The MINERνA Operations Report
All Experimenters Meeting

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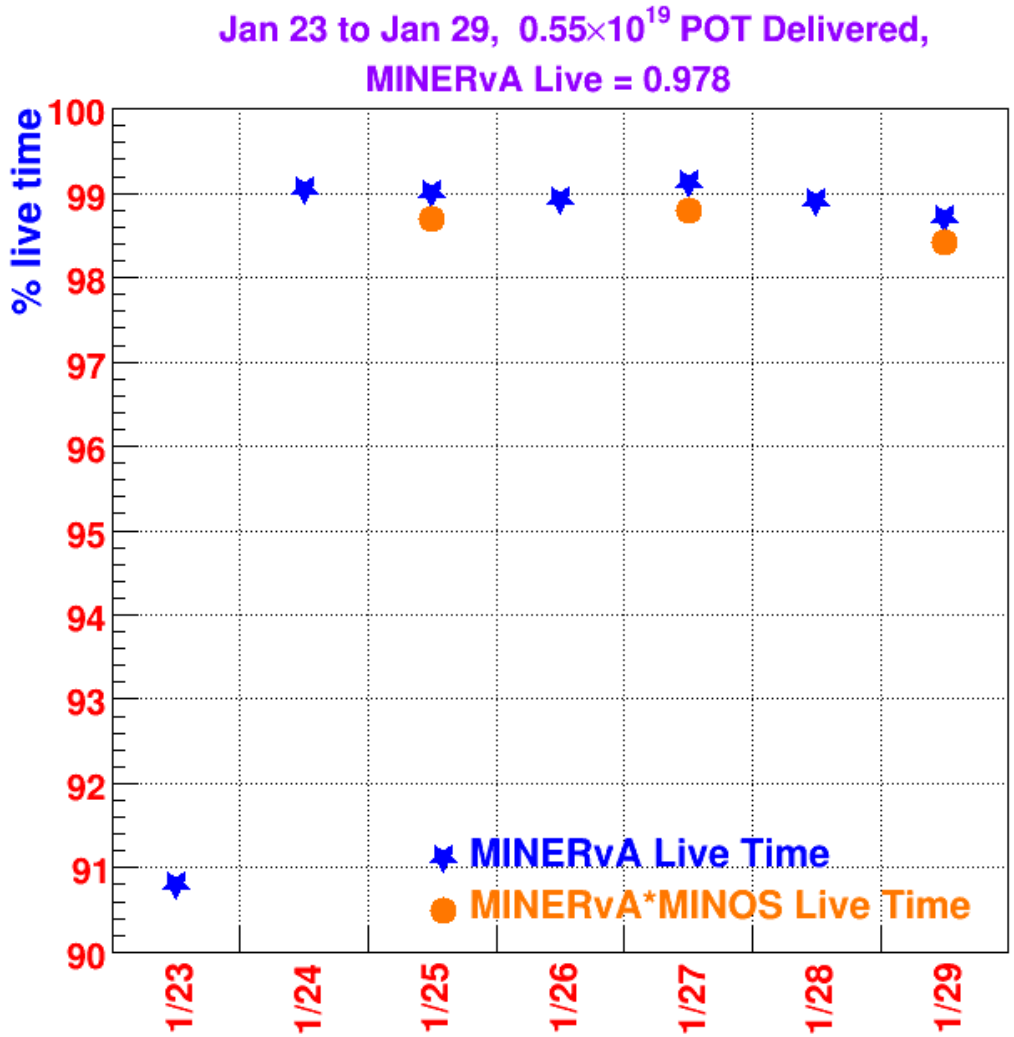
Feb 3, 2014

ν Data



- % live time Jan 23 – 29
  - On Jan 23, FEB a chain was giving errors causing the DAQ to skip to the next sub run. We did not get information on which FEB in the chain it was. We investigated the problem but did not find the FEB. The problem went away. It turned out we were investigating the wrong chain.
- We are starting to include MINOS live time.

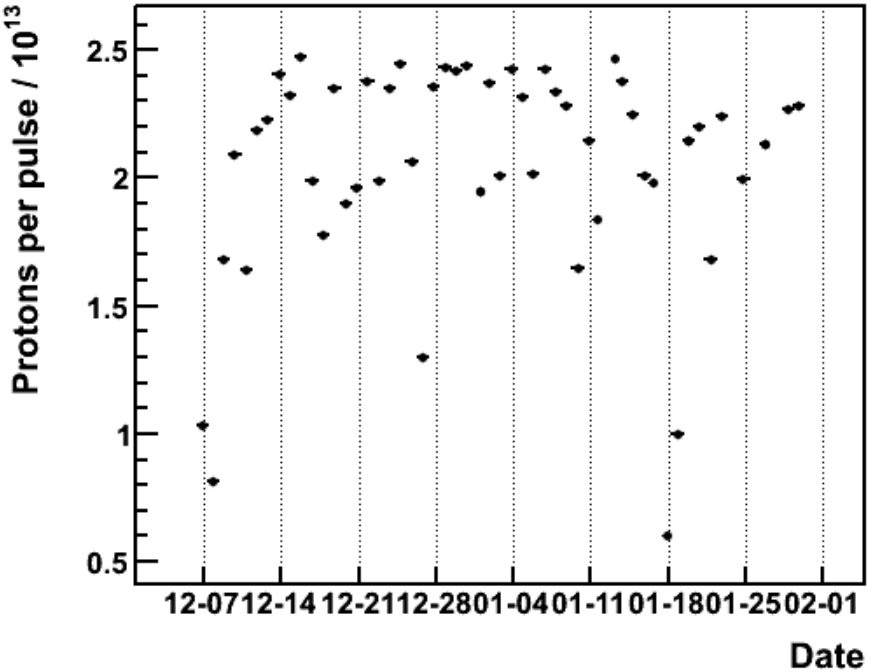
FEB failure

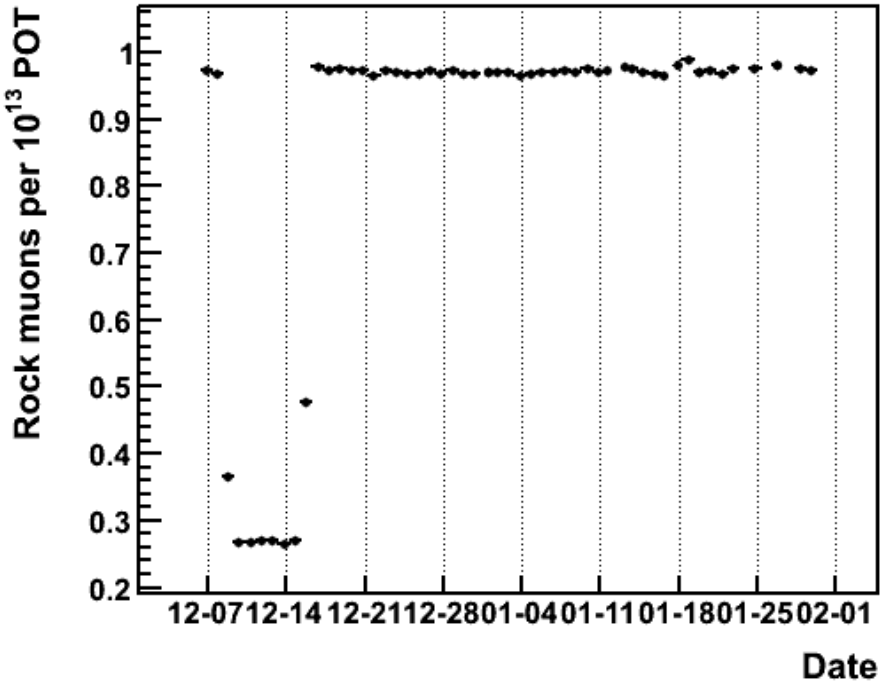
- On Jan 28 a FEB was preventing the DAQ from running. This chain reads out the veto counters for the He target. There are only 2 FEBs on this chain, but the software did not tell us which FEB it was. One of the FEBs was replaced and we were able to run, so we think we replaced the failed FEB.
  - The beam was down during the replacement
  - The PPD EED Division is working on giving us better diagnostics on which FEB is causing the failure.

Filling the He Target

- The He target is full.
- Data taking starts on the He target when the target is in thermal equilibrium
  - This should happen in the latter part of this week
  - We determine He target is in thermal equilibrium when the power on cryocooler heater stops changing
    - The heater on the cryocooler which balances the excess refrigeration.
  - The density is a function of temperature
- The roof can be put on over the He target and veto.
  - Put on over a downtime
  - As we would like to move the hook ~1/2" on one of the panels to make it easier to connect to the spreader bar, we hope to do this over an 8 hour down time.
  - There is a drip pan over the veto counters and this can dump water on the veto counters, but not on the main detector

Rock Muons/POT





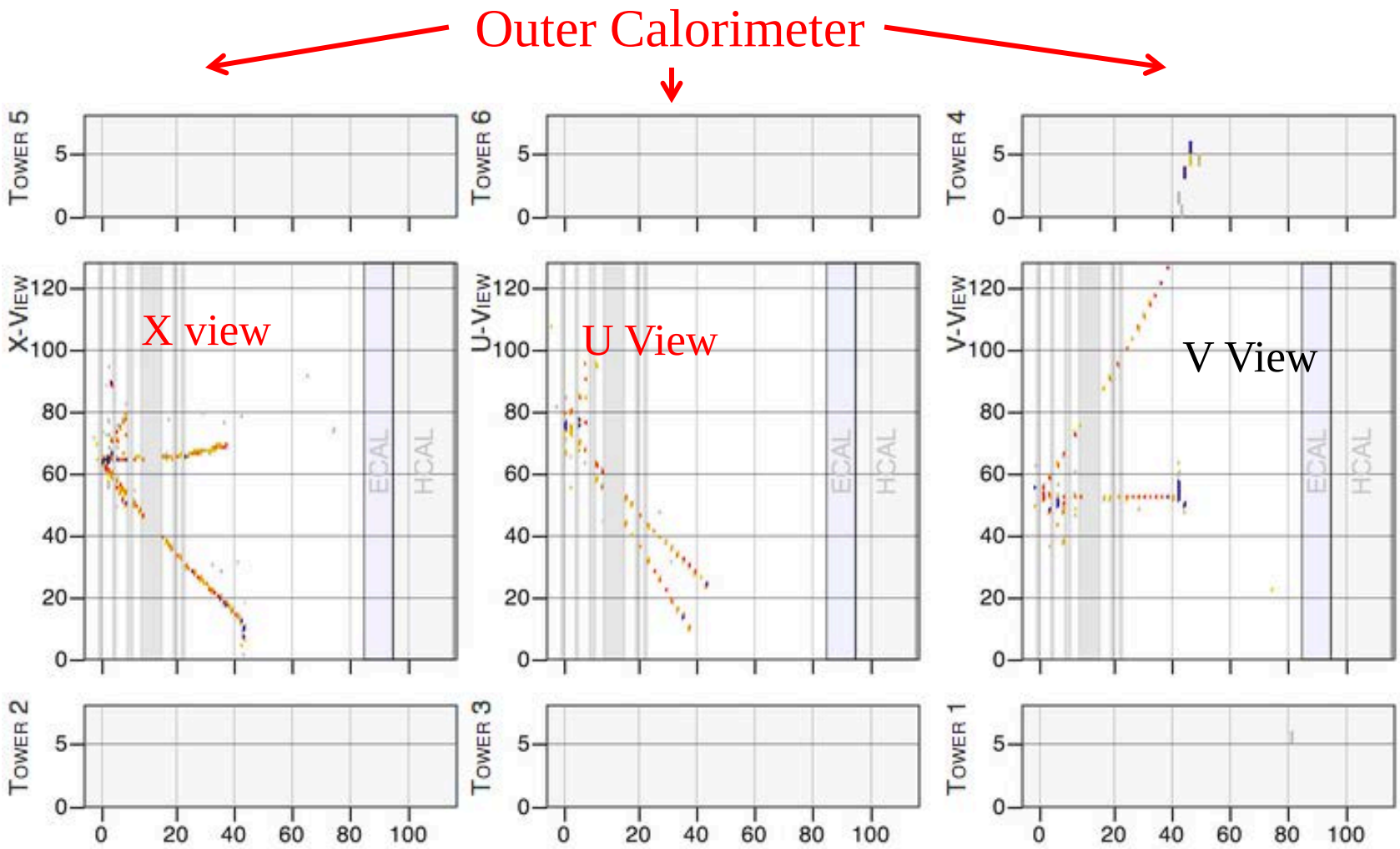
- Rock muons are muons generated in the berm, not the detector.
- Plot of rock muons/POT. The low region at the beginning of Dec was horn off studies.
- Rock muons/POT is constant

Status of Muon Monitor 4

Muon Monitor 4 Gas Rack

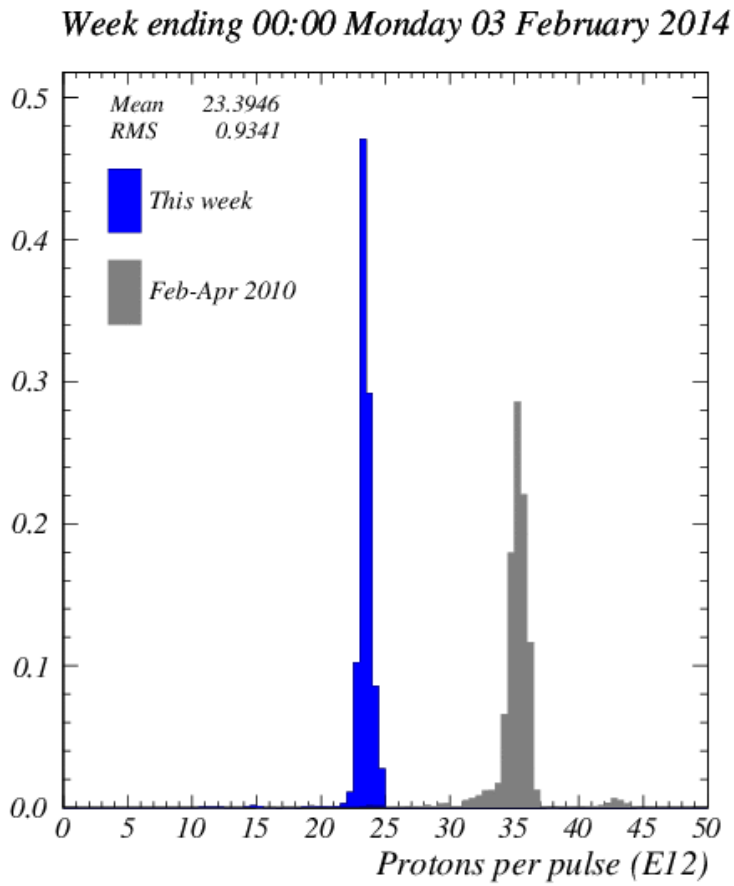
- Tasks preformed last week
  - Run 4 RG58 (1 spare) cables from gas rack to MADC for 1 flow meter and 2 pressure transducers
  - Install second smoke sensor and interlock cable connecting the electronics and gas rack.
- Do to
  - Install pressure transducer in the gas line in the alcove
    - Done by AD techs during beam down time.
  - Finish documentation for the ORC for gas rack
  - Get ORC for gas rack
  - Connect to main helium gas supply

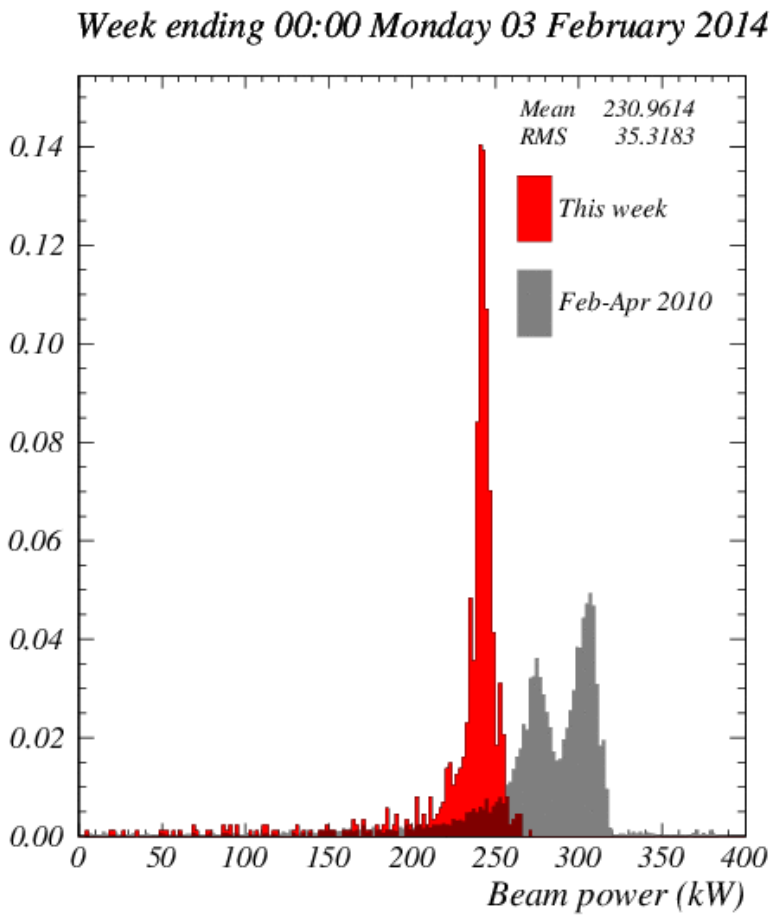
Event Display



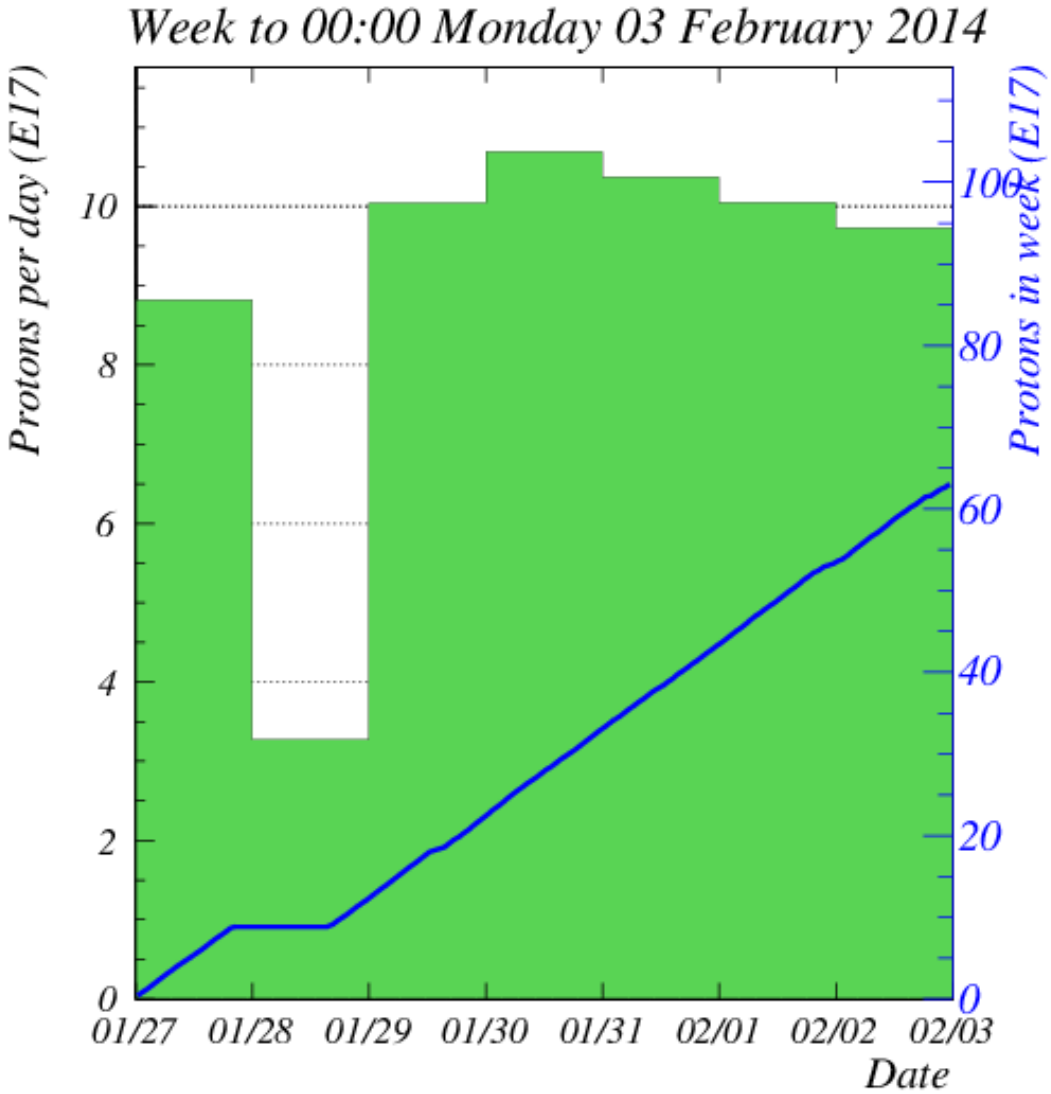
Nuclear Target Event

NuMI Beam Plots



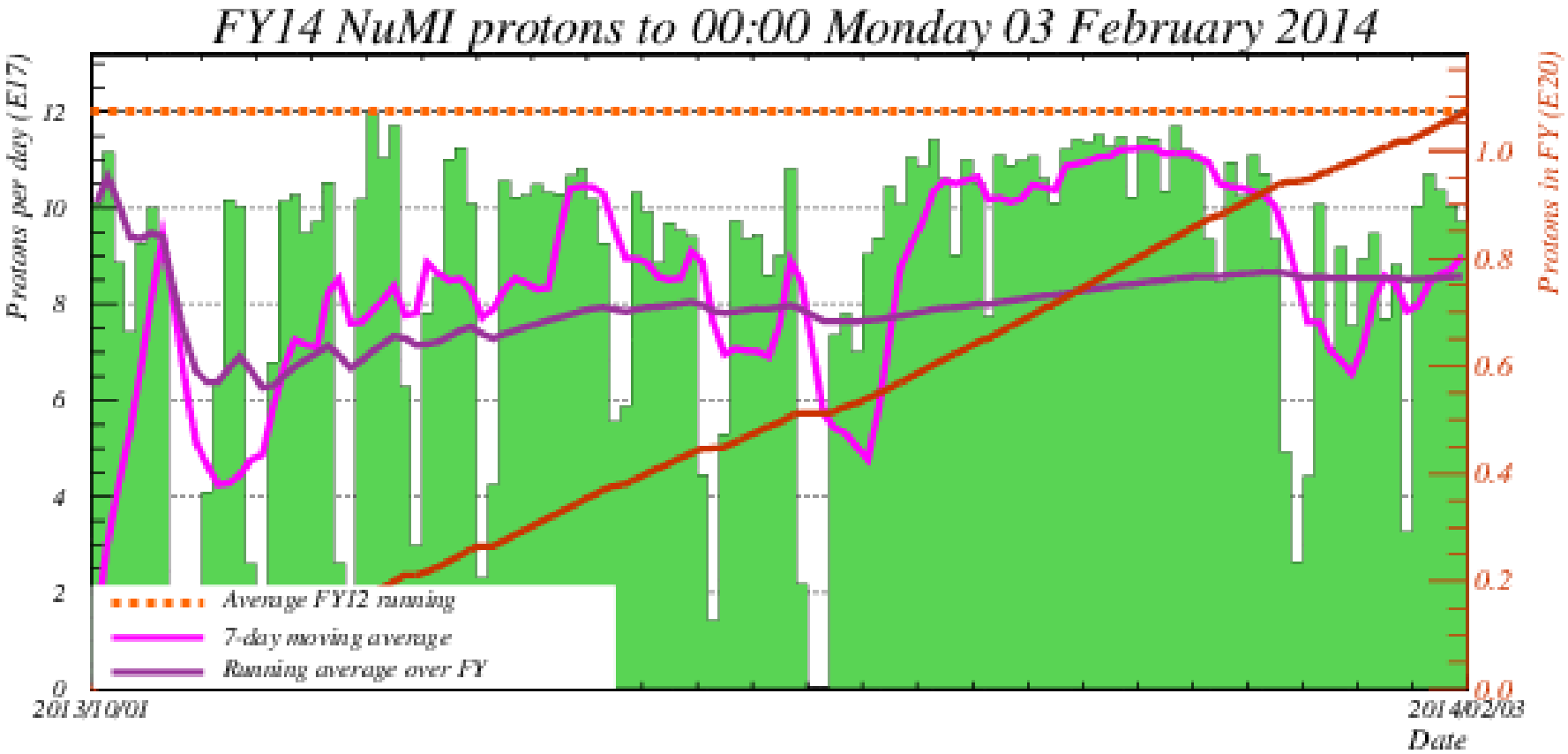


Protons for the Week



0.63×10^{19} POT
Jan 27-Feb 2 2014

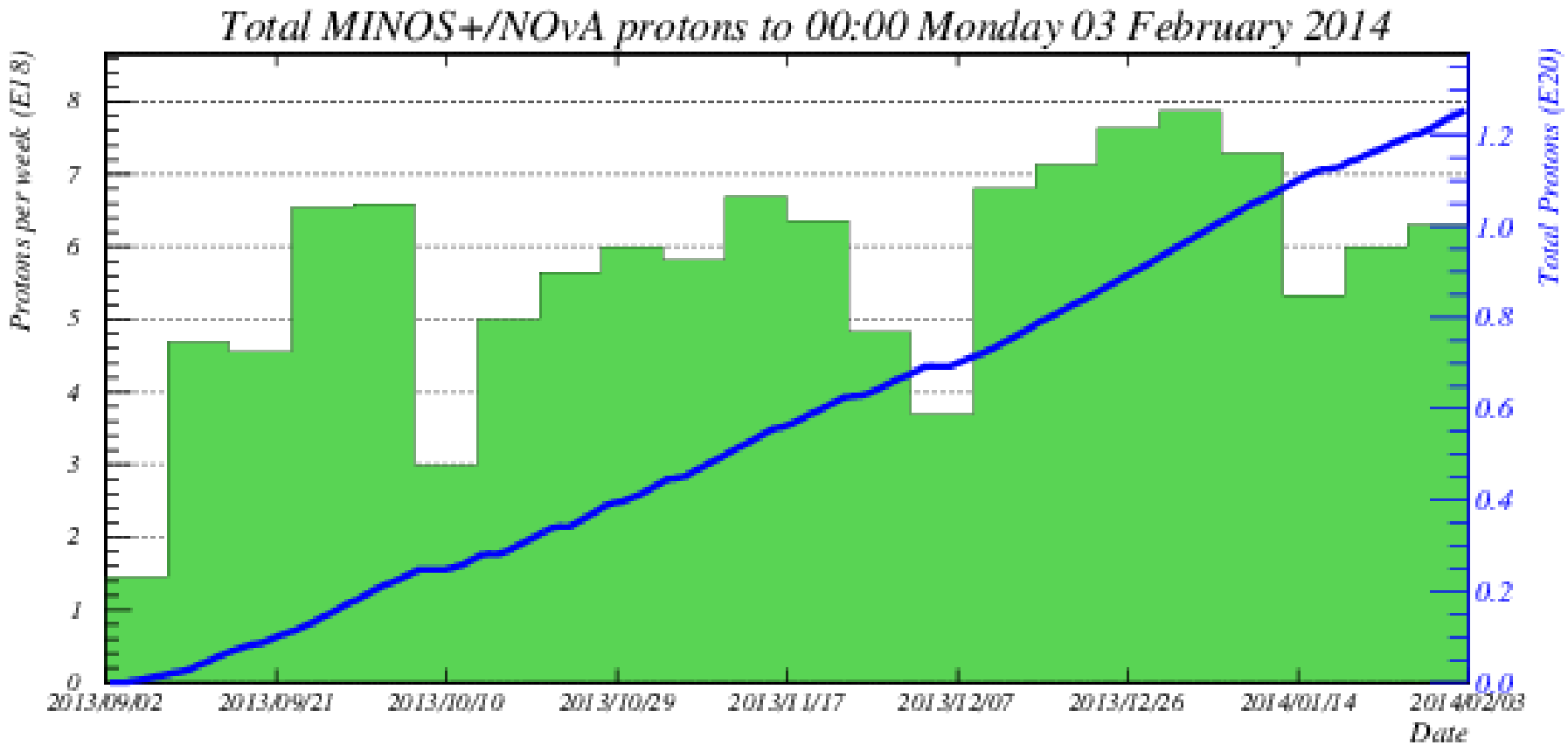
FY2014 Protons



10.71×10^{19} POT

Oct 1 2013- Feb 2 2014

Protons for ME Run



12.49×10^{19} POT

Sep 6 2013 at 15:00 – Feb 2 2014