

The MINERvA Operations Report

All Experimenters Meeting

Howard Budd, University of Rochester
Jun 9, 2014

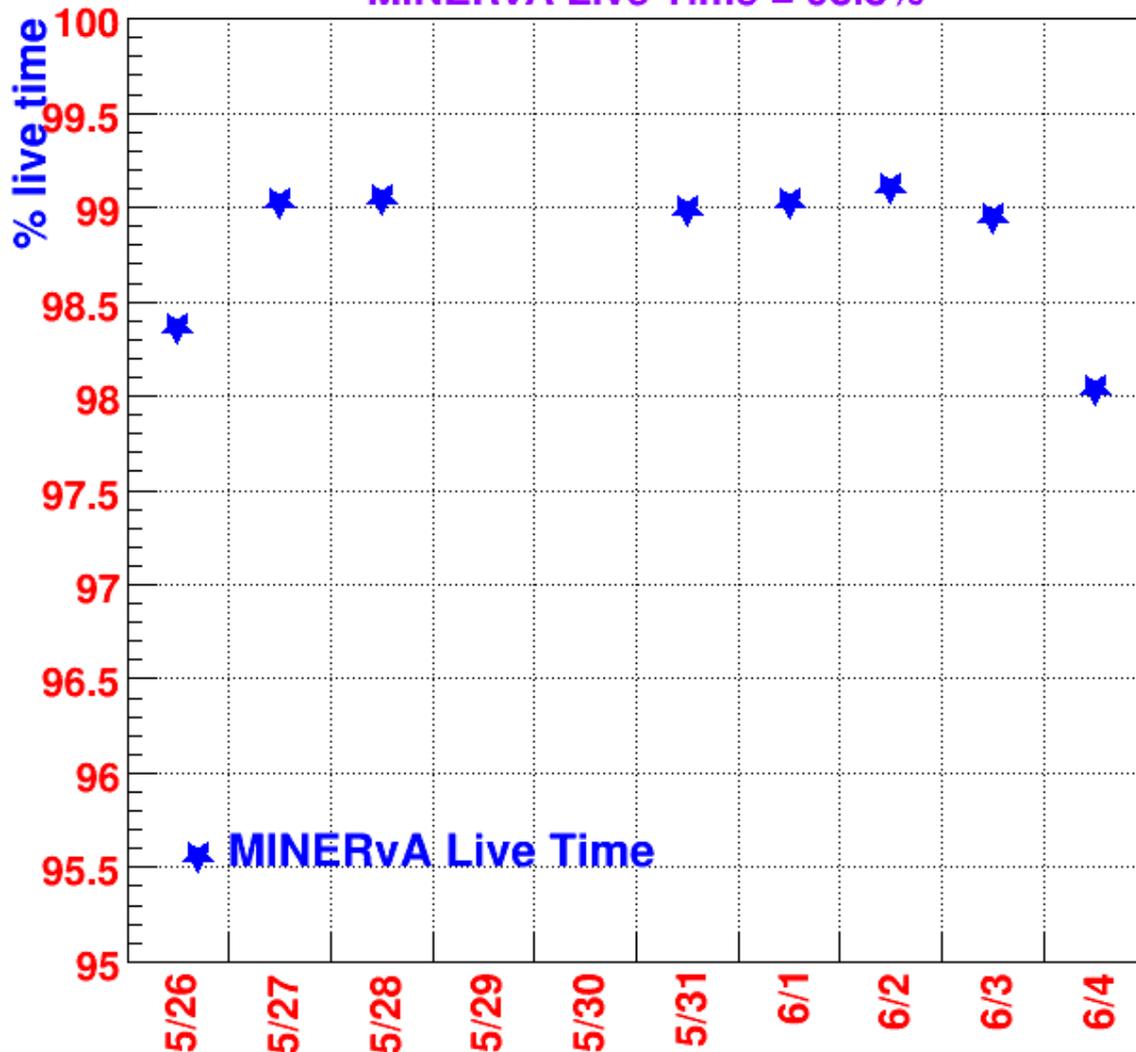




v Data



May 26 to Jun 4, 0.83×10^{19} POT Delivered
MINERvA Live Time = 98.8%



- Live time May 26-Jun 4
- The calculated live time for May 29-30 is not correct.
- We have a program “uptime” which tells us if data exists and is analyzed over some period of time. “uptime” states that we were taking data with no gaps in data taking or in analysis on May 29-30
- We are investigating what the problem is.



BlueArc Shutdown on Jun 5 Starting Midnight



- The general grid downtime started June 5 at midnight & affected the BlueArc disk. MINERvA real time neutrino data monitoring requires nusoft app which was not available.
- Instead the following link was made available <http://minerva-wbm.fnal.gov/minerva/>
- This monitoring, called E-Checklist, uses DSTs created by the Nearline process and is high statistics.
- The Nearline process moves the raw data files to a “swap” area, which was not part of the BlueArc shutdown. The CRON job which moves these files to create these DSTs checked the other volumes of BlueArc to be sure they are up. This check was not needed.



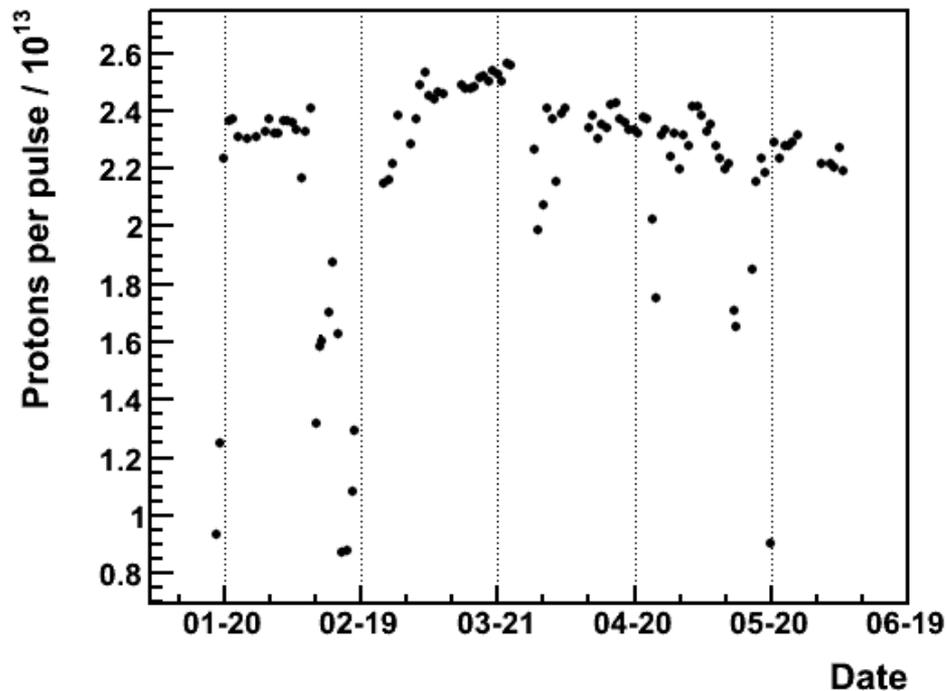
BlueArc Shutdown on Jun 5 Starting Midnight



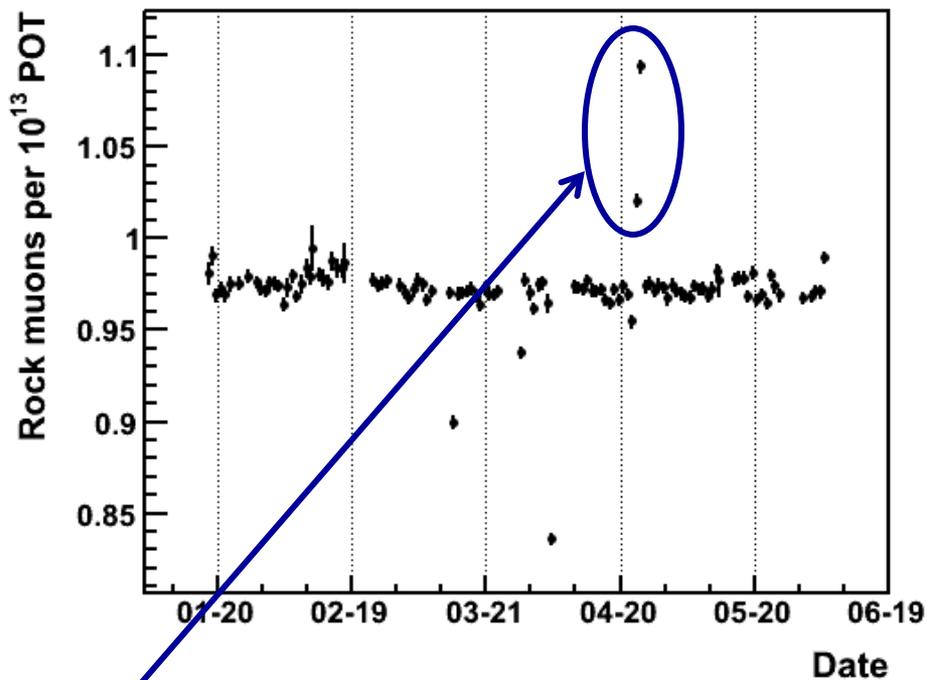
- Therefore, no files were moved and no DSTs were created for the E-Checklist during the OWL shift
- The problem was resolved in morning when the mistake in the CRON job was discovered.
- The only way to have found this error would be to do a BlueArc disconnect test.
- The online monitoring, which did work, looks at the data being taken with low statistics.
- Having the BlueArc shutdown start at midnight created a problem in contacting the right person to fix the problem.
- Nothing went wrong with the detector during the time the E-Checklist was down.



Rock Muons/POT



POT/Pulse

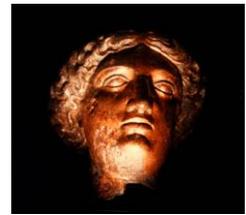


Rock Muons/POT

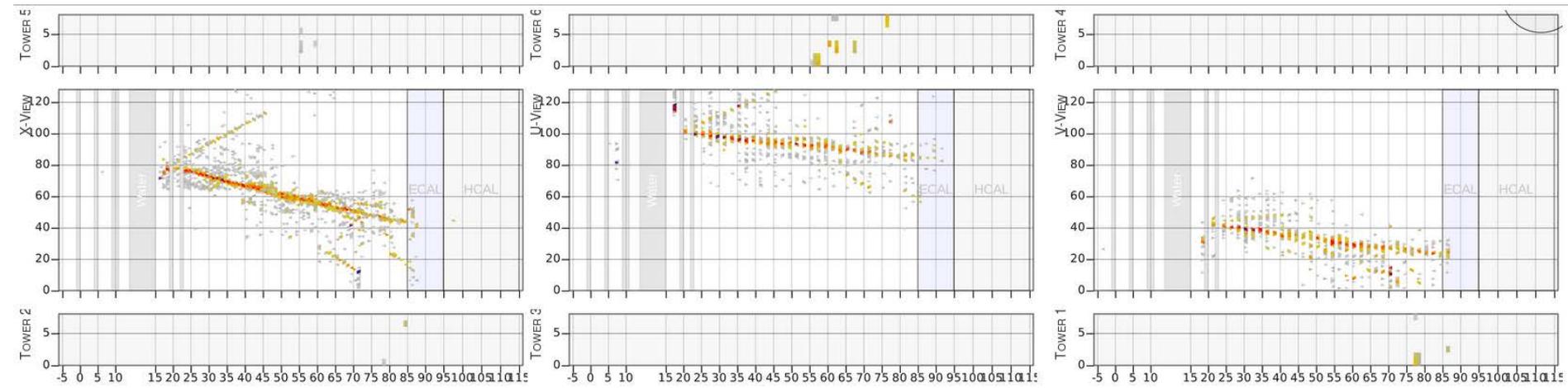
- Still investigating these points



Event Display



Outer Calorimeter



X View

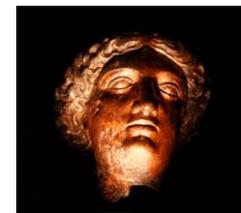
U View

V View

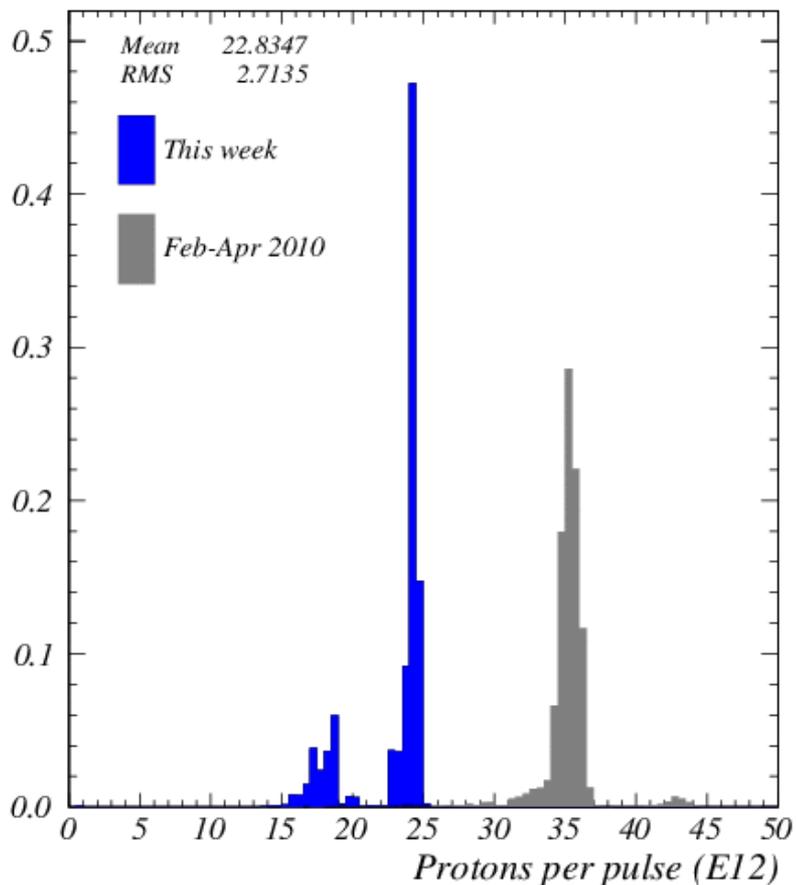
Nuclear Target Event



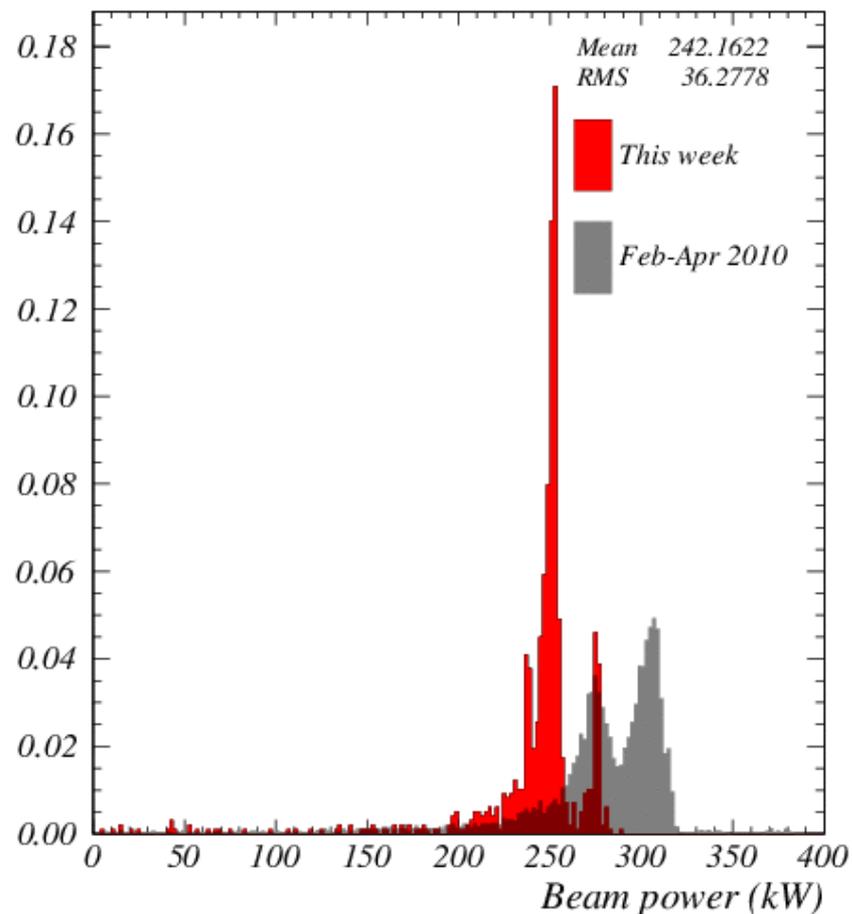
NuMI Beam Plots



Week ending 00:00 Monday 09 June 2014

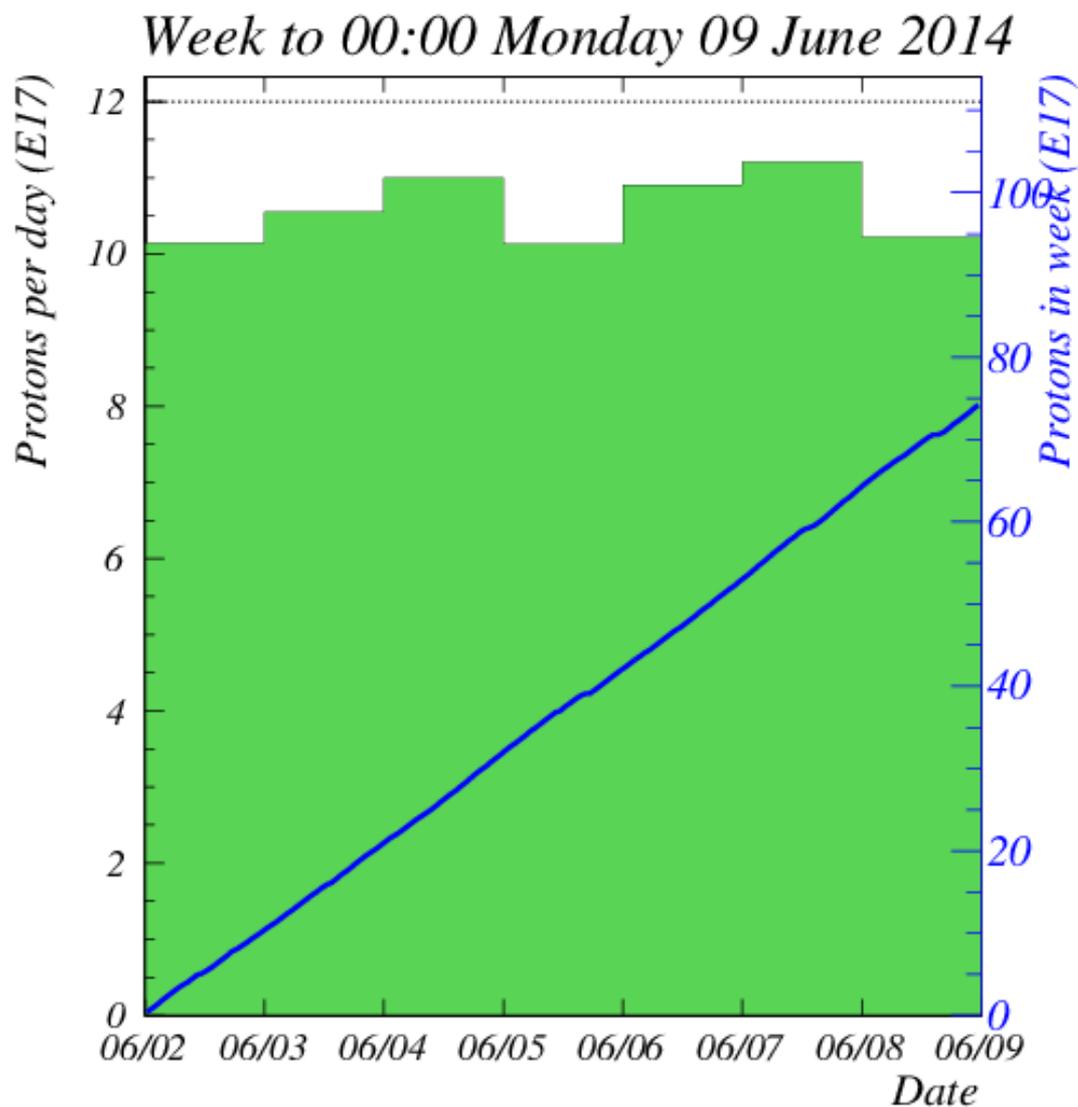


Week ending 00:00 Monday 09 June 2014

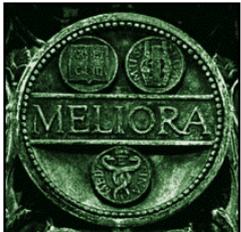




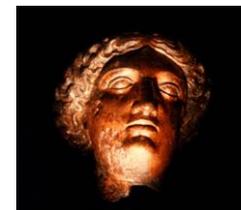
Protons for the Week



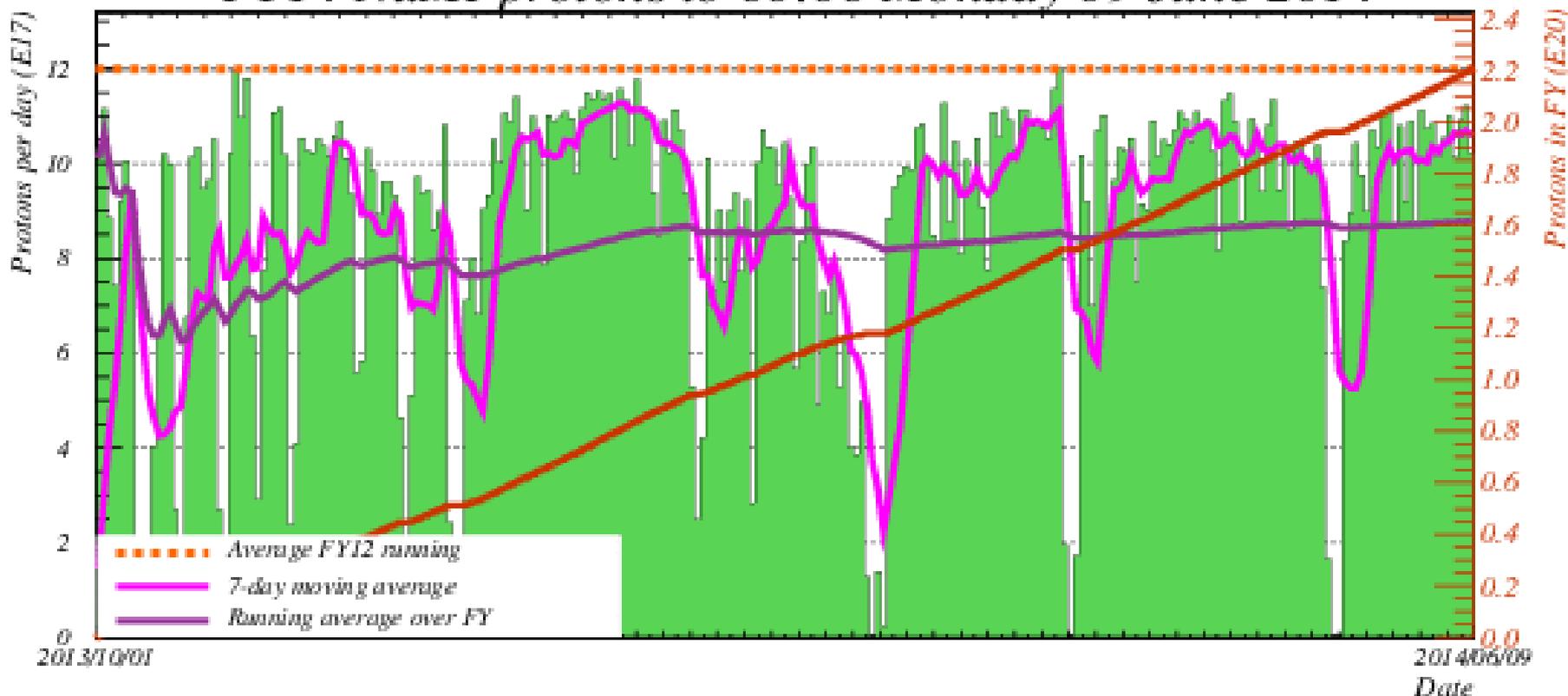
0.74×10^{19} POT
Jun 2-8, 2014



FY2014 Protons

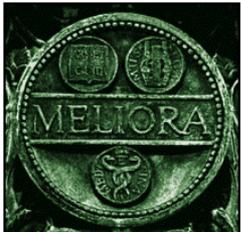


FY14 NuMI protons to 00:00 Monday 09 June 2014



22.06×10^{19} POT

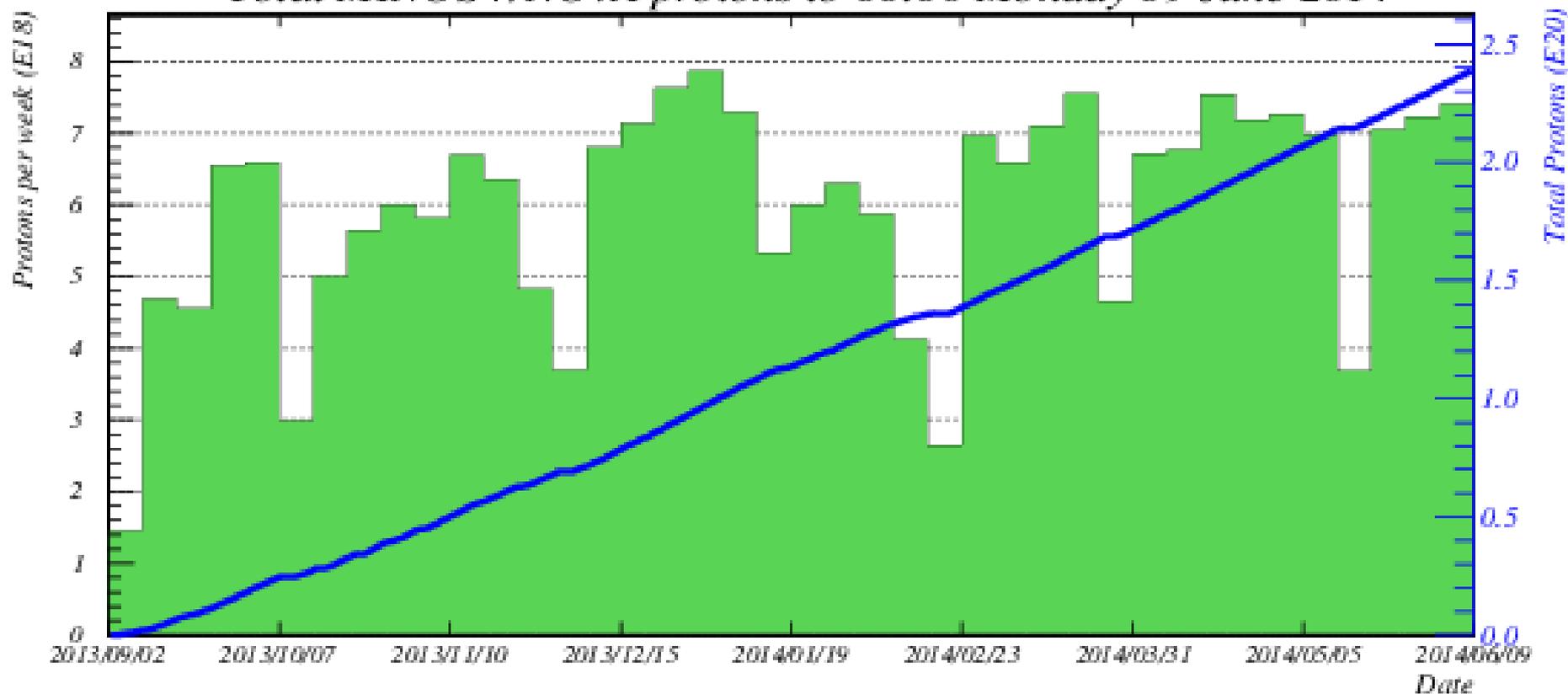
Oct 1 2013- Jun 8 2014



Protons for ME Run



Total MINOS+/NOvA protons to 00:00 Monday 09 June 2014



23.84×10^{19} POT

Sep 6 2013 at 15:00 – Jun 9 2014