The MINERνA Operations Report
All Experimenters Meeting

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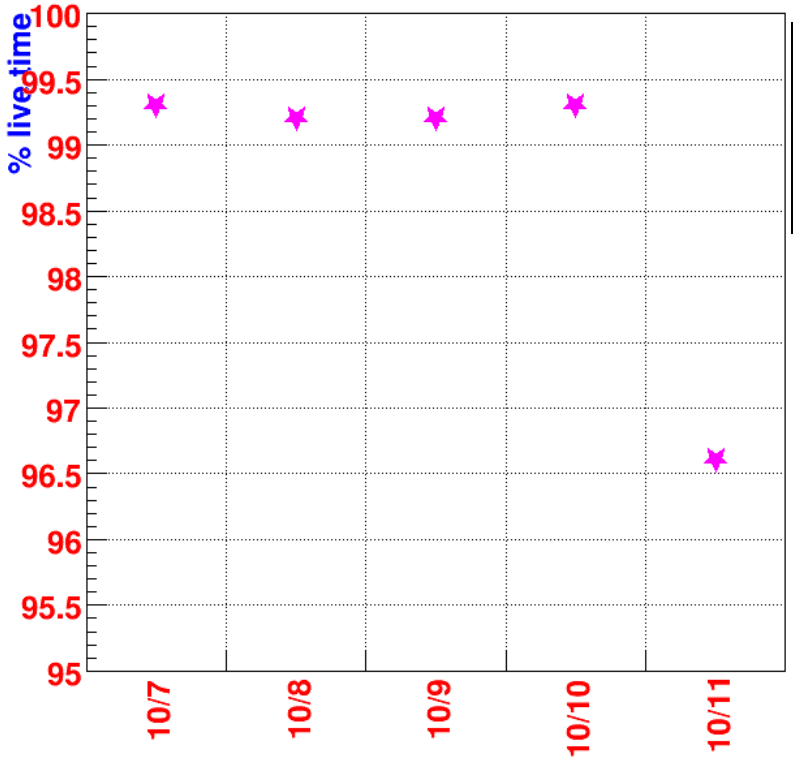
Oct 17, 2011

ν Data



% live time Oct 7-11

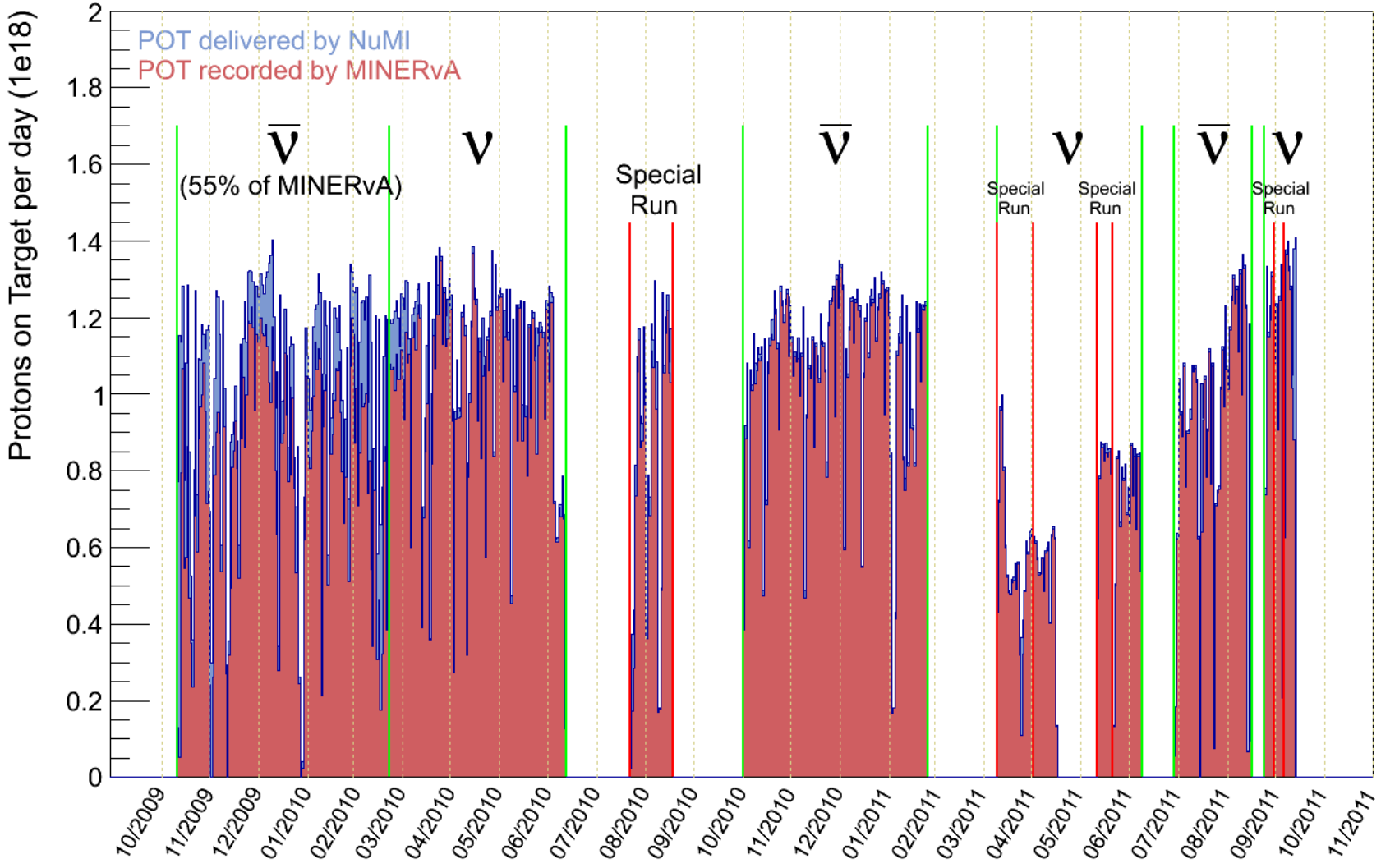
Date	POT Recorded	POT Delivered	Live Time
7-Oct-2011	1.37E+18	1.38E+18	99.3%
8-Oct-2011	1.39E+18	1.40E+18	99.2%
9-Oct-2011	1.32E+18	1.33E+18	99.2%
10-Oct-2011	1.27E+18	1.28E+18	99.3%
11-Oct-2011	1.02E+18	1.05E+18	96.6%
Total	**6.37E+18**	**6.44E+18**	**98.8%**

- Congratulations to the AD have the best 7 day period to date
  - 0.923×10^{19} POT for ν, Oct 7-13
- Move to LE10 FHC 185 kA horn current on Oct 5, beam up on Oct 6
  - 1.38×10^{19} POT for ν, Oct 6-16, ν with NT-07
  - 0.90×10^{19} POT for ν, Oct 10-16
- 2.68×10^{19} POT with NT-07
- MINERvA live time Oct 7– Oct 11 – 98.8%
  - The Feynman computer outage has caused problem in understanding the live time Oct 12-13 and the MINOS live time

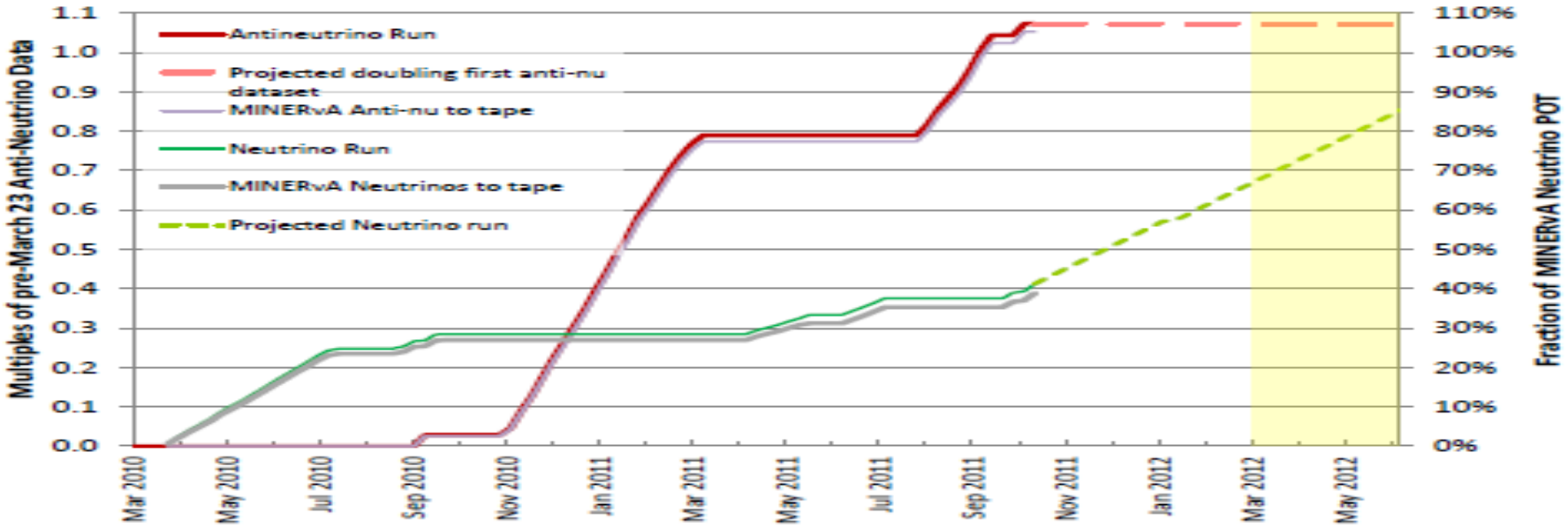
ν Data

- Roughly, down 1 hour during the change over due to unanticipated problems when data disc in Feynman (BlueArc) went down.
  - Online monitoring went fine
  - The outage caused nearonline monitoring, which has higher statistics and uses DSTs, not to work.
- After we returned to the full monitoring, no detector problems were seen.
  - No detector problems occurred during the shutdown.
- Running at 36-37×10^{12} POT/pulse
  - Beam Permit is set to trip at 37.5×10^{12} POT
- Beam rate back to 2.2 seconds on Oct 15 as people are trying to understand why HV101 tripped off on temperature on Oct 15

MINERνA POT/Day
Nov 2009 - Present

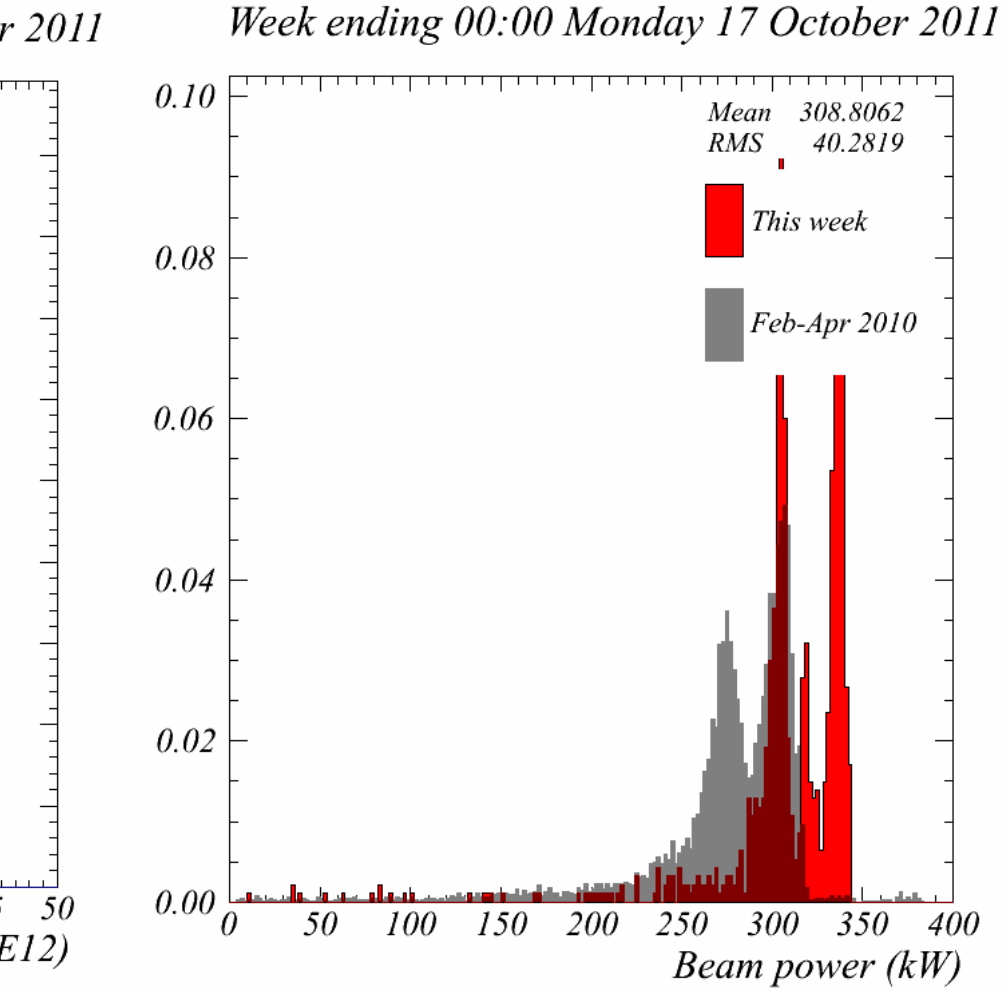


Accumulated POT to Oct 13

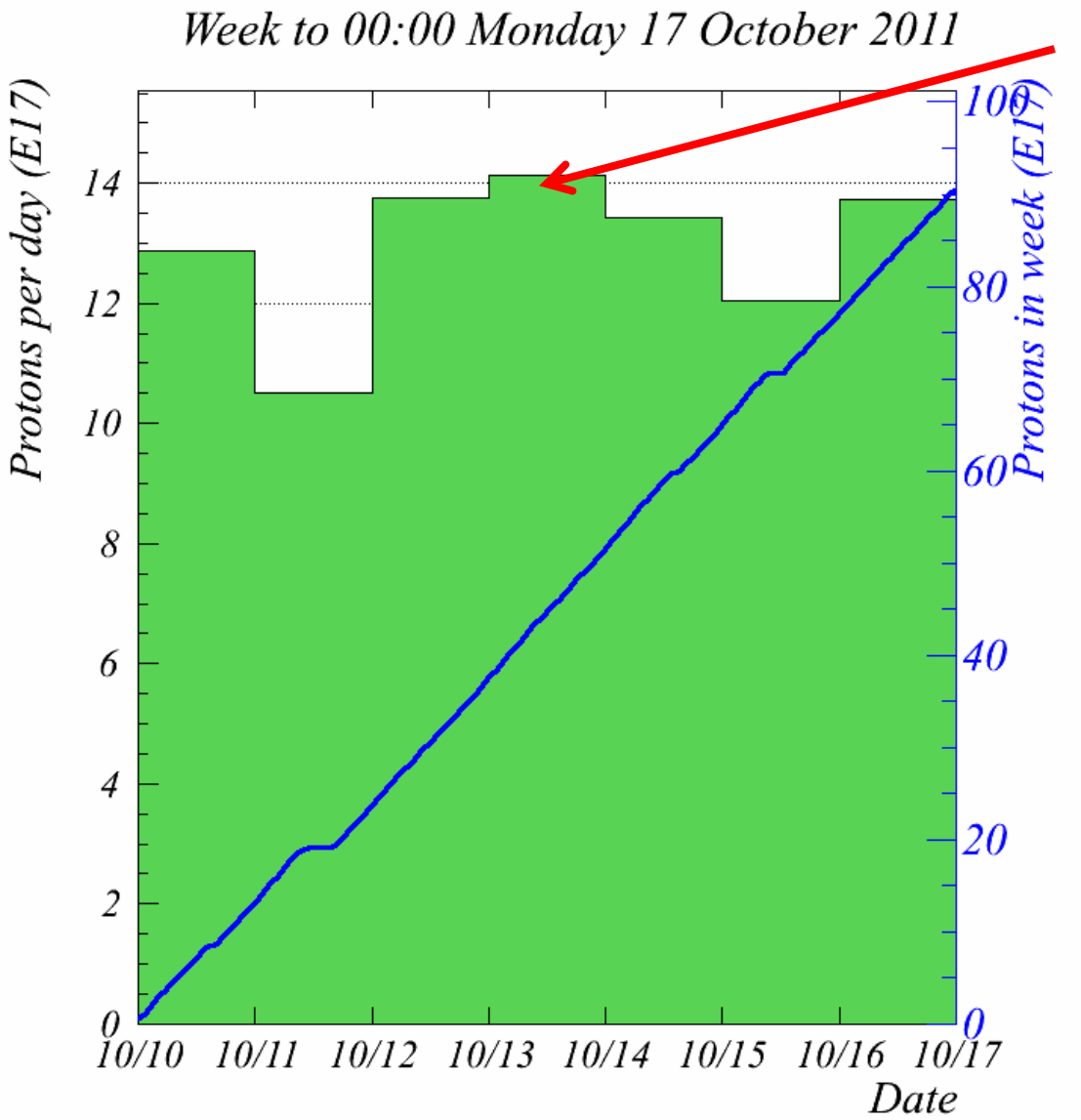


- Anti-ν run, full scale corresponds to 1.76×10^{20} POT
  - # POT for collected for anti-ν before Mar 23 10, official start of MINERνA ν run
- NT02 running gives enough anti–ν data for doubling of the 1st anti–ν data set.
- Minerva run , full scale corresponds to 4.9×10^{20} POT
  - # for which MINERvA project & experiment were reviewed & the detector built.
- Projected assumes 0.92×10^{18} POT/day
  - # POTs – average over the uptime during the past 1.5 years
  - Actual run plan not yet determined, this is one possible scenario

NuMI Beam Plots

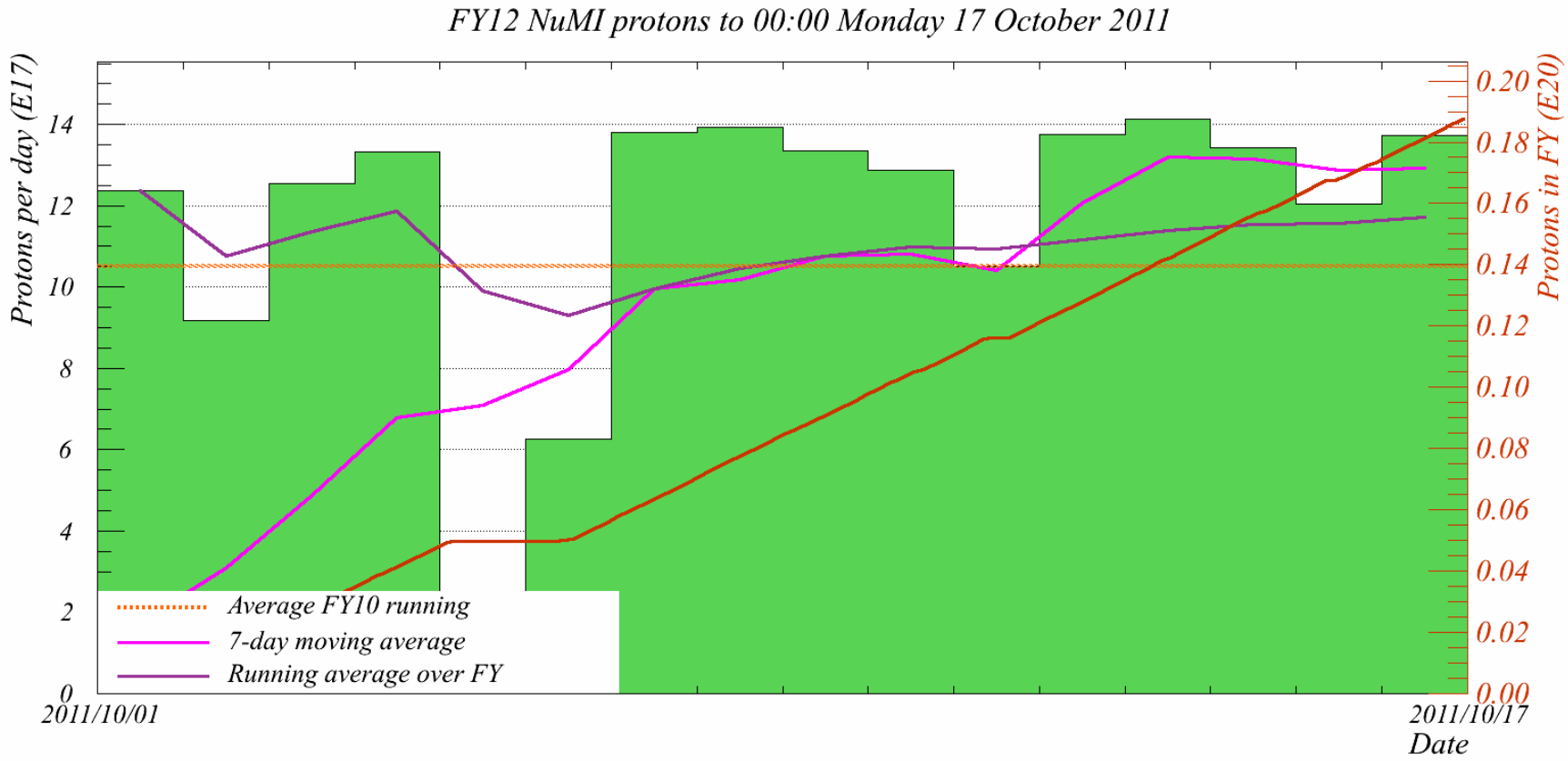


Protons for the Week



- 0.14078×10^{19} POT for
  - best 24 day
  - Beats out 0.14015×10^{19} POT on Jan 8 2010

FY2012 Protons



NuMI Protons over History