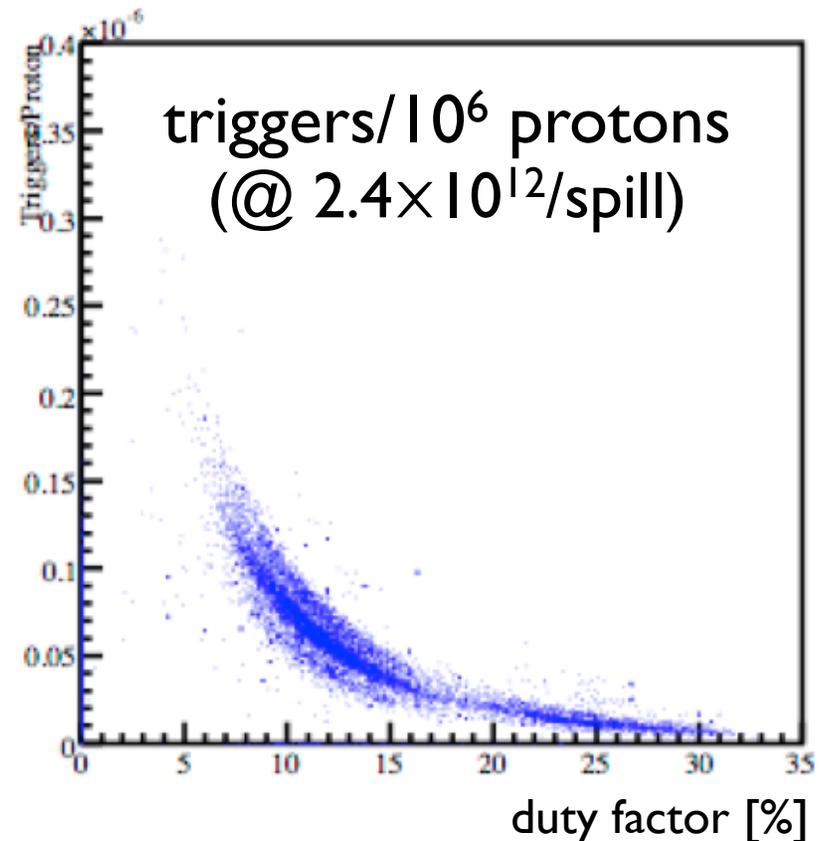
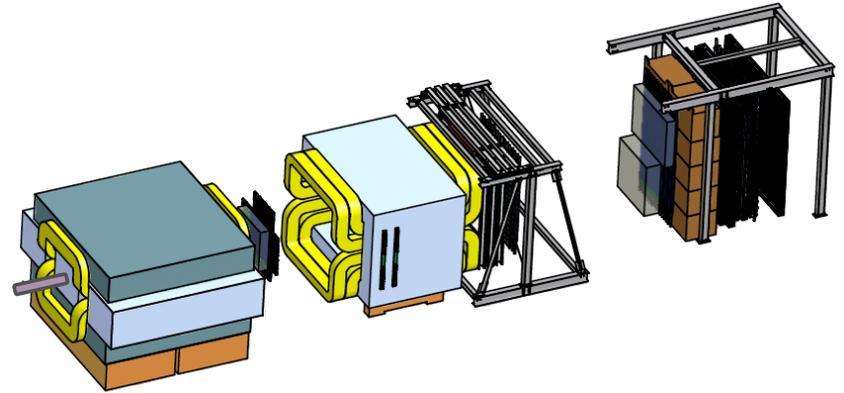


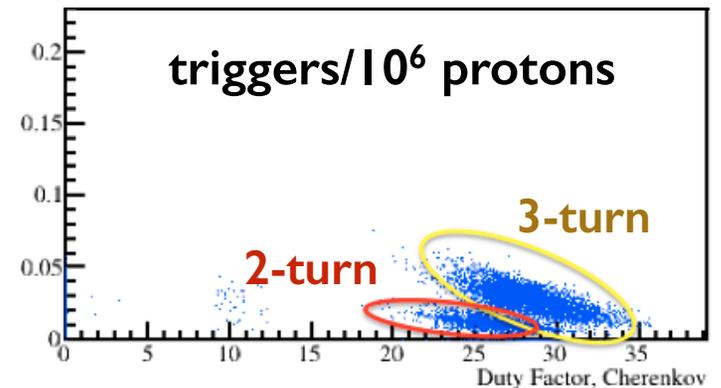
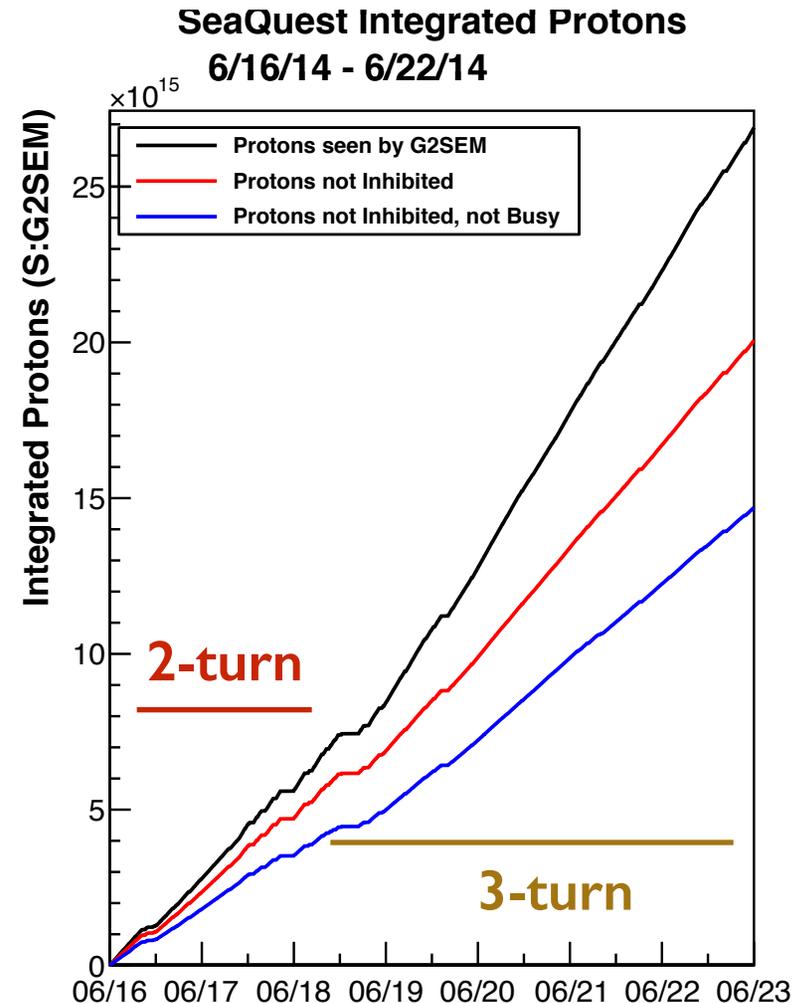
# SeaQuest Status:

- Important developments two weeks ago:
  - ▶ Accelerator significantly improved the duty factor of the beam two:  
~10-15% → ~30%!
  - ▶ Resulted in 45% → 70% of protons accepted by beamline Cherenkov monitor veto threshold
  - ▶ This dramatically improves background rates and DAQ live



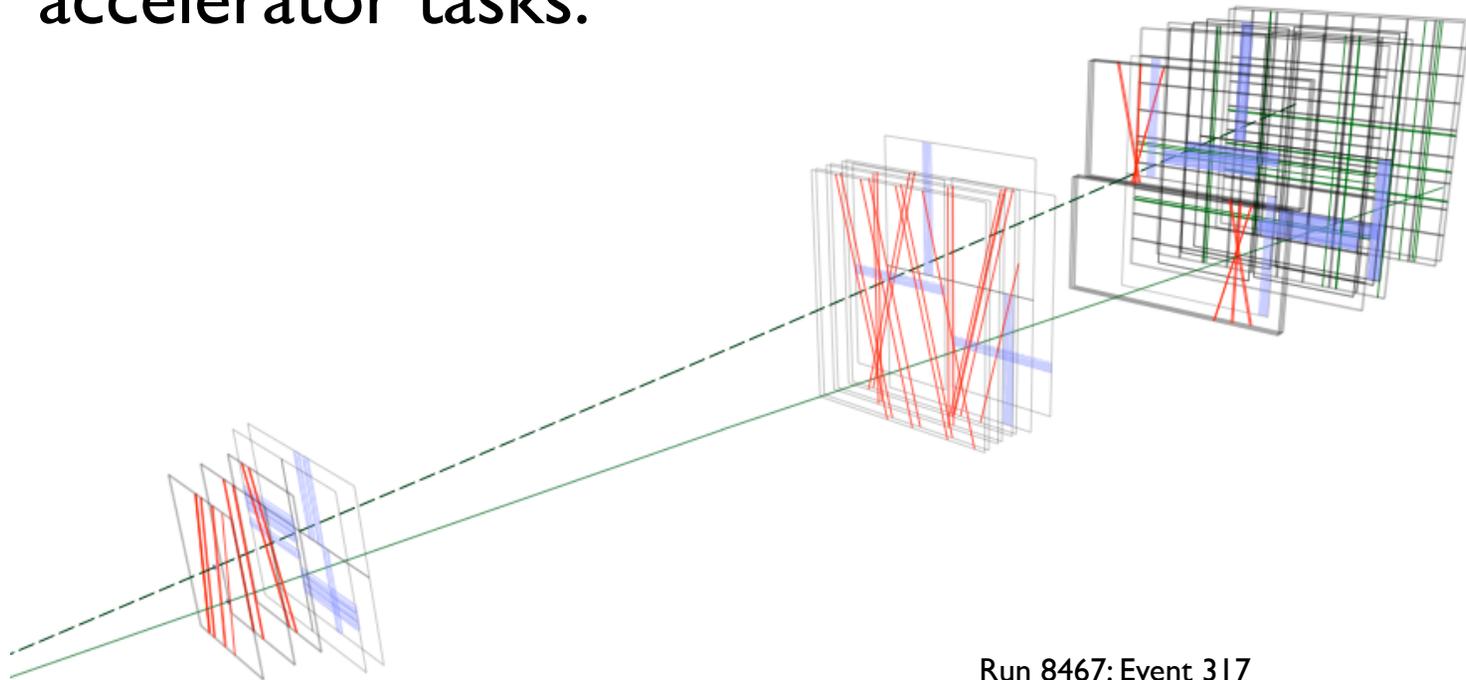
# Last week

- ▶ Physics data collected with minimal interruption
- ▶ Detectors operating well
- ▶ Improved beam quality allowed for change of standard conditions from two-turn to three-turn booster injection. i.e.  $2.4 \times 10^{12} \rightarrow 3.6 \times 10^{12}$  protons/spill on Tuesday (6/17). ( $10^{13}$  is E906 design goal).
- ▶ Some random (minimally-biased) trigger data taken to optimize trigger configuration under new conditions. Trigger “56” developed.
- ▶ Brief interruptions for flammable gas detector replacement/service. Planning to relocate these to lower dose area.



# Plans for this week:

- Test and switch to optimized trigger matrix “56”
- Replace Cherenkov monitor mirror
- ~1 day access on the 26<sup>th</sup> to replace several noisy amplifier cards - coordinated with accelerator tasks.



Run 8467: Event 317