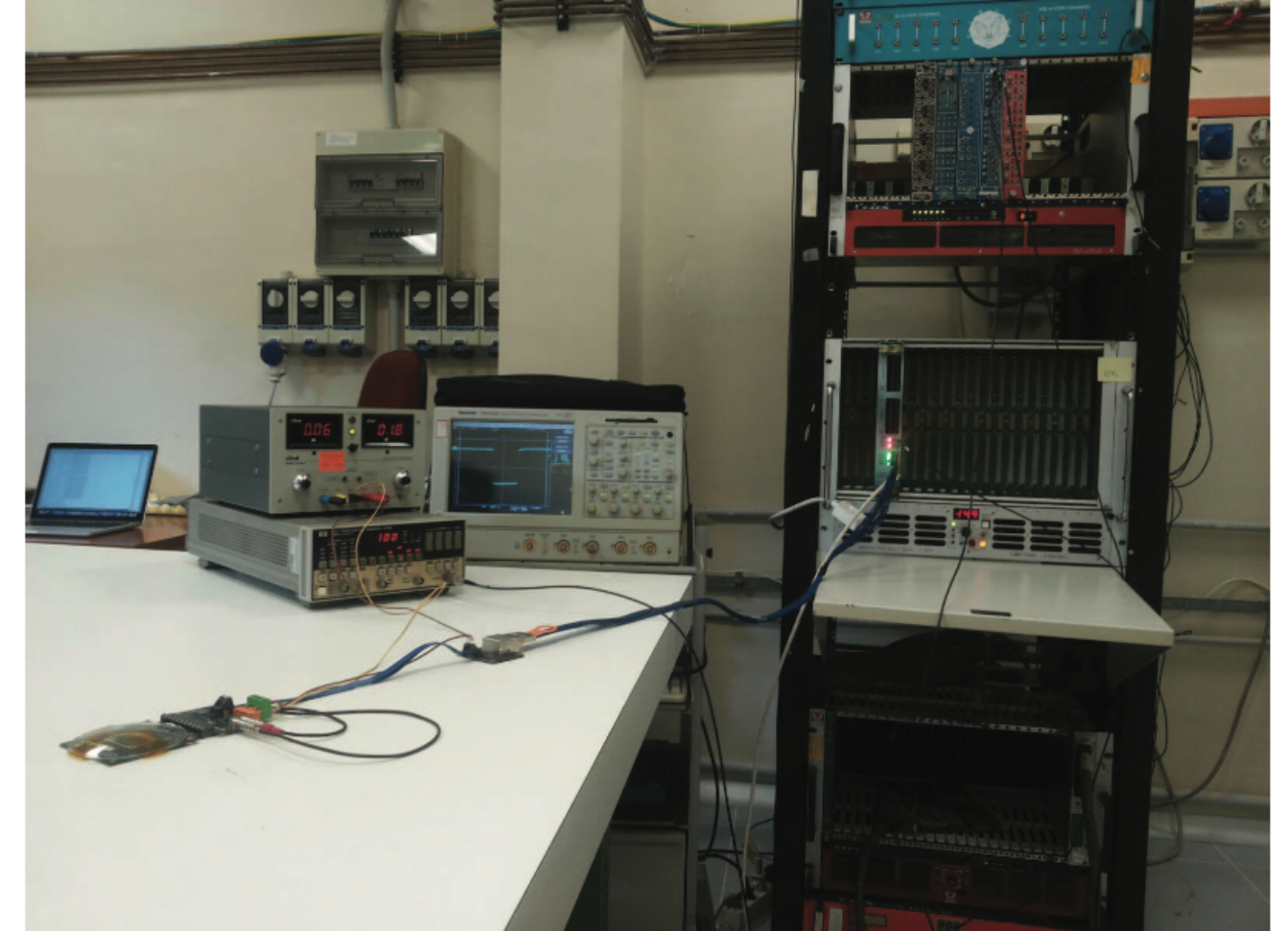
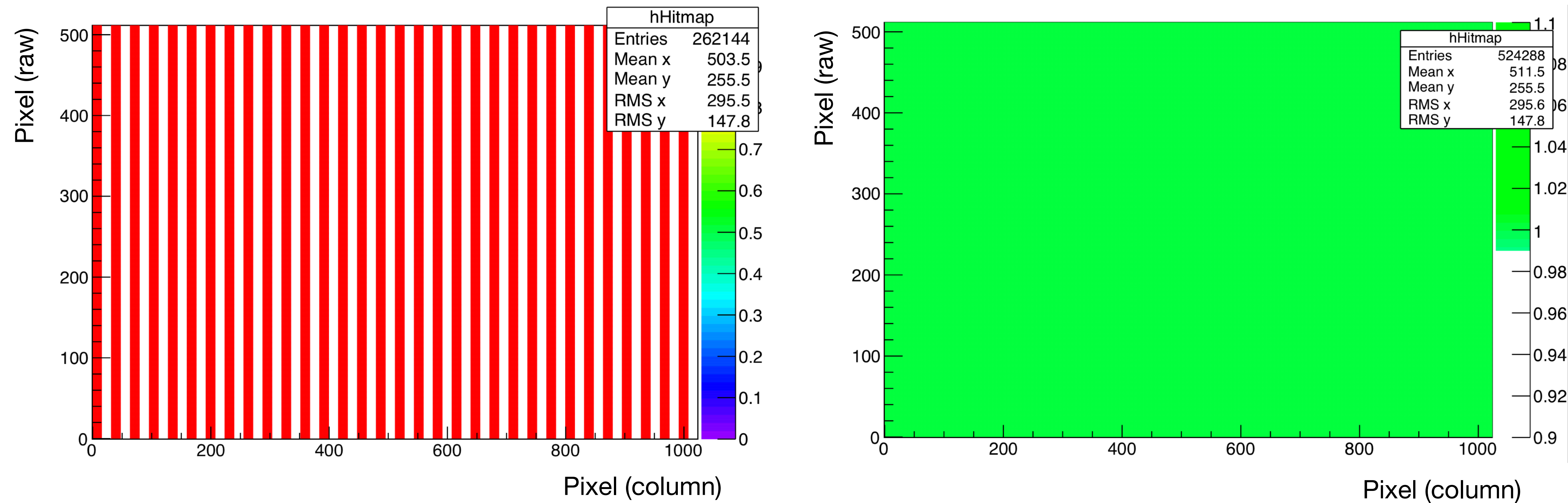


MOSAIC readout chain on 14.03.17

- Setup as before;
- Readout problems eliminated w/help of Markus;
- Newest readout software installed (permission was required);
- The setup started working as it should;
- Number of tests from the standard test program performed yesterday:
 - fifo test;
 - digital scan;
 - threshold scan;
 - noise occupancy test;

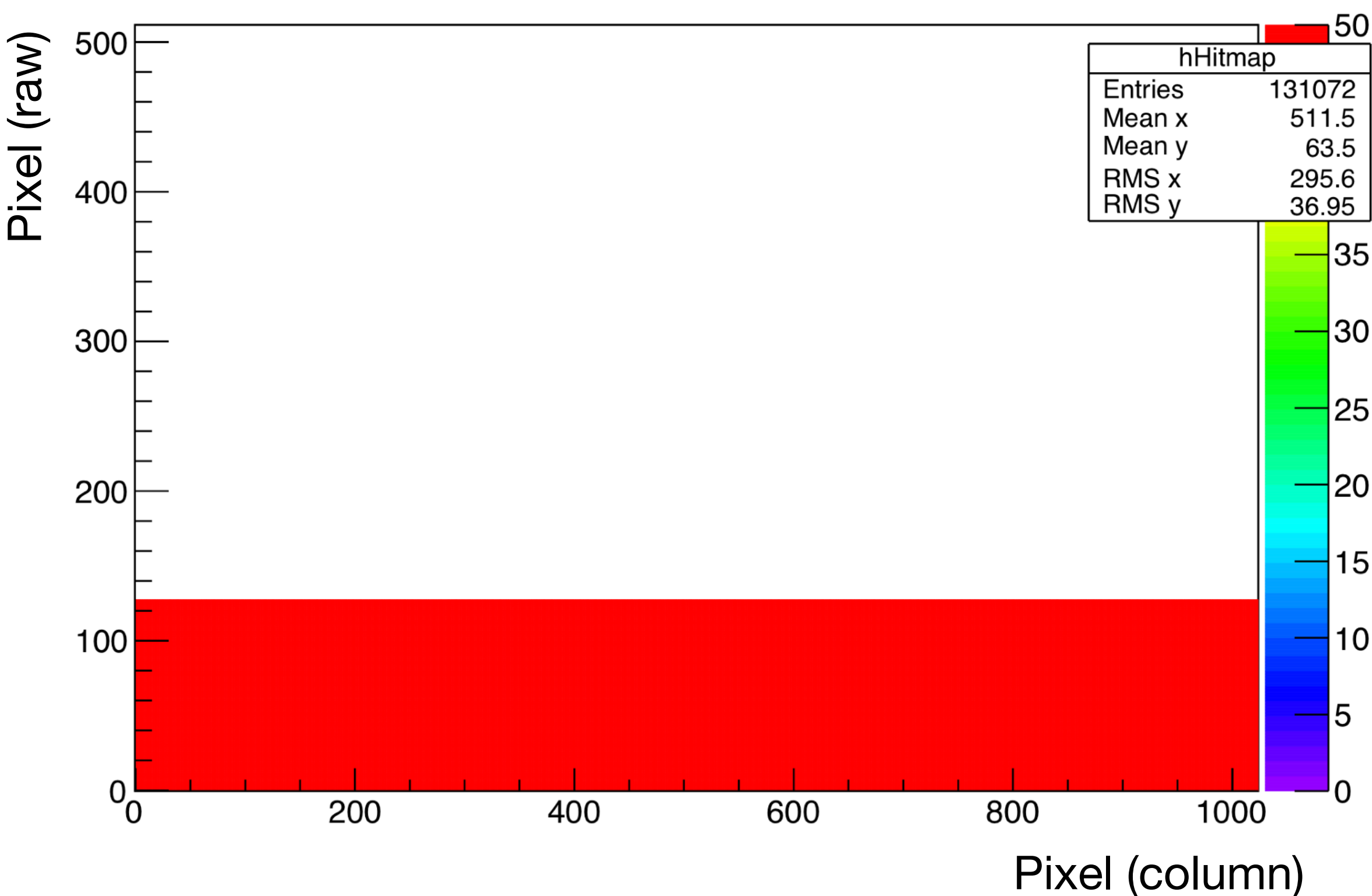
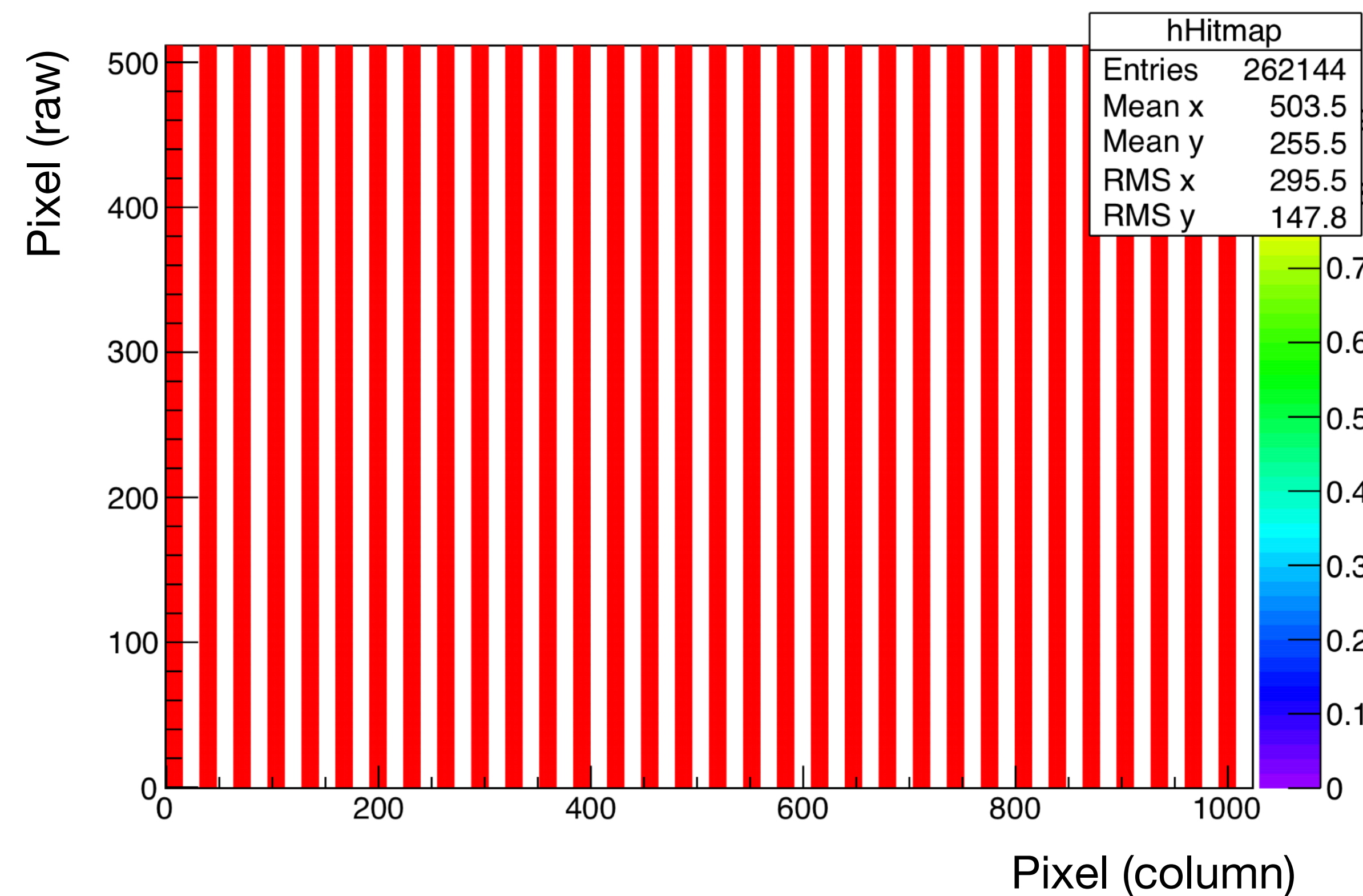


Digital scan (input parameters vary)



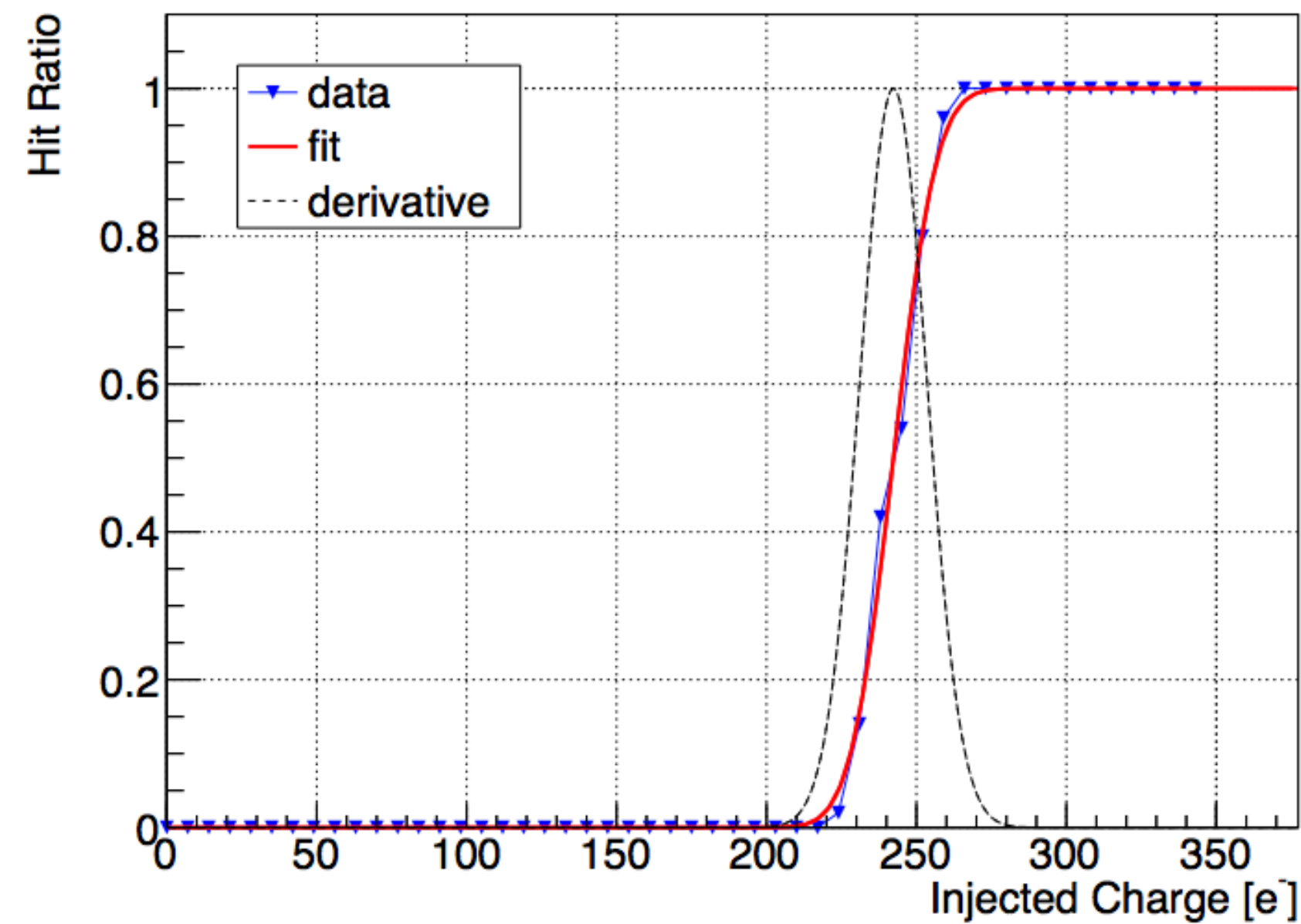
Input parameters: number of injections, number of pixels per region, number of mask stages
(to be understood)

Digital scan (input parameters vary)



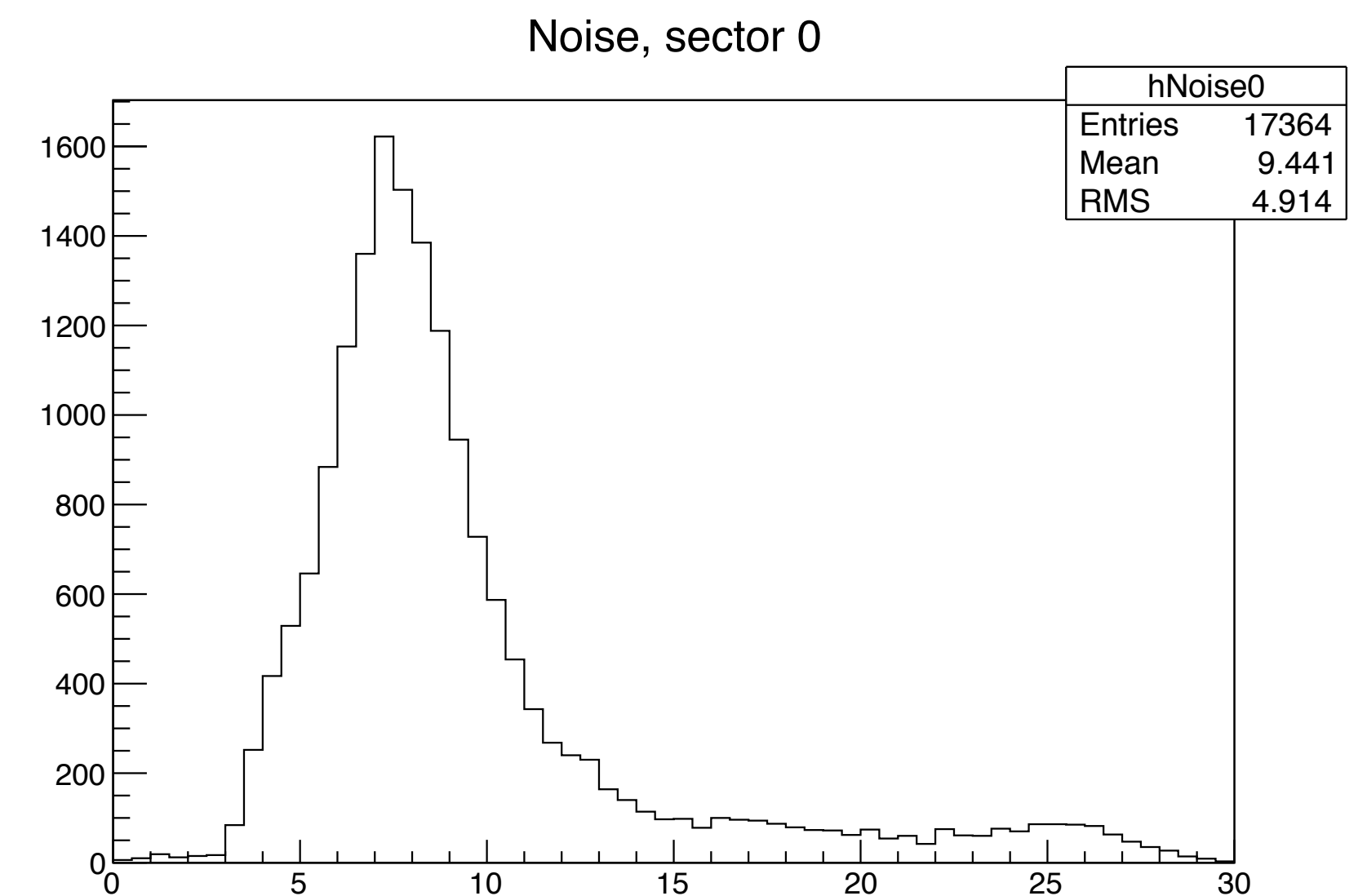
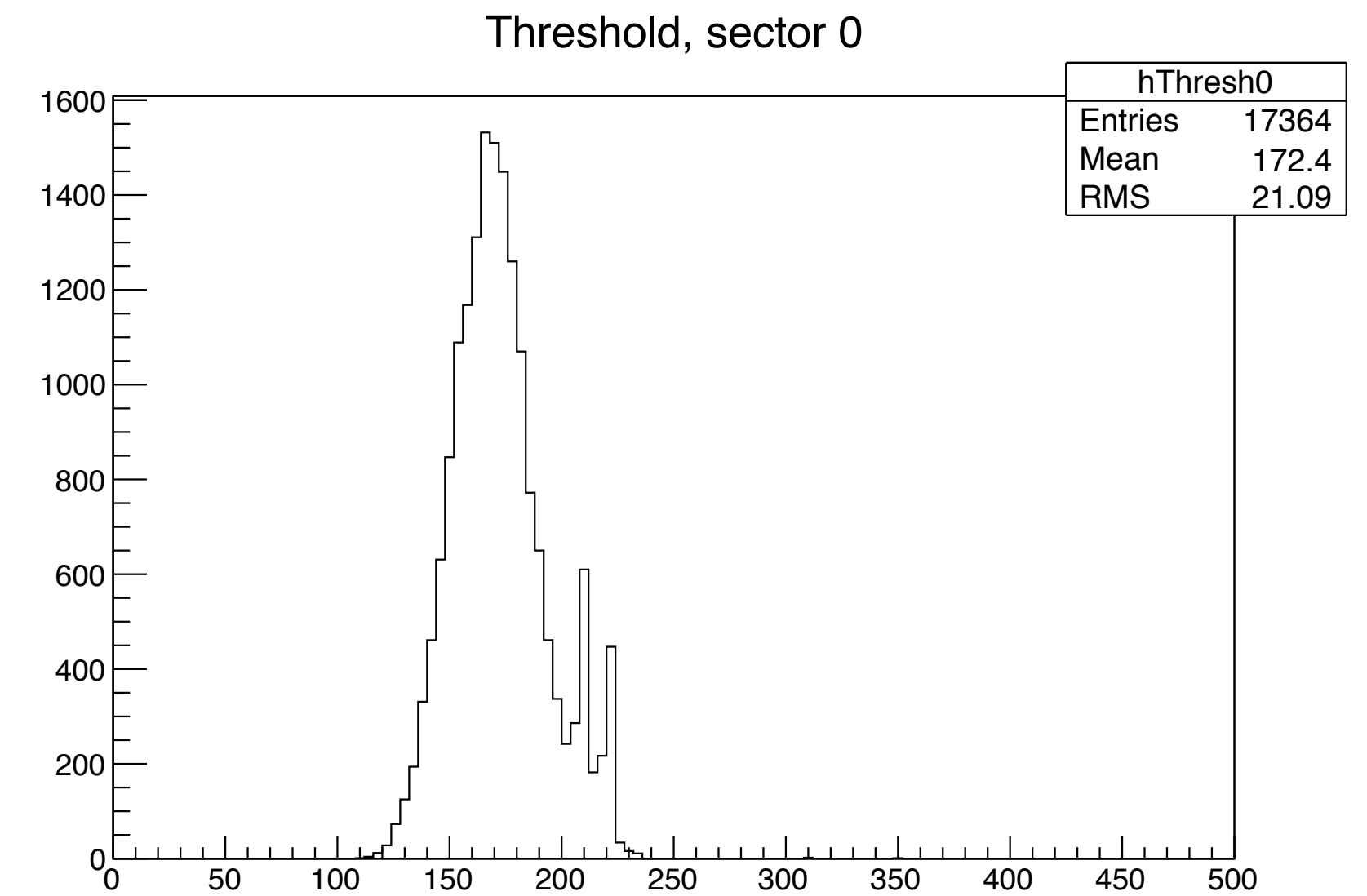
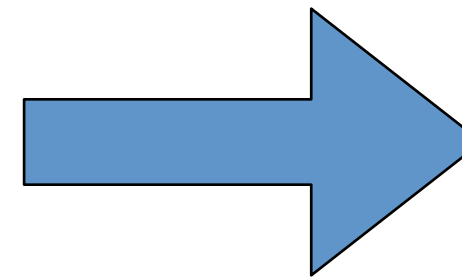
Input parameters: number of injections, number of pixels per region, number of mask stages
(to be understood)

Threshold scan

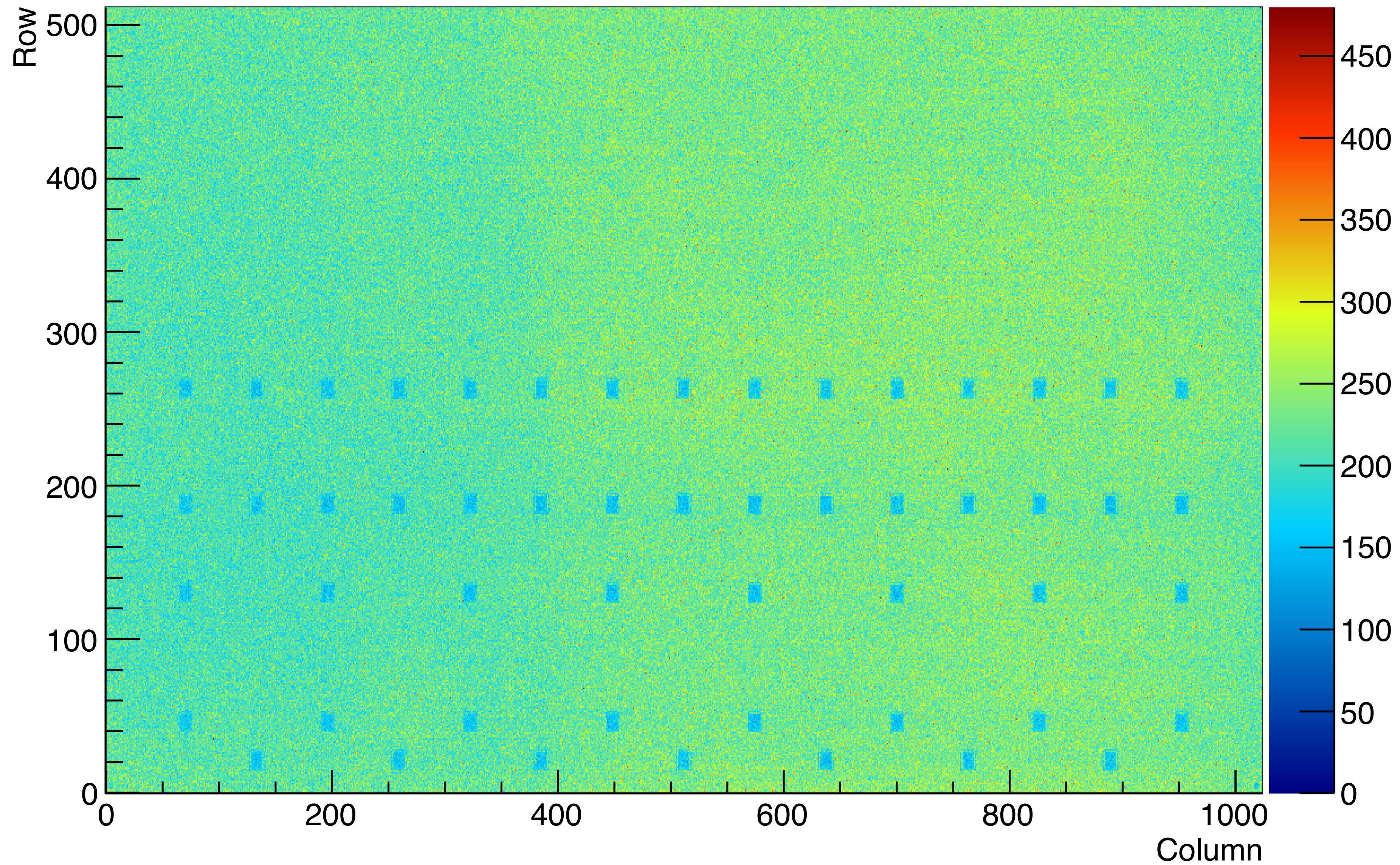


S-curve measurement (J. van Hoorne's thesis)

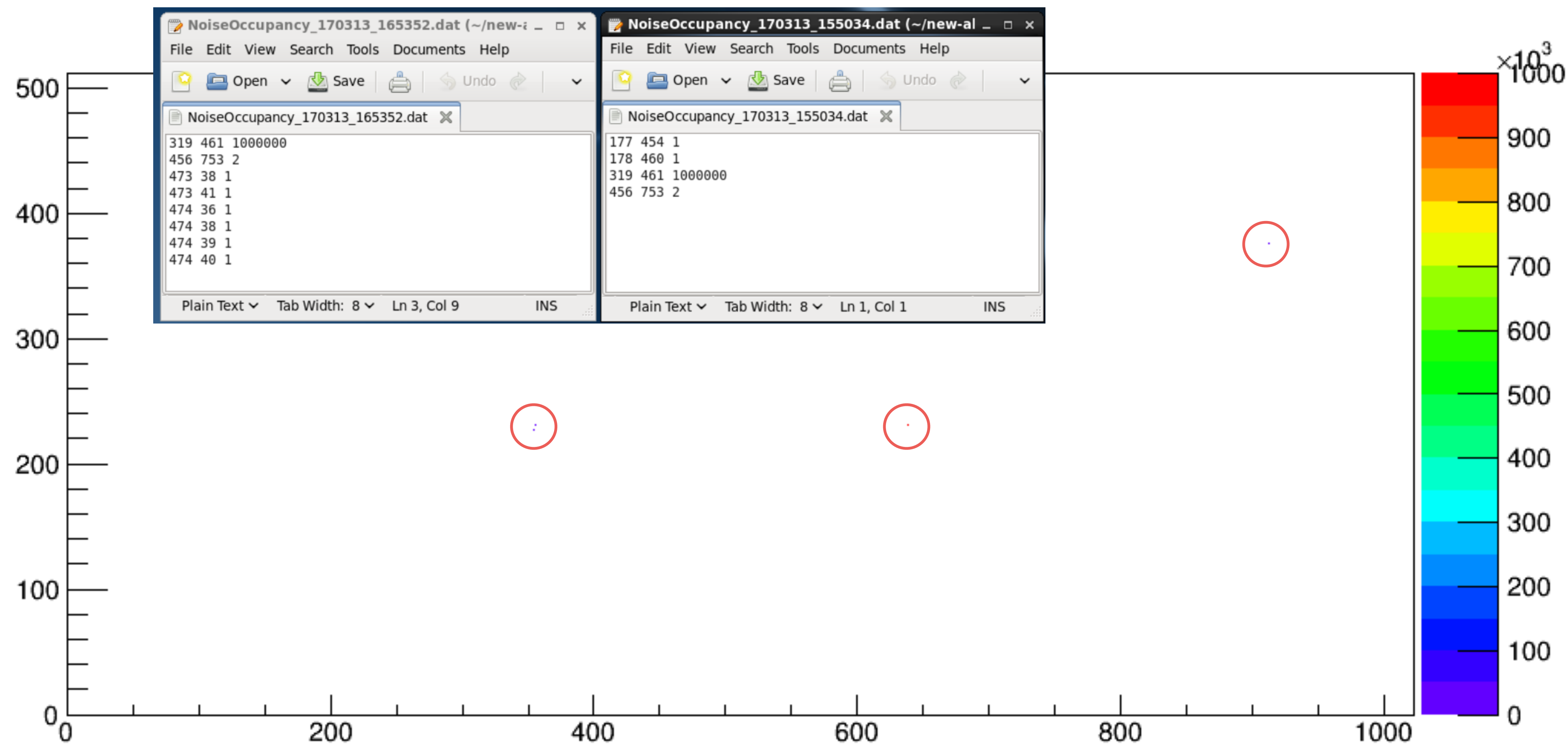
Derives Q_{thr} - the charge threshold, when the pixel registers a hit with a 50% probability



Threshold map



Noise occupancy map



“the rate at which noise produces a response of the pixel front-end which exceeds the selected threshold (fake hit)”

To do

- For the beam test: readout with external trigger required, data decoding;
- Eleuterio: next beam test on 10th of April;
- Digital scan + Noise occupancy details to be understood;
- Source test?