CROSS-TALK STUDIES

Overview

December meeting – Version 3.0:

- Digital feedback solved
- No need to further optimize the digital swing
- No need to further tune the CTEST impedance

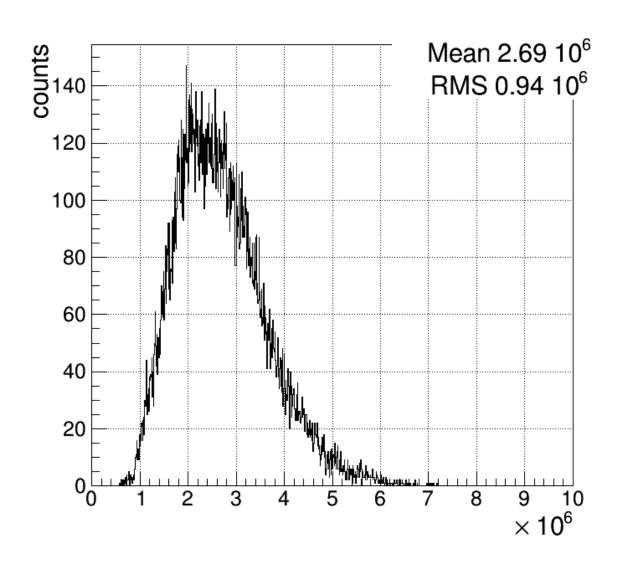
To be done:

- ADC glitches → wrote to Omega producer
- Systematic study of cross-talk of input lines
- Response to laser
- Characterization
 - gain vs threshold
 - hit time vs duration
 - TDC vs ADC

MAPMT Gain

Average MAPMT gain ~ 2.7 10⁶

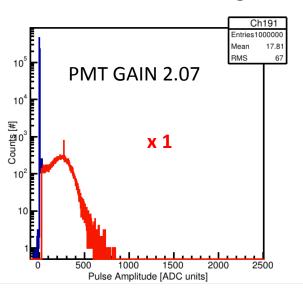
corresponds to SPE ~ 400 fC

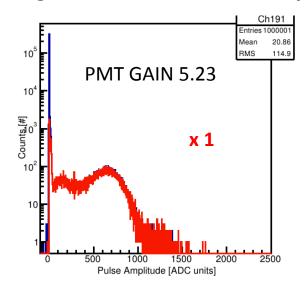


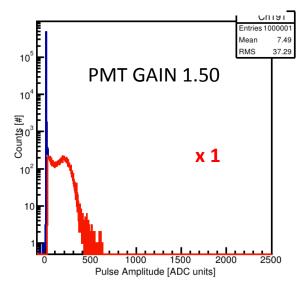
MAPMT Gain



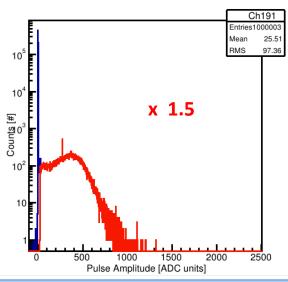
corresponds to SPE ~ 400 fC

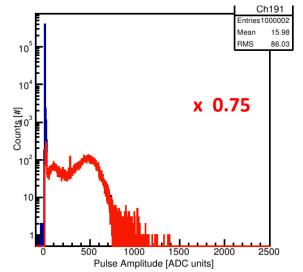


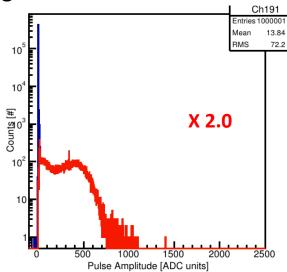




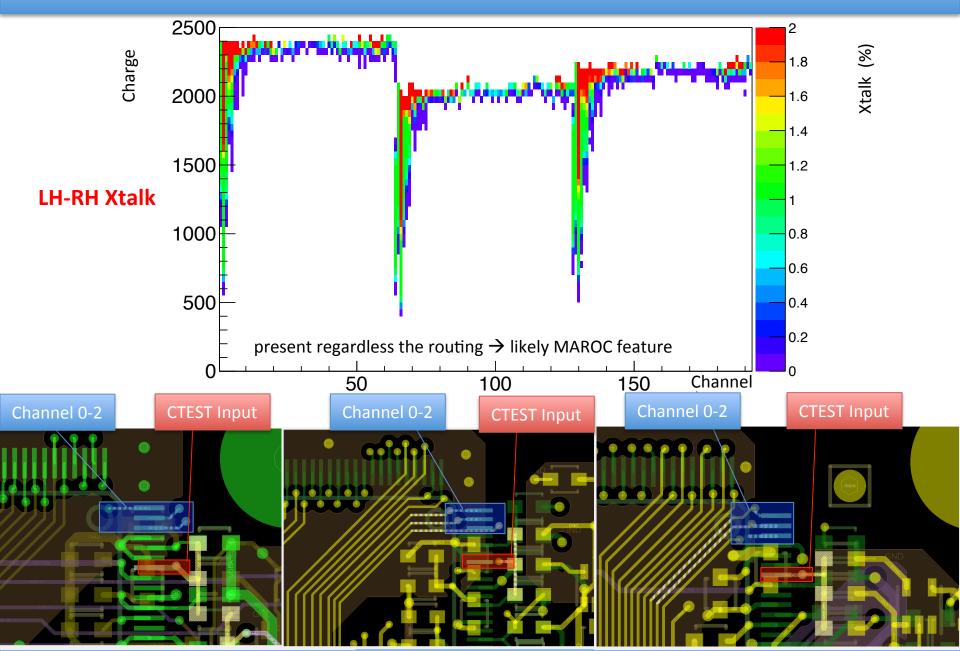
Measured at the laser bench in TED building



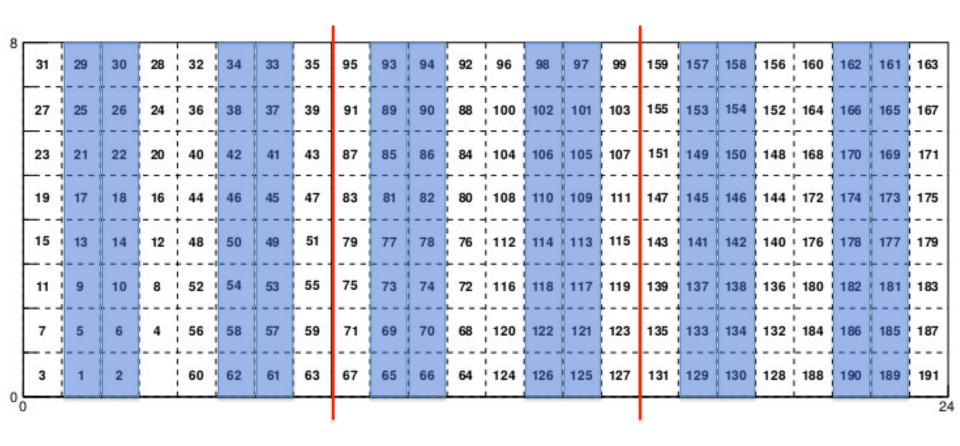




CTEST Onboard Pulser



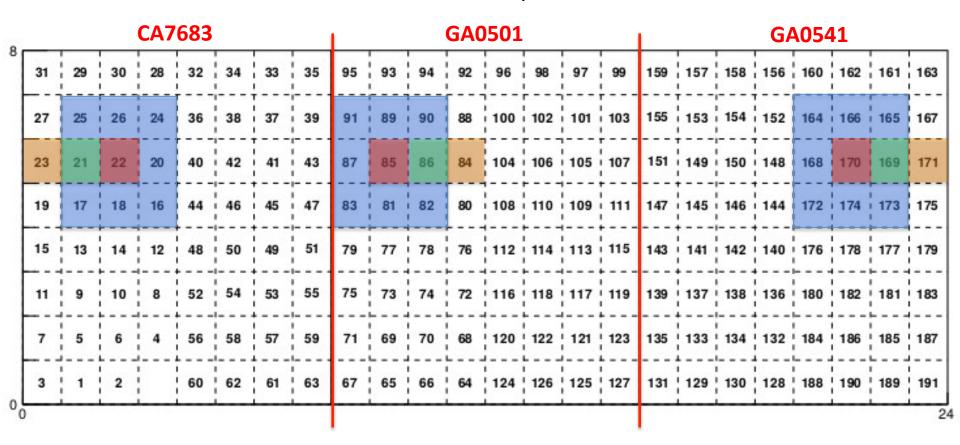
CLAS12 RICH Project Midterm Status



Left OR right channels readout on contiguous circuits

JLab Laser Test

3x MAROC tile, PMT covered by masks with small holes

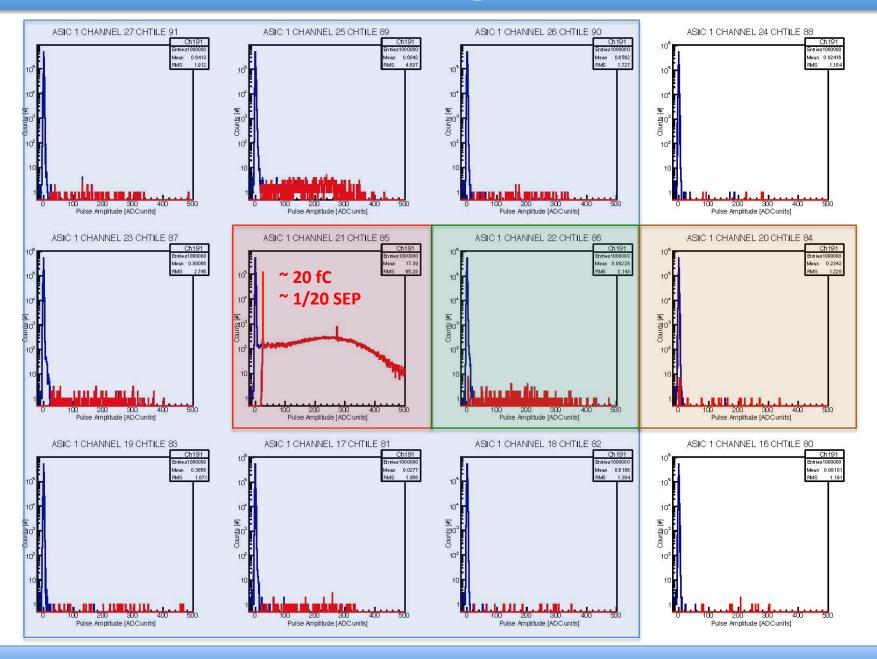


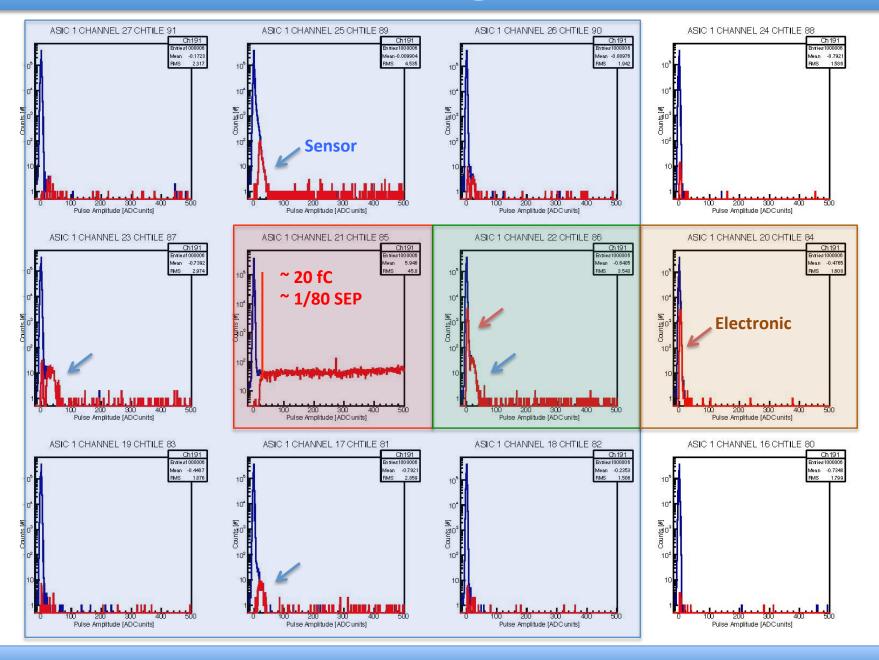
Fired Pixel

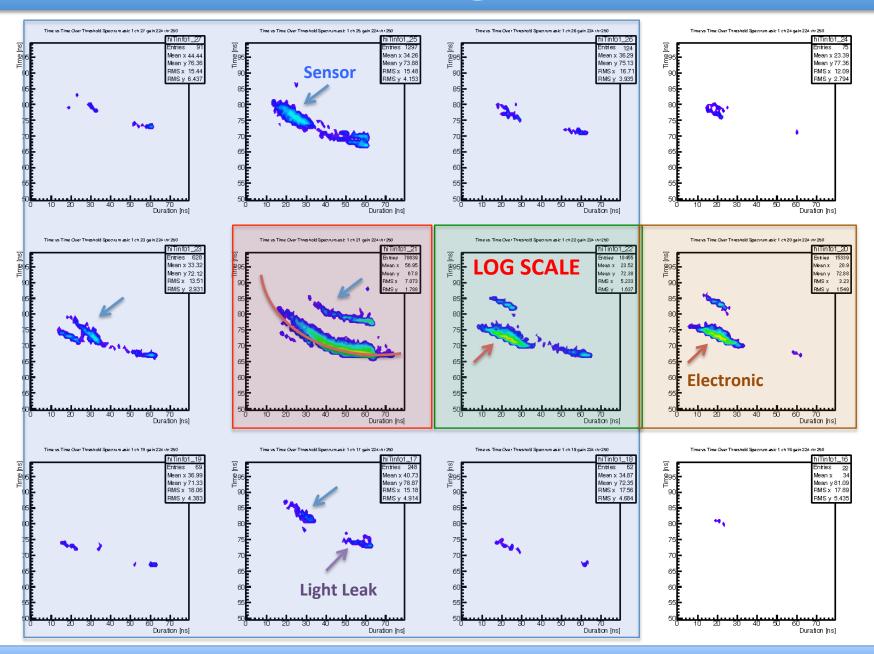
Electronic – **Xtalk**: contiguous circuits

Sensor - Xtalk: contiguous pixels

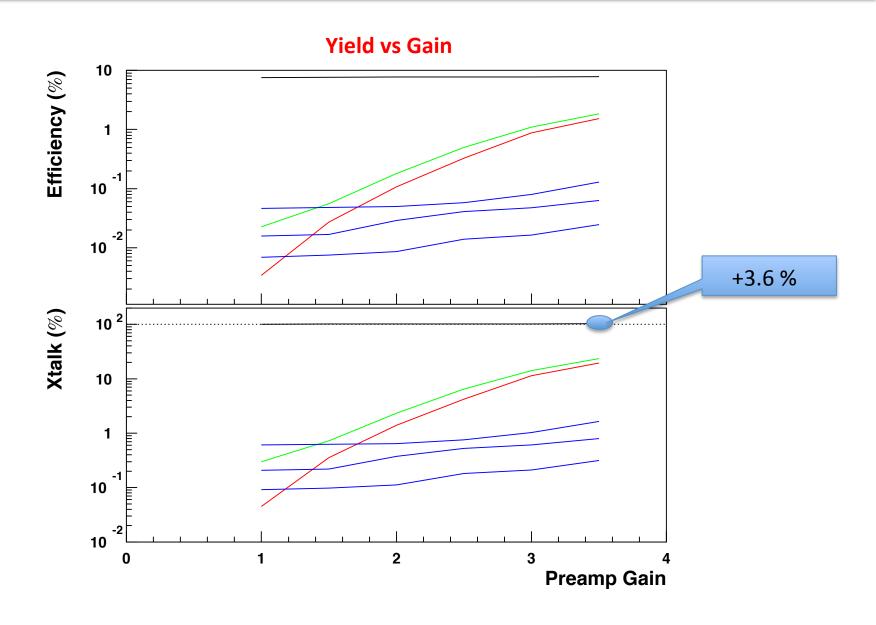
Electronic + Sensor Xtalk

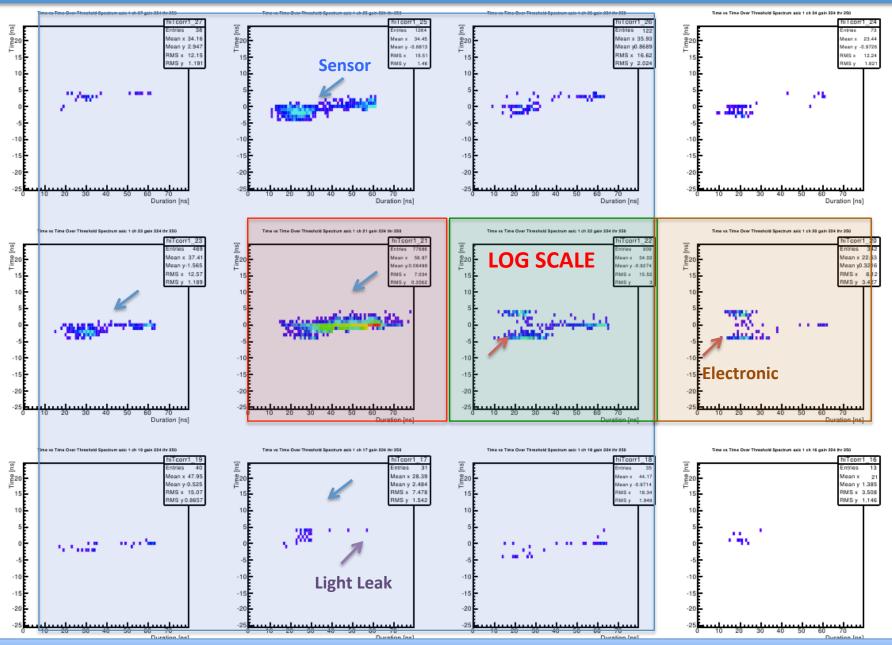






GA0501





GA0303 – Laser SPE – No mask

