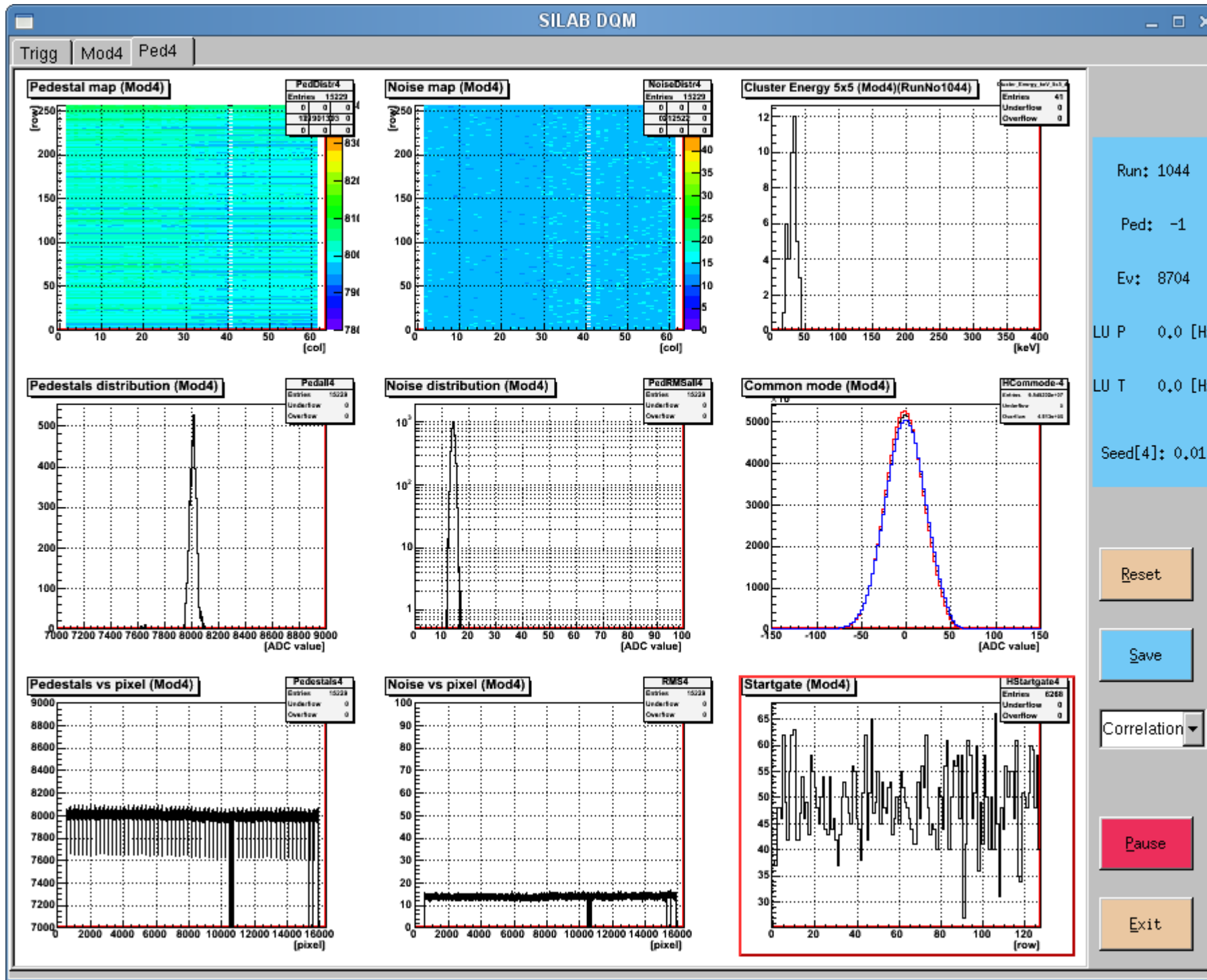


MATRIX H3.0.20

Jevgenij Visniakov



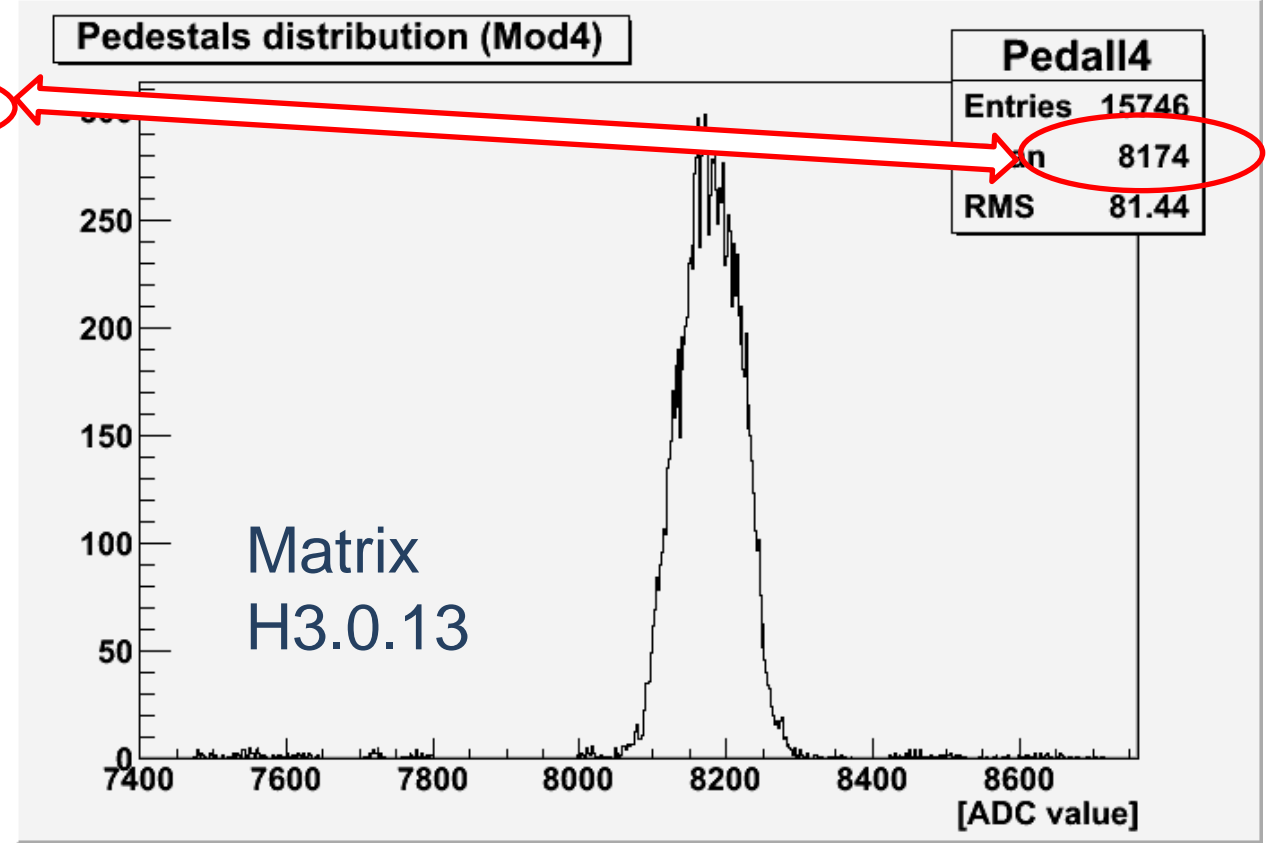
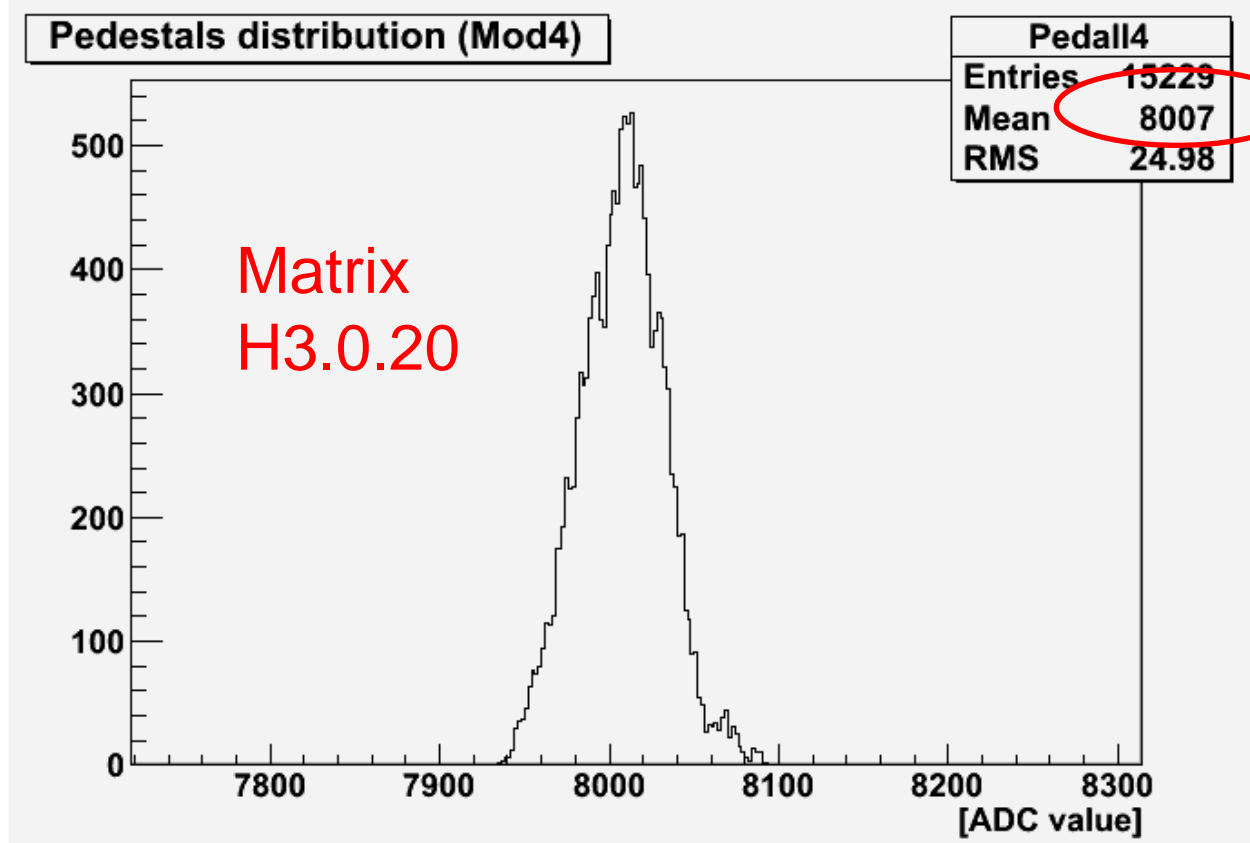
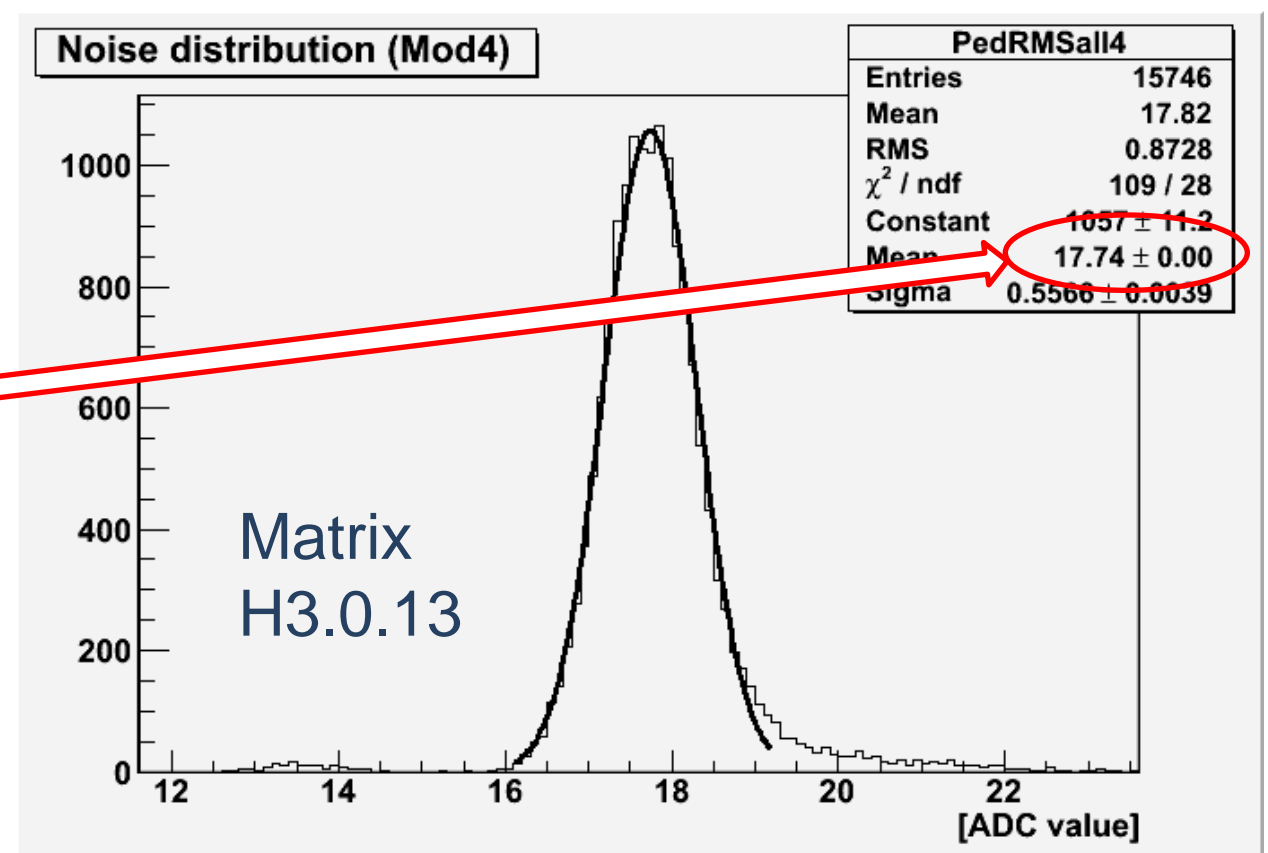
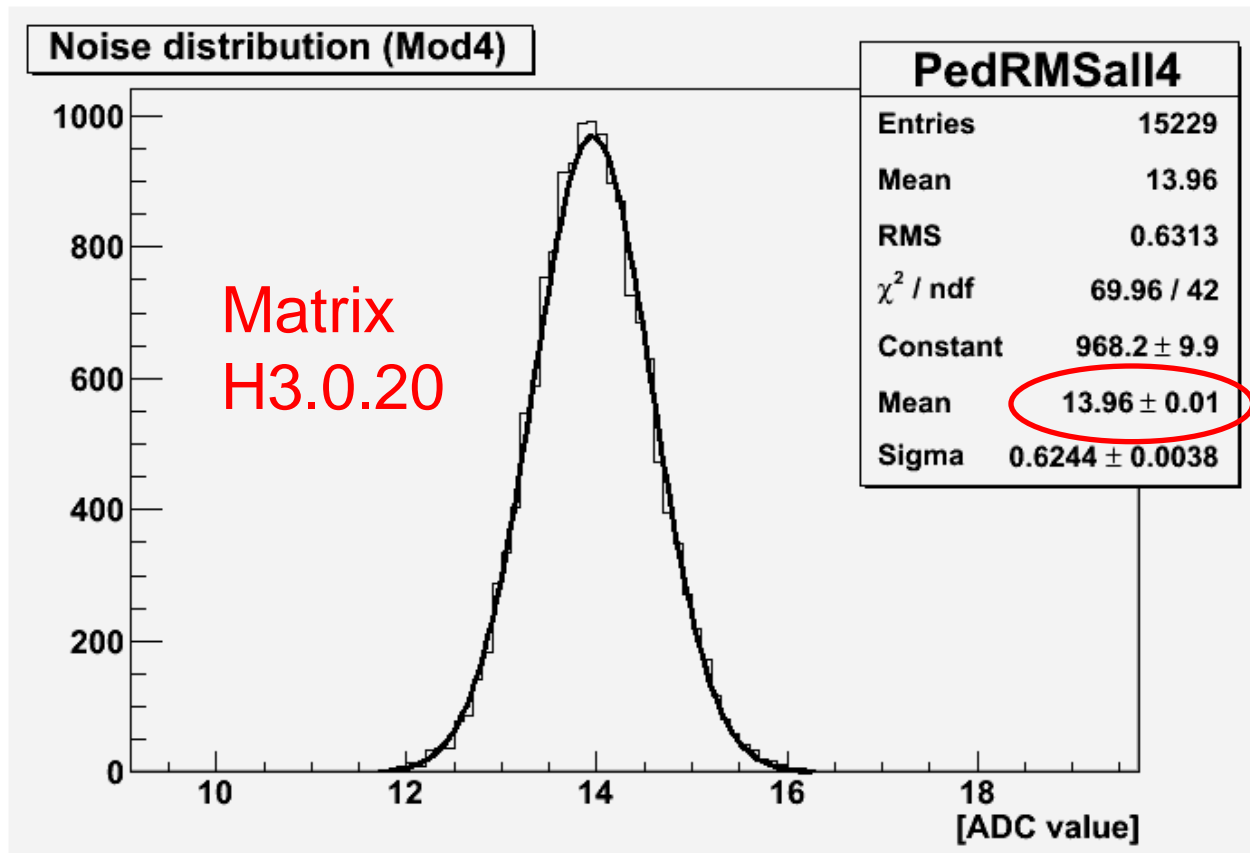
Run: 1044
 Ped: -1
 Ev: 8704
 LU P 0.0 [Hz]
 LU T 0.0 [Hz]
 Seed[4]: 0.01

Reset
 Save
 Correlation
 Pause
 Exit

Run 1044 to calculate clean pedestals for further runs.

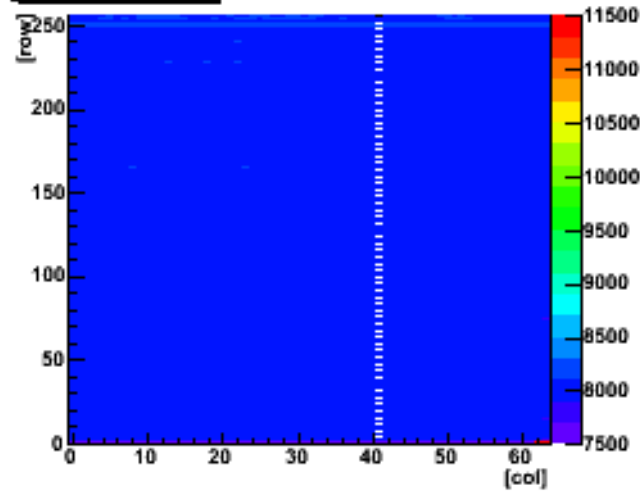
Events number: 8704
 Run time: ~ 4 min.

Pedestals and noise distributions

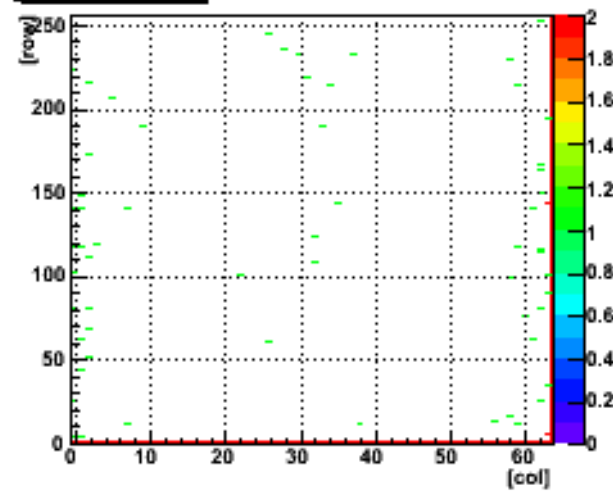


Longer run without a source

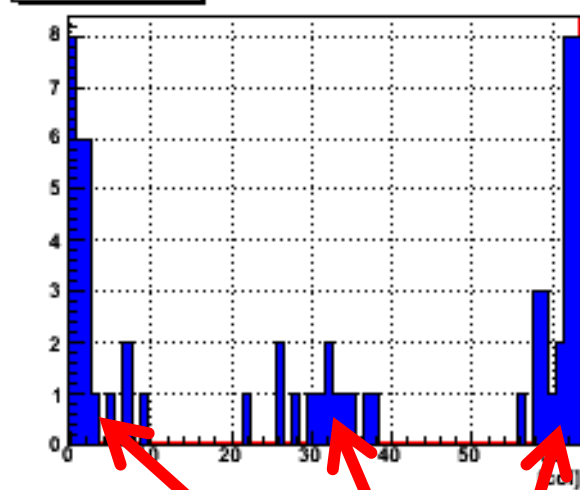
XY RAW (Mod4)



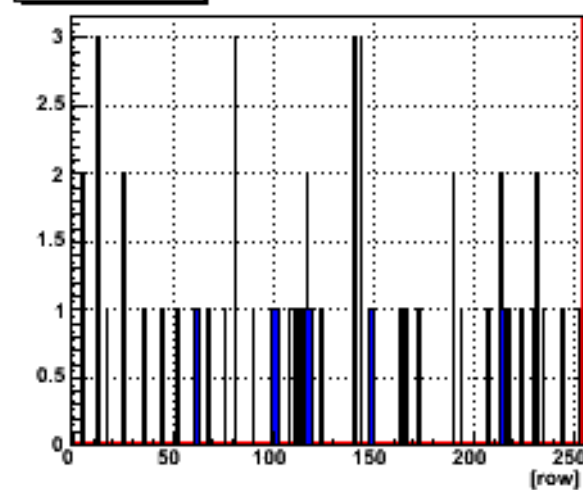
XY hits (Mod4)



XY hits (Mod4)



XY hits (Mod4)



Longer run to evaluate noisy pixels.

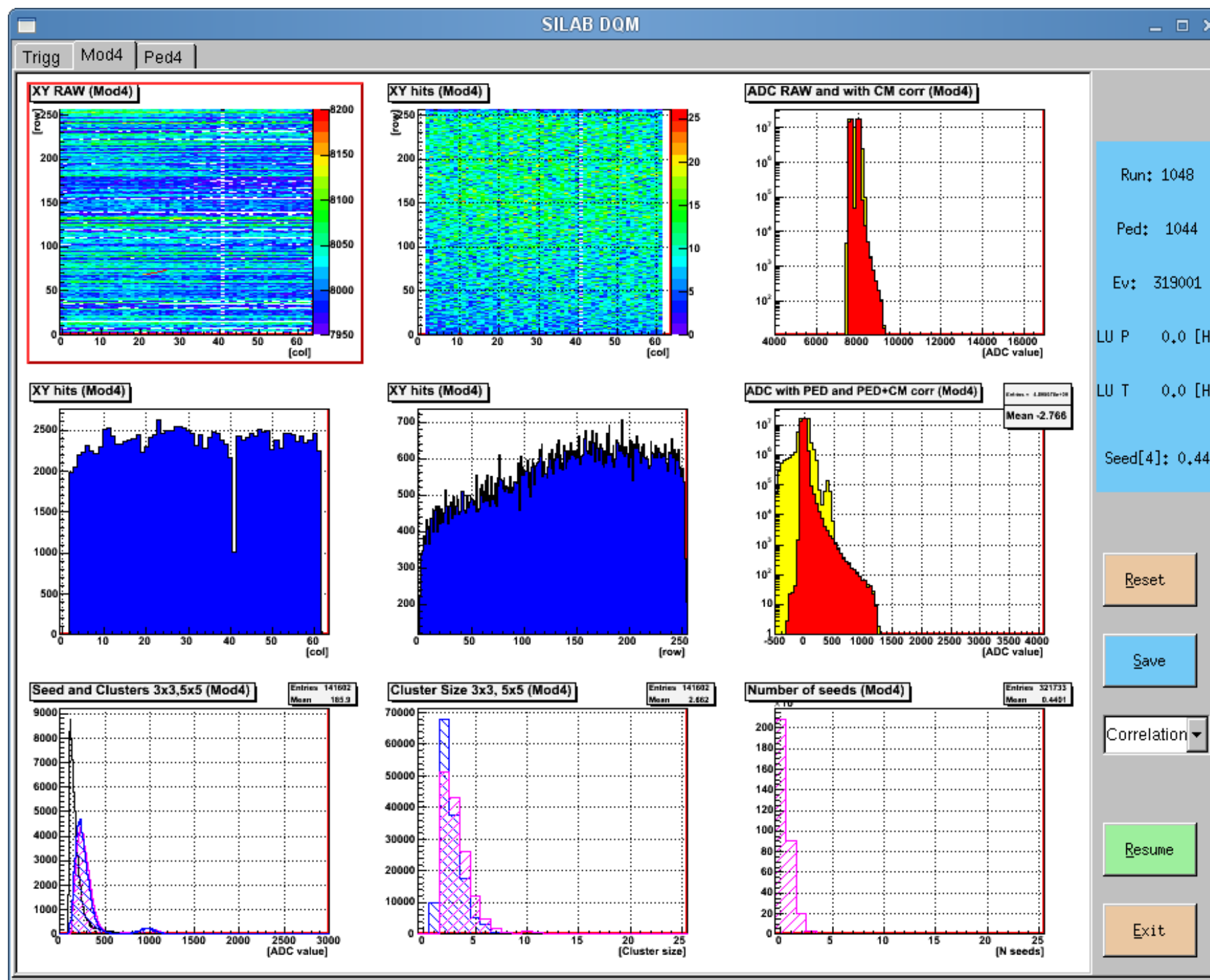
Events number: 49901

Run time: ~ 15 min.

Noisy pixels.

4 columns were removed:
Column 0, 1, 63, 64

Long run with the source



Run 1048
Source – Am241

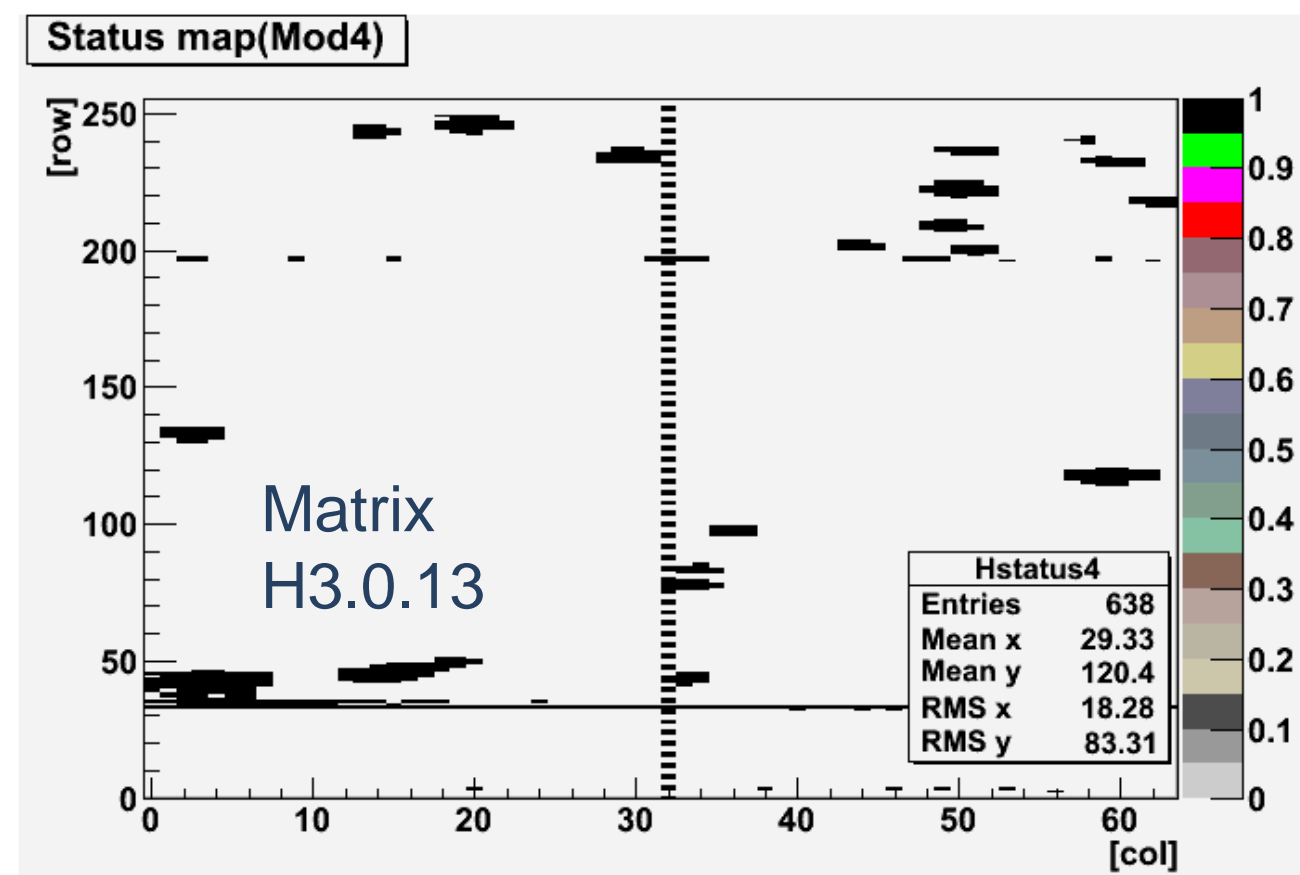
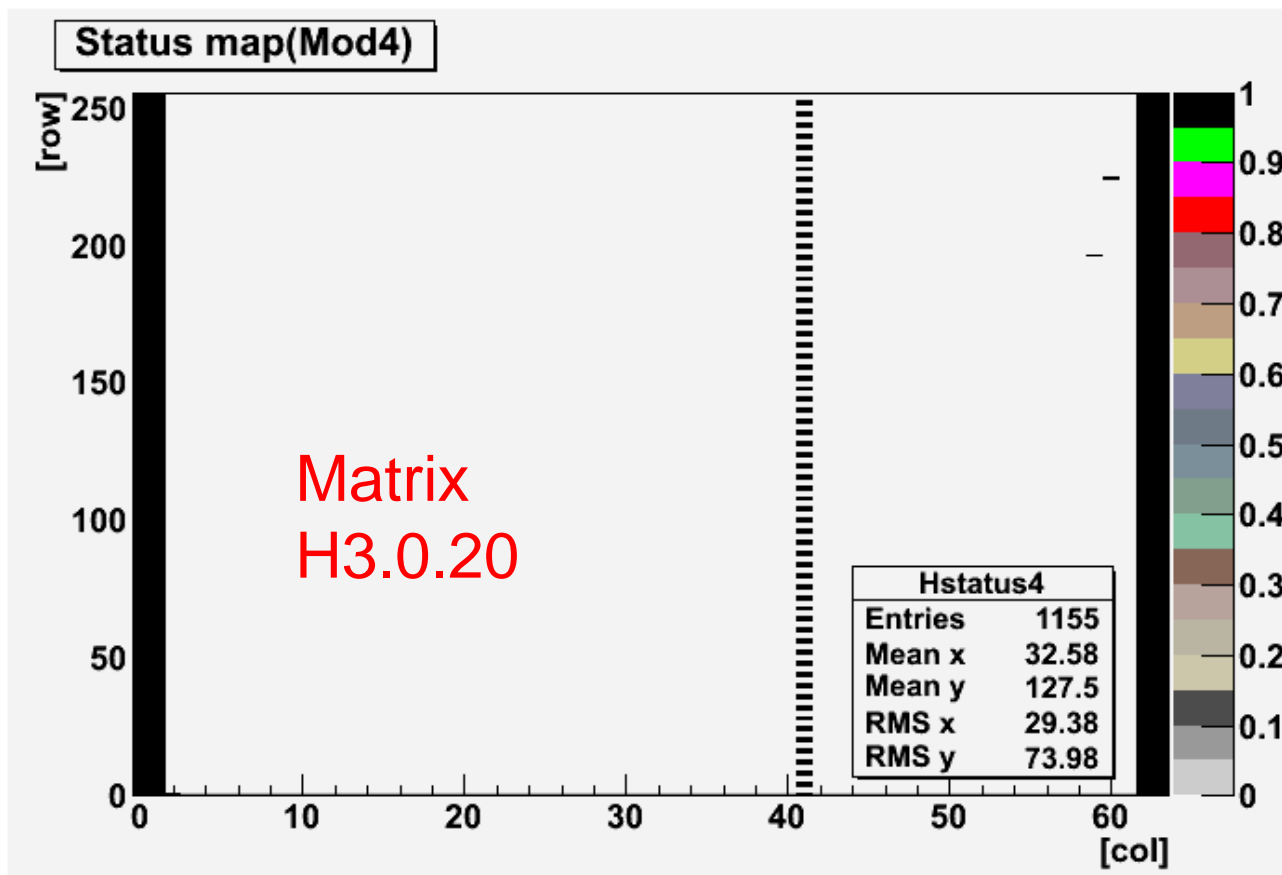
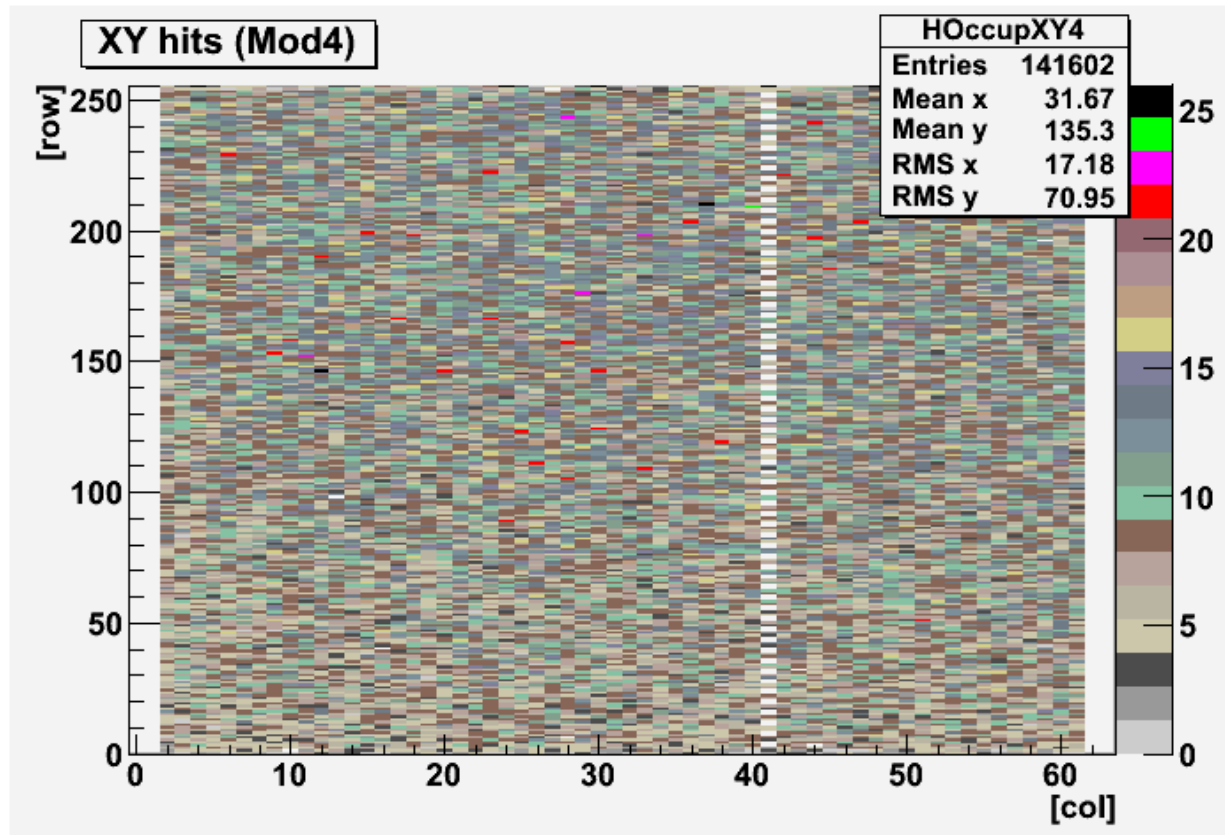
Events number: 319001
Run time: 60 min.

Applied pedestals – 1044

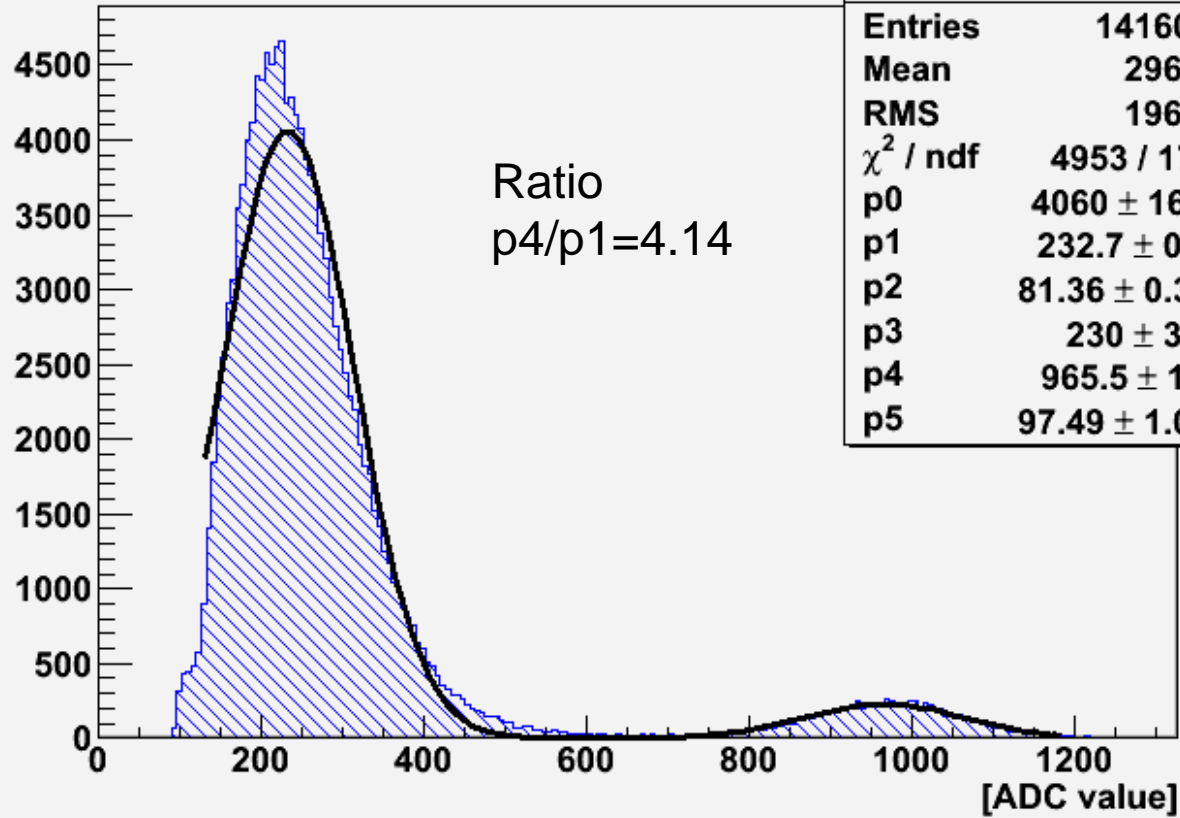
Run1048-000.dat
Run1048-001.dat
Run1048-002.dat
Run1048-003.dat
Run1048-004.dat
Run1048-005.dat

Total amount of data – 11.2GB

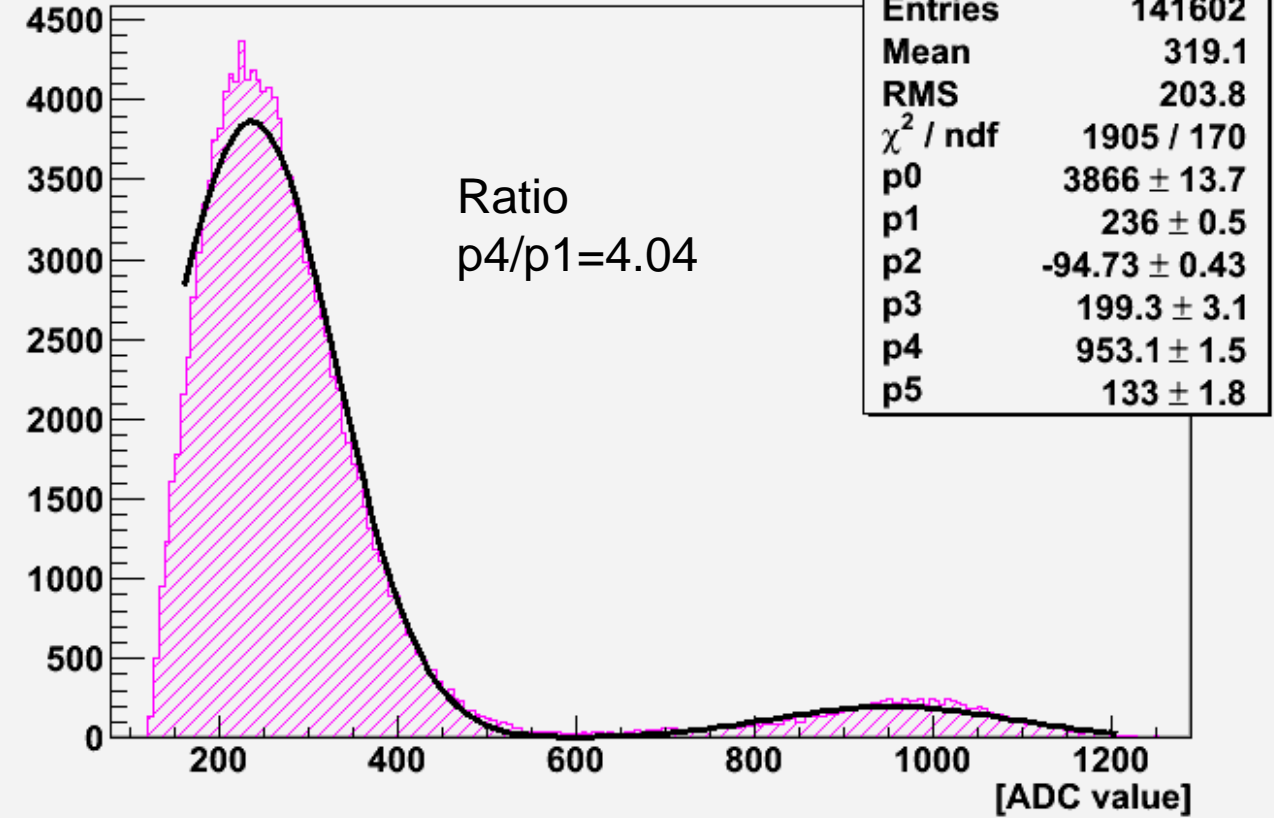
XY hits & Status map



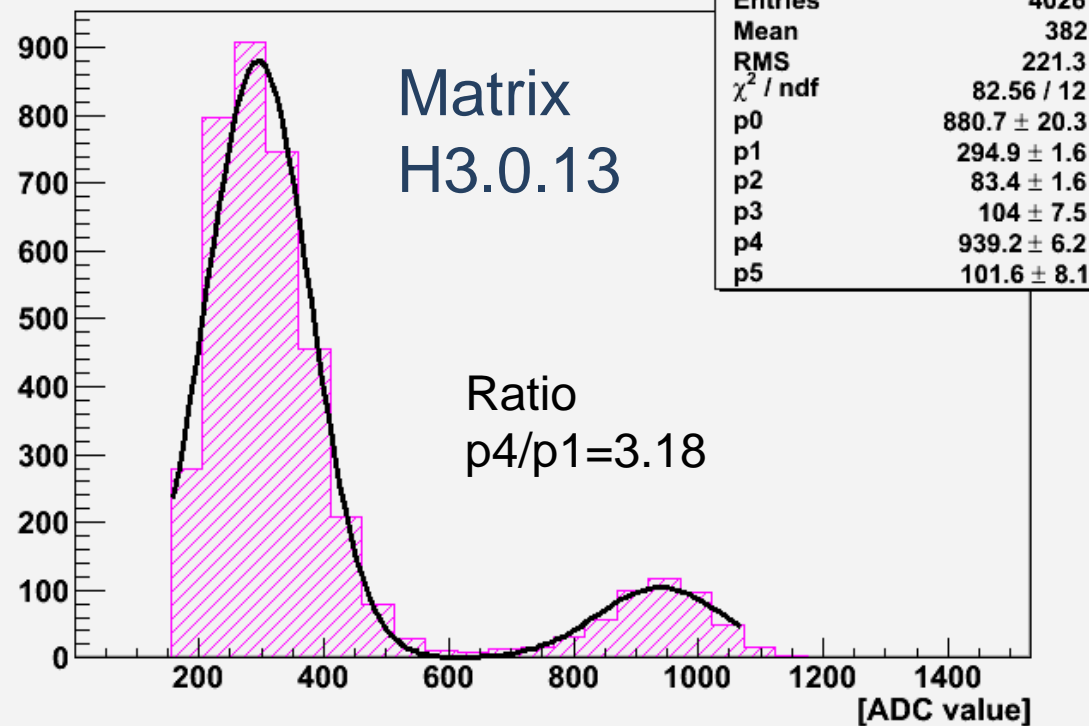
Cluster 3x3 (Mod4)

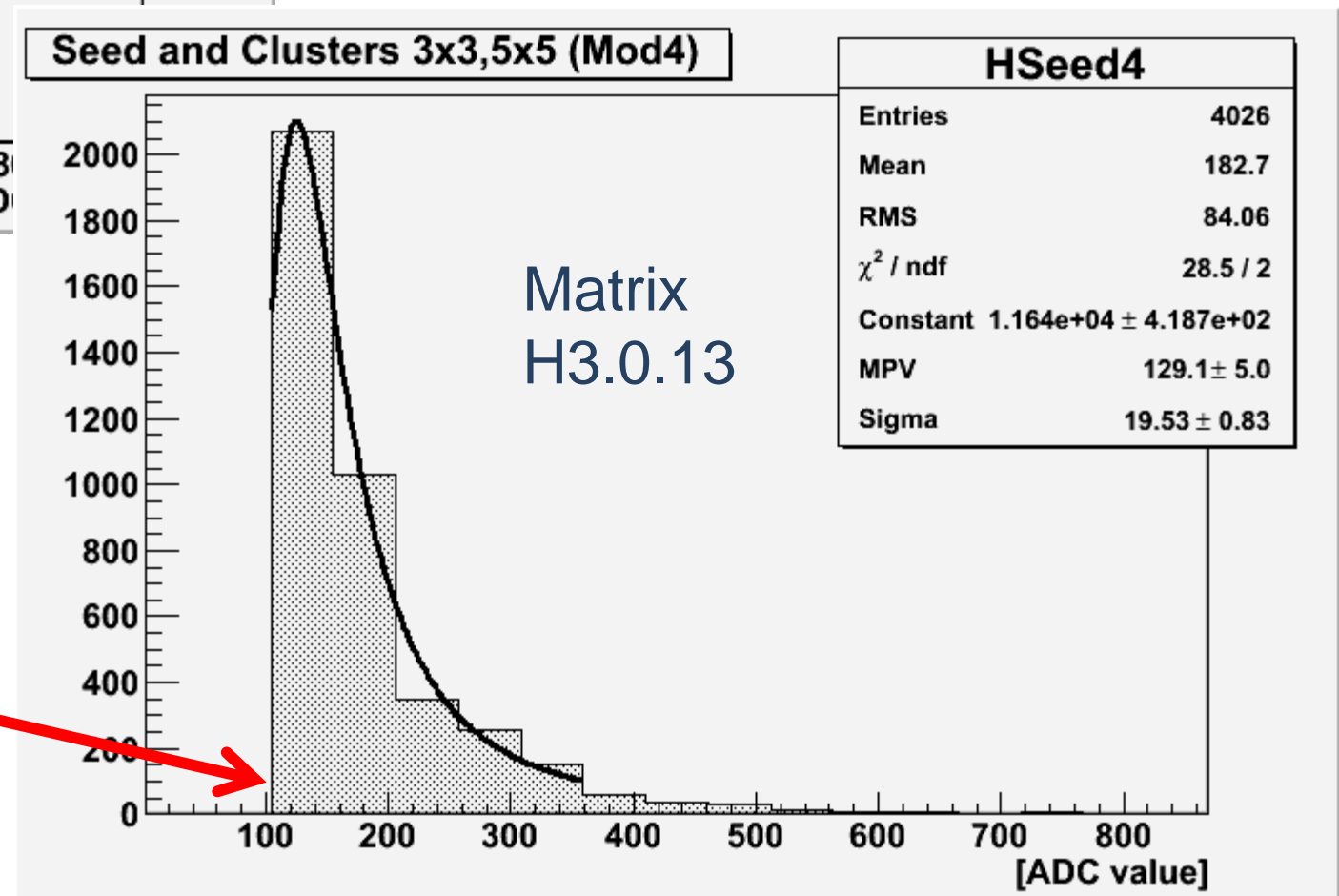
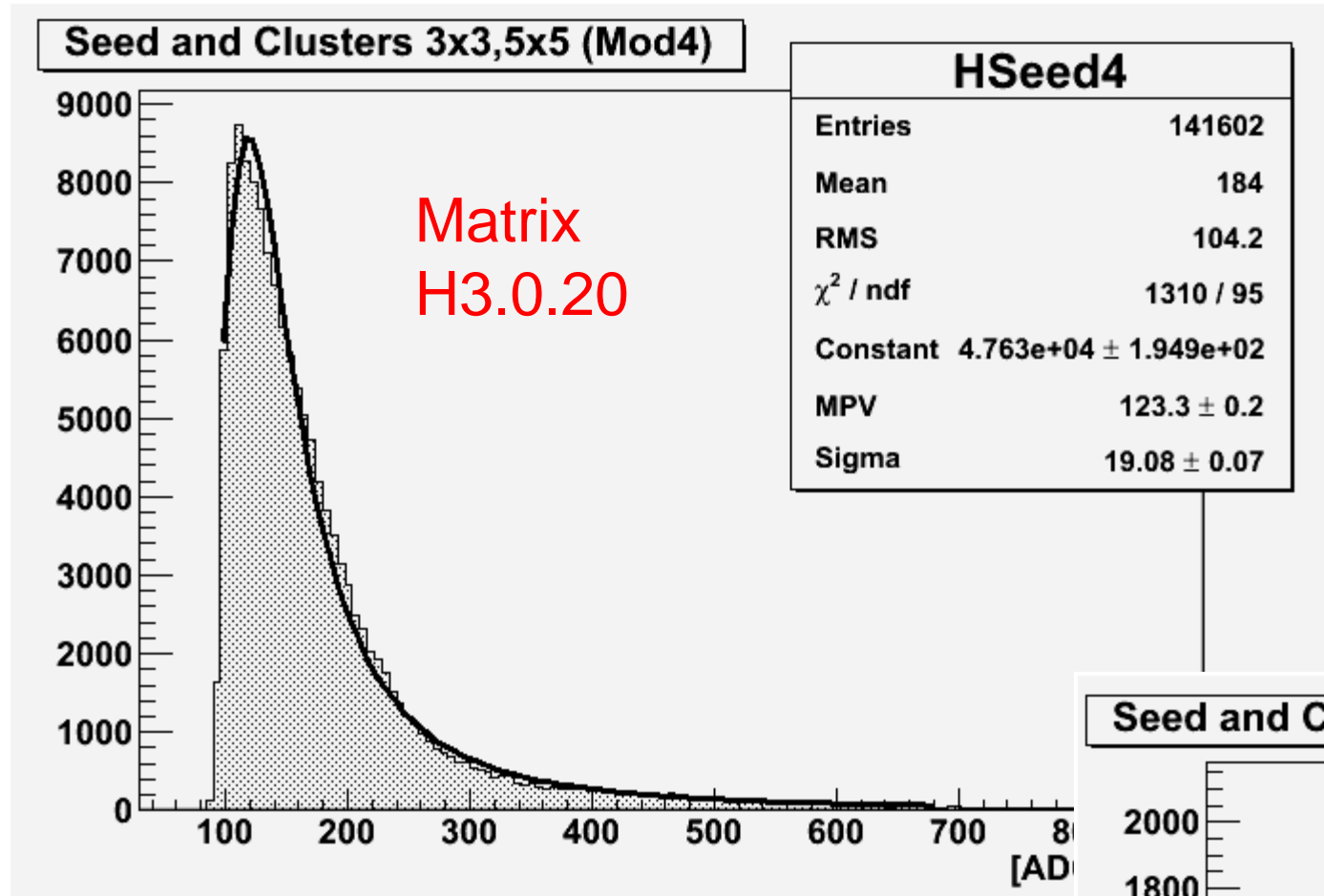


Cluster 5x5 (Mod4)(RunNo1048)

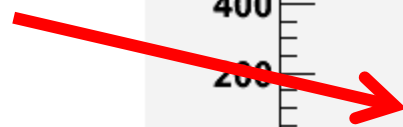


Cluster 5x5 (Mod4)(RunNo2001)

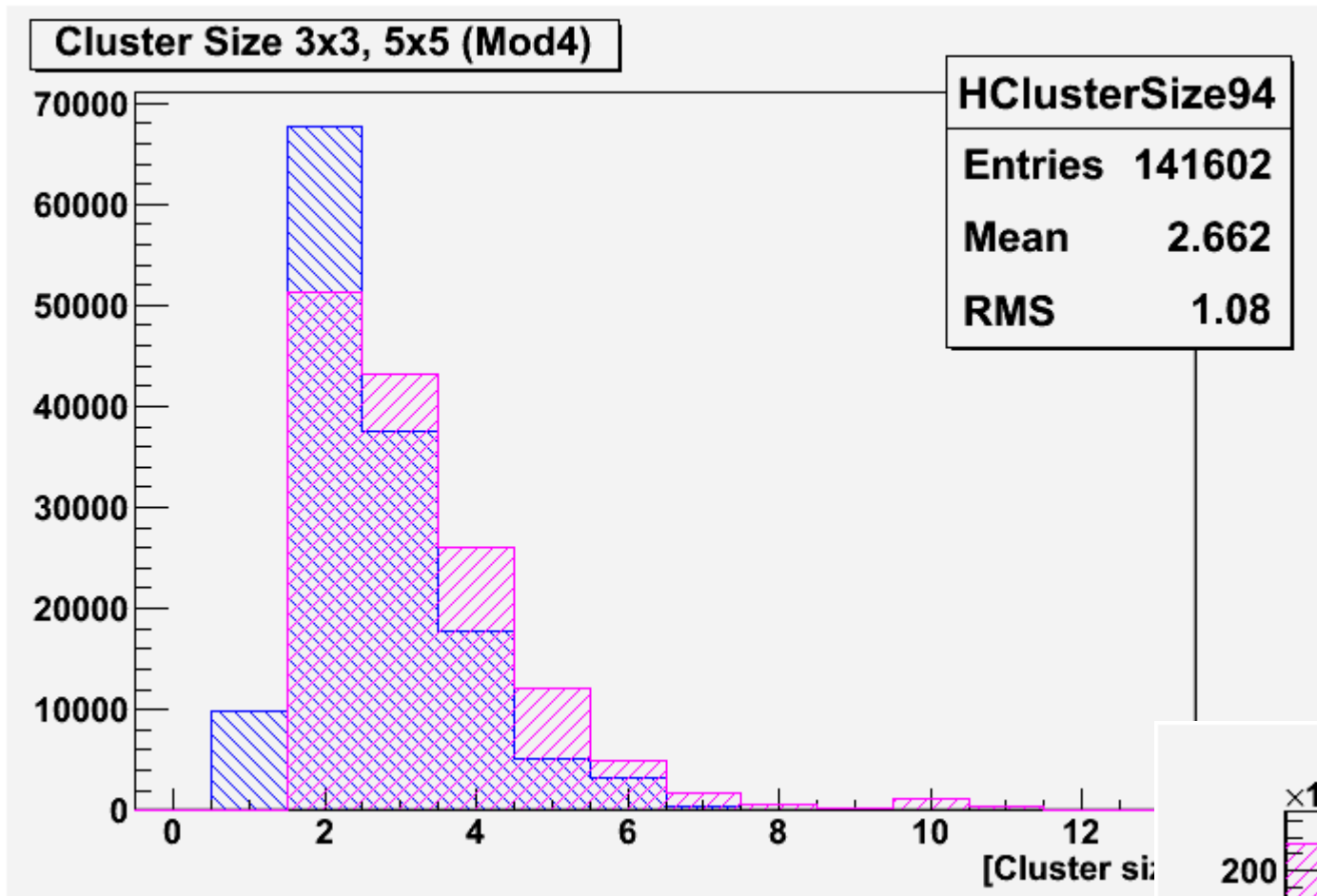




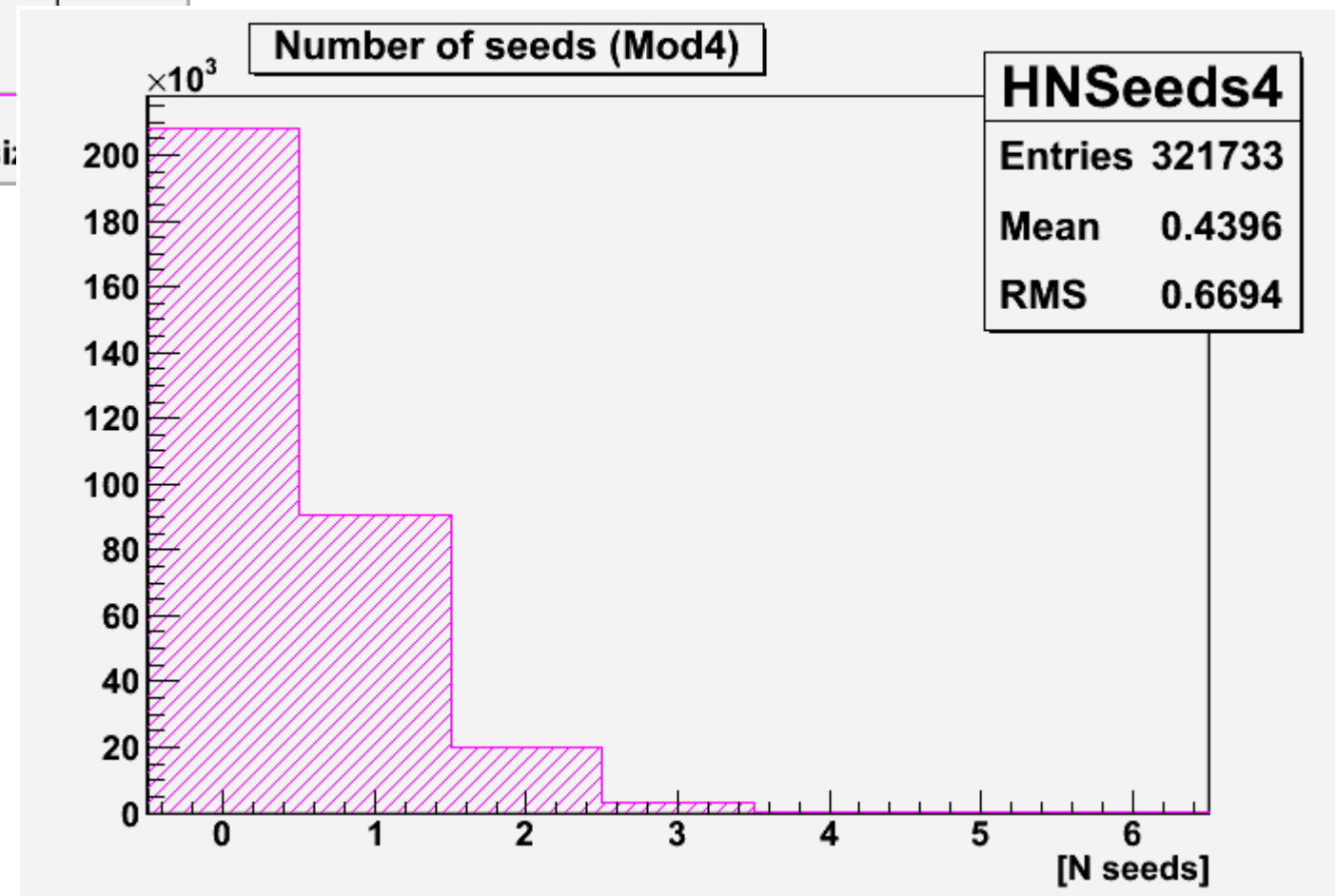
Cut more than 100 ADCes



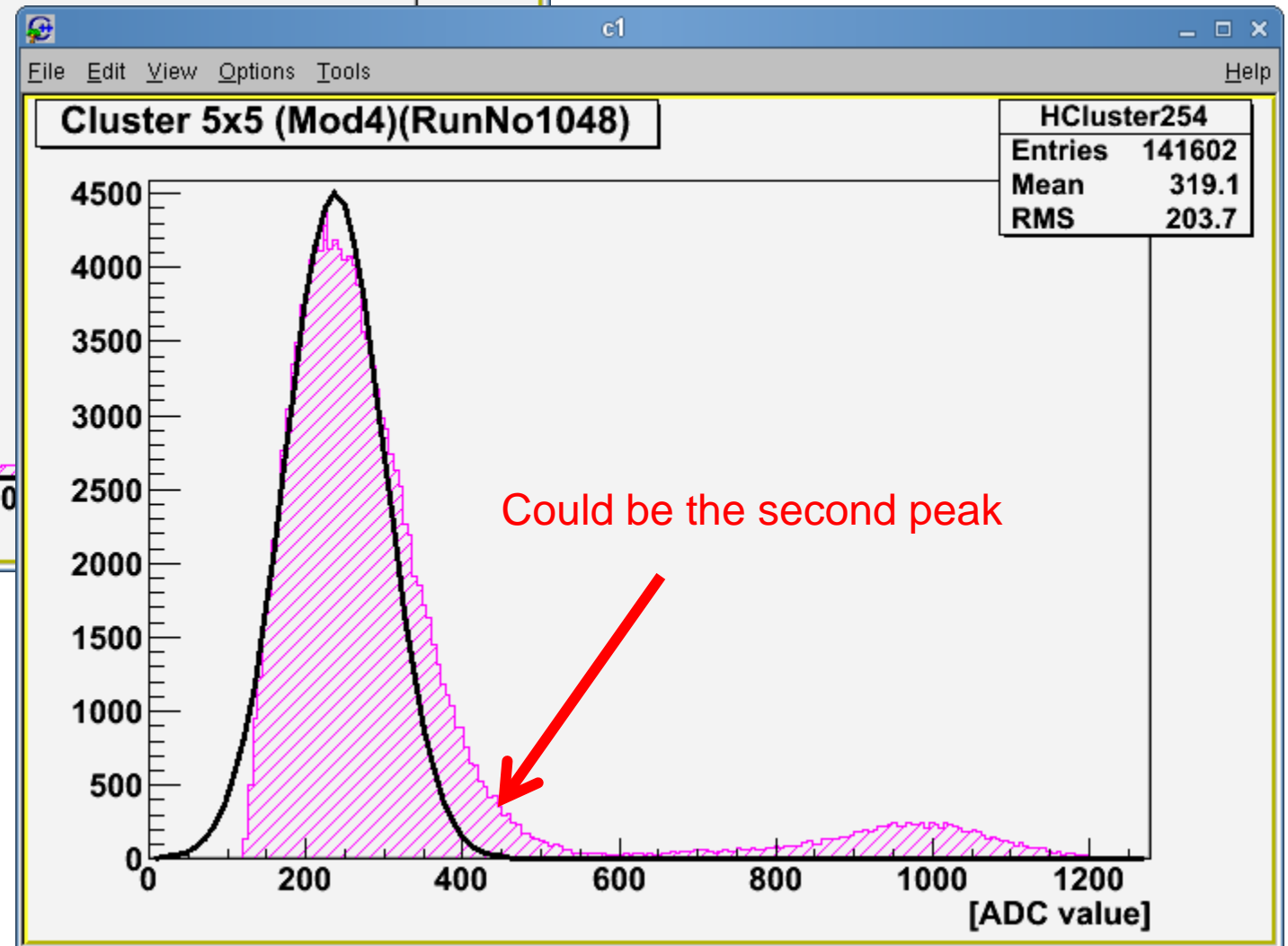
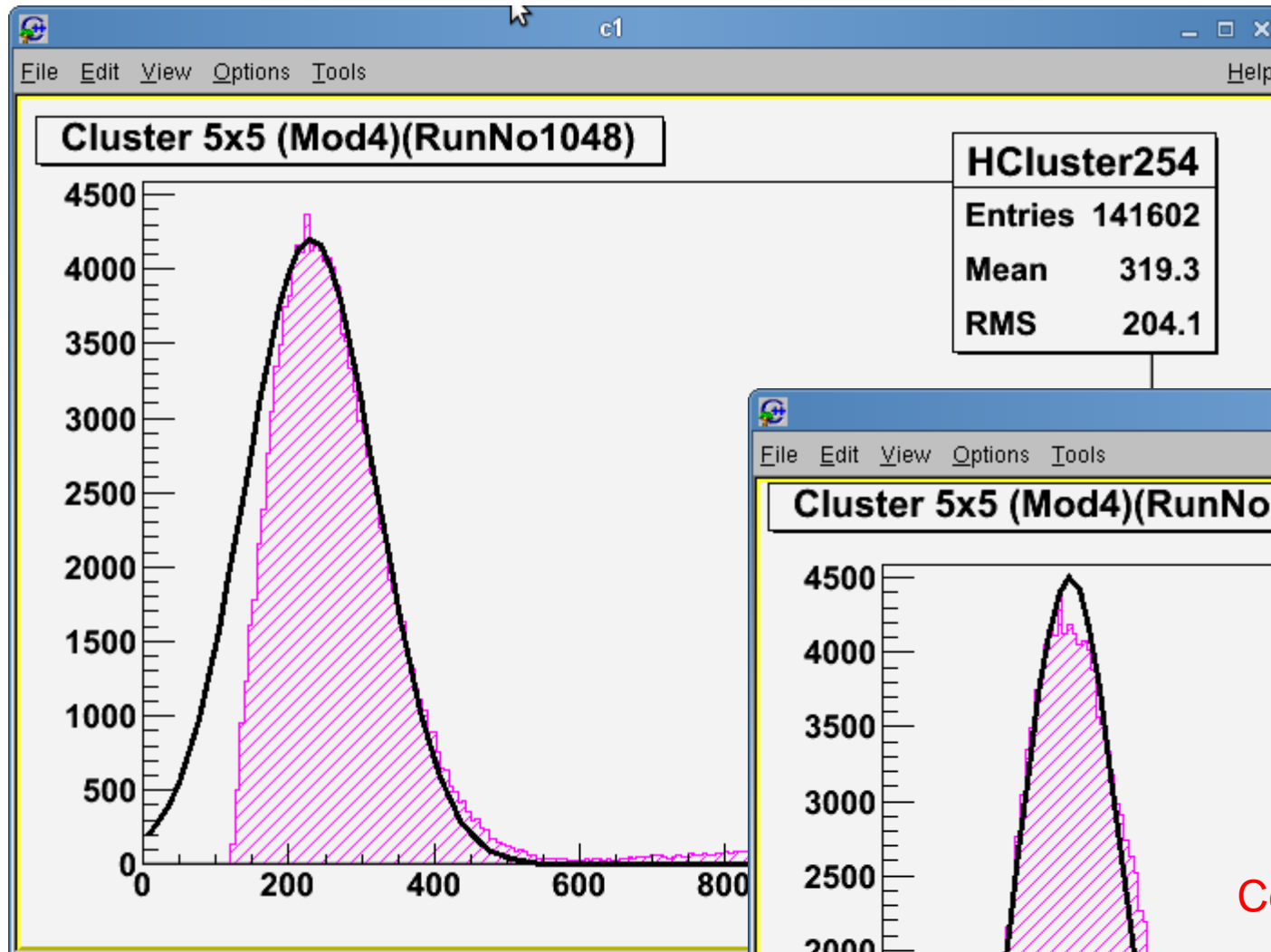
Cluster size and number of seeds



Blue – cluster 3x3
Red – cluster 5x5

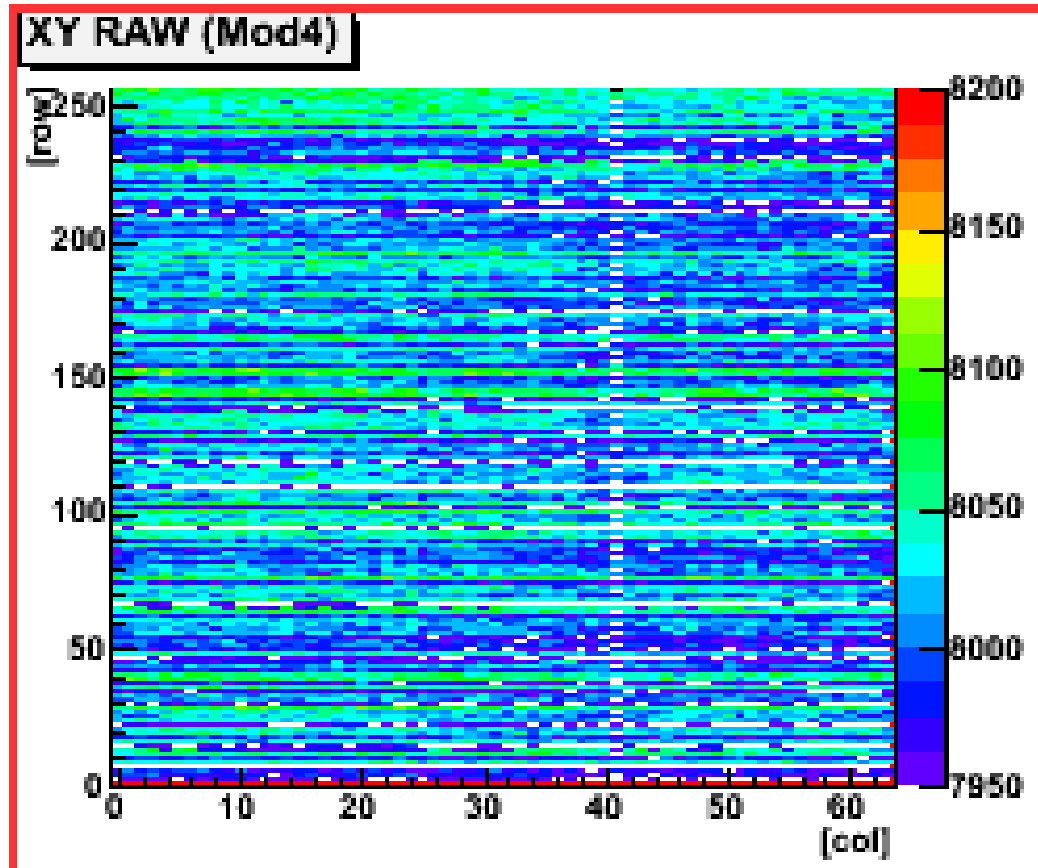


Three peaks?

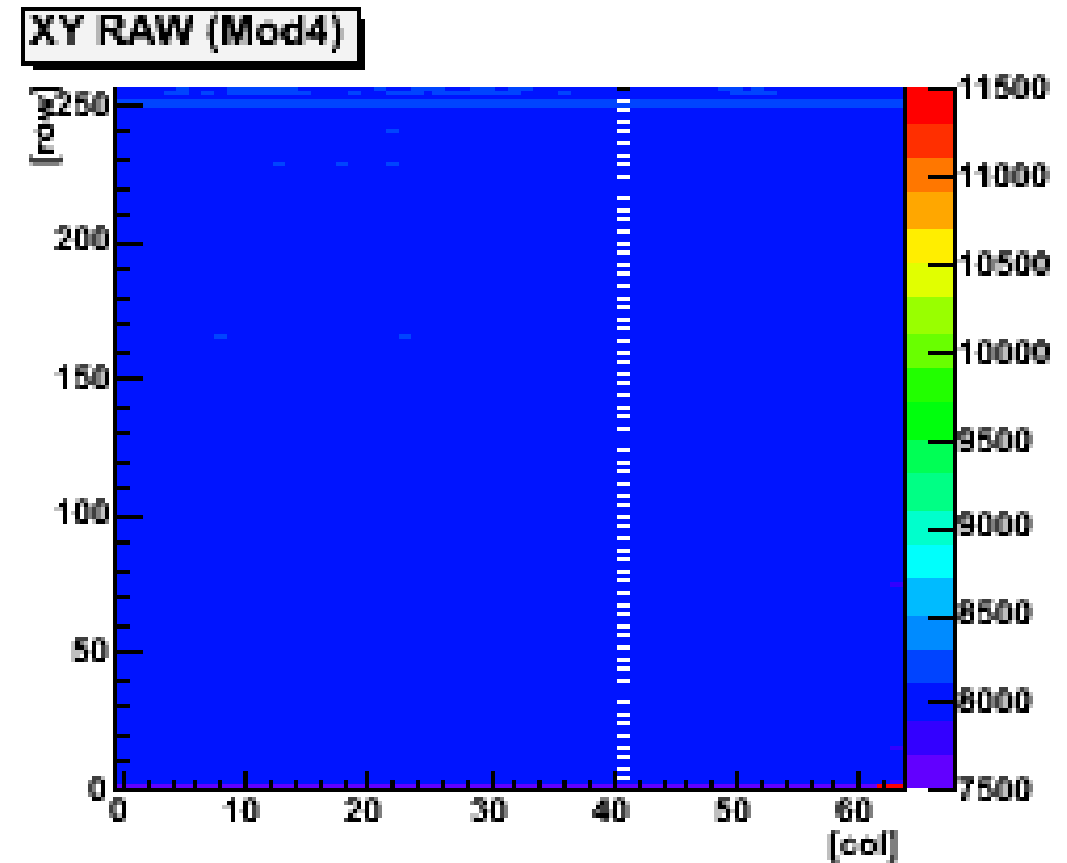


Type	Energy	Percentage
Gamma	59.5 keV	35.9
Gamma	26.3 keV	2.4
Gamma	13.9 keV	42

Real raw data



Corrected raw data



1. We have 2 working matrixes;
2. Nescessary to make the run with the covered matrix;
3. To run the laser.