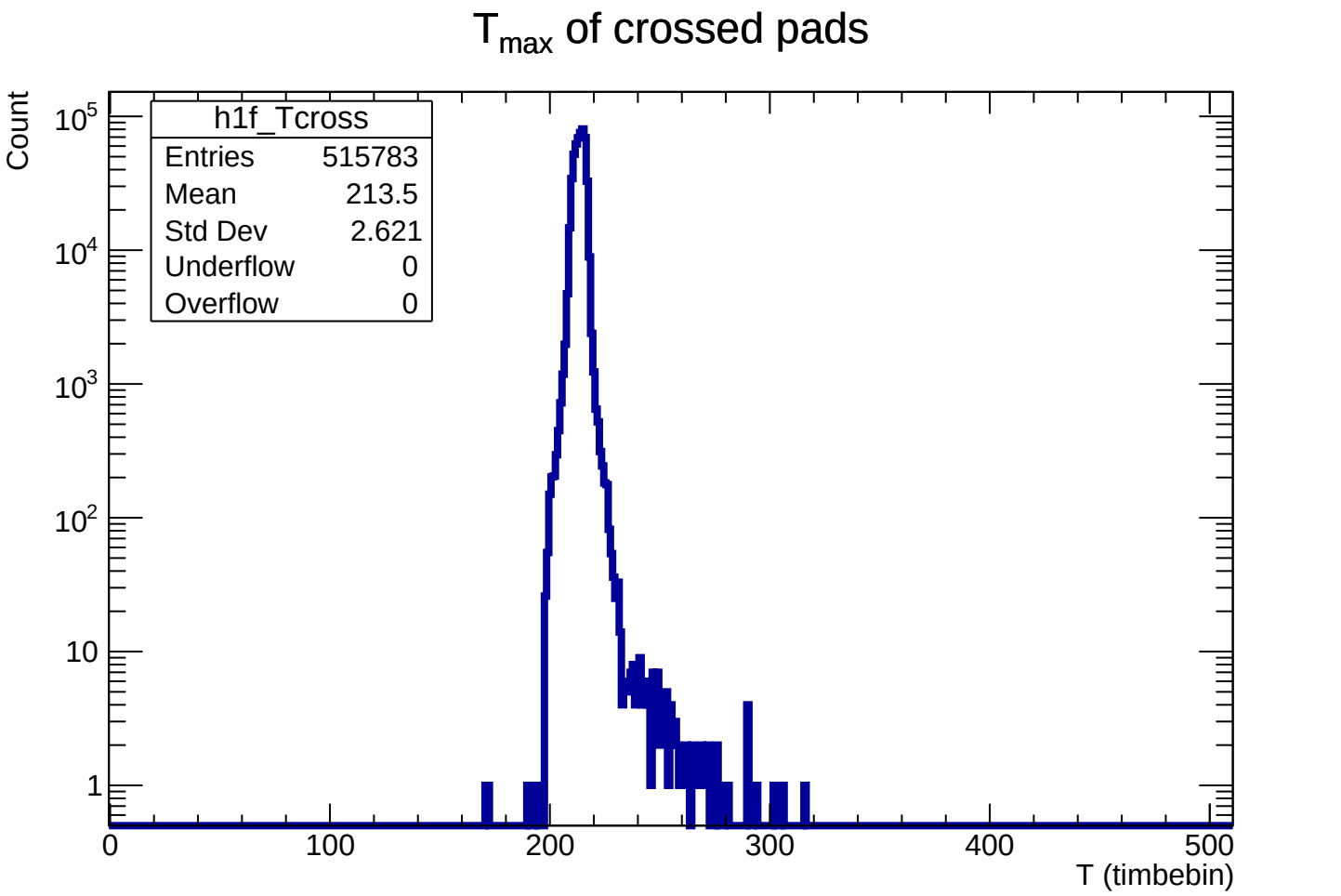
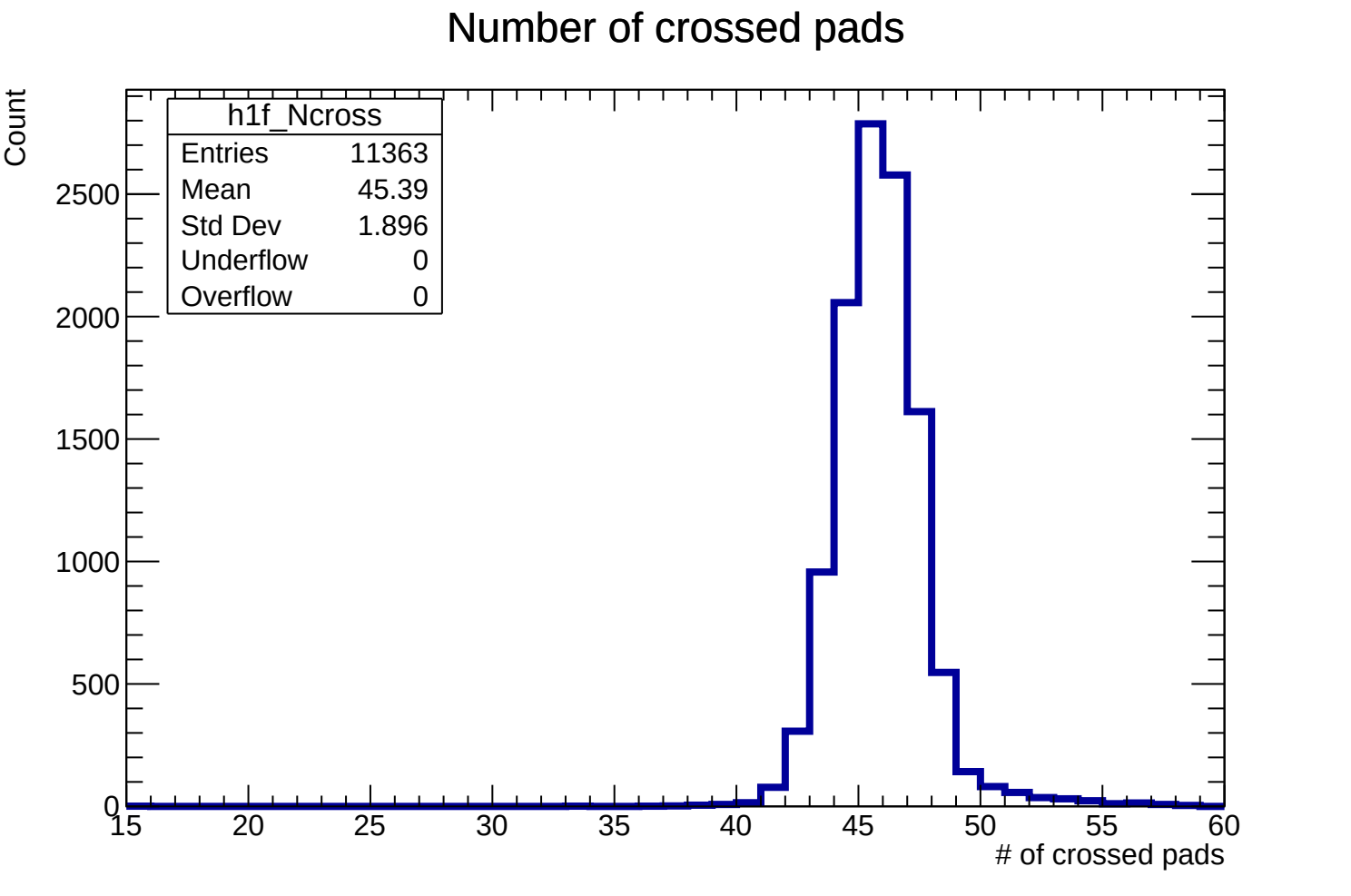
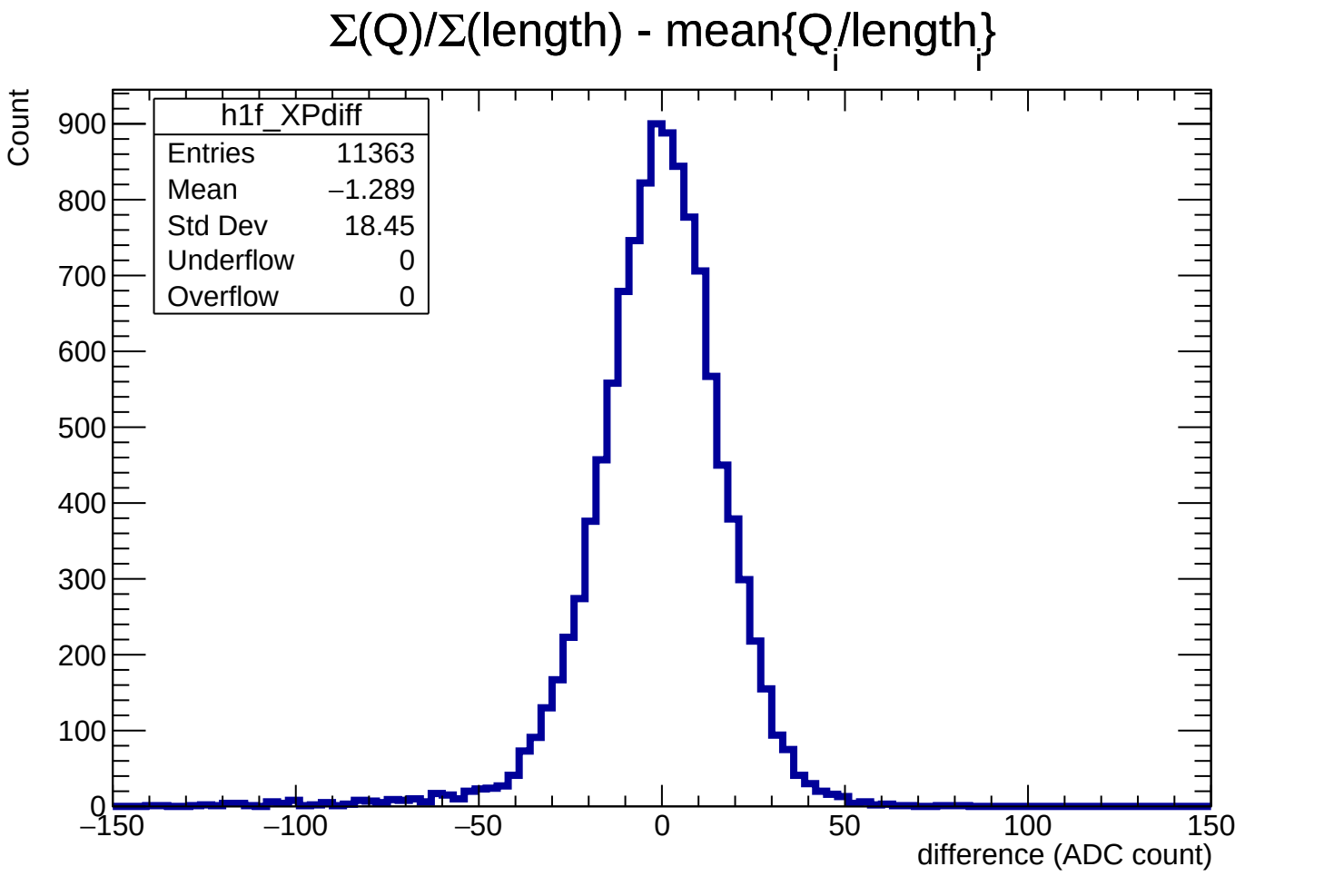
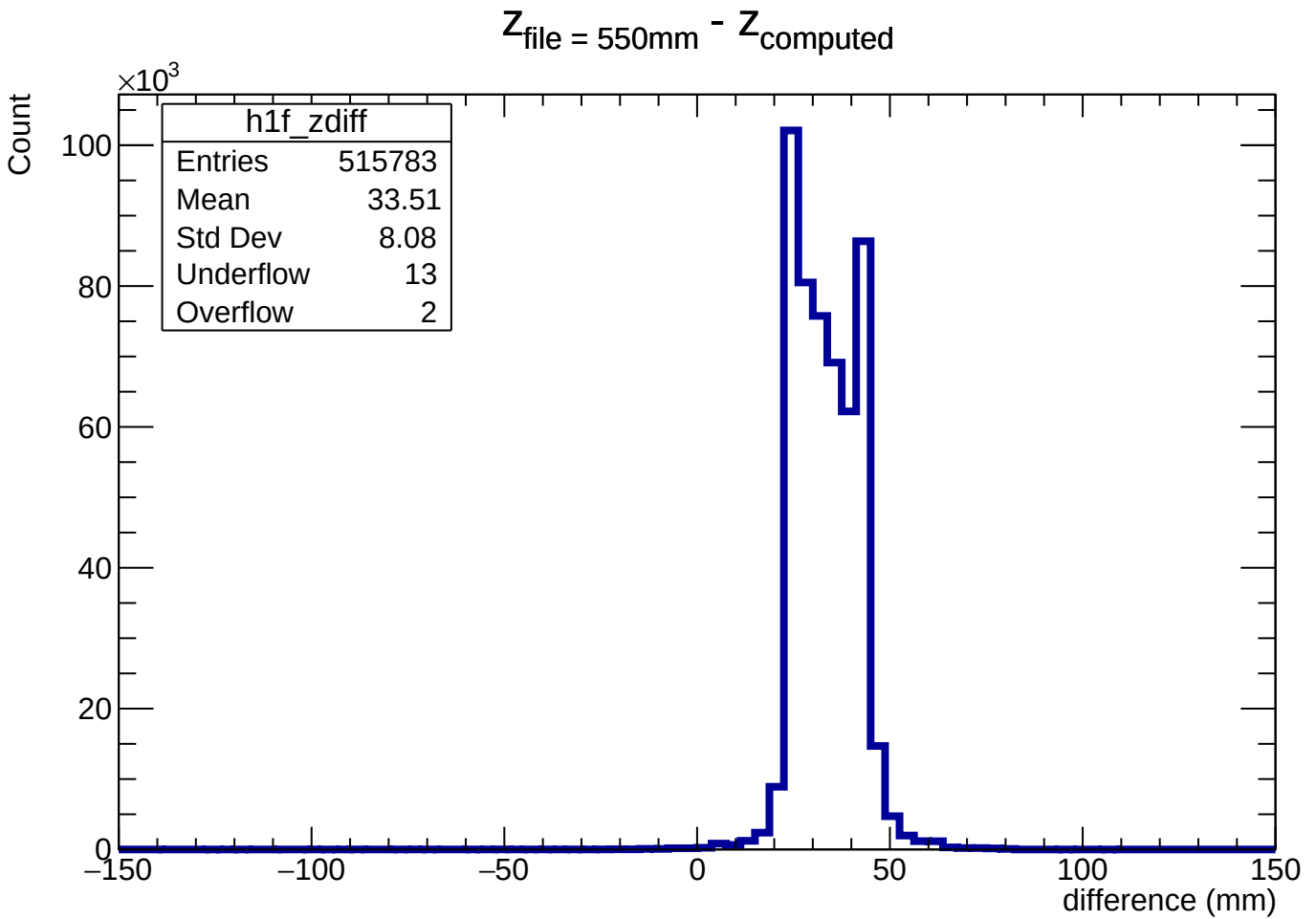
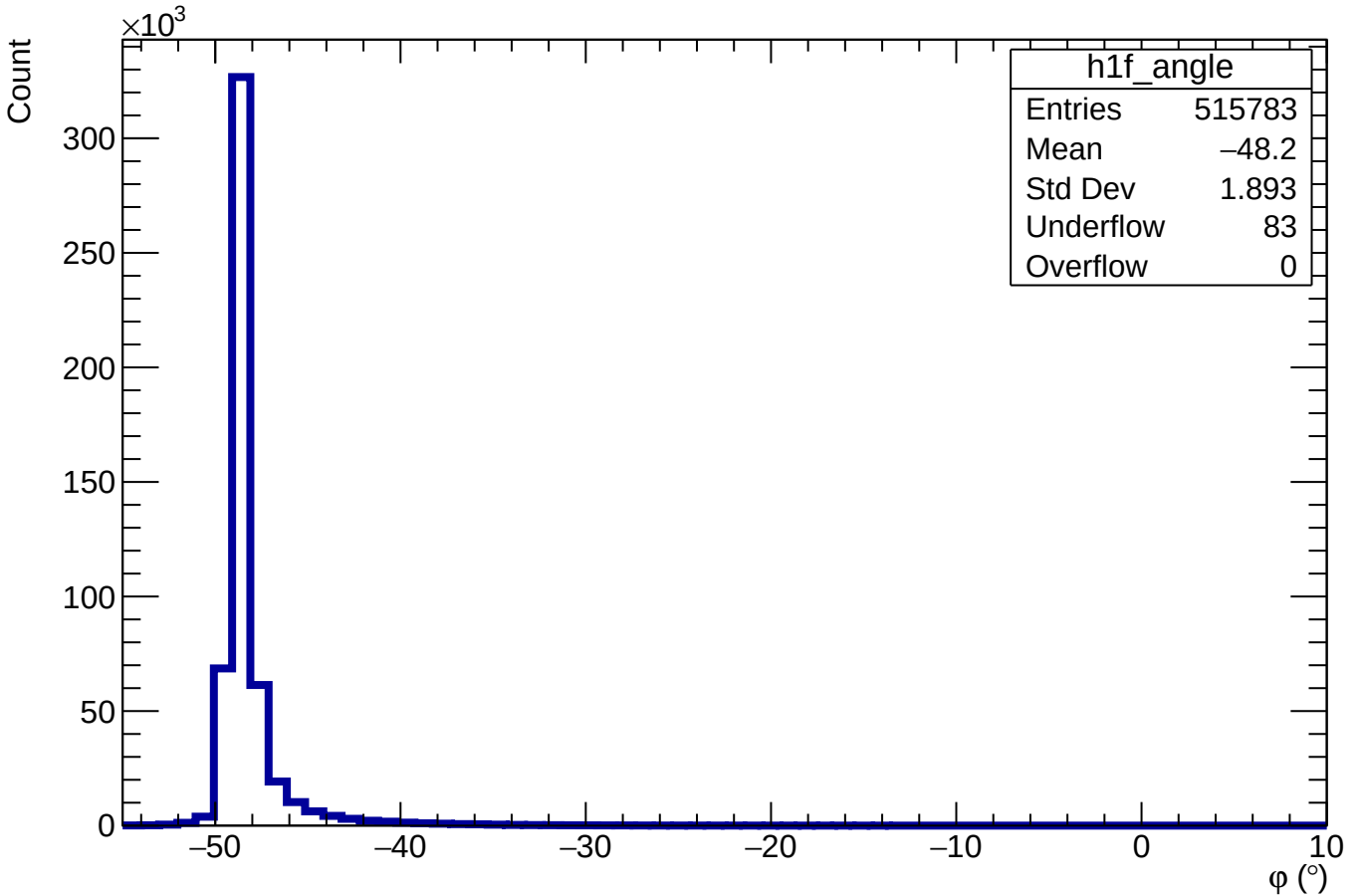
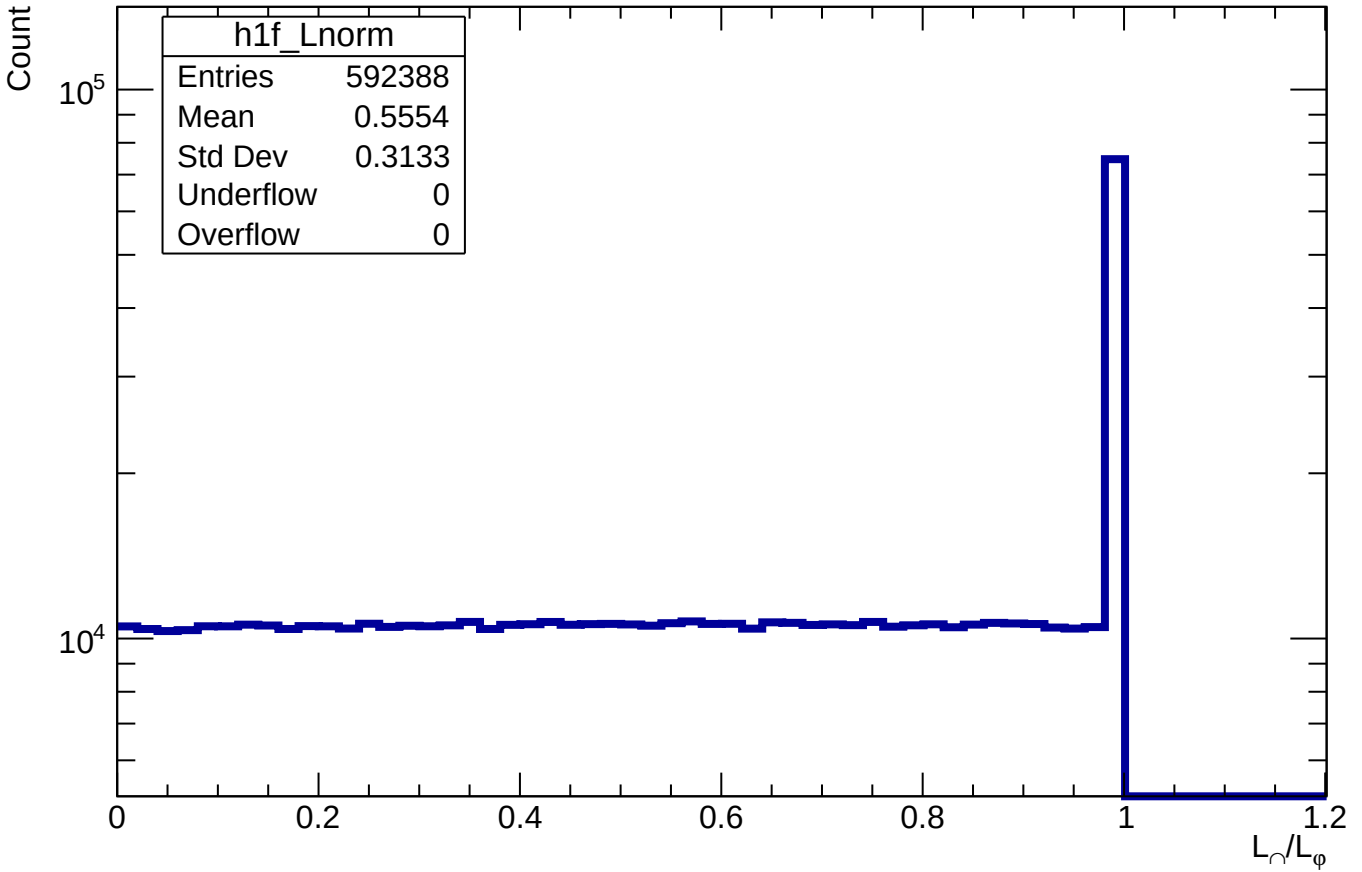

T_{max} of crossed pads
h1f_Tcross
Entries 515783
Mean 213.5
Std Dev 2.621
Underflow 0
Overflow 0
Count
10^5
10^4
10^3
10^2
10
1
0
100
200
300
400
500
T (timbebin)

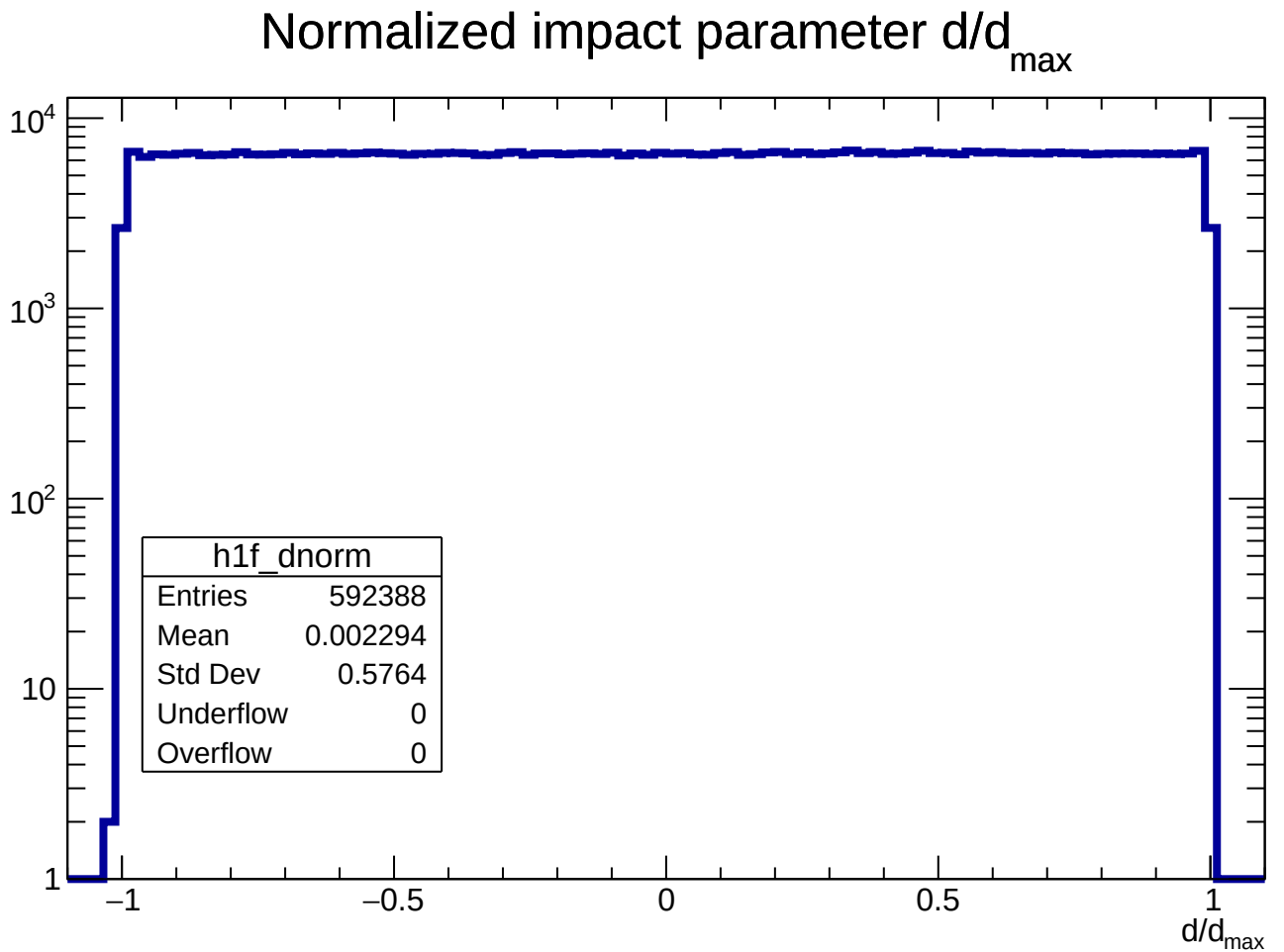

Number of crossed pads
h1f_Ncross
Entries 11363
Mean 45.39
Std Dev 1.896
Underflow 0
Overflow 0
Count
2500
2000
1500
1000
500
0
15
20
25
30
35
40
45
50
55
60
# of crossed pads

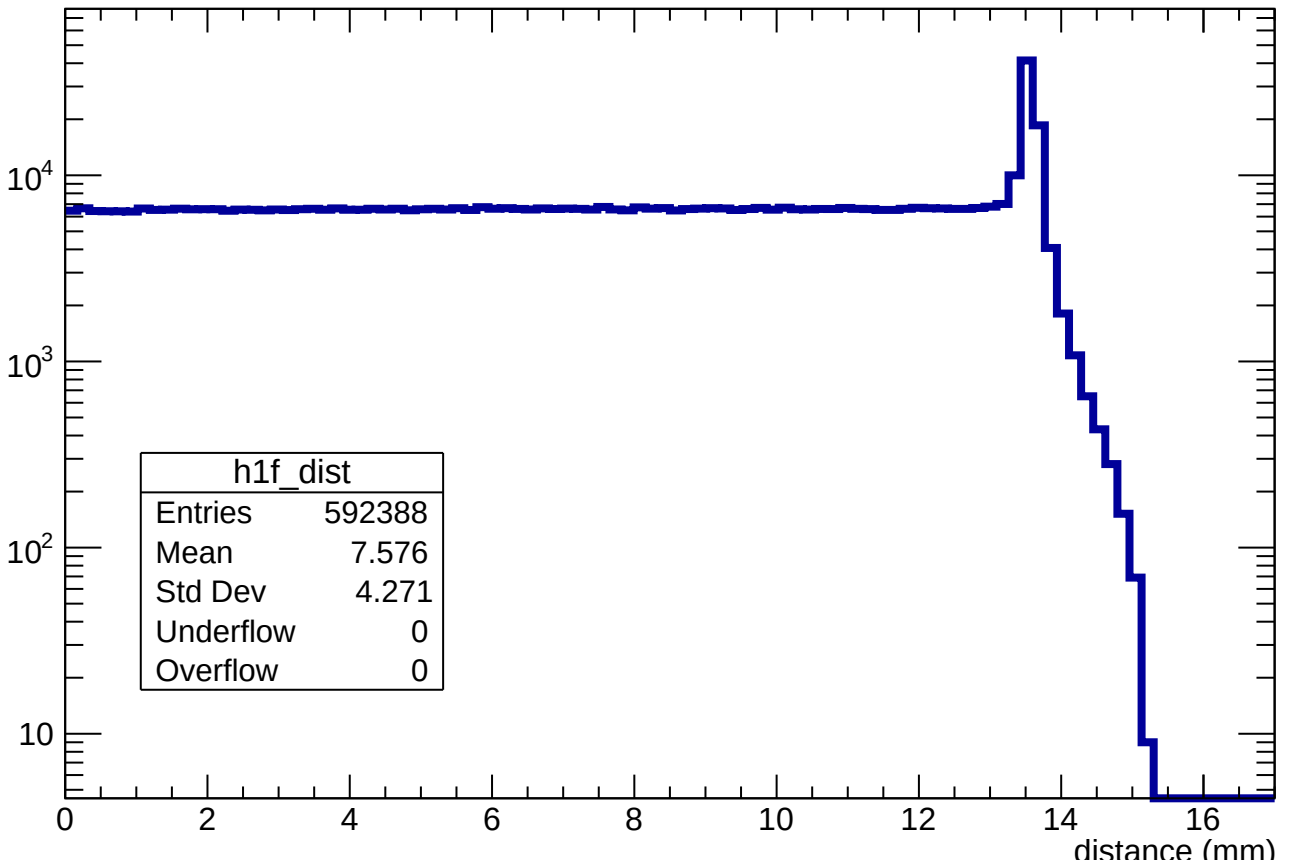

Σ(Q)/Σ(length) - mean{Q_i/length_i}
h1f_XPdiff
Entries 11363
Mean −1.289
Std Dev 18.45
Underflow 0
Overflow 0
Count
900
800
700
600
500
400
300
200
100
0
−150
−100
−50
0
50
100
150
difference (ADC count)

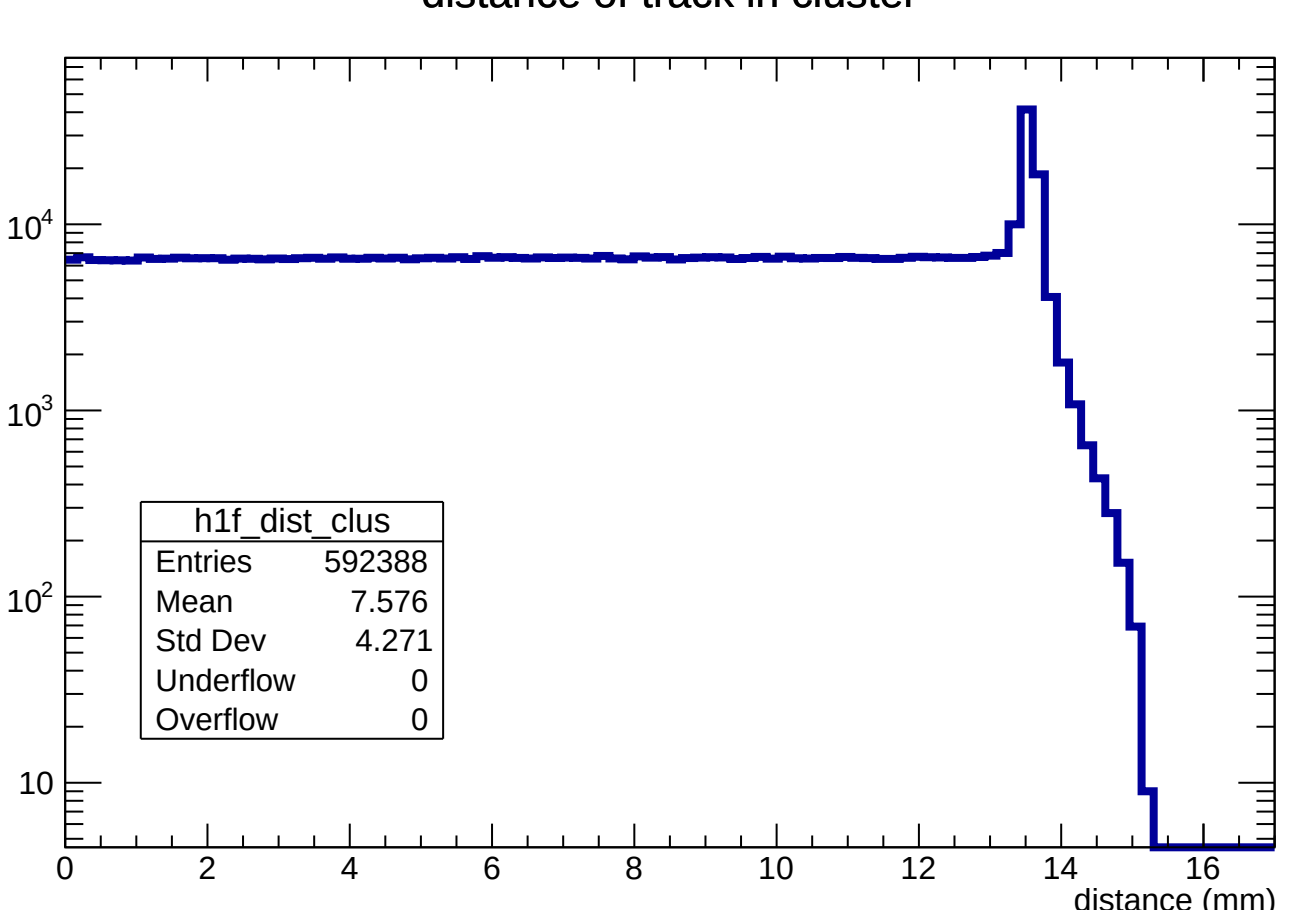

$Z_{file = 550mm} - Z_{computed}$
$\times 10^3$
Count
h1f_zdiff
Entries 515783
Mean 33.51
Std Dev 8.08
Underflow 13
Overflow 2
100
80
60
40
20
0
−150
−100
−50
0
50
100
150
difference (mm)

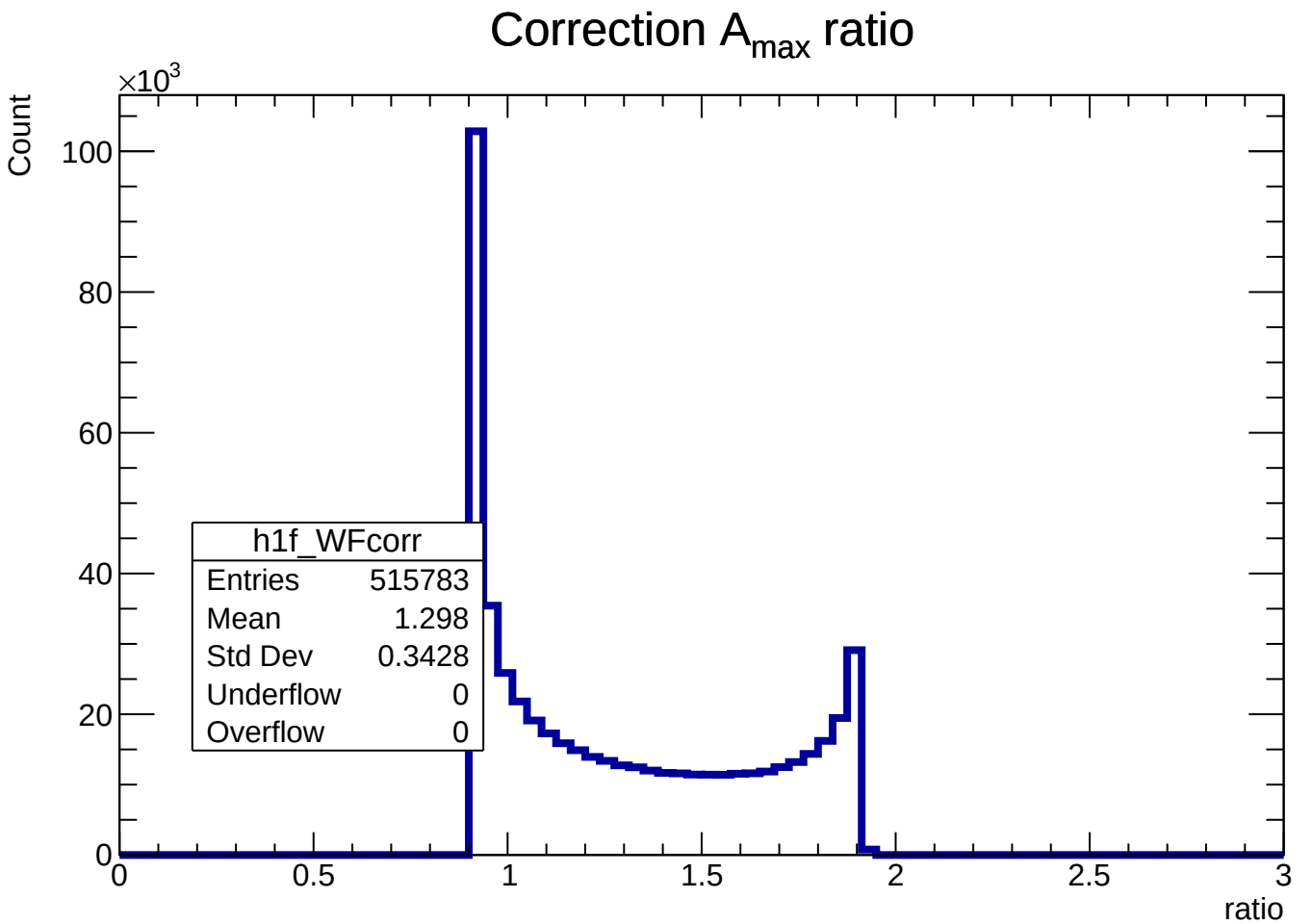

Angle φ in each pad
×10^3
Count
300
250
200
150
100
50
0
h1f_angle
Entries 515783
Mean –48.2
Std Dev 1.893
Underflow 83
Overflow 0
–50
–40
–30
–20
–10
0
10
φ (°)

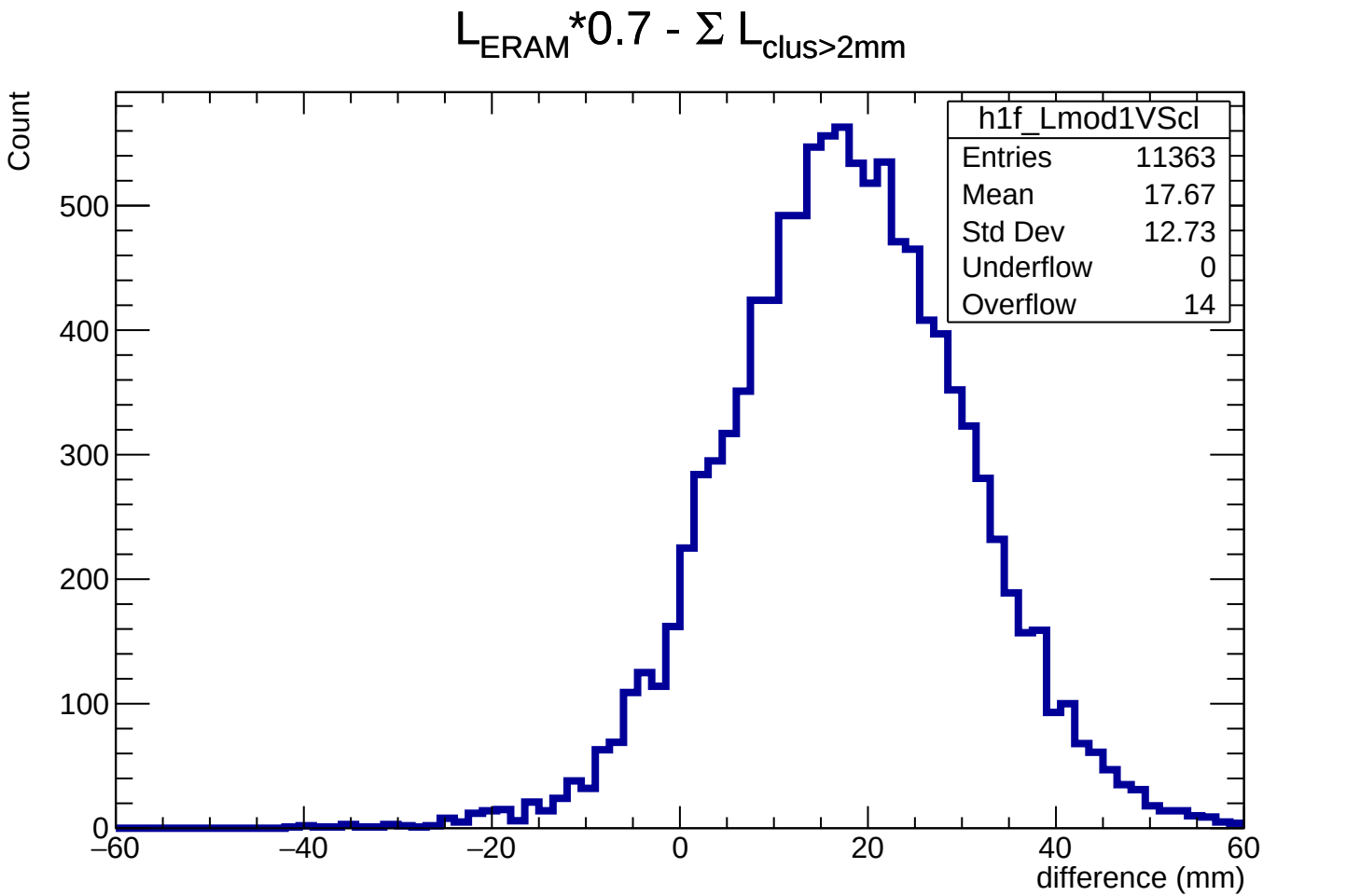

Length in pad normalized to maximum length in pad for a given φ
h1f_Lnorm
Entries 592388
Mean 0.5554
Std Dev 0.3133
Underflow 0
Overflow 0
Count
10^5
10^4
0
0.2
0.4
0.6
0.8
1
1.2
L_⌒/L_φ

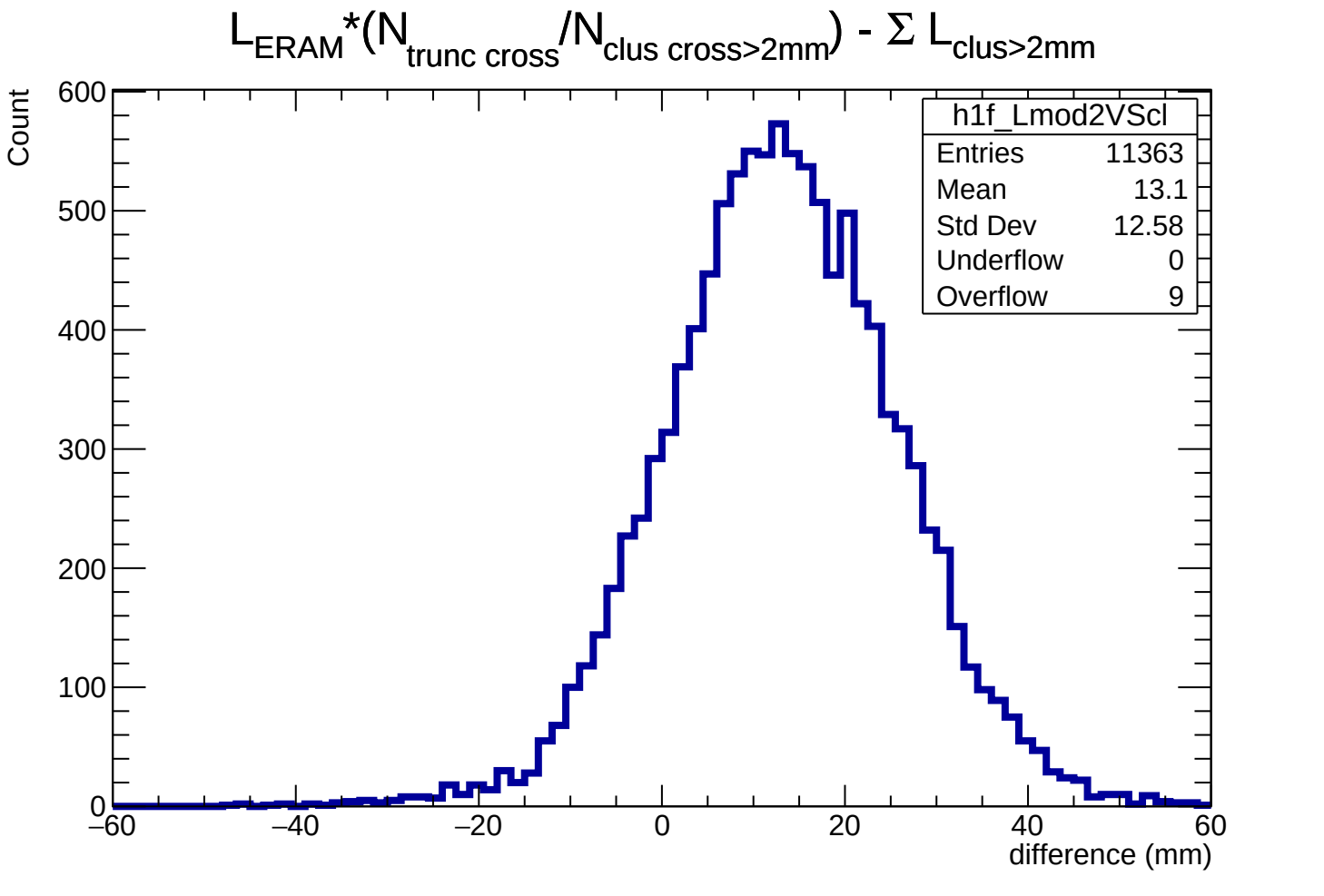

Normalized impact parameter d/d max
10^4
10^3
10^2
10
1
h1f_dnorm
Entries 592388
Mean 0.002294
Std Dev 0.5764
Underflow 0
Overflow 0
−1
−0.5
0
0.5
1
d/d max

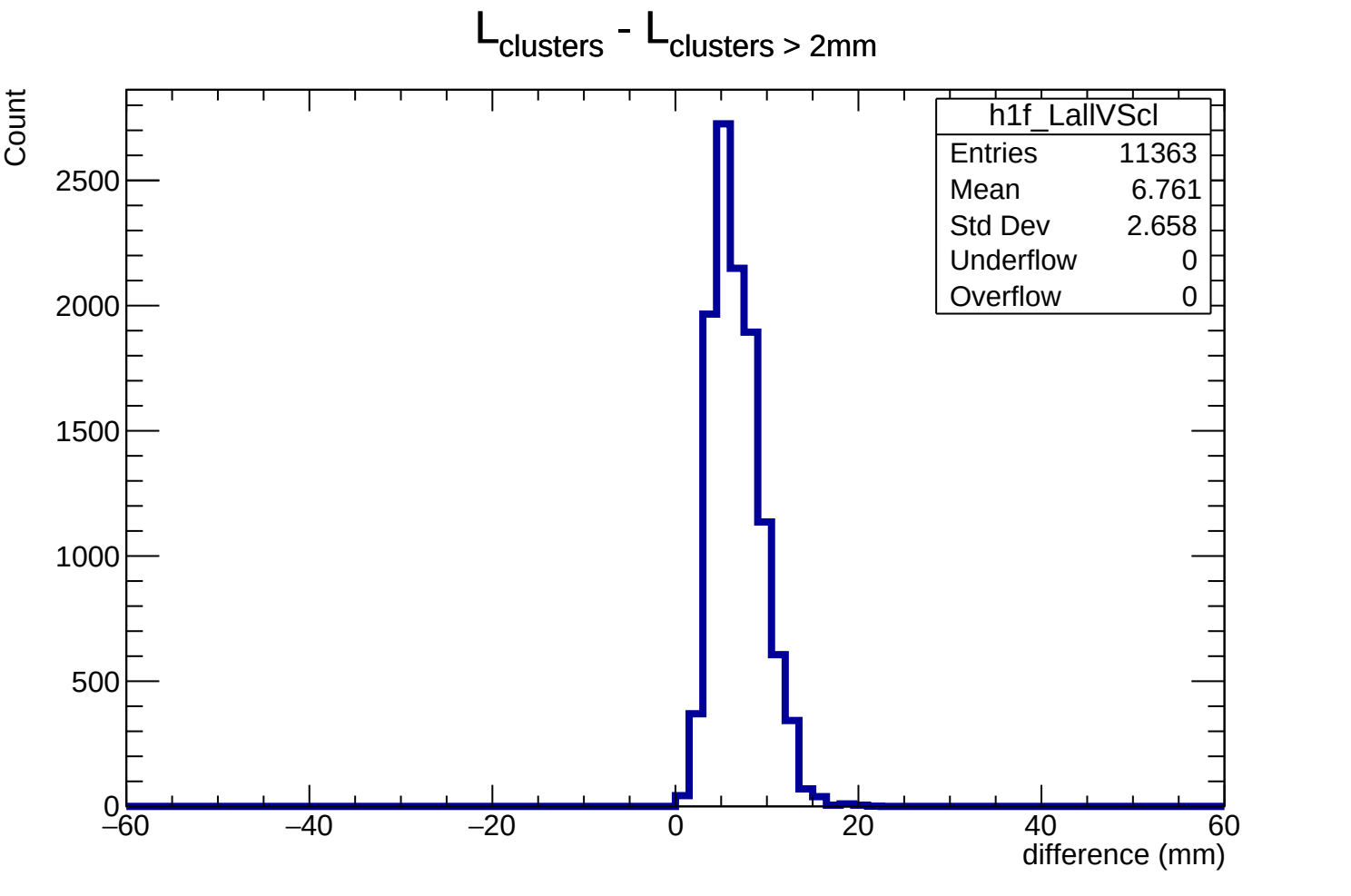

distance of track in pad
h1f_dist
Entries 592388
Mean 7.576
Std Dev 4.271
Underflow 0
Overflow 0
10^4
10^3
10^2
10
0
2
4
6
8
10
12
14
16
distance (mm)

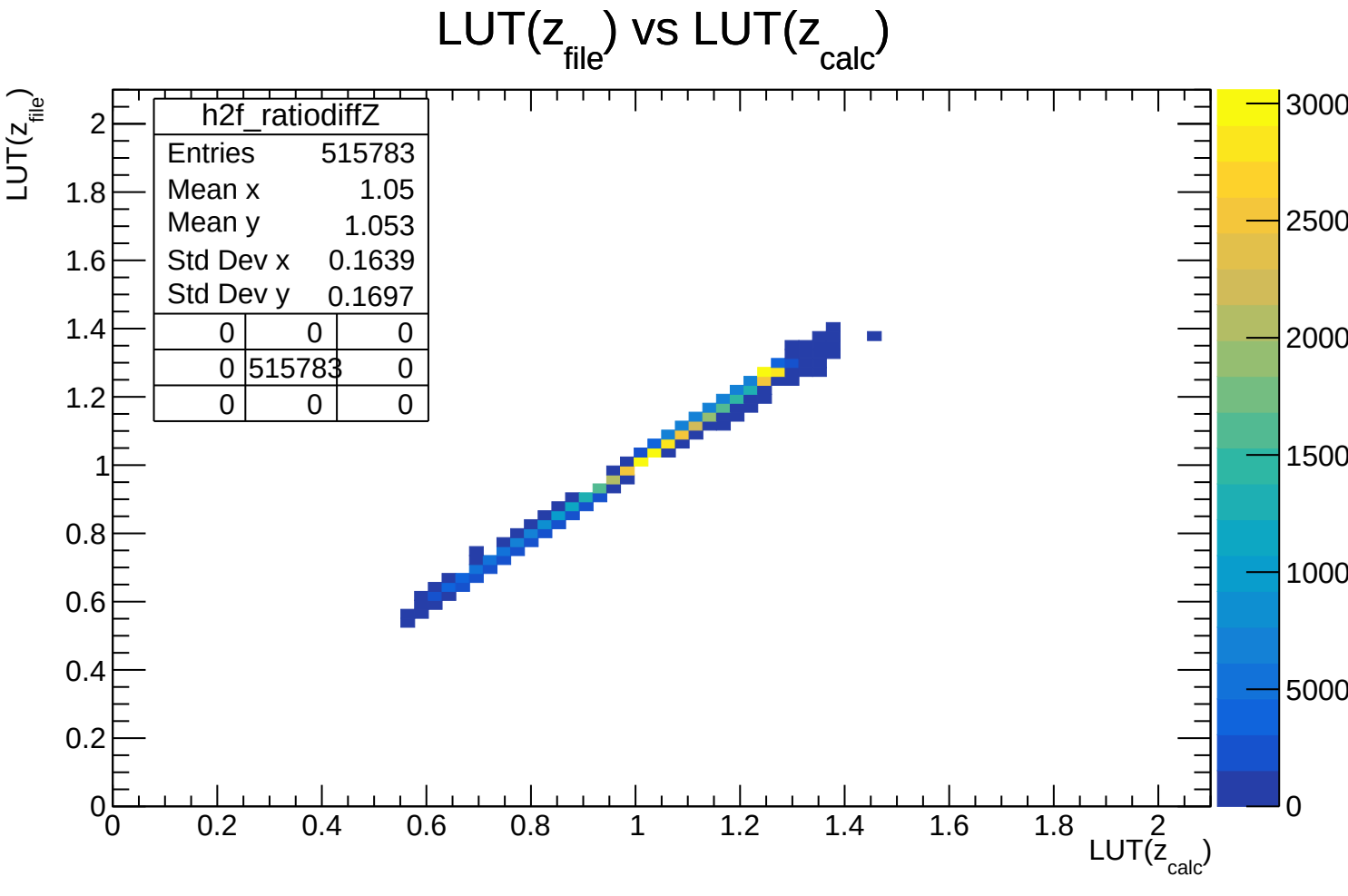

distance of track in cluster
h1f_dist_clus
Entries 592388
Mean 7.576
Std Dev 4.271
Underflow 0
Overflow 0
10^4
10^3
10^2
10
0
2
4
6
8
10
12
14
16
distance (mm)

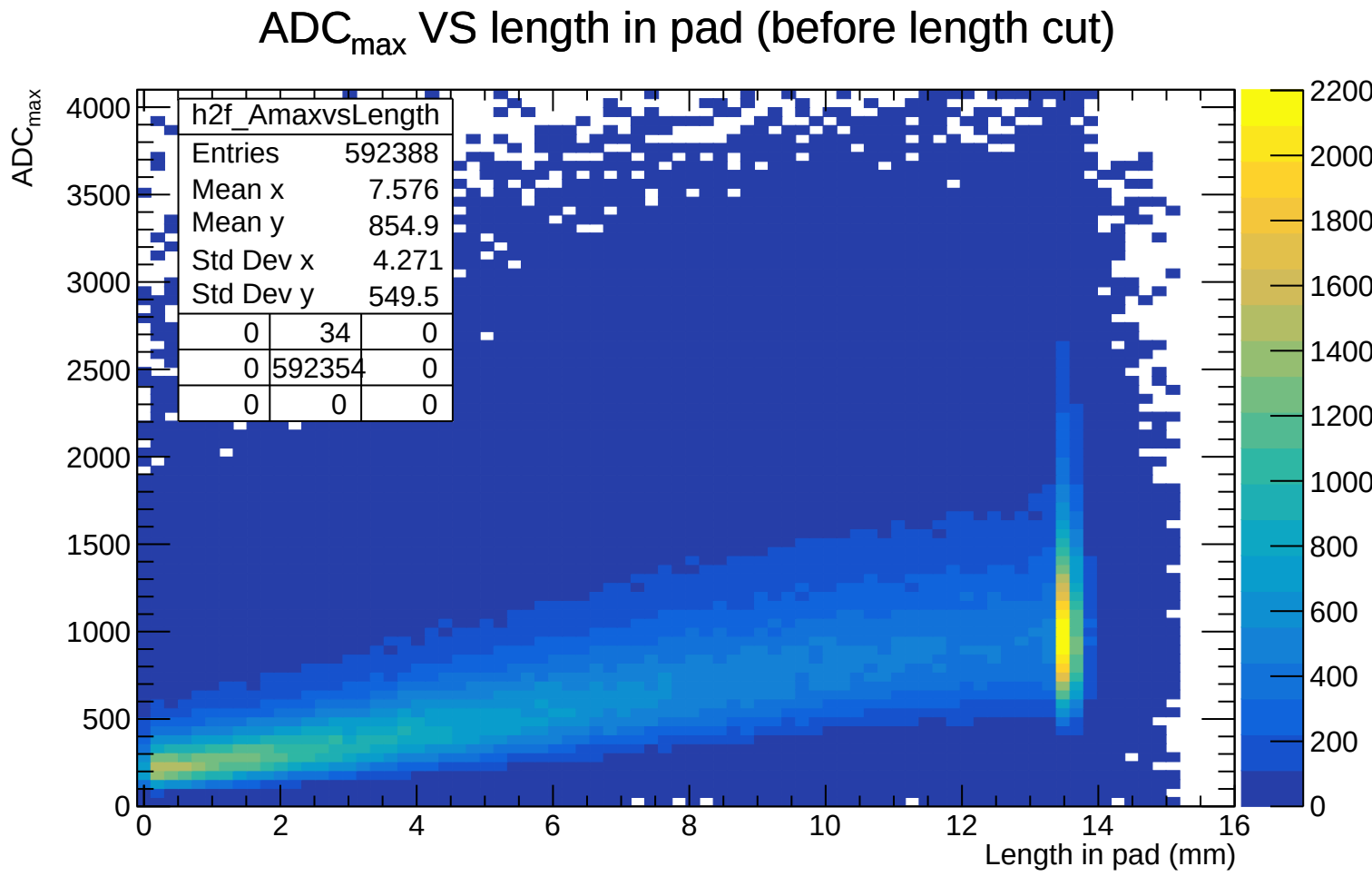

Correction A_{max} ratio
$\times 10^3$
Count
100
80
60
40
20
0
0
0.5
1
1.5
2
2.5
3
ratio
h1f_WFcorr
Entries 515783
Mean 1.298
Std Dev 0.3428
Underflow 0
Overflow 0

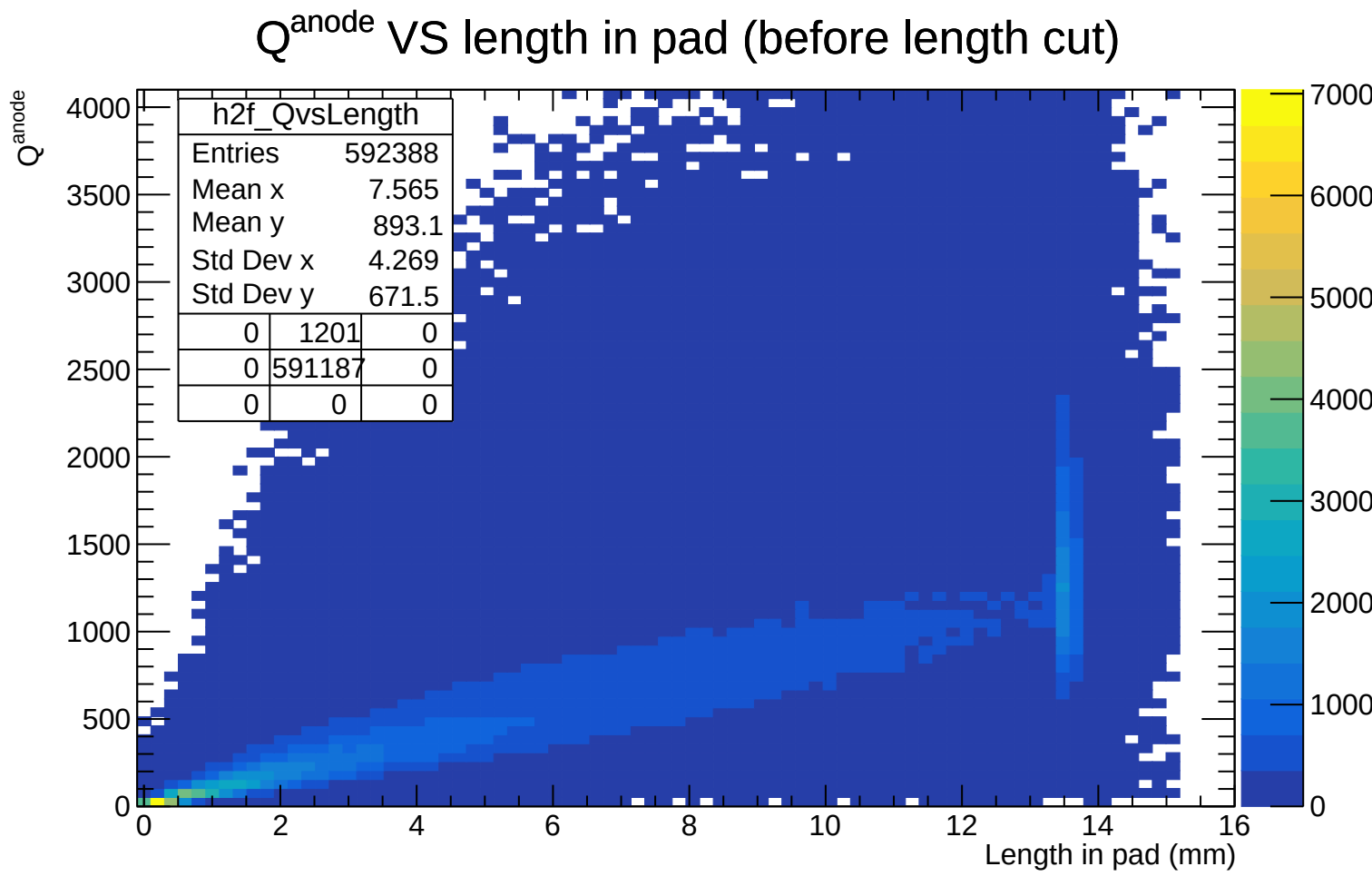

L_{ERAM}*0.7 - Σ $L_{clus>2mm}$
Count
h1f_Lmod1VScl
Entries 11363
Mean 17.67
Std Dev 12.73
Underflow 0
Overflow 14
0
100
200
300
400
500
–60
–40
–20
0
20
40
60
difference (mm)

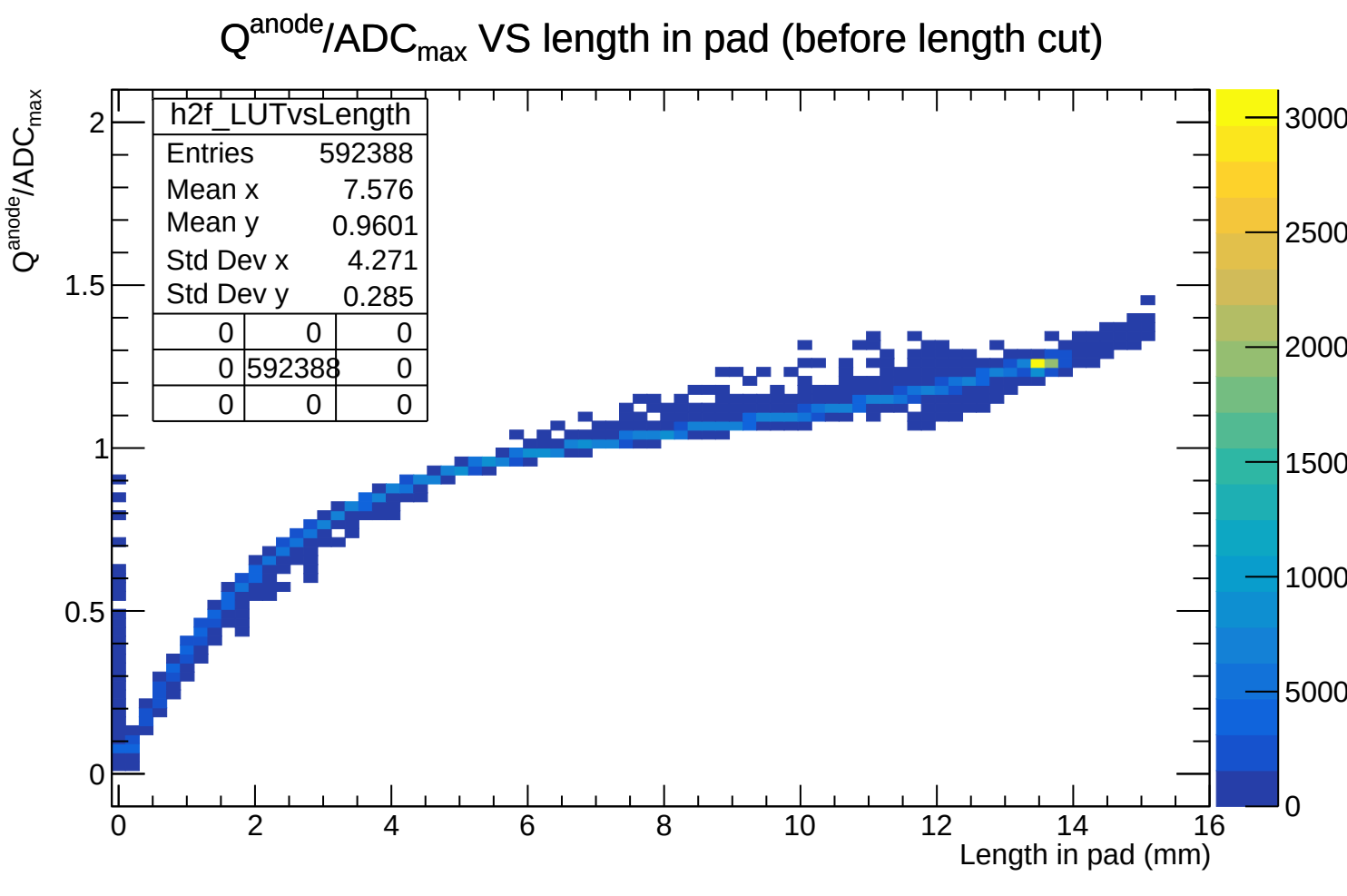

$L_{ERAM}*(N_{trunc\ cross}/N_{clus\ cross>2mm}) - \Sigma\ L_{clus>2mm}$
Count
600
500
400
300
200
100
0
−60
−40
−20
0
20
40
60
difference (mm)
h1f_Lmod2VScl
Entries 11363
Mean 13.1
Std Dev 12.58
Underflow 0
Overflow 9

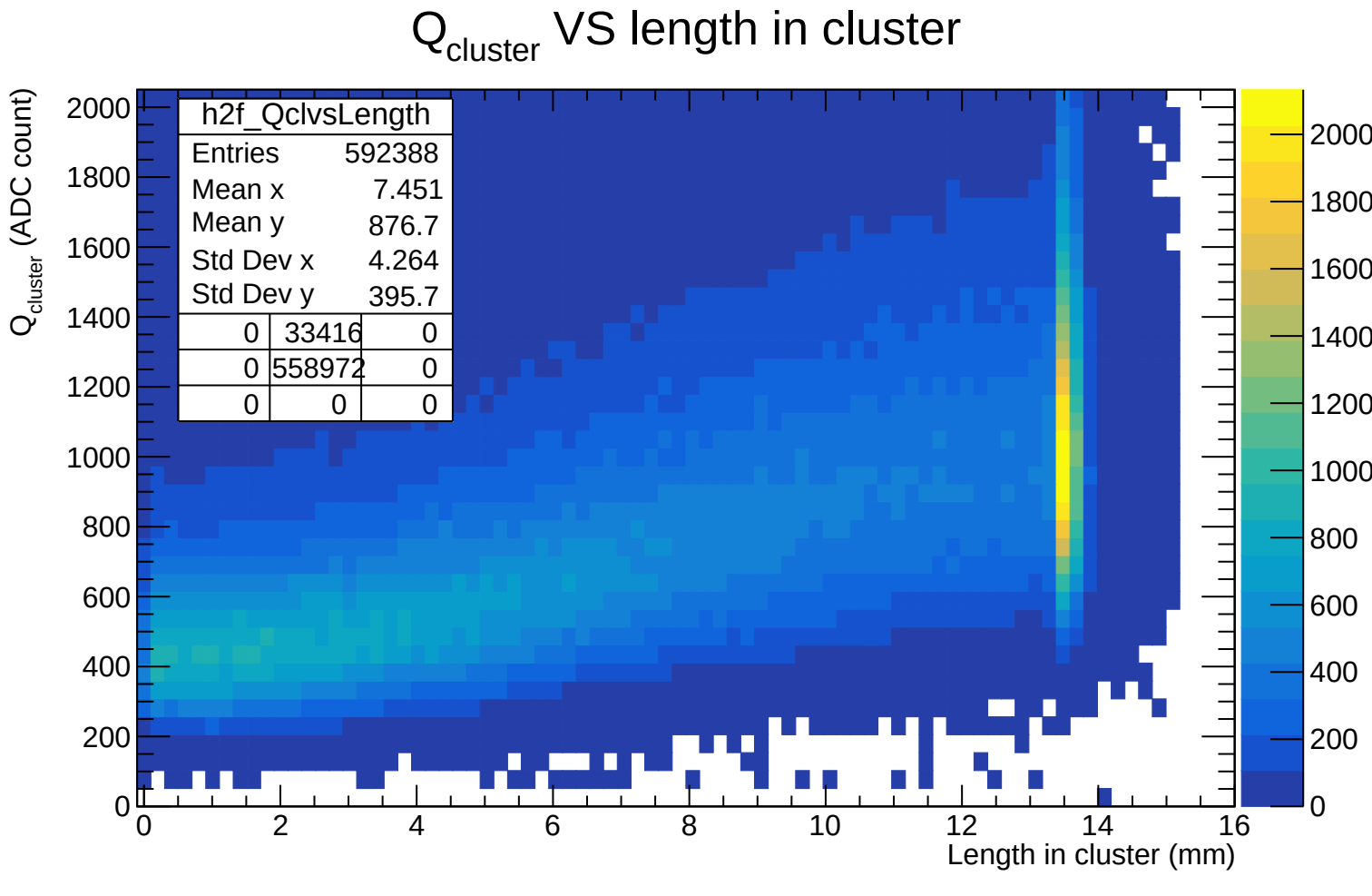

L clusters - L clusters > 2mm
Count
2500
2000
1500
1000
500
0
–60
–40
–20
0
20
40
60
difference (mm)
h1f_LallVScl
Entries 11363
Mean 6.761
Std Dev 2.658
Underflow 0
Overflow 0

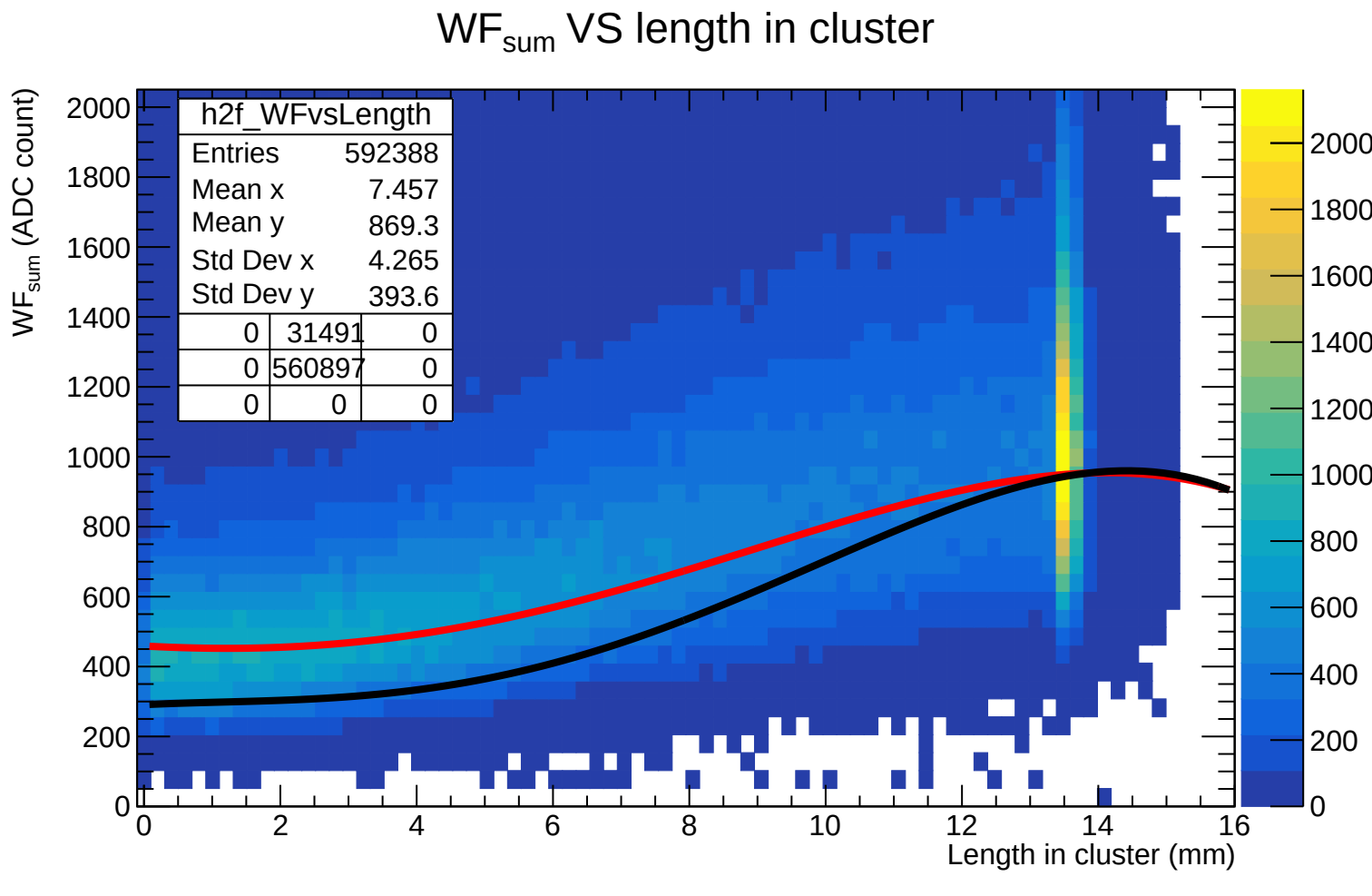

LUT(z_file) vs LUT(z_calc)
h2f_ratiodiffZ
Entries 515783
Mean x 1.05
Mean y 1.053
Std Dev x 0.1639
Std Dev y 0.1697
0 0 0
0 515783 0
0 0 0
LUT(z_file)
LUT(z_calc)
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5000 1000 1500 2000 2500 3000

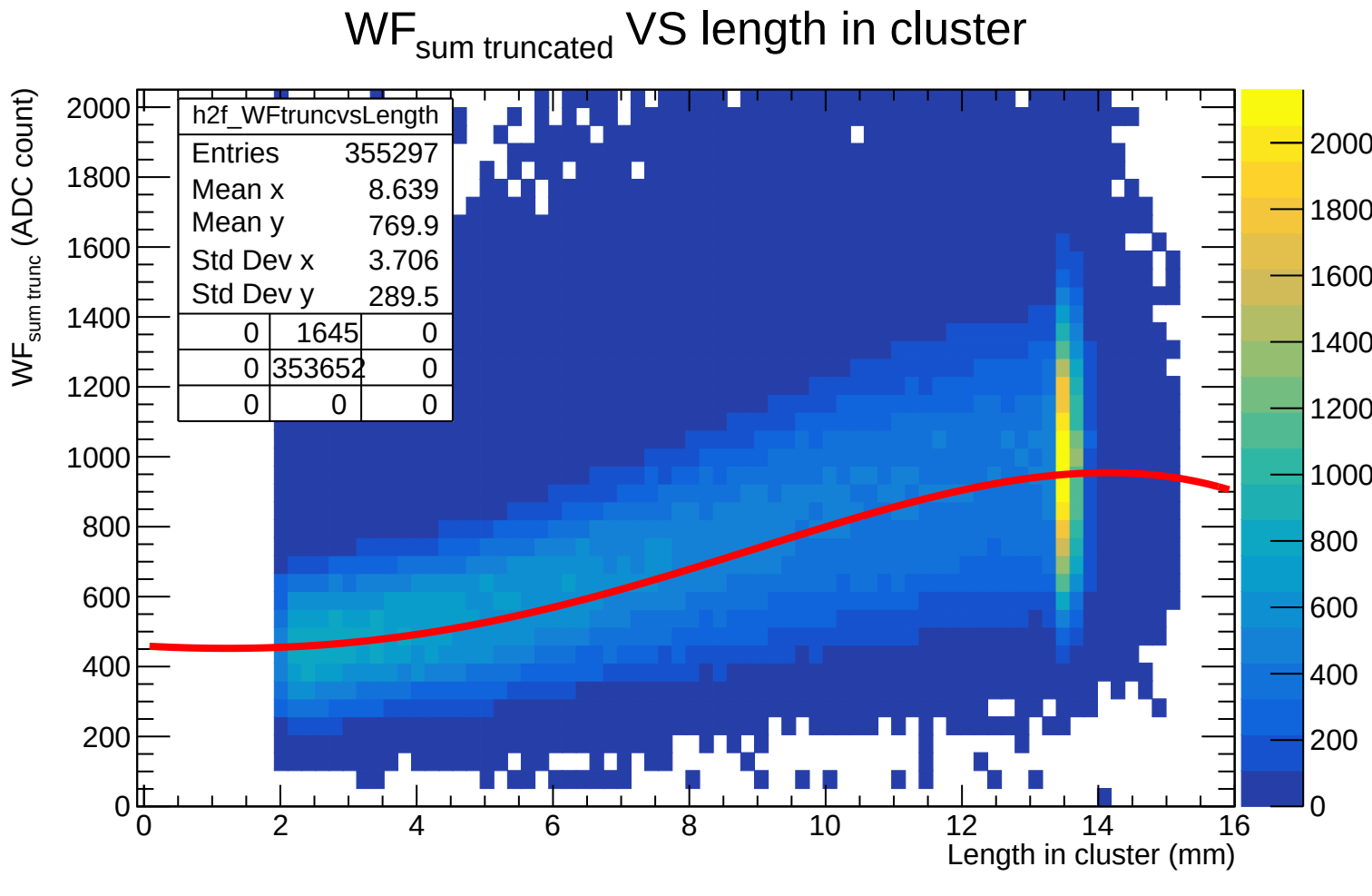

ADC$_{max}$ VS length in pad (before length cut)
h2f_AmaxvsLength
Entries 592388
Mean x 7.576
Mean y 854.9
Std Dev x 4.271
Std Dev y 549.5
0 34 0
0 592354 0
0 0 0
ADC$_{max}$
Length in pad (mm)
0 500 1000 1500 2000 2500 3000 3500 4000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200

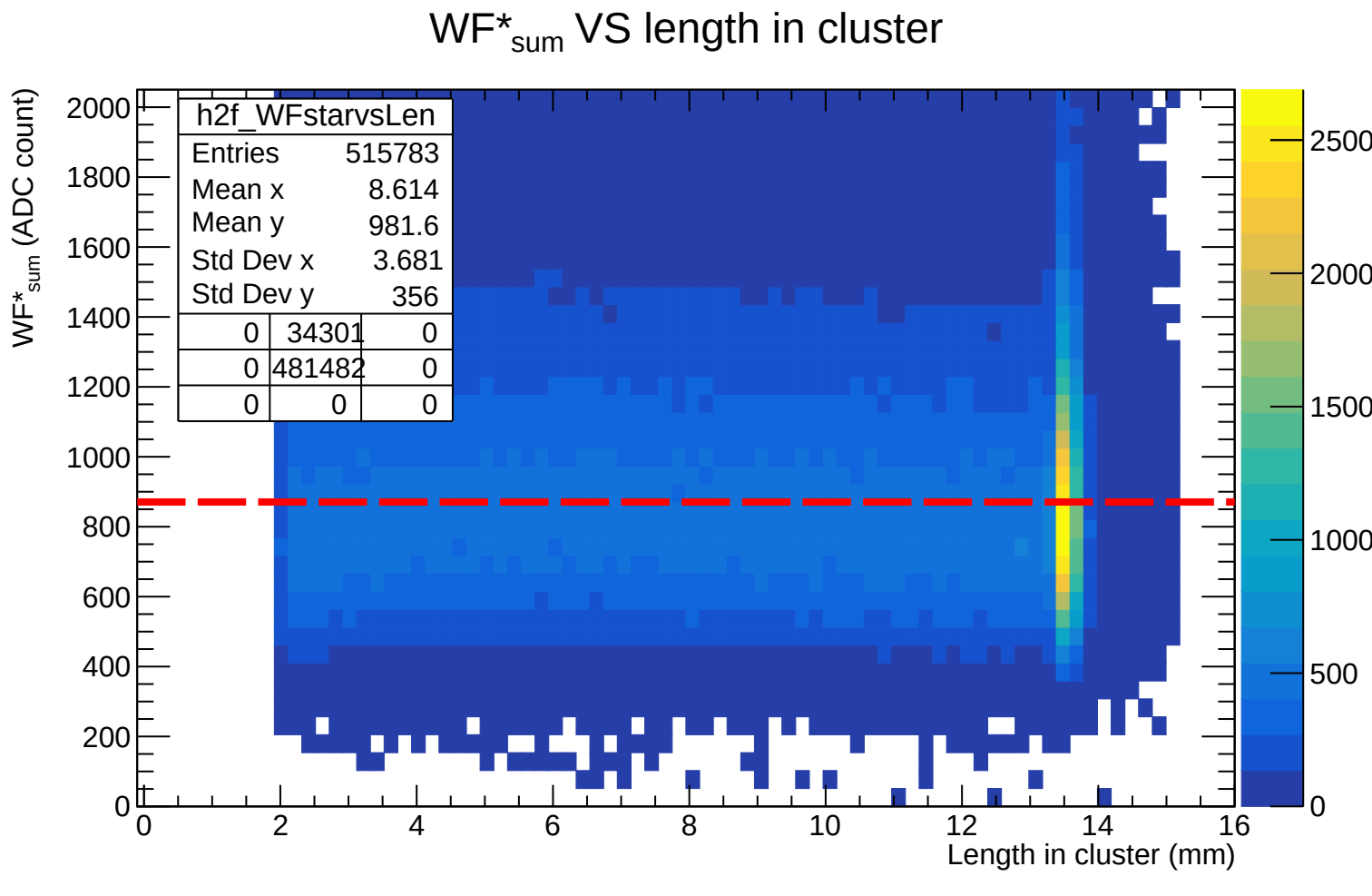

Q^anode VS length in pad (before length cut)
h2f_QvsLength
Entries 592388
Mean x 7.565
Mean y 893.1
Std Dev x 4.269
Std Dev y 671.5
0 1201 0
0 591187 0
0 0 0
Q^anode
Length in pad (mm)
0
500
1000
1500
2000
2500
3000
3500
4000
0
2
4
6
8
10
12
14
16
0
1000
2000
3000
4000
5000
6000
7000

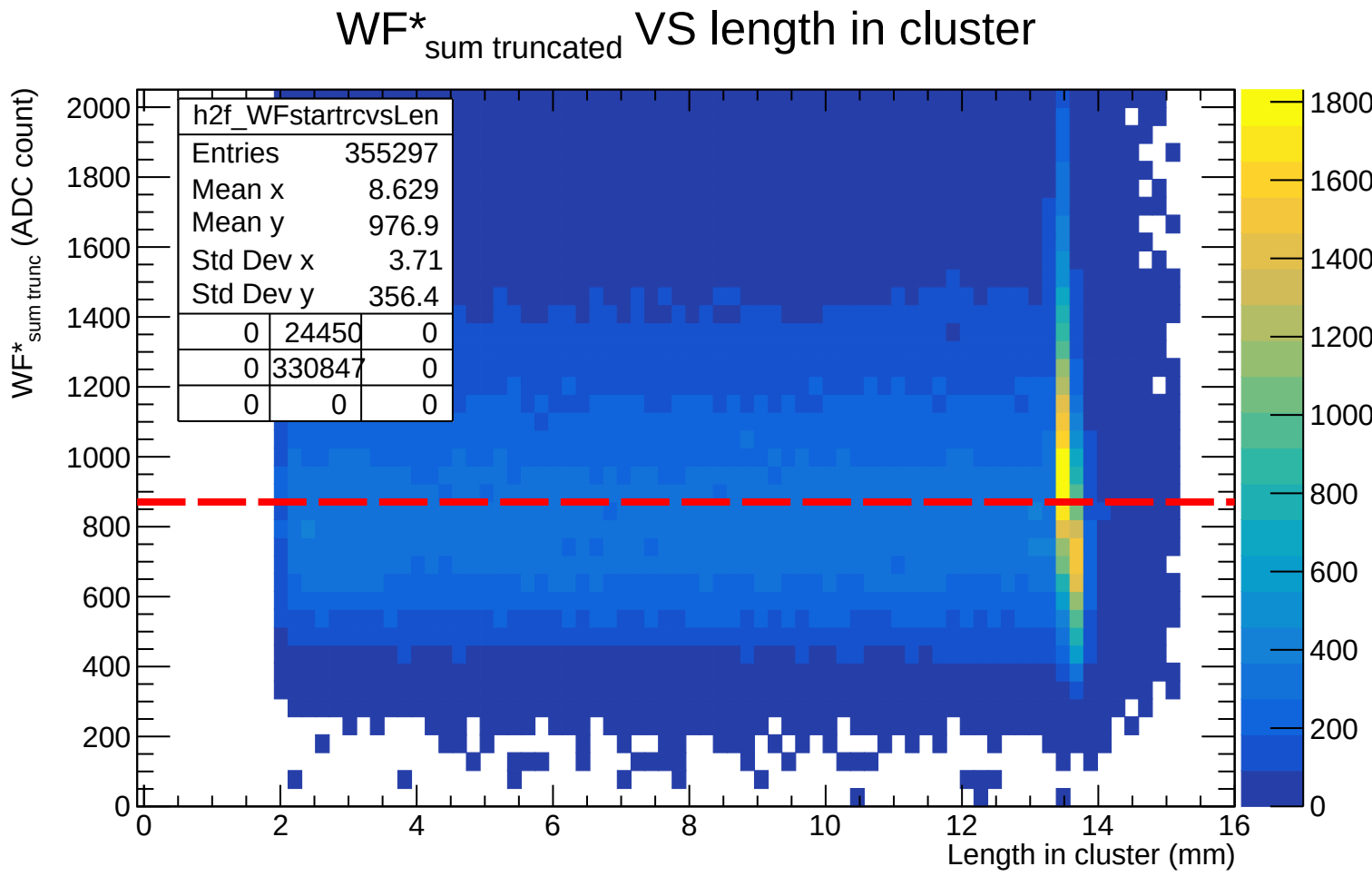

Q^anode/ADC_max VS length in pad (before length cut)
h2f_LUTvsLength
Entries 592388
Mean x 7.576
Mean y 0.9601
Std Dev x 4.271
Std Dev y 0.285
0 0 0
0 592388 0
0 0 0
Q^anode/ADC_max
Length in pad (mm)
0
0.5
1
1.5
2
0
2
4
6
8
10
12
14
16
0
500
1000
1500
2000
2500
3000

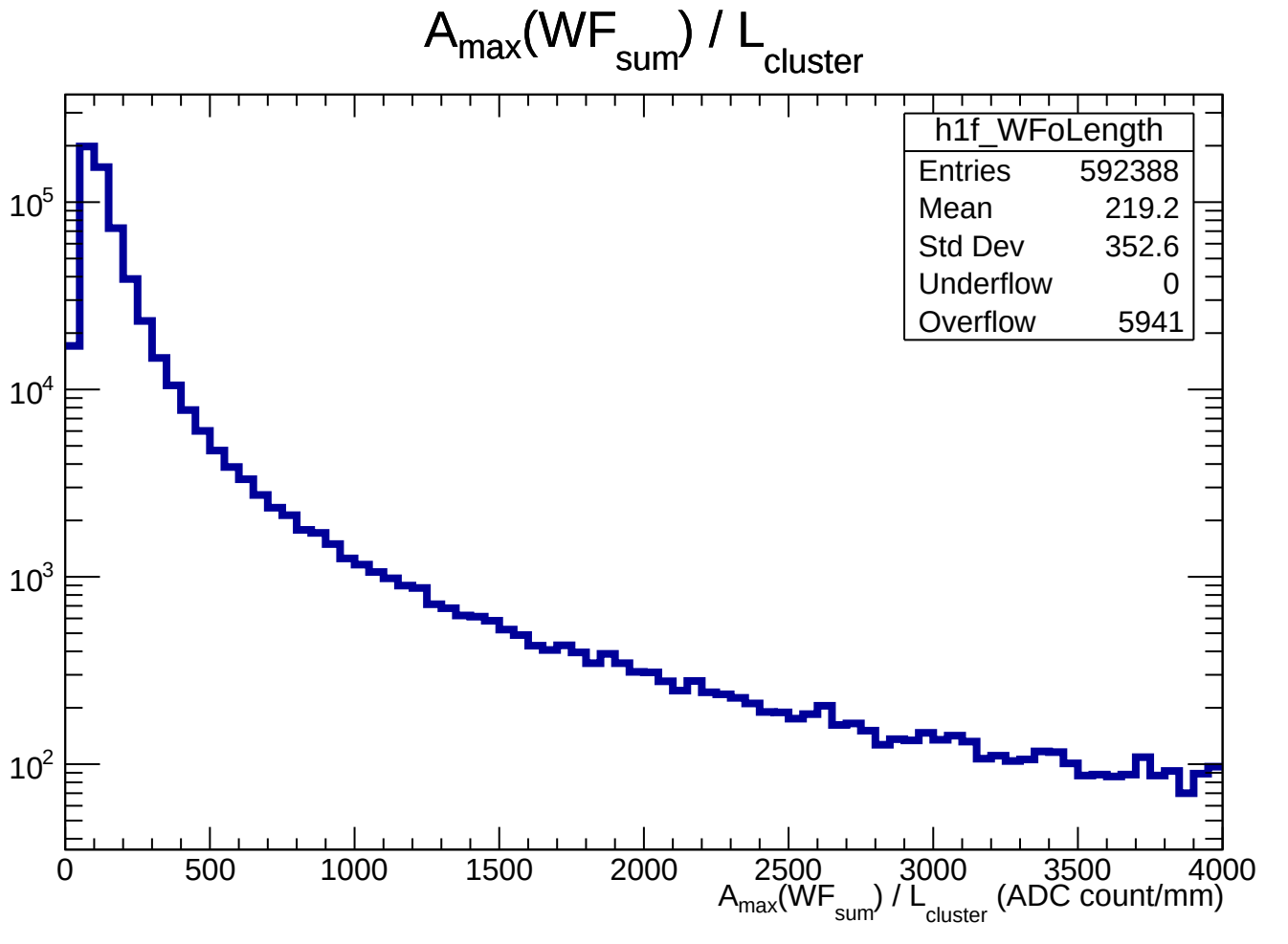

$Q_{cluster}$ VS length in cluster
h2f_QclvsLength
Entries 592388
Mean x 7.451
Mean y 876.7
Std Dev x 4.264
Std Dev y 395.7
0 33416 0
0 558972 0
0 0 0
$Q_{cluster}$ (ADC count)
Length in cluster (mm)
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16

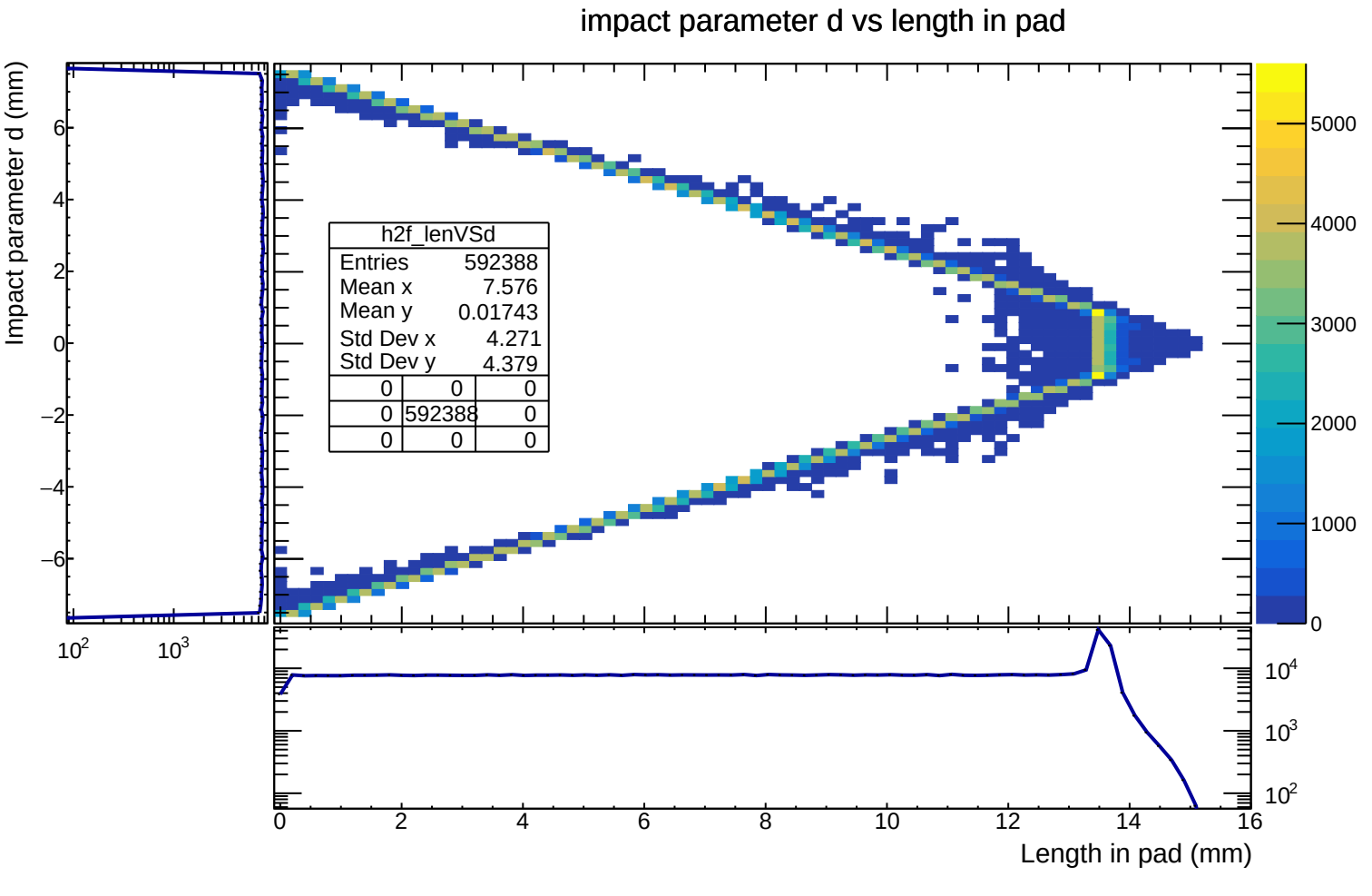

WF_sum VS length in cluster
h2f_WFvsLength
Entries 592388
Mean x 7.457
Mean y 869.3
Std Dev x 4.265
Std Dev y 393.6
0 31491 0
0 560897 0
0 0 0
WF_sum (ADC count)
Length in cluster (mm)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16


WF sum truncated VS length in cluster
h2f_WFtruncvsLength
Entries 355297
Mean x 8.639
Mean y 769.9
Std Dev x 3.706
Std Dev y 289.5
0 1645 0
0 353652 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


WF*sum VS length in cluster
h2f_WFstarvsLen
Entries 515783
Mean x 8.614
Mean y 981.6
Std Dev x 3.681
Std Dev y 356
0 34301 0
0 481482 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
500
1000
1500
2000
2500


WF*sum truncated VS length in cluster
WF*sum trunc (ADC count)
Length in cluster (mm)
h2f_WFstartrcvsLen
Entries 355297
Mean x 8.629
Mean y 976.9
Std Dev x 3.71
Std Dev y 356.4
0 24450 0
0 330847 0
0 0 0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 2 4 6 8 10 12 14 16
0 200 400 600 800 1000 1200 1400 1600 1800


$A_{max}(WF_{sum}) / L_{cluster}$
h1f_WFoLength
Entries 592388
Mean 219.2
Std Dev 352.6
Underflow 0
Overflow 5941
10^5
10^4
10^3
10^2
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 592388
Mean x 7.576
Mean y 0.01743
Std Dev x 4.271
Std Dev y 4.379
0 0 0
0 592388 0
0 0 0