




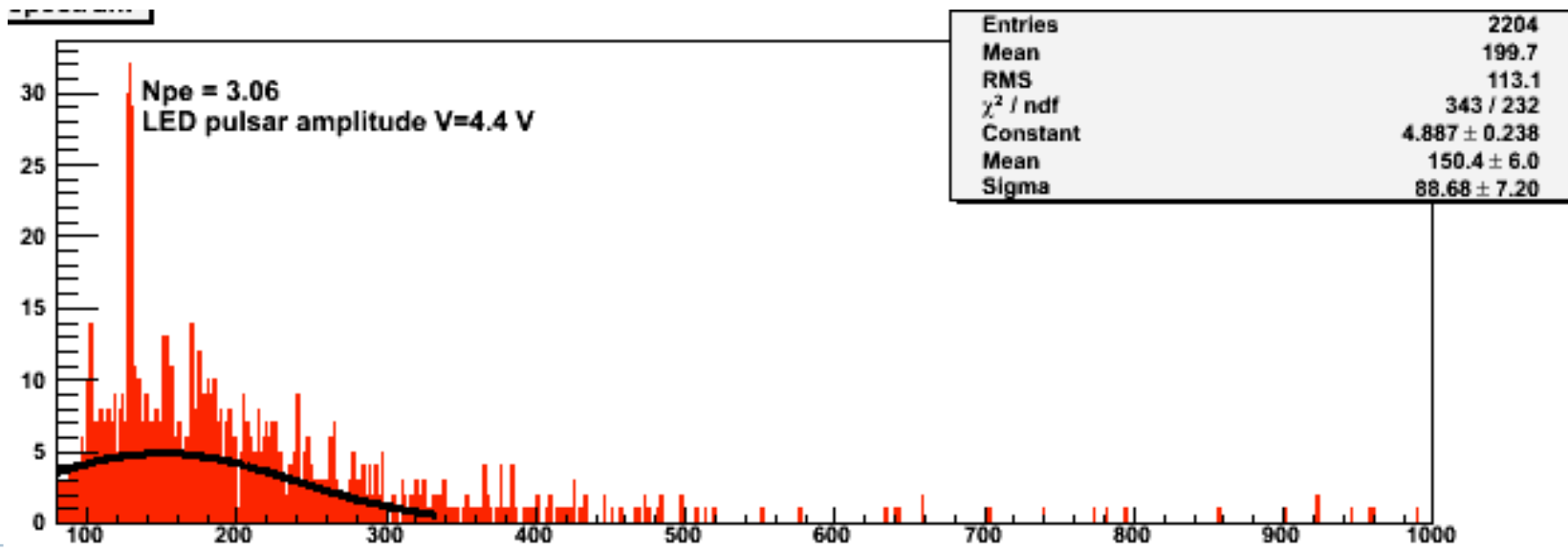
# Progress Report



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July 16, 2012

# Prototype Testing (JLab)

- ▶ First runs were performed at JLab!
  - ▶ Results decently consistent with Yerevan Group
  - ▶ The calculated # of P.E. for 8cm of aerogel is  $\sim 10$ ; the expected # of P.E. (in simulation) is 17
    - ▶ Causes for this discrepancy are being investigated



## Prototype Testing (CUA)

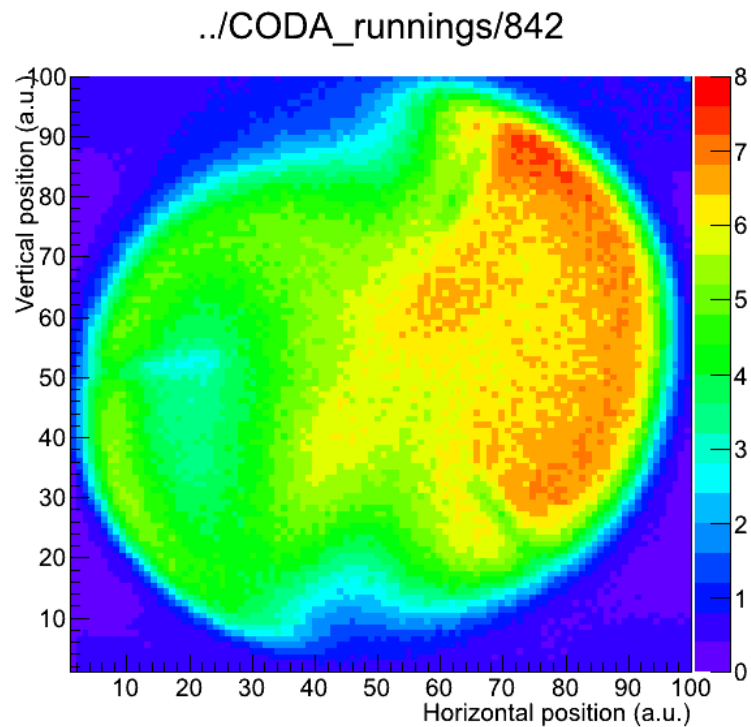
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- ▶ Currently preparing the same experimental setup used at JLab here at CUA
- ▶ Will be using both 1.03 and 1.02 aerogel
- ▶ Will eventually also test the BLAST PMT in the prototype; will switch out the Mylar lining for Millipore (to match Yerevan prototype)
- ▶ Hope to begin full testing *soon!*

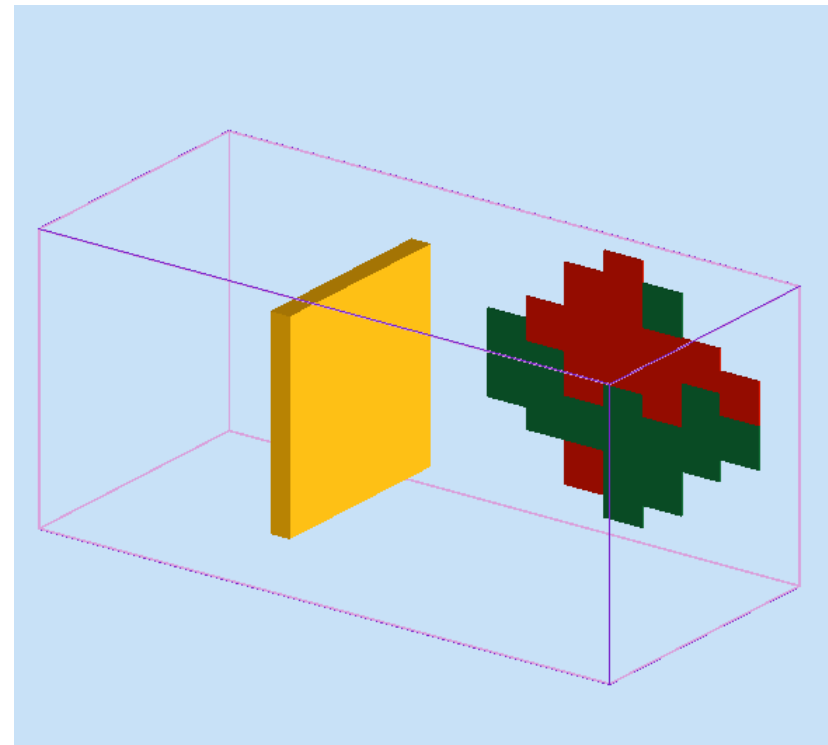


# Prototype Simulation

- ▶ Working on creating a grid-pattern across the PMT window to simulate the PMT window scanning results to account for 13.2% quantum efficiency



Example of low QE PMT window



Example of adjustable QE in simulation