



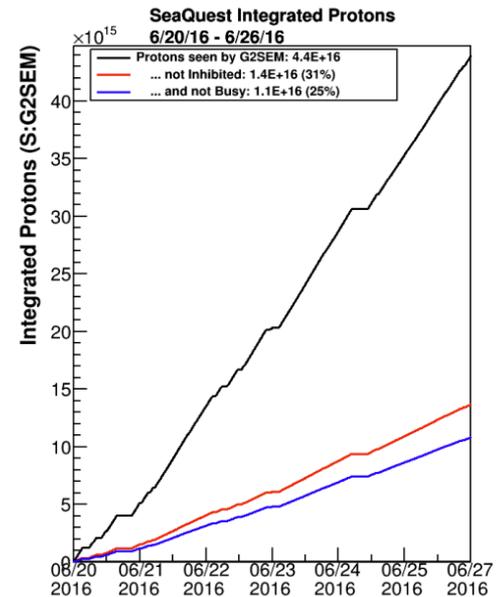
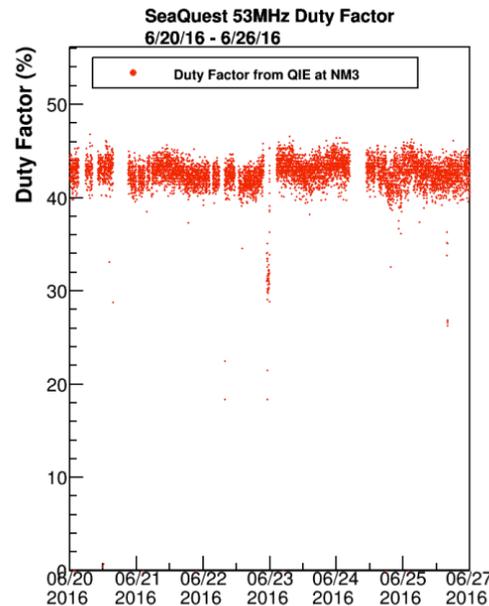
# SeaQuest AEM report

## June 27<sup>th</sup>, 2016

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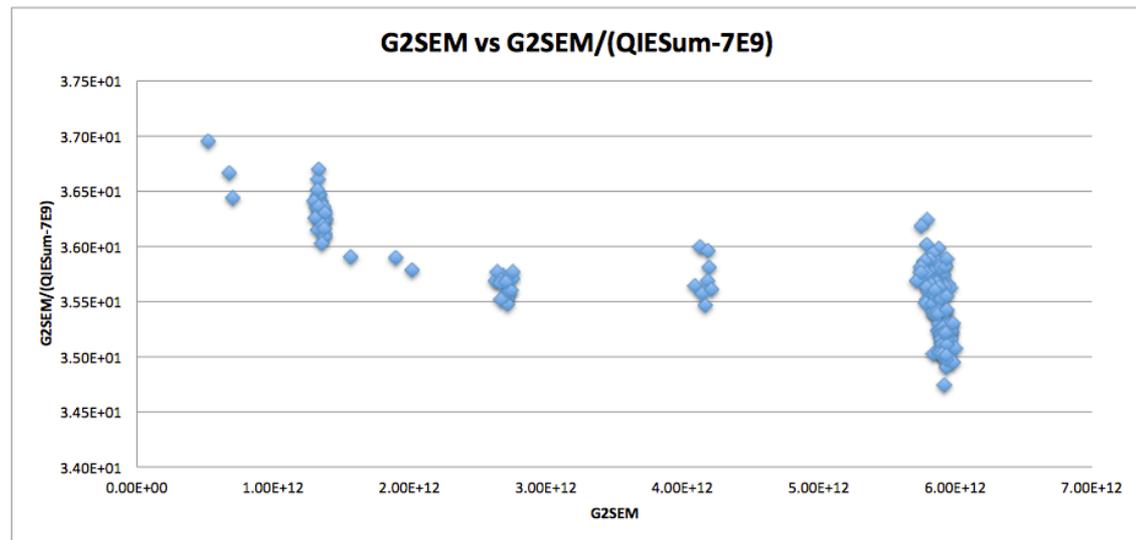
# Beam, integrated protons and duty factor

- 4.4e16 ppp provided to SeaQuest during last week with intermittent beam issues
  - Oil in Septa in MI52 overheating issue
  - Booster cogging front issues
  - Power supply down
- Intensity studies completed on June 23rd



# Cerenkov counter + QIE readout issues

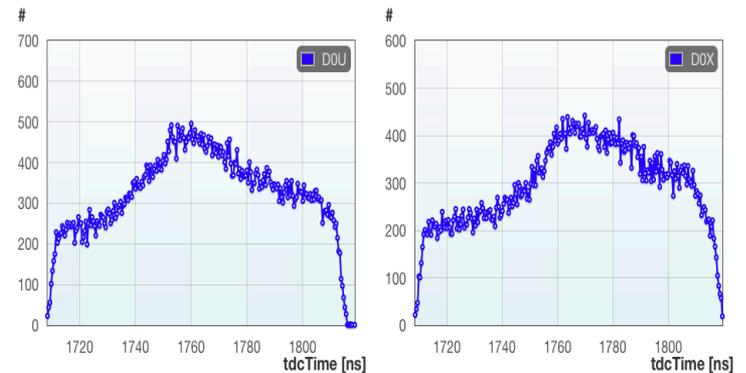
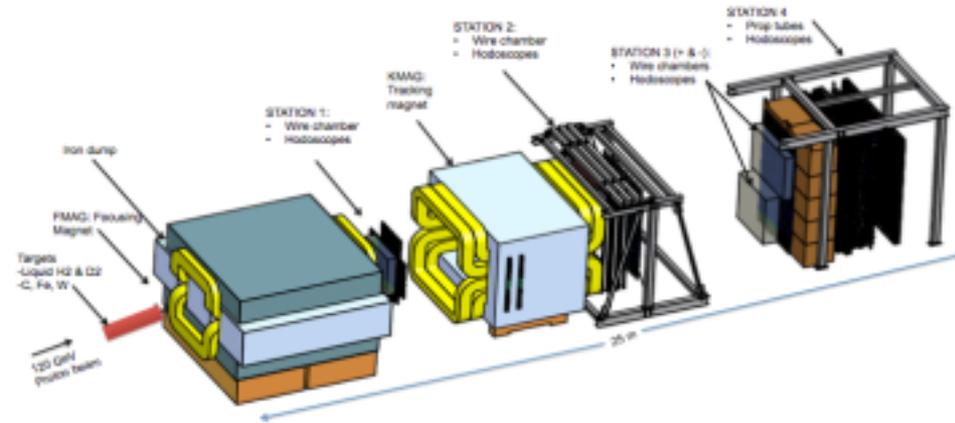
- QIE data missing since June 3<sup>rd</sup> – 20<sup>th</sup>
  - Microcode problems
  - Ribbon cable connected wrongly
- Intensity scan done on Jun 24<sup>th</sup> to make sure that the QIE is working as expected



G2SEM/QIE sum ratio is reasonably constant over a wide range of beam intensities

# Spectrometer

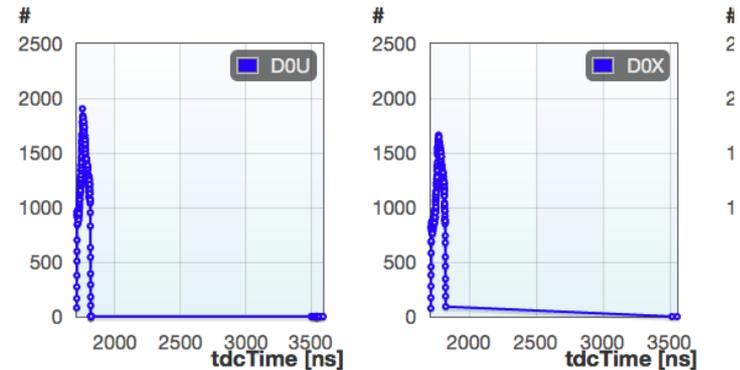
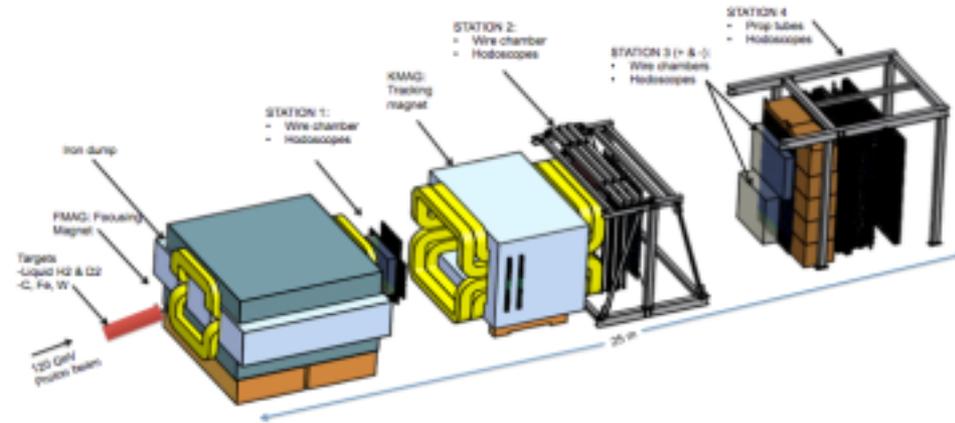
- Cerenkov
  - Problems reported in the previous slide
- Targets
  - Occasional EPICS script issues
- Magnets
  - LCW temperature being monitored
- Drift chambers
  - D0 ✓
  - D1 - occasional CAEN module trips ✓
  - D2 - occasional trips
  - D3+ & D3- ✓
  - Occasional readout issues with the TDC time windows (known problem)
- Hodoscopes
- DAQ
  - Occasional BeamDAQ and MainDAQ crashes
  - Scalar DAQ issues fixed by active night shifters!



normal tdc spectra

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Bogus events observed in the tdc time plot

# Plan

Continue taking good data!