SeaQuest/E906 AEM Report

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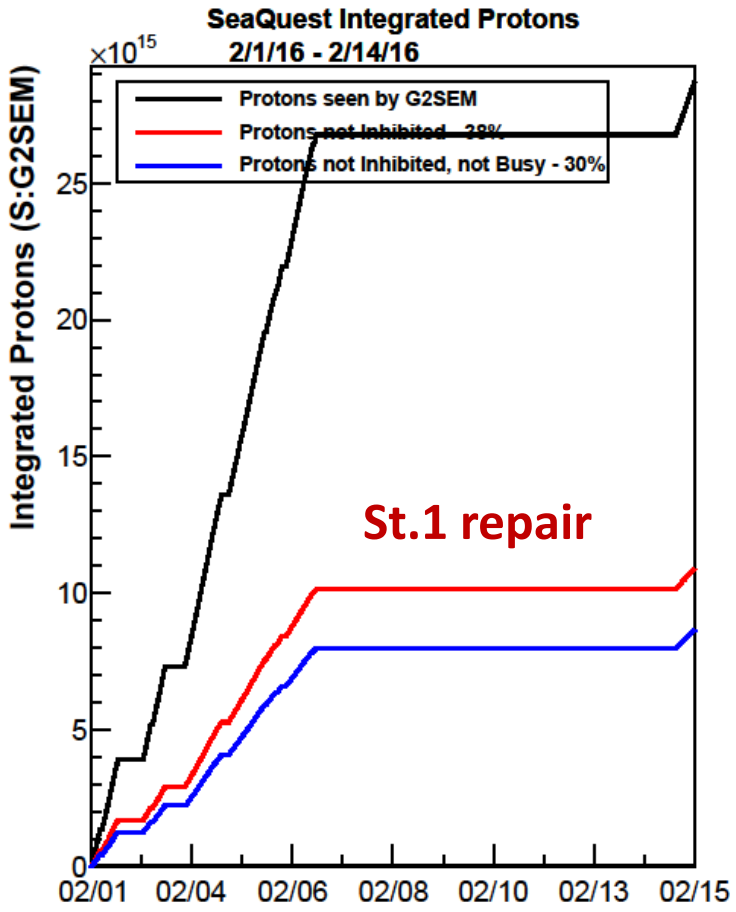
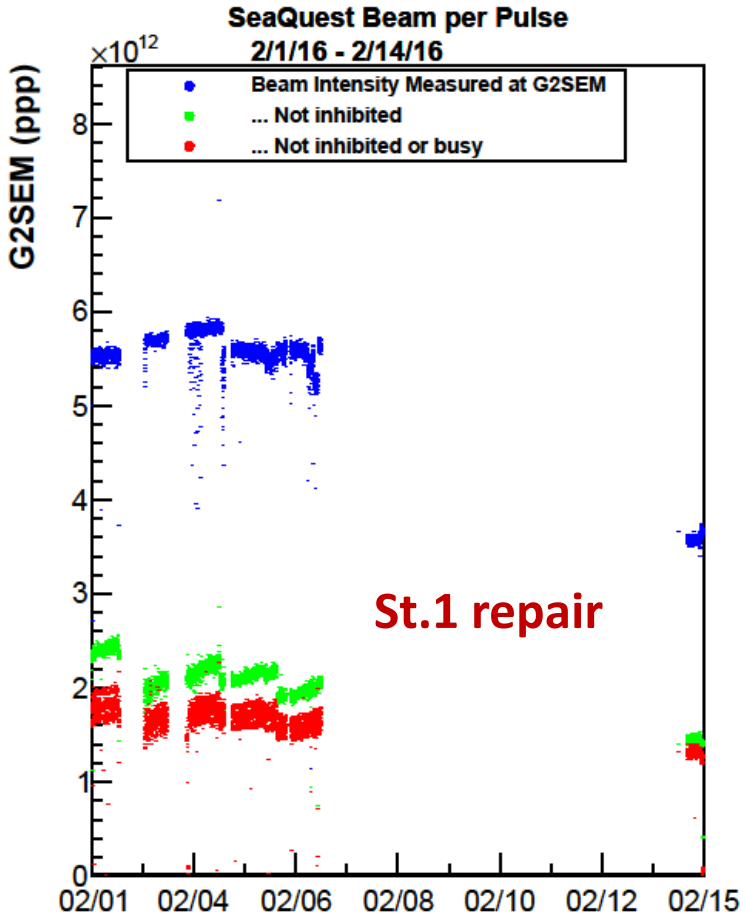
Beam

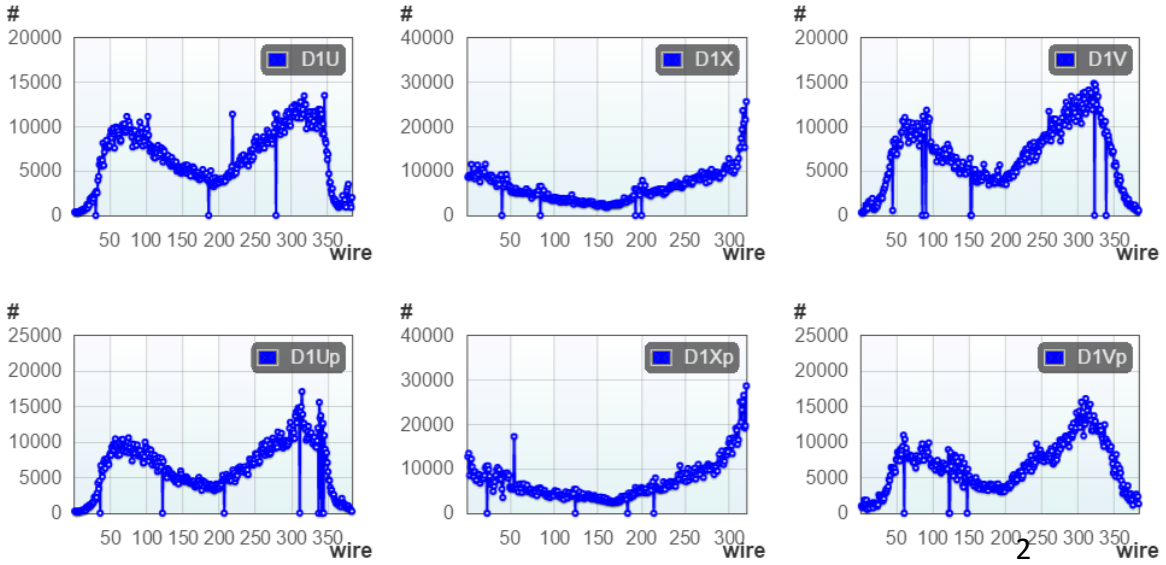




Taking beam with # of booster batches = 4 since Saturday(2/13) ~8pm, has requested 6 this morning.

St.1 Chamber

- Cosmic test with $ArCO_2$ filled in St.1 on Wednesday (2/10)
- Gain test performed before requesting beam
  - Lower than the previous operating gas mixture
  - Tweaking the gas mixture now – trying to reduce the CF4 percentage
- Warming up with HV at 1600V over the weekend, currently at 1630V
  - No significant leak current drawn
- Reasonable hit distribution



Experiment Status

- Target
  - Remained silent, no alarms
- Hodoscopes & Prop tubes
  - Working Smoothly
- DAQ
  - EPICS sever had some glitches, came back fine when we got beam
  - ScalerDAQ has been problematic for a while, mostly related to the decoding, data taken is fine.

Plan

- Tune St.1 Chamber HV, threshold, and gas mixture to have it work at full efficiency
- **Take good data.**