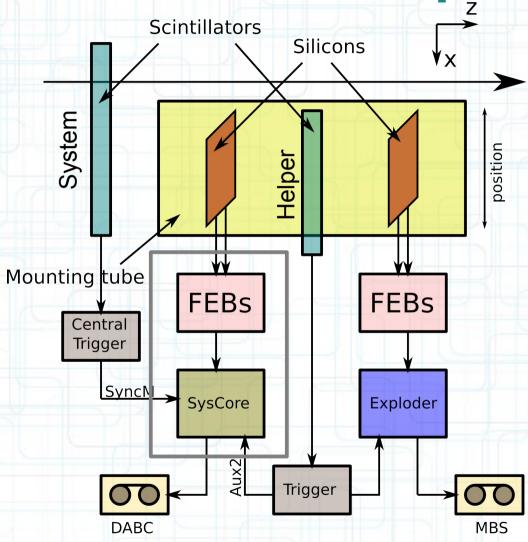


Reminder from last meeting Experimental setup ADC cuts. Time correlation cuts

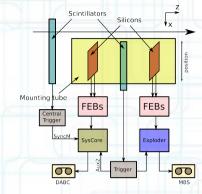
Beam line setup

3GeV proton beam



Reminder from last meeting

Experimental setup

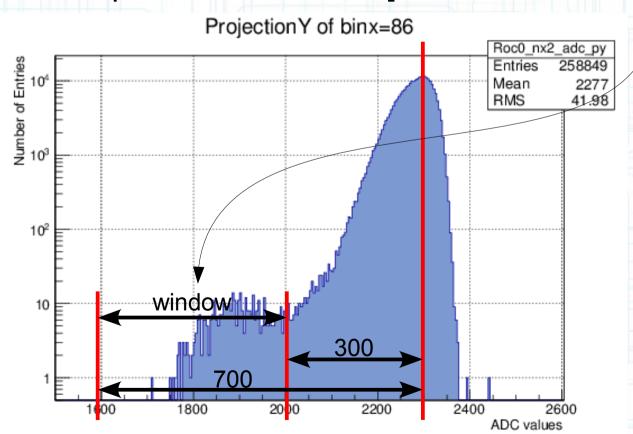


ADC cuts

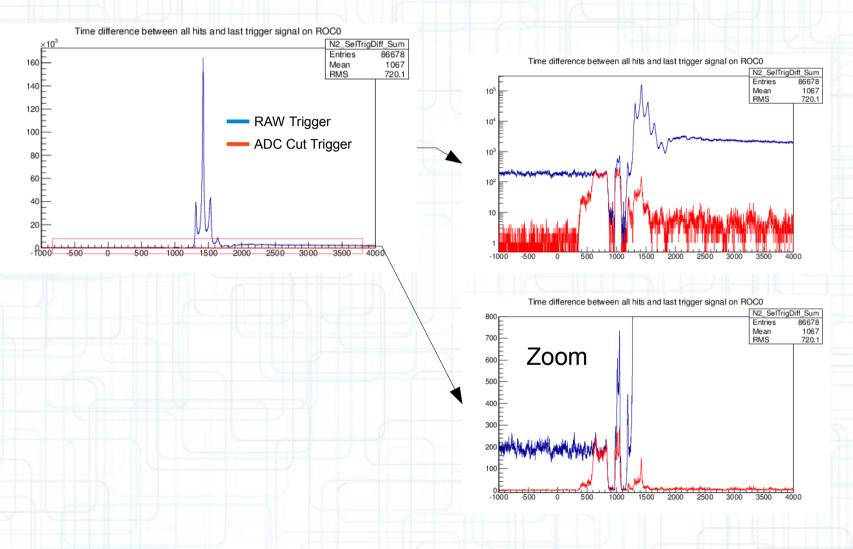
Time correlation cuts

ADC spectrum cuts

- File 0227 (Saturday, 26.11)
- Trigger: Aux2
- Cut on ADC spectrum in window [noise-700; noise-300]



ADC spectrum cuts



Why no correlation with dominating peak?

Reminder from last meeting

Experimental setup

Scintillators Silicons

Mounting tube

FEBS

FEBS

FEBS

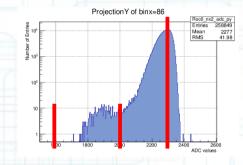
SyncM

SysCore

Exploder

MBS

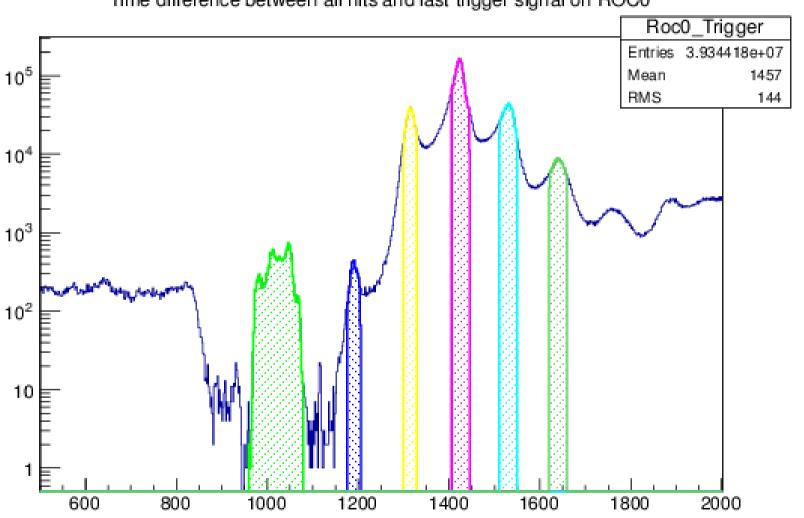
ADC cuts



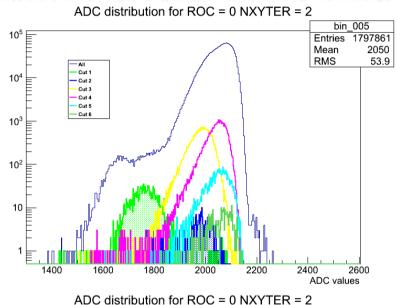
Time correlation cuts

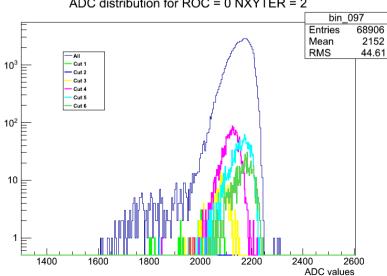
Trigger cuts

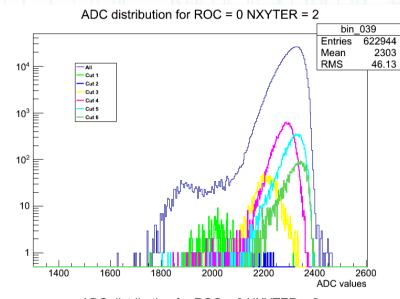
Time difference between all hits and last trigger signal on ROC0

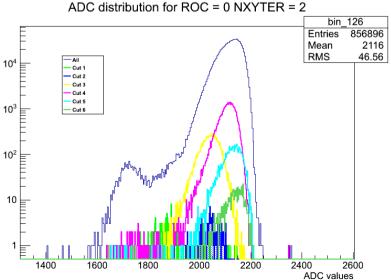


Trigger cuts - ADC





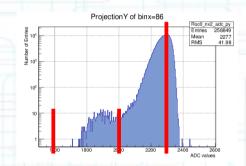




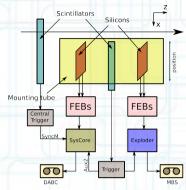
Reminder from last meeting

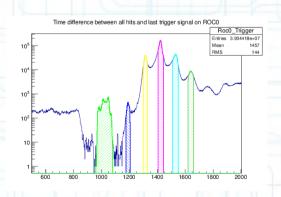
Experimental setup

ADC cuts



Time correlation cuts





Plan for today

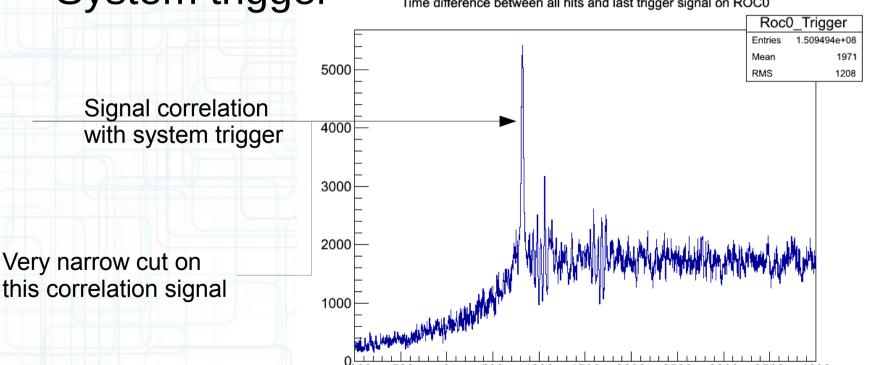
 Comparison of ADC spectrum of signal and noise – peak position determination for data with measured noise spectrum.

 Hit multiplicity (occupancy) vs channel for the old data (file 0227)...

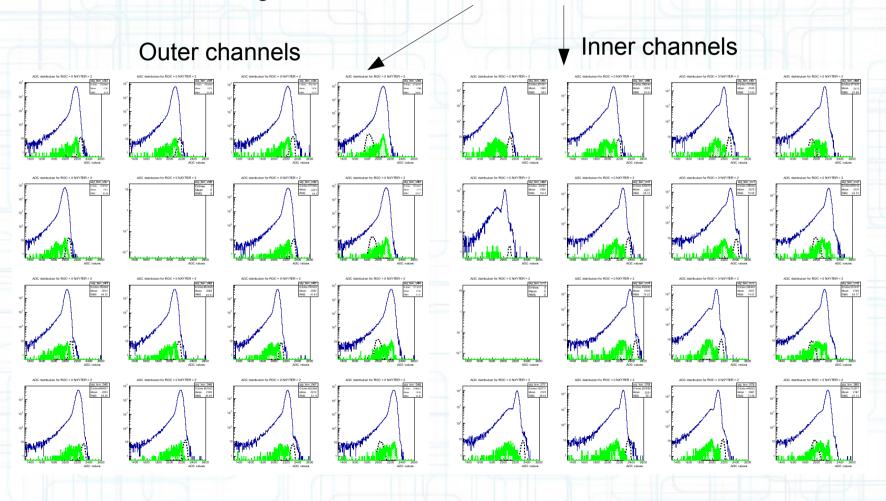
...and for the new data (0212-0225)

- Day 26/11, data: 0189-0190, noise: 0180
- Detector in beam?

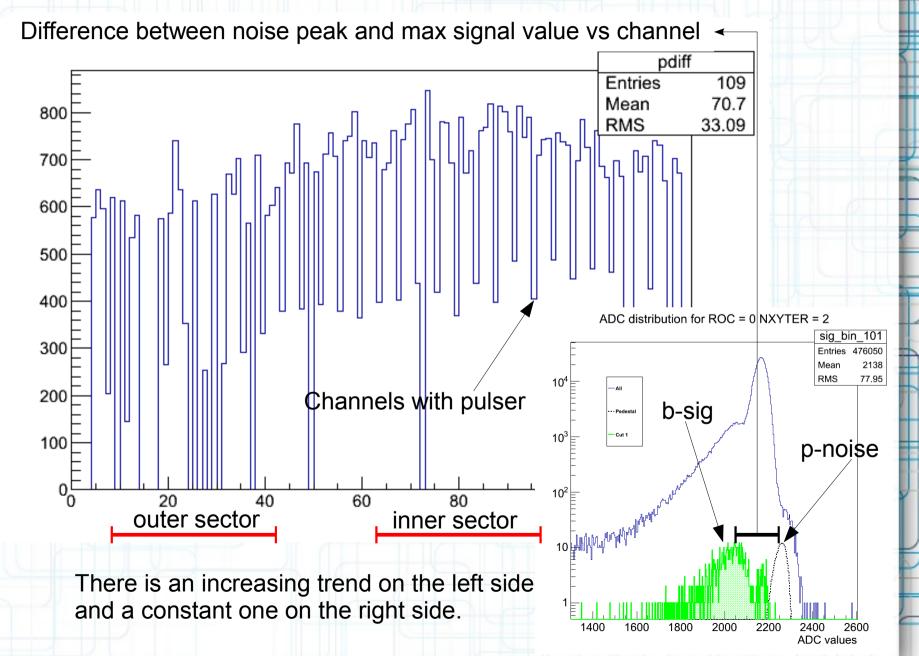




This is general trend for outer and inner section

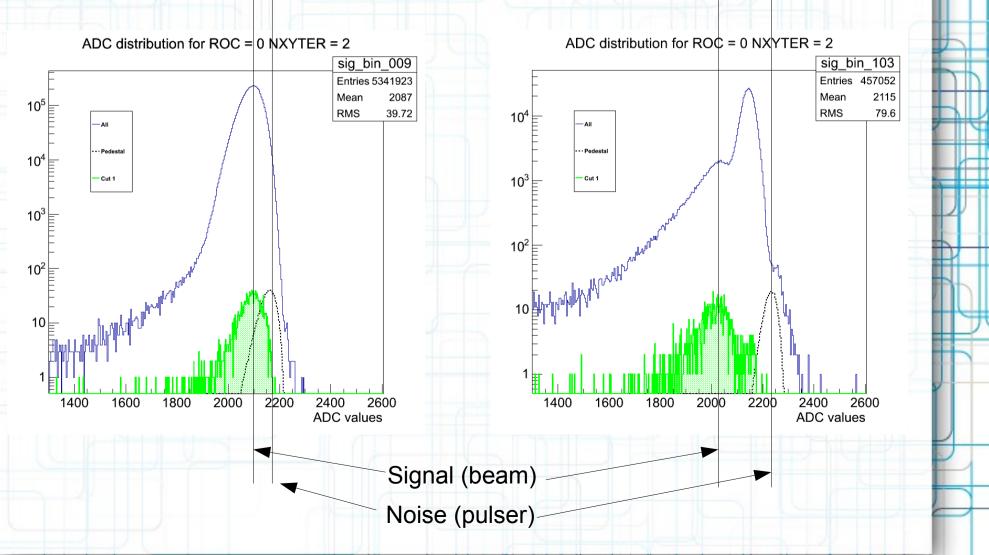


Green peak position changes – let's plot it.

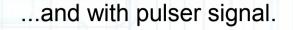


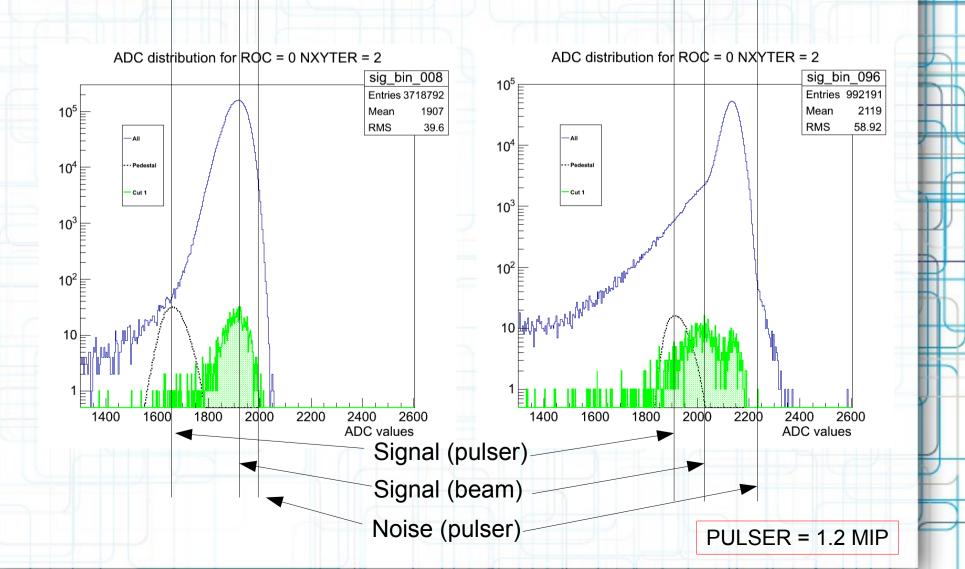
ADC spectrum overlap - noise

Let's compare peak positions with "pulser" noise...



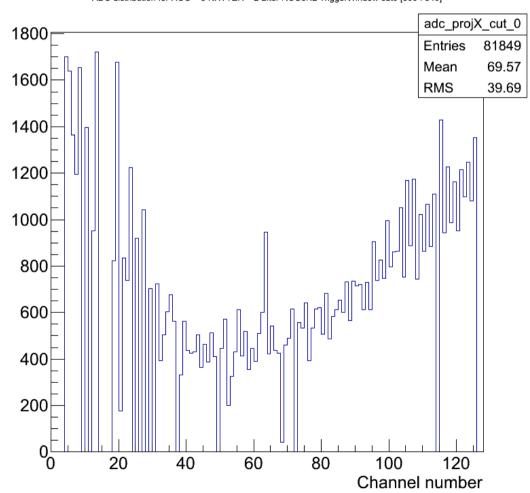
ADC spectrum overlap - pulser





Hit multiplicity

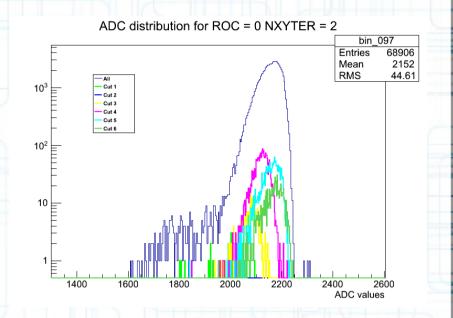


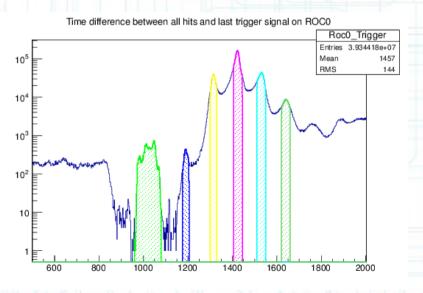


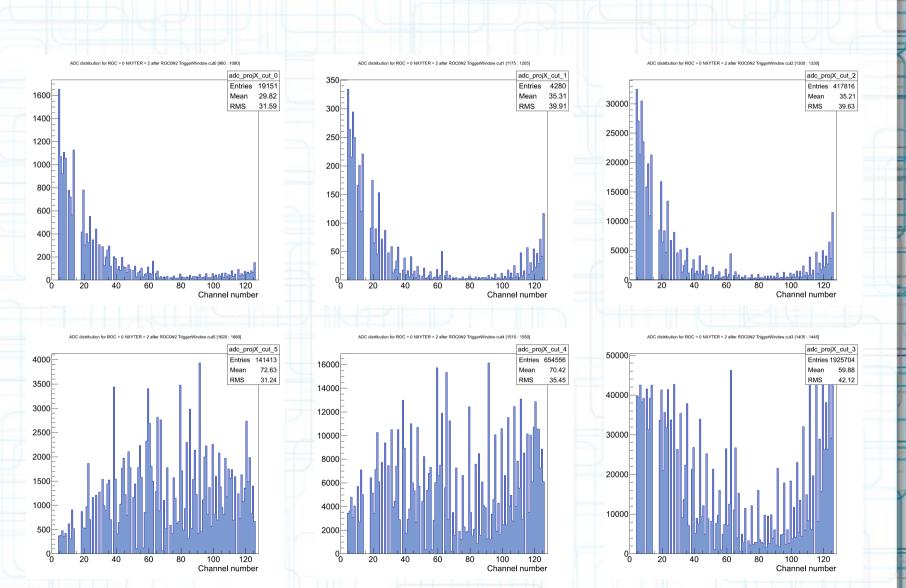
Hit multiplicity for cut on time correlated signals.

Trigger correlation cuts

- File 0227
- Private trigger →
 correlation with
 detector geometry
 expected





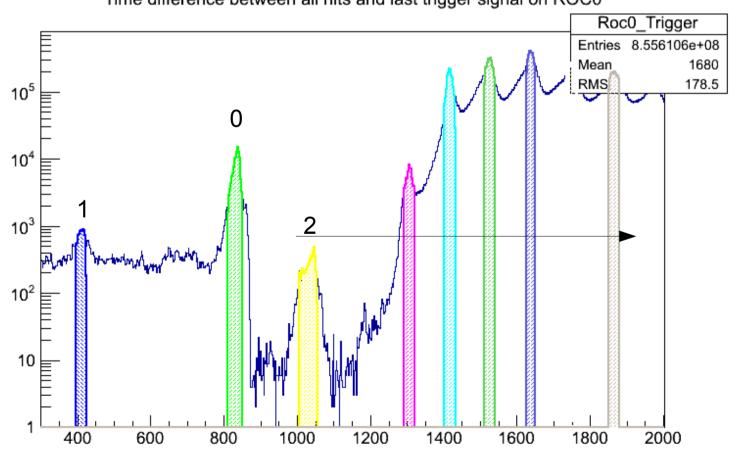


No good conclusions can be drawn here.

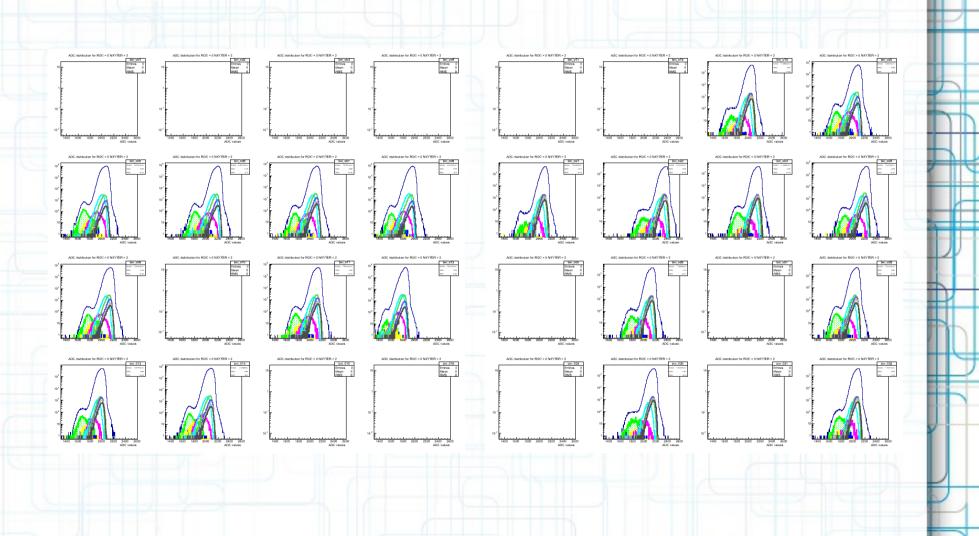
Trigger correlation cuts

- Detector not in the beam
- "Helper" trigger, files 0212-0225

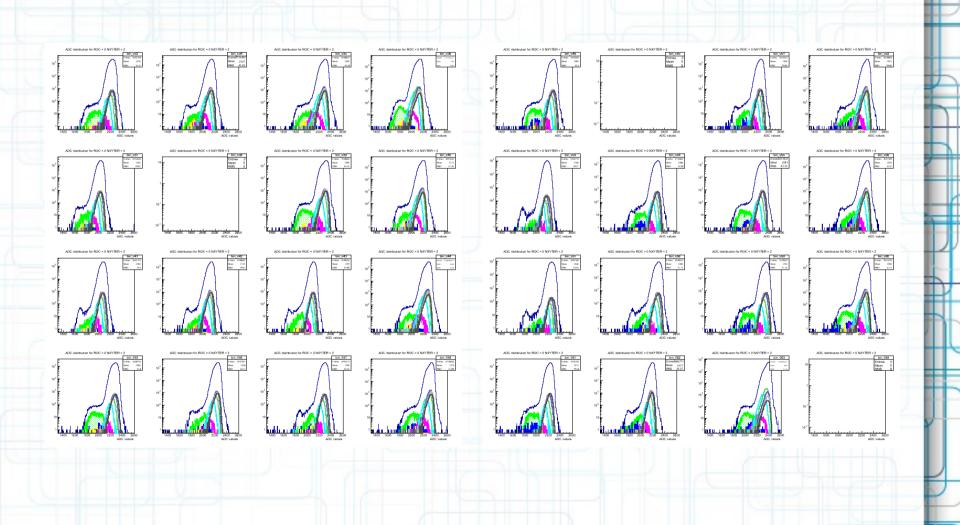
Time difference between all hits and last trigger signal on ROC0



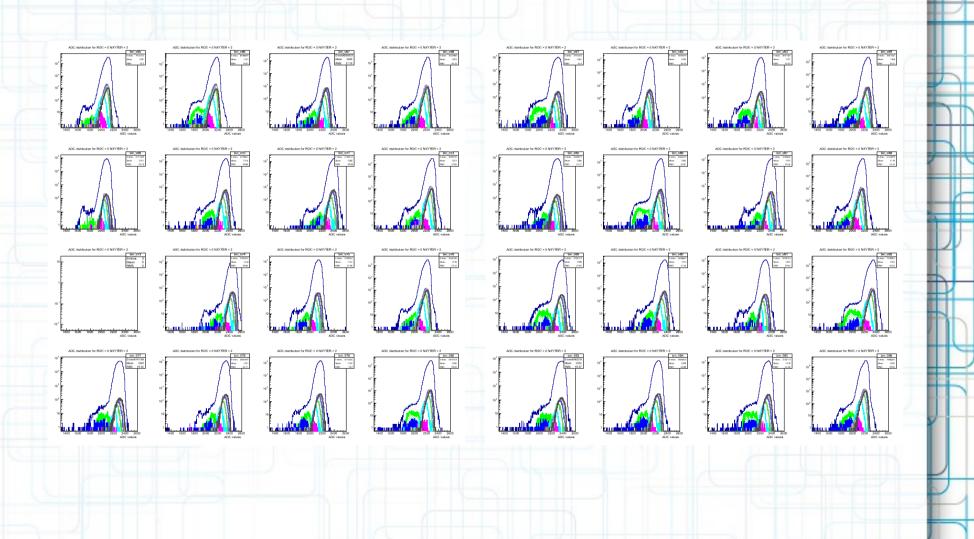
ADC spectrum, 1-32



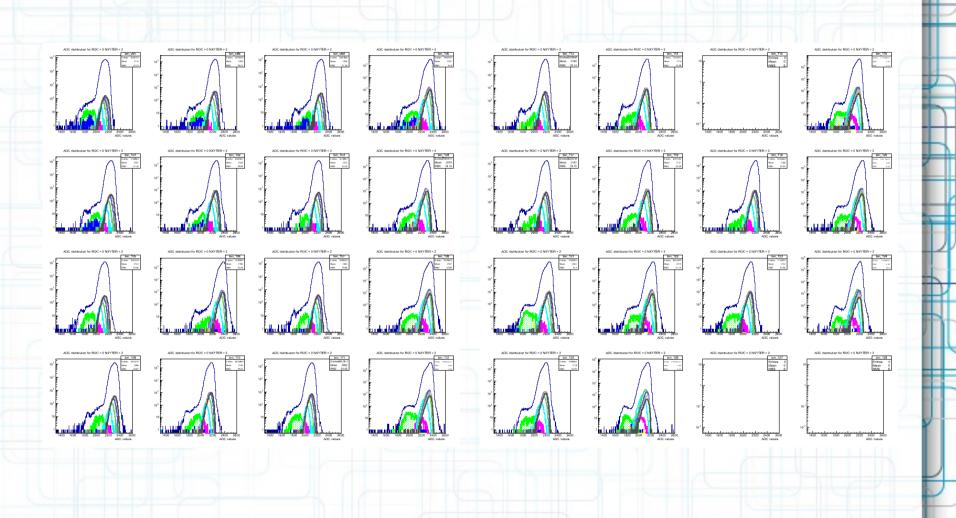
ADC spectrum, 33-64



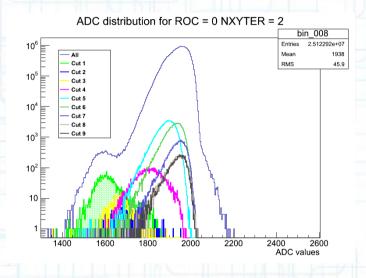
ADC spectrum, 65-96

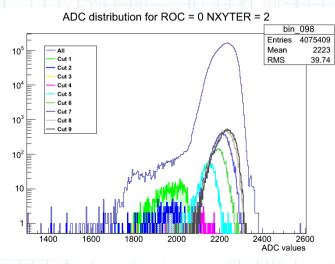


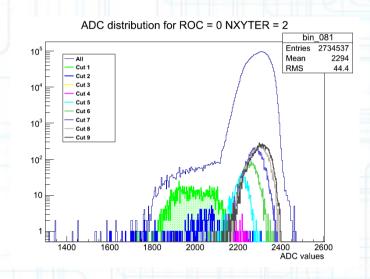
ADC spectrum, 97-128

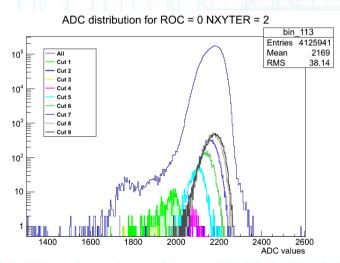


ADC spectrum

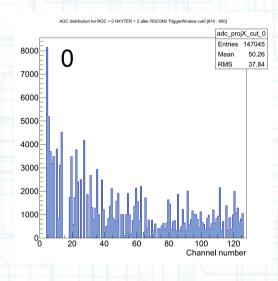


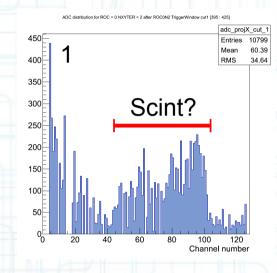


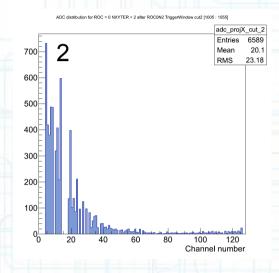


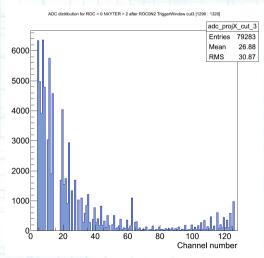


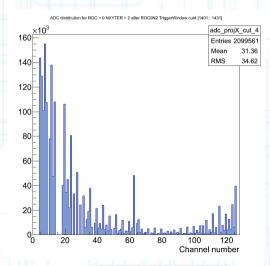
Hit multiplicity

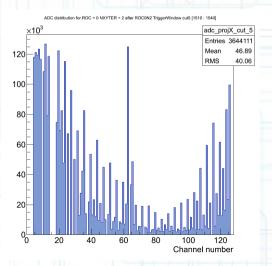






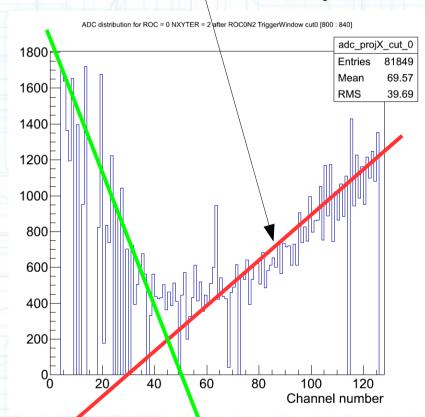




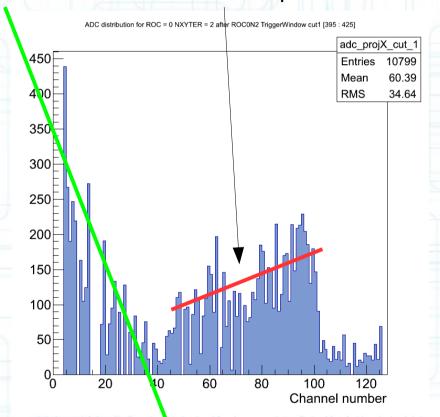


Comparison

~1/r beam halo intensity?



Scintillator shape?



Left-side noise trend