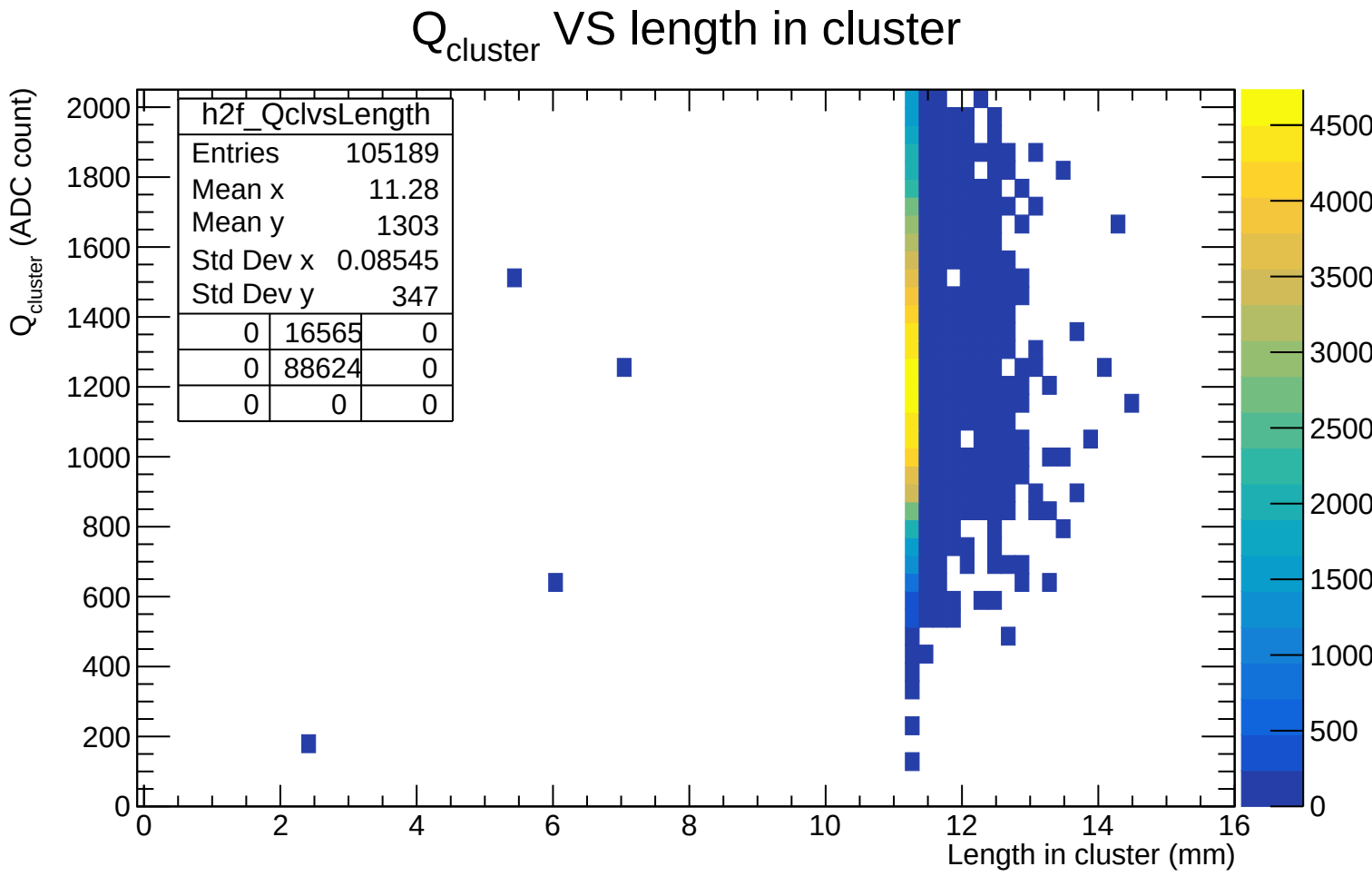

L clusters - L clusters > 2mm
Count
1600
1400
1200
1000
800
600
400
200
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_LallVScl
Entries 3094
Mean –2.781e–07
Std Dev 3.519e–05
Underflow 0
Overflow 0

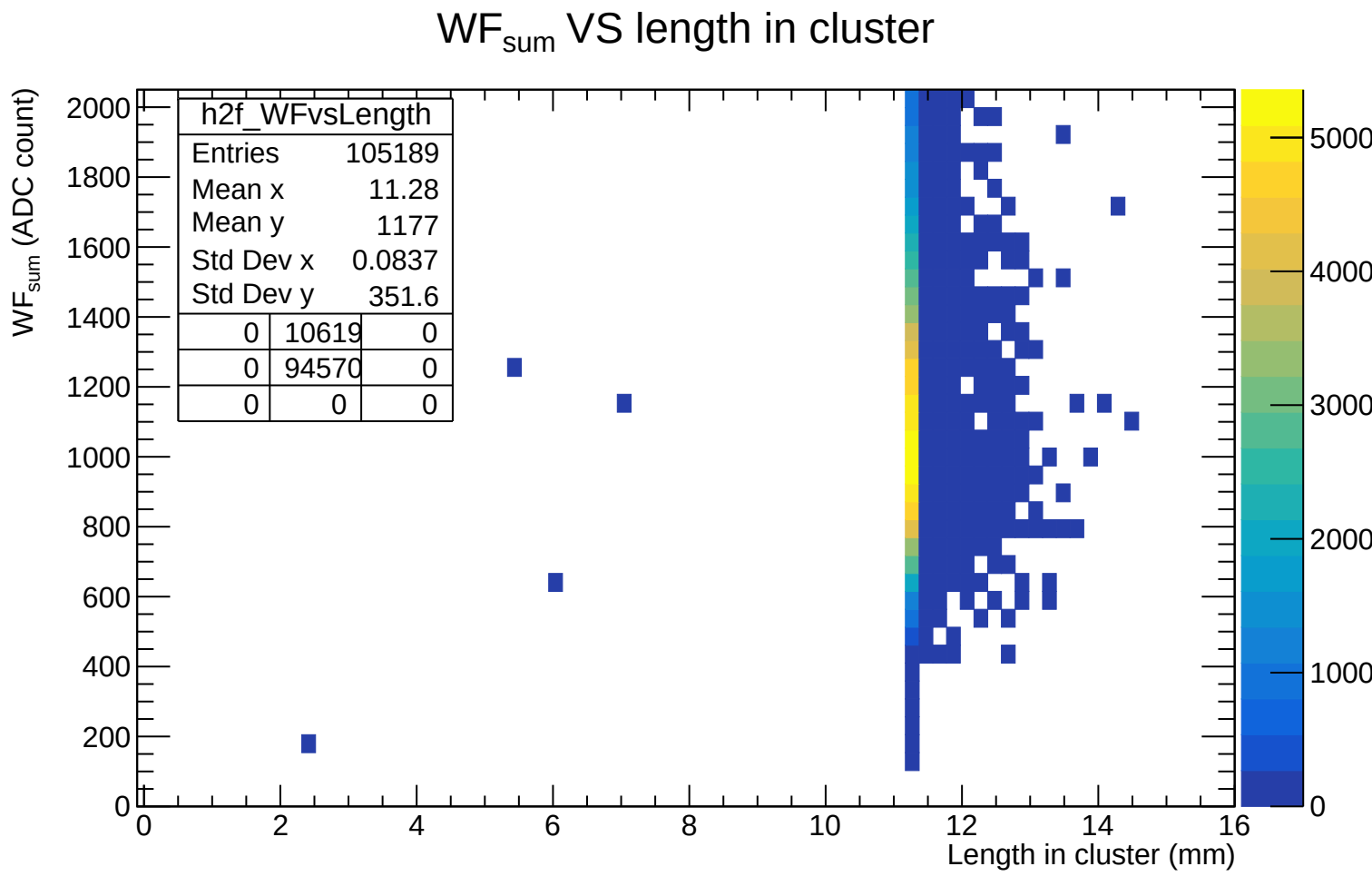

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 107460
Mean x 1.193
Mean y 1.195
Std Dev x 0.2277
Std Dev y 0.2283
0 0 0
0 107460 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5000 1000 1500 2000 2500

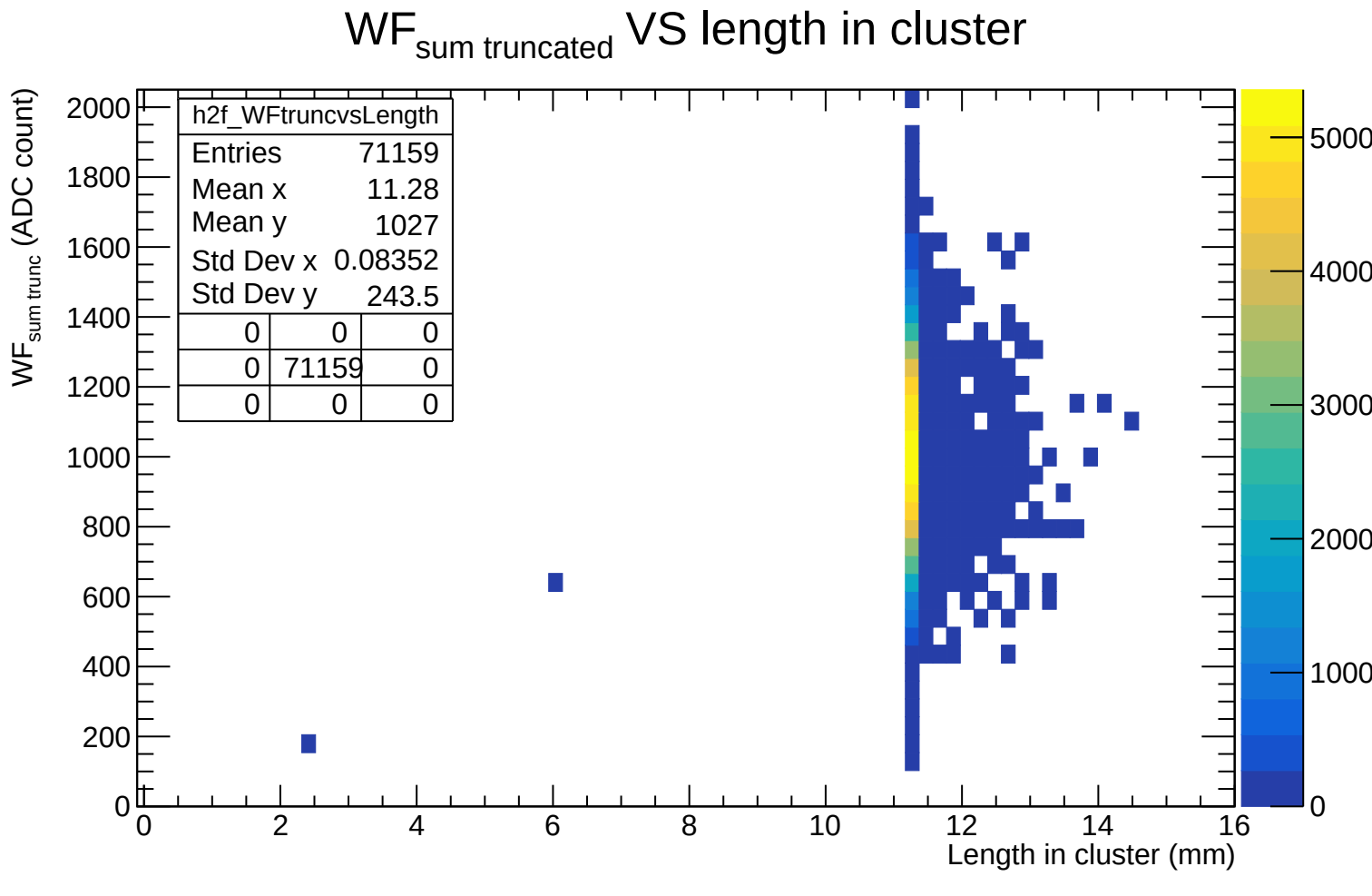

ADC_max VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 108703
Mean x 10.93
Mean y 1056
Std Dev x 1.612
Std Dev y 513.6
0 6 0
0 108697 0
0 0 0
ADC_max
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
1000
2000
3000
4000
5000

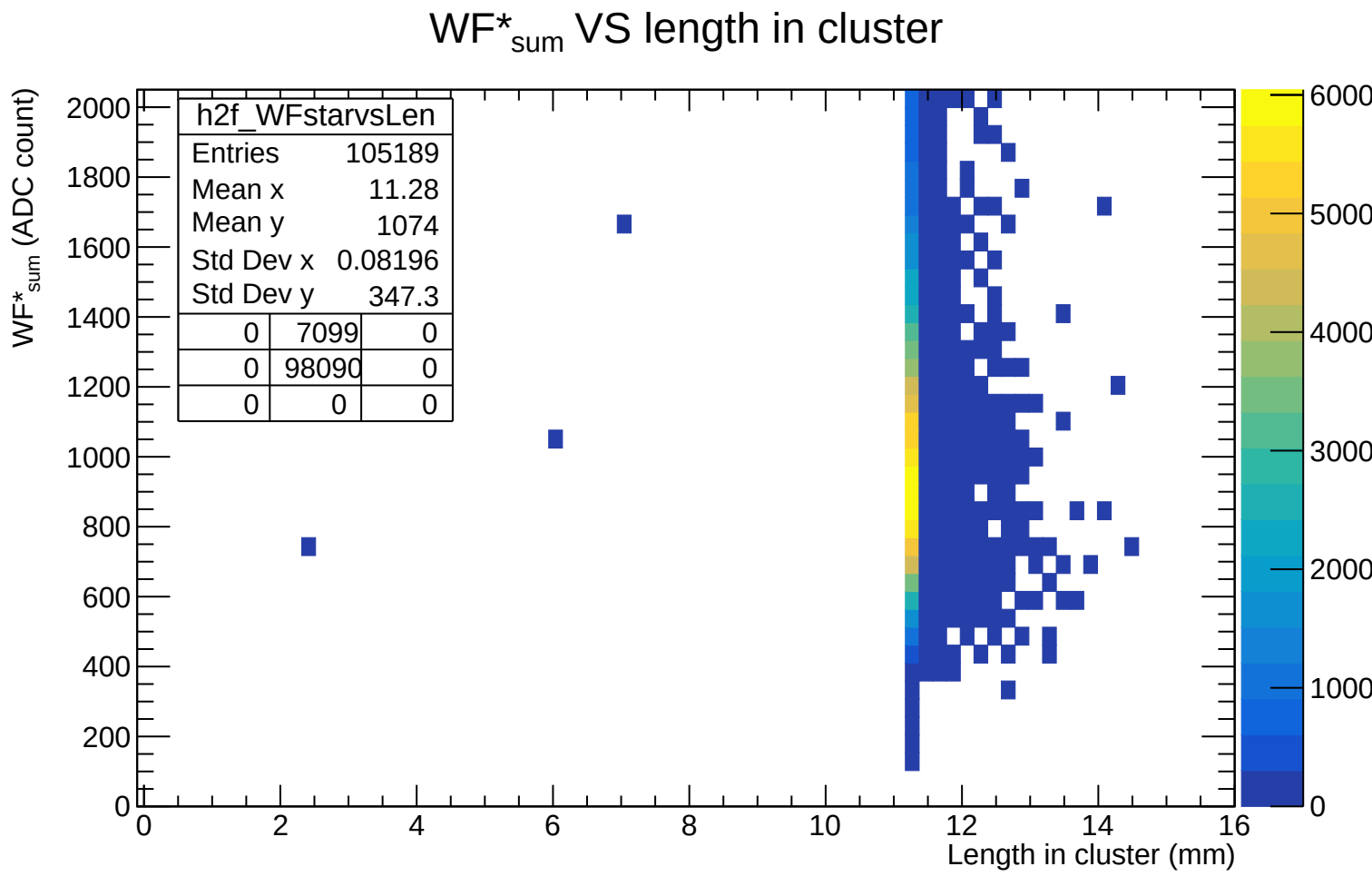

Q^anode VS length in pad (before length cut)
Q^anode
Length in pad (mm)
h2f_QvsLength
Entries 108703
Mean x 10.93
Mean y 1219
Std Dev x 1.613
Std Dev y 568.7
0 216 0
0 108487 0
0 0 0
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
0
1000
2000
3000
4000
5000

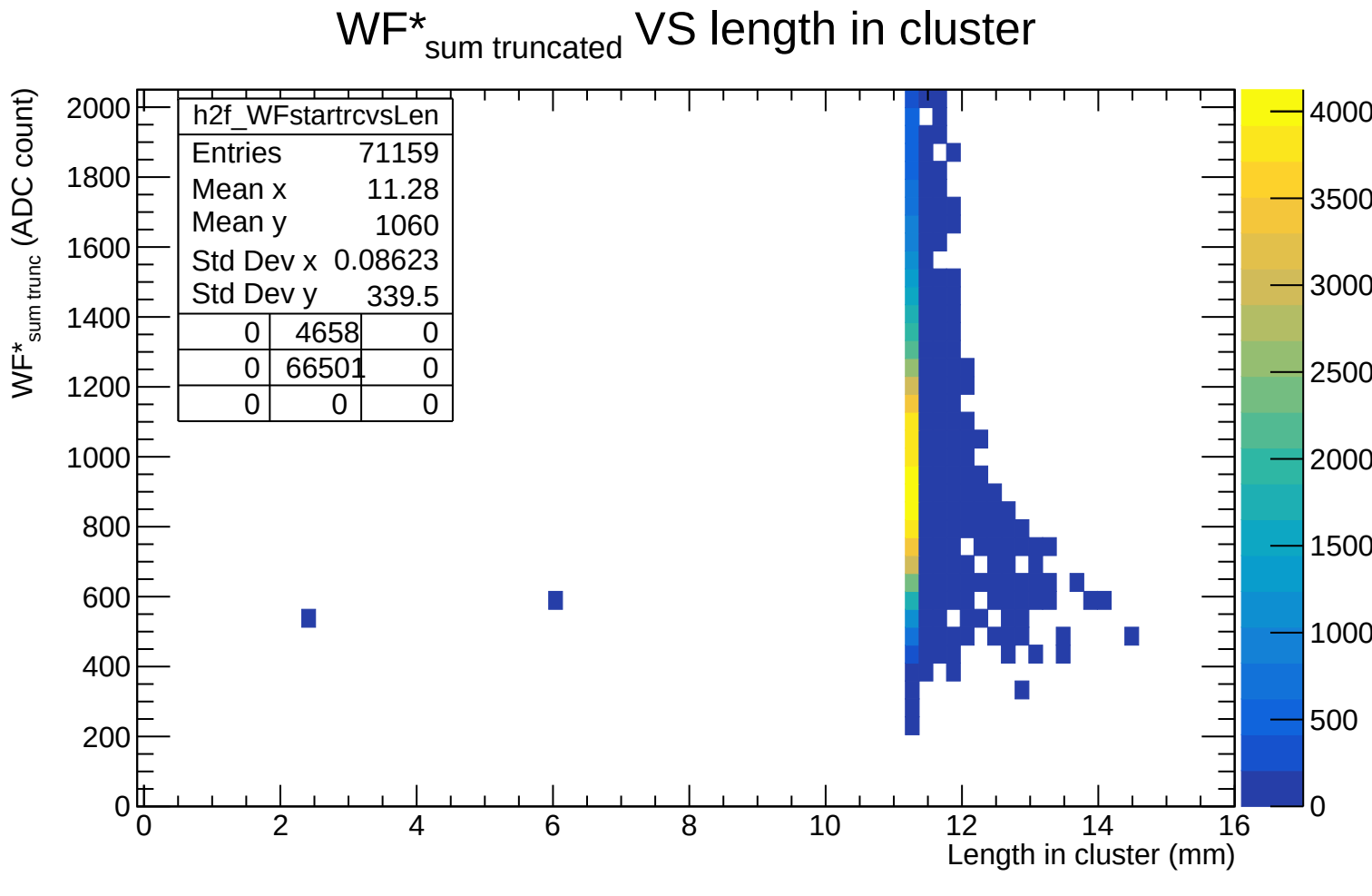

Q^{anode}/ADC_{max} VS length in pad (before length cut)
h2f_LUTvsLength
Entries 108703
Mean x 10.93
Mean y 1.183
Std Dev x 1.612
Std Dev y 0.2453
0 0 0
0 108703 0
0 0 0
Q^{anode}/ADC_{max}
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
2000
4000
6000
8000
1000
1200
1400
1600
1800
2000
2200
2400

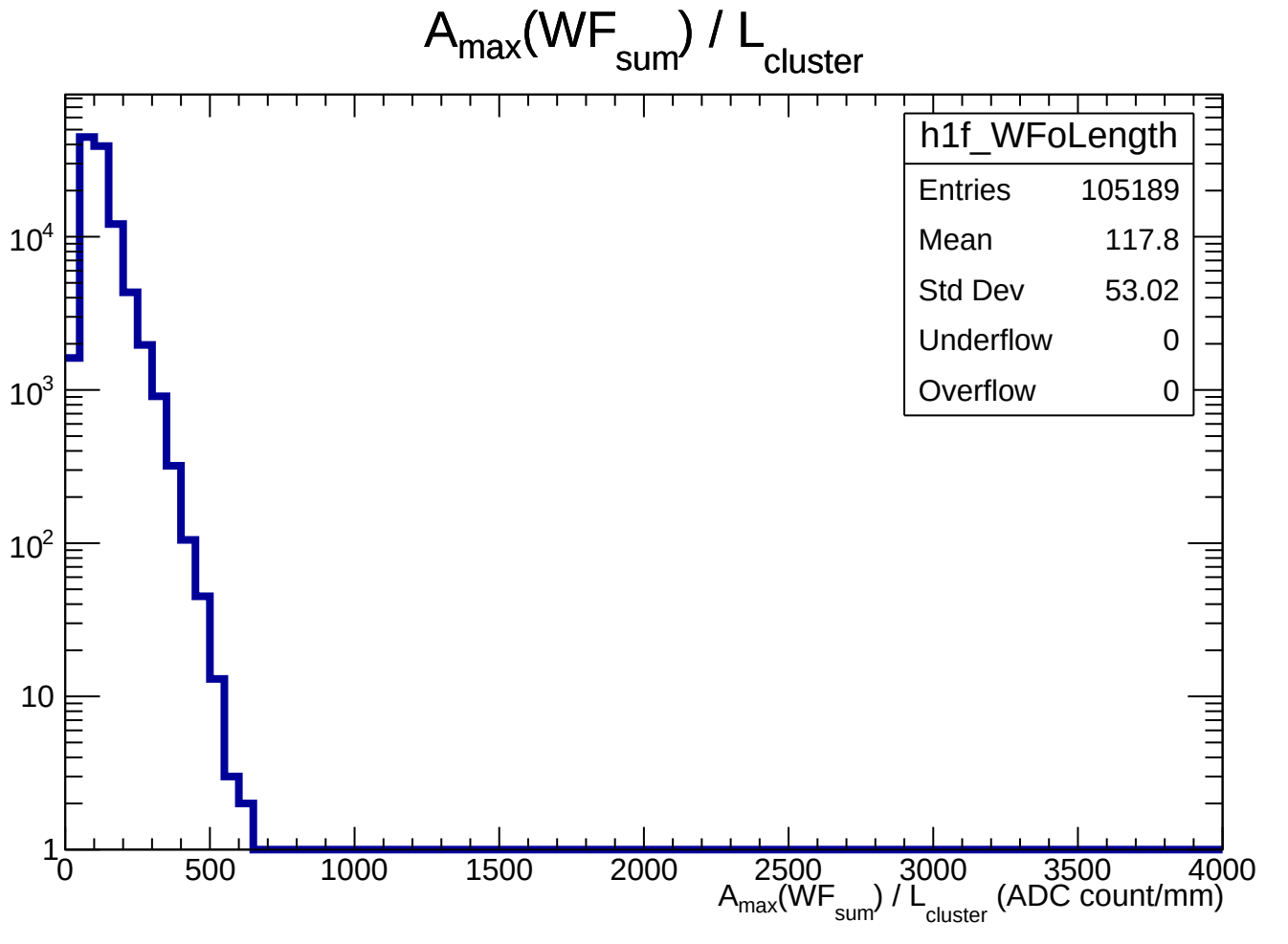

$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 105189
Mean x 11.28
Mean y 1303
Std Dev x 0.08545
Std Dev y 347
0 16565 0
0 88624 0
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 500 1000 1500 2000 2500 3000 3500 4000 4500

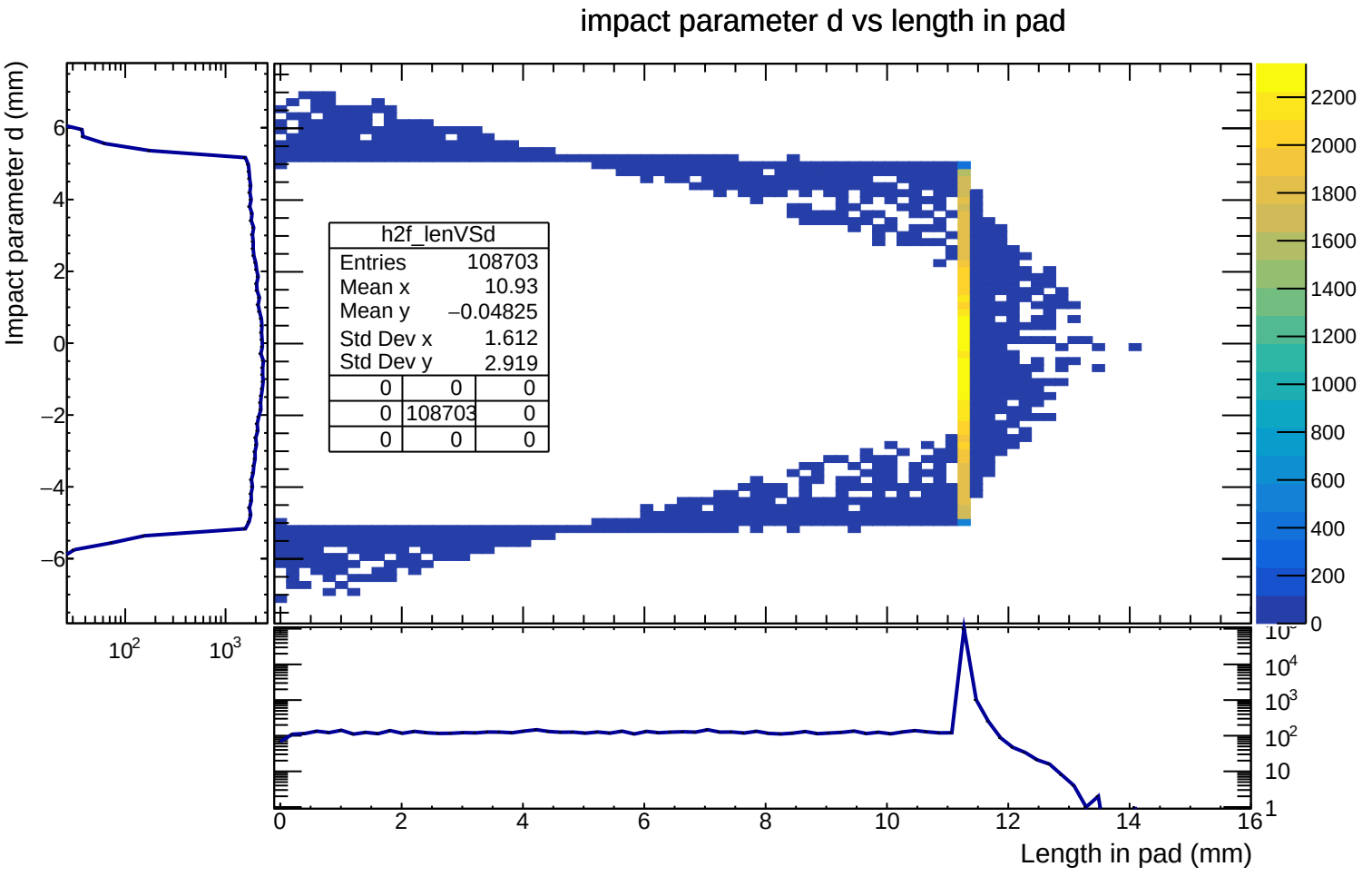

WF_sum VS length in cluster
h2f_WFvsLength
Entries 105189
Mean x 11.28
Mean y 1177
Std Dev x 0.0837
Std Dev y 351.6
0 10619 0
0 94570 0
0 0 0
WF_sum (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
1000
2000
3000
4000
5000


WF sum truncated VS length in cluster
h2f_WFtruncvsLength
Entries 71159
Mean x 11.28
Mean y 1027
Std Dev x 0.08352
Std Dev y 243.5
0 0 0
0 71159 0
0 0 0
WF sum trunc (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


WF*sum VS length in cluster
WF*sum (ADC count)
Length in cluster (mm)
h2f_WFstarvsLen
Entries 105189
Mean x 11.28
Mean y 1074
Std Dev x 0.08196
Std Dev y 347.3
0 7099 0
0 98090 0
0 0 0
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


WF*sum truncated VS length in cluster
h2f_WFstartrcvsLen
Entries 71159
Mean x 11.28
Mean y 1060
Std Dev x 0.08623
Std Dev y 339.5
0 4658 0
0 66501 0
0 0 0
WF*sum trunc (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 105189
Mean 117.8
Std Dev 53.02
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)
h2f_lenVSd
Entries 108703
Mean x 10.93
Mean y −0.04825
Std Dev x 1.612
Std Dev y 2.919
Length in pad (mm)