

The MINERvA Operations Report

All Experimenters Meeting

Howard Budd, University of Rochester
Feb 2, 2015

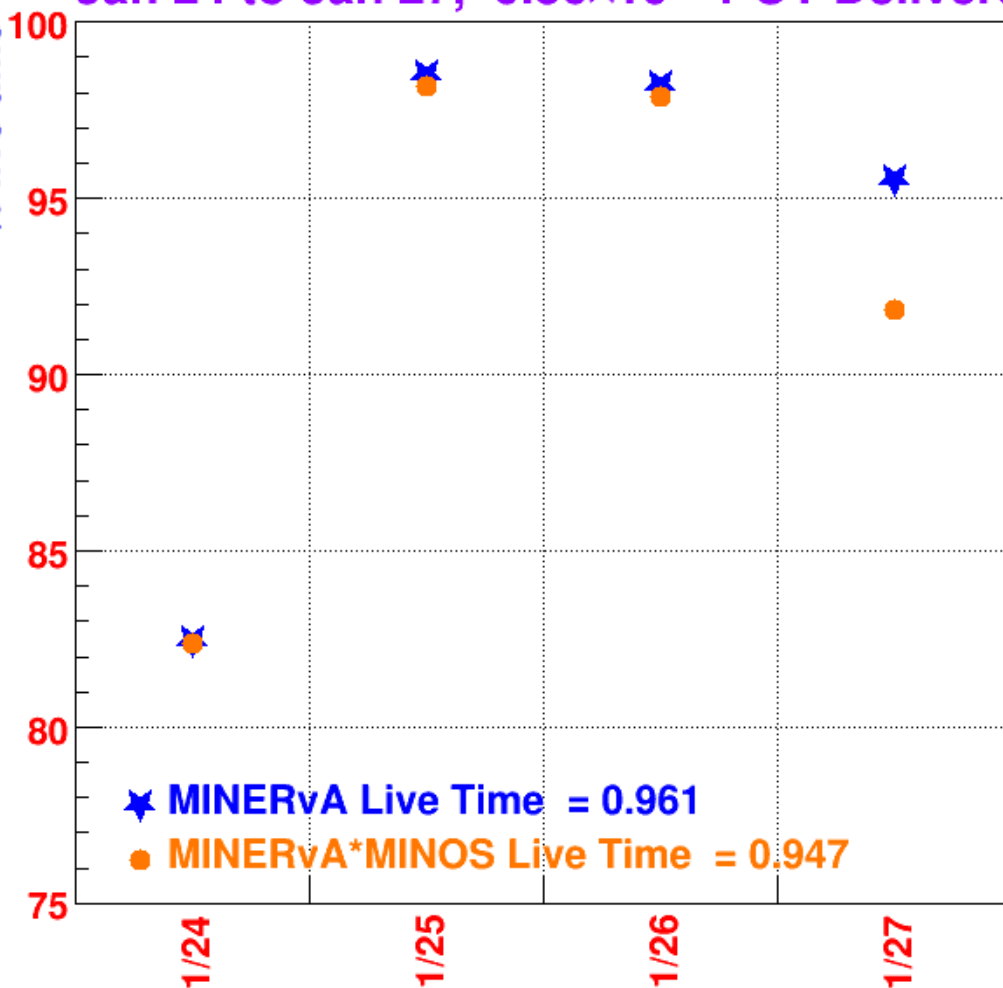




ν Data



Jan 24 to Jan 27, 0.36×10^{19} POT Delivered



- Live time, Jan 24 - 27
- MINERvA 96.1%
- MINERvA*MINOS 94.7%
- Jan 24 - Run Control and the DAQ stopped running and numerous attempts were made to get it going. DAQ started using software commands.
- Jan 27 - Switched DAQ computer from mnvonline0 to mnvonline03
- Jan 28 - Lower efficiency but not clear why. It will be presented next week.



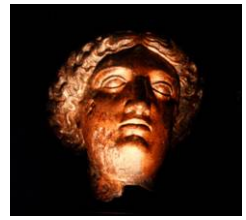
New DAQ Computer



- We replaced the old DAQ computer, mnvonline0, with the new DAQ computer, mnvonline03, on Jan 27 2015.
 - During the accelerator shutdown, we tested mnvonline03 as the DAQ computer for PED, and LI and it worked.
 - The change over went well.
 - Despite trying to replicate the DAQ code from mnvonline0 to 03, not all the code & script updates made it over. One place in specific:
 - The code which forces a new subrun to start if there is a sequencer error. This was fixed on Jan 28.
 - If there is a sequencer error all the events past the sequencer error in the subrun are bad.



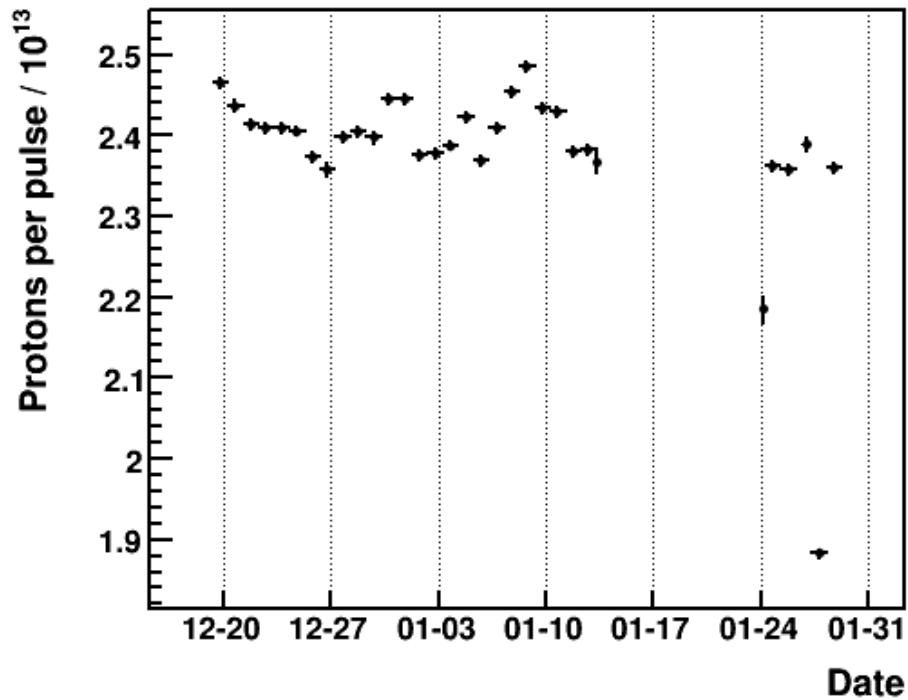
New DAQ computer



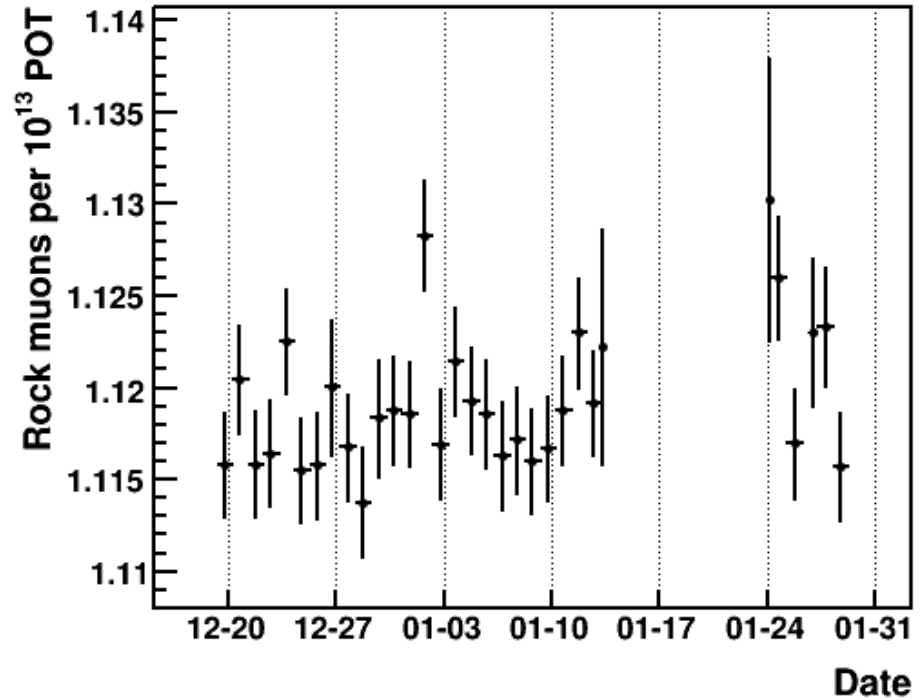
- In addition, we are seeing an increase in runs with the data header problem, as described in last weeks talk.
 - A data header has a bad frame length, which causes the data be unpacked incorrectly in the offline system. The remaining events in the subrun are unusable.
 - Donatella has a fix which enables the offline to analyze all the events in the subrun. We will probably implement this fix this week.
- Thanks to Geoff Savage and Donatella Torretta for help.



Rock Muons/POT



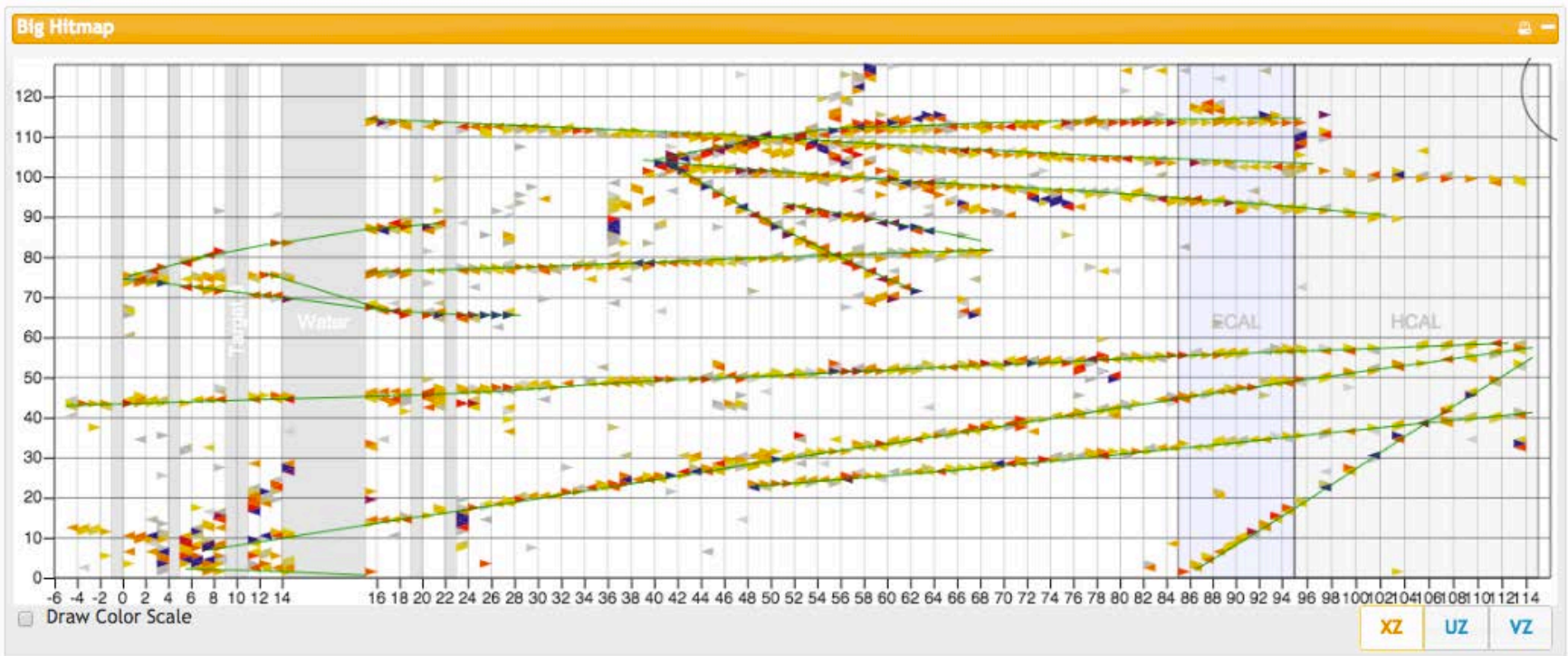
POT/Pulse



Rock Muons/POT



Event Display



One of the 1st Gates with the New DAQ Computer

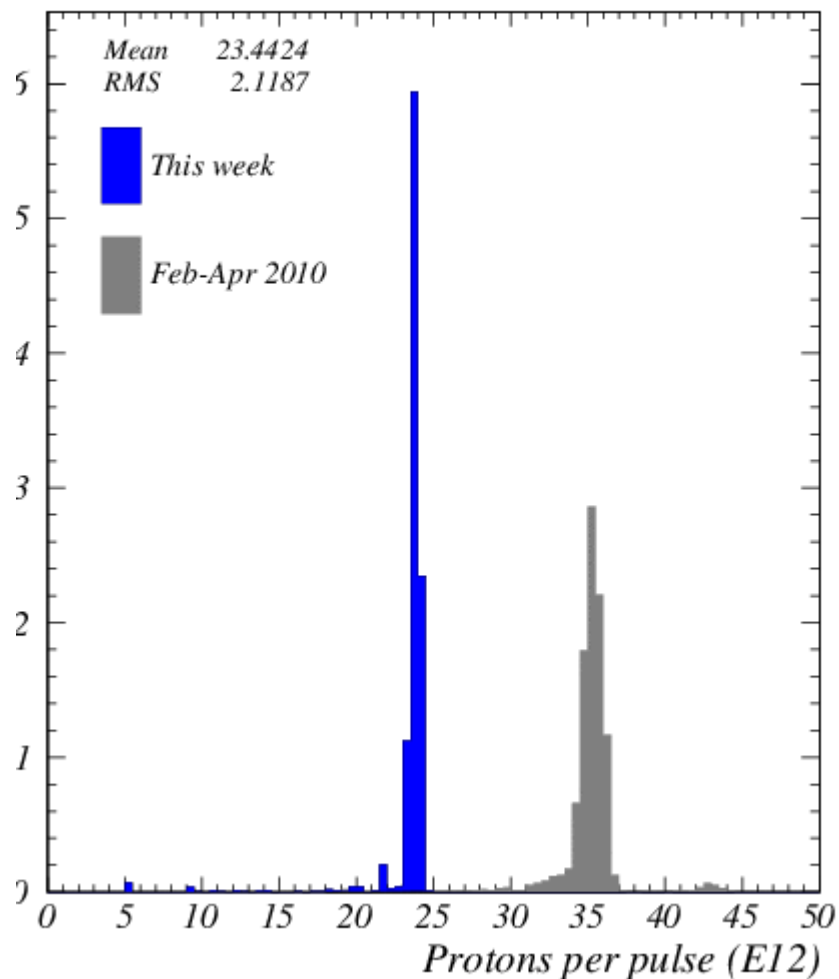


NuMI Beam Plots

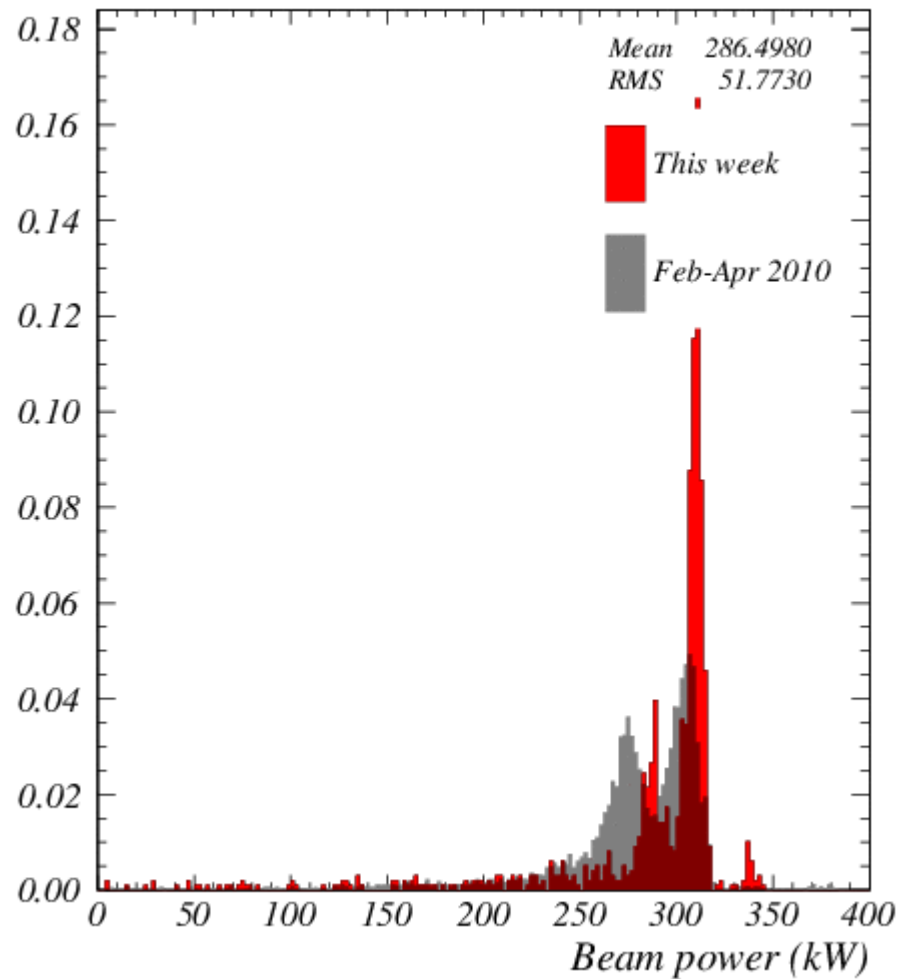
Jan 5-11, 2015



Week ending 00:00 Monday 02 February 2015



Week ending 00:00 Monday 02 February 2015

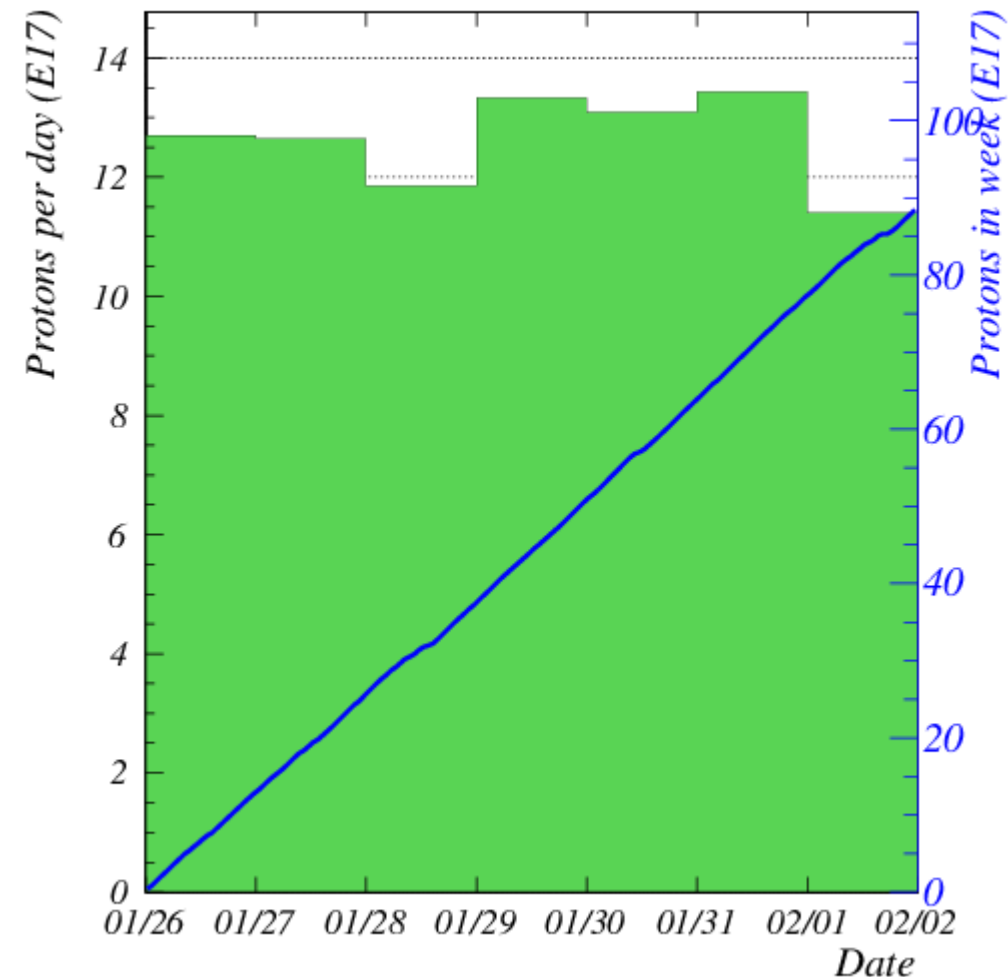




Protons for the Week



Week to 00:00 Monday 02 February 2015

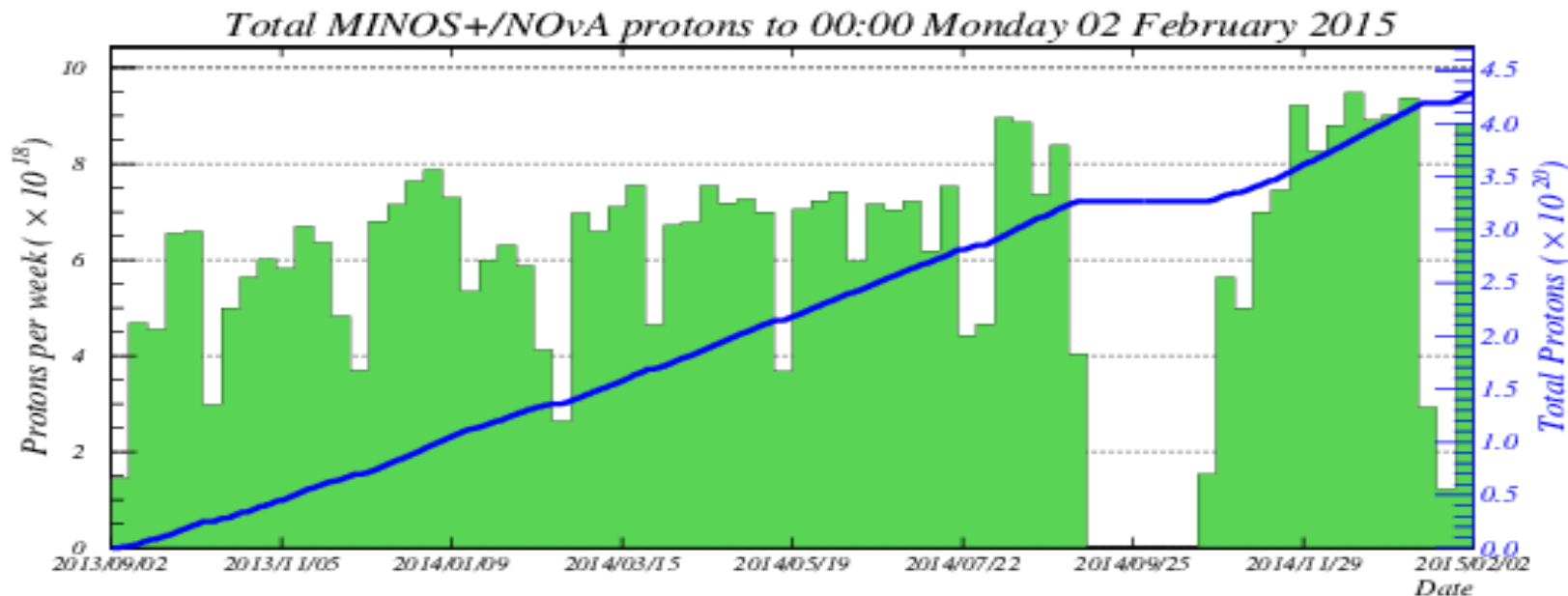


0.88×10^{19} POT
Jan 26 – Feb 1, 2015

Even though this
snowstorm 1/31-2/2
was the 5th largest
Chicago's history at
19.3"



Protons for ME Run



42.88×10^{19} POT

Sep 6, 2013 at 15:00 – Feb 1, 2015

10.27×10^{19} POT, Oct 24 2014 – Feb 1, 2015

According to Gordon by the end of today

$> 2.0 \times 10^{21}$ POT on NuMI target since Dec 3 2004