E906/SeaQuest Report

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for the SeaQuest Collaboration

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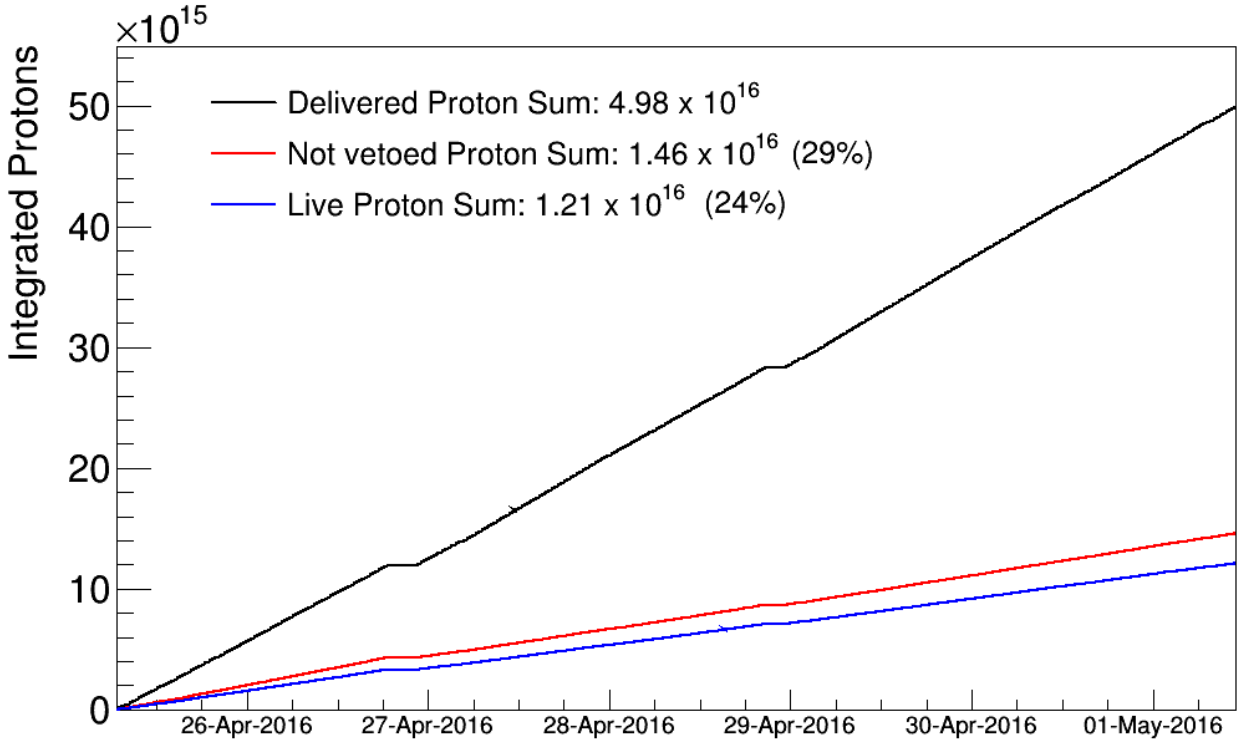
Beam.

Total protons accumulated: 4.98×10^{16}.



- Ran some few special runs to monitor trigger efficiency.

DAQ.

- Issues from previous week:

  - Fixed by replacing problematic fan module and CF cards of some ROCs.

- Some few coda crashes → fixed by rebooting ROCs and restarting coda.
- Clean up of old geometry files caused decoding issues → quickly fixed by updating the script.

Target.

- Target computer monitor stopped working $\rightarrow$ replaced.
- Flammable gas alarm on Thursday $\rightarrow$ everything was fine, issue with the sensor.
- On Friday, technicians recalibrated the H_2 detector which wasn't working well due to radiation, and replaced memory card which was full.

Target.

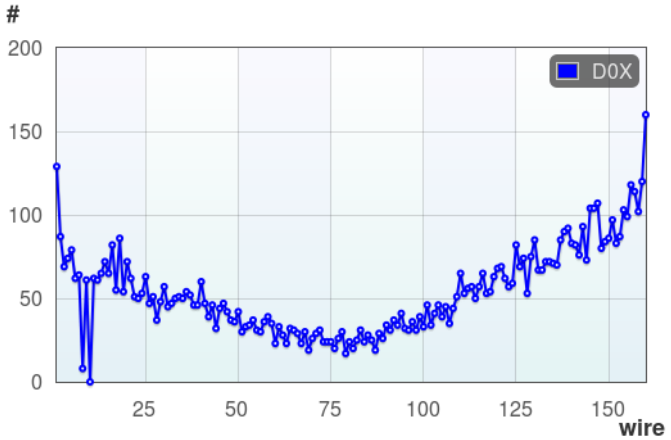
- Target computer monitor stopped working → replaced.
- Flammable gas alarm on Thursday → everything was fine, issue with the sensor.
- On Friday, technicians recalibrated the H_2 detector which wasn't working well due to radiation, and replaced memory card which was full.
- Installed two boards as shields for the flammable gas detectors:

Stations 0, 1, 2, 3 and 4.

- Dead channels on Station 0 → fixed by reconnecting loose cables found.

Before:

After:

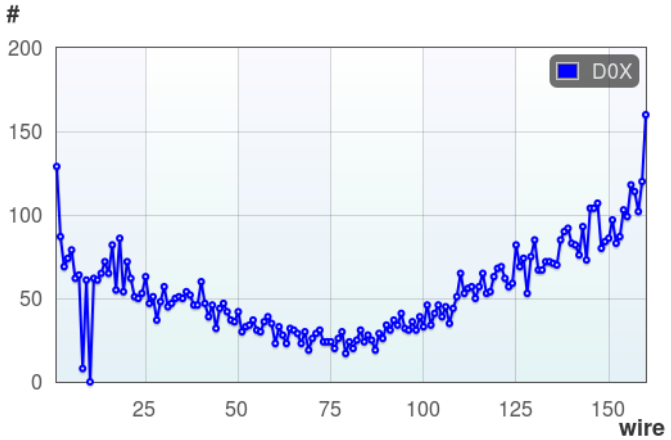


Stations 0, 1, 2, 3 and 4.

- Dead channels on Station 0 → fixed by reconnecting loose cables found.
- Reinstalled original CAEN HV supply for Station 1.
- Set nominal ASDQ thresholds to Station 2.

Before:

After:



Summary.

- DAQ is back to normal since beginning of last week.
- Recalibrated H_2 gas detector and replaced memory card $\rightarrow$ plans to install quick reset button on next open access day.
- Very good week.

Plan: continue taking nominal data.