The MINERνA Operations Report
All Experimenters Meeting

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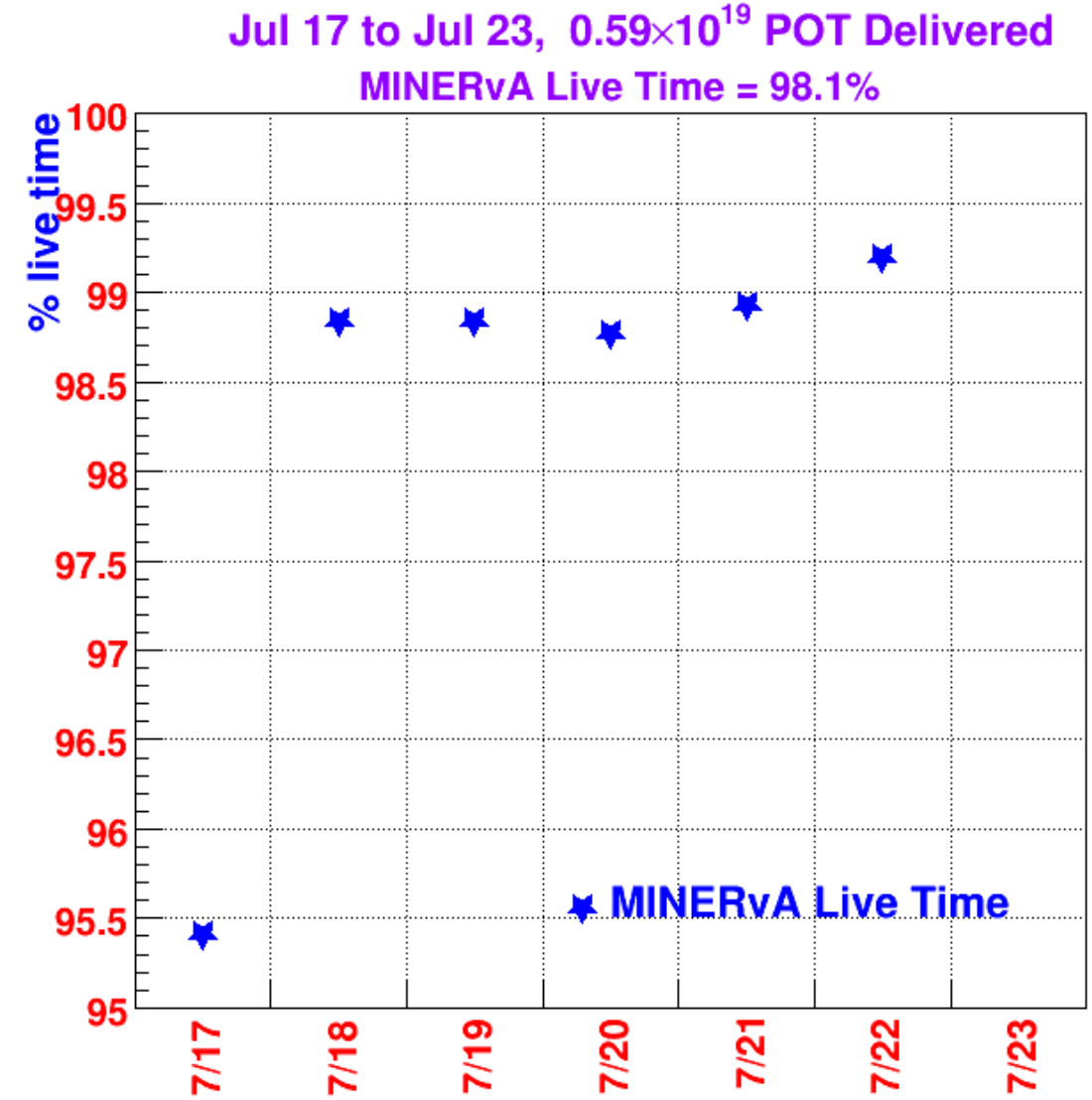
July 28, 2014

ν Data



- Live time July 17-23.
- Live time of 98.1%
- July 17, DAQ stops taking data. Killing all the DAQ processes and restarting them brings the DAQ back to life.
- July 23 no beam

The Shutdown

- We did not do any hardware changes during the shutdown.
- We did DAQ software studies to understand the order that DAQ processes have to be started. This insures that DAQ & light injection (LI) system runs properly. The DAQ scripts were modified with the correct order of the processes.
  - This was done because when we switched DAQ computers we had trouble getting the LI system running.

Failed FEB

- On July 24, a TriP-t chip failed on a FEB and was replaced. The replacement took about 15 minutes.
  - The TriP-t chips are the front end readout chip for 16 channels on a FEB board. A FEB reads out 64 channels.
  - The TriP-t chip was designed for the D0 Central Fiber Tracker.

Power Glitch on 7/27 3:35 AM

- We did not lose any data from the glitch, However:
- Underground computers, master and logger, lost mounts to the 2 DAQ computers. In addition, master also lost its BlueArc mount. The consequence of this is raw data files were not copied to the offline area & keepup cannot process the files.
- The DSTs for the e-Checklist were created, but we were not able to access them using the WEB pages.
- The DAQ computers were remounted to logger so we were able to look at the processed DSTs. This was done yesterday

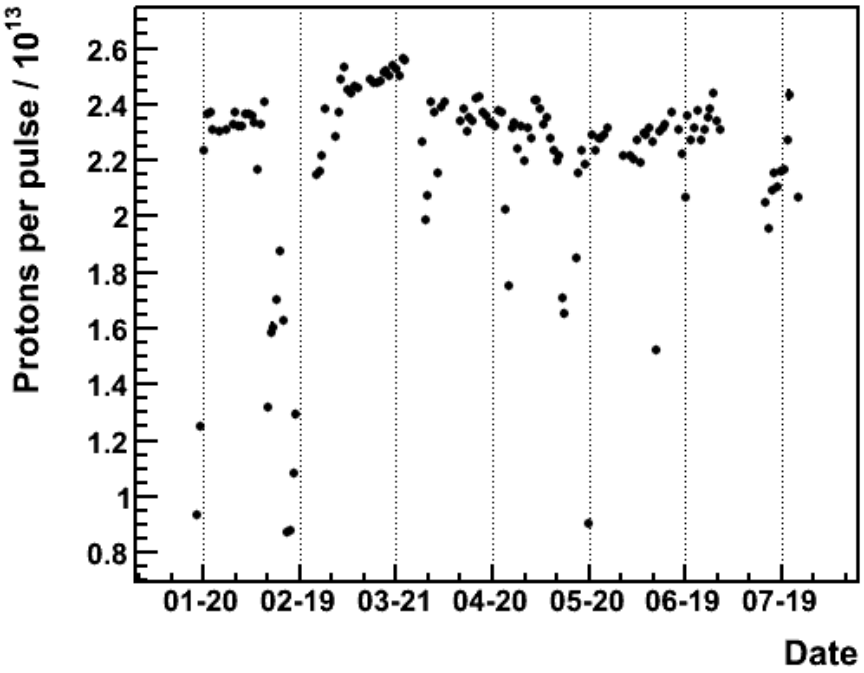
Power Glitch on 7/27

- 2 out of the 4 control room computers lost their BlueArc mount. This was resolved yesterday with a service desk ticket.
- The computer which runs the WEB eChecklist had problems, so we had to looked at the DSTs manually. This was resolved yesterday with another service desk ticket.
- Today, the DAQ computers were mounted to master, so we could start archiving raw files & start the keepup processes. This was done by another service desk ticket
  - The Nearline system copies raw files to Feynman. They are saved for about 1 week and deleted, so the Nearline system creates a temporary back.

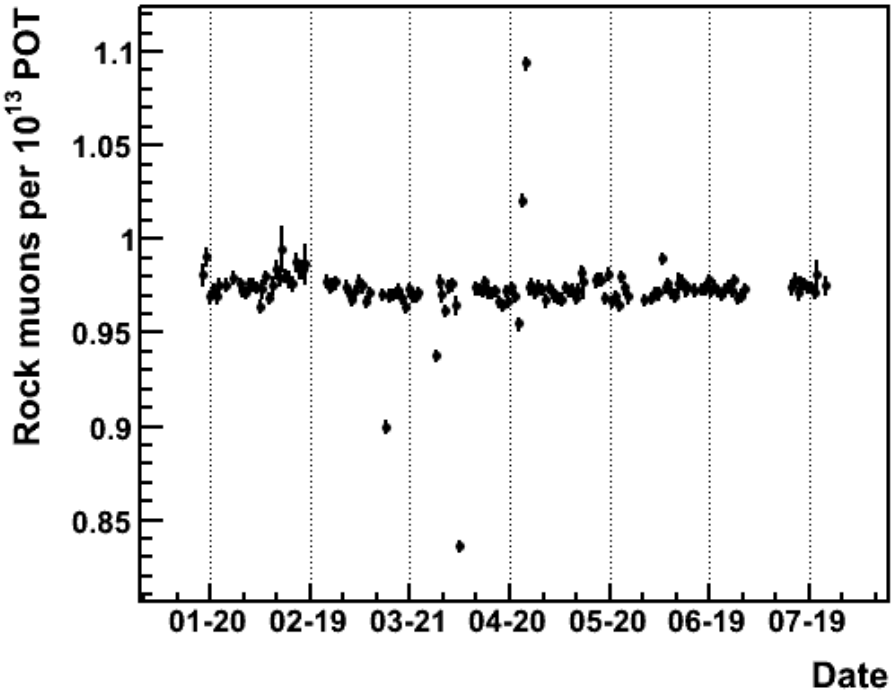
Power Glitch on 7/27

- Computer bck1 in the MINOS hall is dead. This machine talks to the VME crate which controls the VETO Wall high voltage.
  - The VME crate can continue to supply HV to the VETO PMTs without bck1, but no monitoring or changes can be made to the HV without bck1.
  - We can monitor the status of the HV by looking at the efficiency of the VETO counters.
  - FEF group is looking into the problem.
  - This is the only remaining issue of the power glitch
- We would like to thank the PPD FEF group & online support group for help in resolving these issues.

Rock Muons/POT



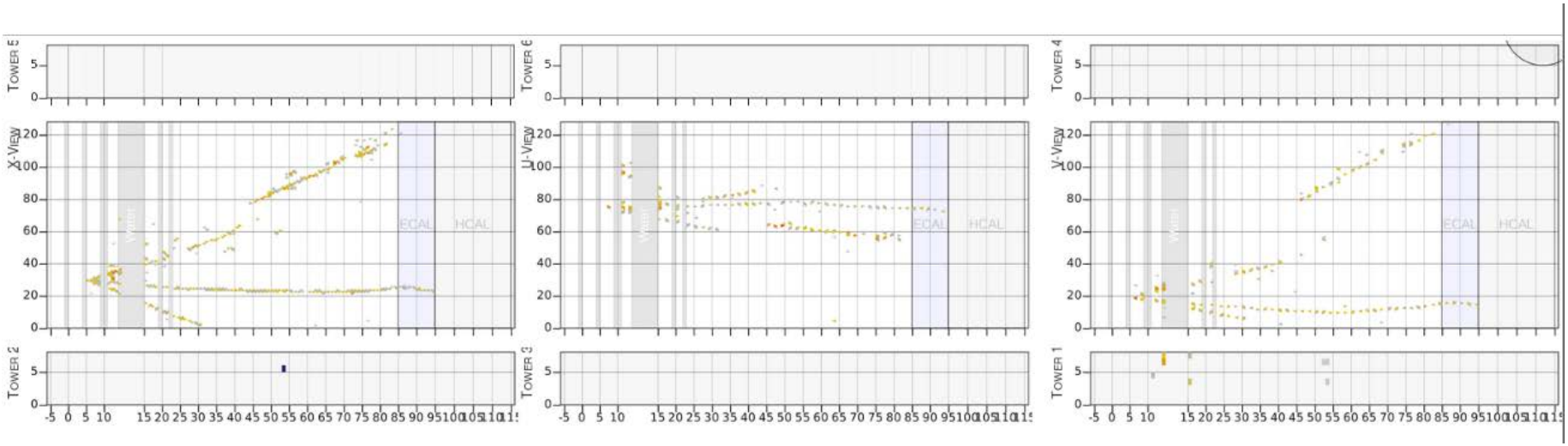
POT/Pulse



Rock Muons/POT

Event Display

Outer Calorimeter



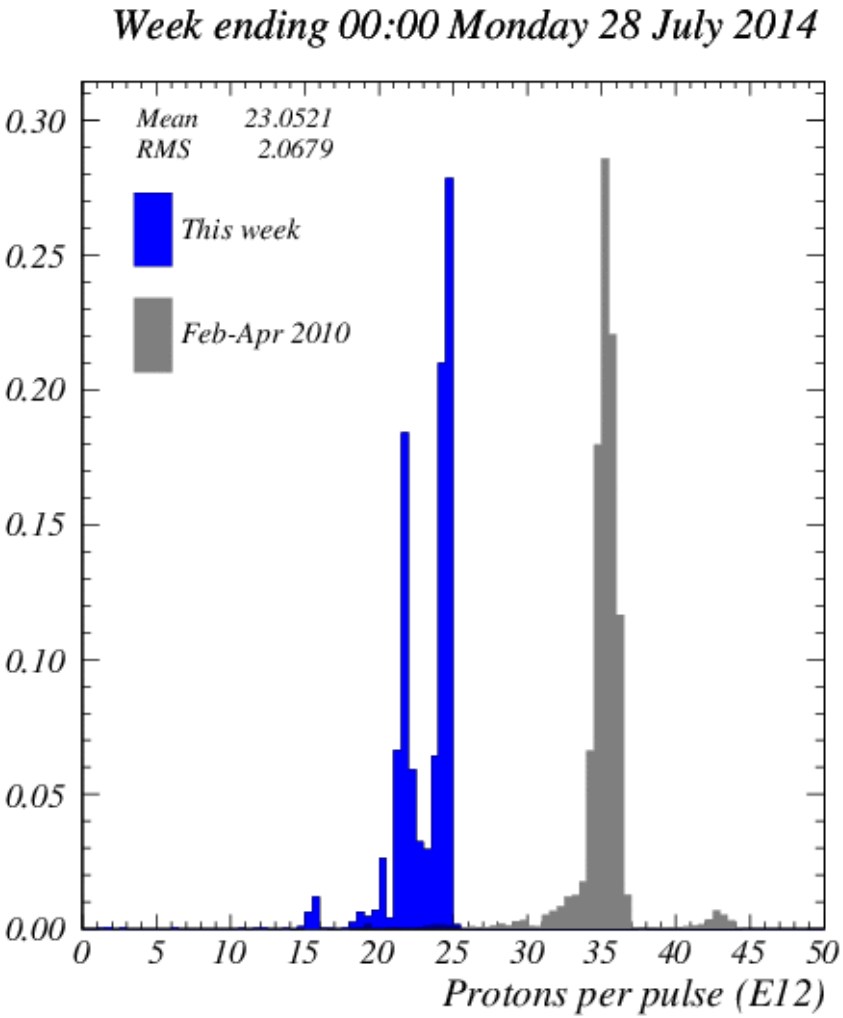
X View

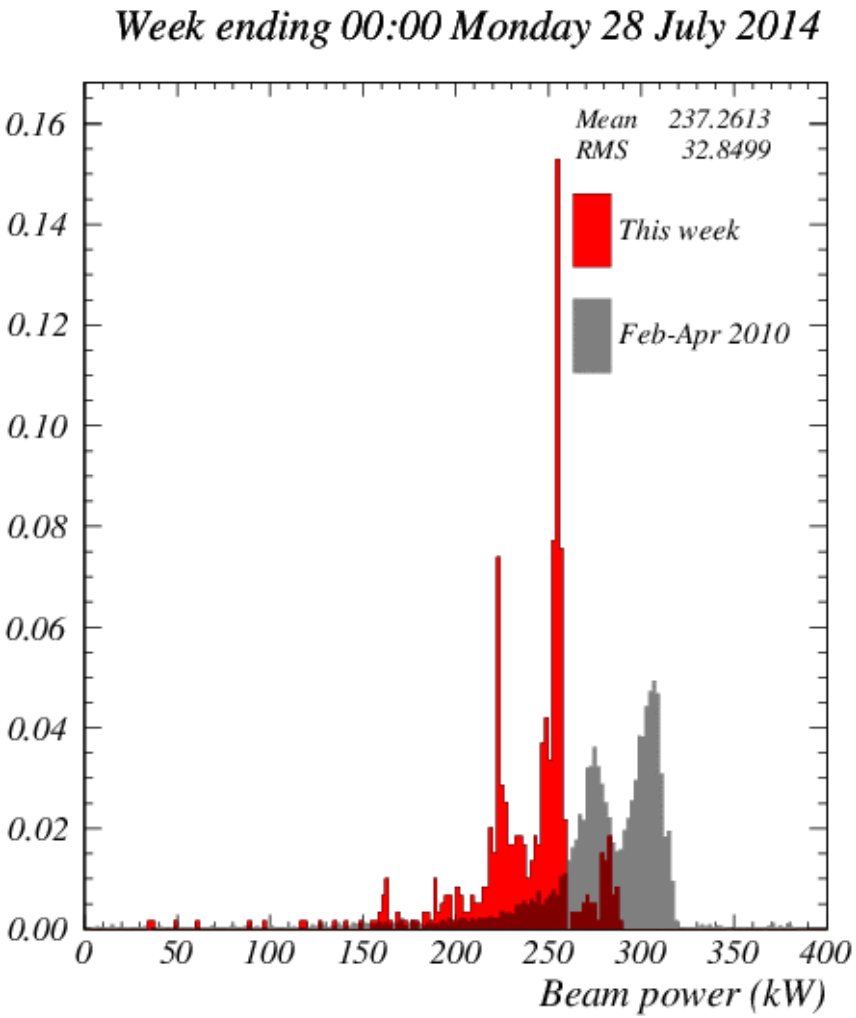
U View

V View

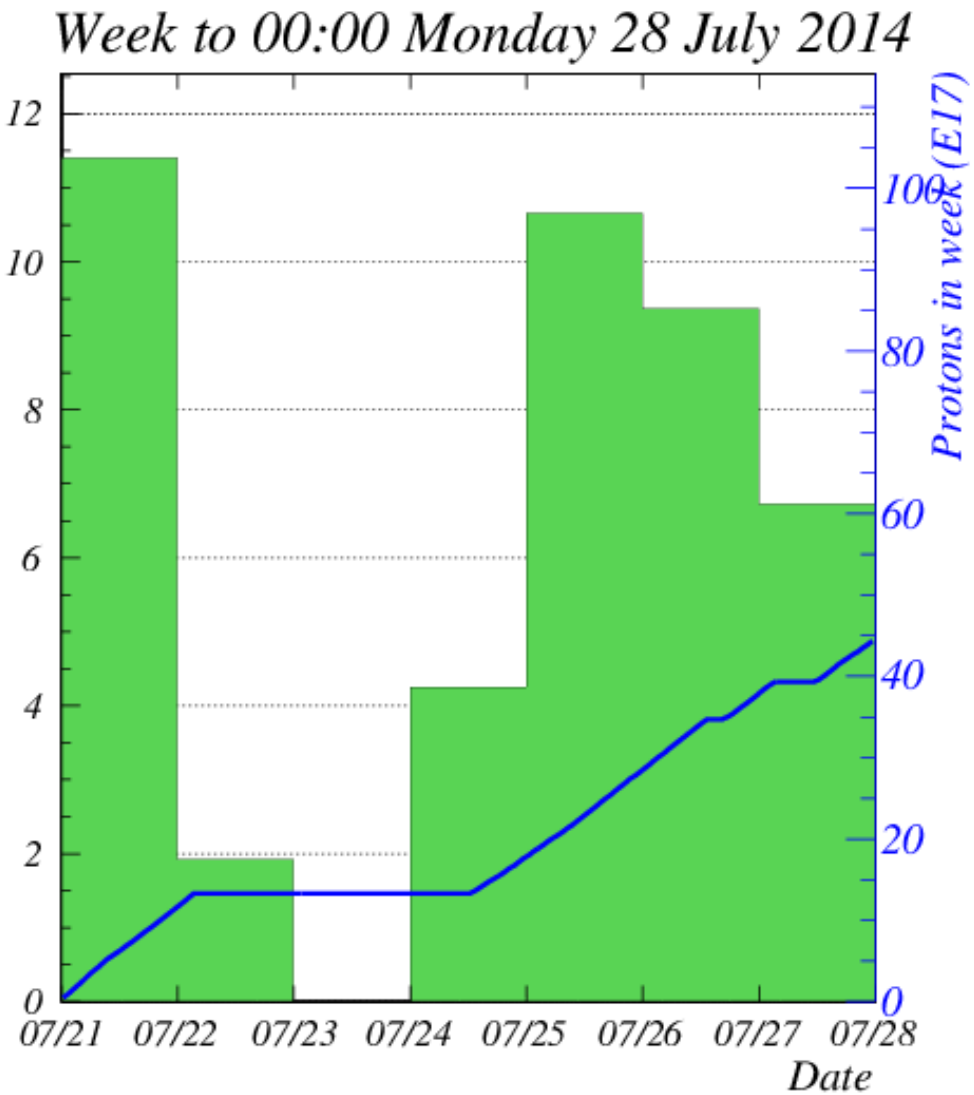
Nuclear target event

NuMI Beam Plots



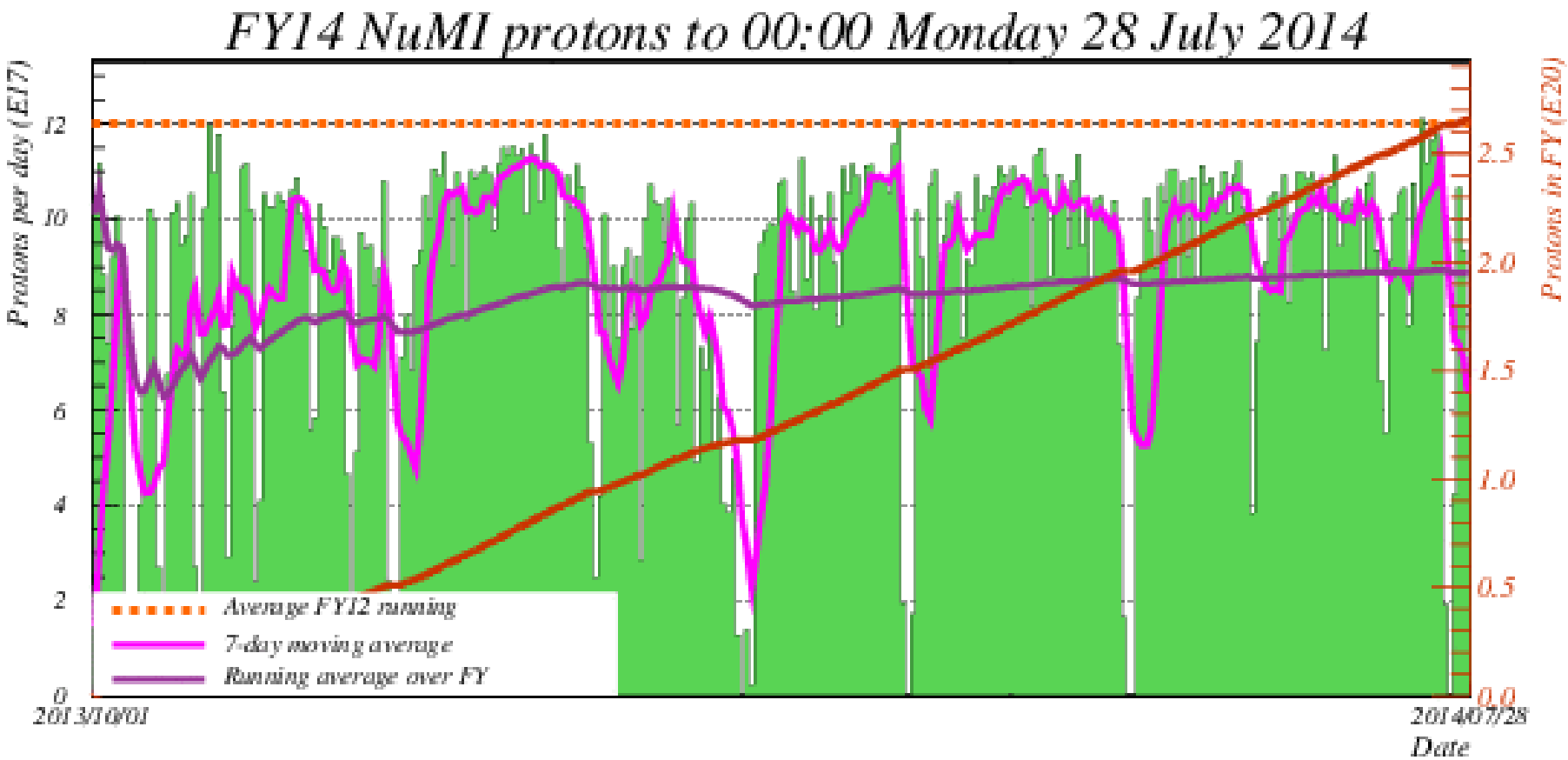


Protons for the Week



0.44×10^{19} POT
July 21 - 27, 2014

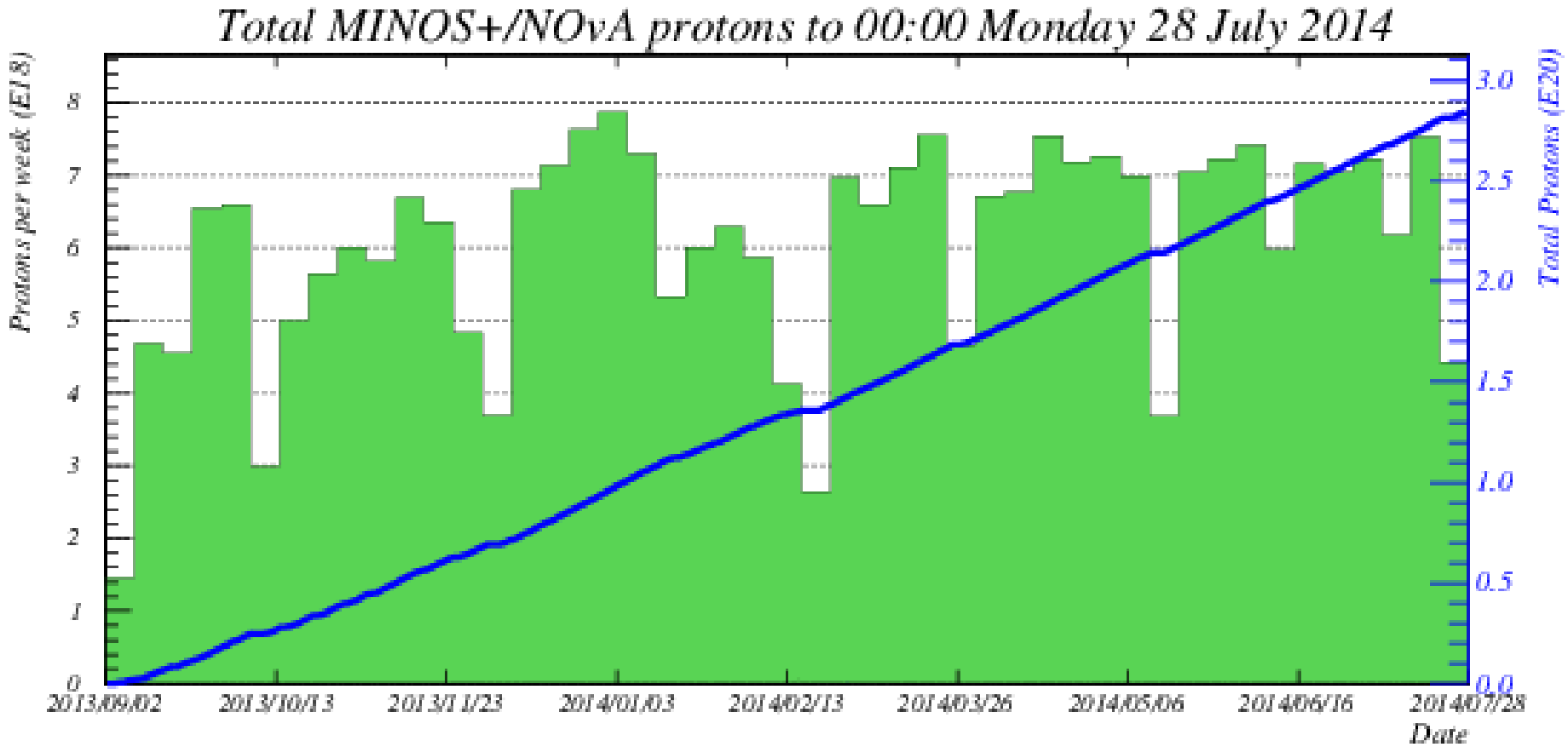
FY2014 Protons



26.61×10^{19} POT

Oct 1 2013- July 20 2014

Protons for ME Run



28.38×10^{19} POT

Sep 6, 2013 at 15:00 – July 27, 2014