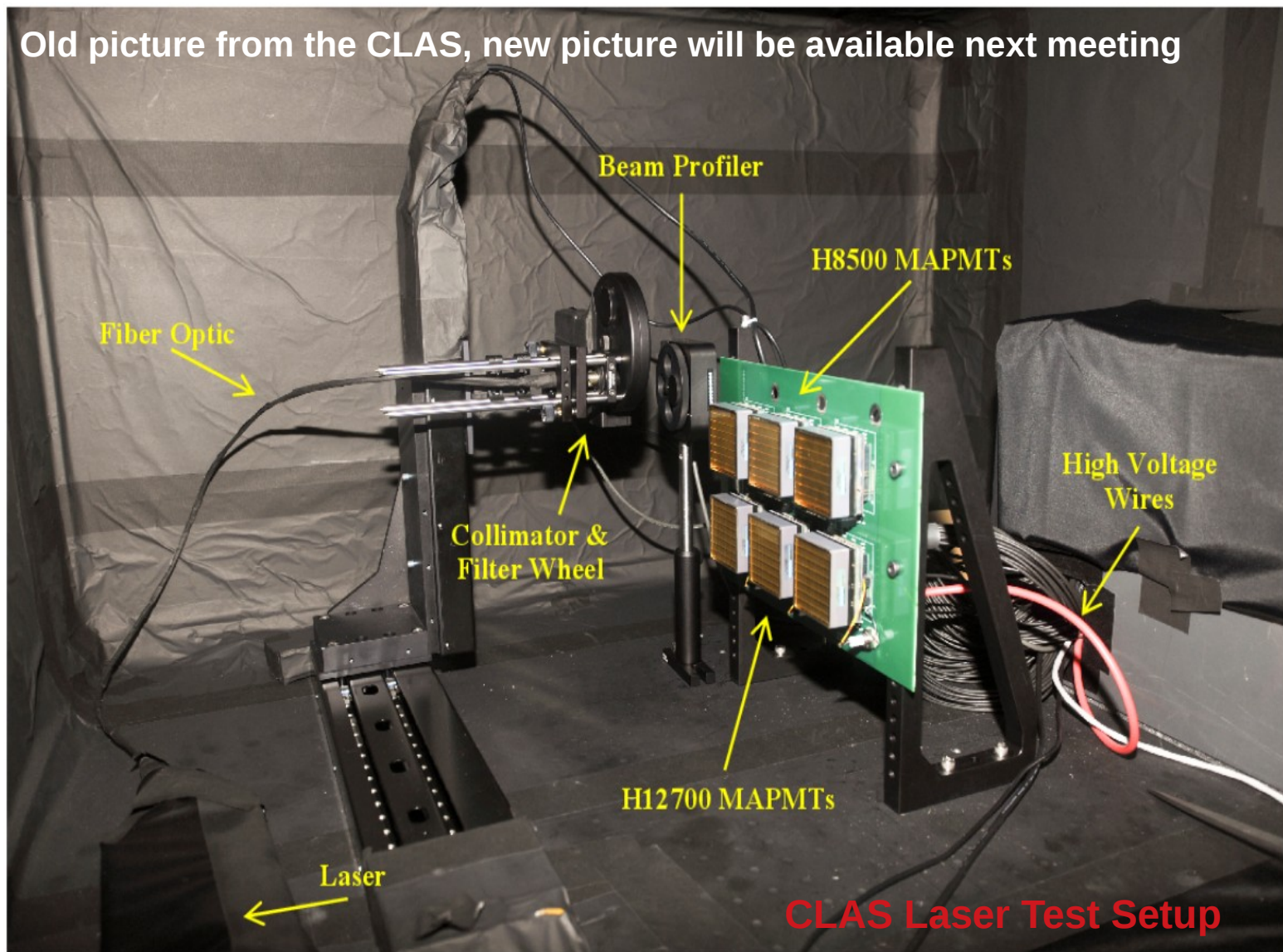


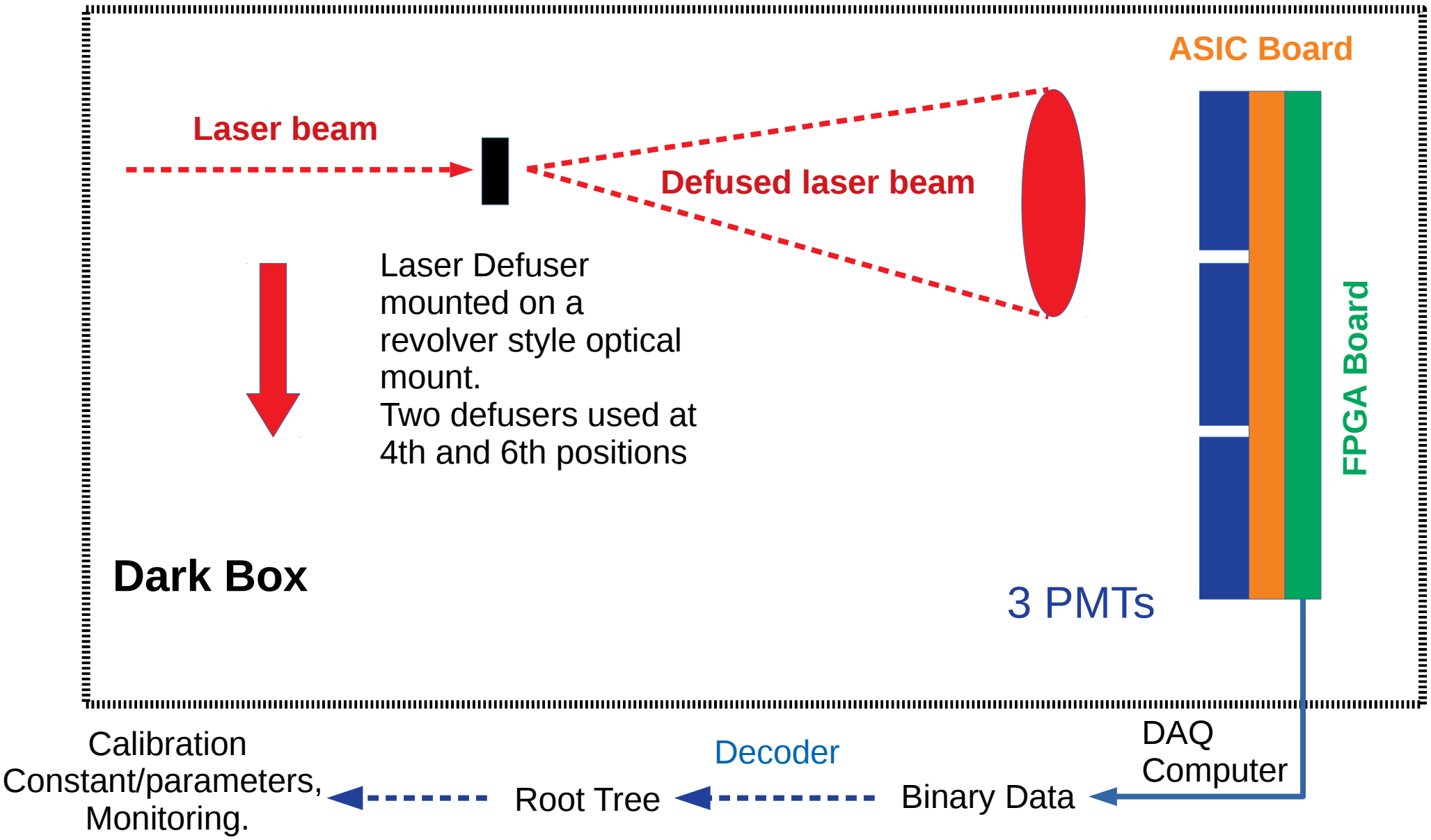
Old picture from the CLAS, new picture will be available next meeting



H12700 PMT Test

Bill & Justin
Jan 25, 2018

Laser Measuring Setup



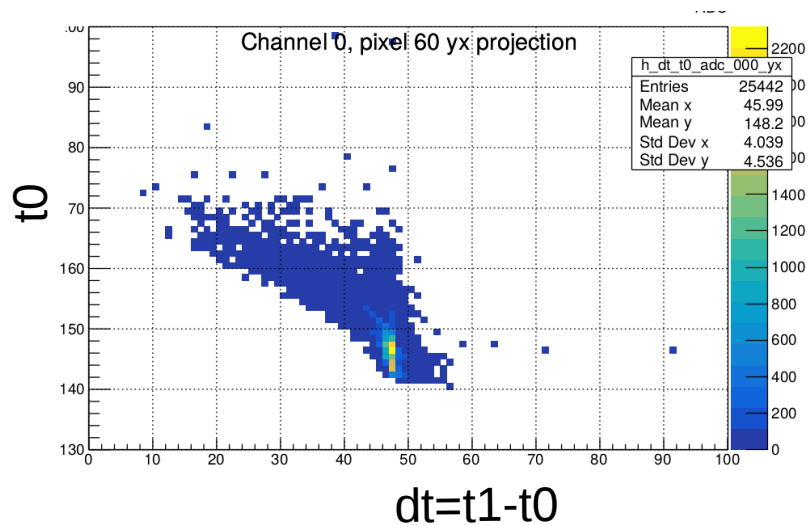
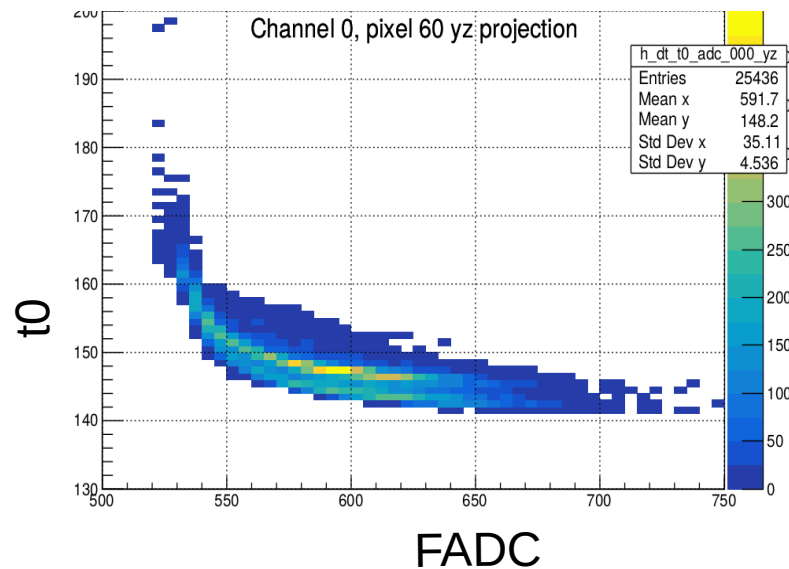
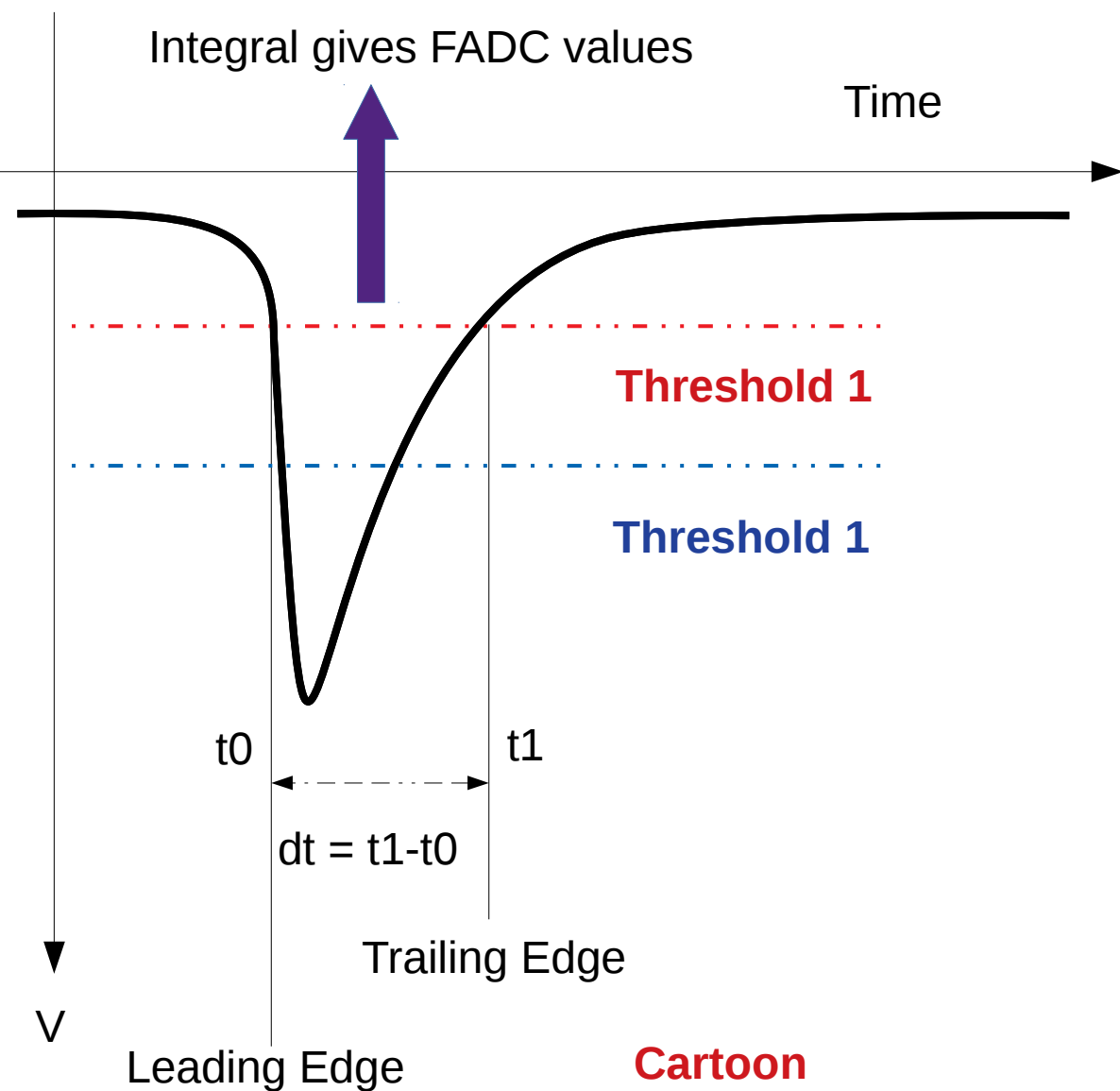
Detailed on Testing

- 2 sets of (6) PMTs can be mounted in the same time
- 72 running settings per PMT
 - 2 wheel positions: different laser intensity
 - 3 different voltages: gain match
 - 3 different MAROC gain values: different amplification
 - 4 different threshold values: Timing and FADC

Current Status

- 10 PMT Received Dec 2017, 15-20 more expected Jan 2018
- FPGA + ASIC boards combo:
 - 64 sets needed, 79 sets available, 80 sets purchased (1 ASIC board rejected due to defects)
 - **Customized Firmware not loaded!**
- **Test will start soon (early next week)**
- Priority Test new batch of PMT
 - Gain verification.

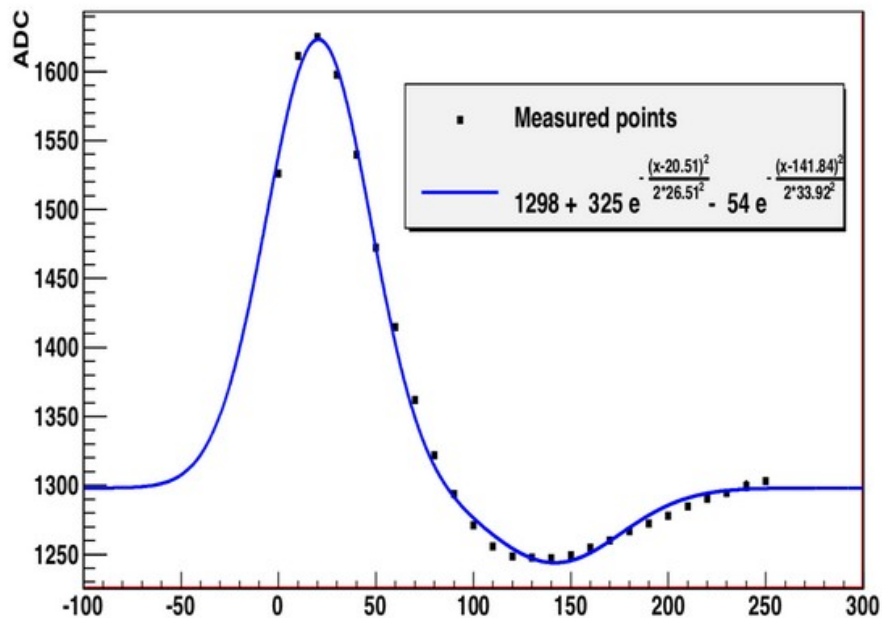
Timing Information



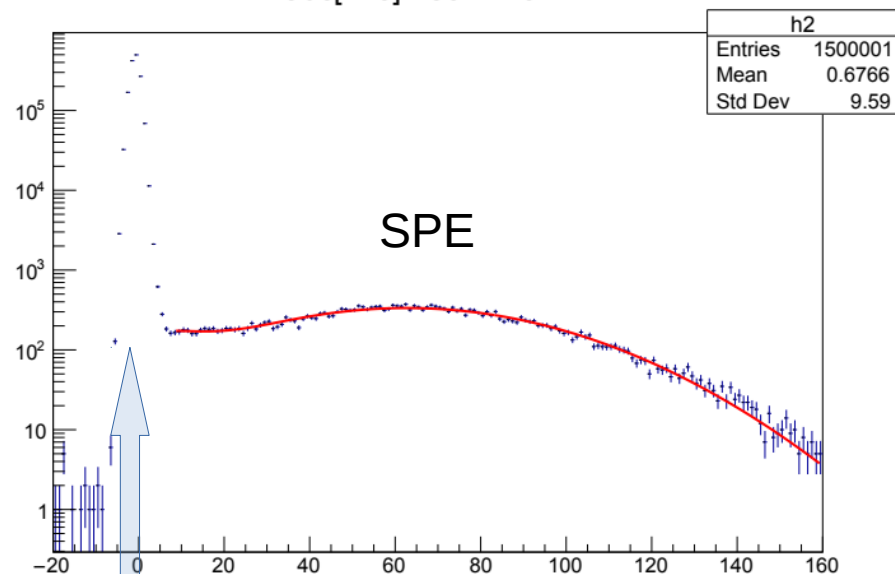
Gain (FADC) Calibration

fadc[120] - 504.210174

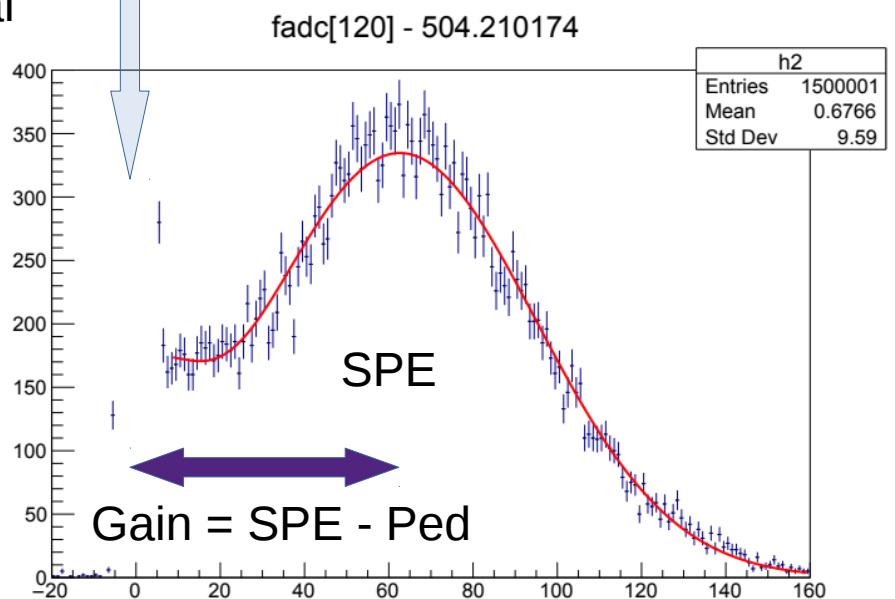
Bipolar Output of MAROC Slow Shaper



Real MAROC signal



Pedestal



Gain = SPE - Ped