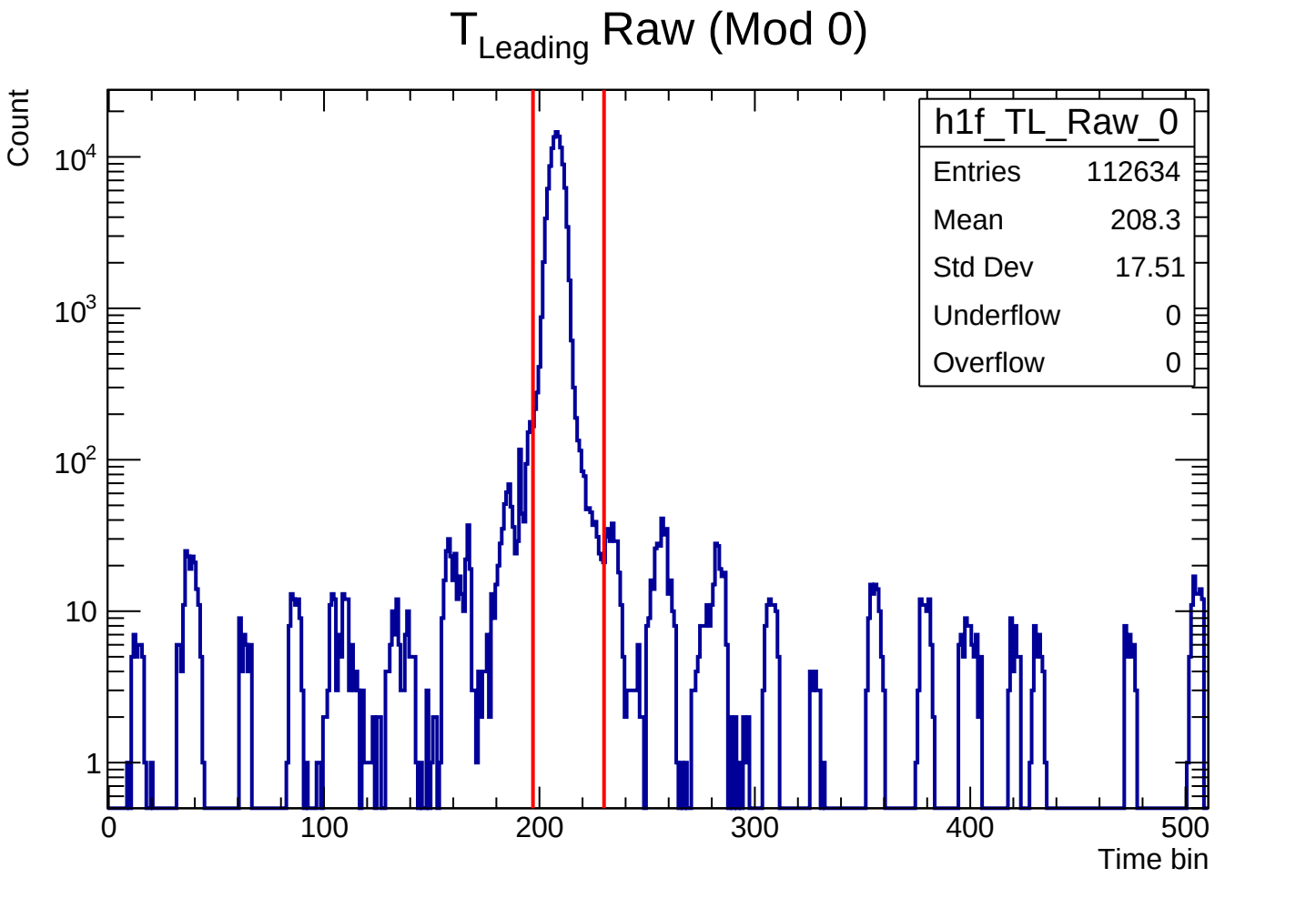
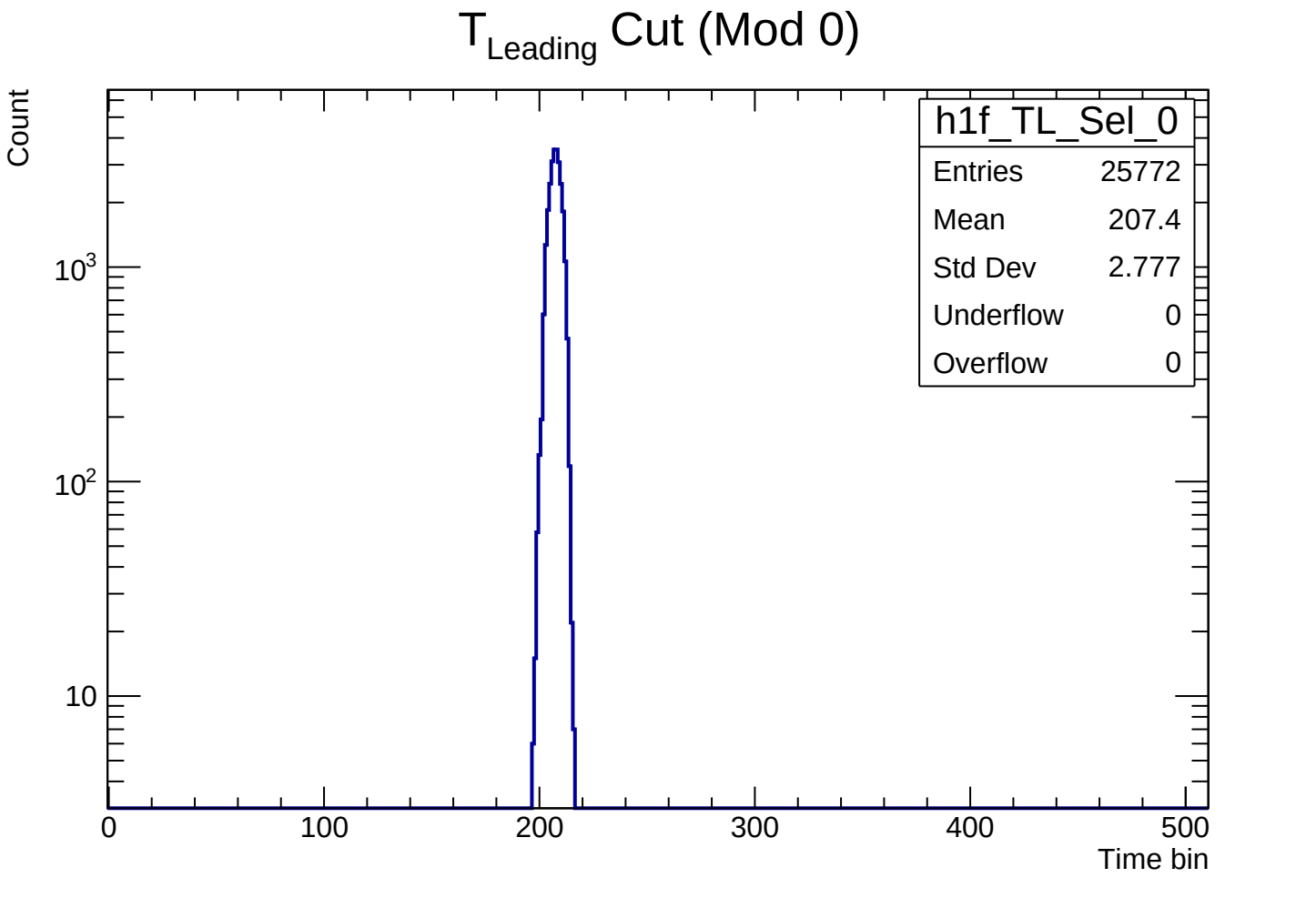
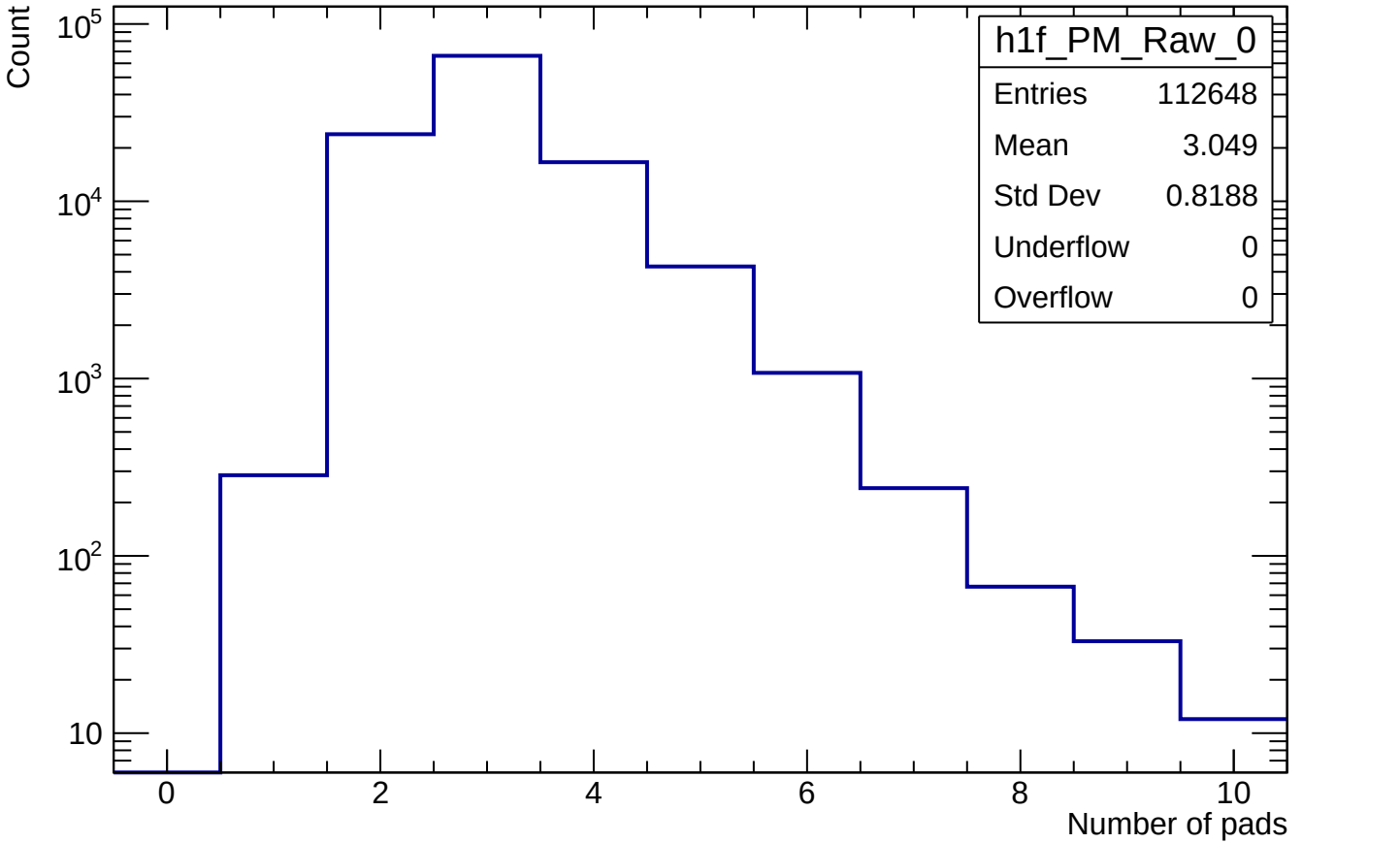
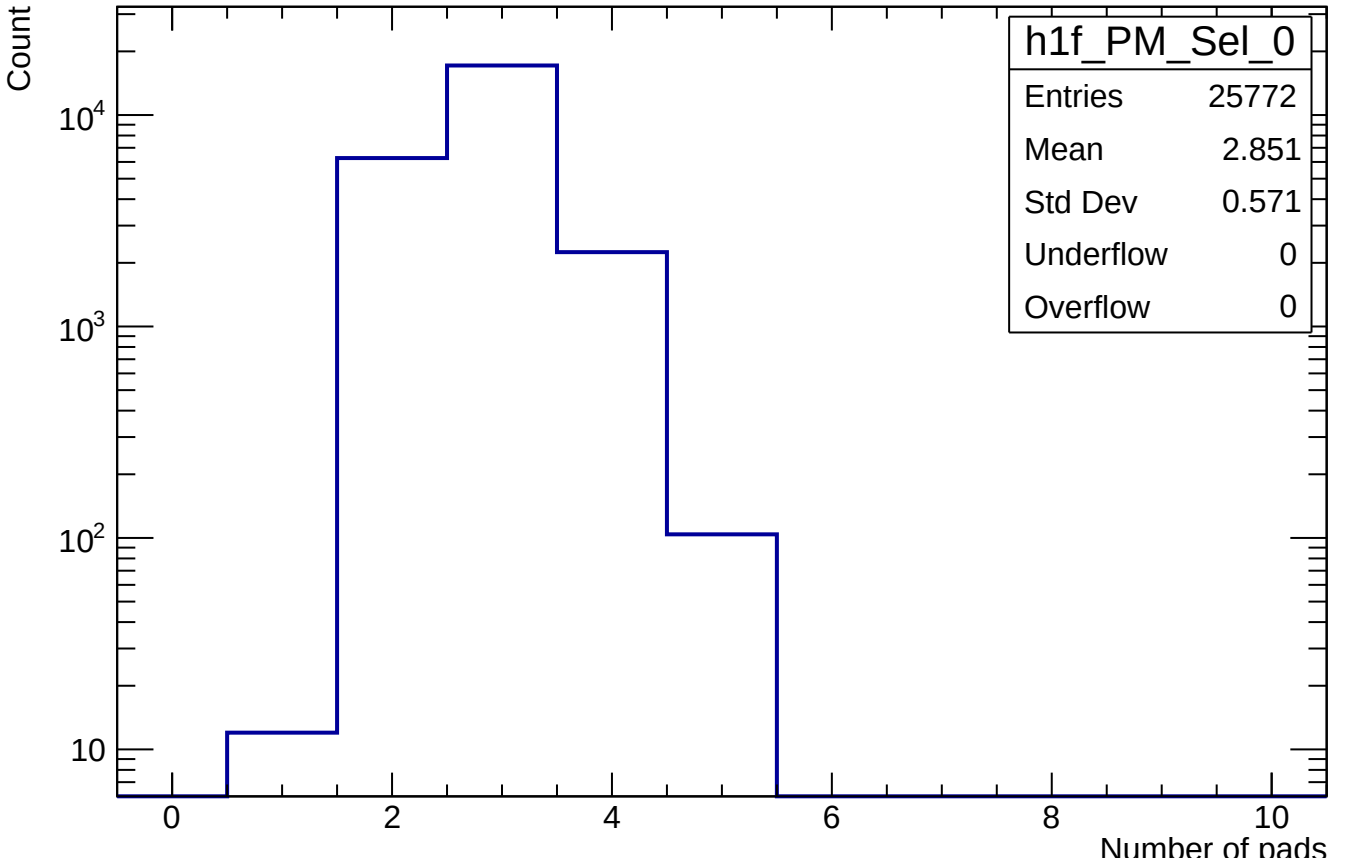
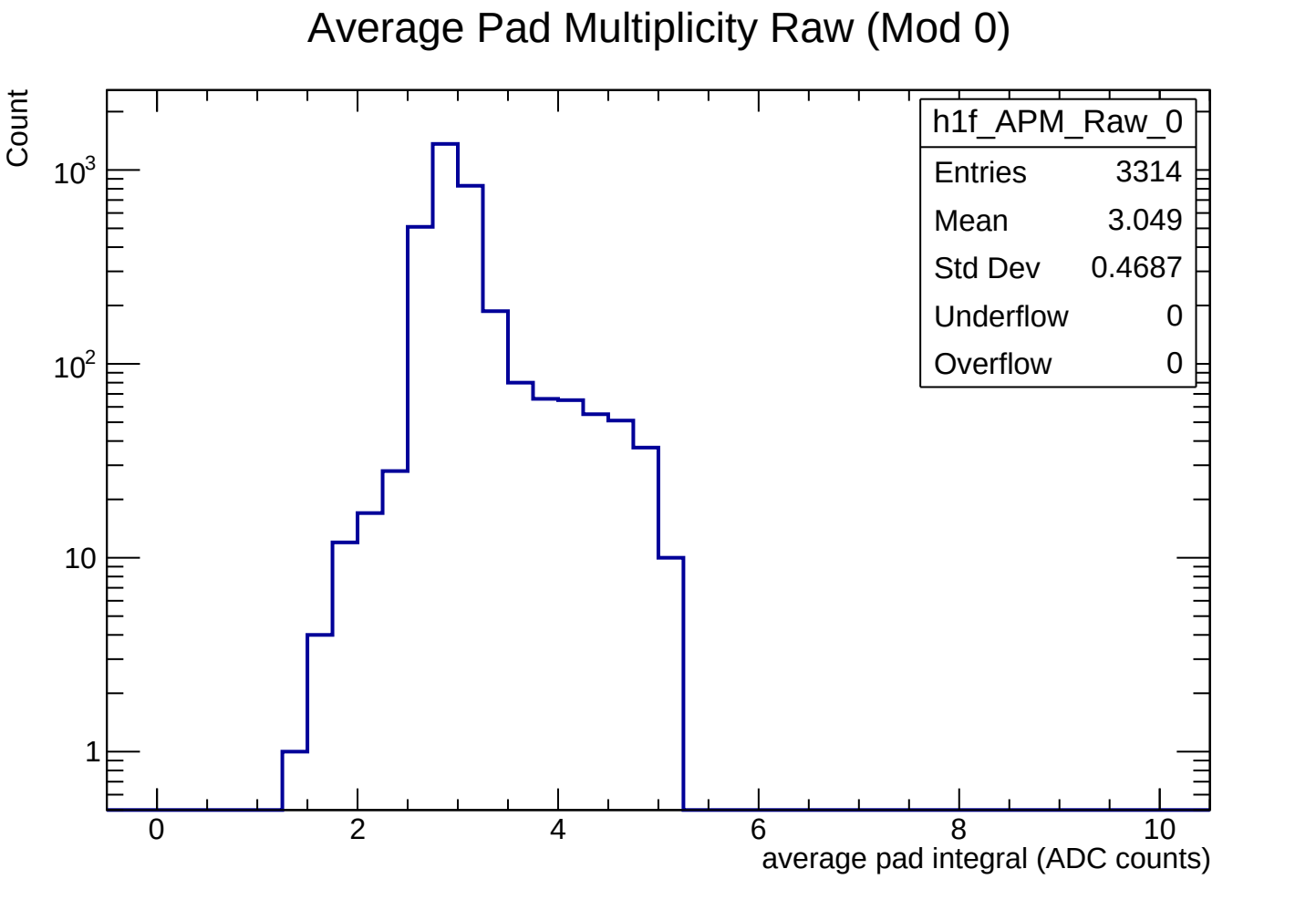
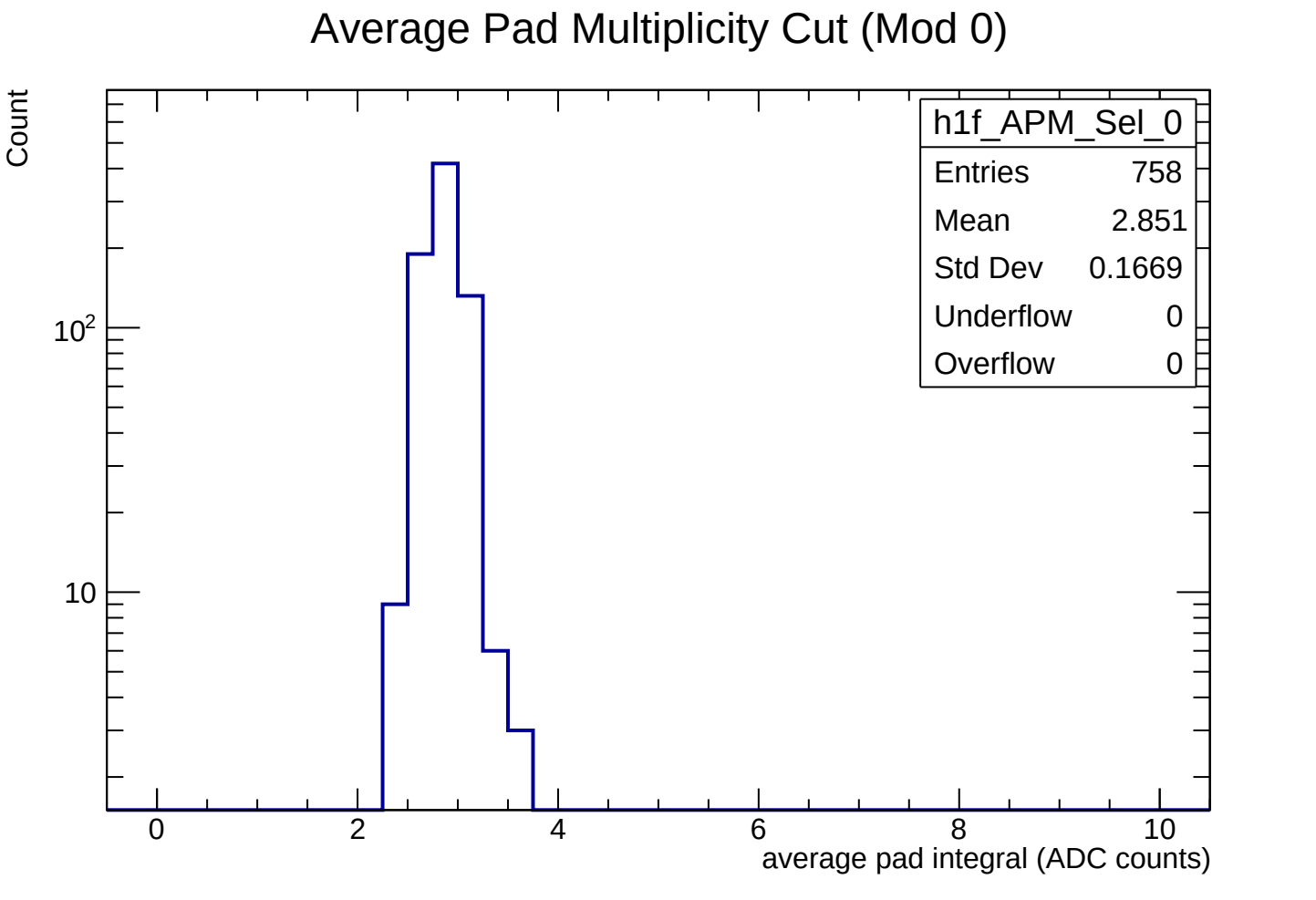

T Leading Raw (Mod 0)
Count
h1f_TL_Raw_0
Entries 112634
Mean 208.3
Std Dev 17.51
Underflow 0
Overflow 0
Time bin

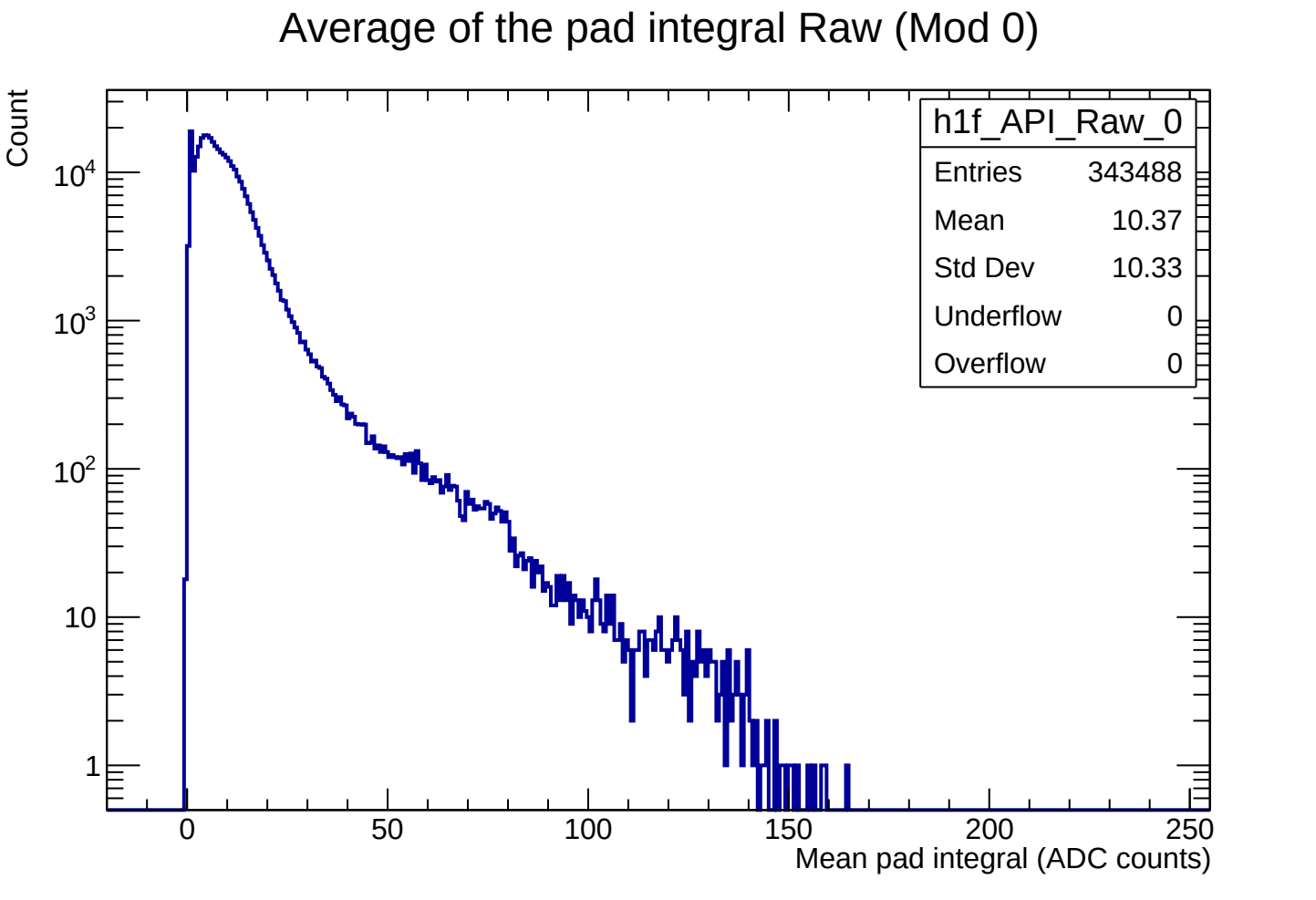

T Leading Cut (Mod 0)
Count
h1f_TL_Sel_0
Entries 25772
Mean 207.4
Std Dev 2.777
Underflow 0
Overflow 0
10^3
10^2
10
0
100
200
300
400
500
Time bin

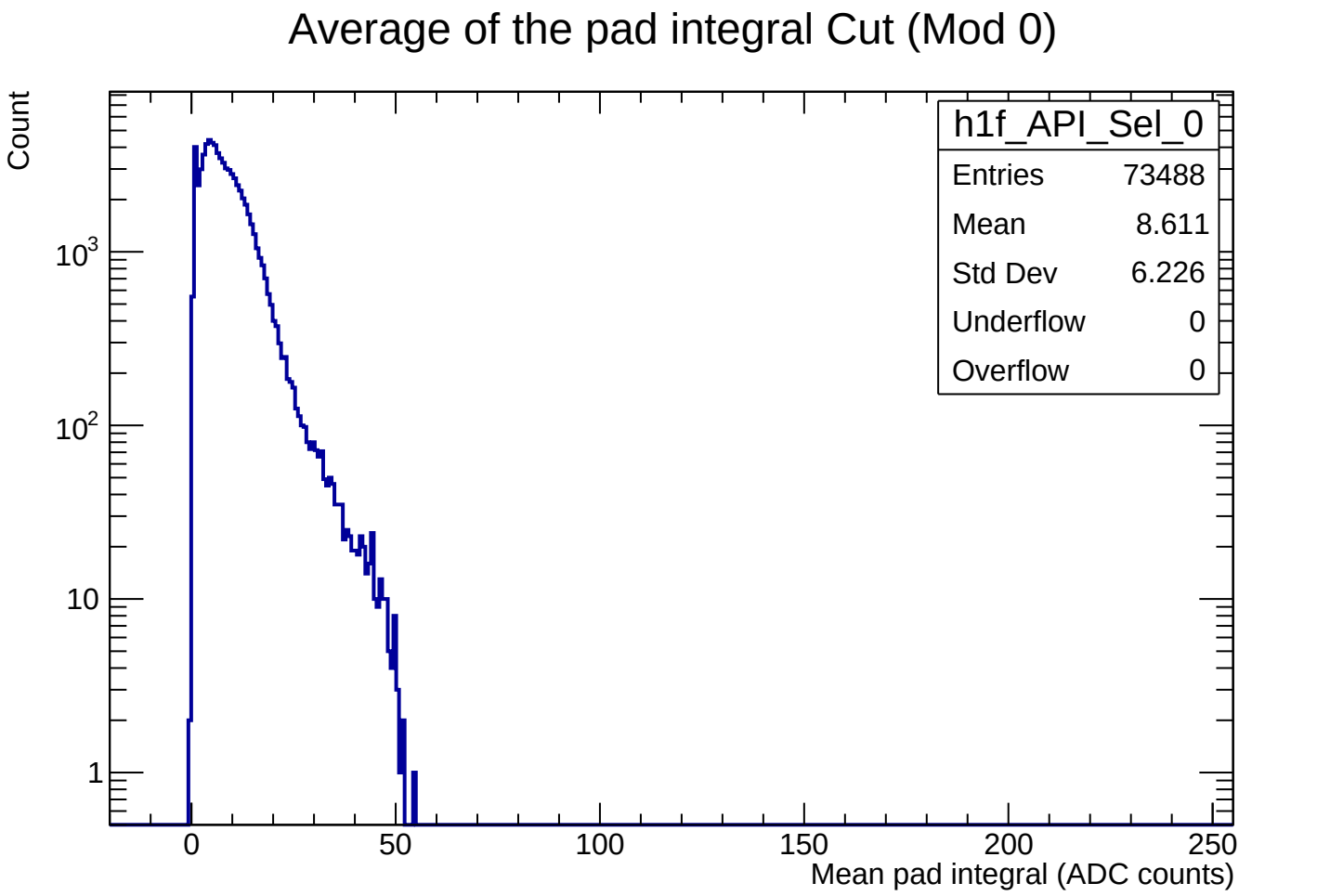

Pad Multiplicity Raw (Mod 0)
Count
$10^5$
$10^4$
$10^3$
$10^2$
10
0
2
4
6
8
10
Number of pads
h1f_PM_Raw_0
Entries 112648
Mean 3.049
Std Dev 0.8188
Underflow 0
Overflow 0

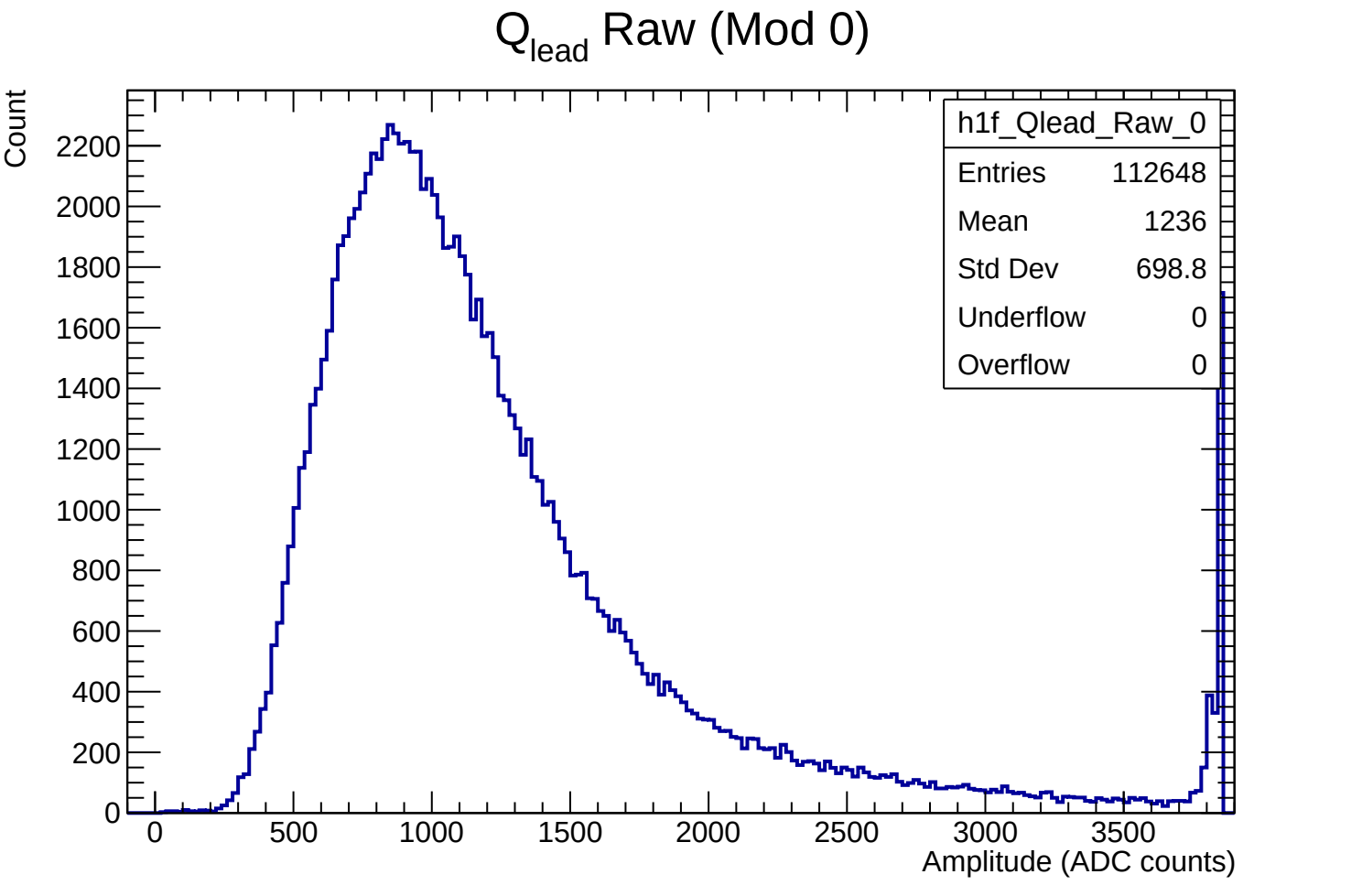

Pad Multiplicity Cut (Mod 0)
Count
$10^4$
$10^3$
$10^2$
10
0
2
4
6
8
10
Number of pads
h1f_PM_Sel_0
Entries 25772
Mean 2.851
Std Dev 0.571
Underflow 0
Overflow 0

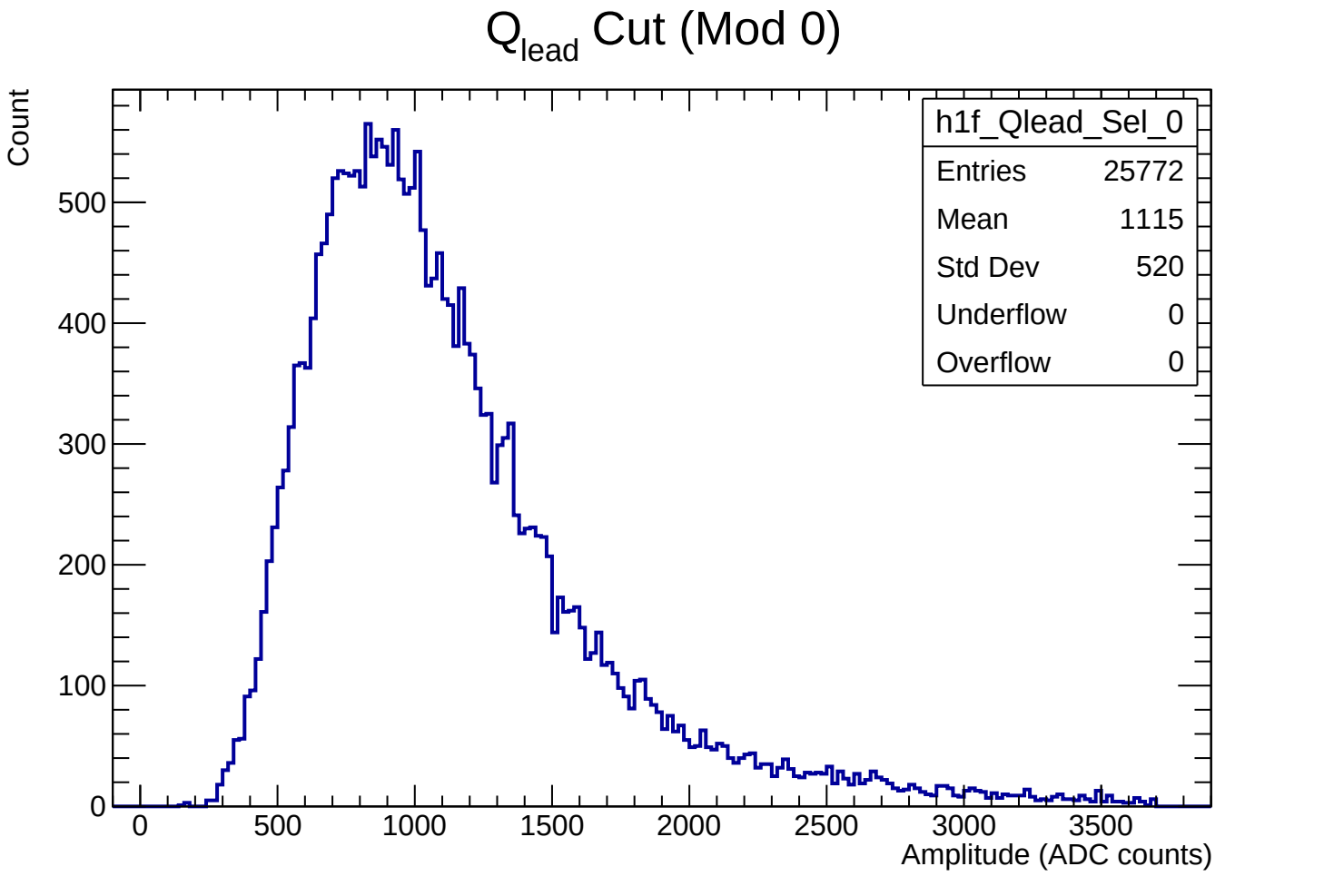

Average Pad Multiplicity Raw (Mod 0)
Count
$10^3$
$10^2$
10
1
0
2
4
6
8
10
average pad integral (ADC counts)
h1f_APM_Raw_0
Entries 3314
Mean 3.049
Std Dev 0.4687
Underflow 0
Overflow 0

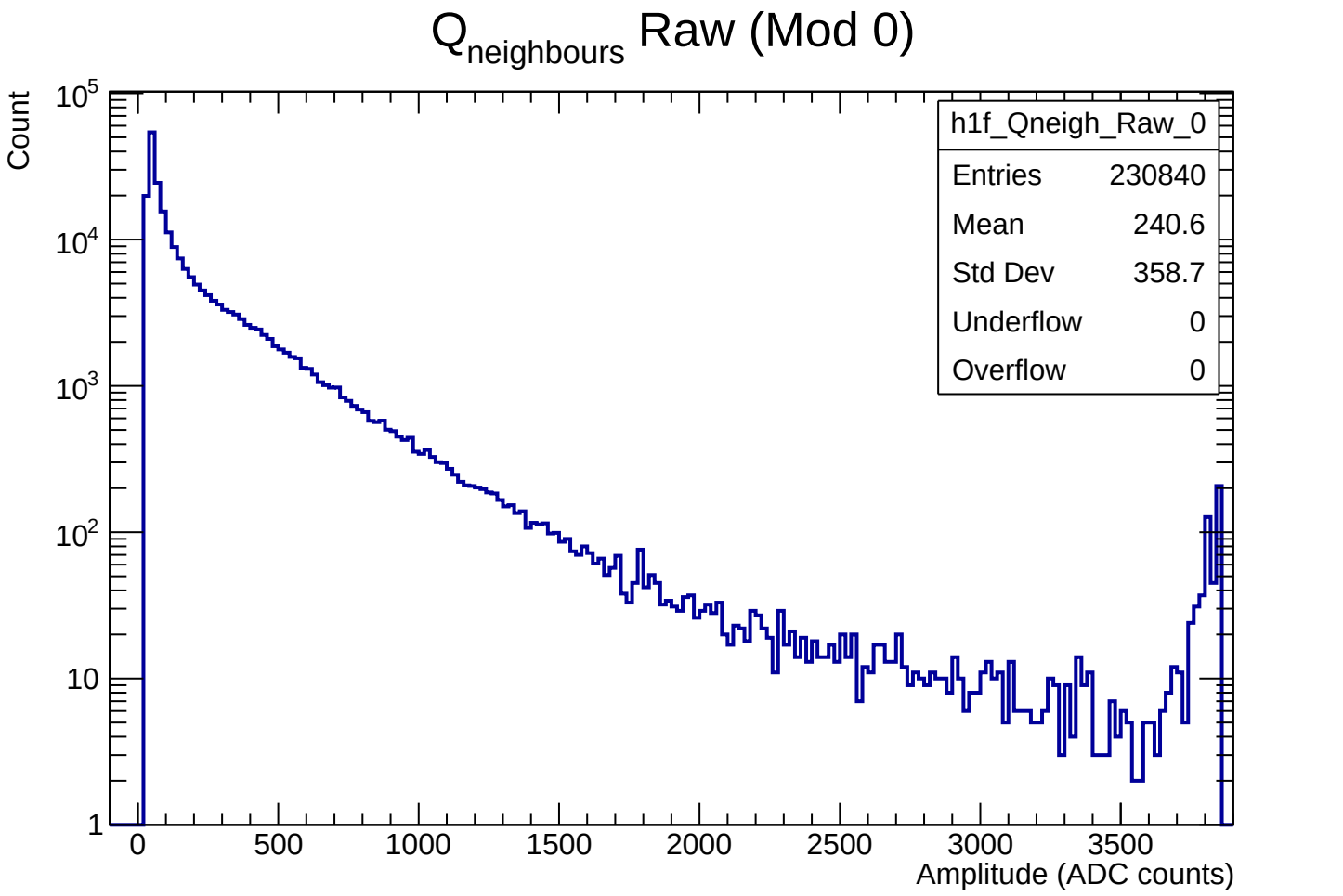

Average Pad Multiplicity Cut (Mod 0)
Count
$10^2$
10
h1f_APM_Sel_0
Entries 758
Mean 2.851
Std Dev 0.1669
Underflow 0
Overflow 0
0
2
4
6
8
10
average pad integral (ADC counts)

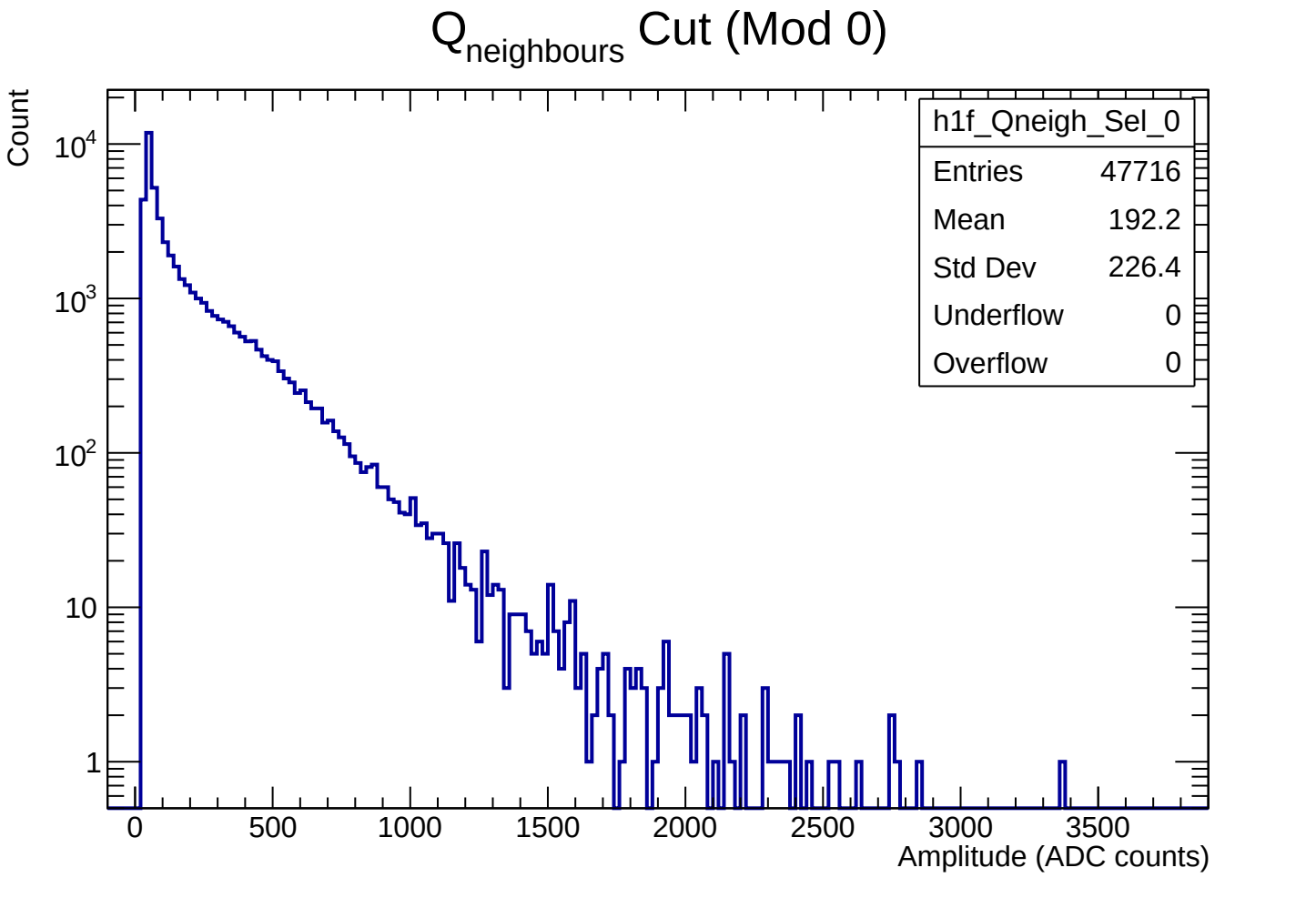

Average of the pad integral Raw (Mod 0)
Count
$10^4$
$10^3$
$10^2$
10
1
0
50
100
150
200
250
Mean pad integral (ADC counts)
h1f_API_Raw_0
Entries 343488
Mean 10.37
Std Dev 10.33
Underflow 0
Overflow 0

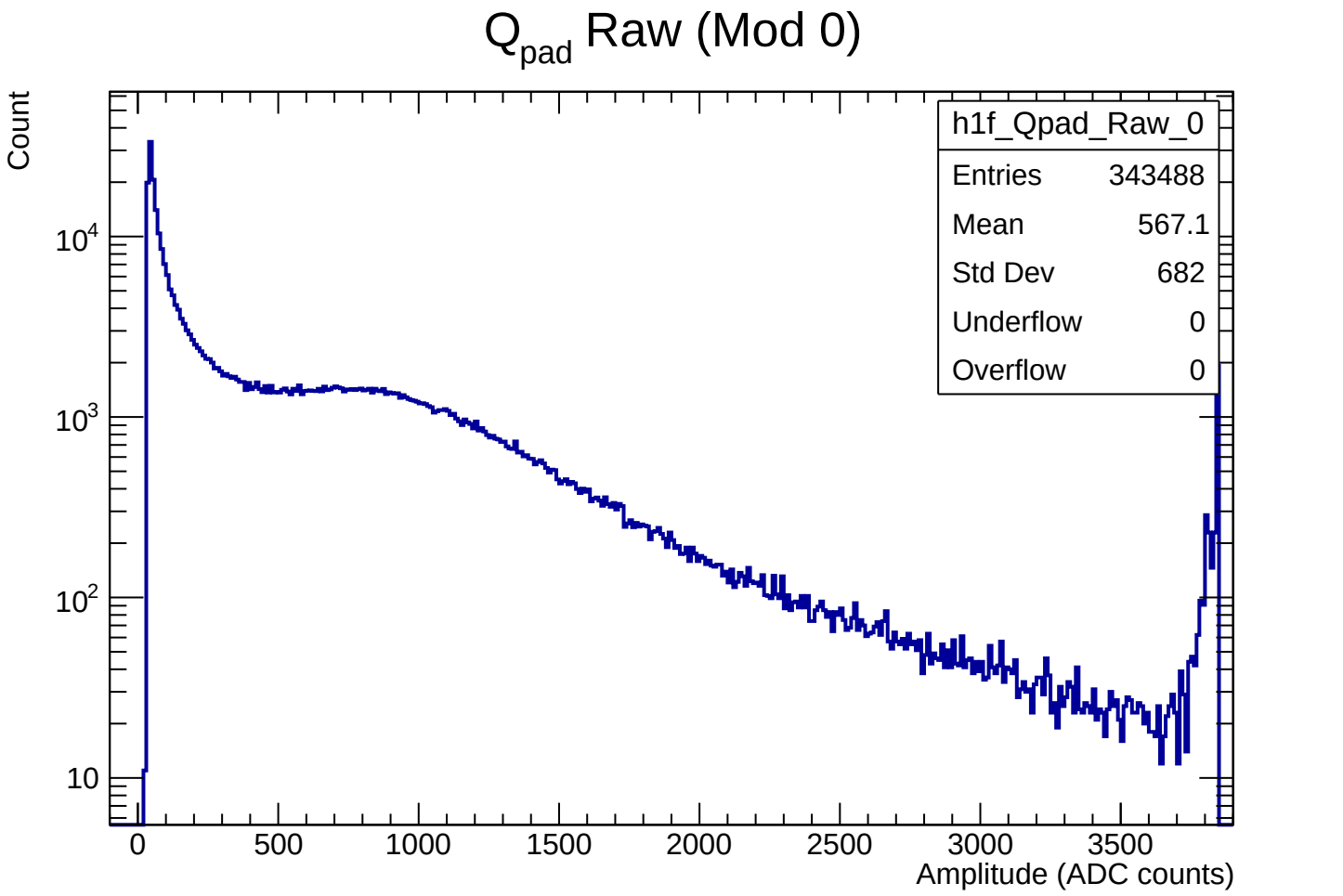

Average of the pad integral Cut (Mod 0)
Count
h1f_API_Sel_0
Entries 73488
Mean 8.611
Std Dev 6.226
Underflow 0
Overflow 0
$10^3$
$10^2$
10
1
0
50
100
150
200
250
Mean pad integral (ADC counts)

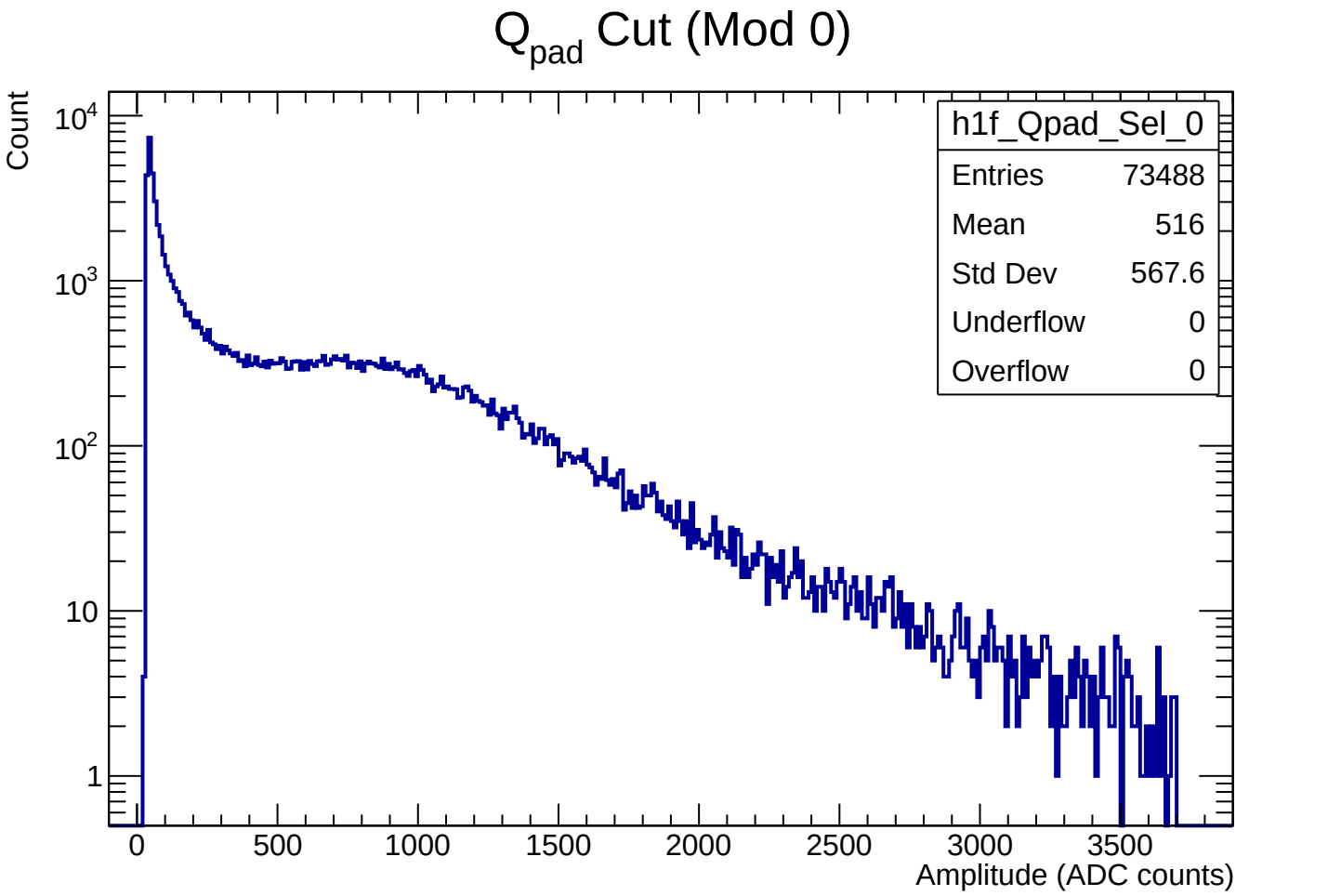

$Q_{lead}$ Raw (Mod 0)
Count
Amplitude (ADC counts)
h1f_Qlead_Raw_0
Entries 112648
Mean 1236
Std Dev 698.8
Underflow 0
Overflow 0
0
200
400
600
800
1000
1200
1400
1600
1800
2000
2200
0
500
1000
1500
2000
2500
3000
3500

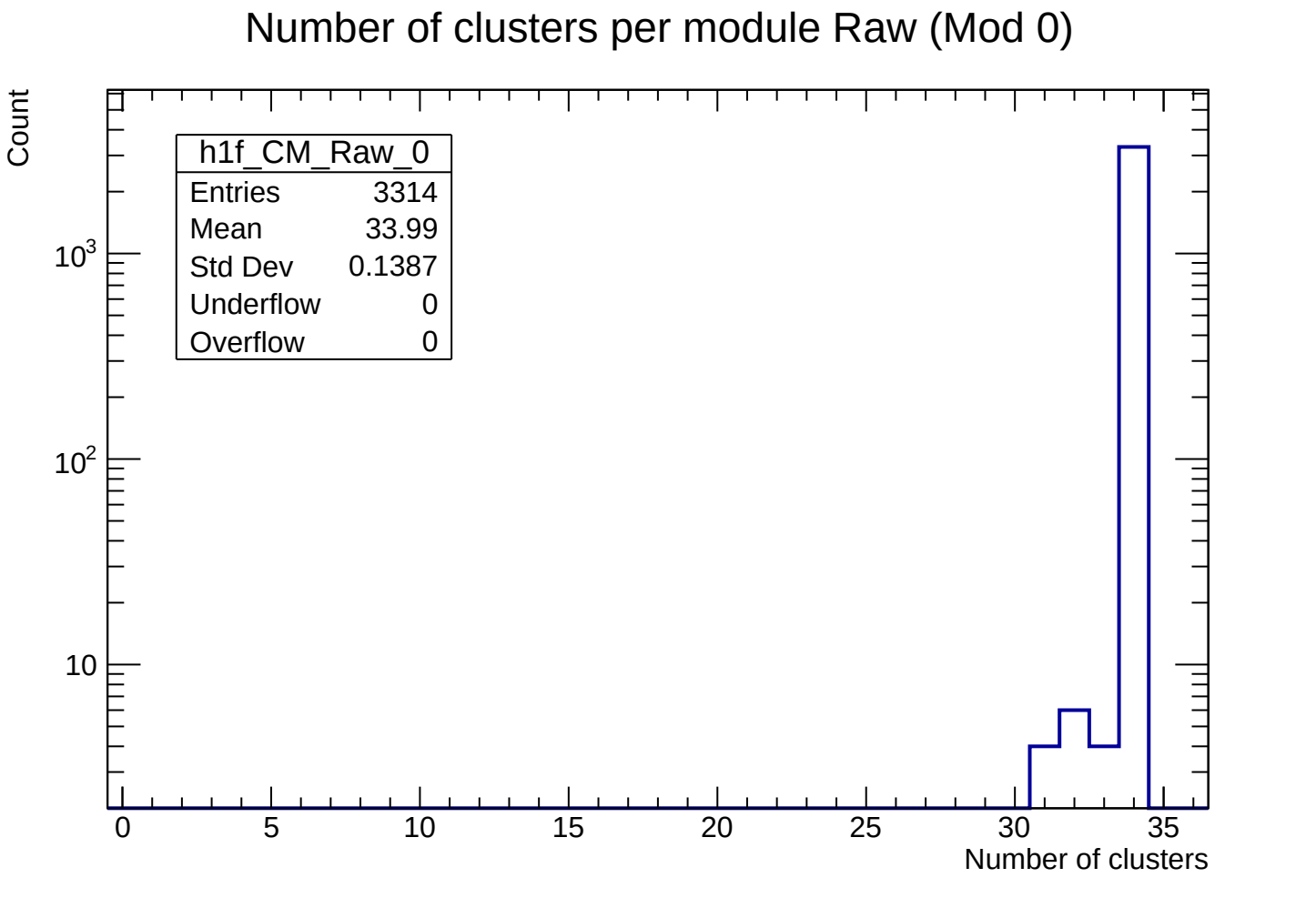

$Q_{lead}$ Cut (Mod 0)
Count
h1f_Qlead_Sel_0
Entries 25772
Mean 1115
Std Dev 520
Underflow 0
Overflow 0
0
100
200
300
400
500
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)

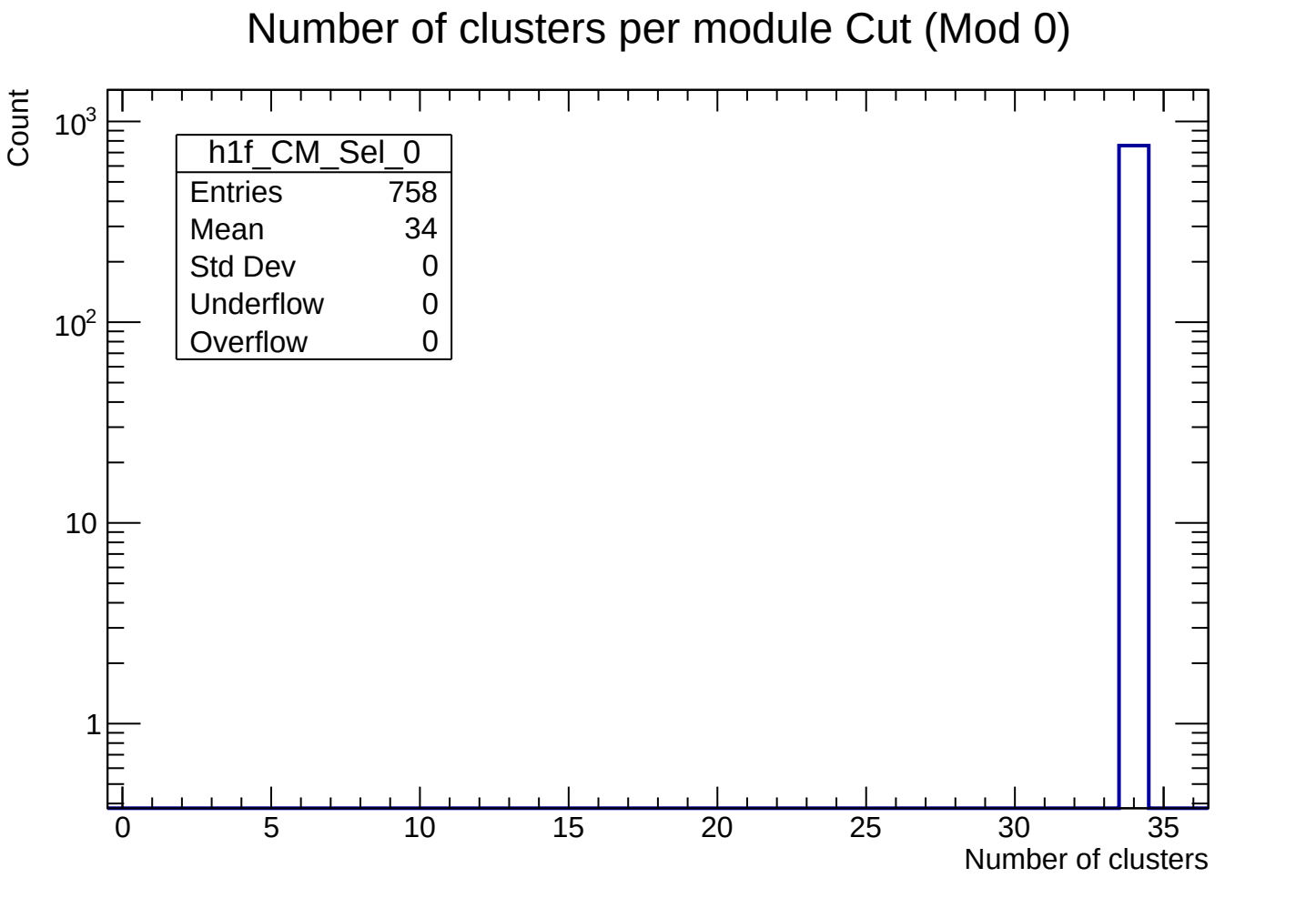

$Q_{neighbours}$ Raw (Mod 0)
Count
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qneigh_Raw_0
Entries 230840
Mean 240.6
Std Dev 358.7
Underflow 0
Overflow 0

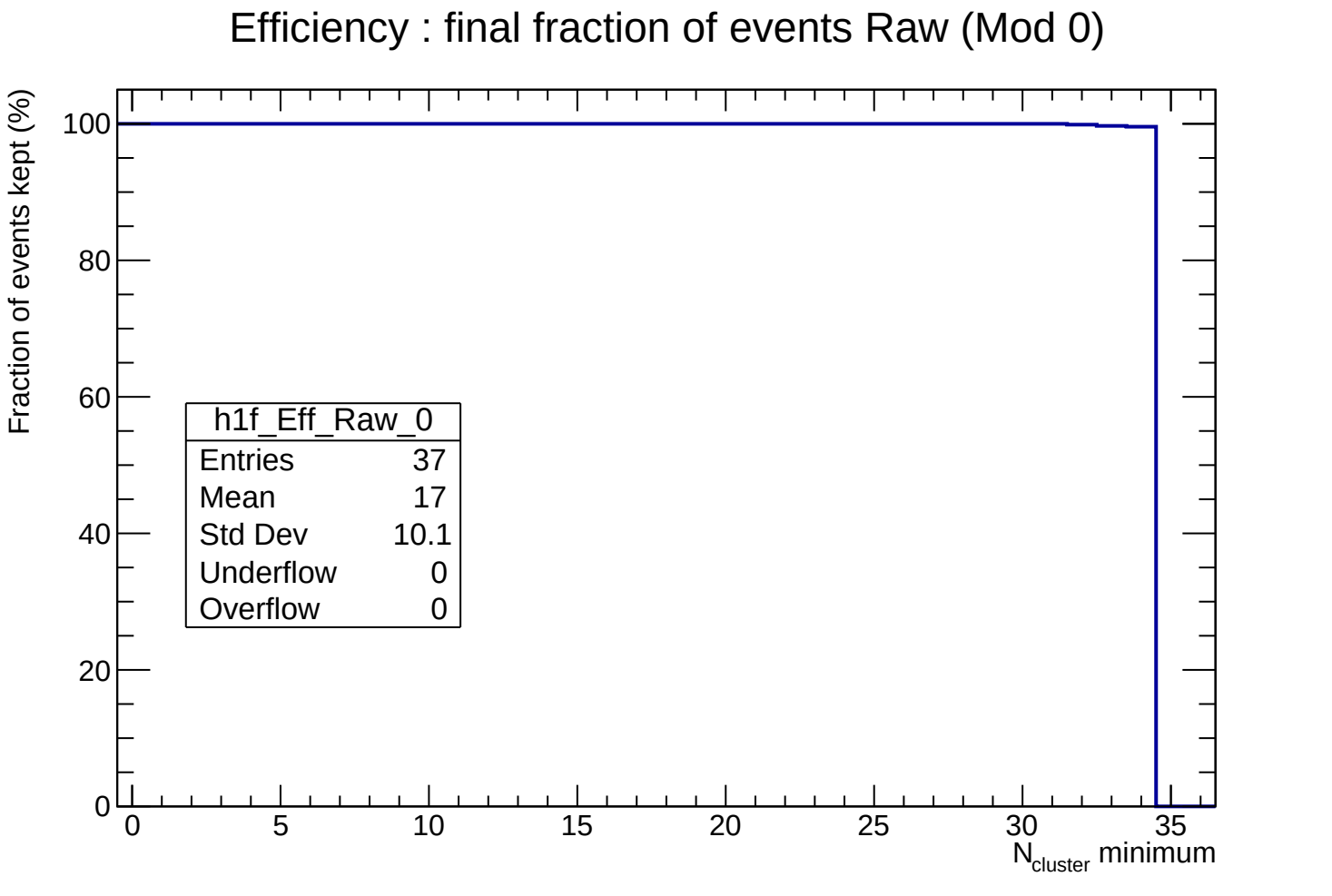

$Q_{neighbours}$ Cut (Mod 0)
Count
$10^4$
$10^3$
$10^2$
10
1
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qneigh_Sel_0
Entries 47716
Mean 192.2
Std Dev 226.4
Underflow 0
Overflow 0

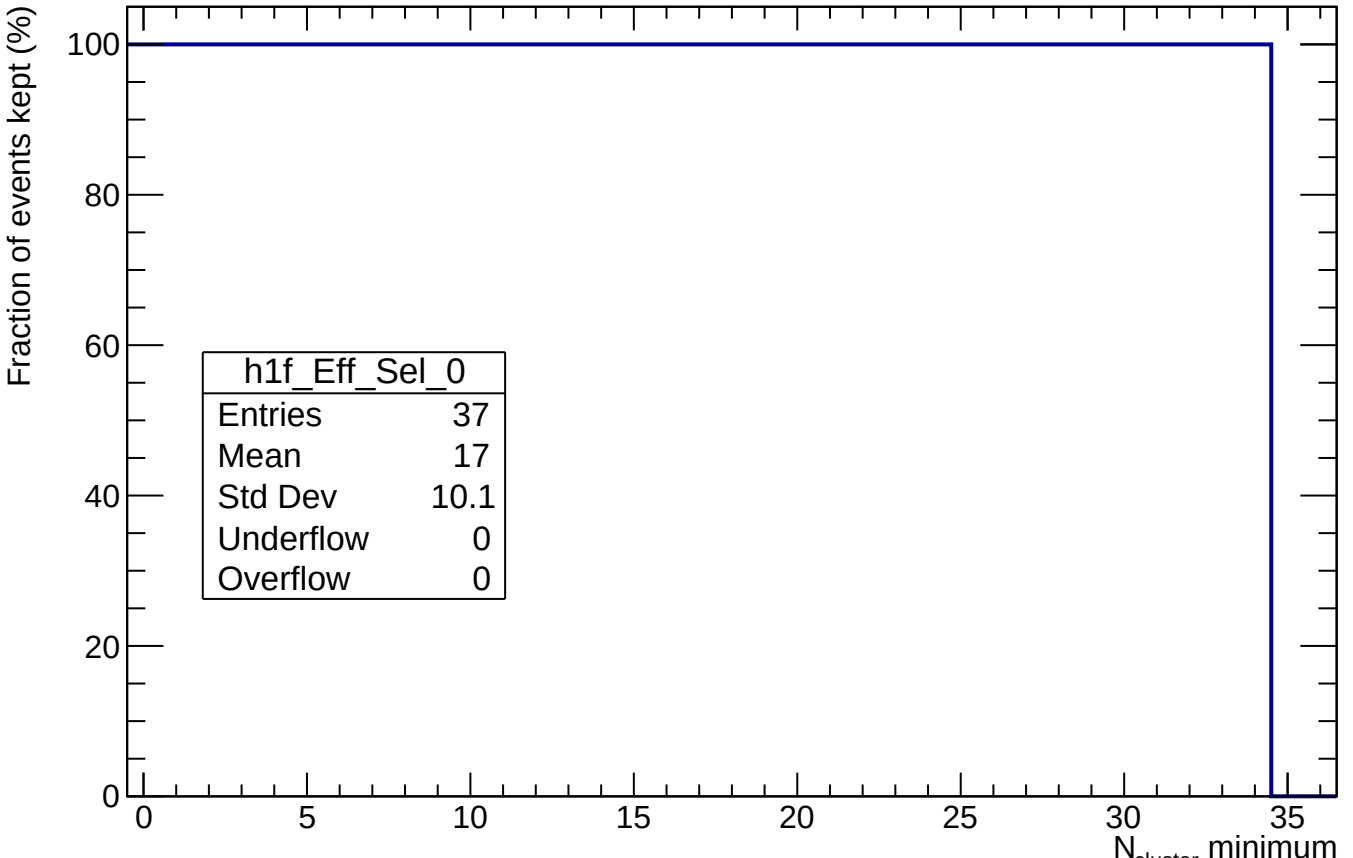

$Q_{pad}$ Raw (Mod 0)
Count
$10^4$
$10^3$
$10^2$
10
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qpad_Raw_0
Entries 343488
Mean 567.1
Std Dev 682
Underflow 0
Overflow 0

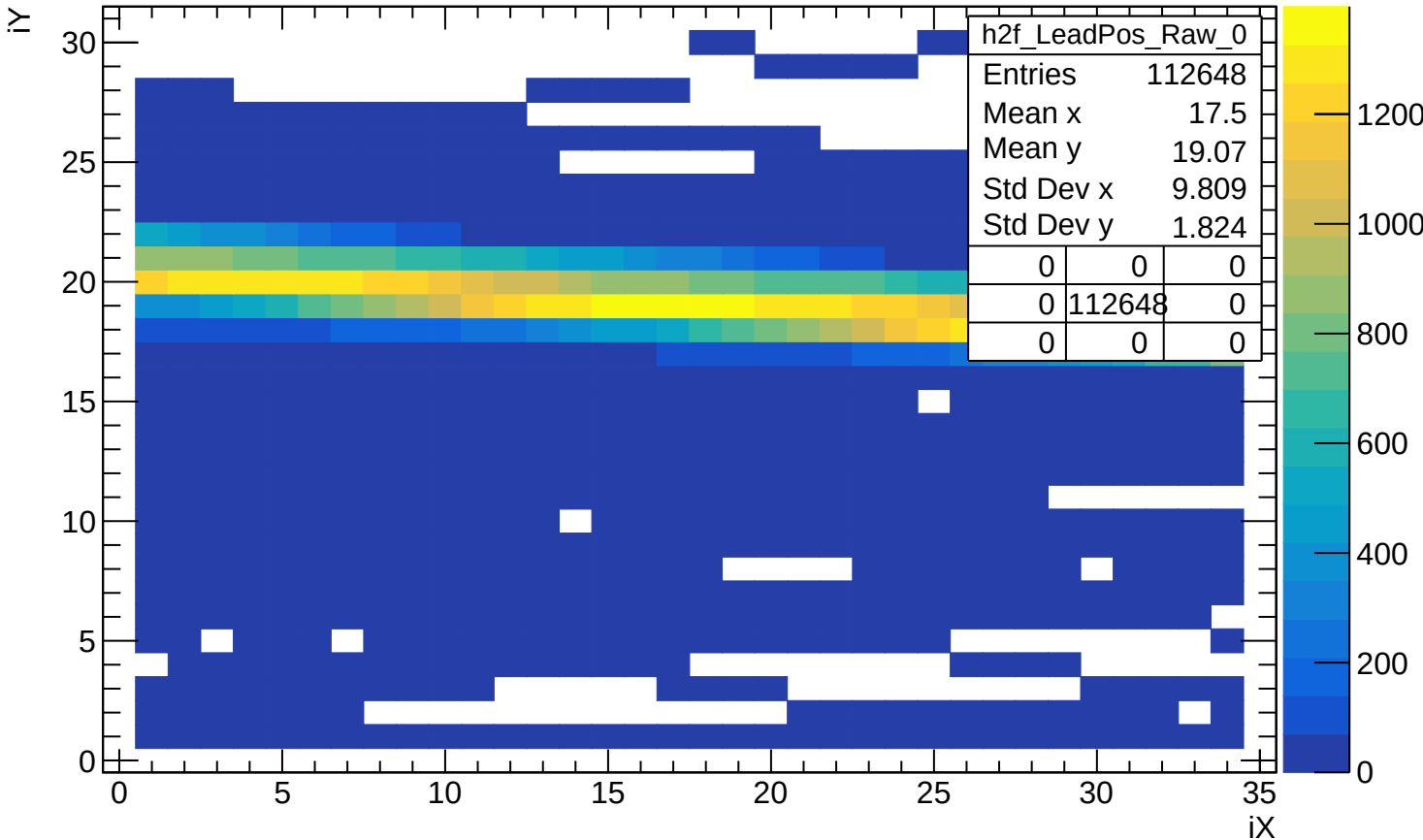

$Q_{pad}$ Cut (Mod 0)
Count
$10^4$
$10^3$
$10^2$
10
1
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qpad_Sel_0
Entries 73488
Mean 516
Std Dev 567.6
Underflow 0
Overflow 0

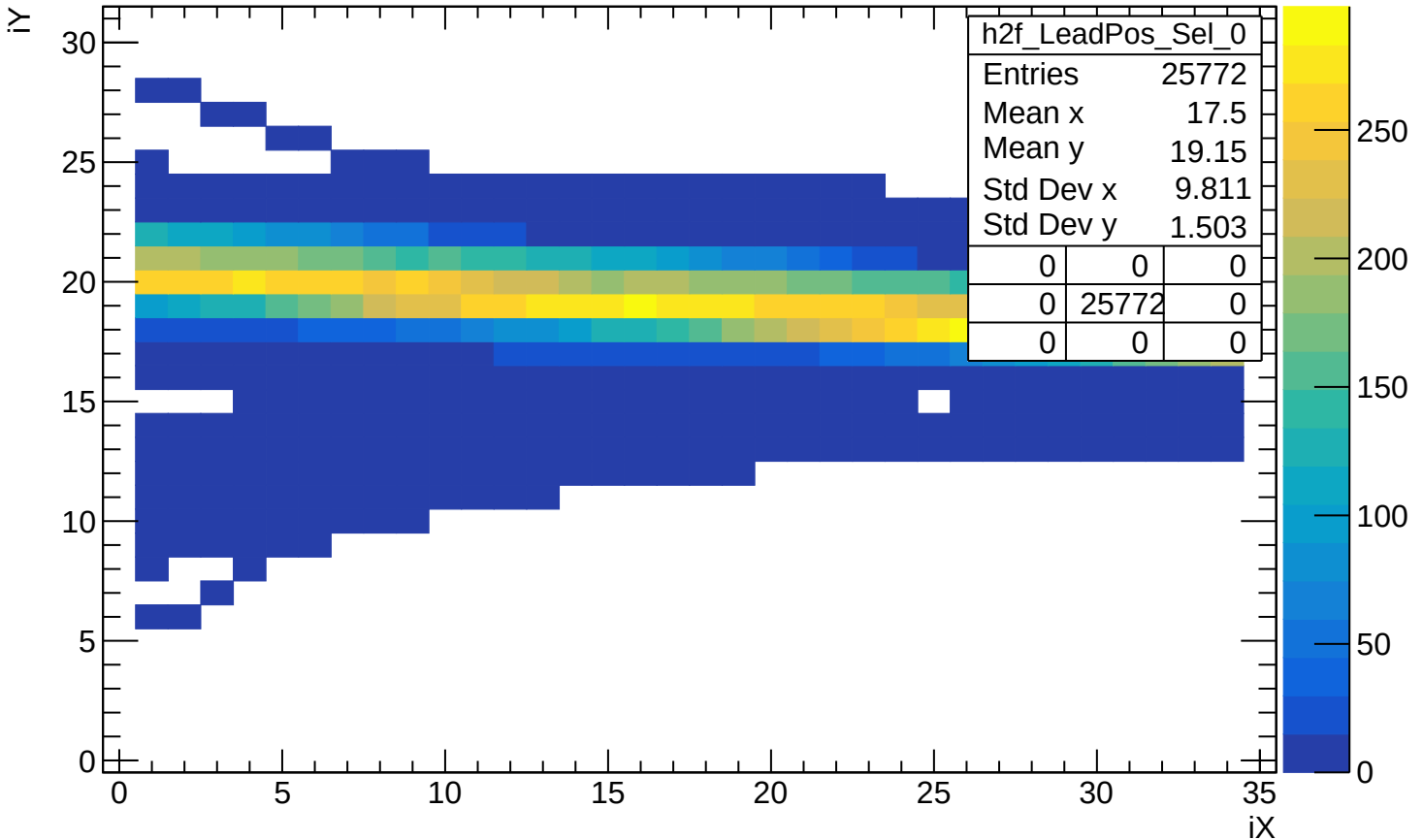

Number of clusters per module Raw (Mod 0)
Count
h1f_CM_Raw_0
Entries 3314
Mean 33.99
Std Dev 0.1387
Underflow 0
Overflow 0
$10^3$
$10^2$
10
0
5
10
15
20
25
30
35
Number of clusters

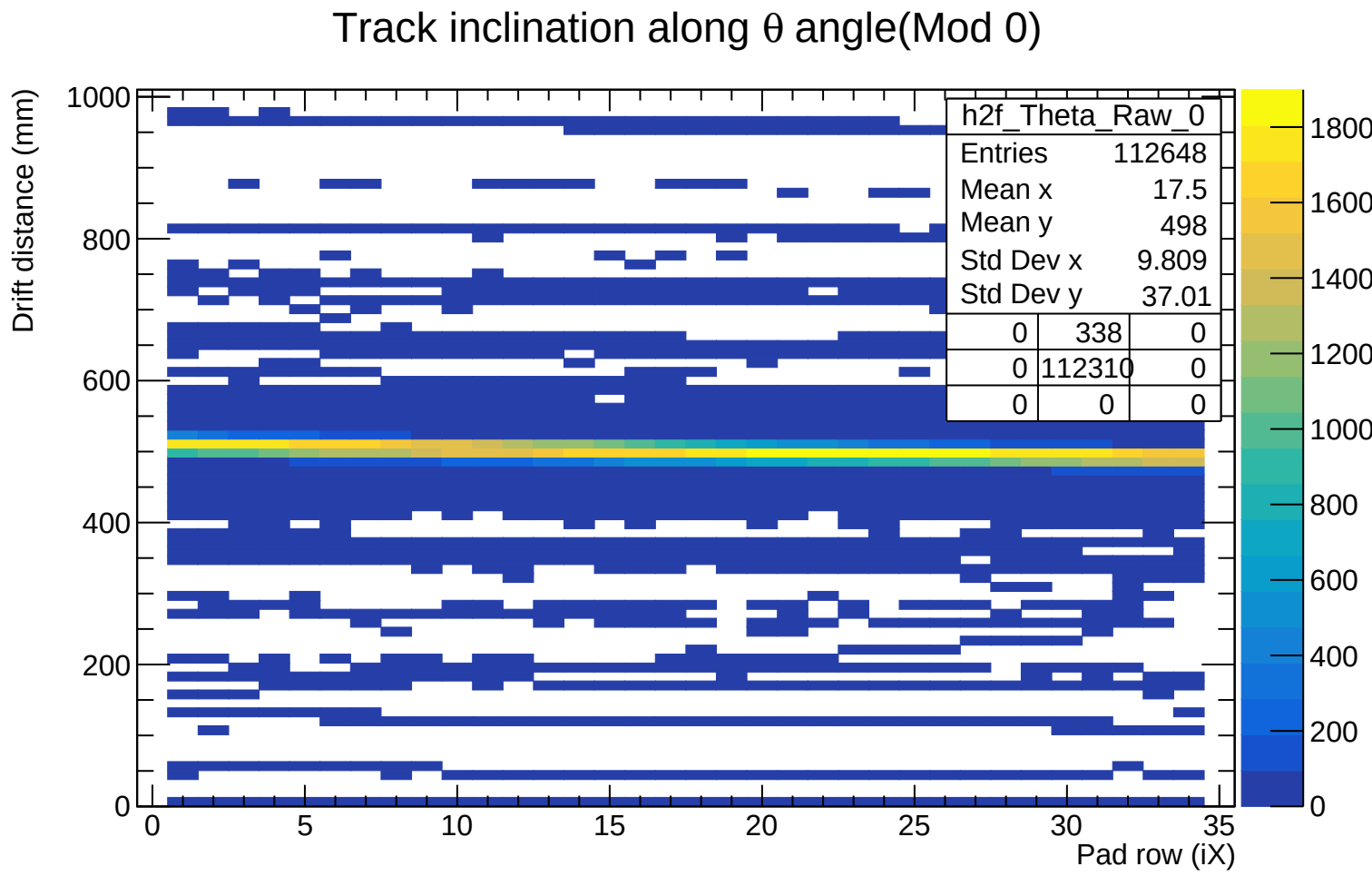

Number of clusters per module Cut (Mod 0)
Count
h1f_CM_Sel_0
Entries 758
Mean 34
Std Dev 0
Underflow 0
Overflow 0
$10^3$
$10^2$
10
1
0
5
10
15
20
25
30
35
Number of clusters

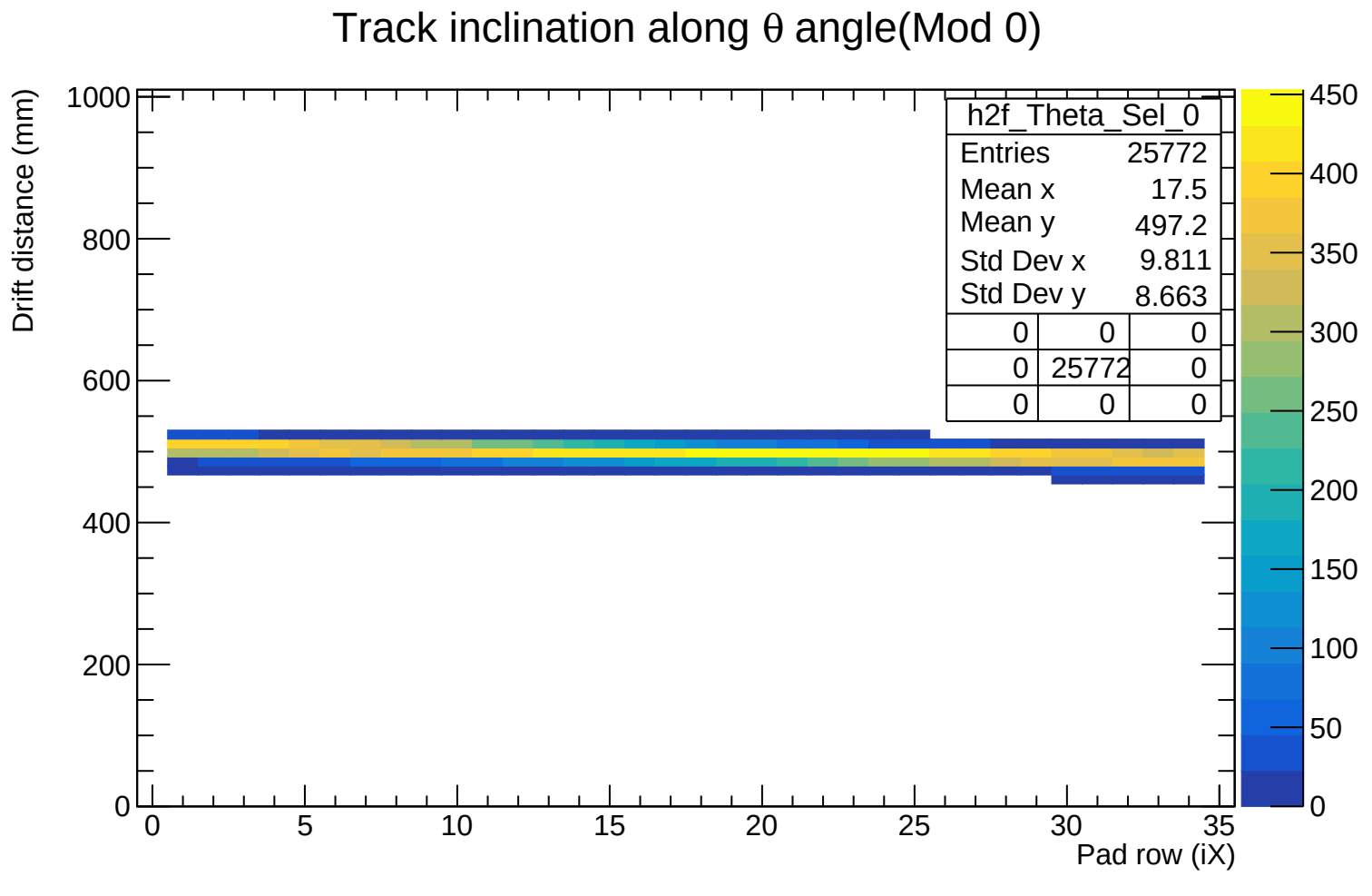

Efficiency : final fraction of events Raw (Mod 0)
Fraction of events kept (%)
100
80
60
40
20
0
0
5
10
15
20
25
30
35
N cluster minimum
h1f_Eff_Raw_0
Entries 37
Mean 17
Std Dev 10.1
Underflow 0
Overflow 0


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 112648
Mean x 17.5
Mean y 19.07
Std Dev x 9.809
Std Dev y 1.824
0 0 0
0 112648 0
0 0 0
0
5
10
15
20
25
30
35
200
400
600
800
1000
1200


Position of leading pads in ERAM (Mod 0)
iY
iX
h2f_LeadPos_Sel_0
Entries 25772
Mean x 17.5
Mean y 19.15
Std Dev x 9.811
Std Dev y 1.503
0 0 0
0 25772 0
0 0 0
0 5 10 15 20 25 30 35
0 5 10 15 20 25 30
0 50 100 150 200 250


Track inclination along θ angle(Mod 0)
h2f_Theta_Raw_0
Entries 112648
Mean x 17.5
Mean y 498
Std Dev x 9.809
Std Dev y 37.01
0 338 0
0 112310 0
0 0 0
Drift distance (mm)
Pad row (iX)
0
200
400
600
800
1000
0
5
10
15
20
25
30
35
1800
1600
1400
1200
1000
800
600
400
200
0


Track inclination along θ angle(Mod 0)
h2f_Theta_Sel_0
Entries 25772
Mean x 17.5
Mean y 497.2
Std Dev x 9.811
Std Dev y 8.663
0 0 0
0 25772 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
50
100
150
200
250
300
350
400
450