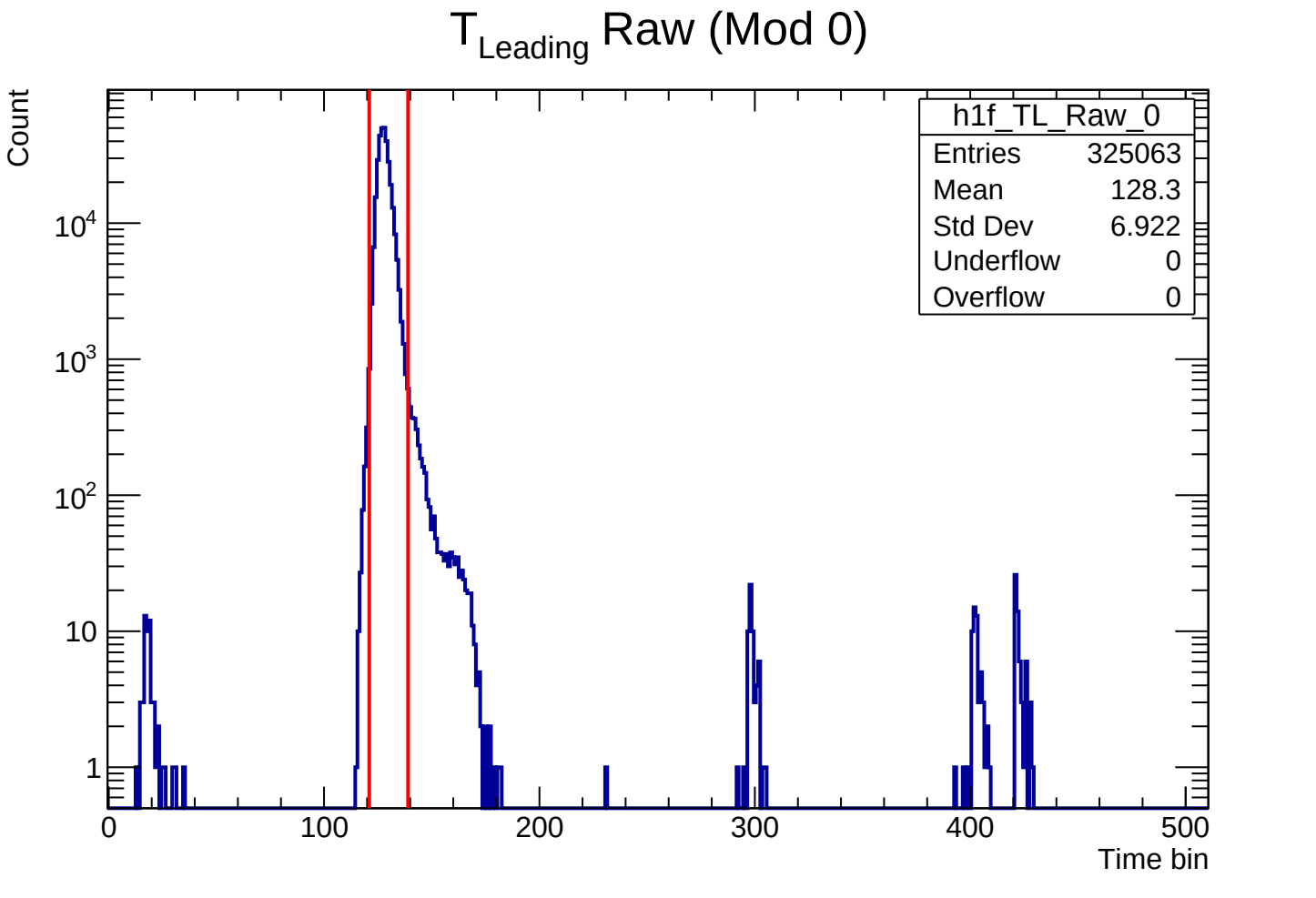
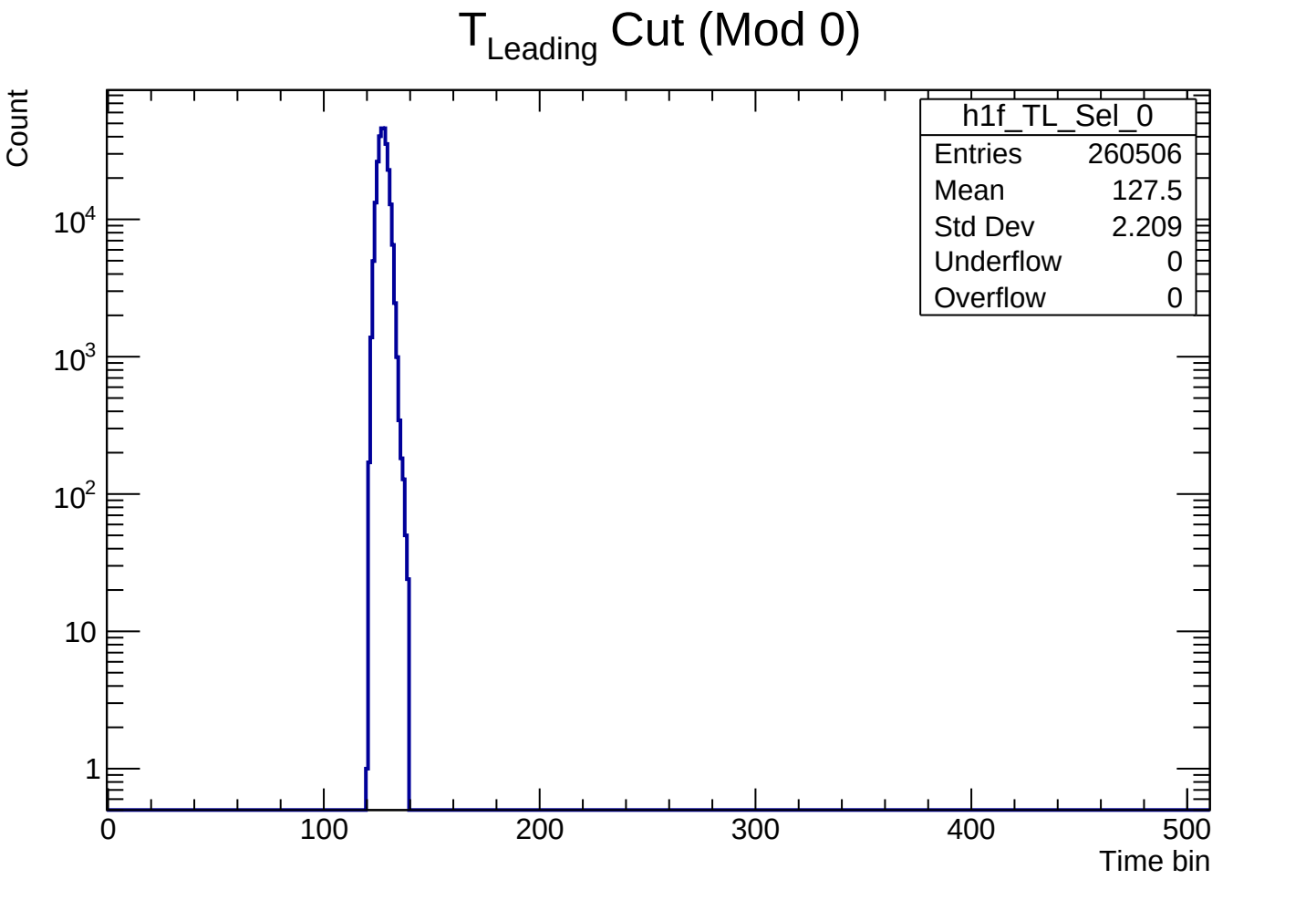
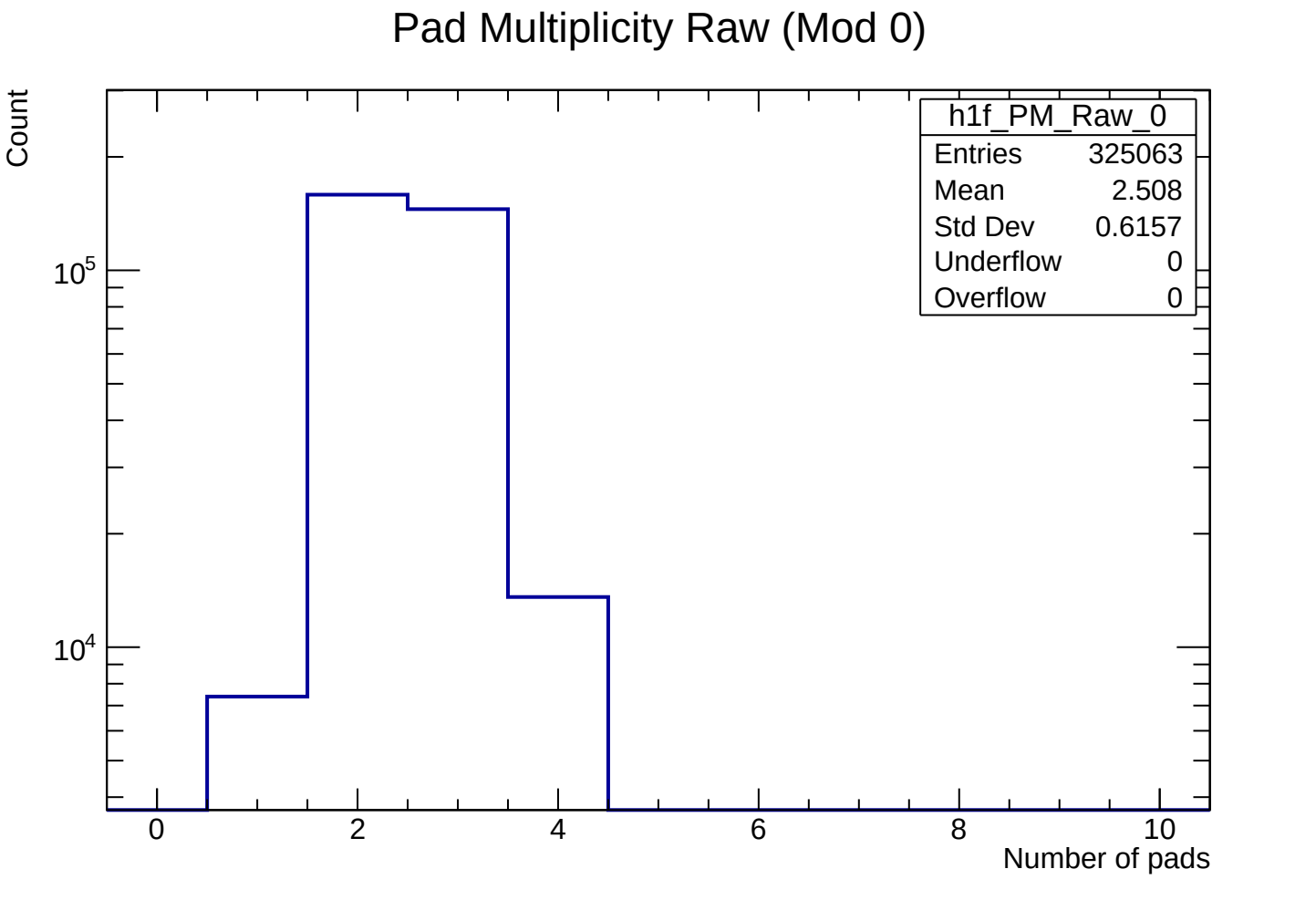
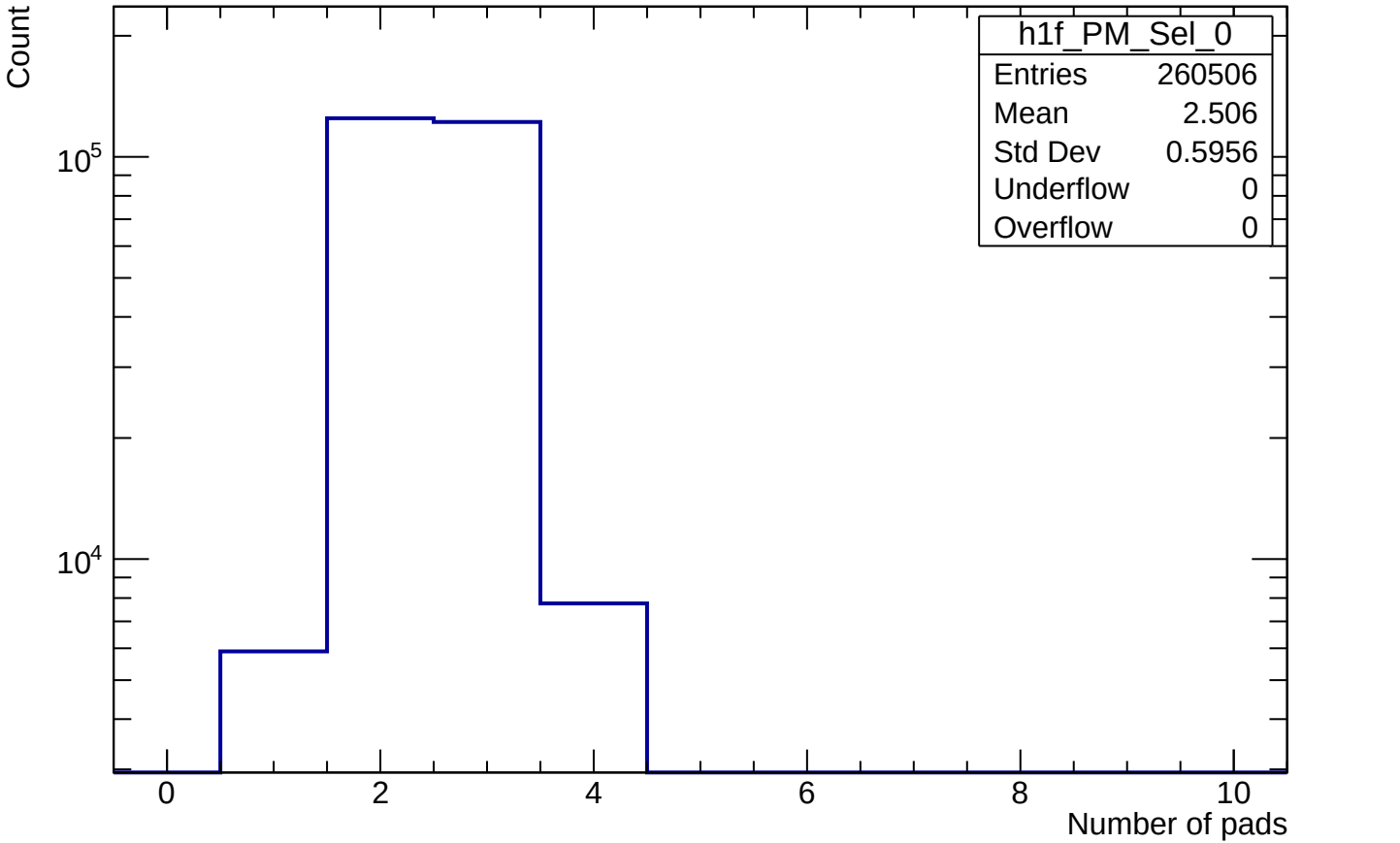
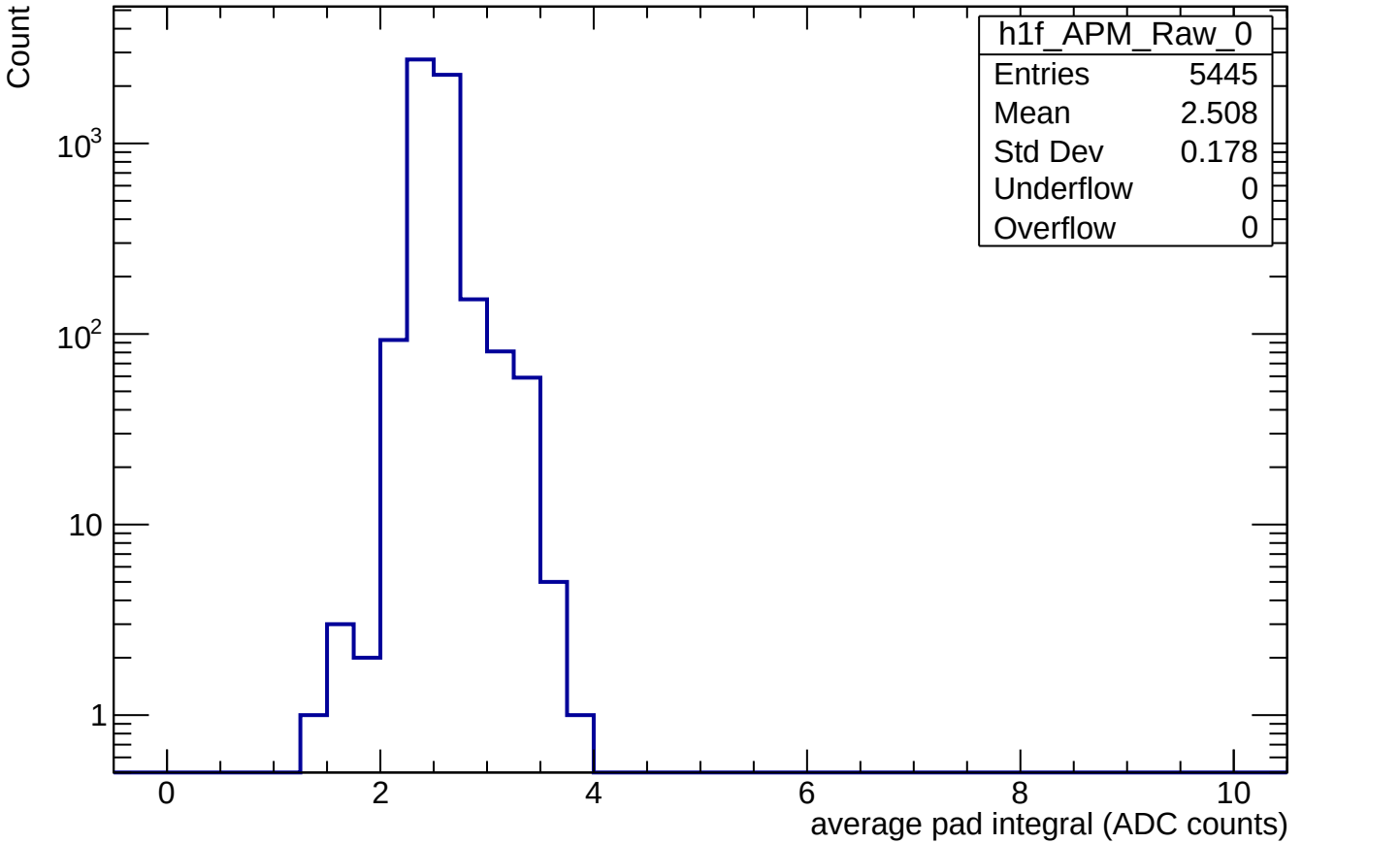
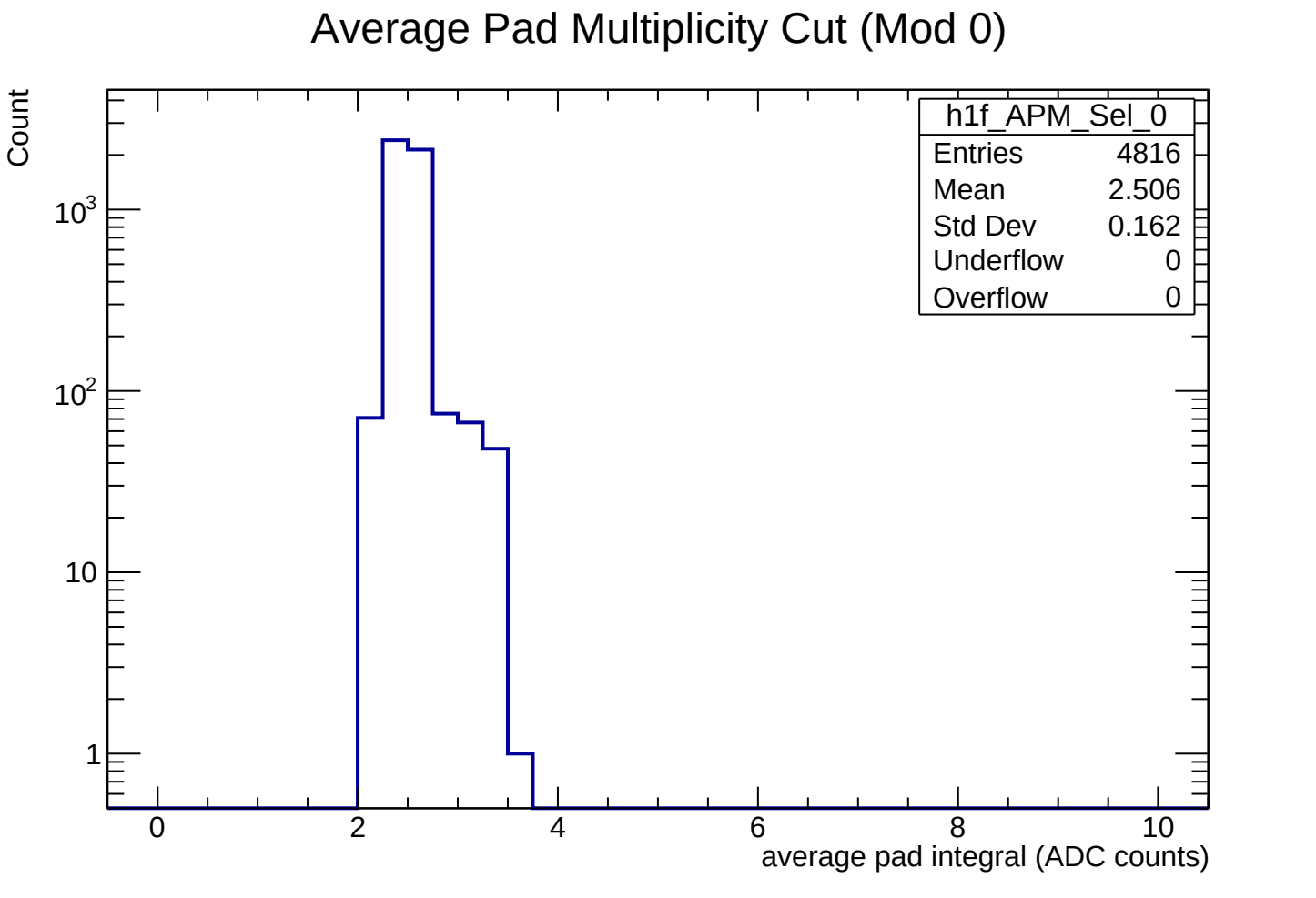

T Leading Raw (Mod 0)
Count
h1f_TL_Raw_0
Entries 325063
Mean 128.3
Std Dev 6.922
Underflow 0
Overflow 0
10^4
10^3
10^2
10
1
0
100
200
300
400
500
Time bin

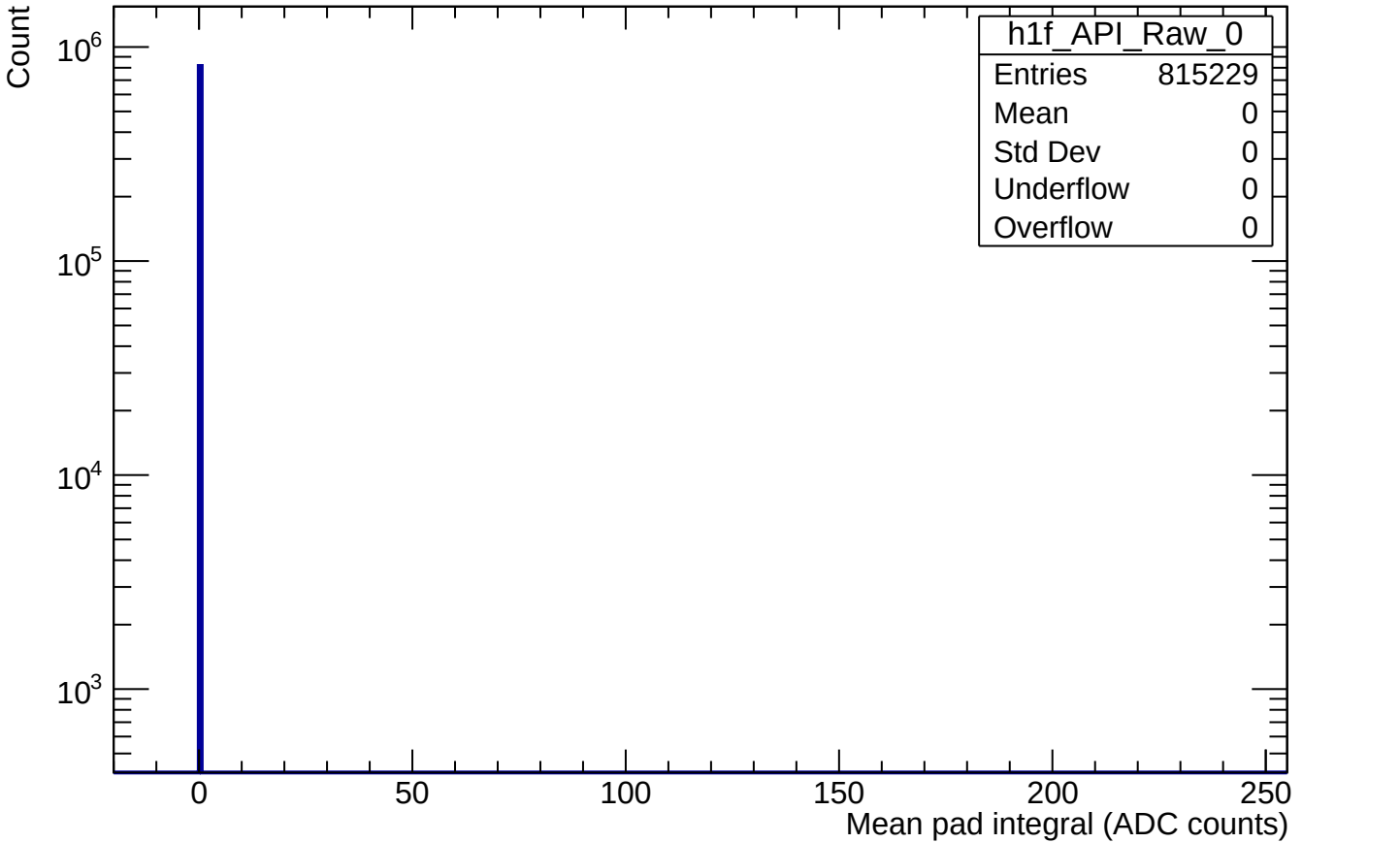

T Leading Cut (Mod 0)
Count
h1f_TL_Sel_0
Entries 260506
Mean 127.5
Std Dev 2.209
Underflow 0
Overflow 0
10^4
10^3
10^2
10
1
0
100
200
300
400
500
Time bin

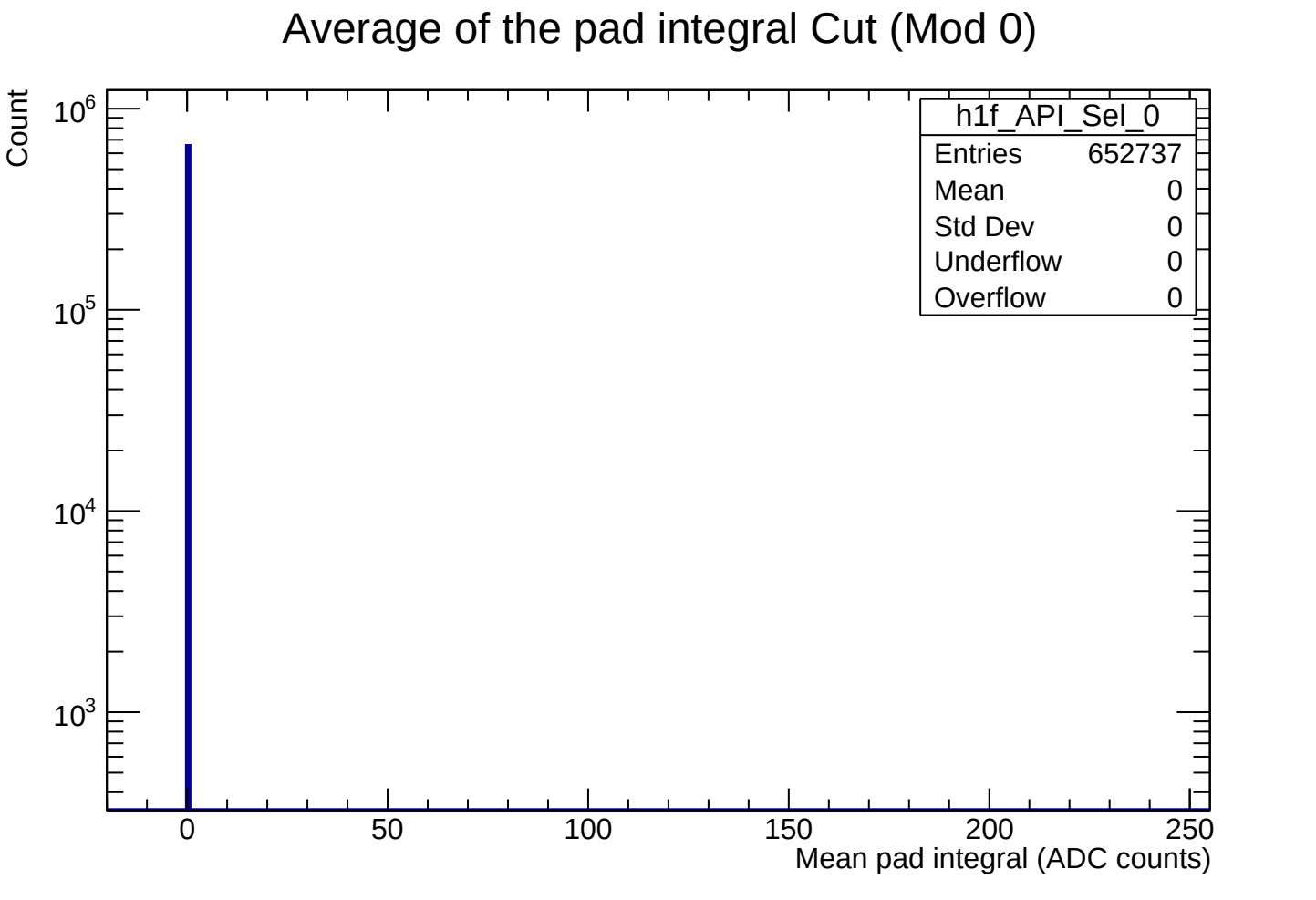

Pad Multiplicity Raw (Mod 0)
Count
10^5
10^4
h1f_PM_Raw_0
Entries 325063
Mean 2.508
Std Dev 0.6157
Underflow 0
Overflow 0
0
2
4
6
8
10
Number of pads

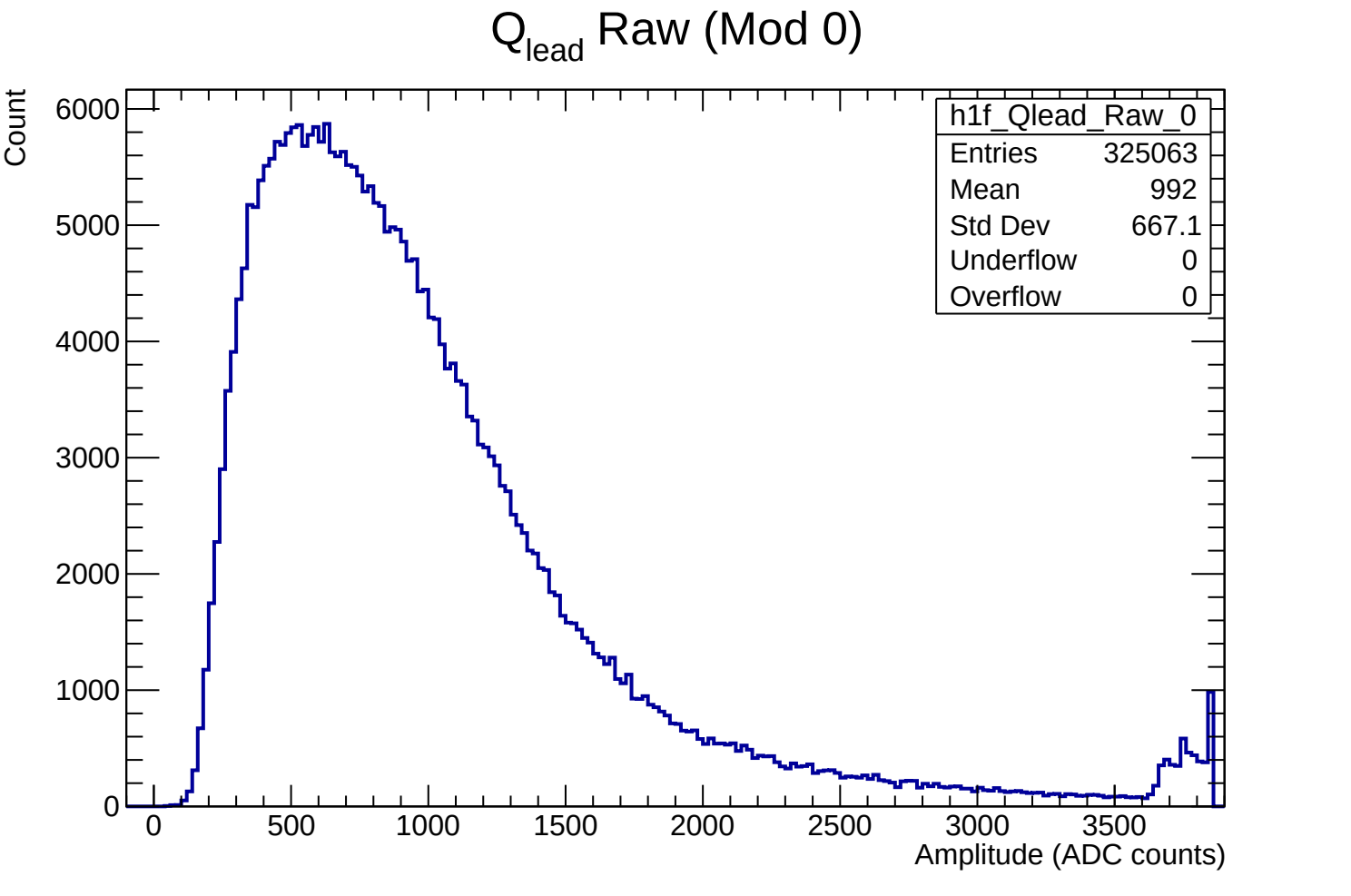

Pad Multiplicity Cut (Mod 0)
Count
10^5
10^4
h1f_PM_Sel_0
Entries 260506
Mean 2.506
Std Dev 0.5956
Underflow 0
Overflow 0
0
2
4
6
8
10
Number of pads

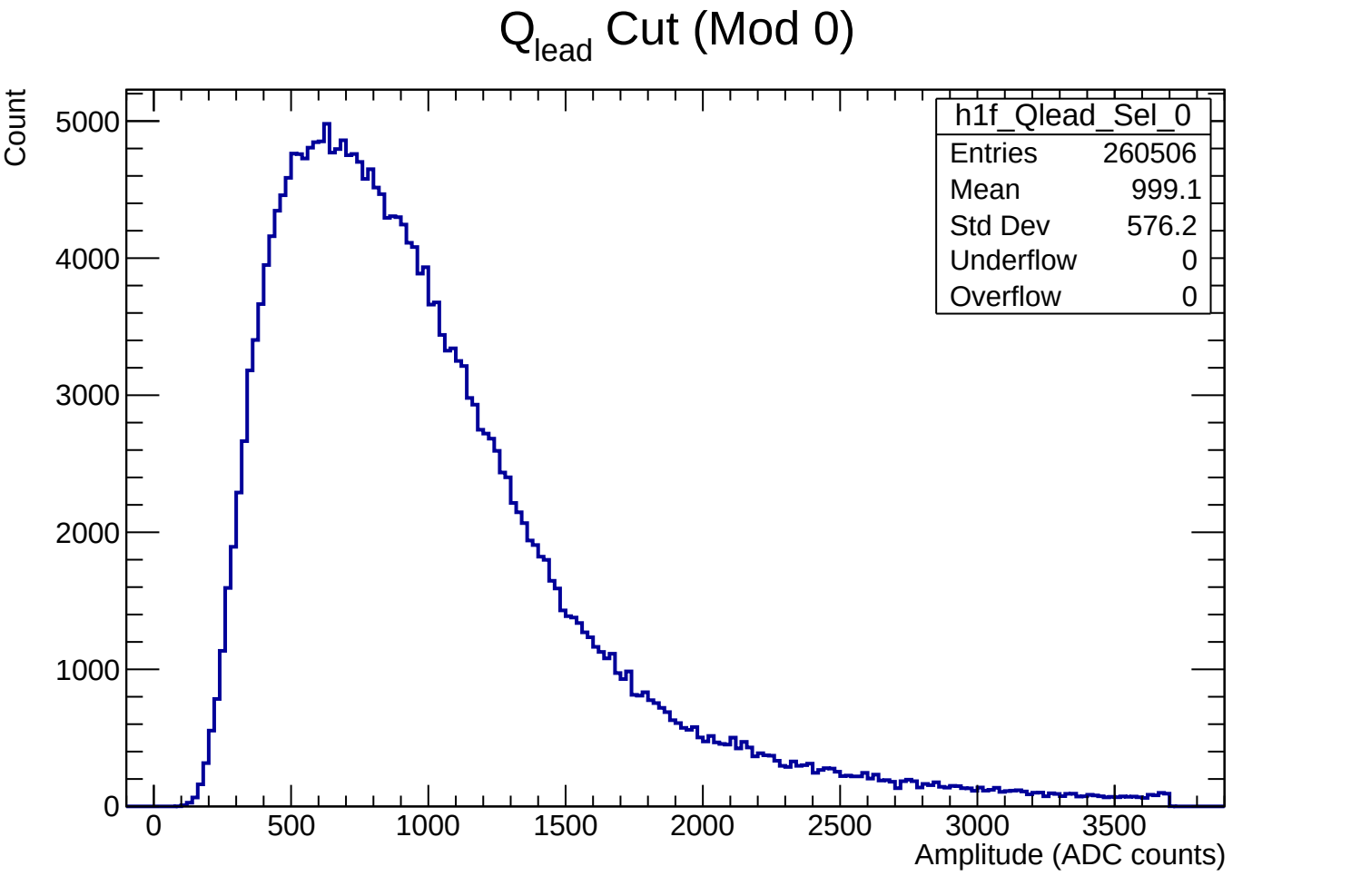

Average Pad Multiplicity Raw (Mod 0)
Count
h1f_APM_Raw_0
Entries 5445
Mean 2.508
Std Dev 0.178
Underflow 0
Overflow 0
10^3
10^2
10
1
0
2
4
6
8
10
average pad integral (ADC counts)

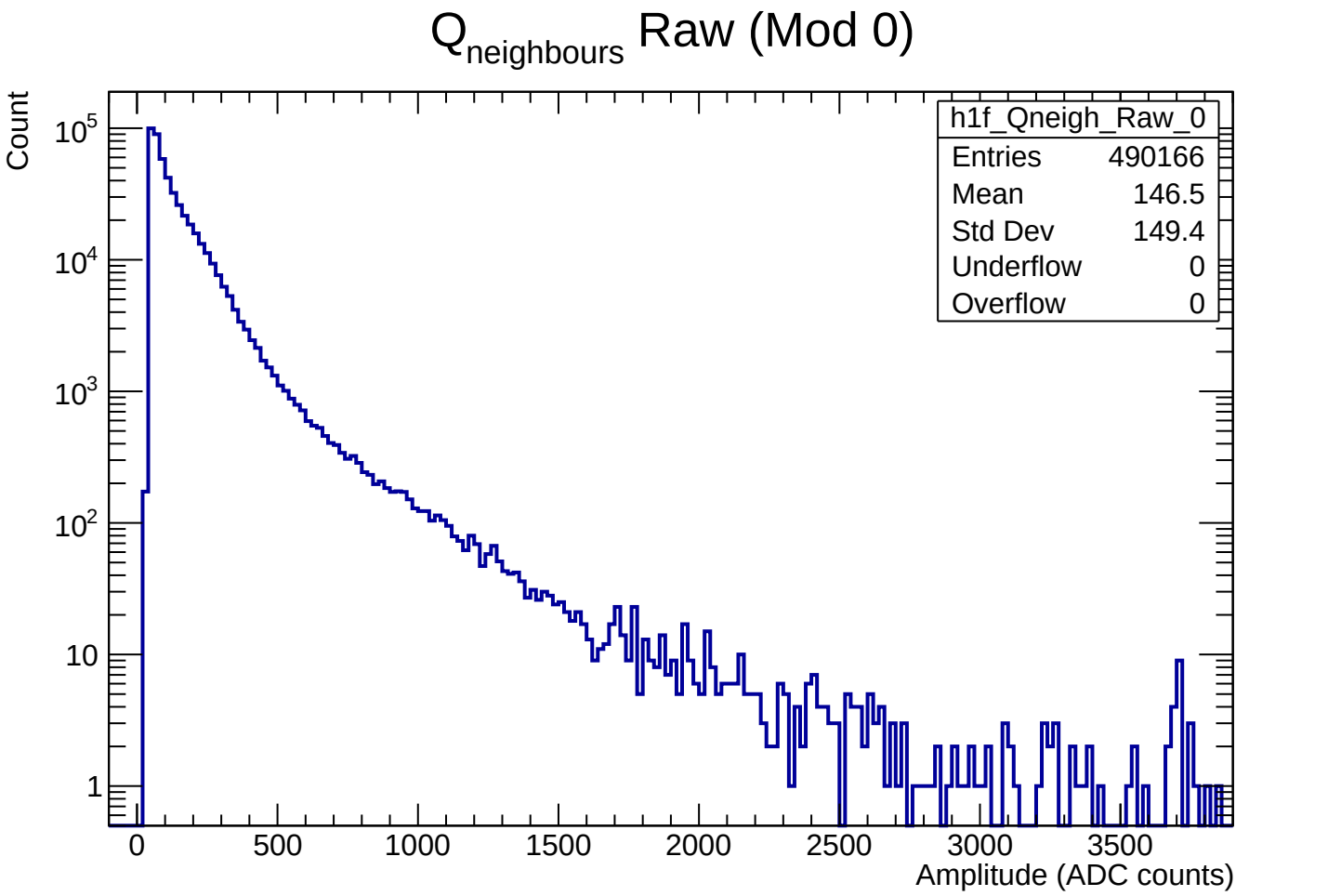

Average Pad Multiplicity Cut (Mod 0)
Count
10^3
10^2
10
1
0
2
4
6
8
10
average pad integral (ADC counts)
h1f_APM_Sel_0
Entries 4816
Mean 2.506
Std Dev 0.162
Underflow 0
Overflow 0

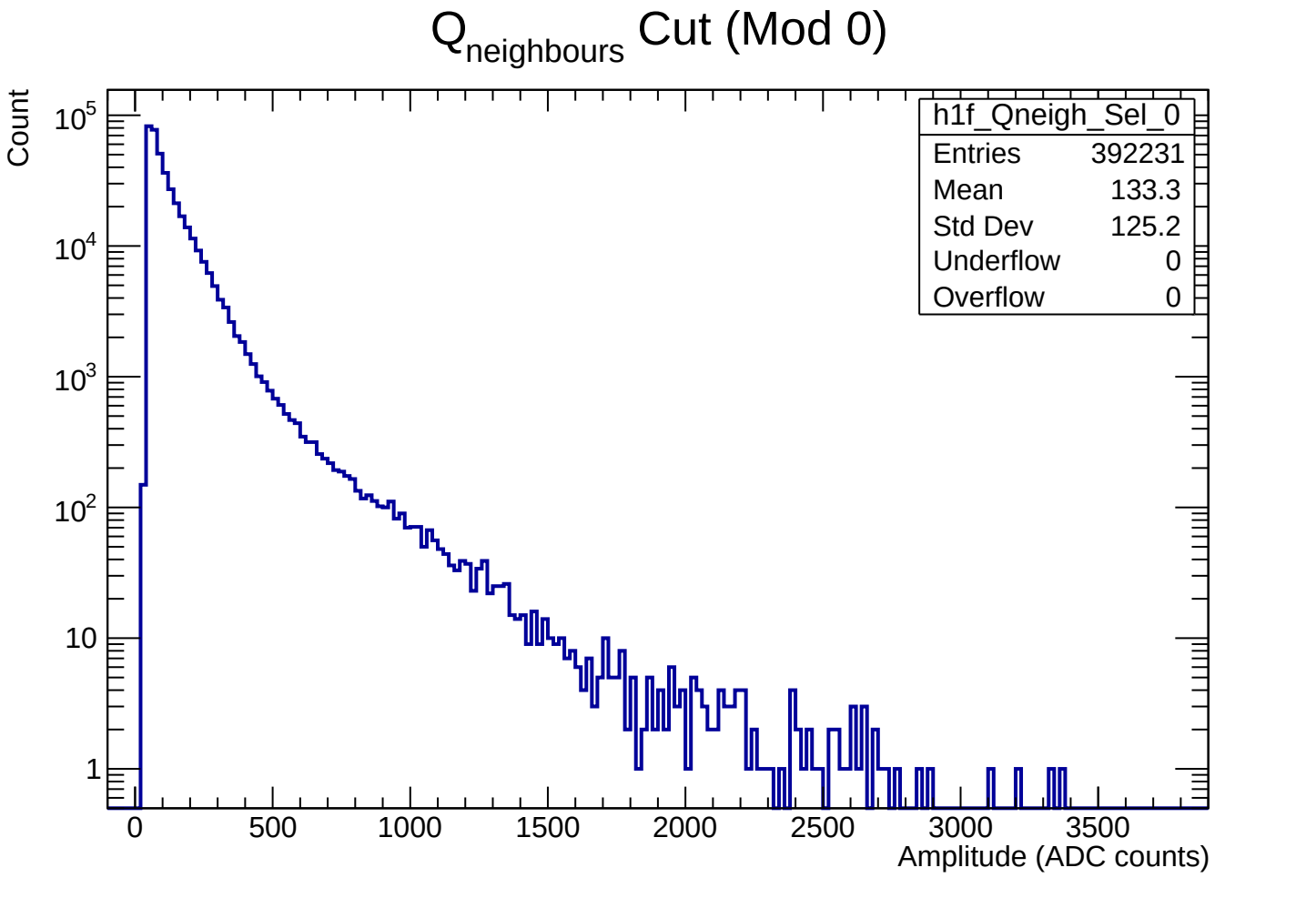

Average of the pad integral Raw (Mod 0)
Count
10^6
10^5
10^4
10^3
h1f_API_Raw_0
Entries 815229
Mean 0
Std Dev 0
Underflow 0
Overflow 0
0
50
100
150
200
250
Mean pad integral (ADC counts)

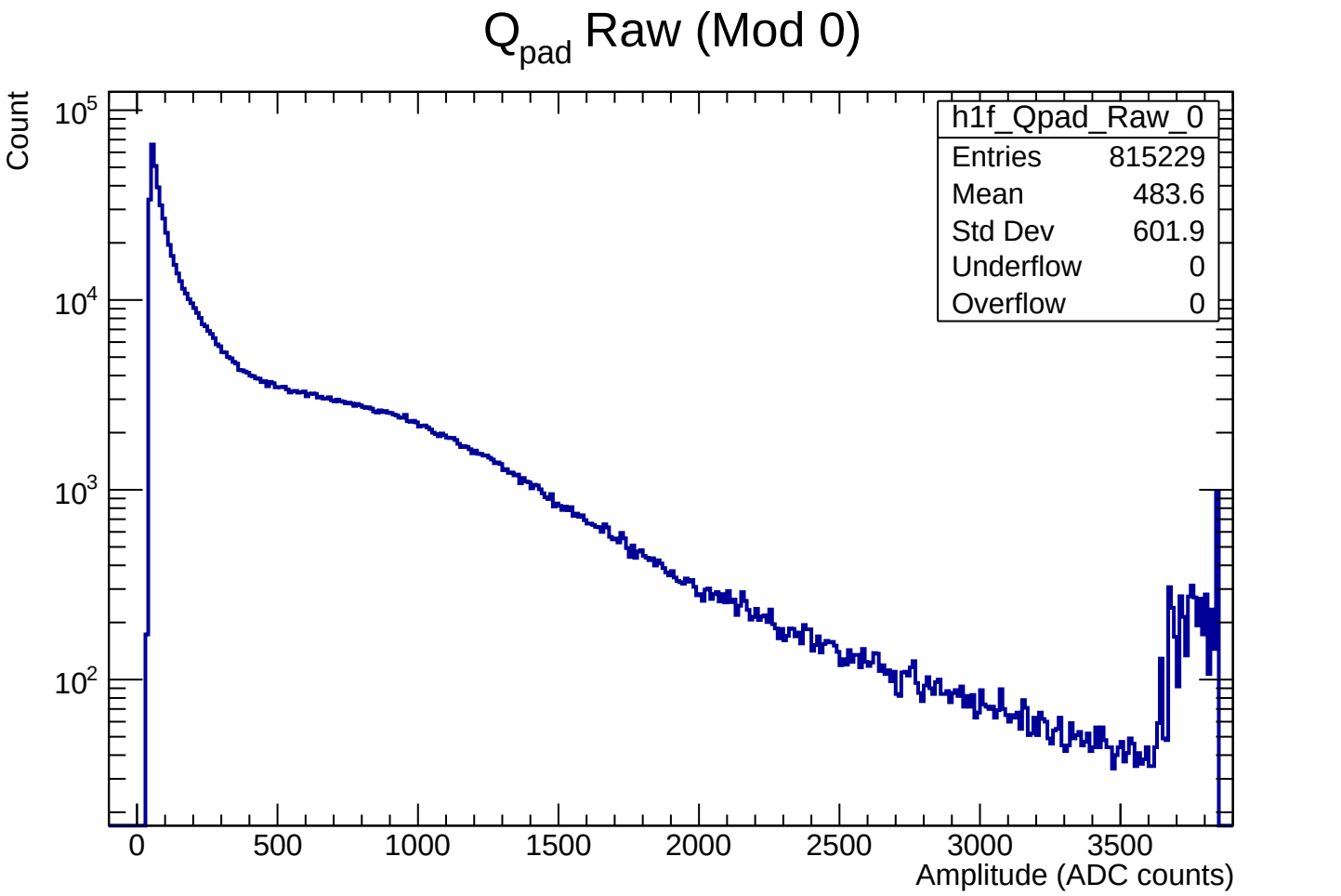

Average of the pad integral Cut (Mod 0)
Count
10^6
10^5
10^4
10^3
h1f_API_Sel_0
Entries 652737
Mean 0
Std Dev 0
Underflow 0
Overflow 0
0
50
100
150
200
250
Mean pad integral (ADC counts)

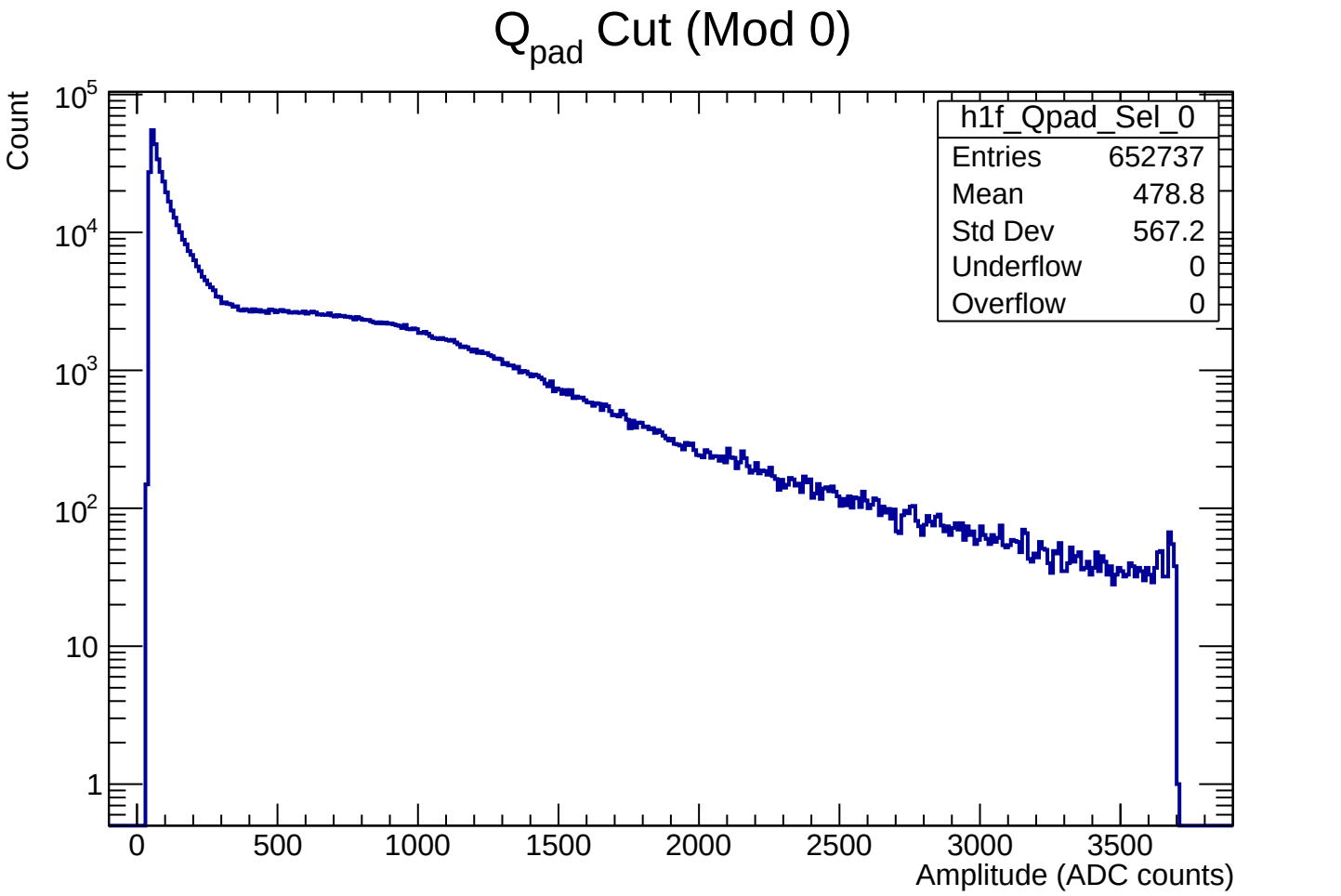

Q_{lead} Raw (Mod 0)
Count
6000
5000
4000
3000
2000
1000
0
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qlead_Raw_0
Entries 325063
Mean 992
Std Dev 667.1
Underflow 0
Overflow 0

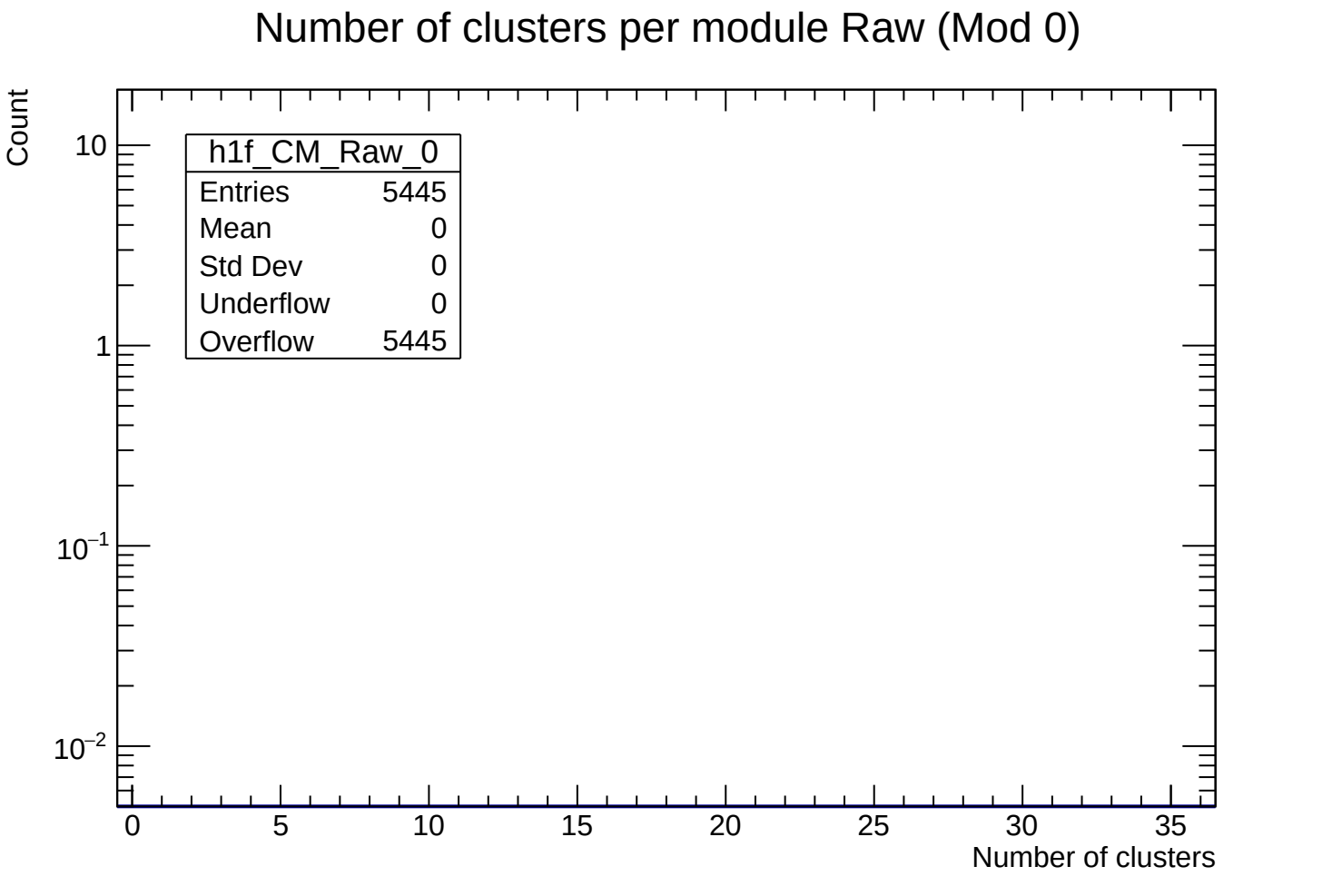

Q_{lead} Cut (Mod 0)
Count
5000
4000
3000
2000
1000
0
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qlead_Sel_0
Entries 260506
Mean 999.1
Std Dev 576.2
Underflow 0
Overflow 0

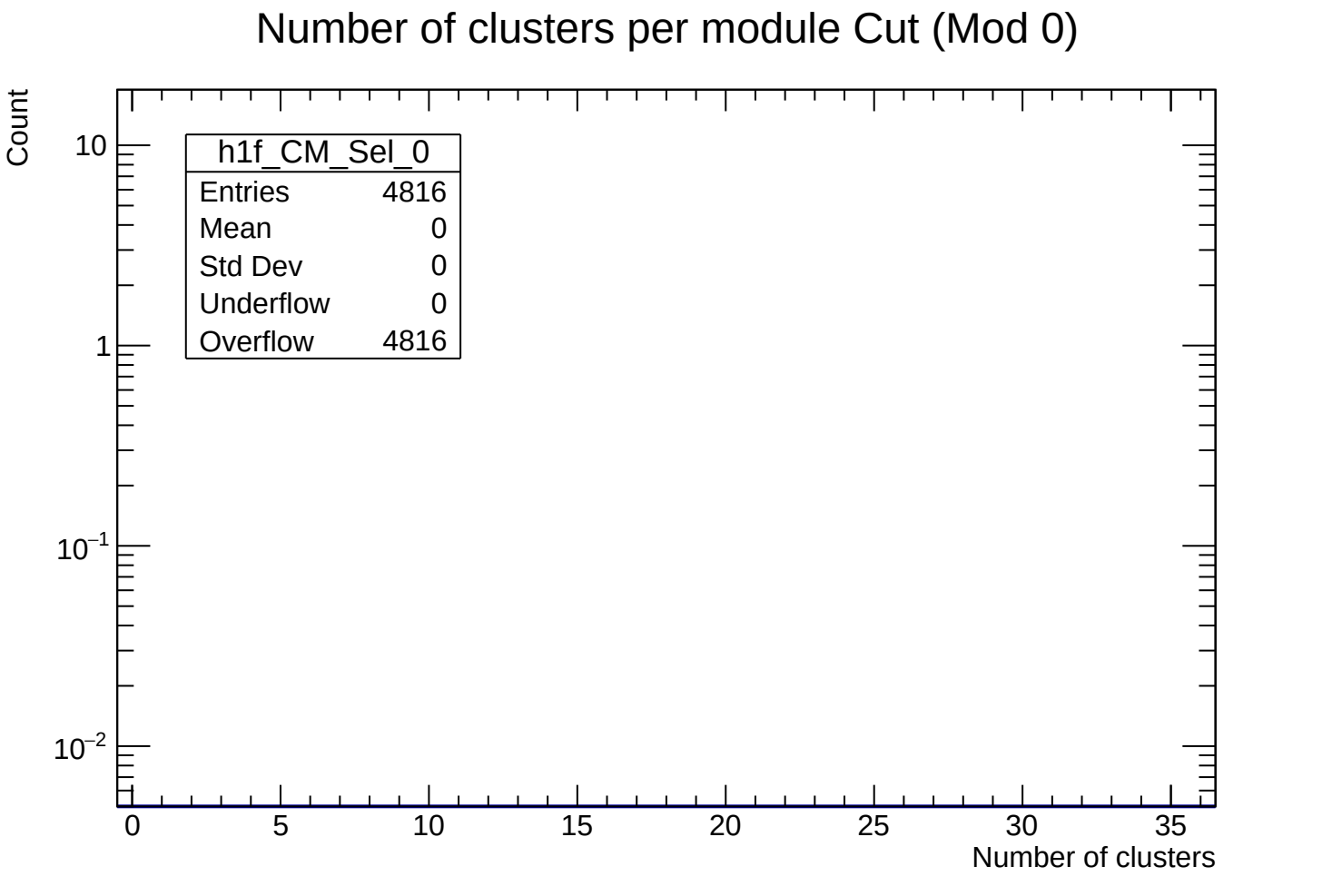

$Q_{neighbours}$ Raw (Mod 0)
Count
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qneigh_Raw_0
Entries 490166
Mean 146.5
Std Dev 149.4
Underflow 0
Overflow 0

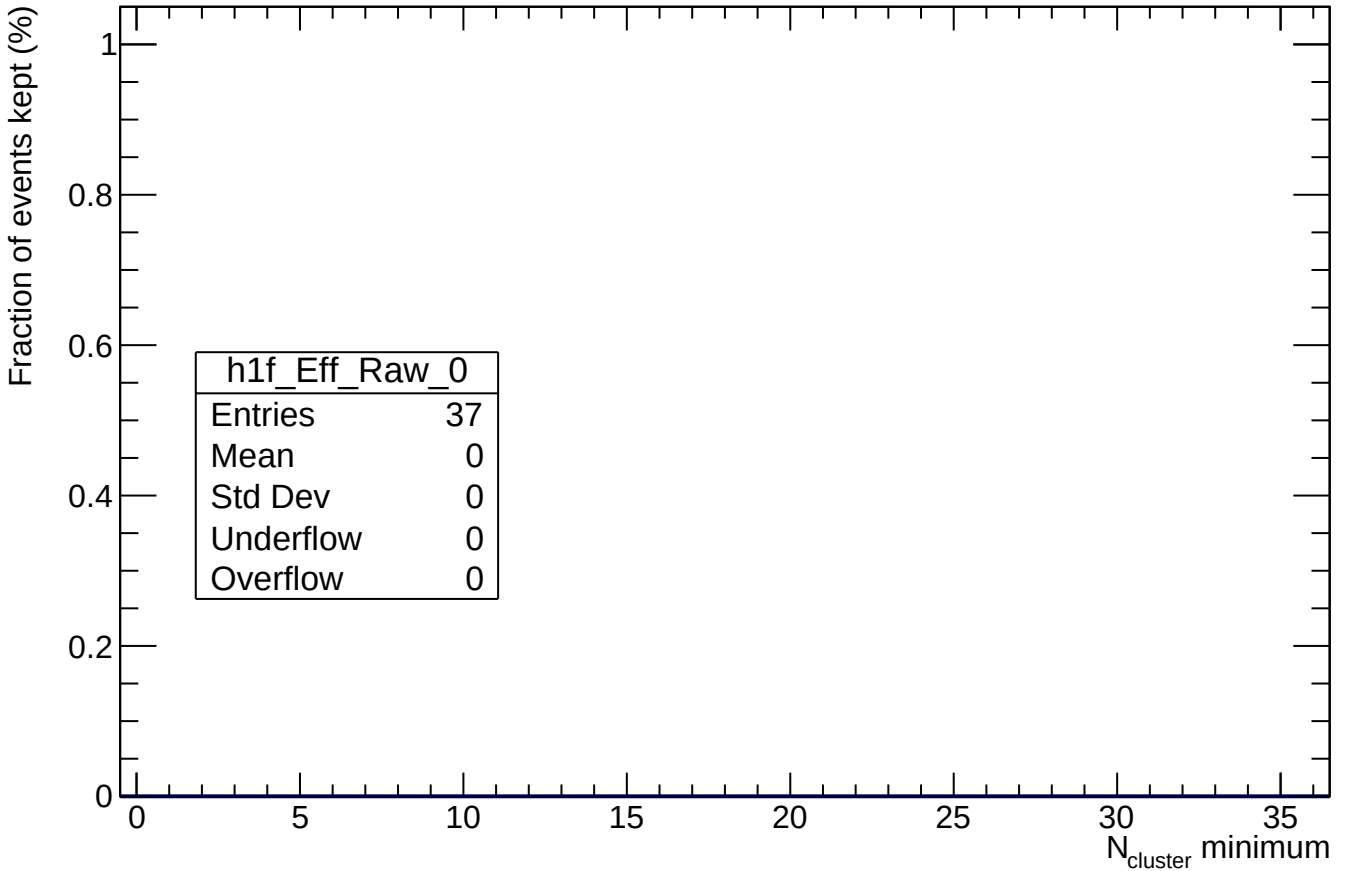

$Q_{neighbours}$ Cut (Mod 0)
Count
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qneigh_Sel_0
Entries 392231
Mean 133.3
Std Dev 125.2
Underflow 0
Overflow 0

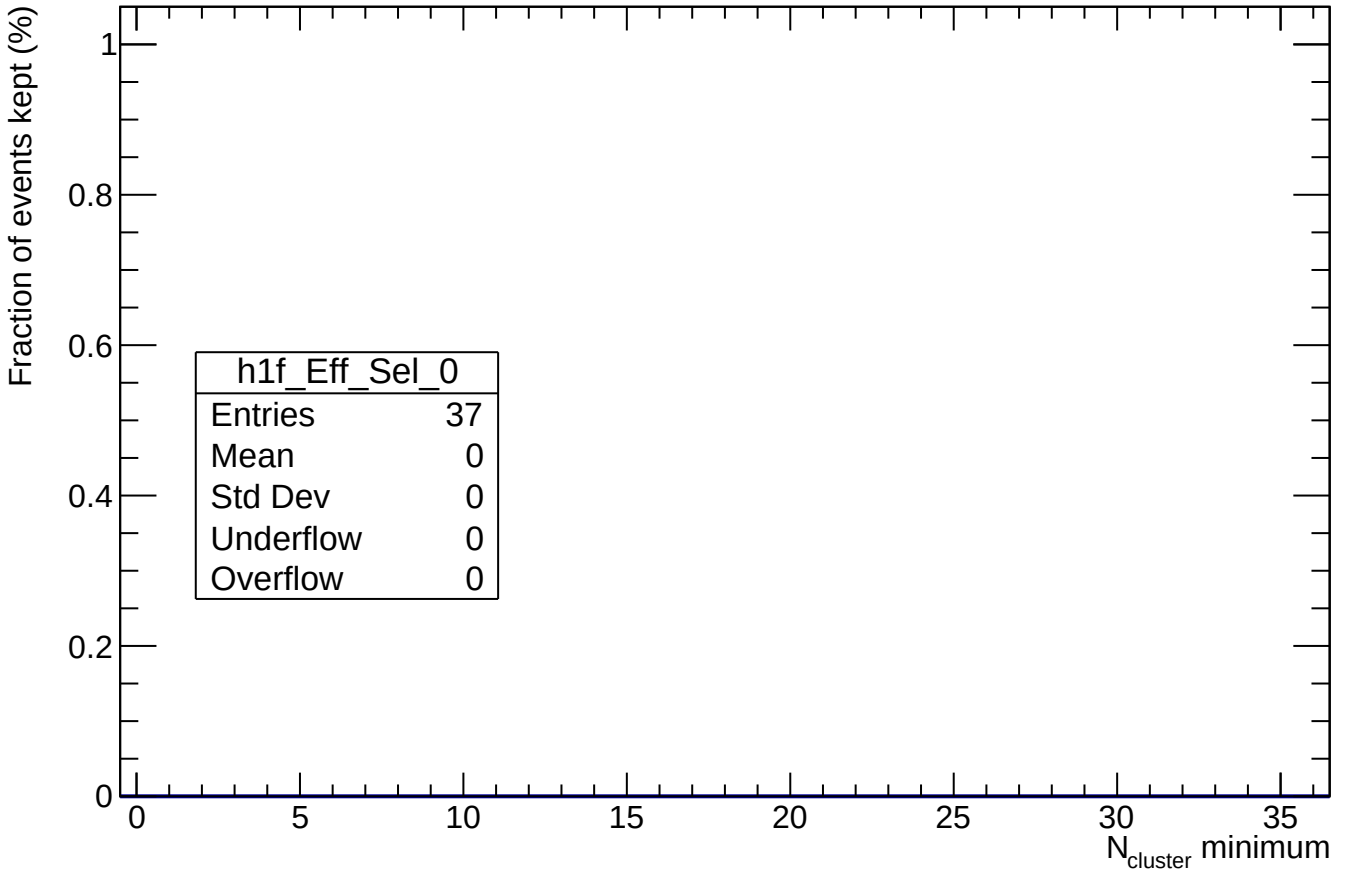

Q_{pad} Raw (Mod 0)
Count
10^5
10^4
10^3
10^2
h1f_Qpad_Raw_0
Entries 815229
Mean 483.6
Std Dev 601.9
Underflow 0
Overflow 0
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)

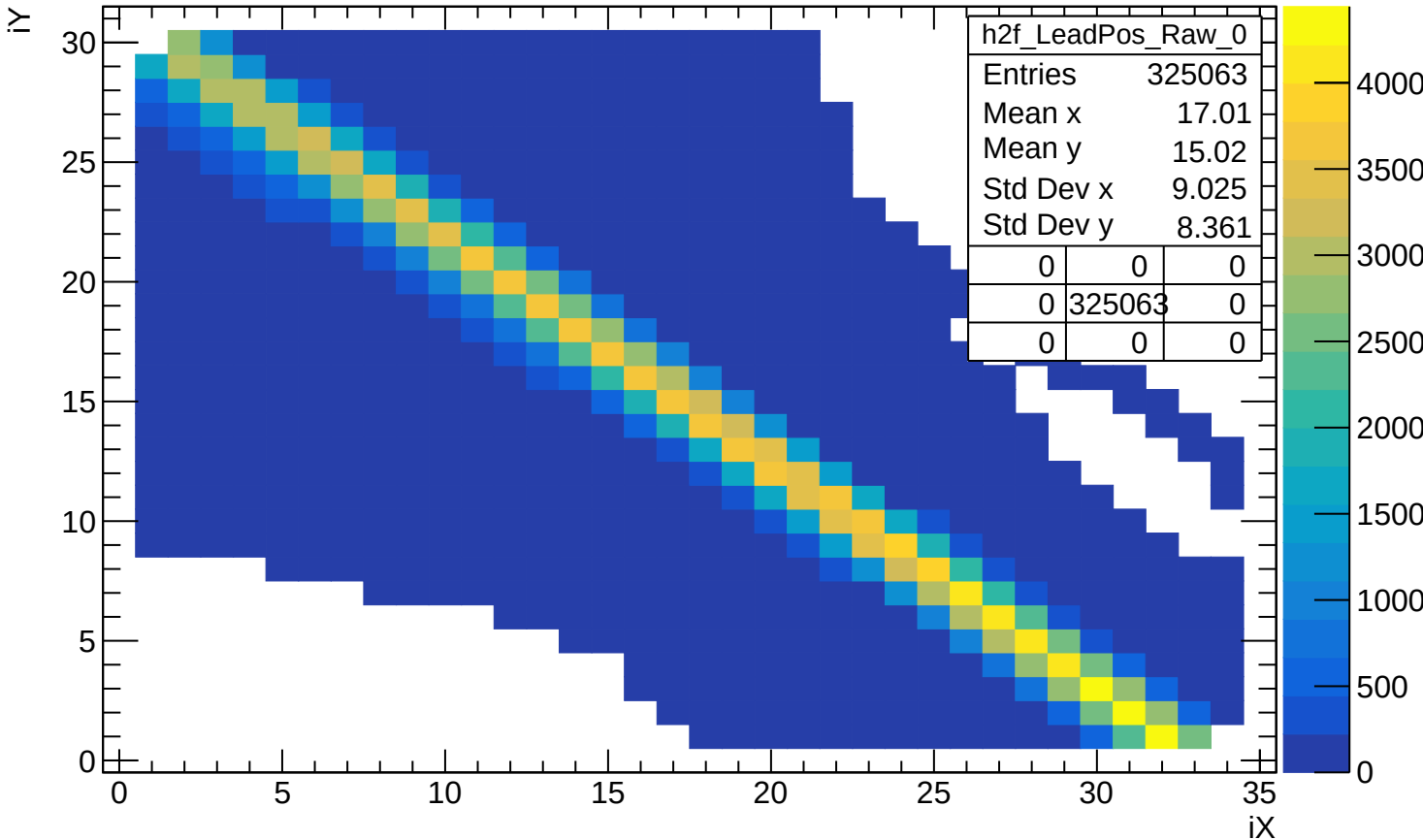

Q_{pad} Cut (Mod 0)
Count
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
3000
3500
Amplitude (ADC counts)
h1f_Qpad_Sel_0
Entries 652737
Mean 478.8
Std Dev 567.2
Underflow 0
Overflow 0

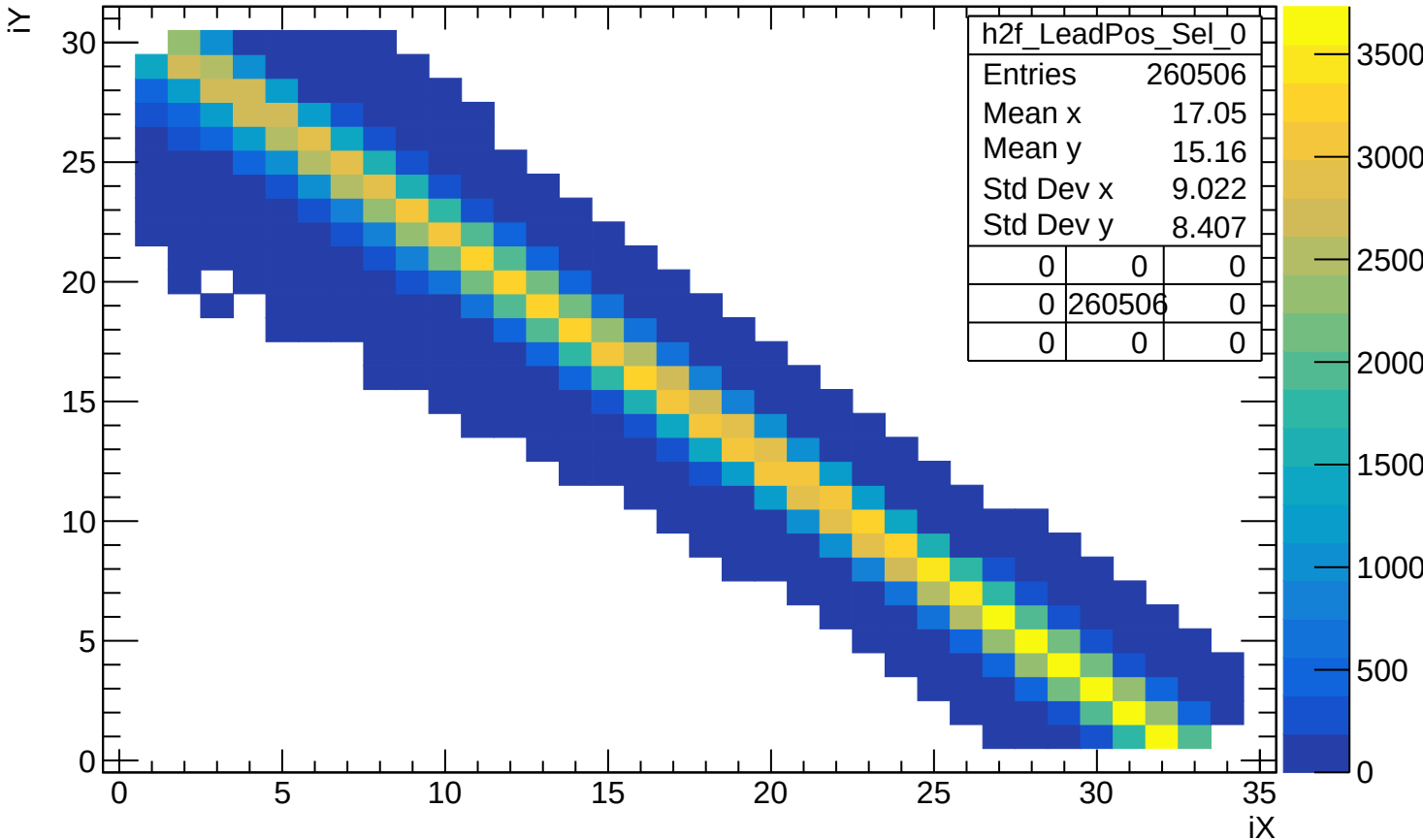

Number of clusters per module Raw (Mod 0)
Count
h1f_CM_Raw_0
Entries 5445
Mean 0
Std Dev 0
Underflow 0
Overflow 5445
10
1
10^{-1}
10^{-2}
0
5
10
15
20
25
30
35
Number of clusters

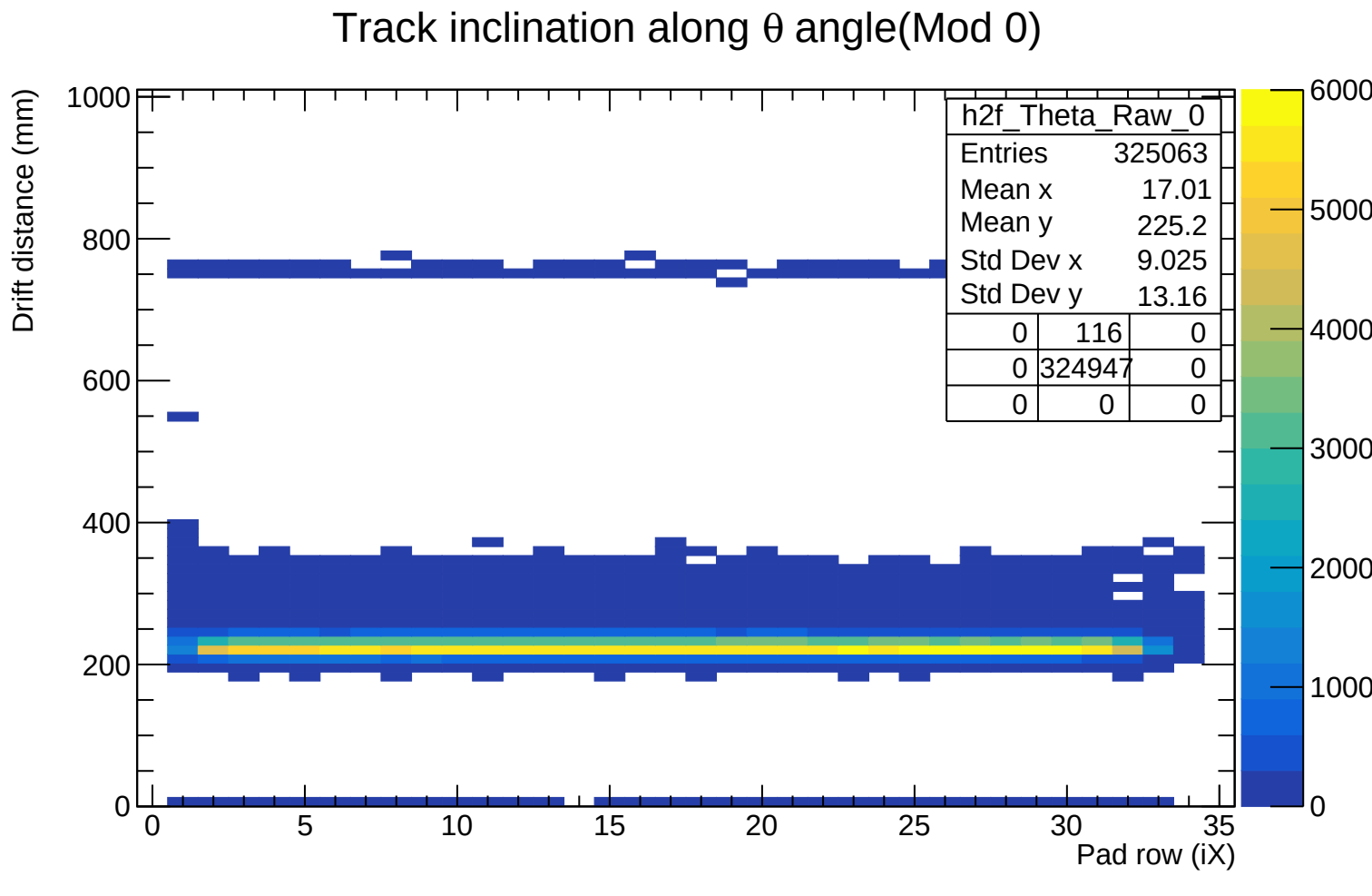

Number of clusters per module Cut (Mod 0)
Count
h1f_CM_Sel_0
Entries 4816
Mean 0
Std Dev 0
Underflow 0
Overflow 4816
10
1
10^{-1}
10^{-2}
0
5
10
15
20
25
30
35
Number of clusters

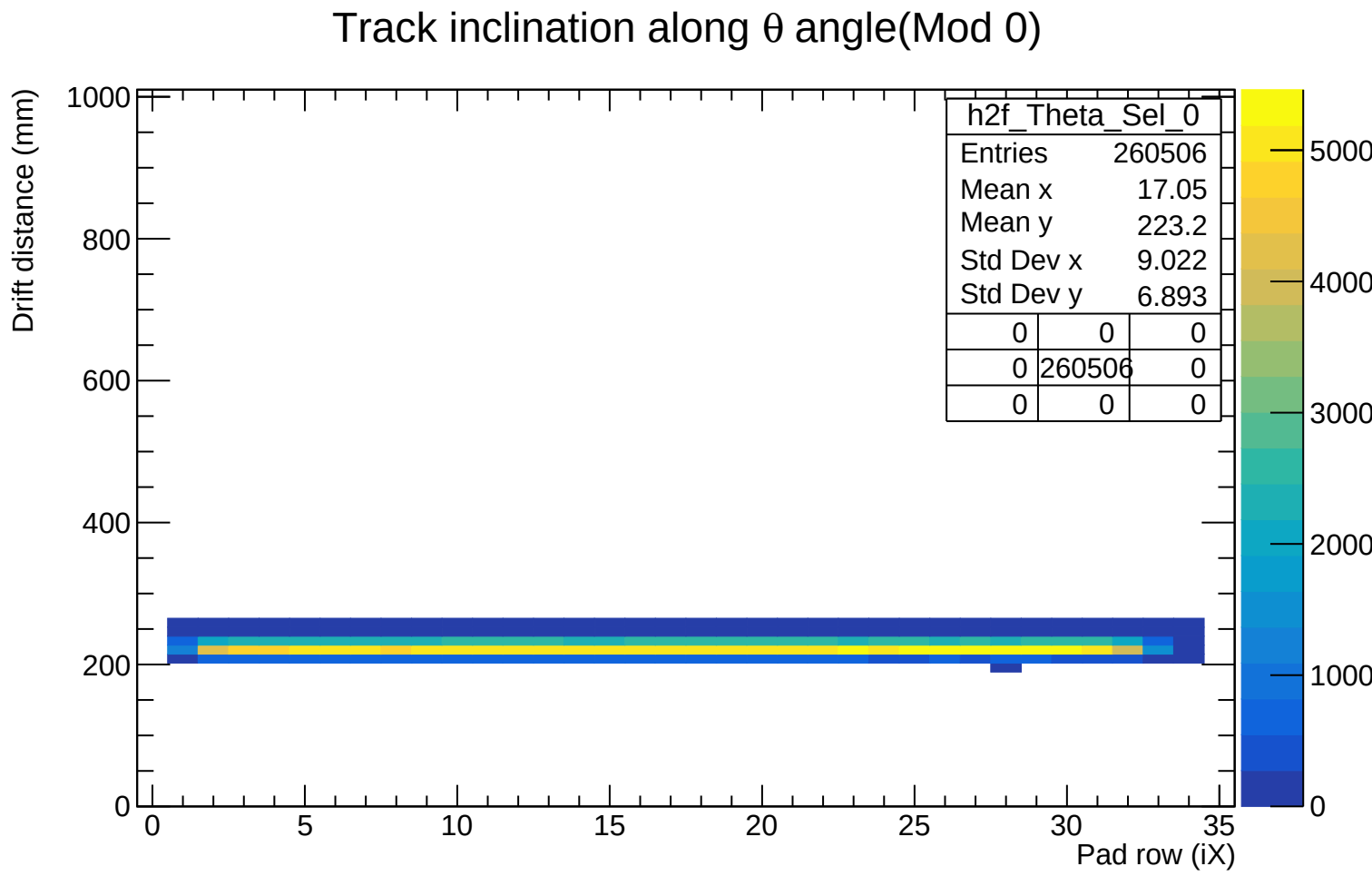

Efficiency : final fraction of events Raw (Mod 0)
Fraction of events kept (%)
1
0.8
0.6
0.4
0.2
0
h1f_Eff_Raw_0
Entries 37
Mean 0
Std Dev 0
Underflow 0
Overflow 0
0
5
10
15
20
25
30
35
N cluster minimum


Efficiency : final fraction of events Cut (Mod 0)
Fraction of events kept (%)
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
25
30
35
N_cluster minimum
h1f_Eff_Sel_0
Entries 37
Mean 0
Std Dev 0
Underflow 0
Overflow 0


Position of leading pads in ERAM (Mod 0)
iY
iX
h2f_LeadPos_Raw_0
Entries 325063
Mean x 17.01
Mean y 15.02
Std Dev x 9.025
Std Dev y 8.361
0 0 0
0 325063 0
0 0 0
0
5
10
15
20
25
30
35
500
1000
1500
2000
2500
3000
3500
4000


Position of leading pads in ERAM (Mod 0)
h2f_LeadPos_Sel_0
Entries 260506
Mean x 17.05
Mean y 15.16
Std Dev x 9.022
Std Dev y 8.407
0 0 0
0 260506 0
0 0 0
iY
iX
0
5
10
15
20
25
30
35
500
1000
1500
2000
2500
3000
3500


Track inclination along θ angle(Mod 0)
h2f_Theta_Raw_0
Entries 325063
Mean x 17.01
Mean y 225.2
Std Dev x 9.025
Std Dev y 13.16
0 116 0
0 324947 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
1000
2000
3000
4000
5000
6000


Track inclination along θ angle(Mod 0)
h2f_Theta_Sel_0
Entries 260506
Mean x 17.05
Mean y 223.2
Std Dev x 9.022
Std Dev y 6.893
0 0 0
0 260506 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
1000
2000
3000
4000
5000