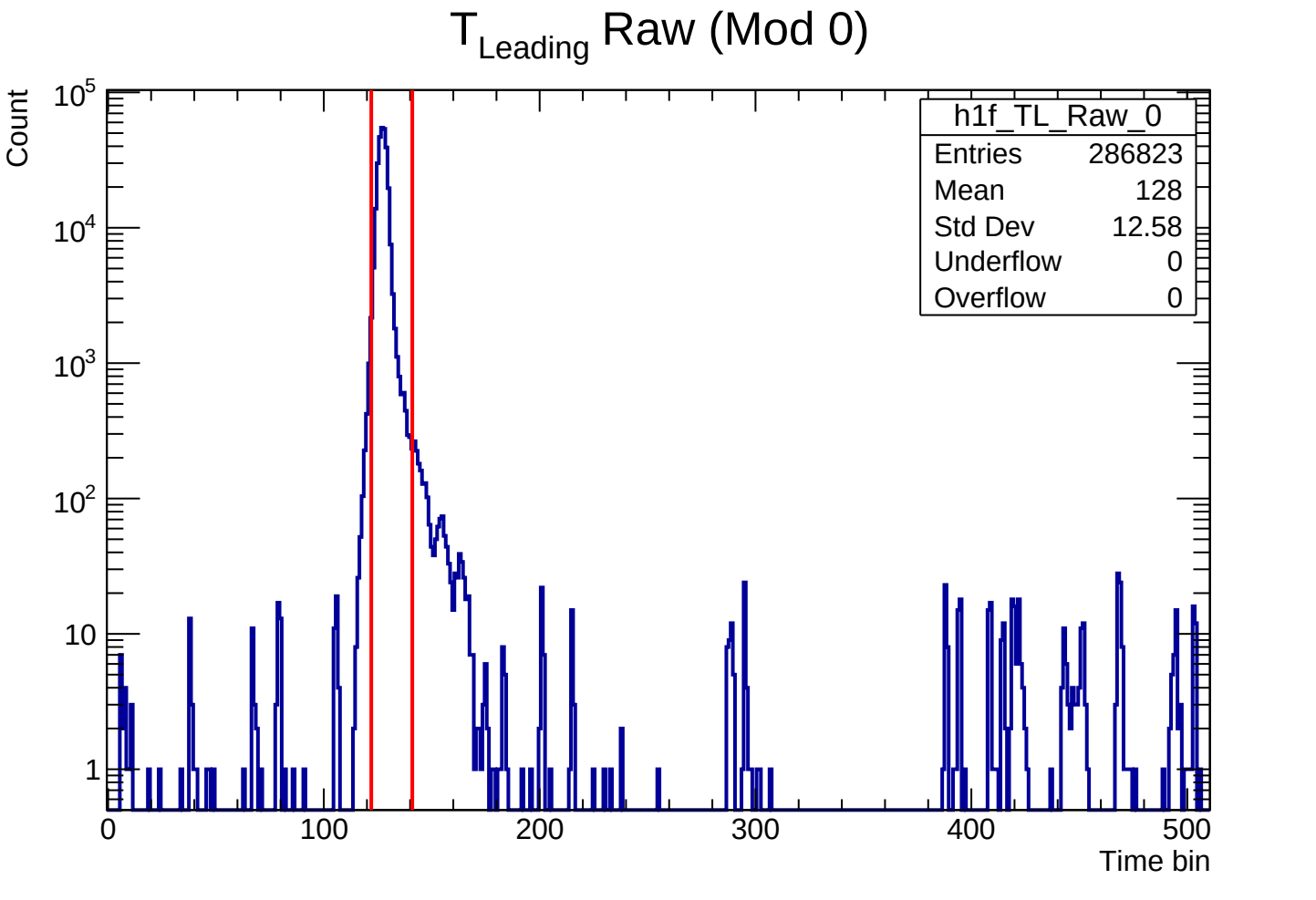
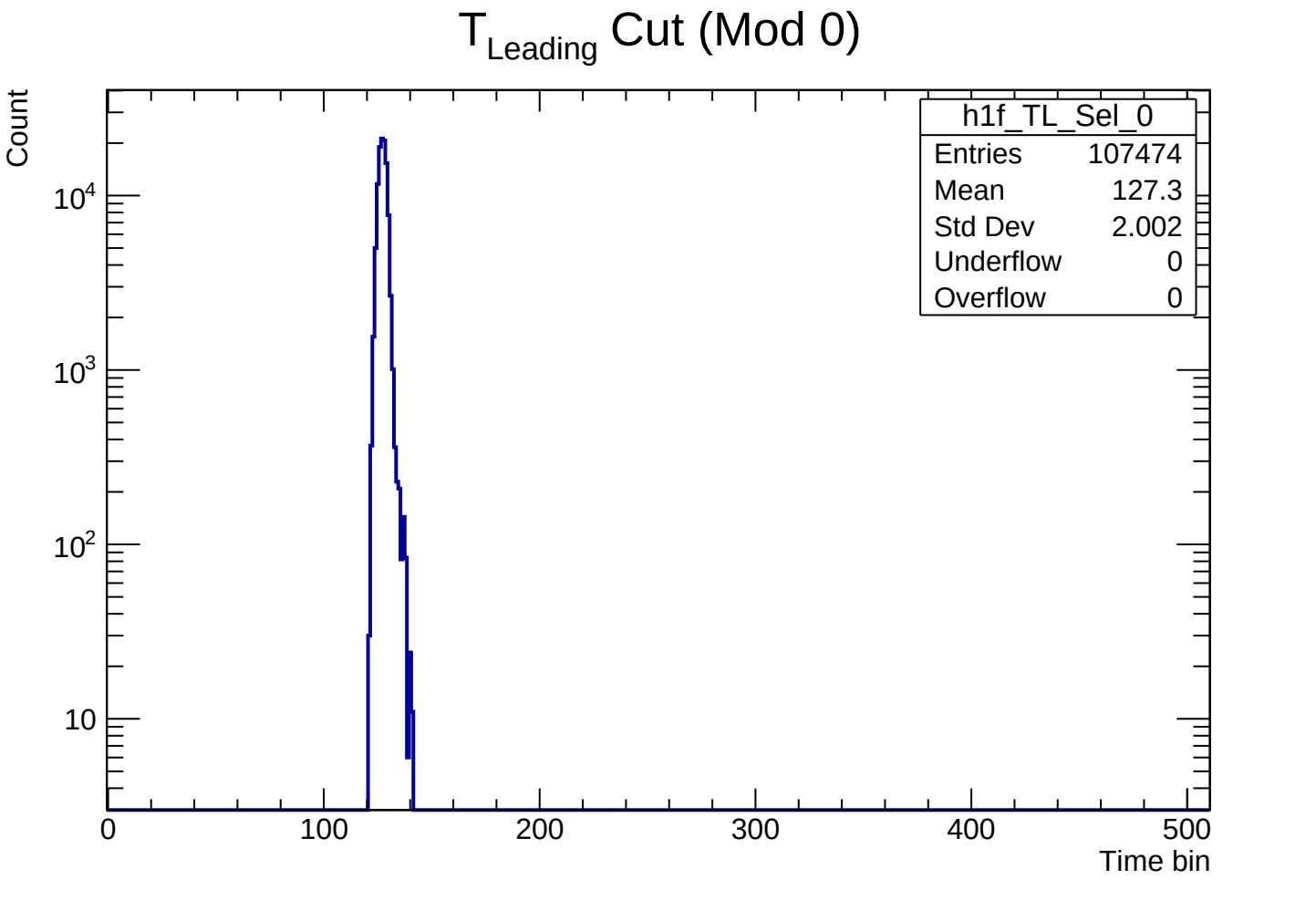
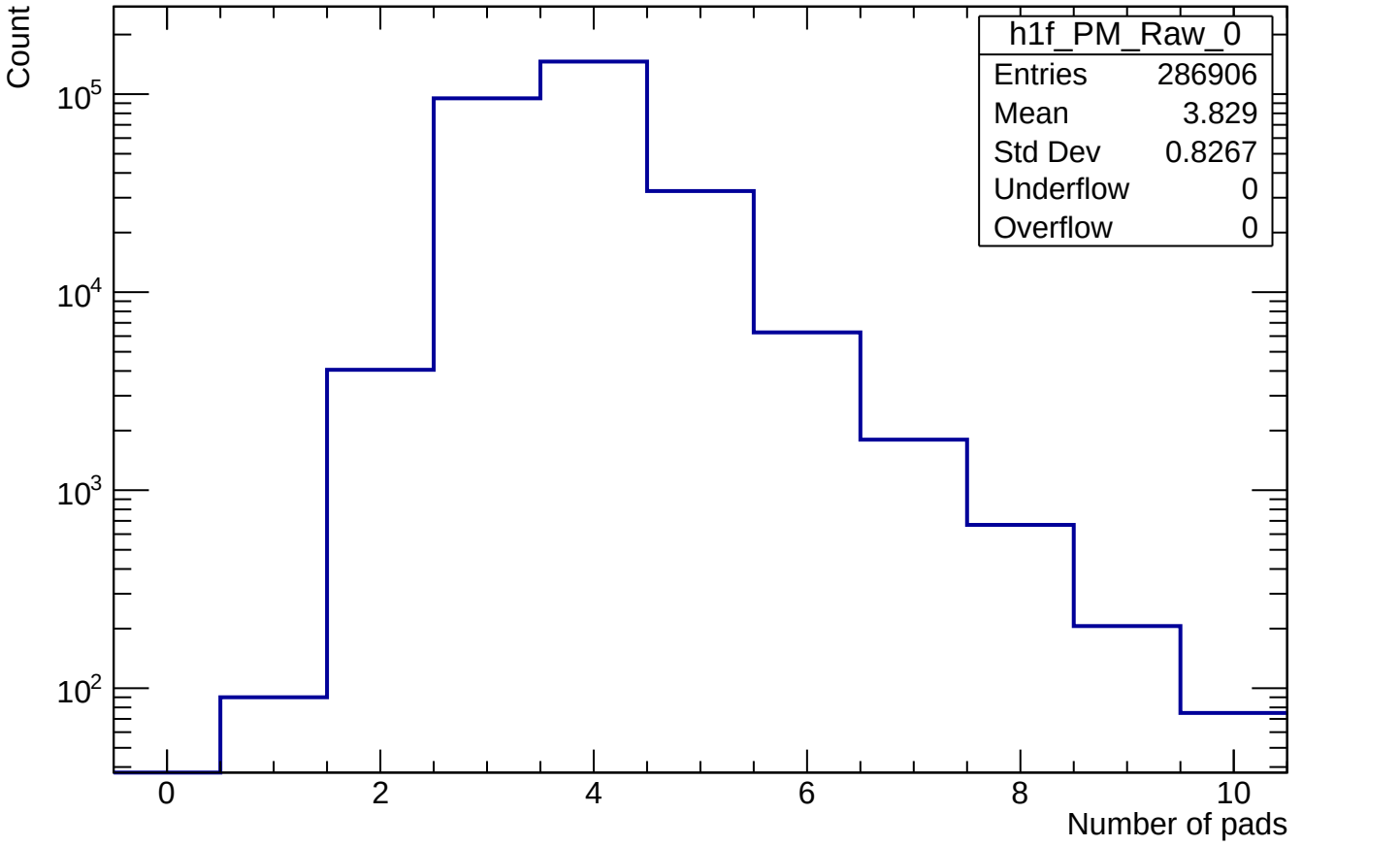
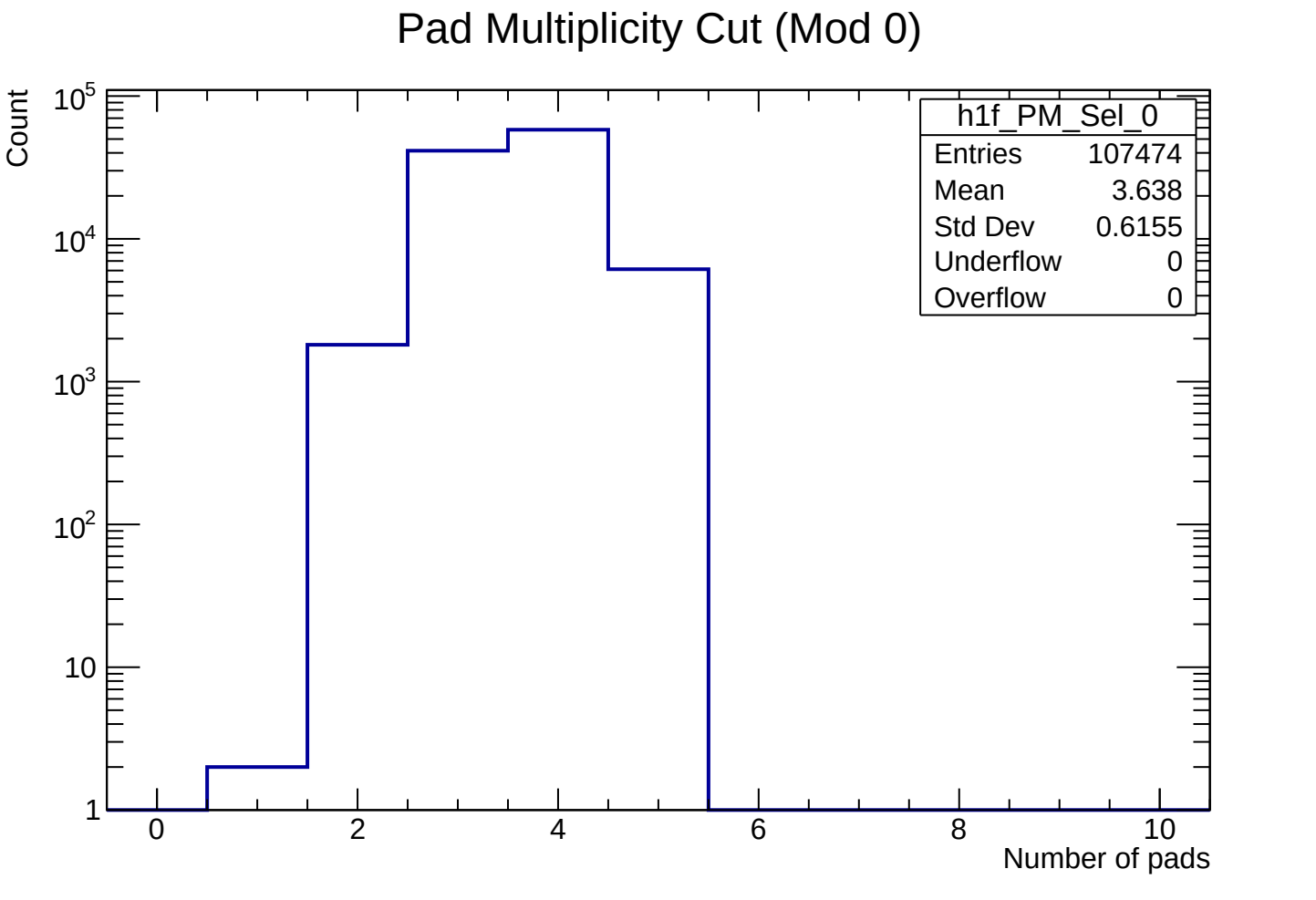
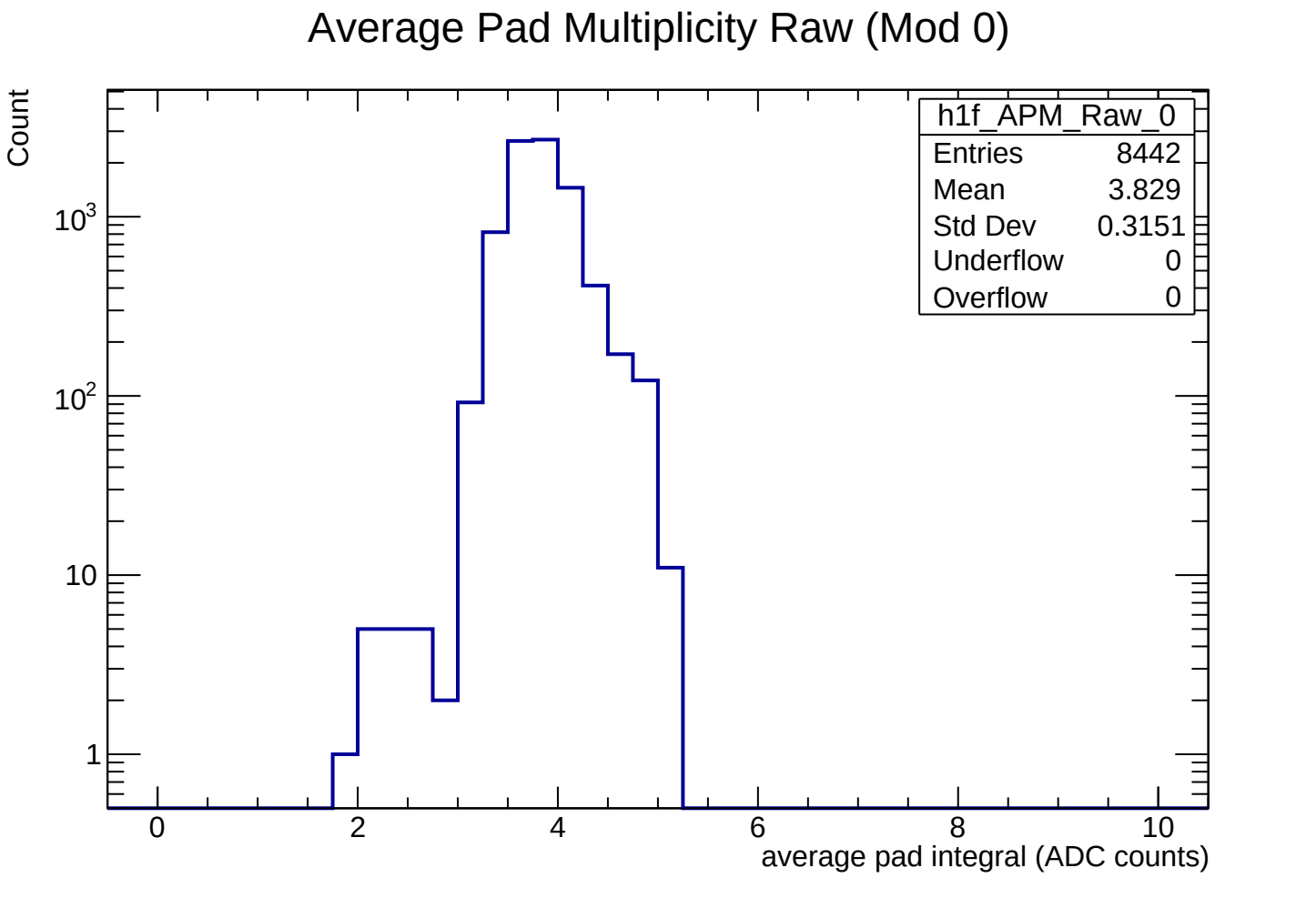
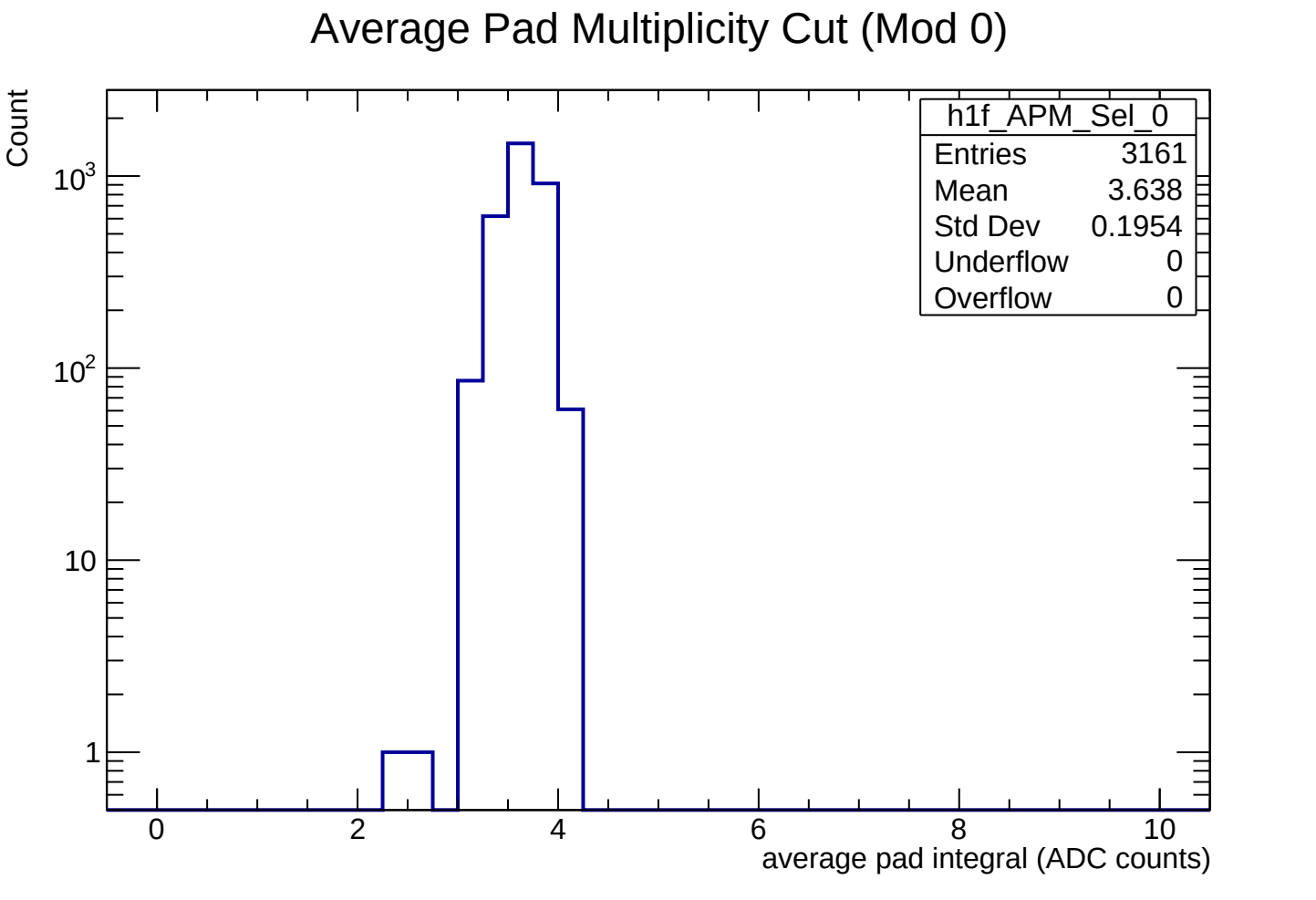

T Leading Raw (Mod 0)
Count
Time bin
h1f_TL_Raw_0
Entries 286823
Mean 128
Std Dev 12.58
Underflow 0
Overflow 0
10^5
10^4
10^3
10^2
10
1
0
100
200
300
400
500

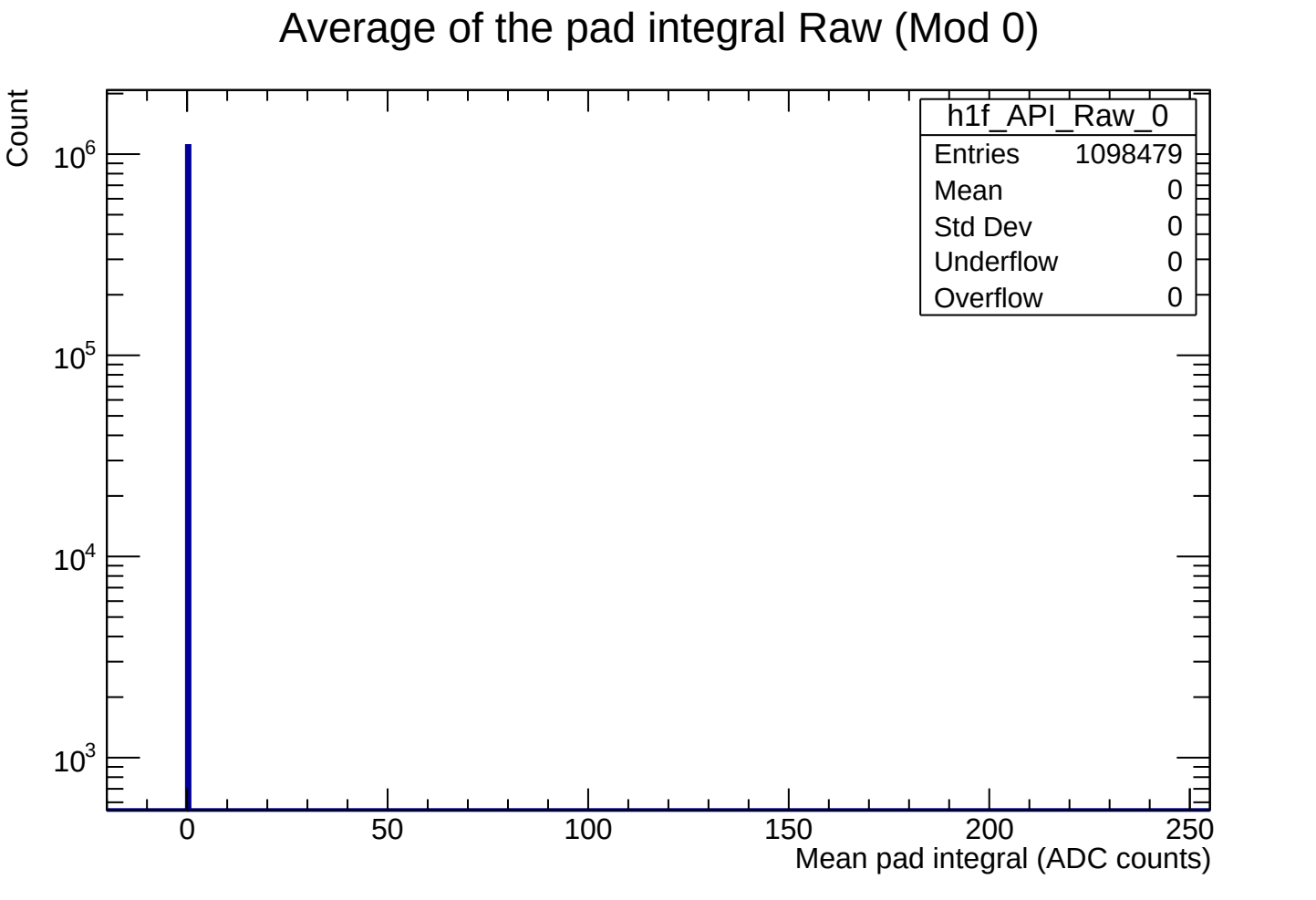

T Leading Cut (Mod 0)
Count
h1f_TL_Sel_0
Entries 107474
Mean 127.3
Std Dev 2.002
Underflow 0
Overflow 0
10^4
10^3
10^2
10
0
100
200
300
400
500
Time bin

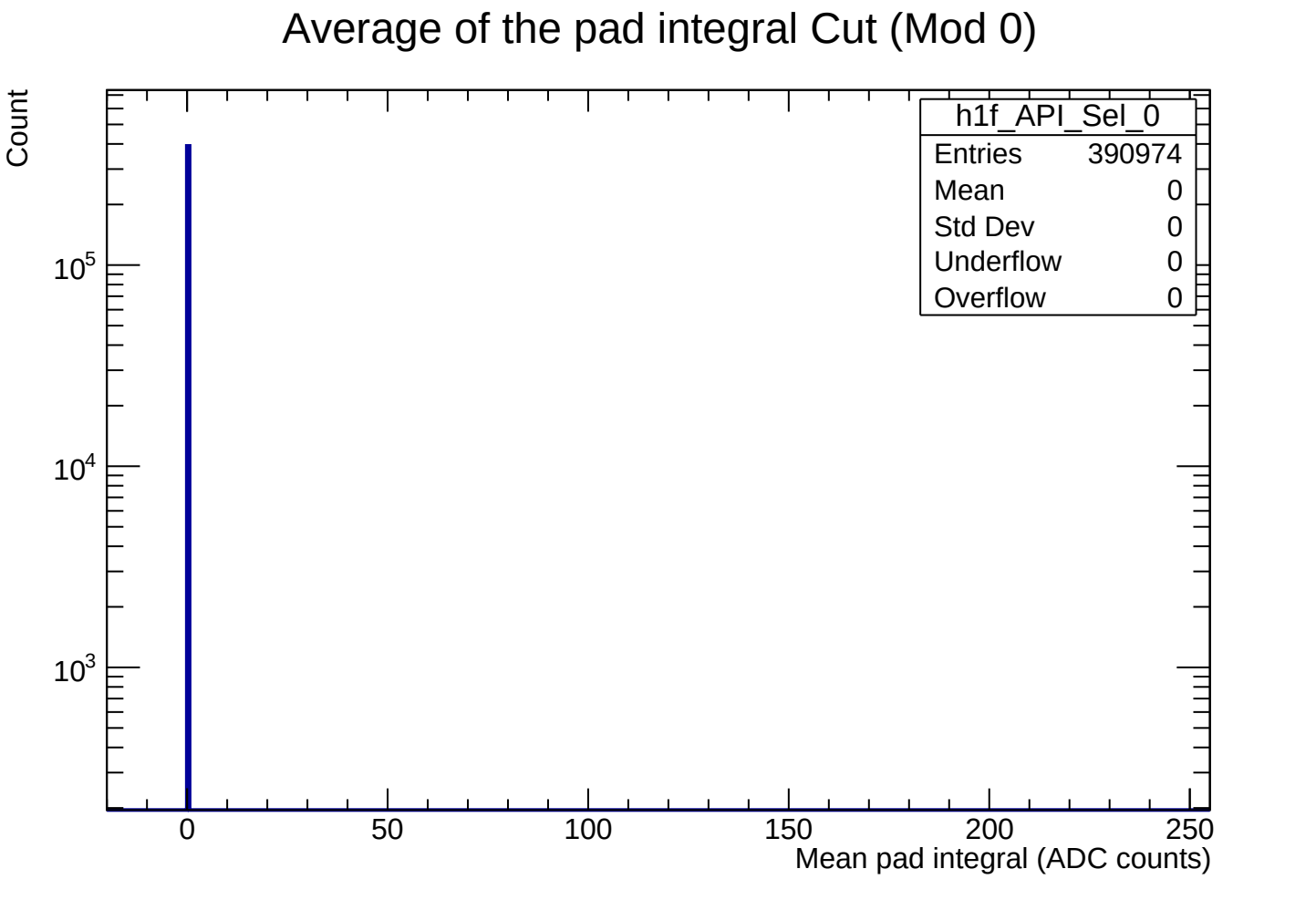

Pad Multiplicity Raw (Mod 0)
Count
$10^5$
$10^4$
$10^3$
$10^2$
0
2
4
6
8
10
Number of pads
h1f_PM_Raw_0
Entries 286906
Mean 3.829
Std Dev 0.8267
Underflow 0
Overflow 0

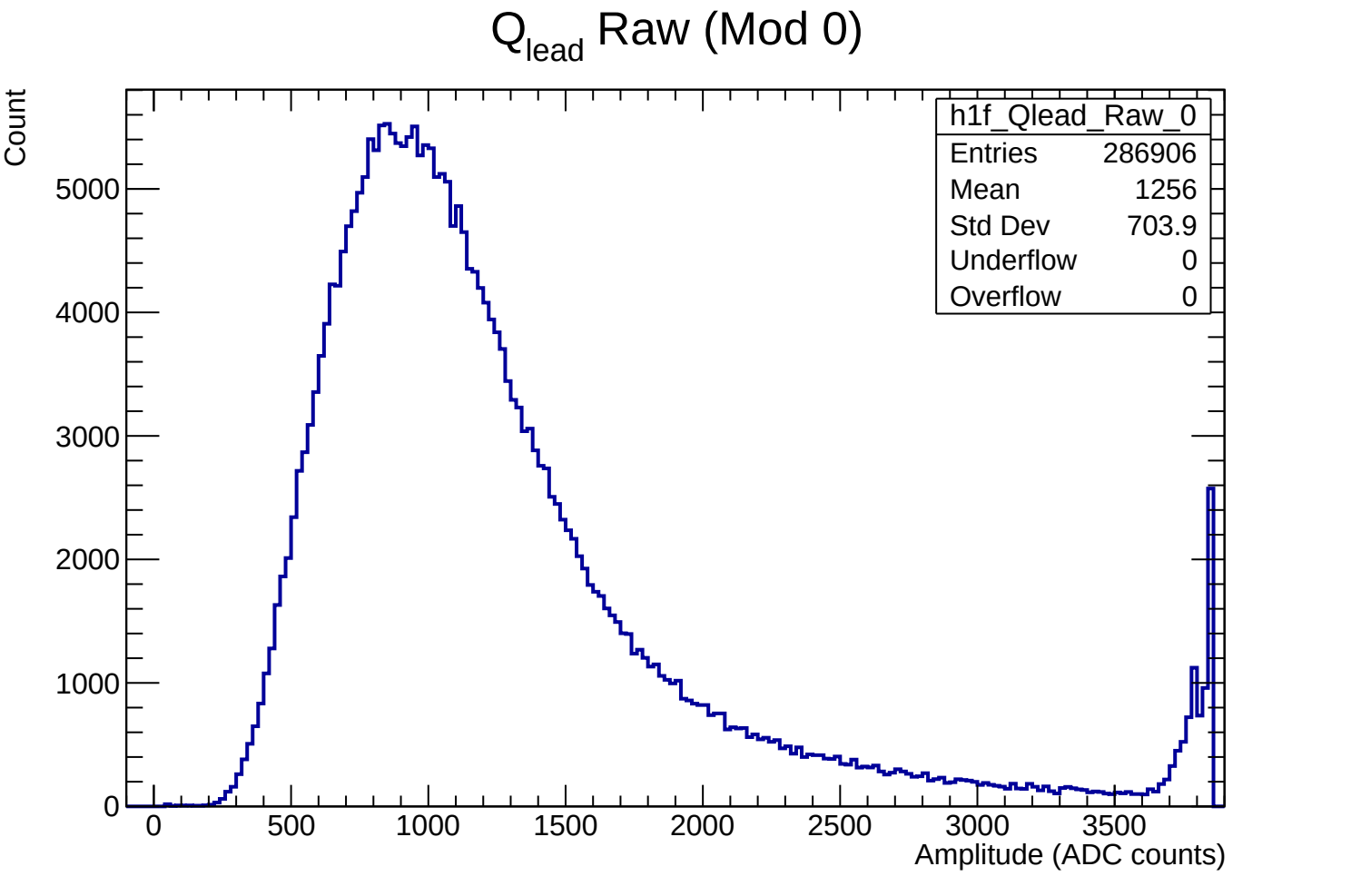

Pad Multiplicity Cut (Mod 0)
Count
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
2
4
6
8
10
Number of pads
h1f_PM_Sel_0
Entries 107474
Mean 3.638
Std Dev 0.6155
Underflow 0
Overflow 0

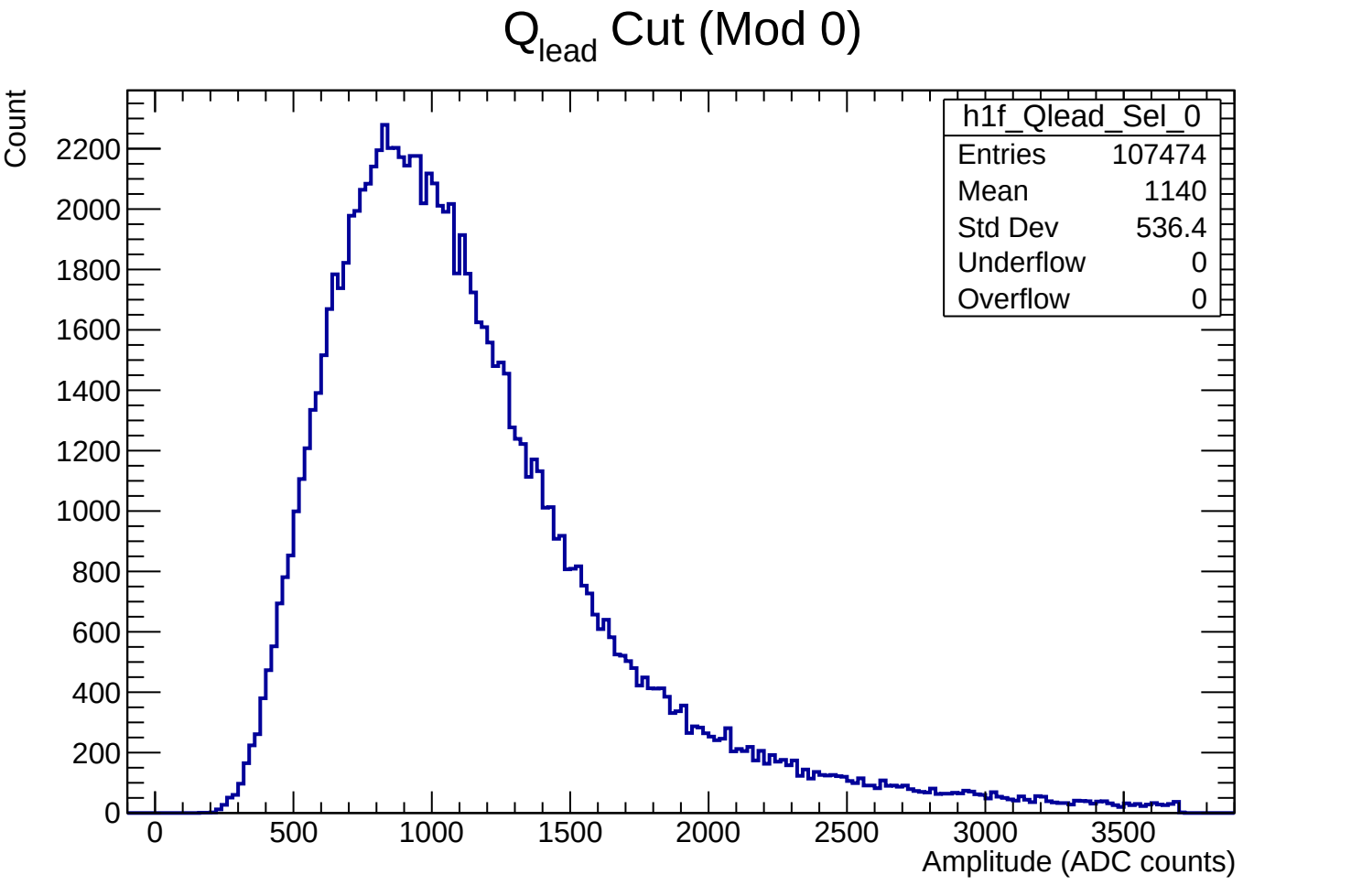

Average Pad Multiplicity Raw (Mod 0)
Count
$10^3$
$10^2$
10
1
0
2
4
6
8
10
average pad integral (ADC counts)
h1f_APM_Raw_0
Entries 8442
Mean 3.829
Std Dev 0.3151
Underflow 0
Overflow 0

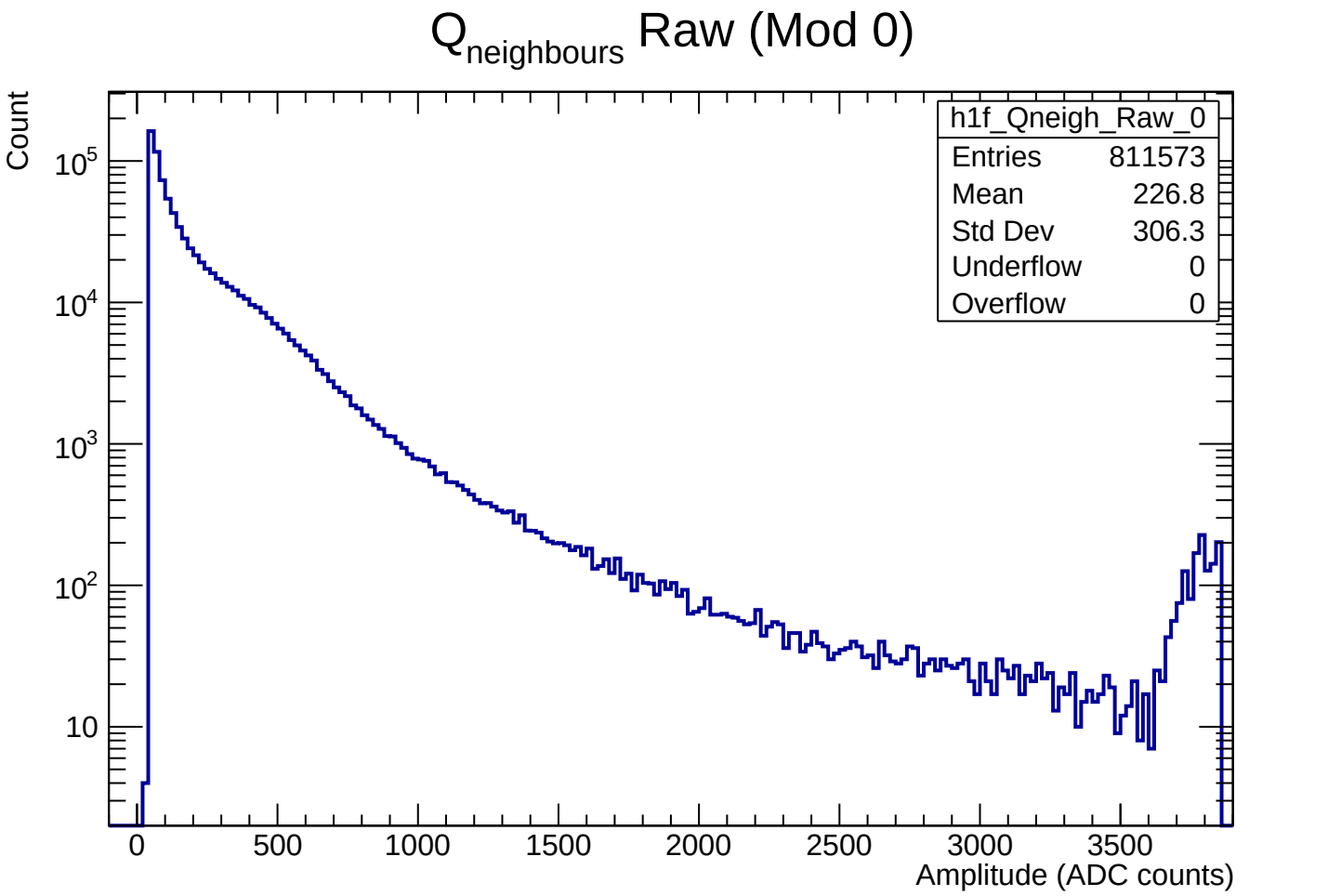

Average Pad Multiplicity Cut (Mod 0)
Count
$10^3$
$10^2$
10
1
0
2
4
6
8
10
average pad integral (ADC counts)
h1f_APM_Sel_0
Entries 3161
Mean 3.638
Std Dev 0.1954
Underflow 0
Overflow 0

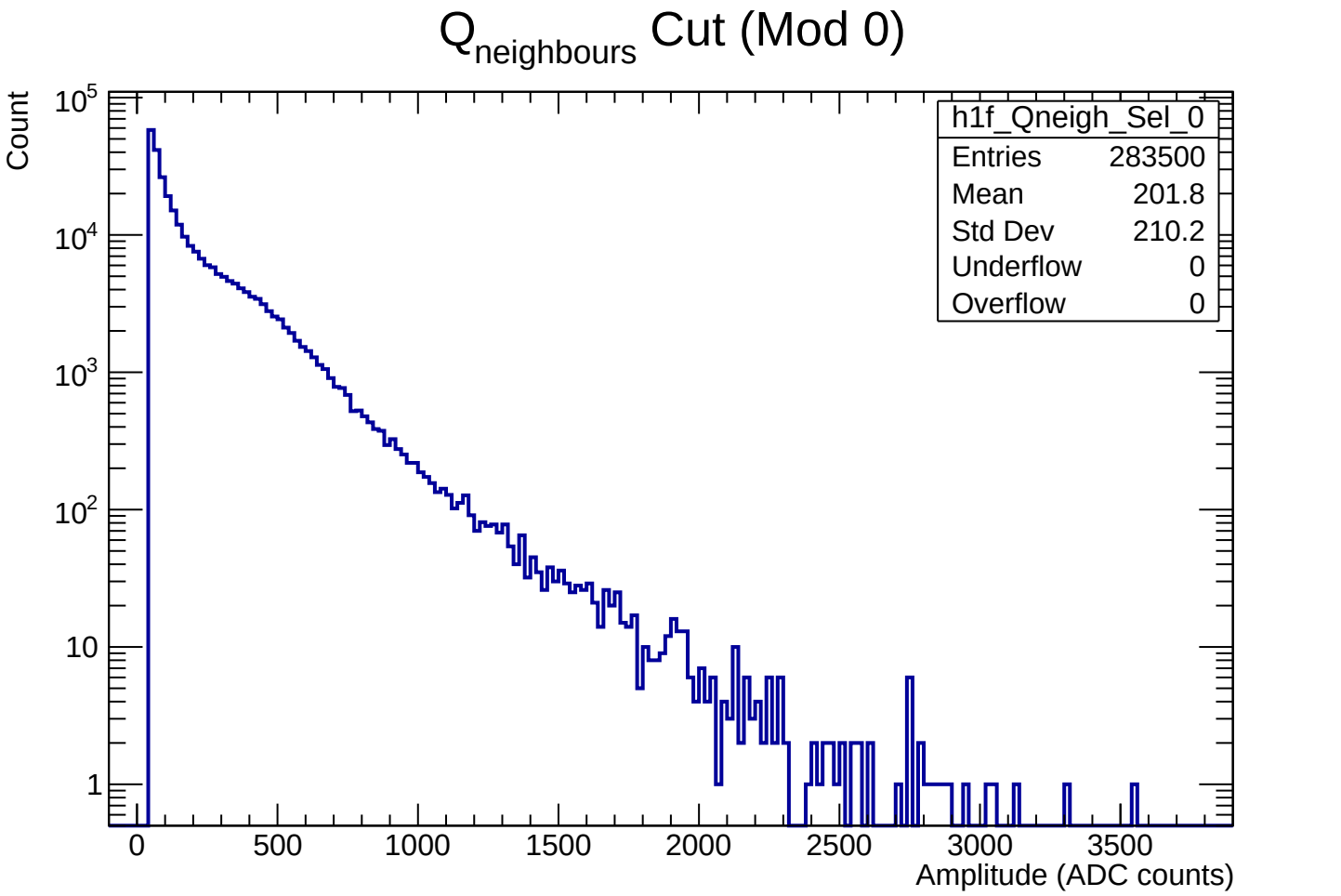

Average of the pad integral Raw (Mod 0)
Count
$10^6$
$10^5$
$10^4$
$10^3$
h1f_API_Raw_0
Entries 1098479
Mean 0
Std Dev 0
Underflow 0
Overflow 0
0
50
100
150
200
250
Mean pad integral (ADC counts)

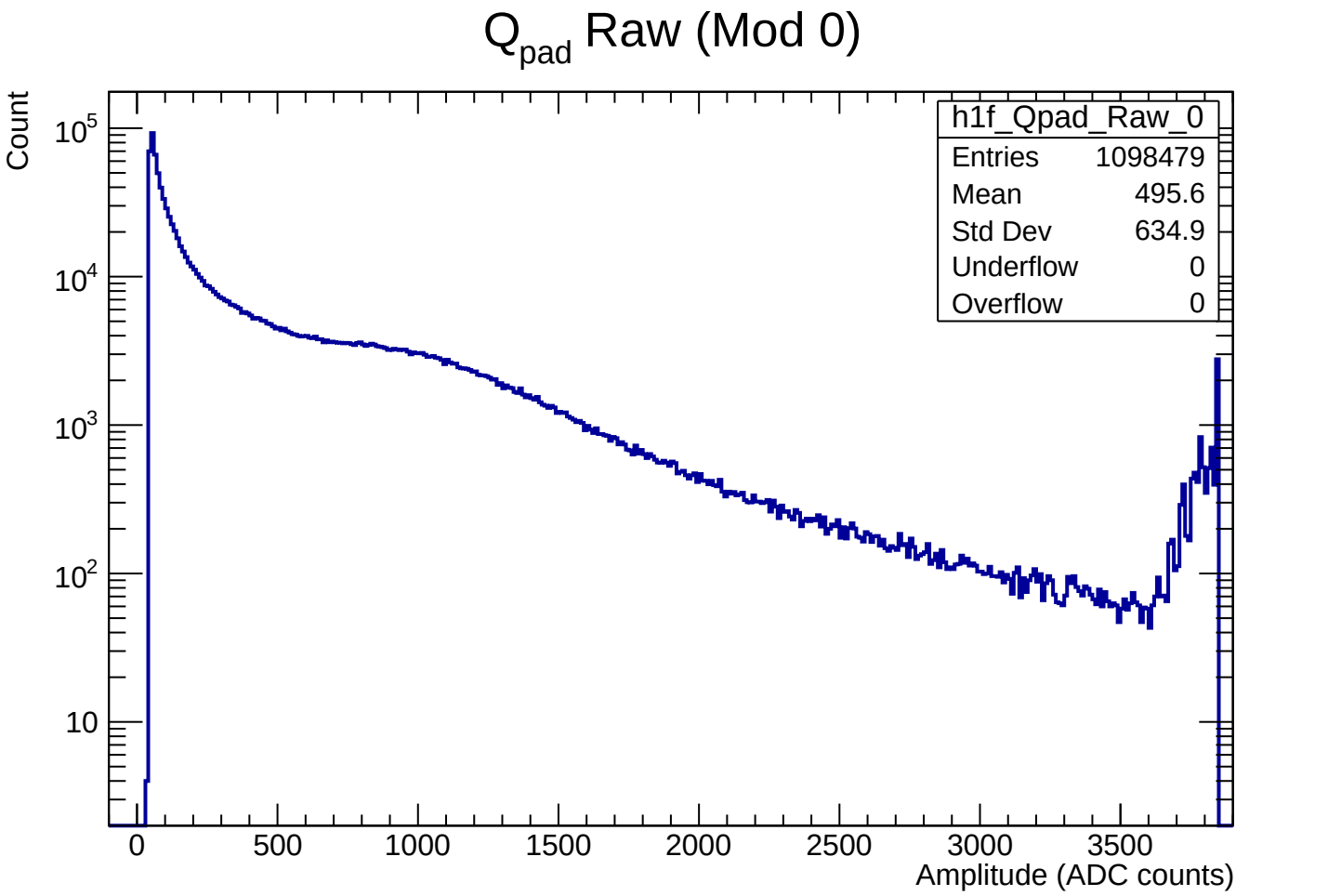

Average of the pad integral Cut (Mod 0)
Count
$10^5$
$10^4$
$10^3$
h1f_API_Sel_0
Entries 390974
Mean 0
Std Dev 0
Underflow 0
Overflow 0
0
50
100
150
200
250
Mean pad integral (ADC counts)

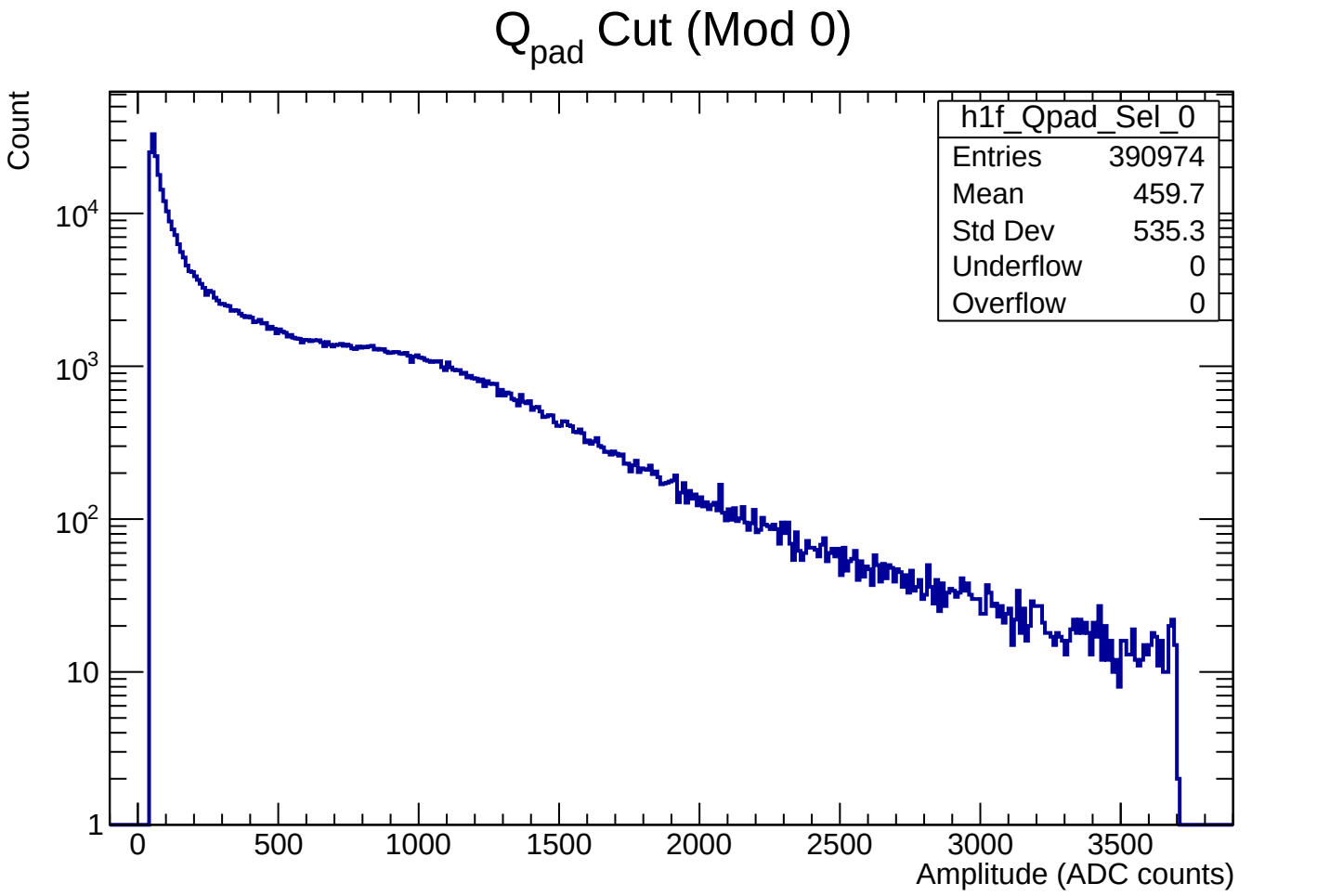

$Q_{lead}$ Raw (Mod 0)
Count
h1f_Qlead_Raw_0
Entries 286906
Mean 1256
Std Dev 703.9
Underflow 0
Overflow 0
0
1000
2000
3000
4000
5000
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)

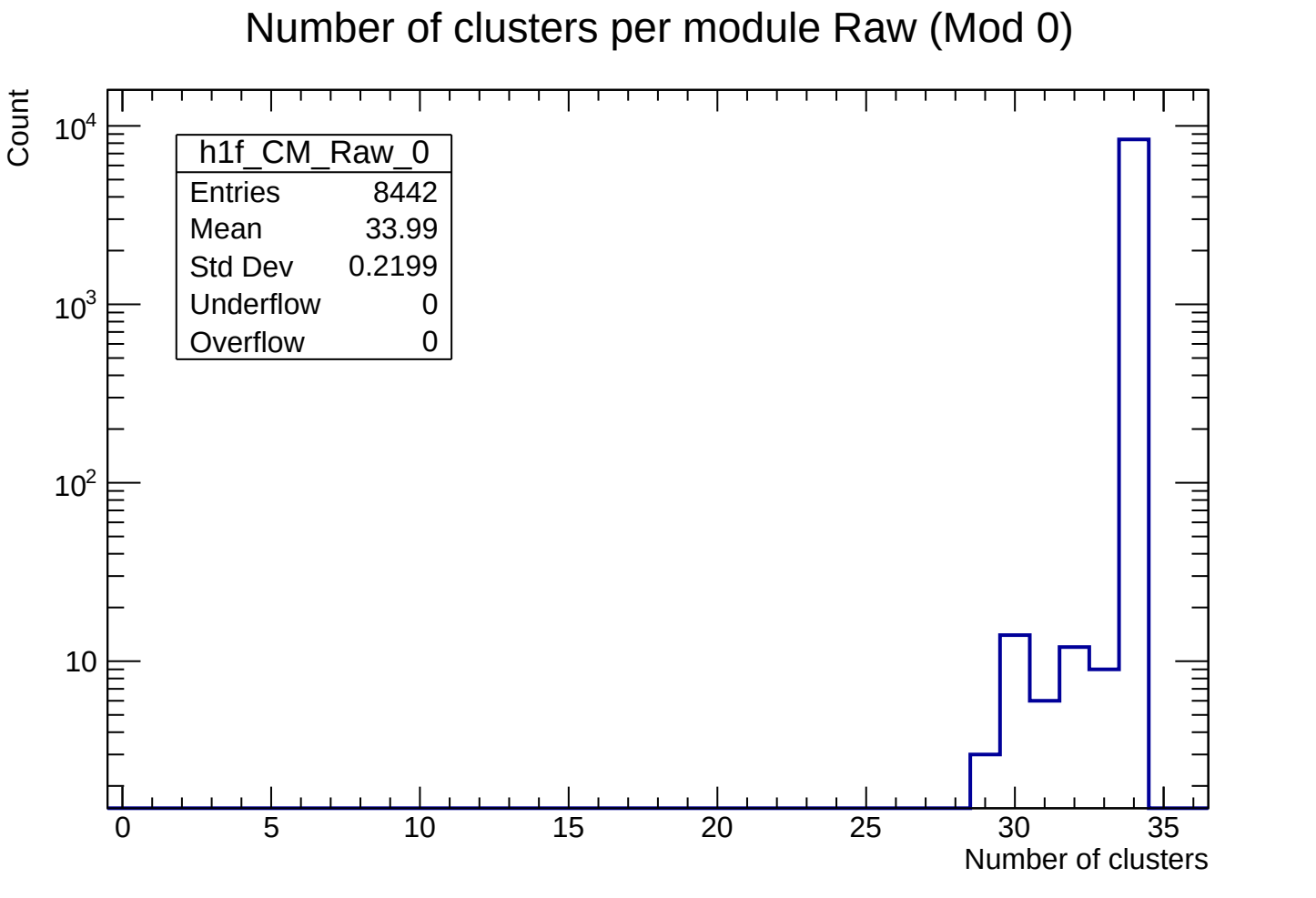

$Q_{lead}$ Cut (Mod 0)
Count
Amplitude (ADC counts)
h1f_Qlead_Sel_0
Entries 107474
Mean 1140
Std Dev 536.4
Underflow 0
Overflow 0
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0
500
1000
1500
2000
2500
3000
3500

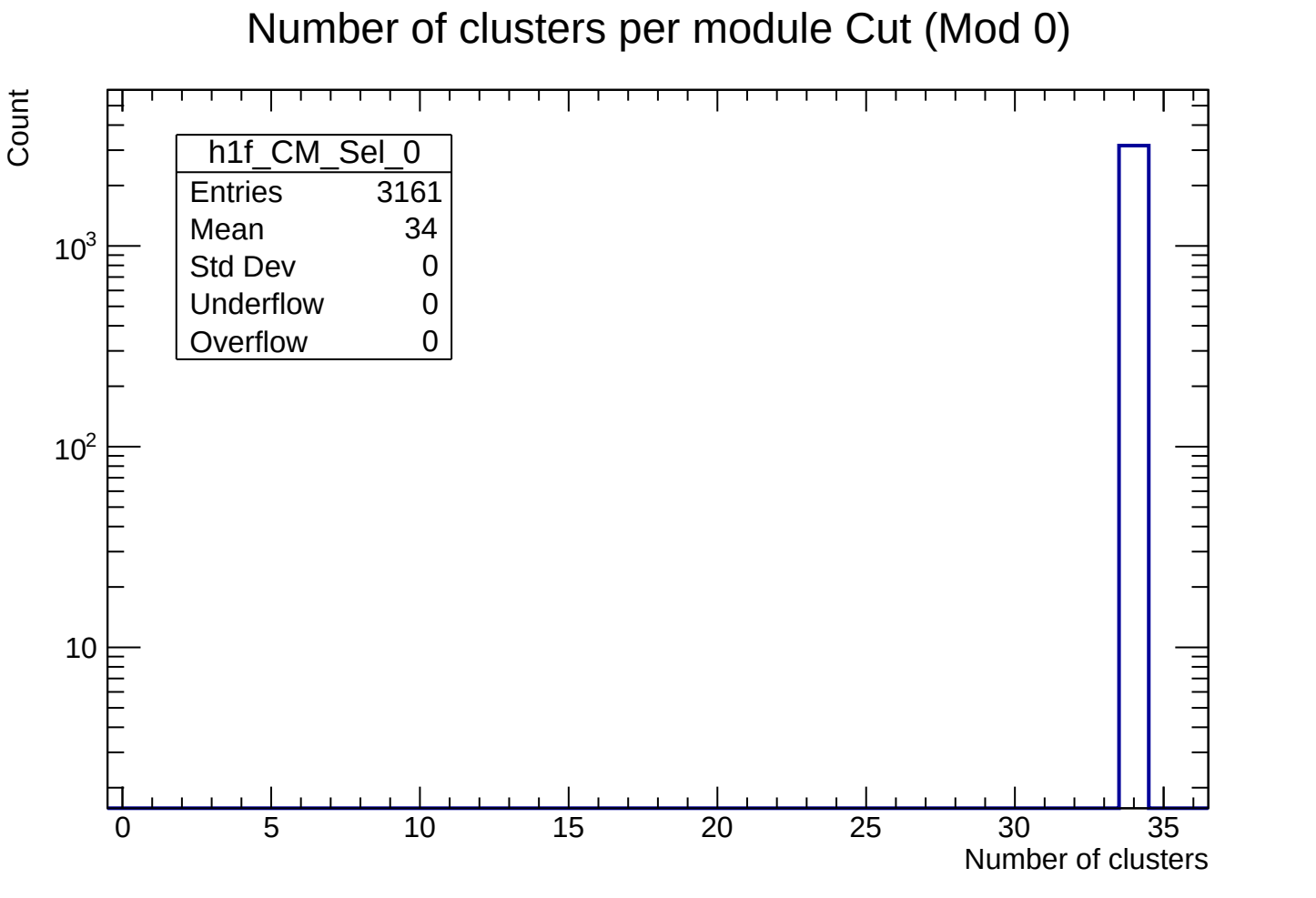

$Q_{neighbours}$ Raw (Mod 0)
Count
$10^5$
$10^4$
$10^3$
$10^2$
10
h1f_Qneigh_Raw_0
Entries 811573
Mean 226.8
Std Dev 306.3
Underflow 0
Overflow 0
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)

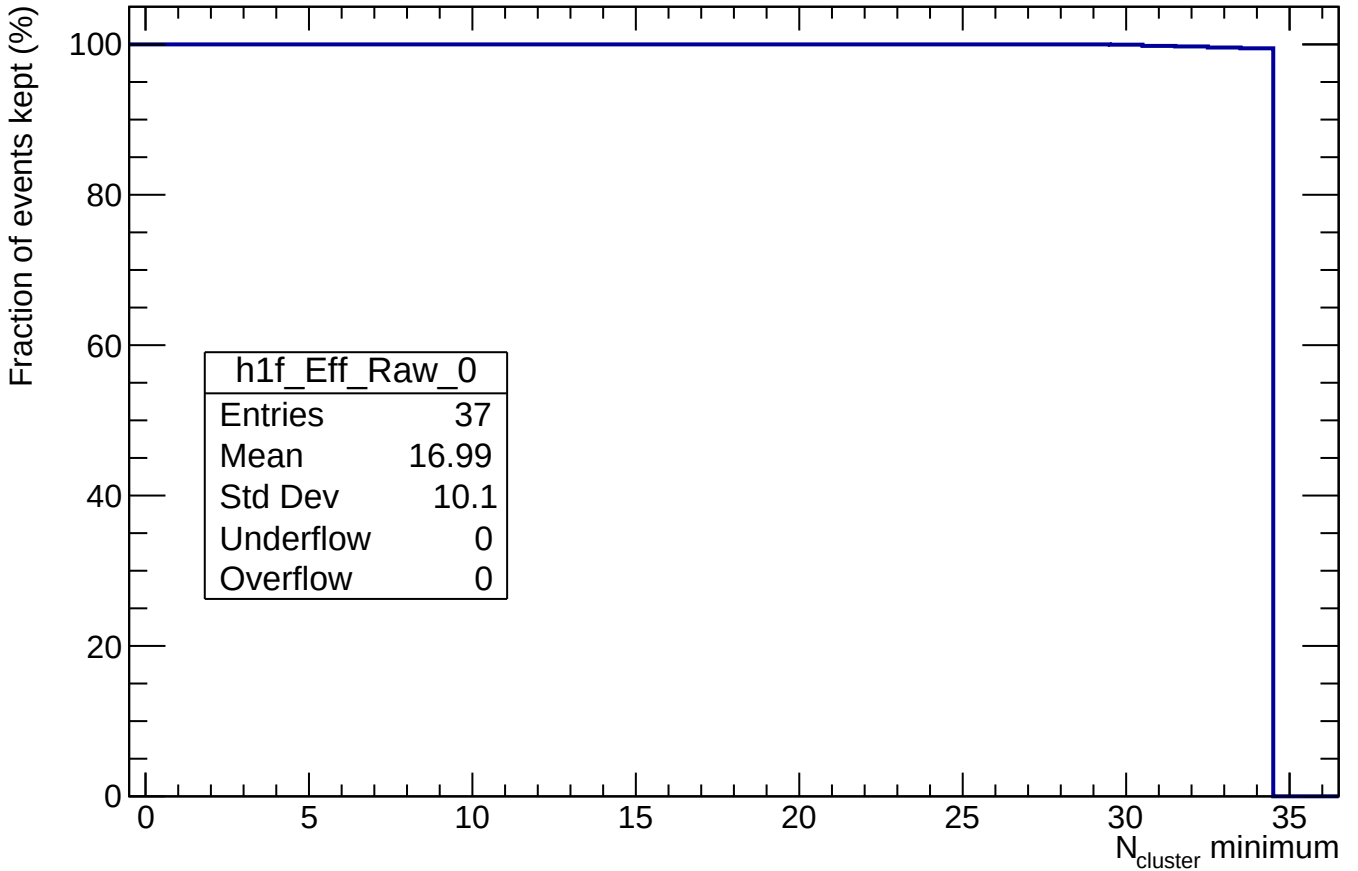

$Q_{neighbours}$ Cut (Mod 0)
Count
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qneigh_Sel_0
Entries 283500
Mean 201.8
Std Dev 210.2
Underflow 0
Overflow 0

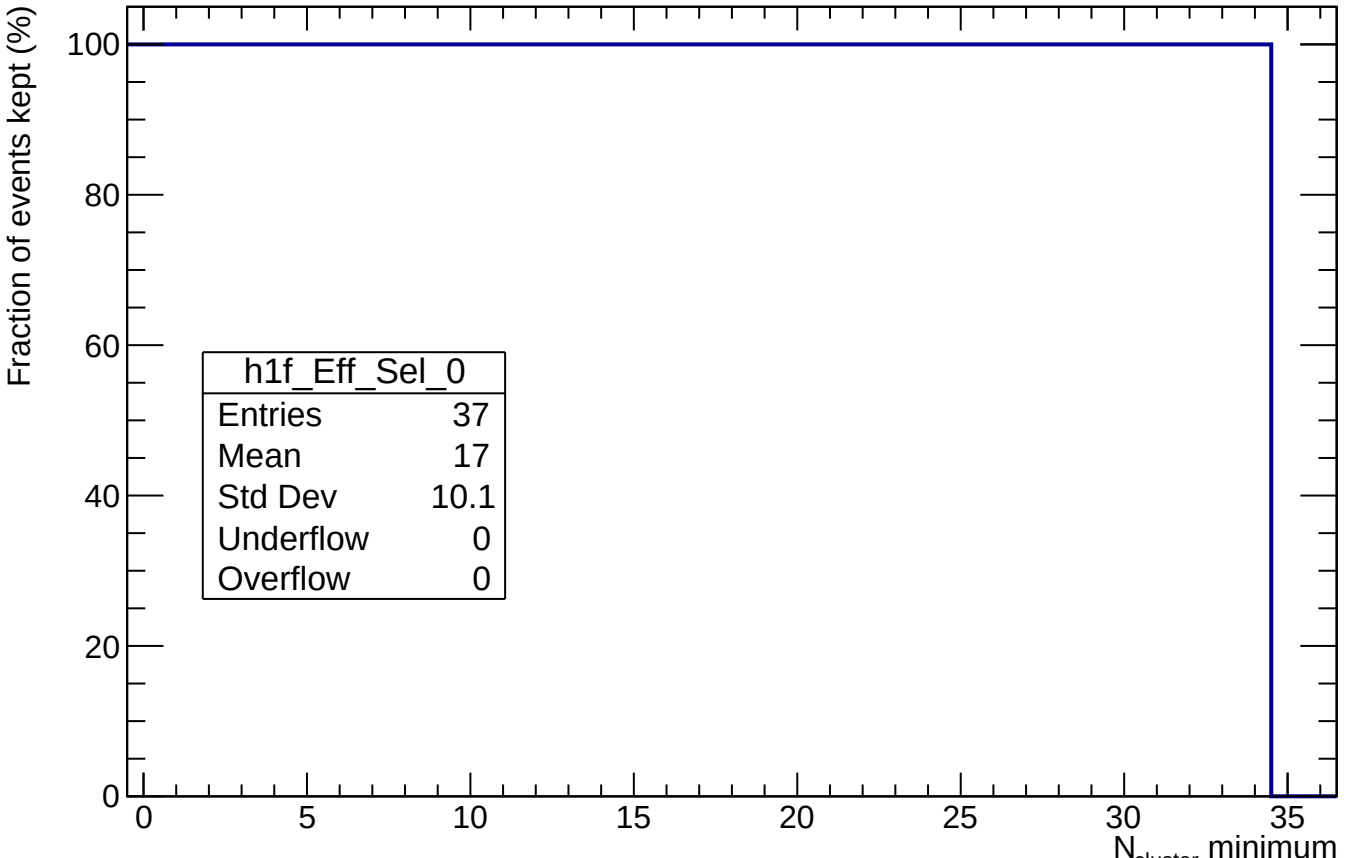

$Q_{pad}$ Raw (Mod 0)
Count
$10^5$
$10^4$
$10^3$
$10^2$
10
h1f_Qpad_Raw_0
Entries 1098479
Mean 495.6
Std Dev 634.9
Underflow 0
Overflow 0
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)

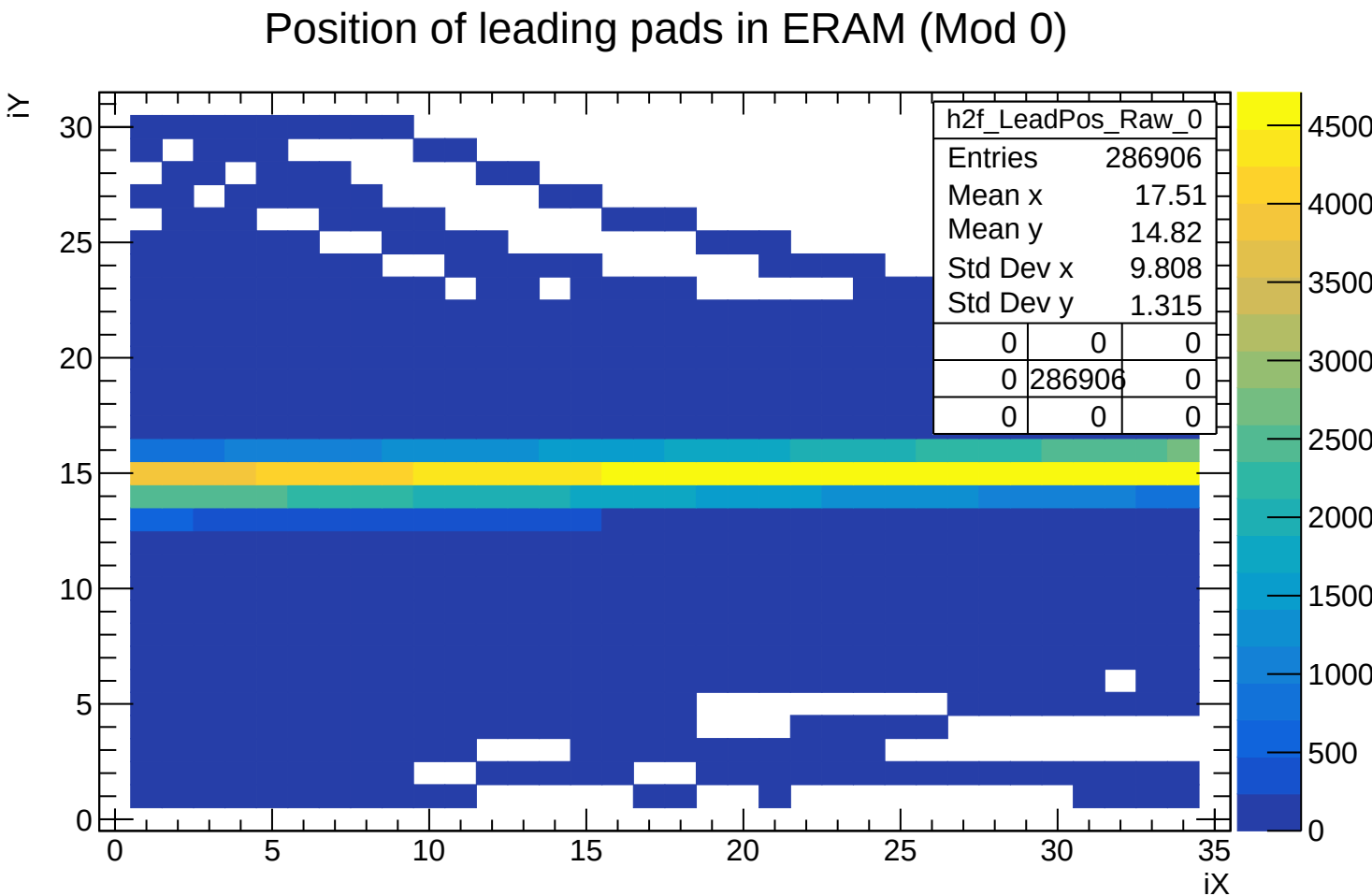

$Q_{pad}$ Cut (Mod 0)
Count
h1f_Qpad_Sel_0
Entries 390974
Mean 459.7
Std Dev 535.3
Underflow 0
Overflow 0
$10^4$
$10^3$
$10^2$
10
1
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)

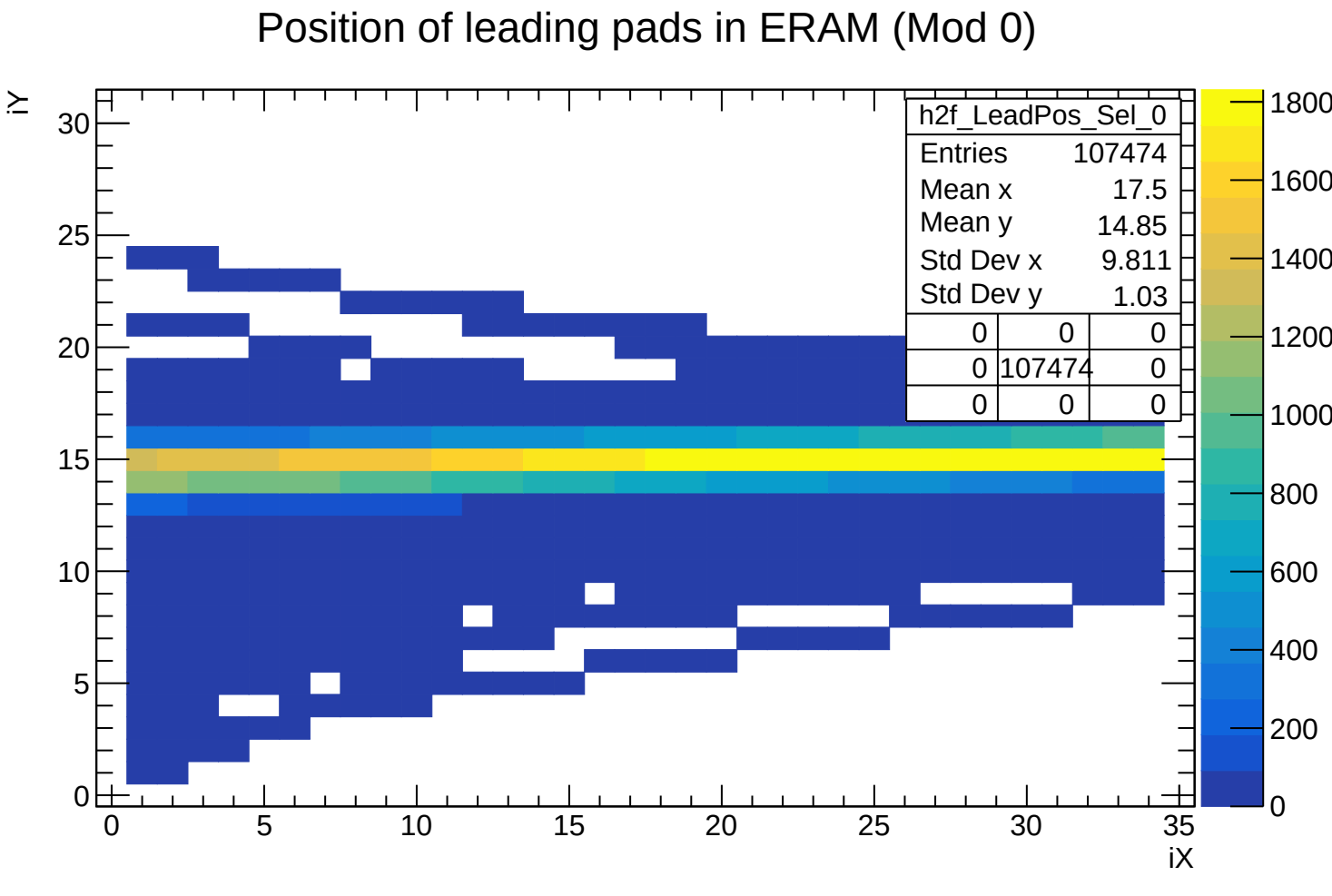

Number of clusters per module Raw (Mod 0)
Count
h1f_CM_Raw_0
Entries 8442
Mean 33.99
Std Dev 0.2199
Underflow 0
Overflow 0
$10^4$
$10^3$
$10^2$
10
0
5
10
15
20
25
30
35
Number of clusters

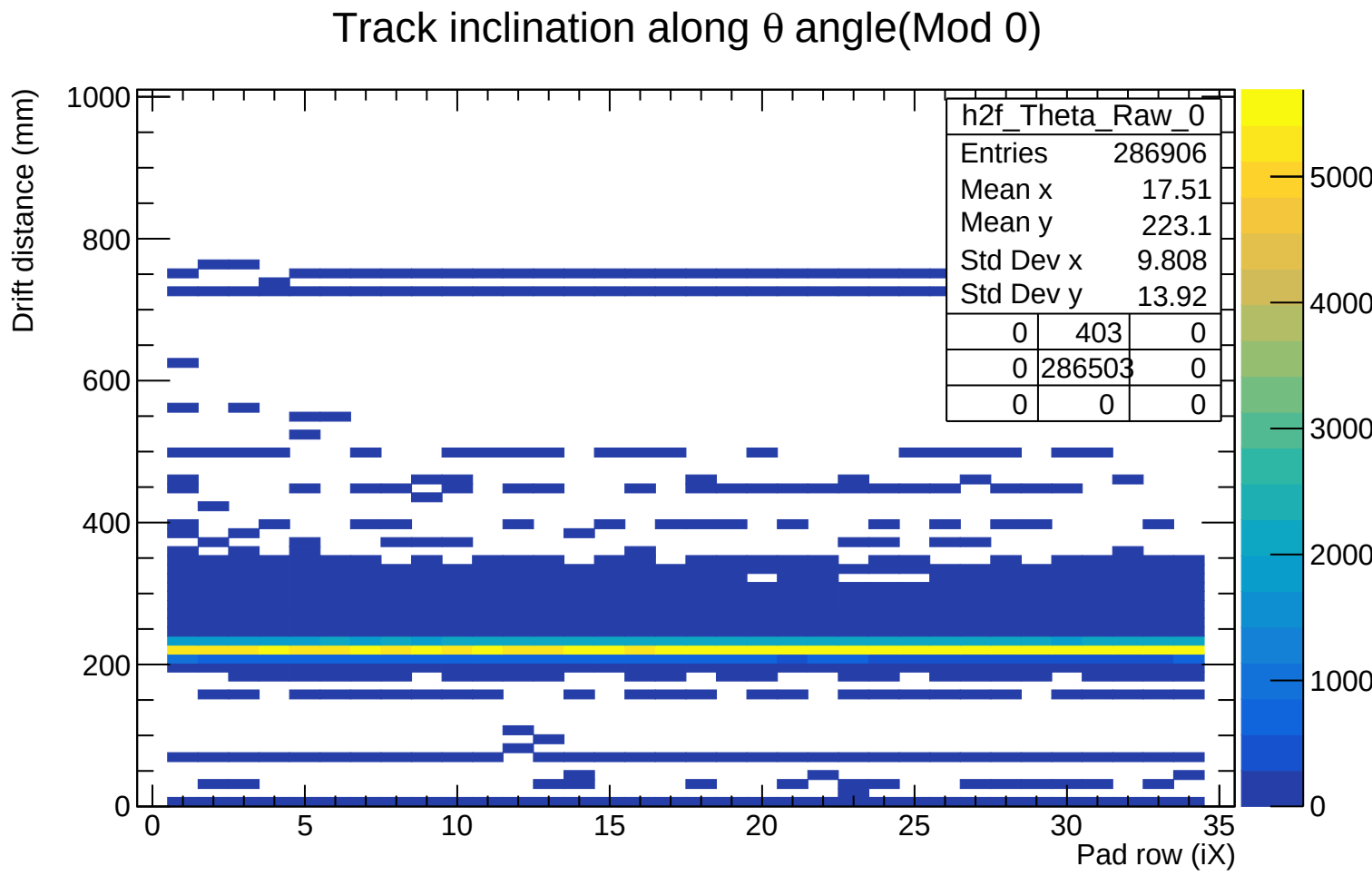

Number of clusters per module Cut (Mod 0)
Count
h1f_CM_Sel_0
Entries 3161
Mean 34
Std Dev 0
Underflow 0
Overflow 0
10^3
10^2
10
0
5
10
15
20
25
30
35
Number of clusters

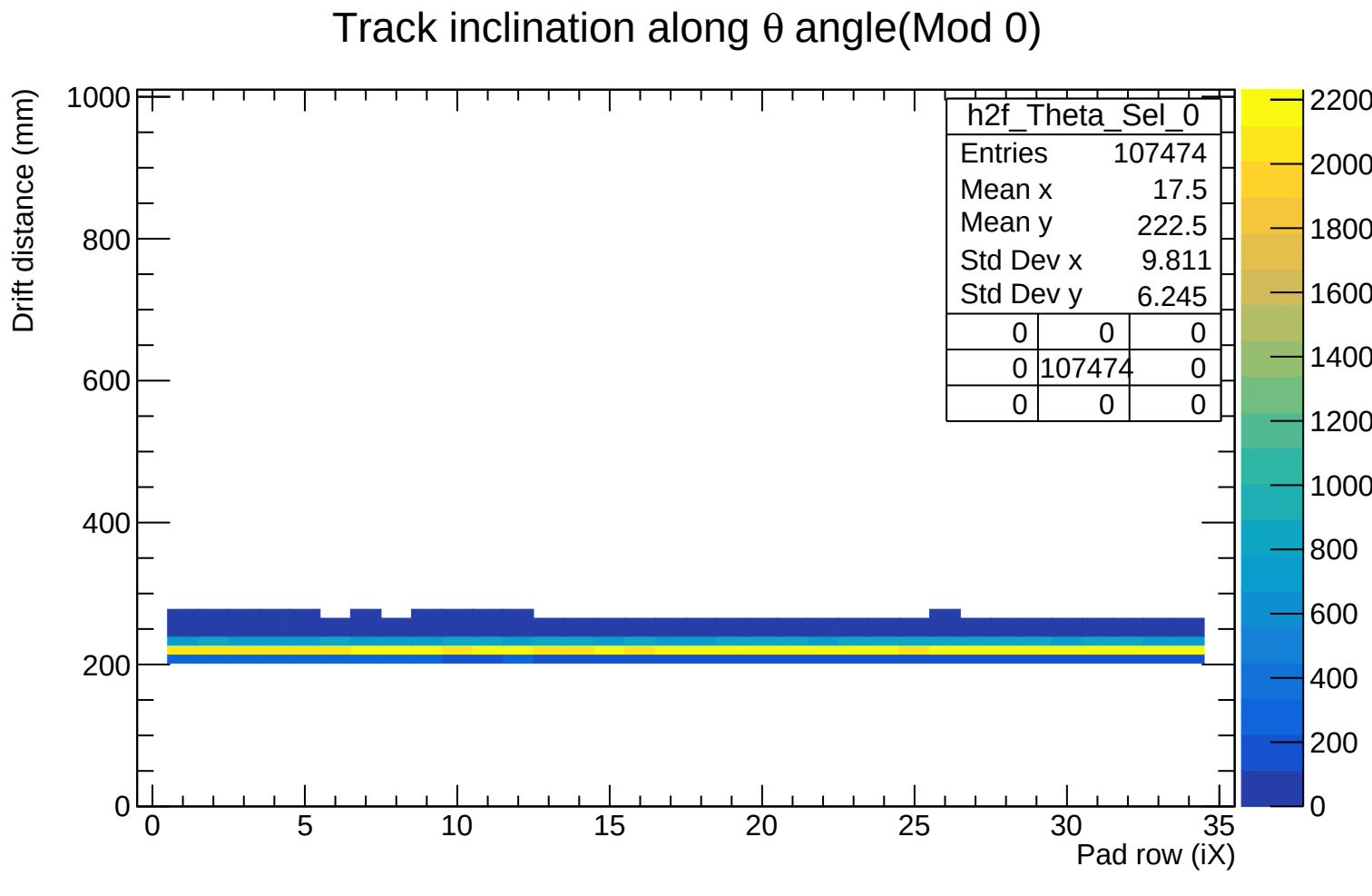

Efficiency : final fraction of events Raw (Mod 0)
Fraction of events kept (%)
100
80
60
40
20
0
0
5
10
15
20
25
30
35
N cluster minimum
h1f_Eff_Raw_0
Entries 37
Mean 16.99
Std Dev 10.1
Underflow 0
Overflow 0


Efficiency : final fraction of events Cut (Mod 0)
Fraction of events kept (%)
100
80
60
40
20
0
0
5
10
15
20
25
30
35
N cluster minimum
h1f_Eff_Sel_0
Entries 37
Mean 17
Std Dev 10.1
Underflow 0
Overflow 0


Position of leading pads in ERAM (Mod 0)
iY
iX
h2f_LeadPos_Raw_0
Entries 286906
Mean x 17.51
Mean y 14.82
Std Dev x 9.808
Std Dev y 1.315
0 0 0
0 286906 0
0 0 0
0
5
10
15
20
25
30
35
500
1000
1500
2000
2500
3000
3500
4000
4500


Position of leading pads in ERAM (Mod 0)
h2f_LeadPos_Sel_0
Entries 107474
Mean x 17.5
Mean y 14.85
Std Dev x 9.811
Std Dev y 1.03
0 0 0
0 107474 0
0 0 0
iY
iX
0
5
10
15
20
25
30
35
200
400
600
800
1000
1200
1400
1600
1800


Track inclination along θ angle(Mod 0)
Drift distance (mm)
1000
800
600
400
200
0
0
5
10
15
20
25
30
35
Pad row (iX)
5000
4000
3000
2000
1000
0
h2f_Theta_Raw_0
Entries 286906
Mean x 17.51
Mean y 223.1
Std Dev x 9.808
Std Dev y 13.92
0 403 0
0 286503 0
0 0 0


Track inclination along θ angle(Mod 0)
h2f_Theta_Sel_0
Entries 107474
Mean x 17.5
Mean y 222.5
Std Dev x 9.811
Std Dev y 6.245
0 0 0
0 107474 0
0 0 0
Drift distance (mm)
Pad row (iX)
0
200
400
600
800
1000
0
5
10
15
20
25
30
35
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200