

# MINER<sub>v</sub>A

# OPERATIONS REPORT

César Castromonte

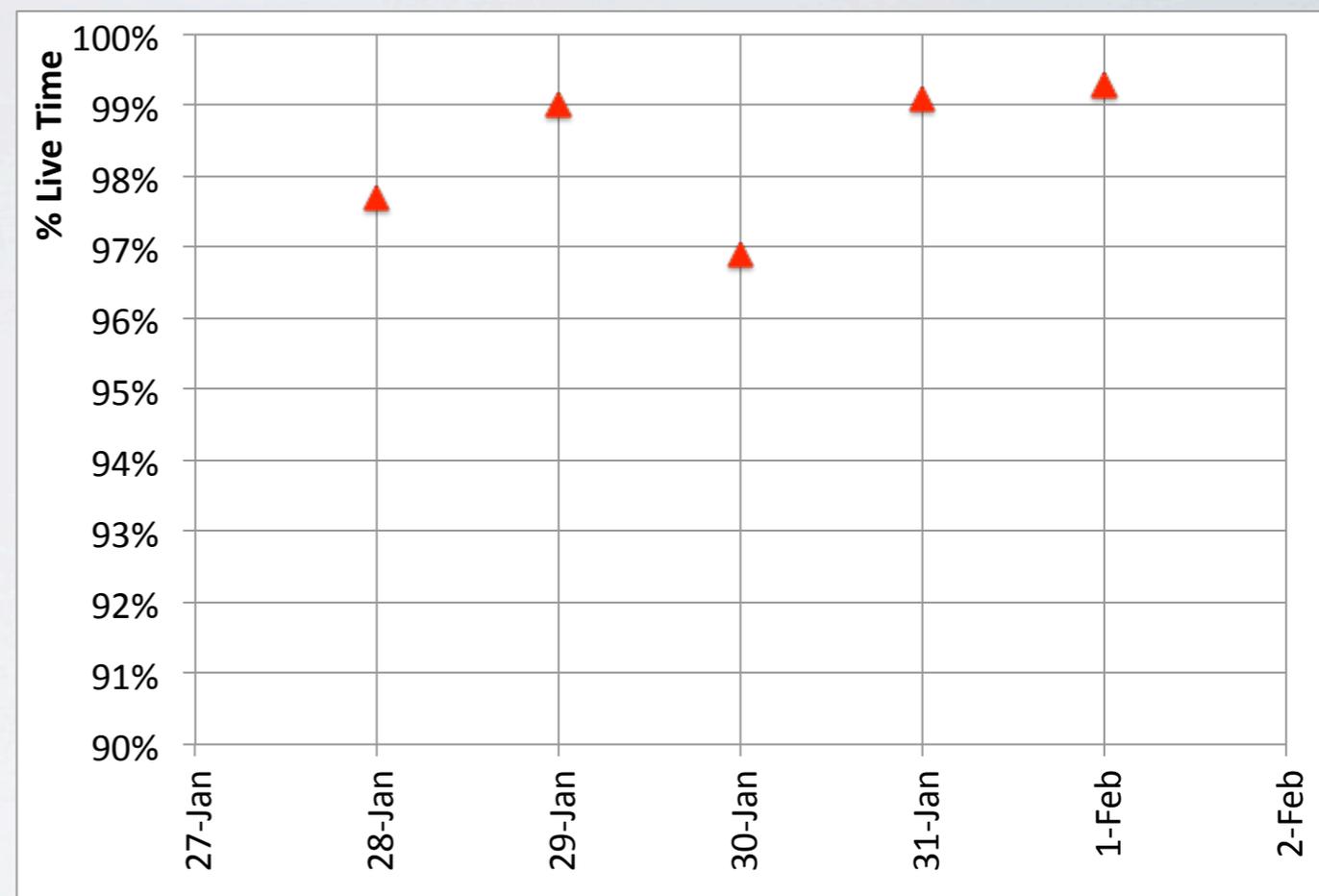
All Experimenters Meeting, Feb. 6, 2012



# $\nu$ Data

- $1.54 \times 10^{20}$  POT with NT-07.
- $1.49 \times 10^{20}$  POT for  $\nu$ , Oct. 6, 2011 - Feb. 2, 2012, LE10 with NT-07.
- NuMI:  $5.05 \times 10^{18}$  POT delivered.
- MINERvA:  $4.95 \times 10^{18}$  POT recorded,  $\sim 98.4\%$  live time.
- Minos:  $99.7\%$  live time.
- MINOS\*MINERvA live time  $98.1\%$ .
- No beam for Feb. 1 & 2 because MI magnet replacement.

% Live time Jan. 27 - Feb. 2



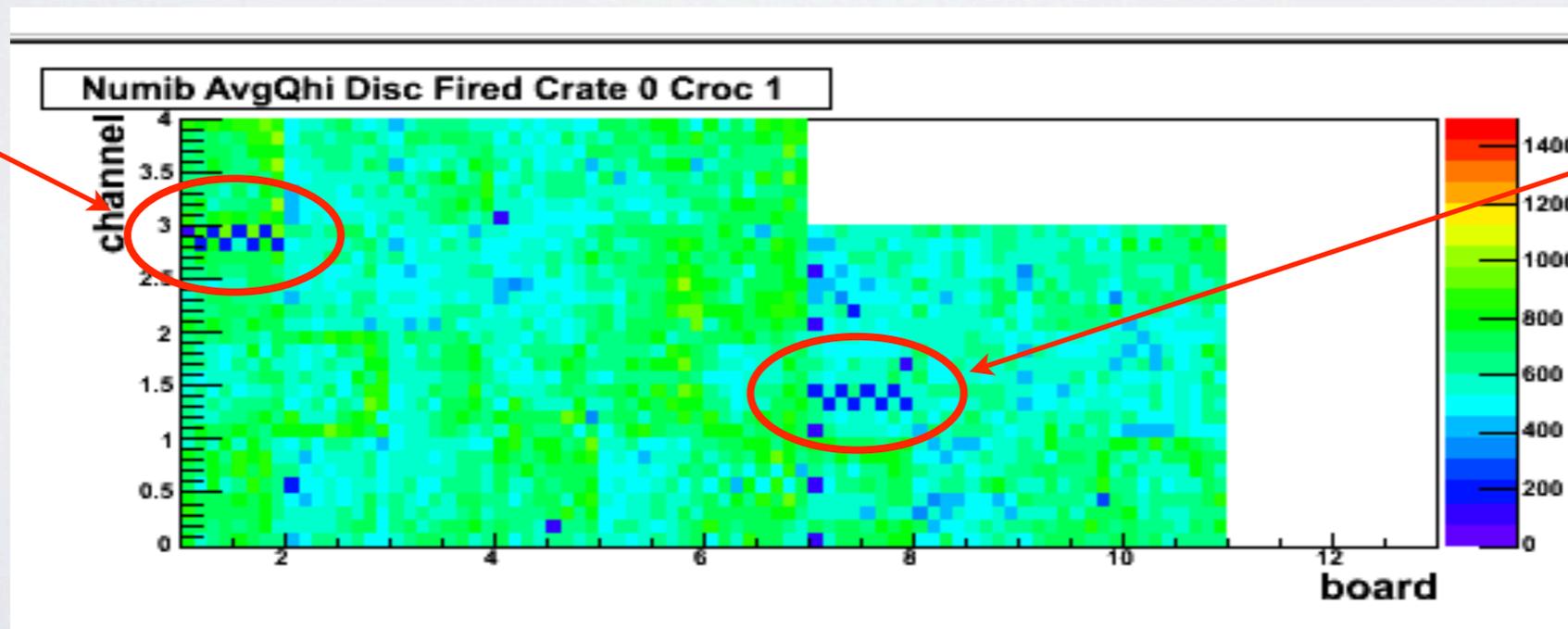


# MINERvA Issues

We took advantage of the beam downtime to address some issues:

- ◆ One Front End Board (FEB) replaced due three dead channels.
- ◆ One FEB has been resetting itself. We interchanged the Readout cables with another set not in the rainy region to determine if the cables were the reason the FEB was being reset.
- ◆ The disk of the “mnvonlinelogger” machine (involved on data taking) died. It was replaced and is OK now.
- ◆ 8.5 gallons of water were added to the water target to bring it back to the original level when the target was installed.
  - ➔ The distance between the target and the planes has been constant since Dec. 16., 2011
- ◆ We checked the connection of about 10 optical cables, as determined by online plots. But found no problems with the connections except for one which was pushed slightly out during the water target installation.

Light leak

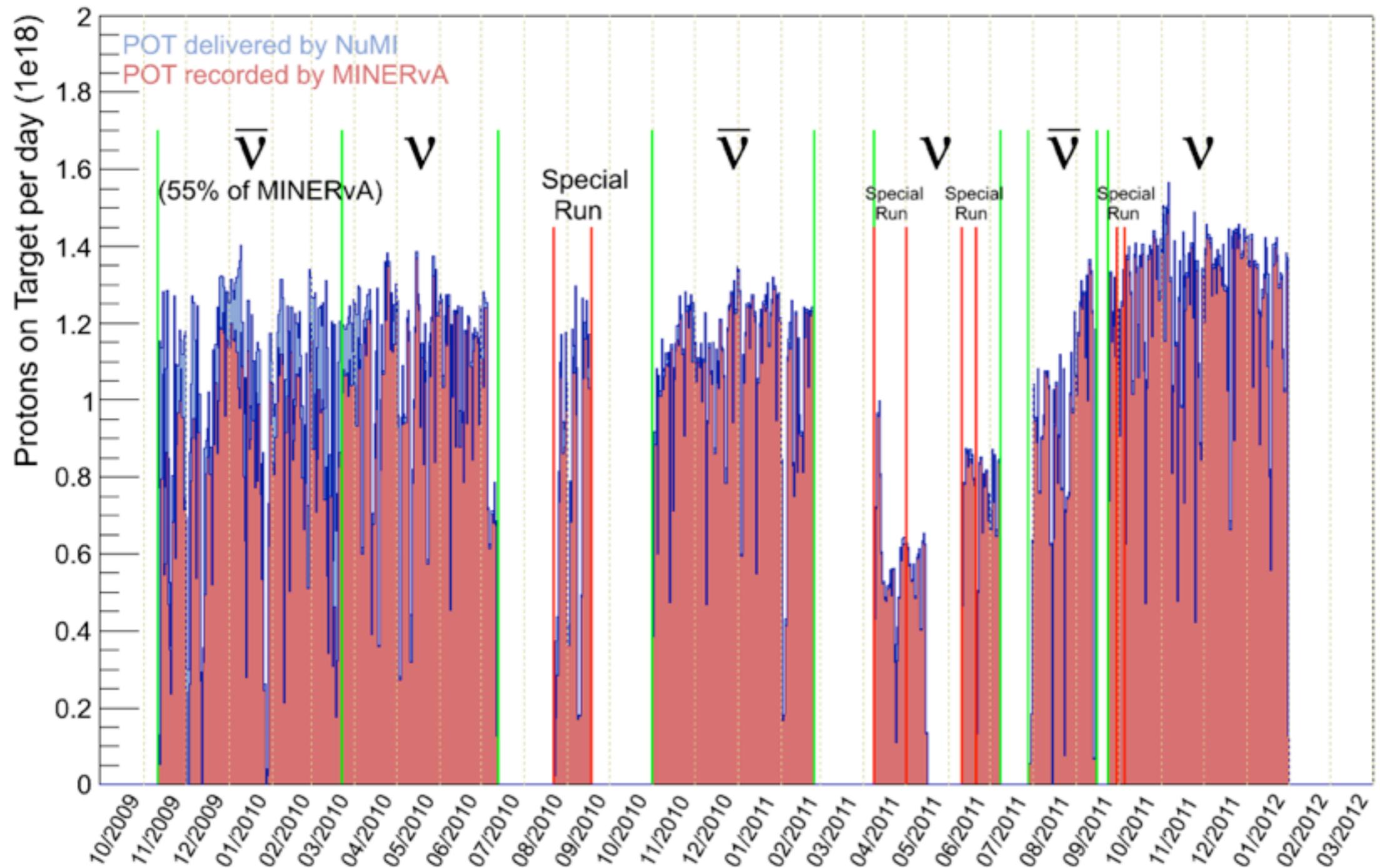


Cable slightly out.

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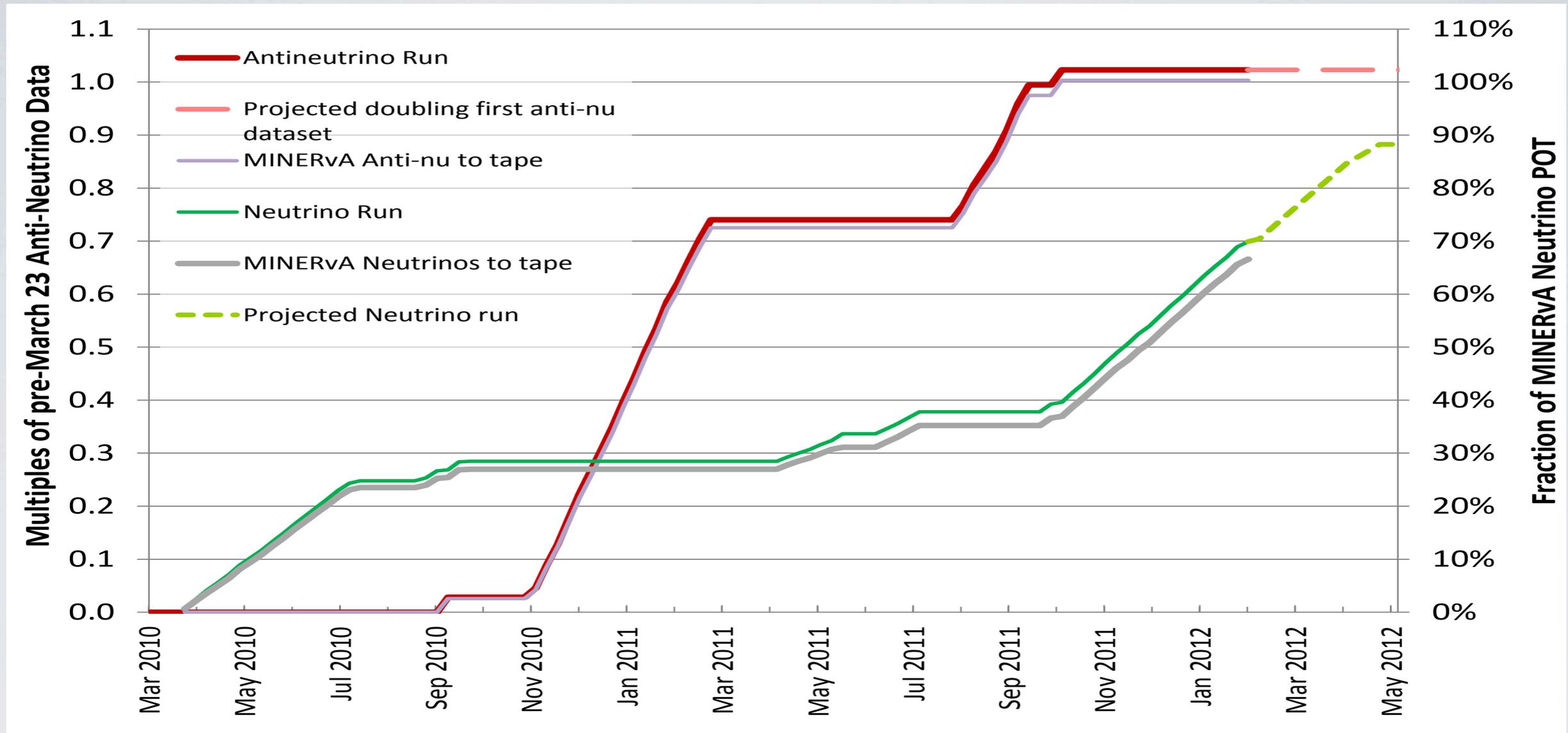
# MINERvA POT/Day Nov. 2009 - Present



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# Accumulated POT to Feb. 2



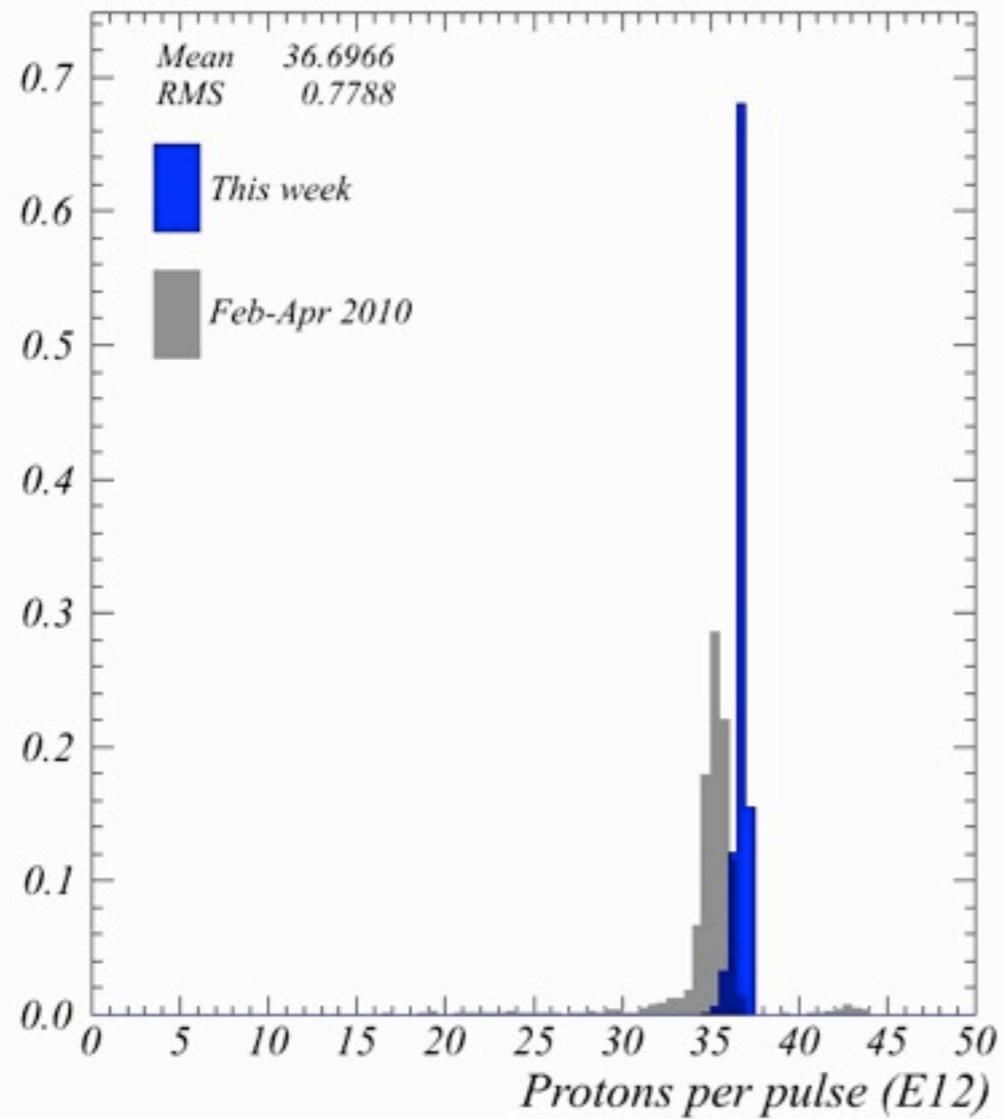
- Anti- $\nu$  run, full scale corresponds to  $1.76 \times 10^{20}$  POT
  - # POT for collected for anti- $\nu$  before Mar 23 10, official start of MINERvA  $\nu$  run
- NT02 running gives enough anti- $\nu$  data for doubling of the 1st anti- $\nu$  data set.
- Minerva run , full scale corresponds to  $4.9 \times 10^{20}$  POT.
  - # for which MINERvA project & experiment were reviewed & the detector built.
- Projected assumes  $0.93 \times 10^{18}$  POT/day.
  - # POTs – average from Oct. 2011 to now.
  - Assumes 8 days MI shutdown & reduced intensity for last 3 weeks.

C. Castromonte, AEM Feb. 6, 2012

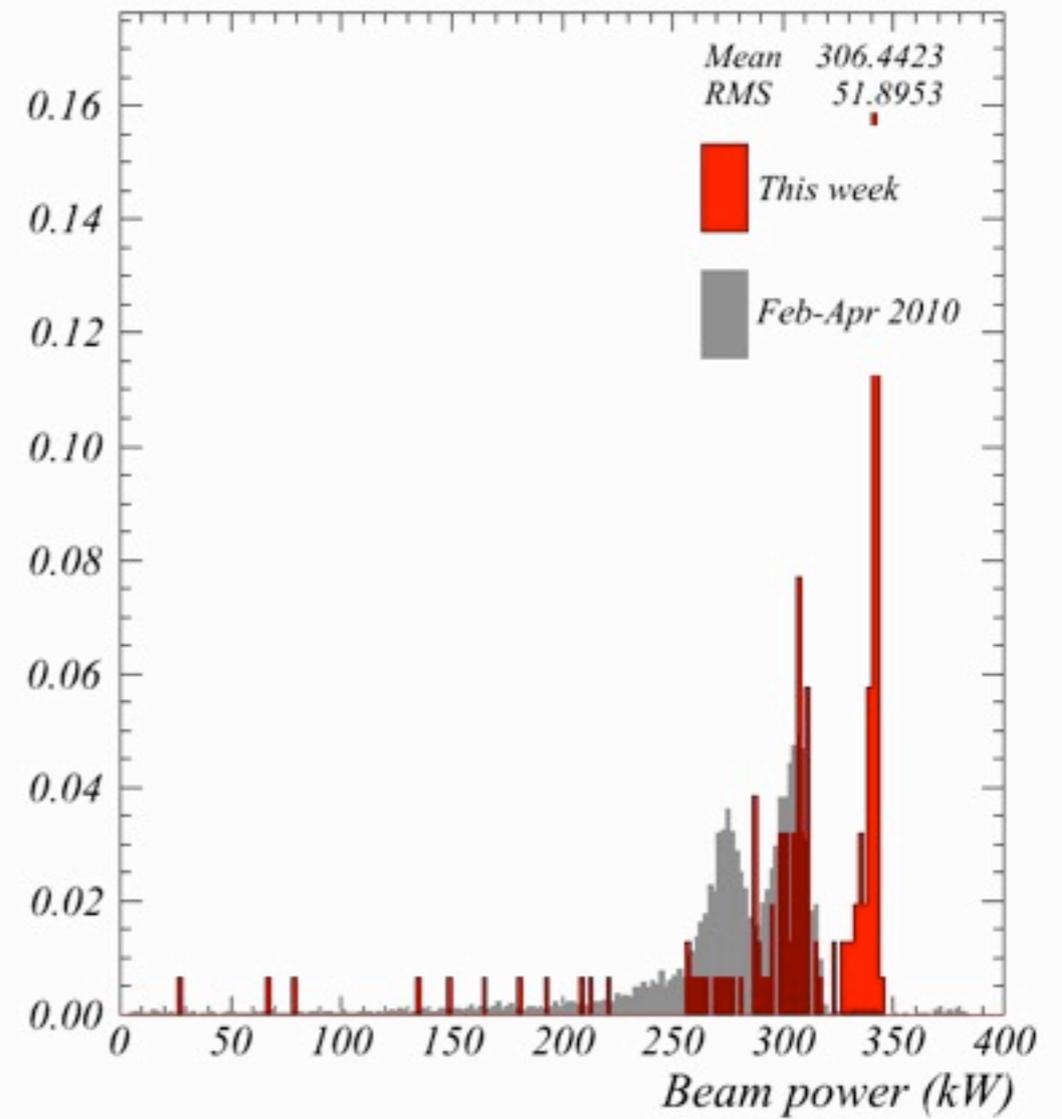


# NuMI Beam Plots

Week ending 00:00 Monday 06 February 2012

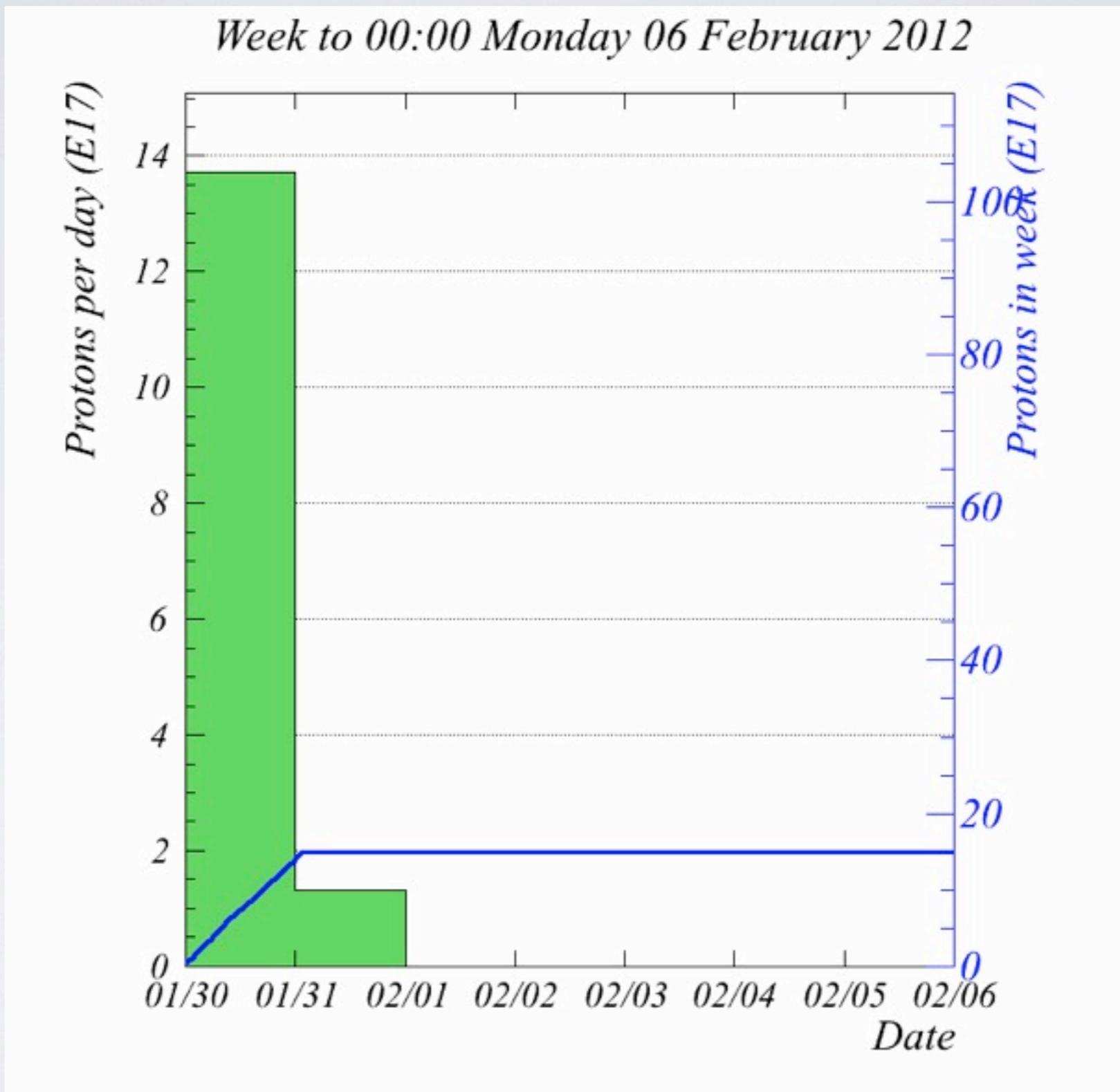


Week ending 00:00 Monday 06 February 2012





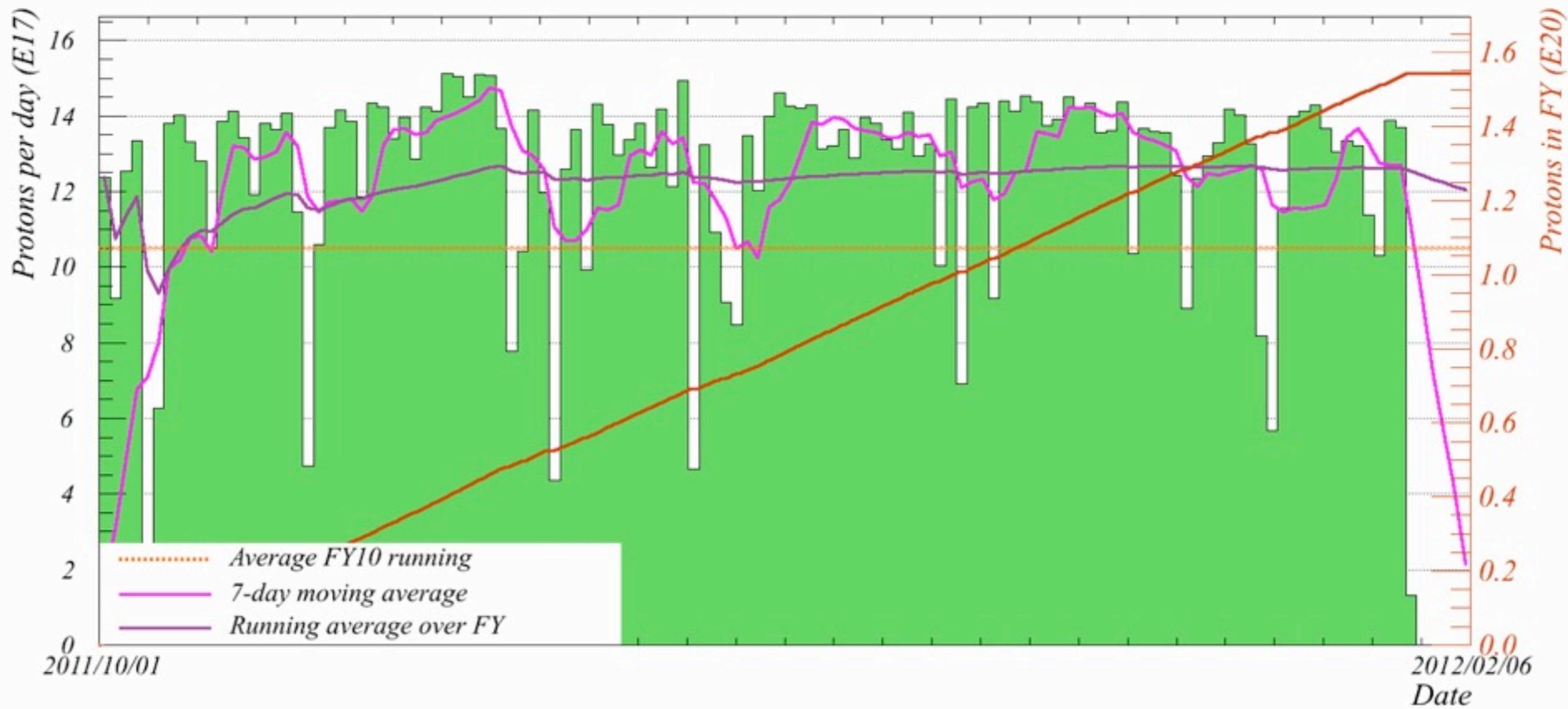
# Protons for the Week





# FY2011 Protons

*FY12 NuMI protons to 00:00 Monday 06 February 2012*





# NuMI Protons over History

Total NuMI protons to 00:00 Monday 06 February 2012

