# The MINERνA Operations Report
# All Experimenters Meeting

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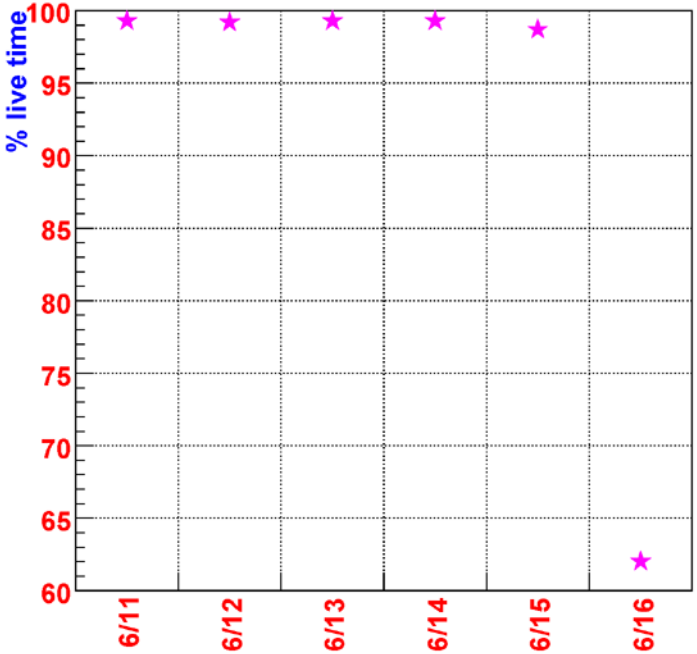
Jun 20, 2011

# ν Data

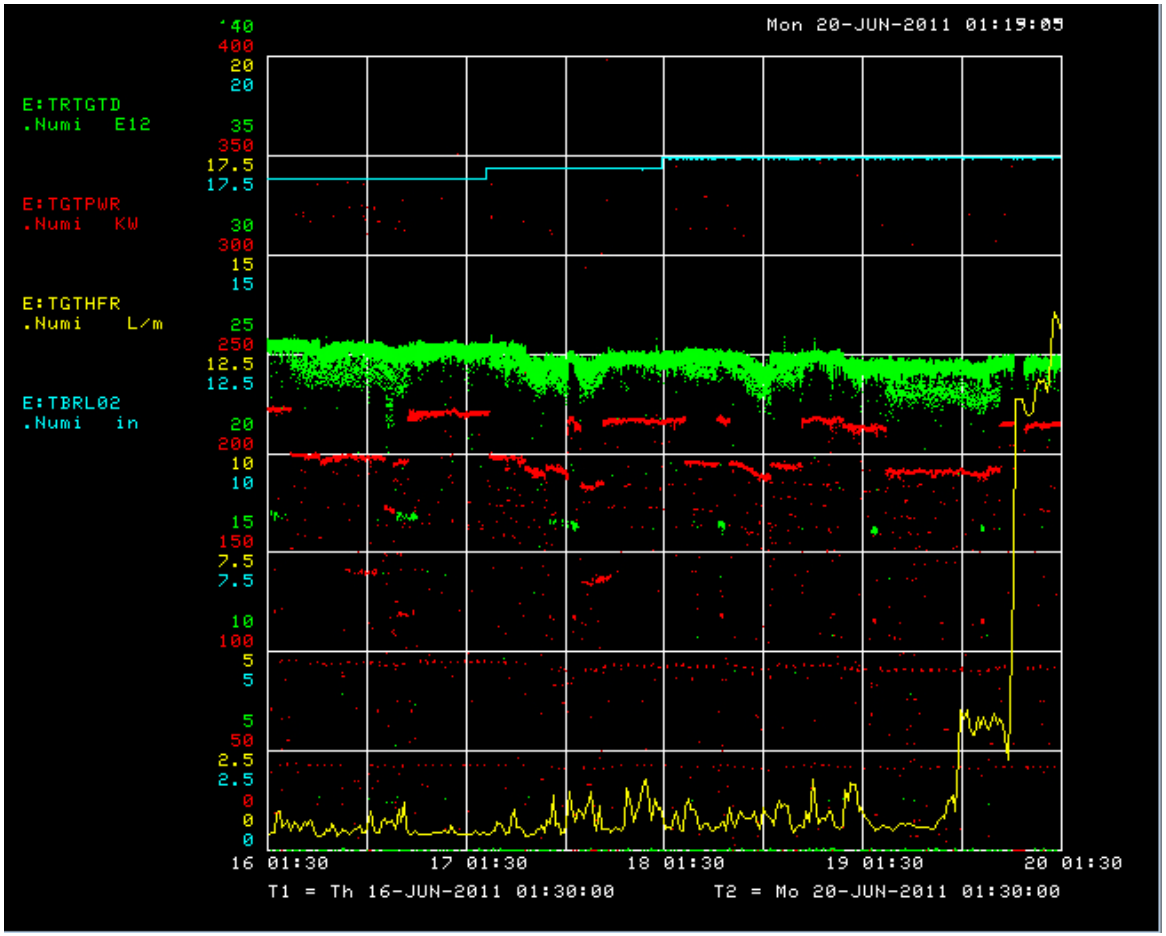
% live time Apr 22 – Apr 28

| Date | POT Recorded | POT Delivered | Live Time | Comment |
|---|---|---|---|---|
| 6/11/2011 | 4.67E+17 | 4.70E+17 | 99.30% | |
| 6/12/2011 | 7.79E+17 | 7.86E+17 | 99.20% | |
| 6/13/2011 | 8.70E+17 | 8.76E+17 | 99.30% | |
| 6/14/2011 | 8.62E+17 | 8.68E+17 | 99.30% | |
| 6/15/2011 | 8.26E+17 | 8.36E+17 | 98.70% | |
| 6/16/2011 | 5.41E+17 | 8.73E+17 | 62.00% | Processing |
| **Total** | **4.34E+18** | **4.71E+18** | **9.23E-01** | |



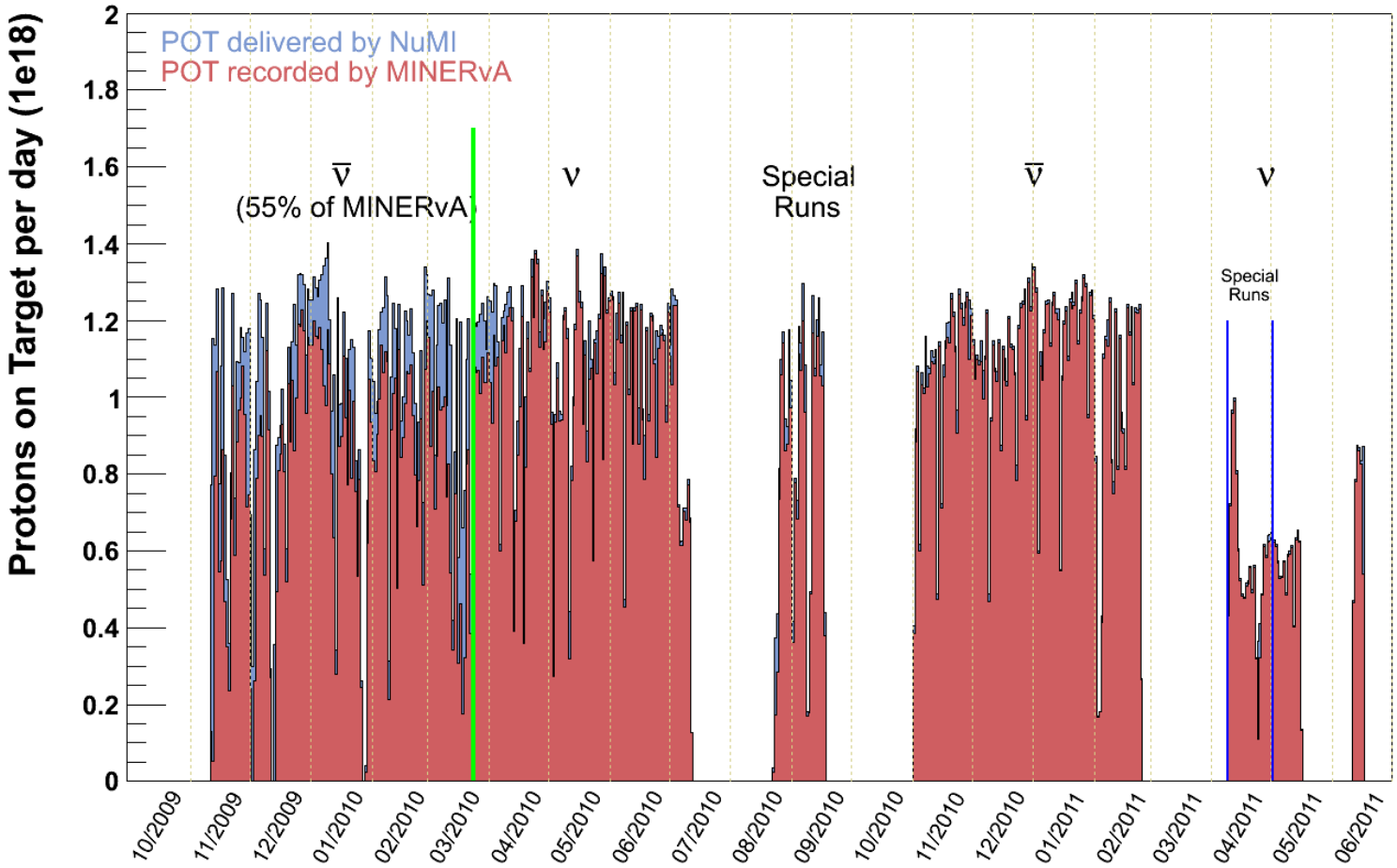

- Limit $2.5\times10^{13}$ POT/pulse for target
- Started up in LE250 HE ν mode,
  - We have taken $0.72\times10^{19}$ POT as of Jun 19.
- 92.3% live from Apr 22 – Apr 28, $0.335\times10^{19}$ POT
  - However, the inefficiency Jun 16 – Processing problem which is recoverable.
  - MINOS live time is about 98% to Jun 19
- Tomorrow, Jun 21, the plan is to move target to LE10 FHC

# He Leak

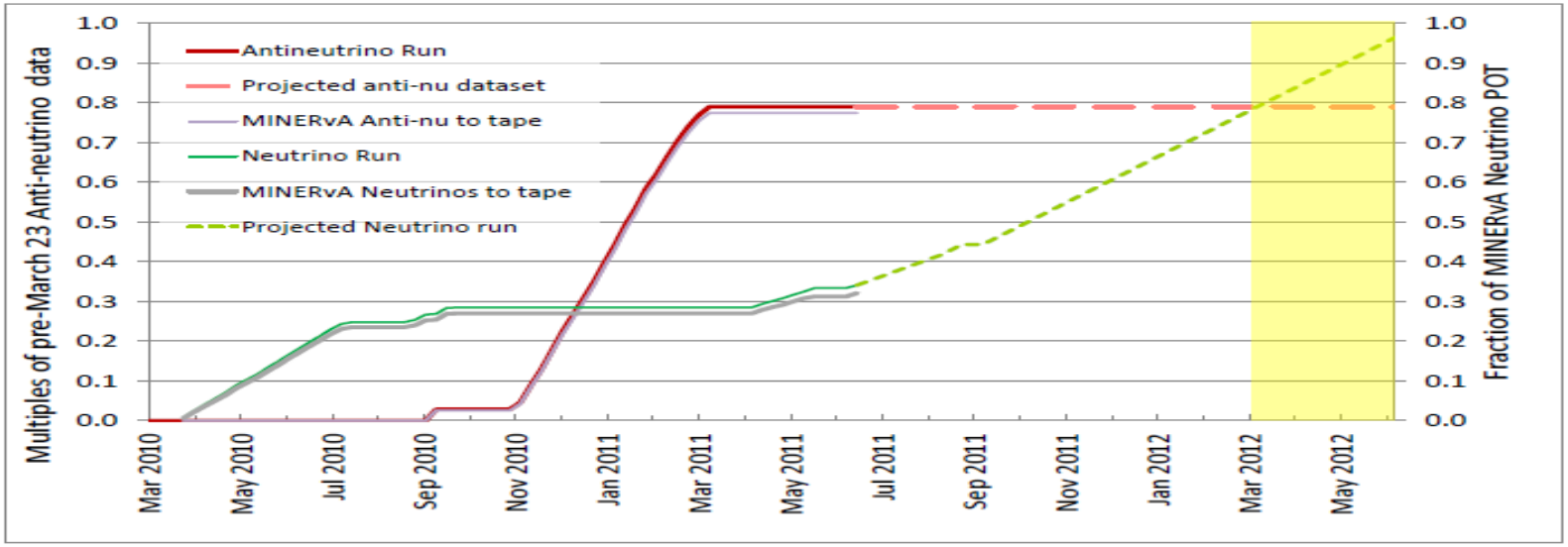



- The He leak has increased to about 13 l/min.
- This leak does not appear to affect the cooling of the target as the He appears to be escaping into the chase rather than the water
- Target scan appears to be fine, so there is no indication of a water leak

# MINERνA POT/Day
# Nov 2009 - Present

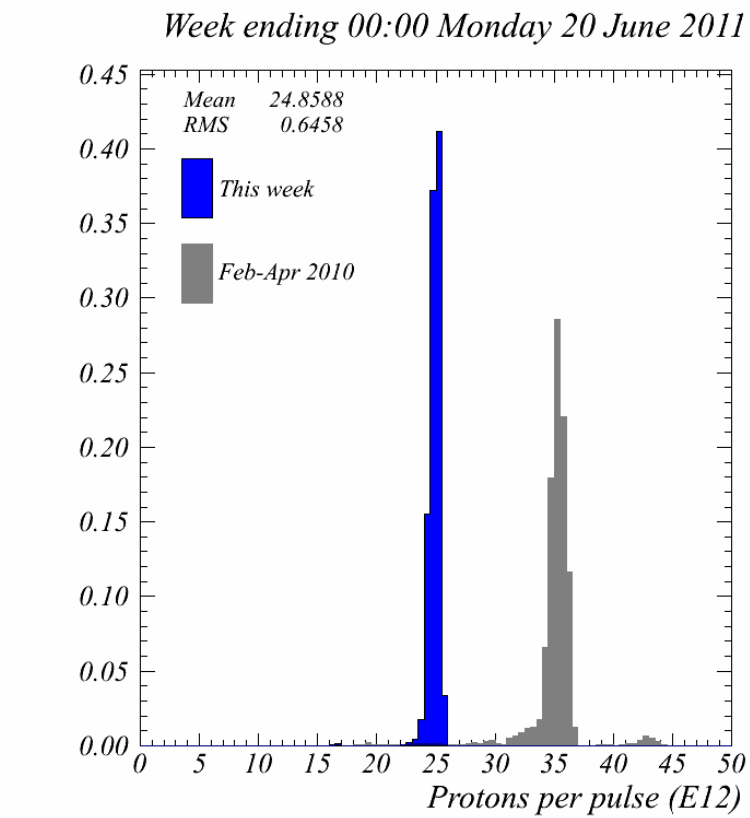


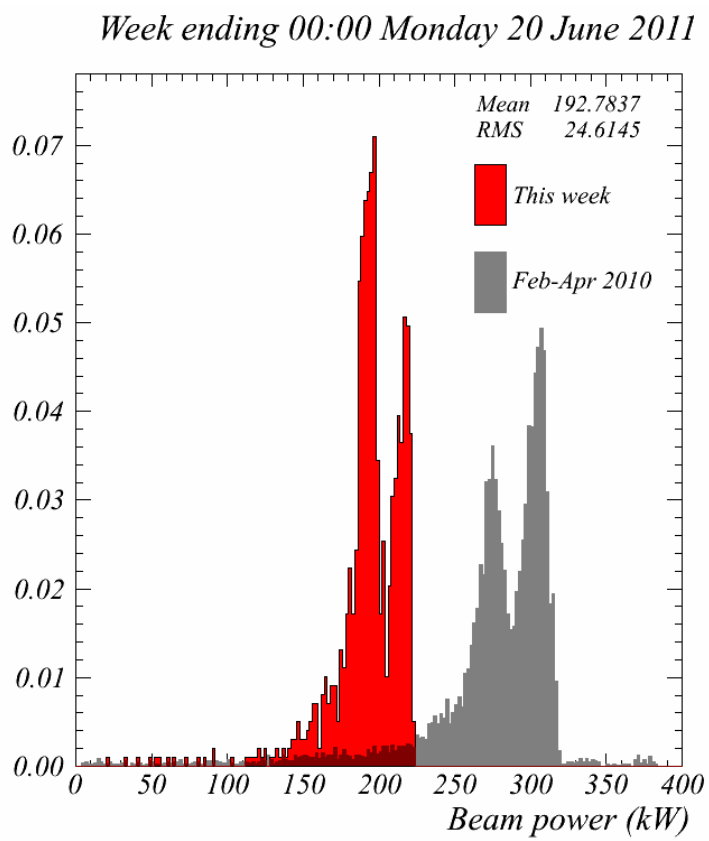
# Accumulated POT to Jun 16



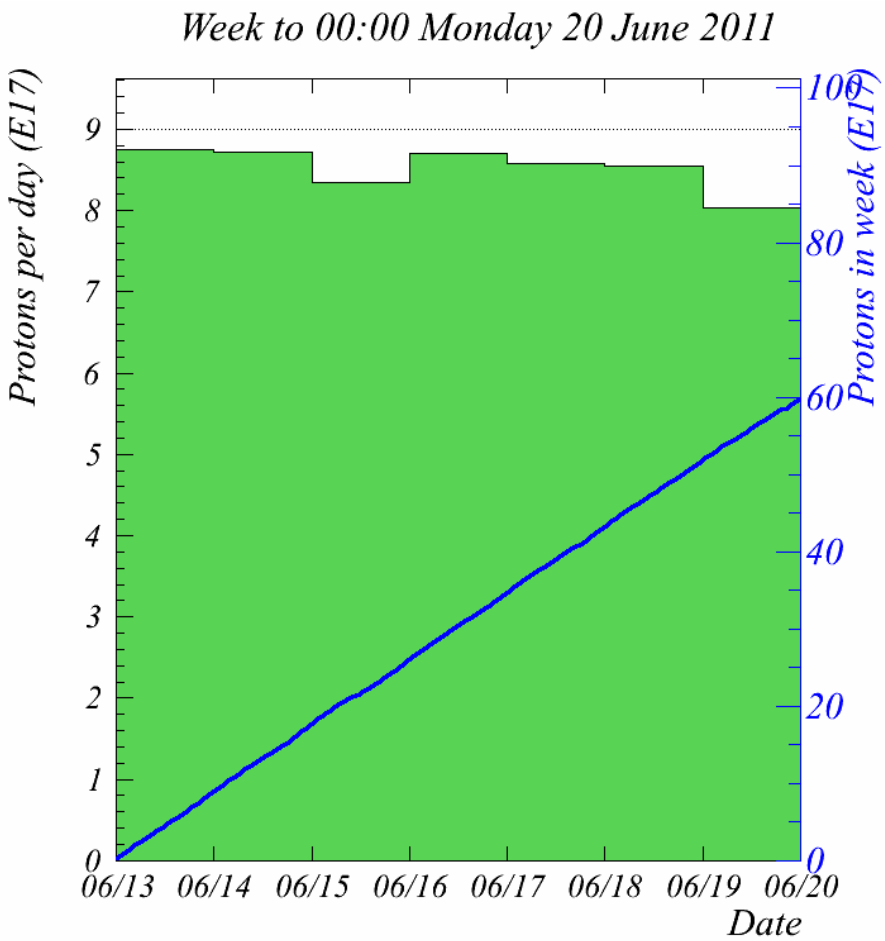

- Anti-ν run, full scale corresponds to $1.76\times10^{20}$ POT
  - # POT for collected for anti-ν before Mar 23 10, official start of MINERνA ν run
- Minerva run , full scale corresponds to $4.9\times10^{20}$ POT
  - # for which MINERvA project & experiment were reviewed & the detector built.
- Projected assumes $0.92\times10^{18}$ POT/day and adding the limit of $2.5\times10^{12}$ 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

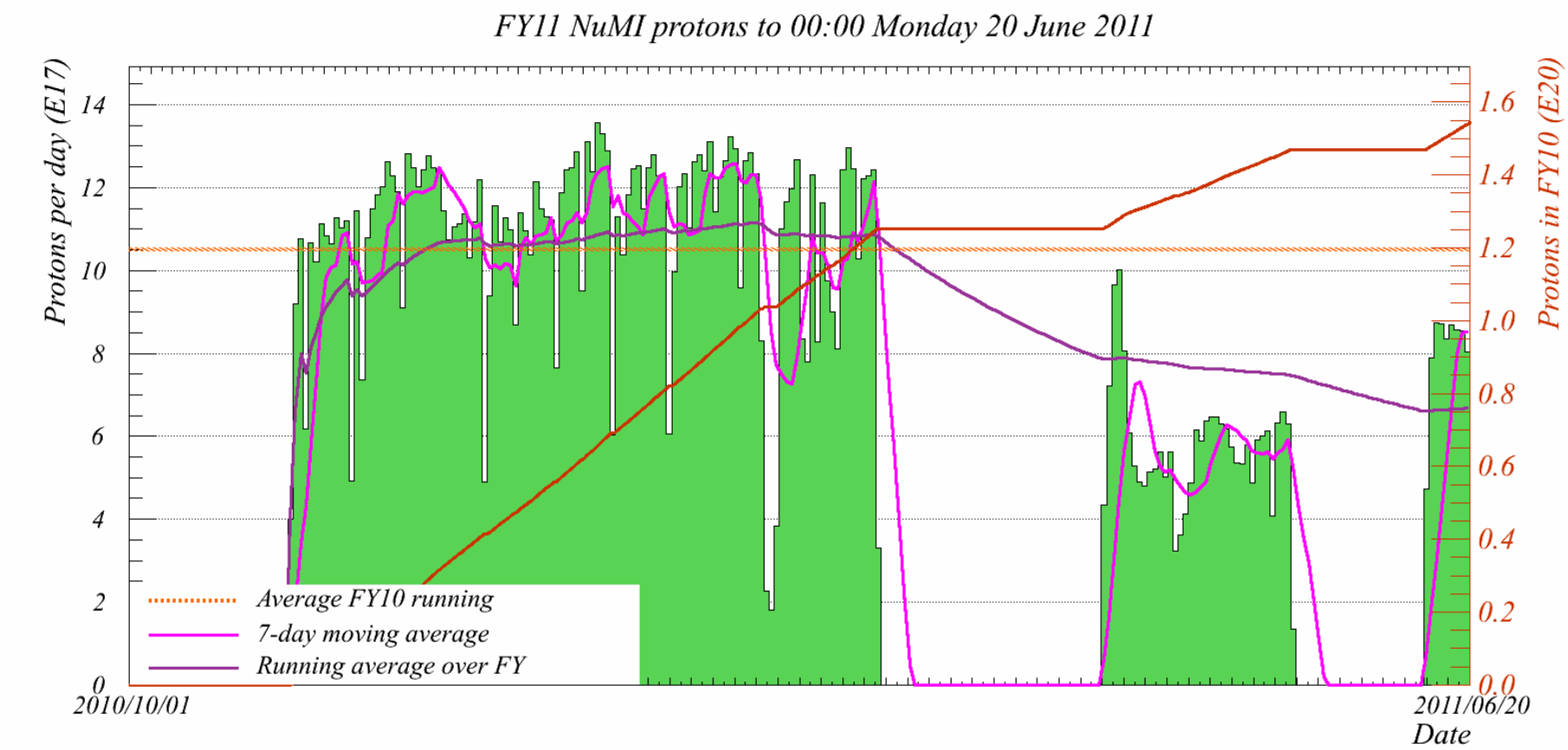
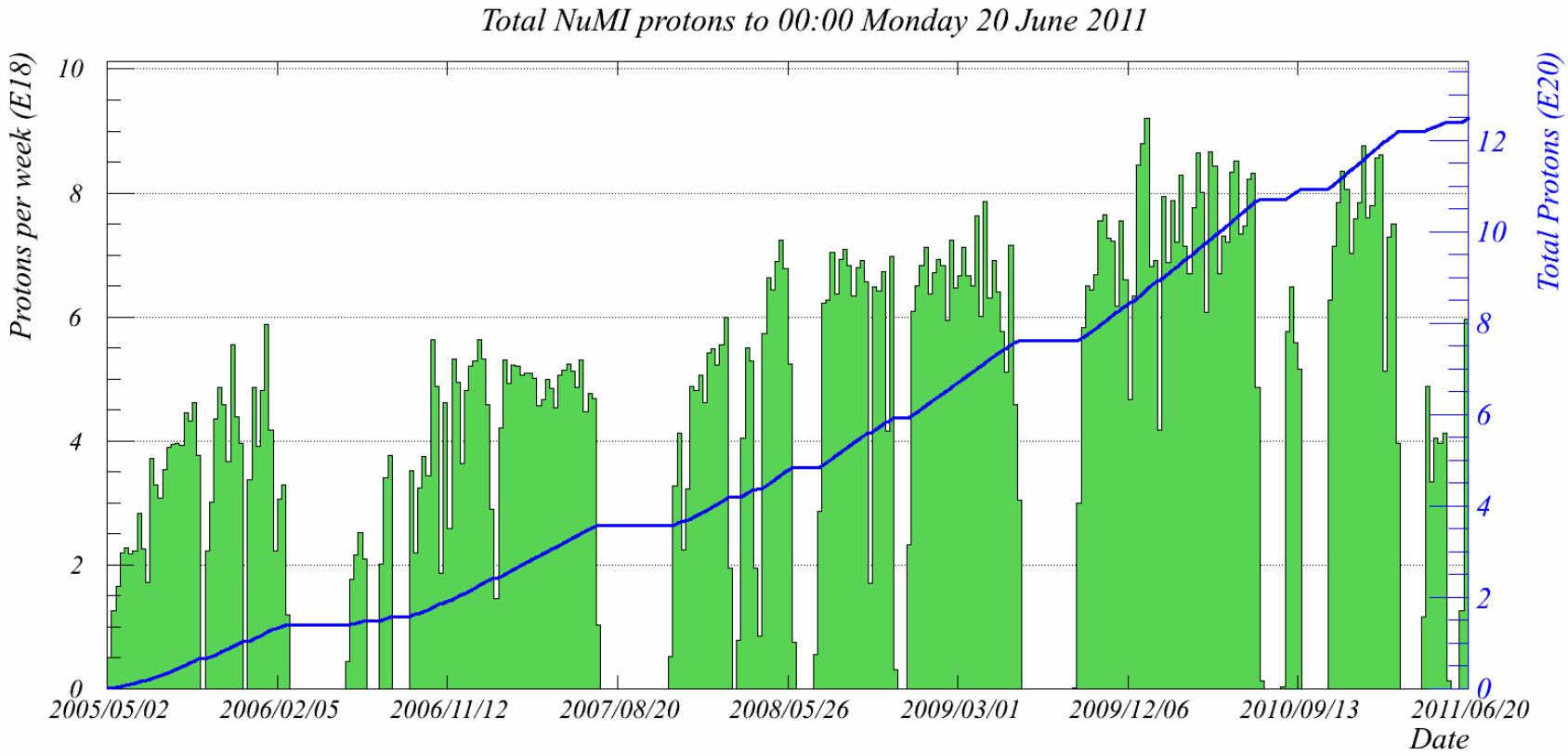


# Protons for the Week



# FY2011 Protons



# NuMI Protons over History