

# **The MINERvA Operations Report**

**César Castromonte**

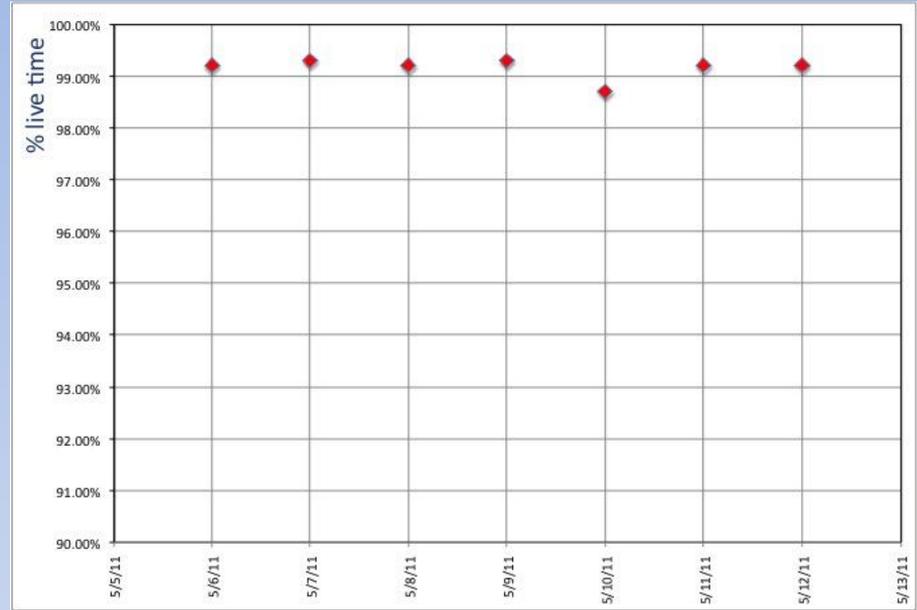
All Experimenters Meeting, May 16, 2011



# v Data

% live time: May 6 – May 12

Date	NuMI Del. POT	MIN. Rec. POT	Live Time
06-May-2011	5.31E+17	5.35E+17	99.20%
07-May-2011	5.71E+17	5.76E+17	99.30%
08-May-2011	4.86E+17	4.90E+17	99.20%
09-May-2011	5.87E+17	5.91E+17	99.30%
10-May-2011	5.92E+17	6.00E+17	98.70%
11-May-2011	6.10E+17	6.15E+17	99.20%
12-May-2011	4.03E+17	4.06E+17	99.20%
<b>Total</b>	<b>3.81E+18</b>	<b>3.78E+18</b>	<b>99.16%</b>

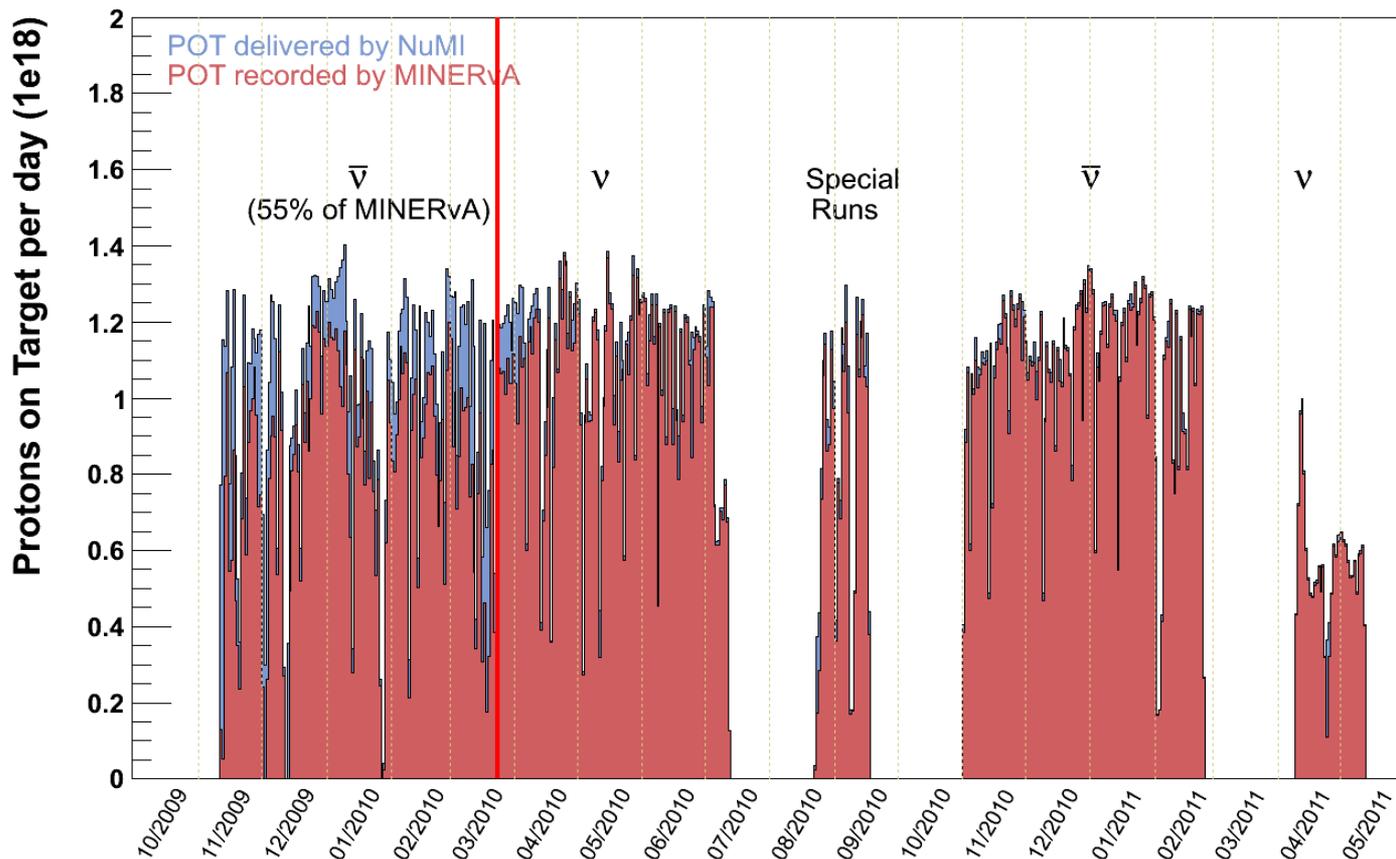


- **NuMI:  $3.81 \times 10^{18}$  POT** delivered from May 6 – May 12.
- **MINERvA:  $3.78 \times 10^{18}$  POT** recorded from May 6 - May 12, live time of **99.2%**.
- **MINOS:  $2.55 \times 10^{18}$  POT** recorded from May 6 - May 12, live time of **77.1%**.

- On May 17, the target will be move to LE 250, current horn 200 kA.
  - Plan to collect  $7 \times 10^{18}$  POT's at this setting.

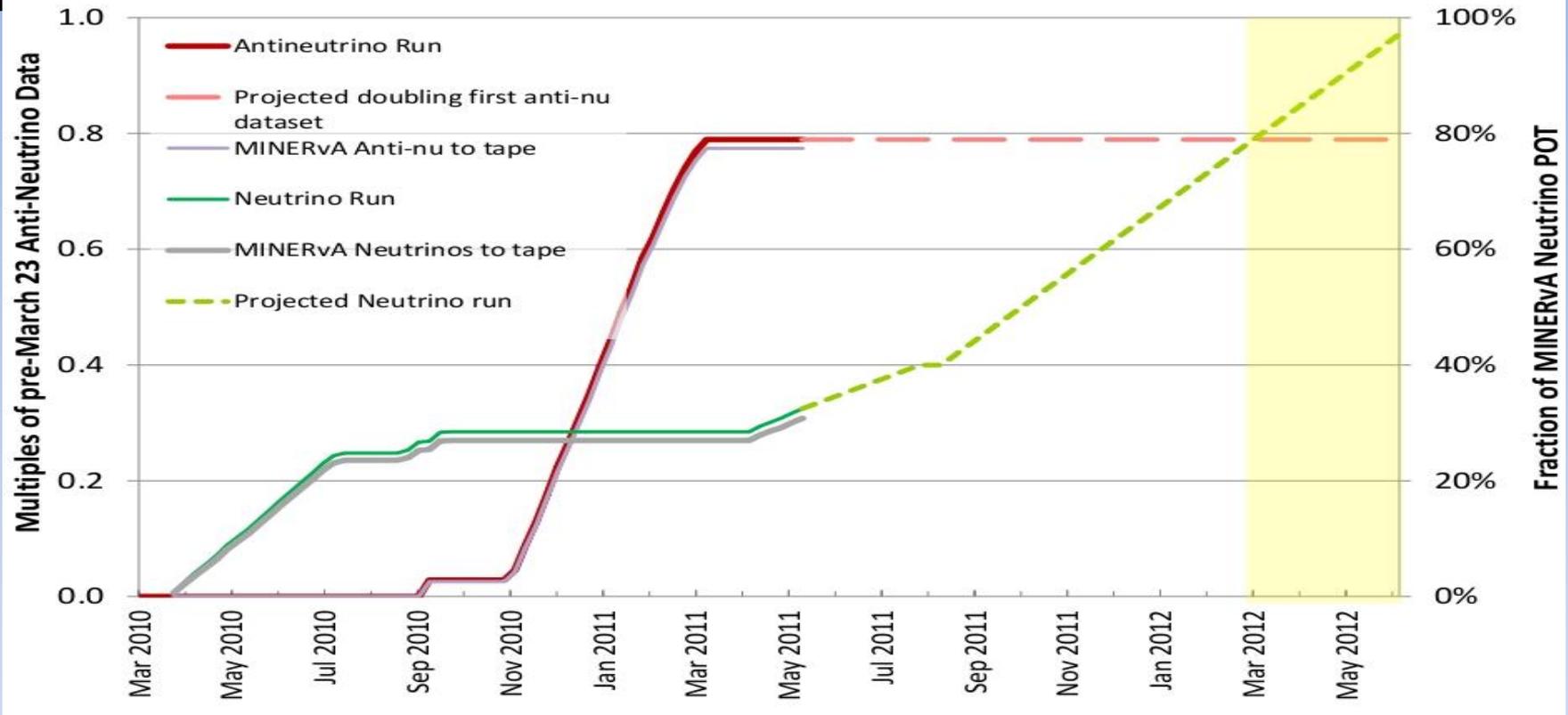


# MINERvA POT/Day November 2009 - Present





# Accumulated POT to May 12

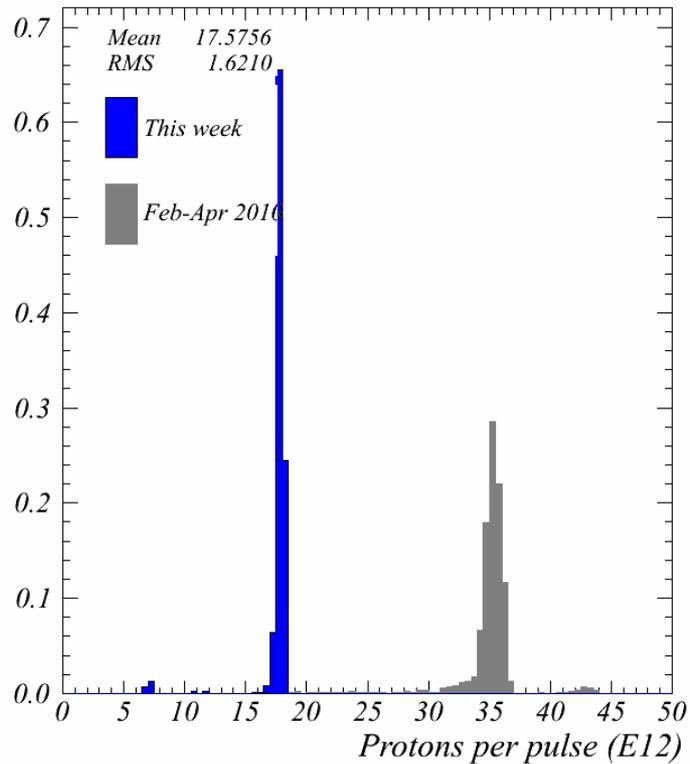


- **Antineutrino Run, full scale corresponds to  $1.76 \times 10^{20}$  POT**
  - # POT collected in anti-nu before Mar 23, 2010 (official start of MINERvA neutrino run).
- **Neutrino Run, full scale corresponds to  $4.9 \times 10^{20}$  POT.**
  - # of for which MINERvA project and experiment were reviewed and the detector built.
- **Projected assume  $0.92 \times 10^{18}$  POT per day plus 2 week shutdown to change target**
  - # POTs – average over the uptime during the past 1.5 years

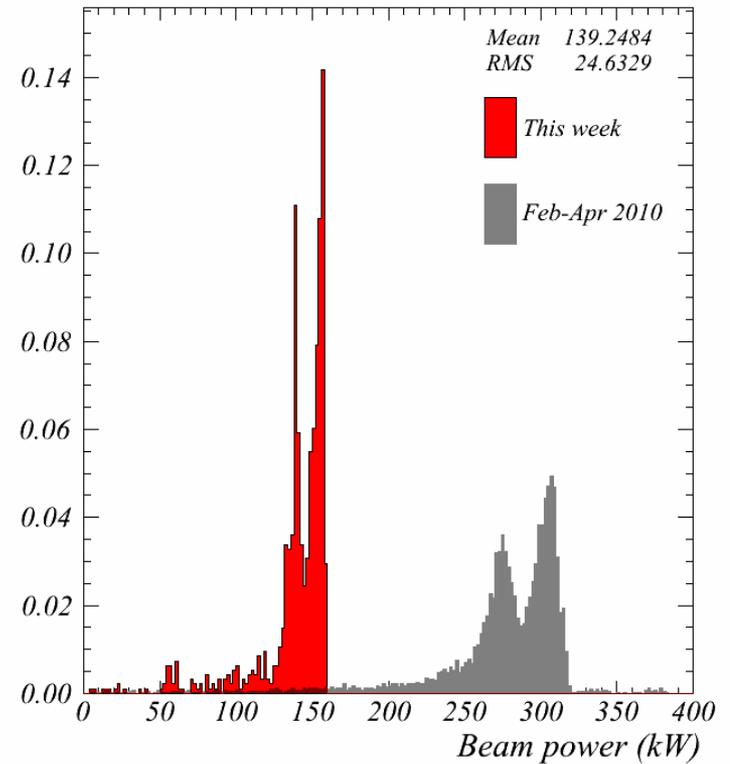


# NuMI Beam Plots

Week ending 00:00 Monday 16 May 2011

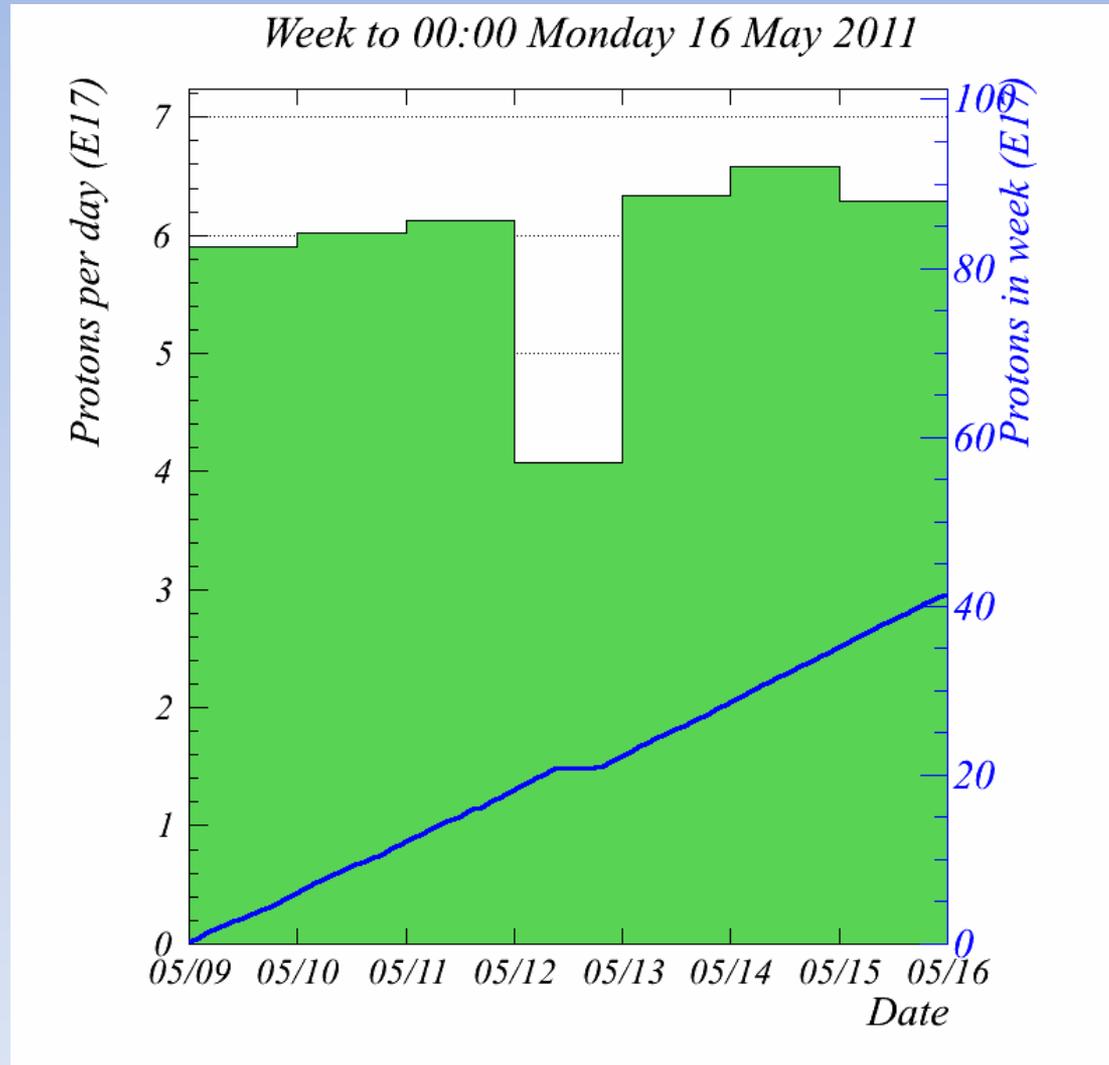


Week ending 00:00 Monday 16 May 2011





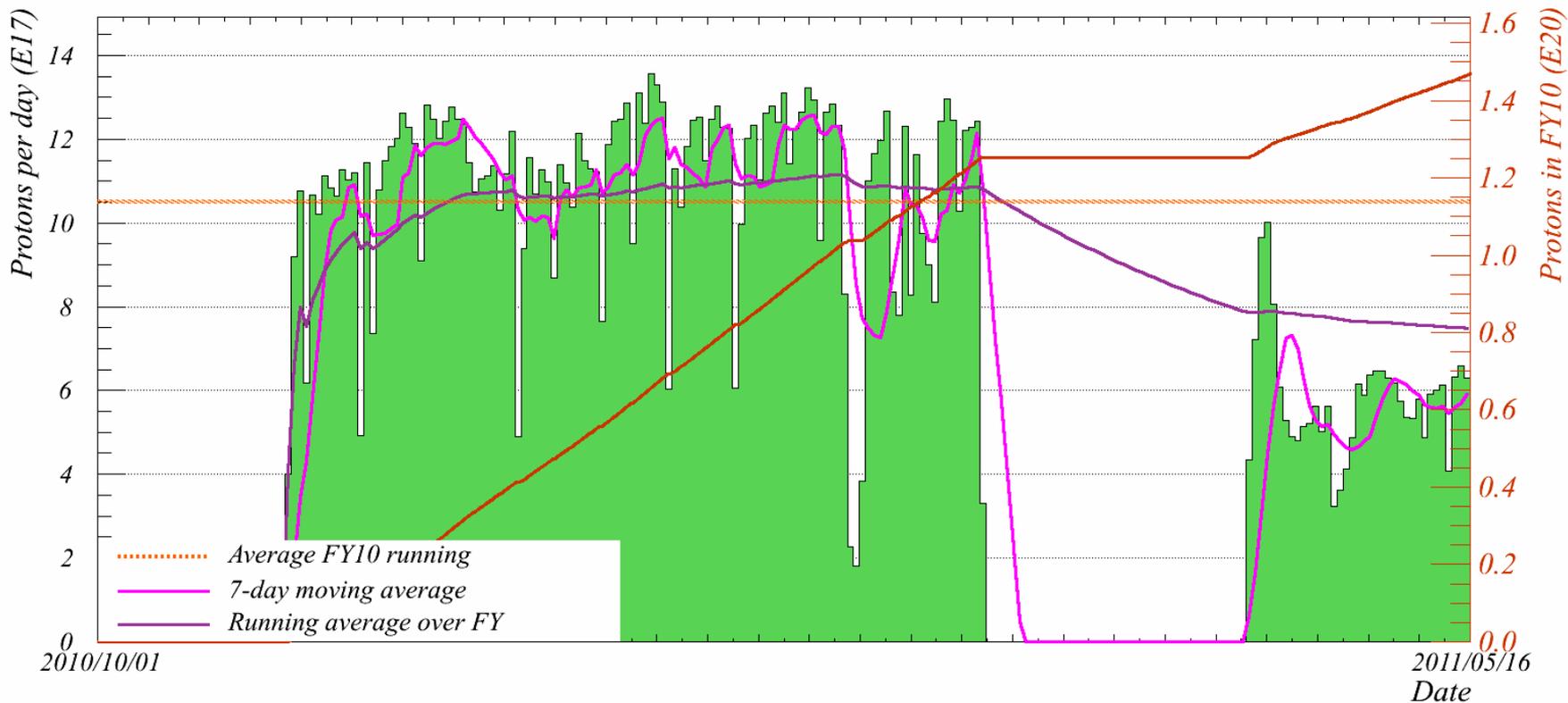
# Protons for the Week





# FY2011 Protons

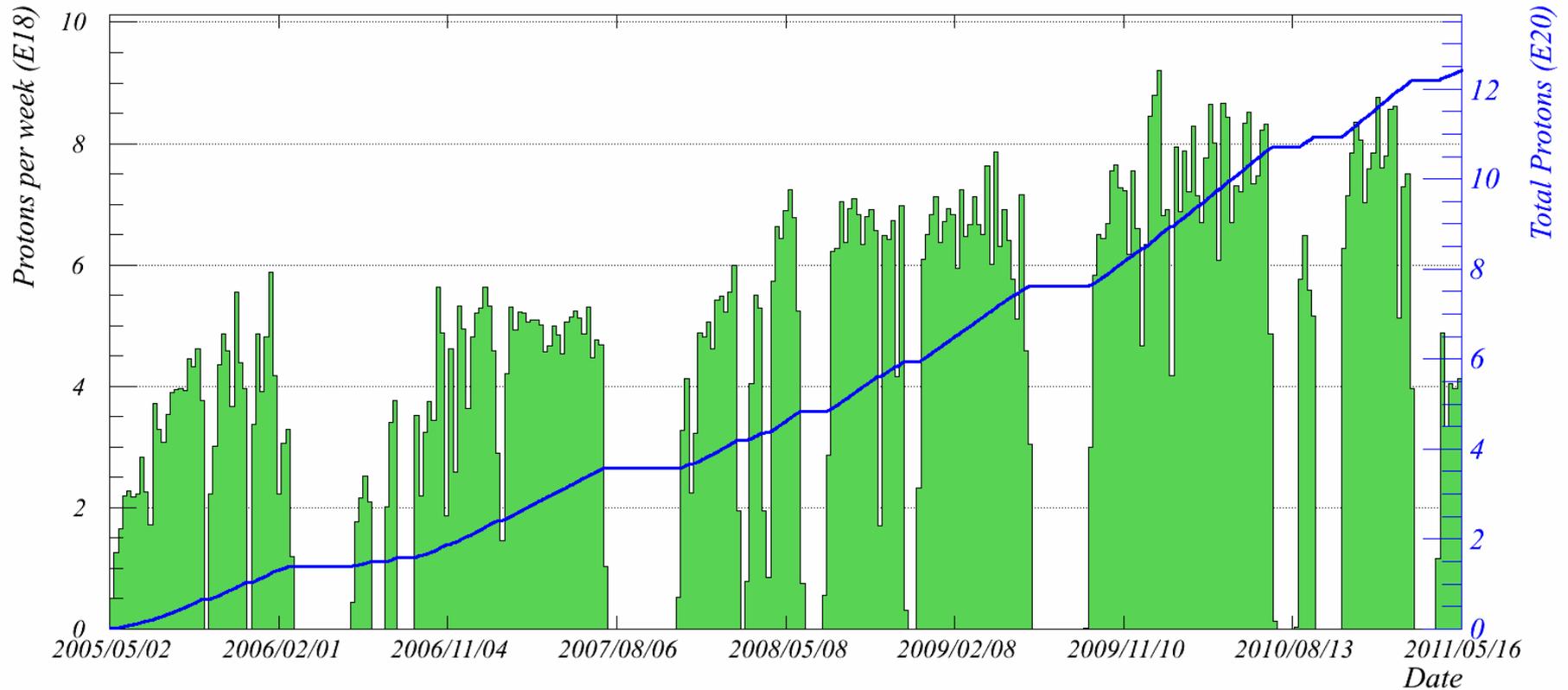
FY11 NuMI protons to 00:00 Monday 16 May 2011





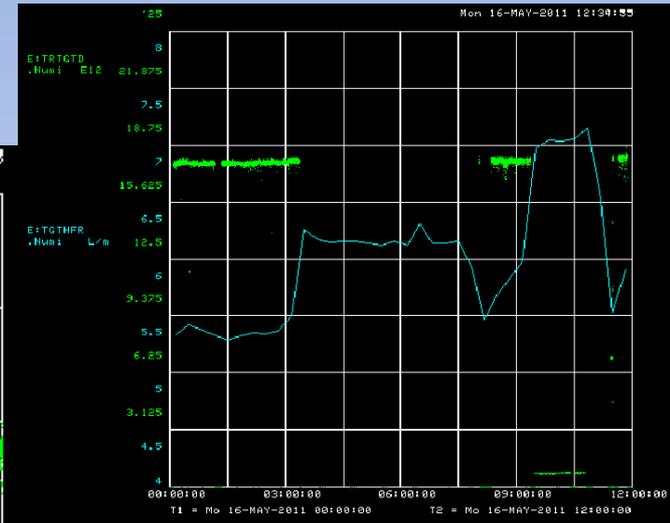
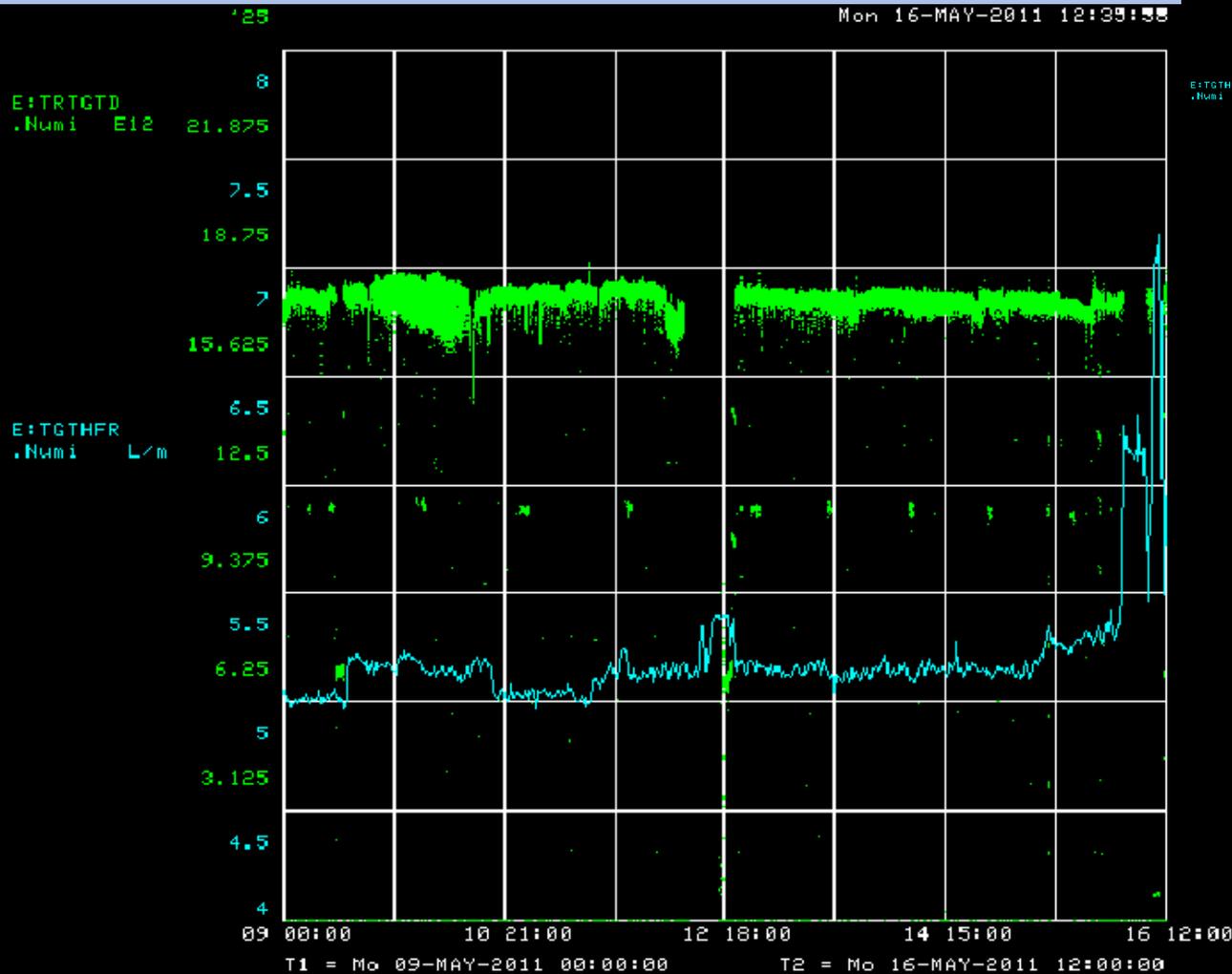
# NuMI Protons over History

Total NuMI protons to 00:00 Monday 16 May 2011





# Helium flow rate: May 9 – May 16



He leak rate  
POT rate

Plot starts midnight  
May 8, ends May  
16, noon.