The MINERνA Operations Report
All Experimenters Meeting

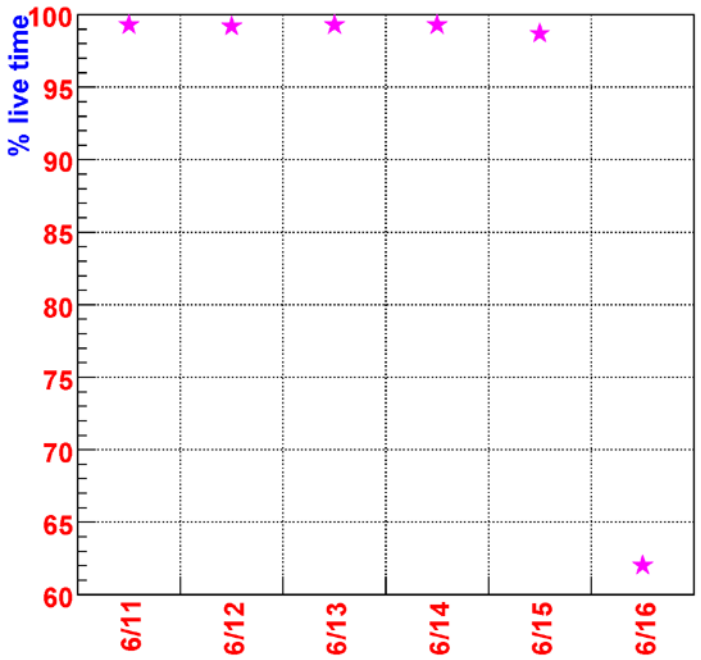
Howard Budd, University of Rochester

Jun 20, 2011

ν Data

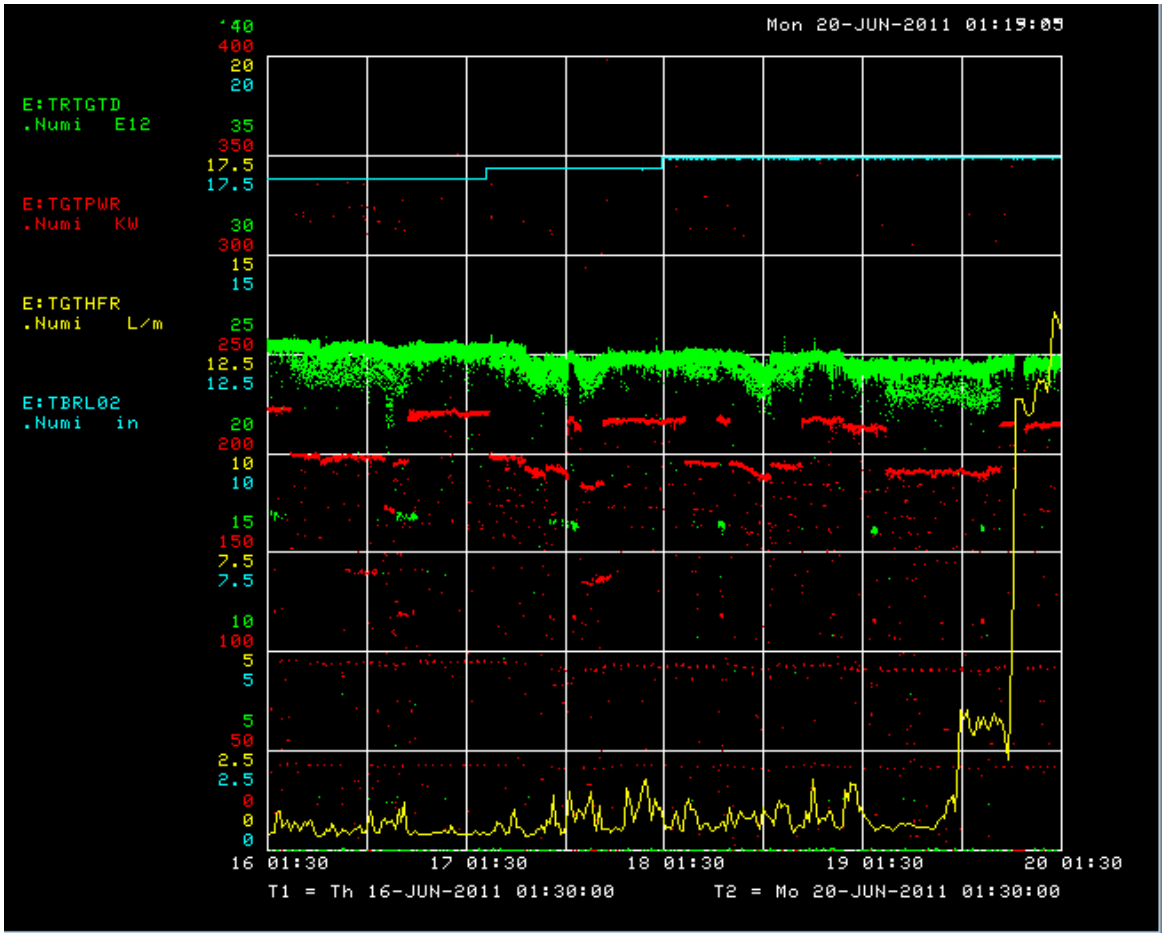
% live time Apr 22 – Apr 28

Date	POT Recorded	POT Delivered	Live Time	Comment
6/11/2011	4.67E+17	4.70E+17	99.3%	
6/12/2011	7.79E+17	7.86E+17	99.2%	
6/13/2011	8.70E+17	8.76E+17	99.3%	
6/14/2011	8.62E+17	8.68E+17	99.3%	
6/15/2011	8.26E+17	8.36E+17	98.7%	
6/16/2011	5.41E+17	8.73E+17	62.0%	Processing
Total	**4.34E+18**	**4.71E+18**	**92.3%**	



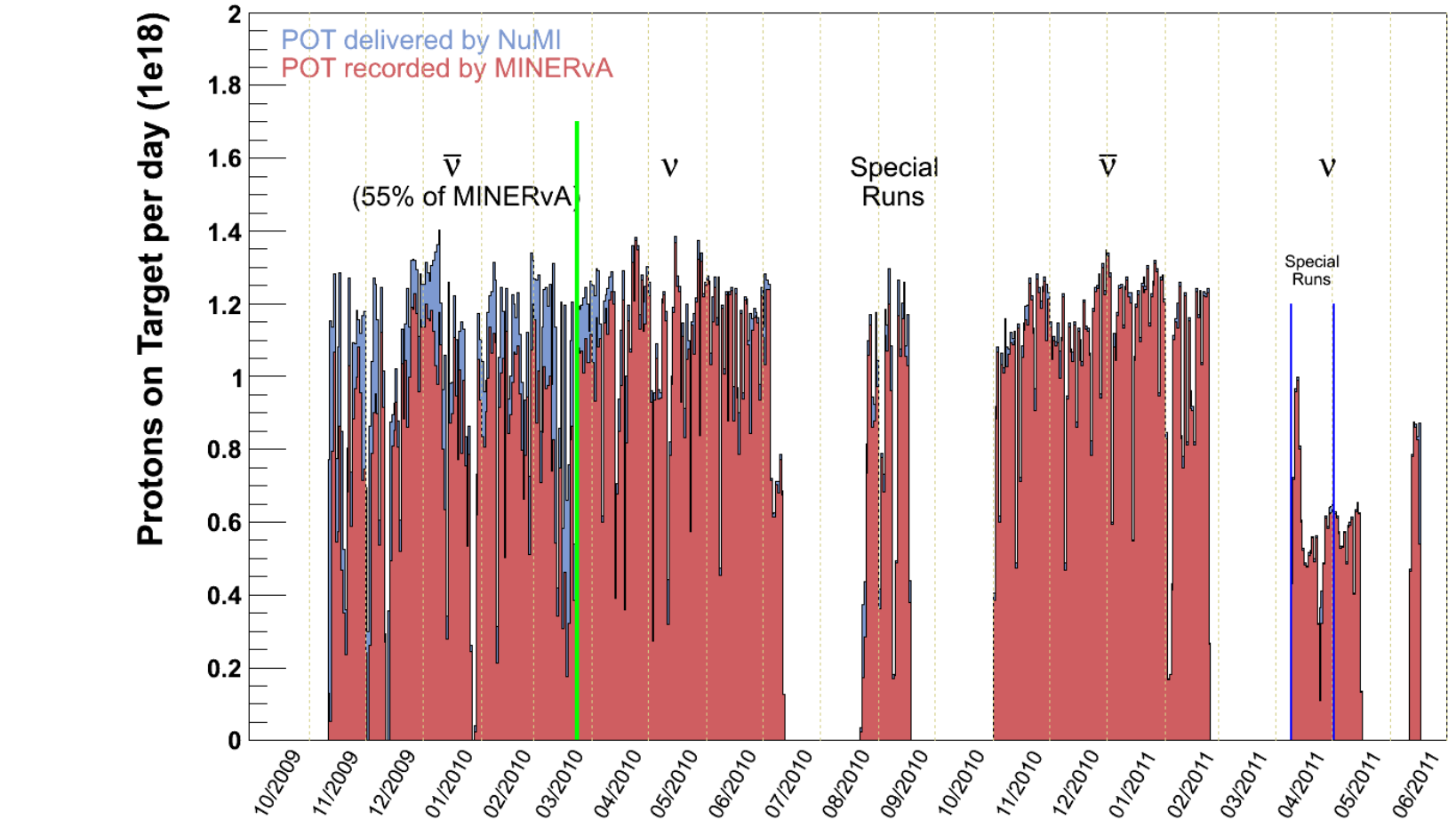
- Limit 2.5×10^{13} POT/pulse for target
- Started up in LE250 HE ν mode,
  - We have taken 0.72×10^{19} POT as of Jun 19.
- 92.3% live from Apr 22 – Apr 28, 0.335×10^{19} POT
  - However, the inefficiency Jun 16 – Processing problem which is recoverable.
  - MINOS live time is about 98% to Jun 19
- Tomorrow, Jun 21, the plan is to move target to LE10 FHC

He Leak

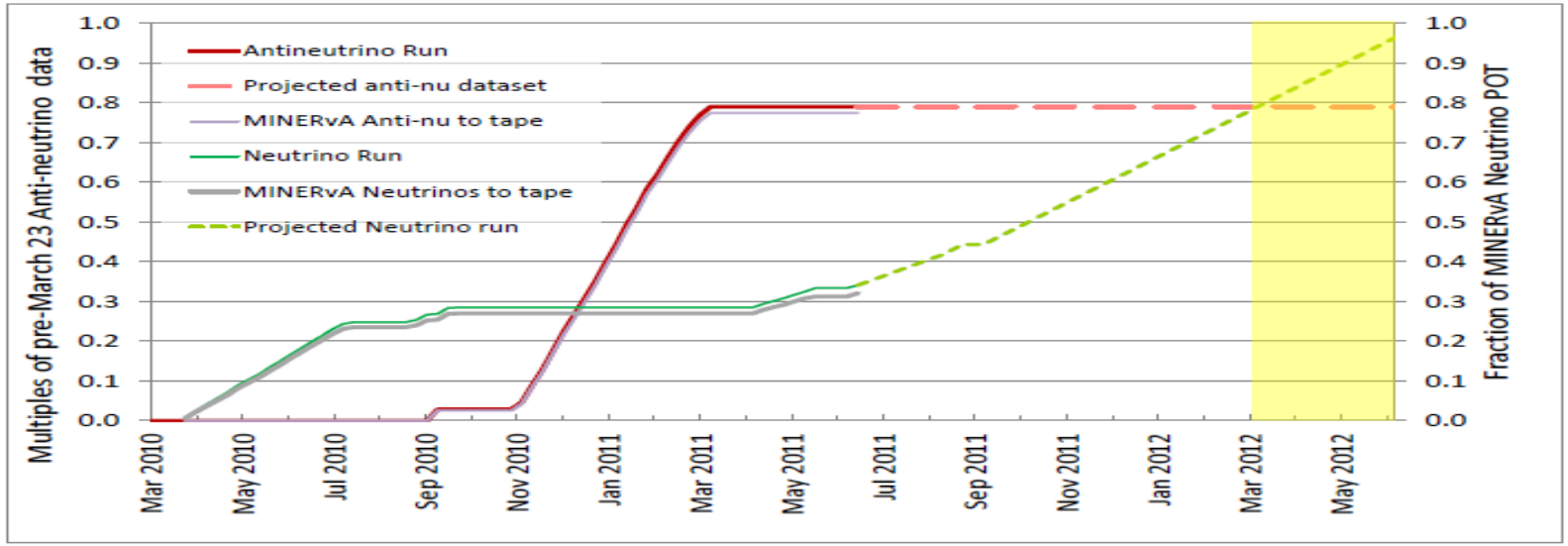


- The He leak has increased to about 13 l/min.
- This leak does not appear to affect the cooling of the target as the He appears to be escaping into the chase rather than the water
- Target scan appears to be fine, so there is no indication of a water leak

MINERνA POT/Day
Nov 2009 - Present

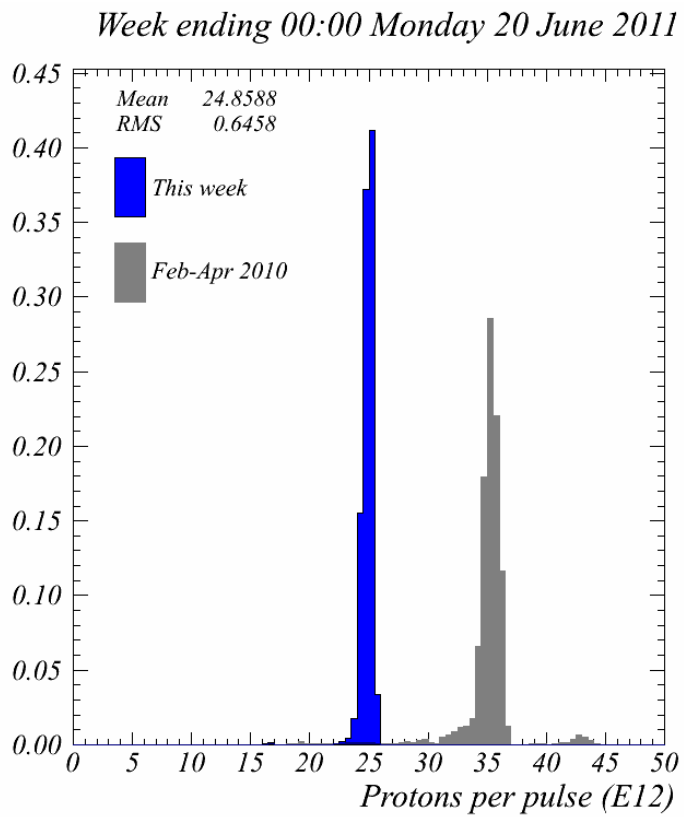


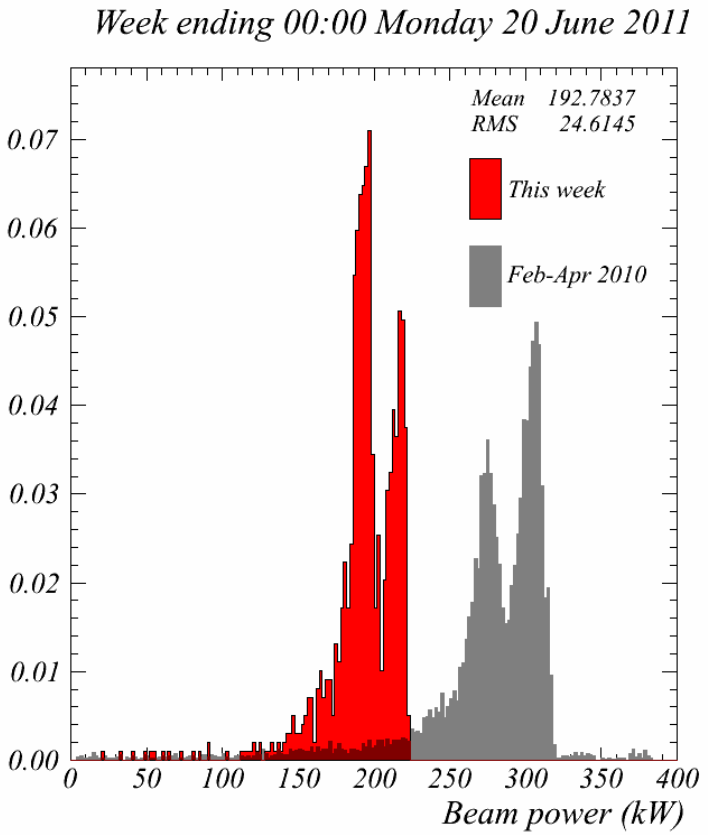
Accumulated POT to Jun 16



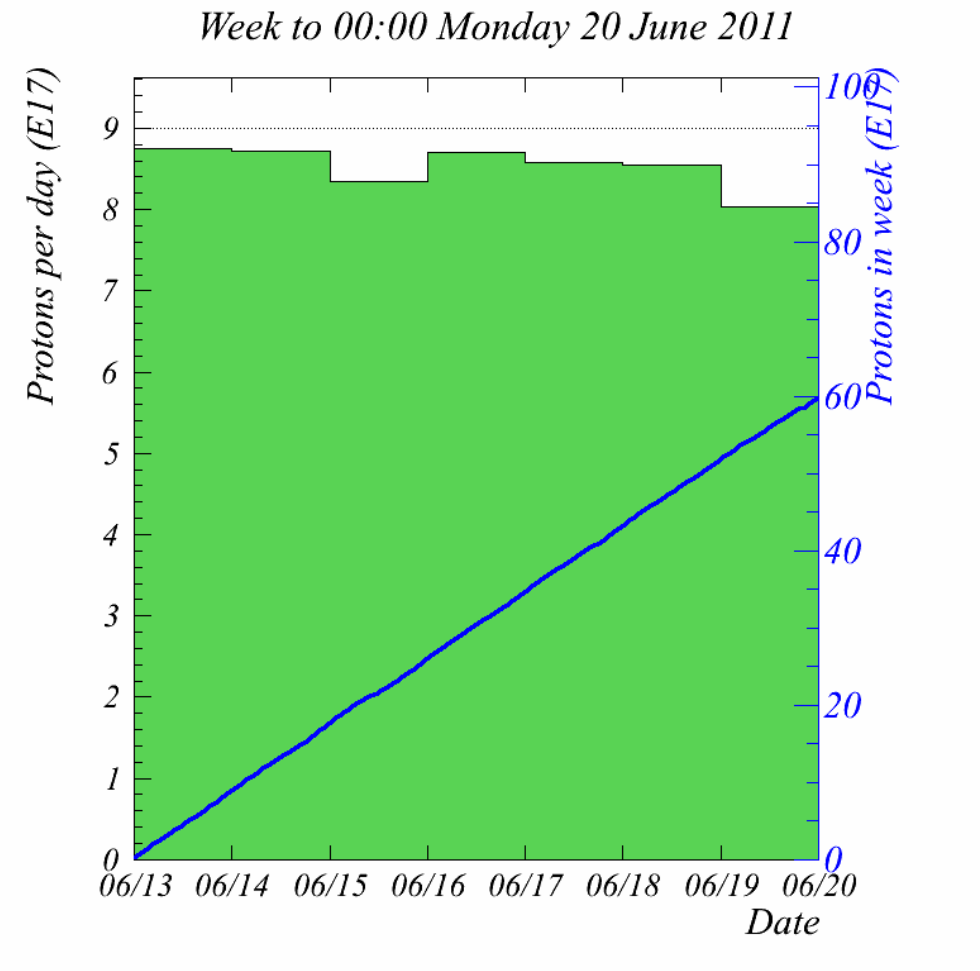
- Anti-ν run, full scale corresponds to 1.76×10^{20} POT
  - # POT for collected for anti-ν before Mar 23 10, official start of MINERνA ν run
- Minerva run , full scale corresponds to 4.9×10^{20} POT
  - # for which MINERvA project & experiment were reviewed & the detector built.
- Projected assumes 0.92×10^{18} POT/day and adding the limit of 2.5×10^{12} POT/pulse to Sep plus 2 week shutdown in Aug 2011 to change target
  - # 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

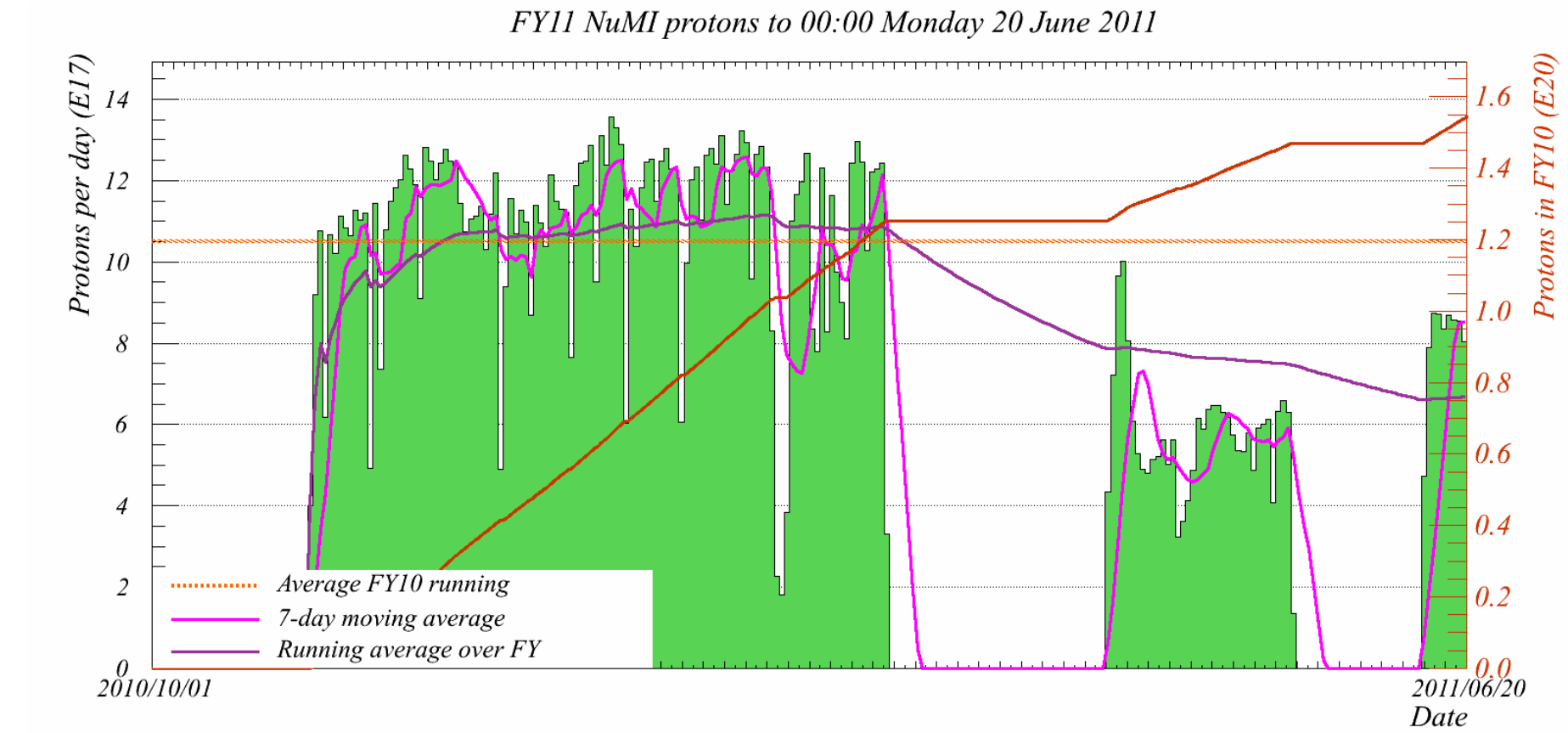




Protons for the Week



FY2011 Protons



NuMI Protons over History