The MINERνA Operations Report
All Experimenters Meeting

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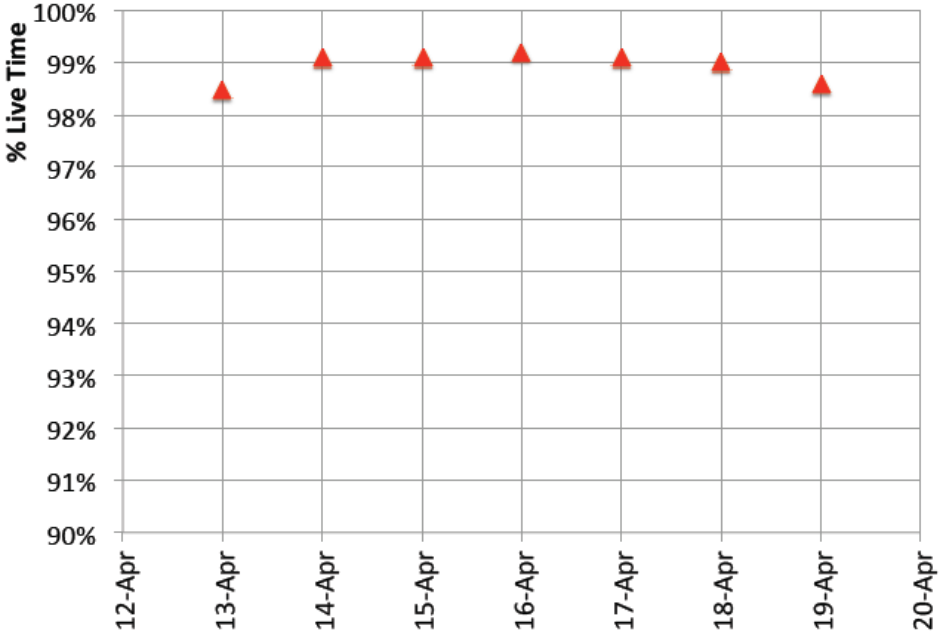
April 23, 2012

ν Data

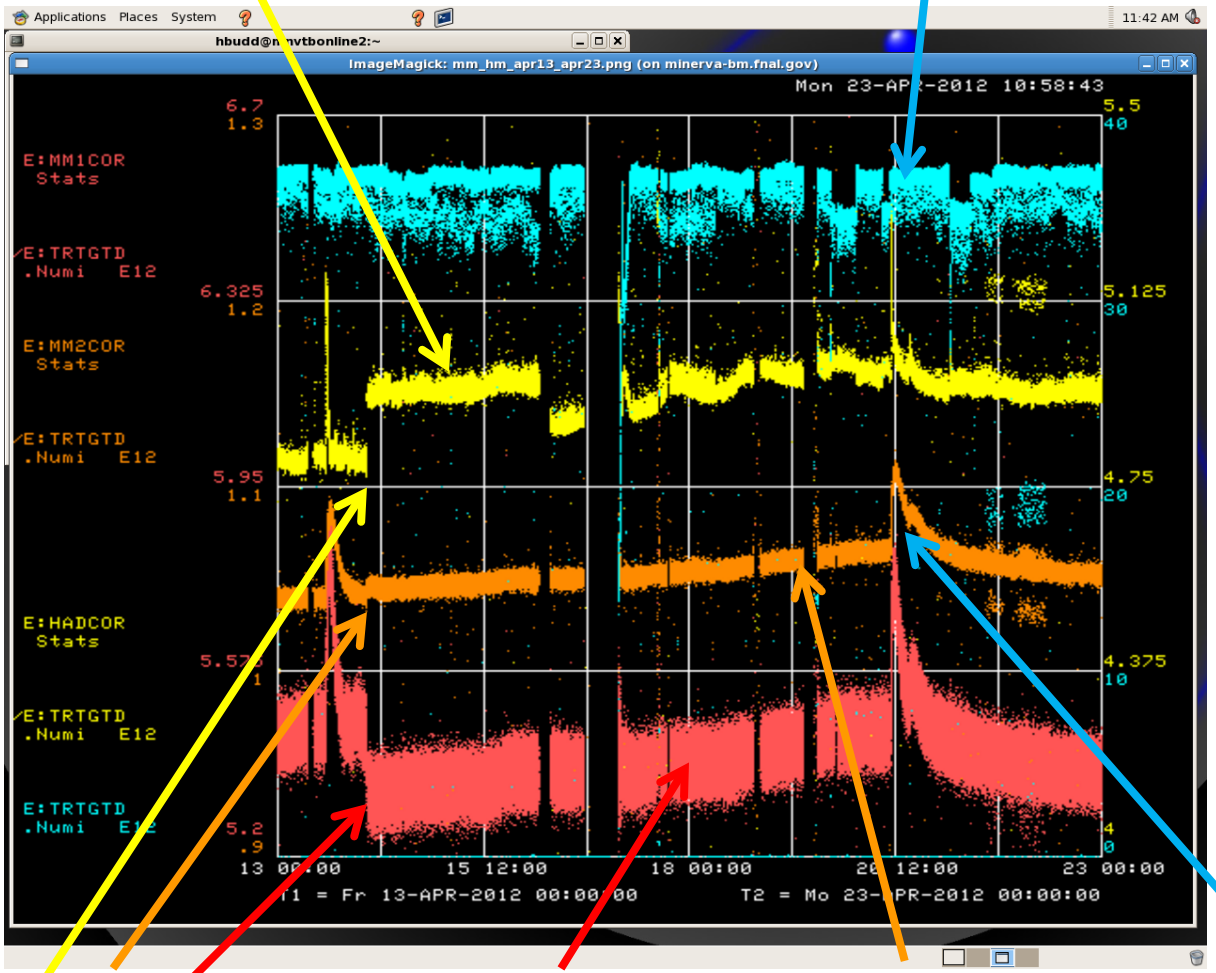
From	To	POT	MINOS Live time	MINERvA Live time	Live time
13-Apr-2012	19-Apr-2012	7.86E+18	99.4%	98.9%	98.3%

% live time Apr 13-19



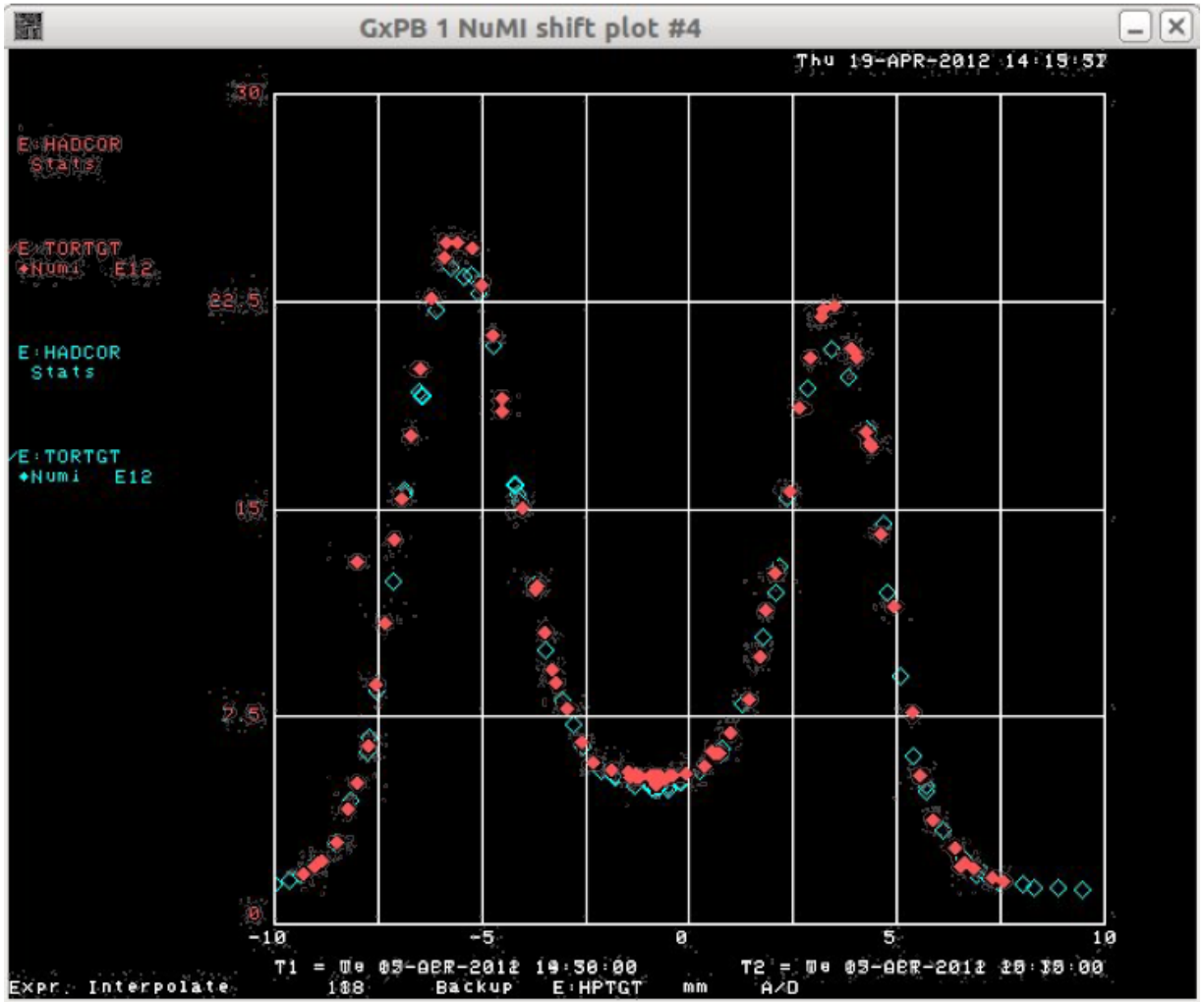
- 25.51×10^{19} POT with NT-07
- 24.20×10^{19} POT for ν, Oct 6 – Apr 22, LE10 with NT-07
- 0.79×10^{19} POT for ν, Apr 16-22

Hadron and Muon Monitors 4/13 to 4/22



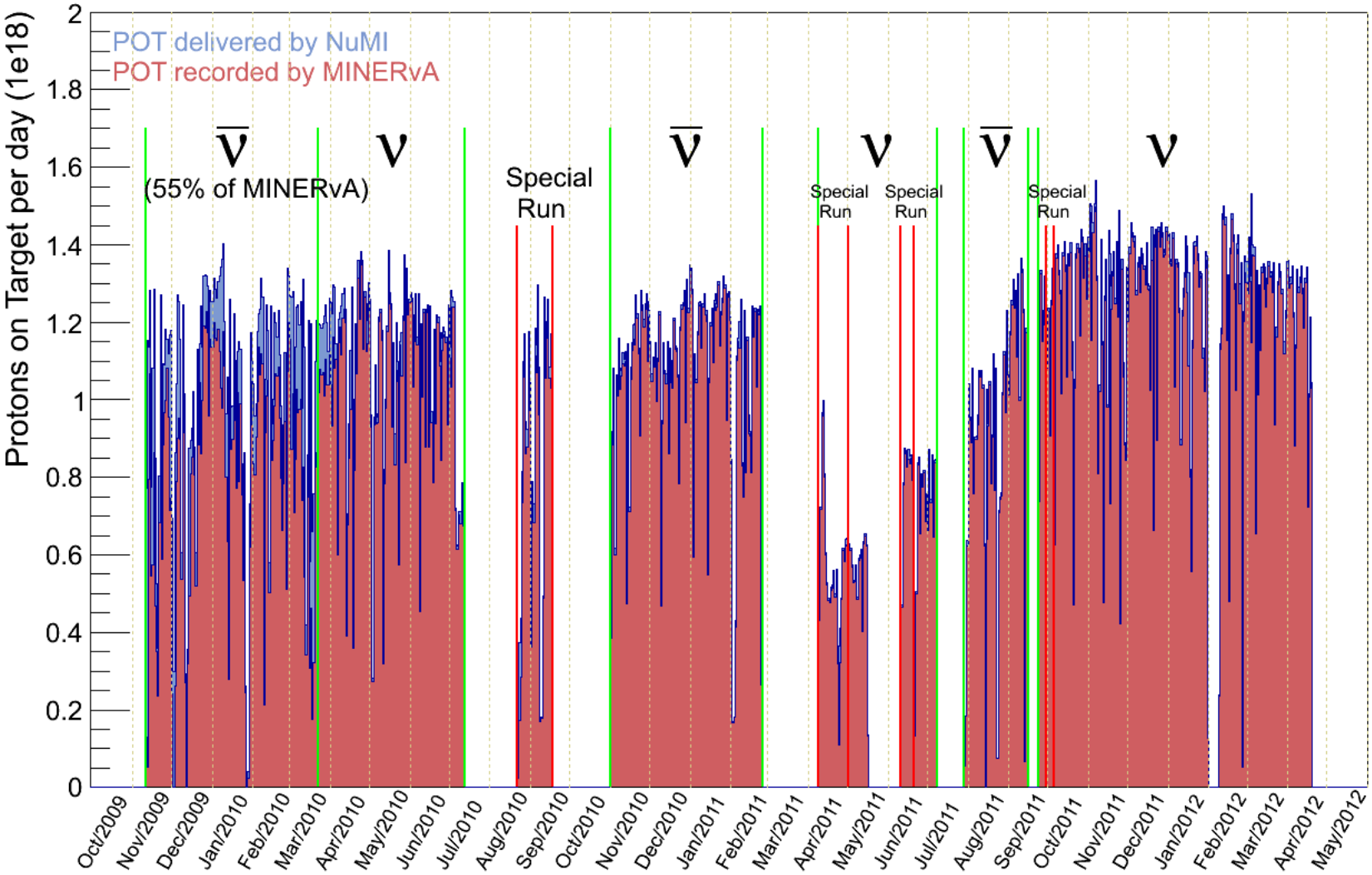
- 4/14 Step
  - hardon monitor up 4%,
  - MM1 down 2%
  - MM2 up slightly
- 4/16, hadron monitor drops 2% but MM1 and MM2 constant
- No other step in HM and MM since then
- Something on 4/14 may have changed in the target, but no evidence for it since then

Horizontal Target Scans, Oct 5 2011 & Apr 17 2012

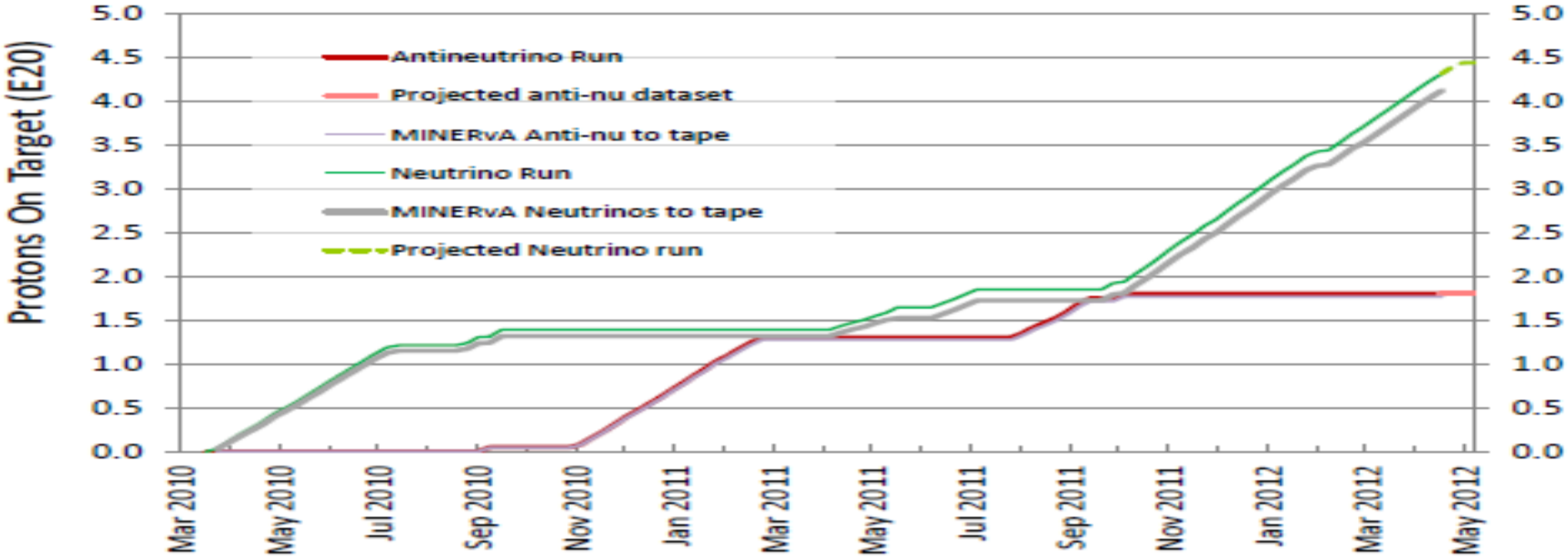


- Red – Target Scan 4/17 after shift in Hadron Monitors and MMs
- Blue – Target Scan 10/5 when we started running LE01z185i
- The signal at the target center may be as much as 5% higher in the April scan

MINERνA POT/Day Nov 2009 - Present

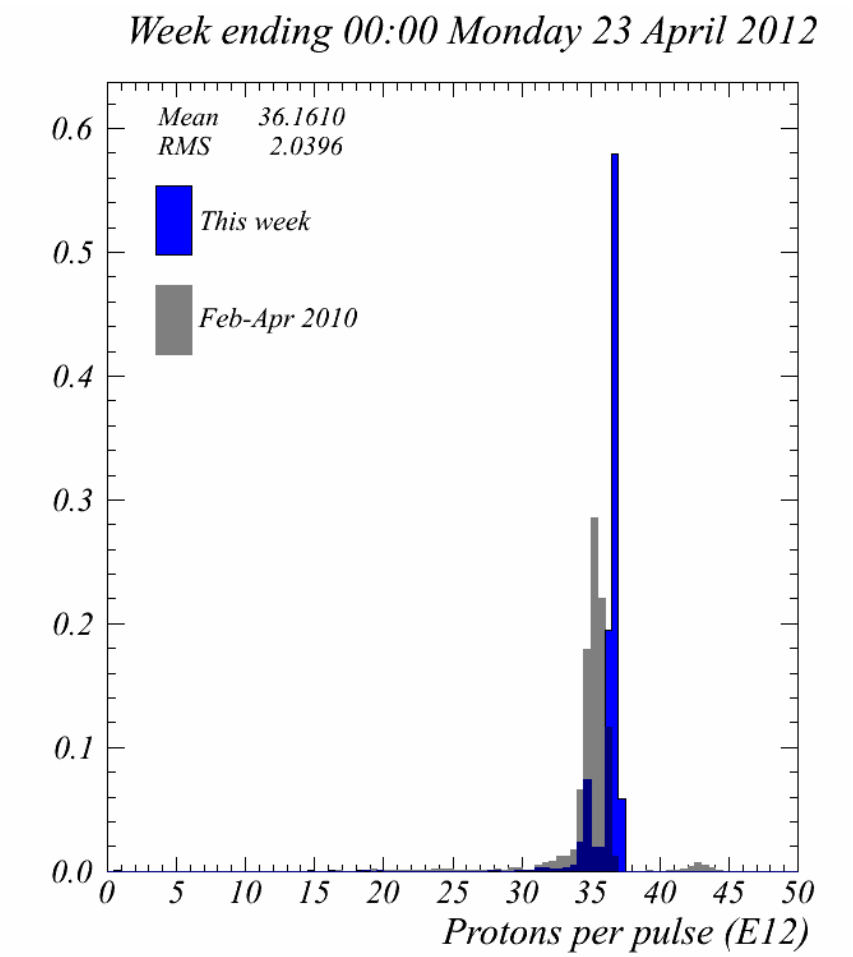


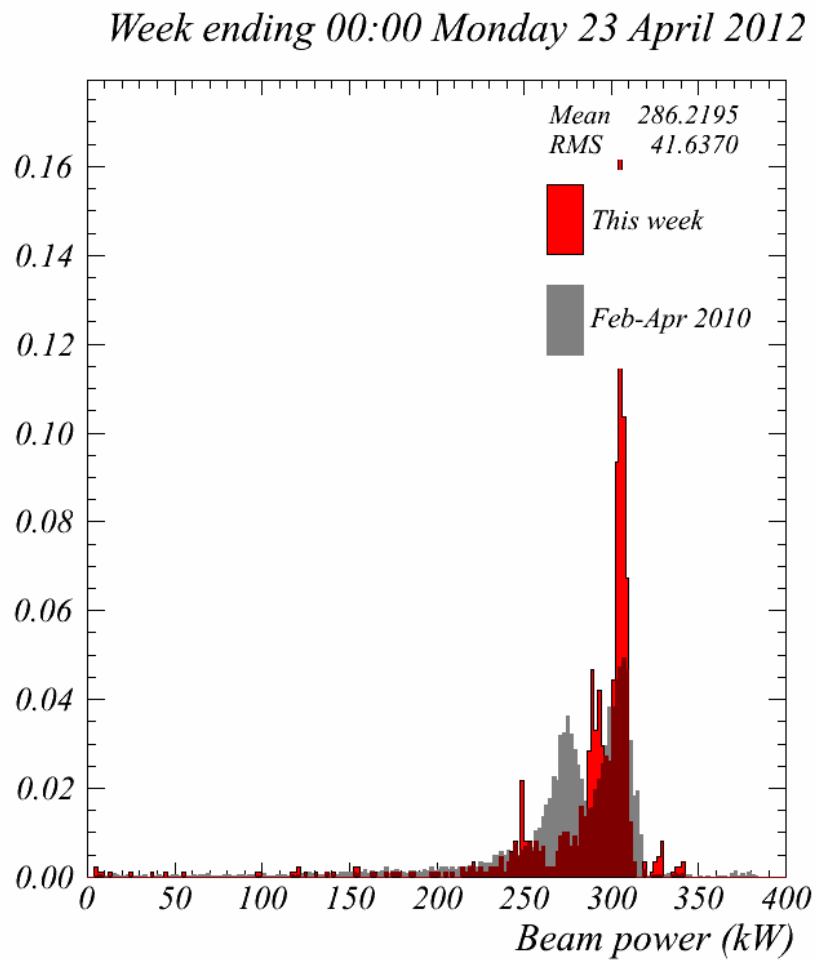
Accumulated POT to Apr 19



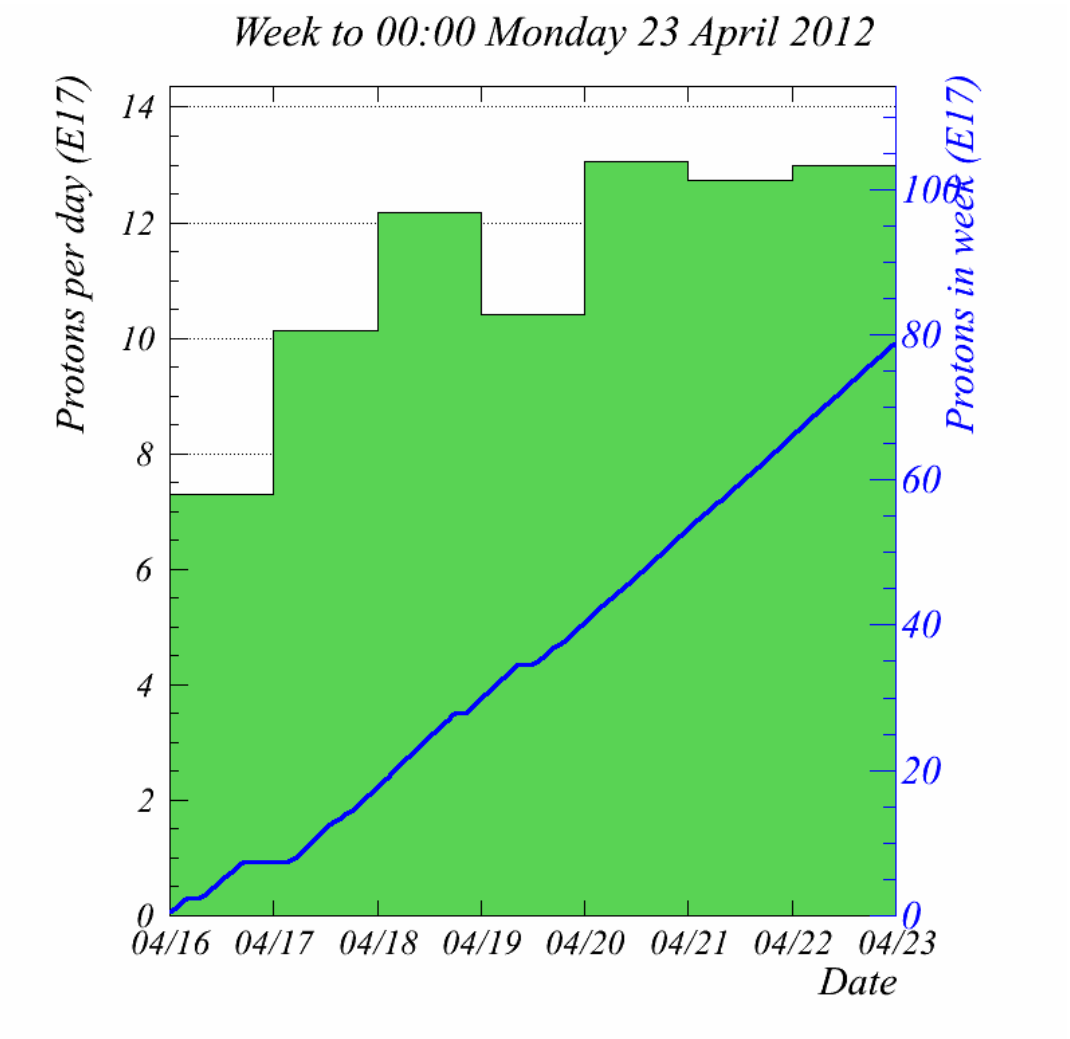
- Anti-ν run, full scale corresponds to 1.76×10^{20} POT
  - # POT for collected for anti-ν before Mar 23 10, official start of MINERνA ν run
- NT02 running gives enough anti–ν data for doubling of the 1st anti–ν data set.
- Minerva run , full scale corresponds to 4.9×10^{20} POT
  - # for which MINERvA project & experiment were reviewed & the detector built.
  - Received 43×10^{19} POT in ν mode
- Projected assumes 1.25×10^{18} POT/day
  - # POTs – average from Oct 2011 to now.

NuMI Beam Plots



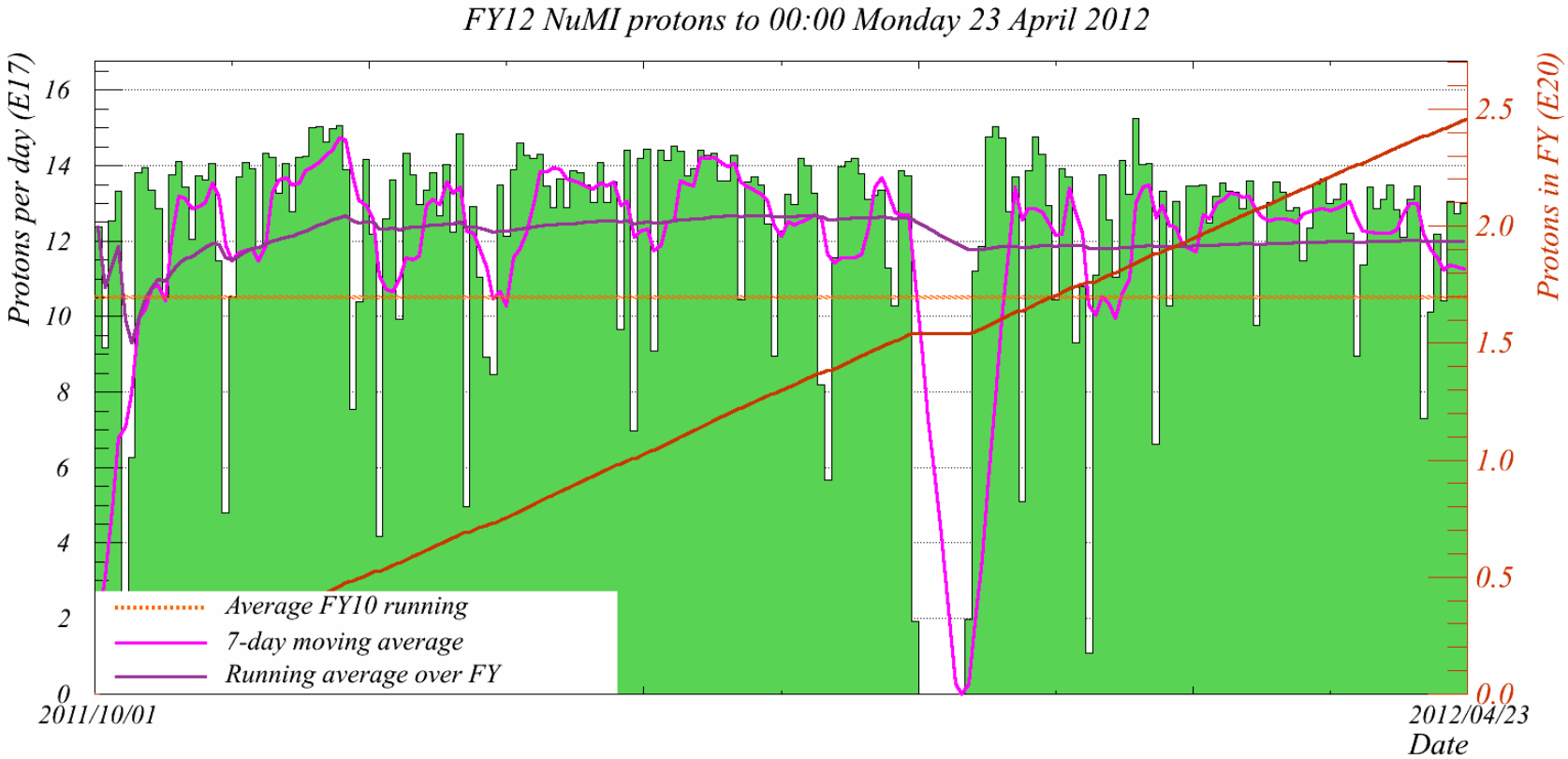


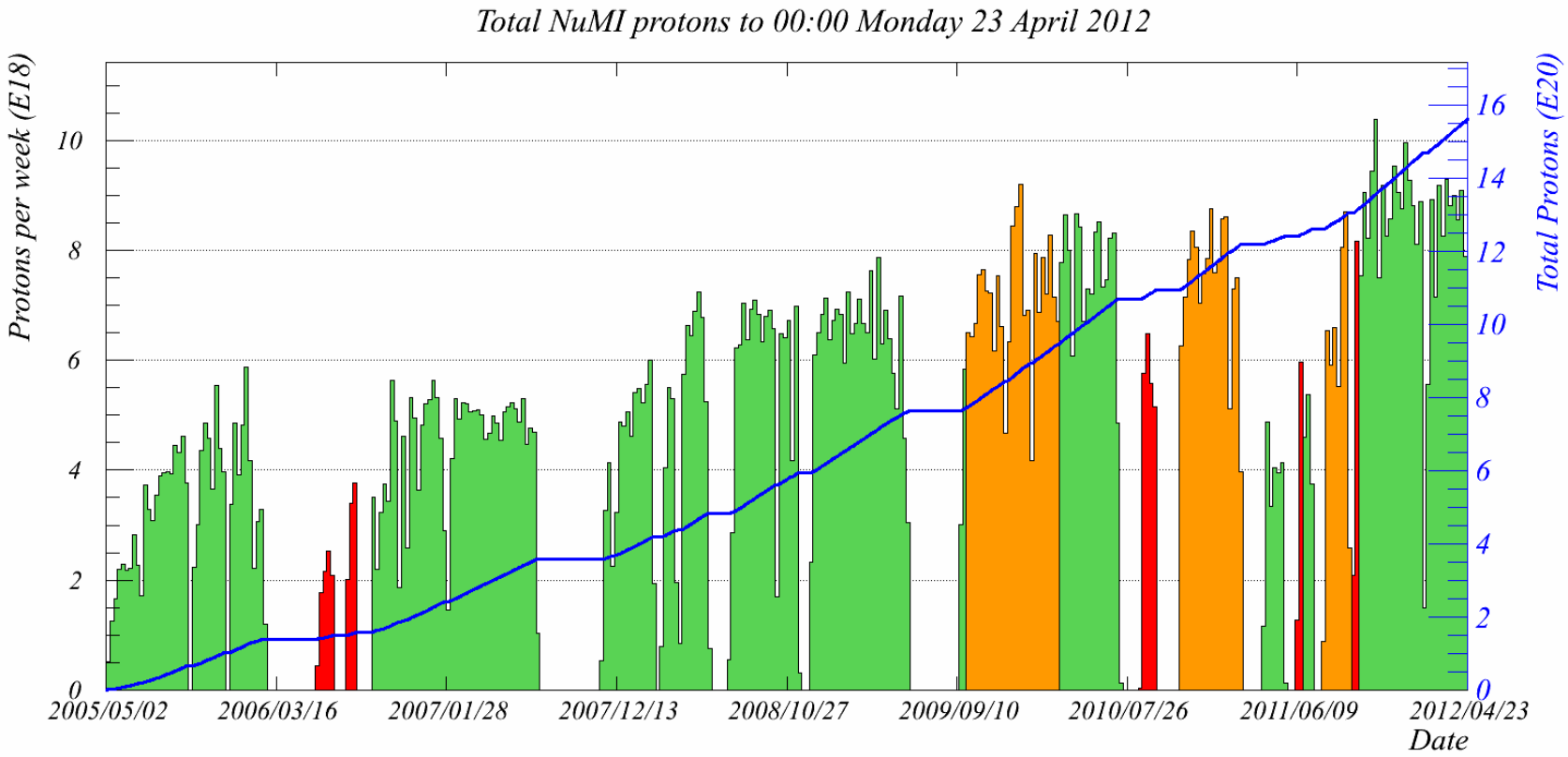
Protons for the Week



0.79×10^{19} POT

FY2012 Protons



24.70×10^{19} POT

NuMI Protons over History