

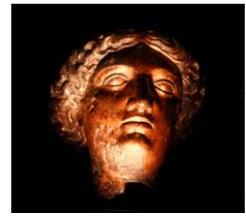
# The MINERvA Operations Report

## All Experimenters Meeting

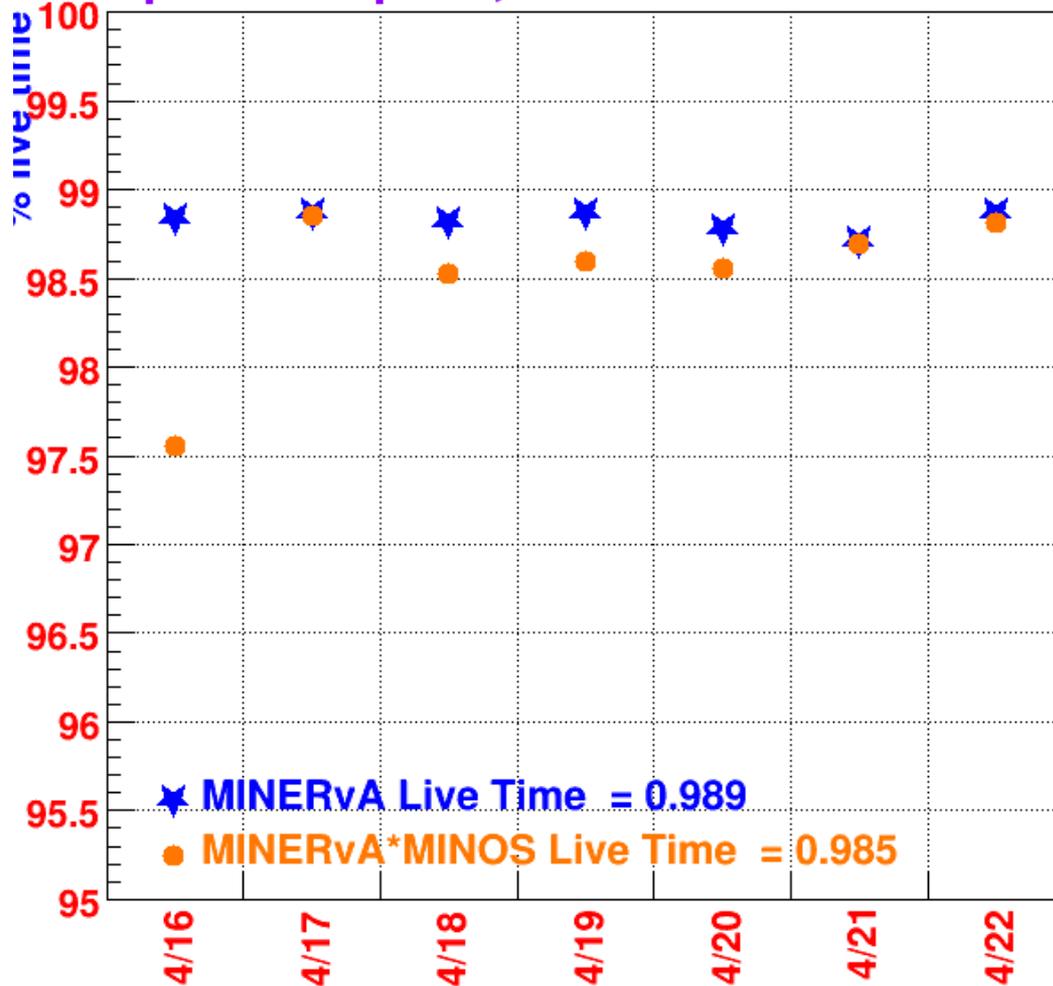
Howard Budd, University of Rochester  
Apr 27, 2015



# $\nu$ Data



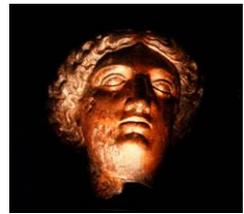
Apr 16 to Apr 22,  $0.94 \times 10^{19}$  POT Delivered



- Live time, 4/16-22, 2015
- $0.94 \times 10^{19}$  POT
- MINERvA 98.9%
- MINERvA\*MINOS 98.5%



# Apr 21-22 AD shutdown



- We replaced 3 FEBs.
  - FEB digitizes 64 channels for a 64 channel multi-anode PMT. The charge for 16 channels is stored on one TriP-t chip for the spill. For these FEBs, one of the 4 TriP-t chips, which stores the high gain channels, had greater cross talk than nominal. This cross talk was seen in our online monitoring plots as an intensity effect.
  - The replacement fixed the problem.
  - Two roof panels were removed to replace these FEBs.
    - Thanks to John Voirin's group for removing and replacing the roof.
- In anticipation of potentially installing a UPS in the DAQ rack, we measured the current of the VME crates and VME crates+computer.
  - Thanks to Linda Bagby for measuring this



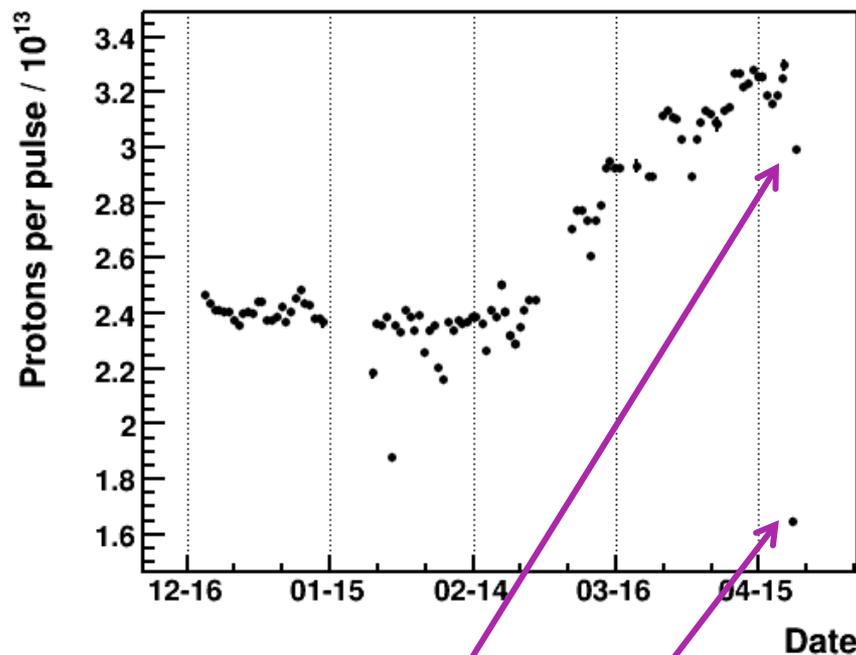
# Apr 21-22 Shutdown



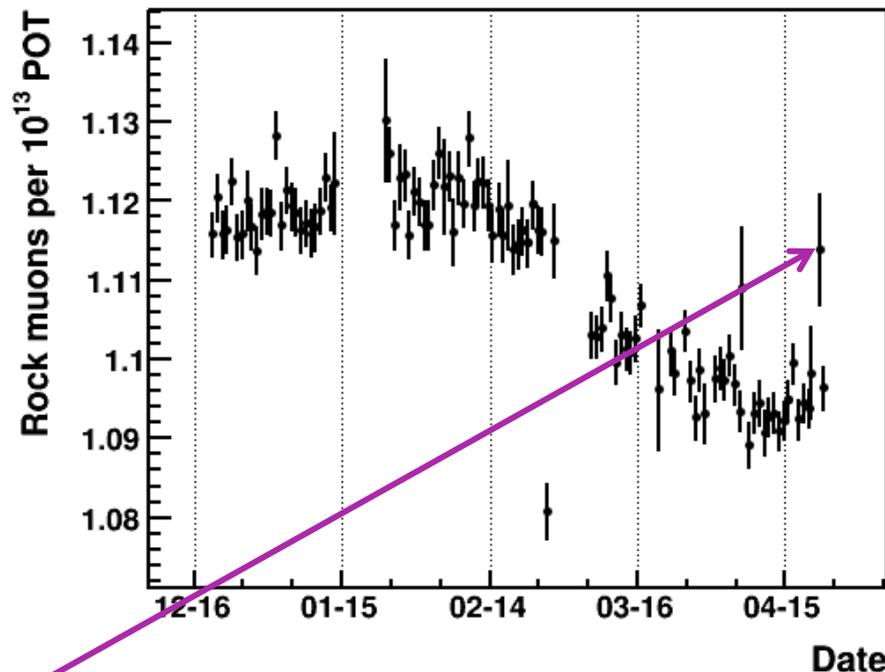
- During the startup on Apr 22, the POT in the NuMI data base were zero.
  - Several front-end boards were synched with the GPS-reference timestamp and were off by one second.
  - This will be discussed in the MINOS AEM talk.
  - The information we need will be recovered.



# Rock Muons/POT



POT/Pulse

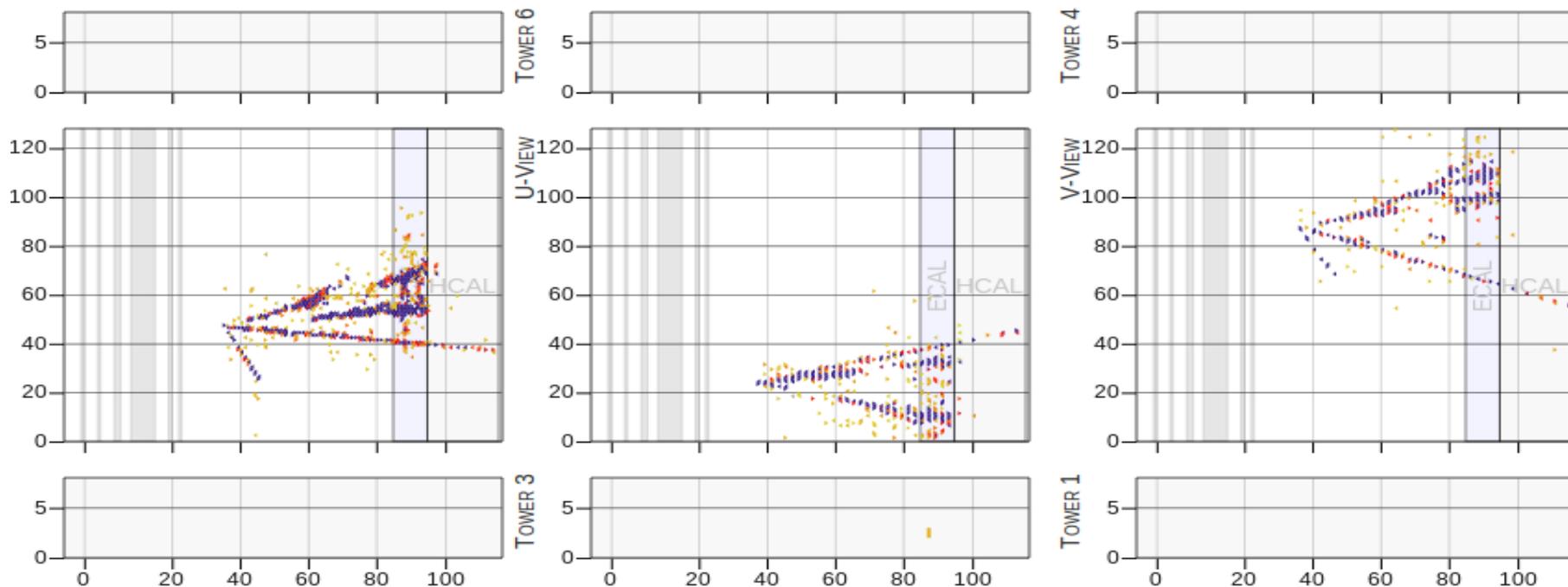


Rock Muons/POT

- Apr 22, evening coming out of the shutdown.
- Apr 23,



# Event Display



X View

V View

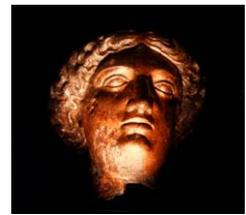
U View

Tracker CC  $\pi^0$  Event



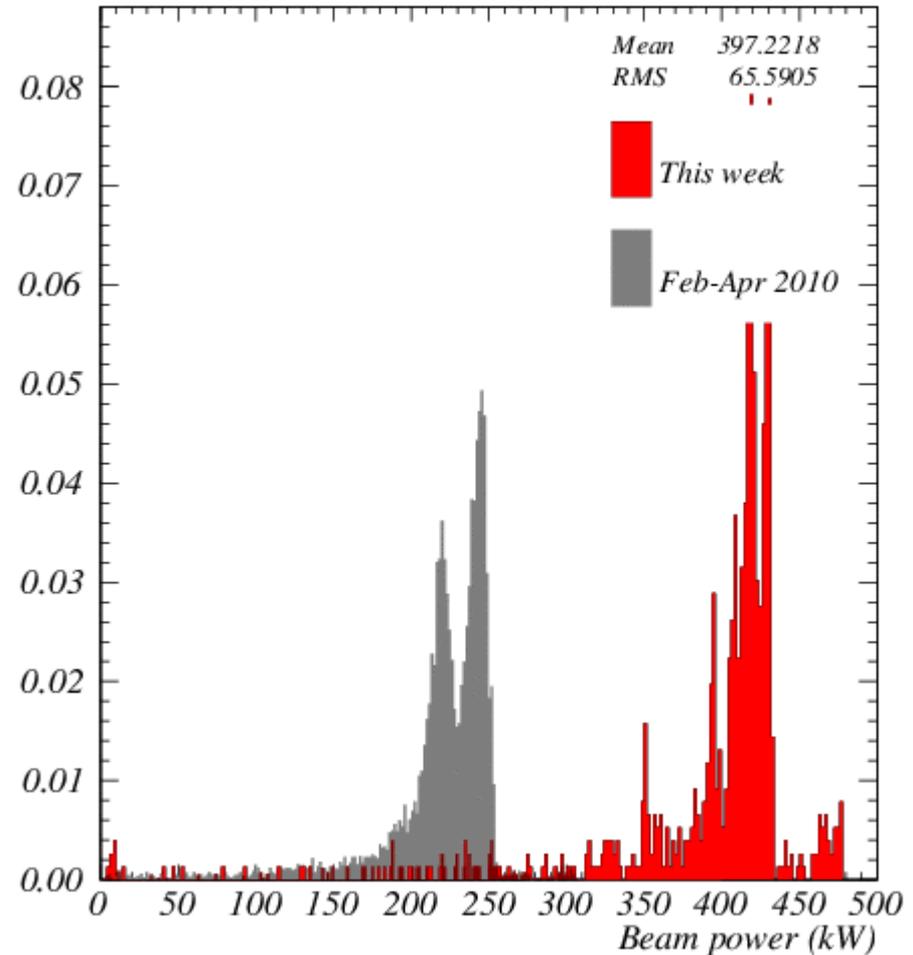
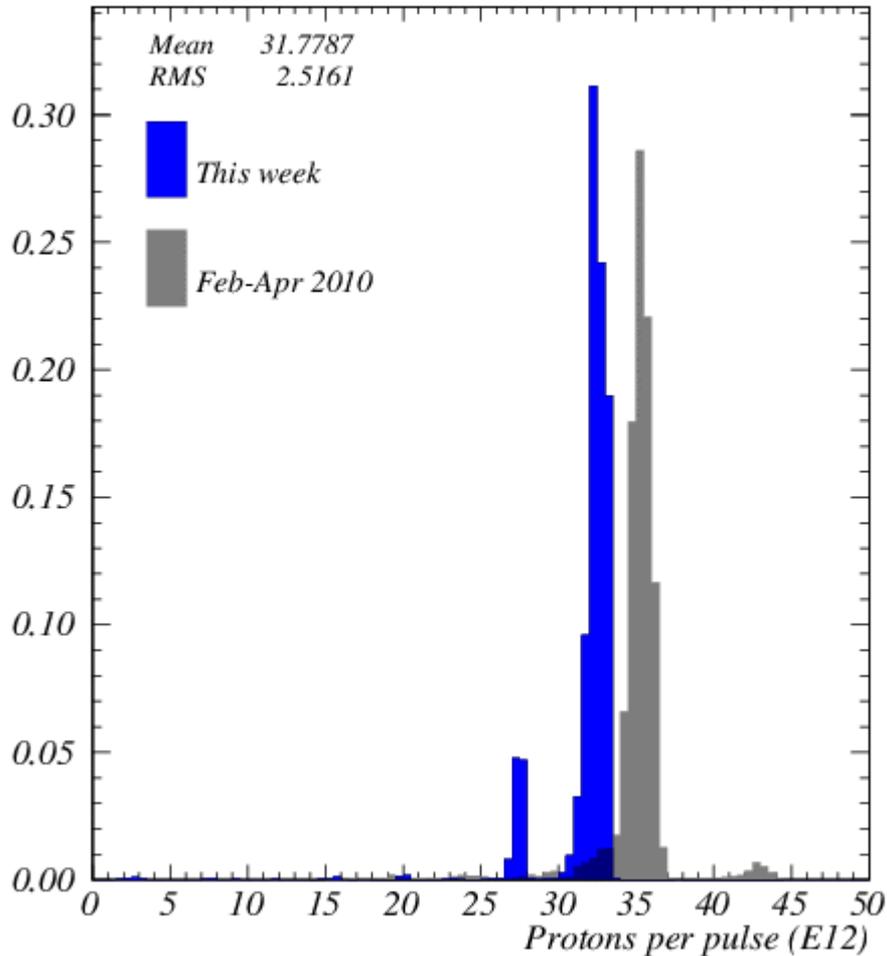
# NuMI Beam Plots

## Apr 20-26, 2015



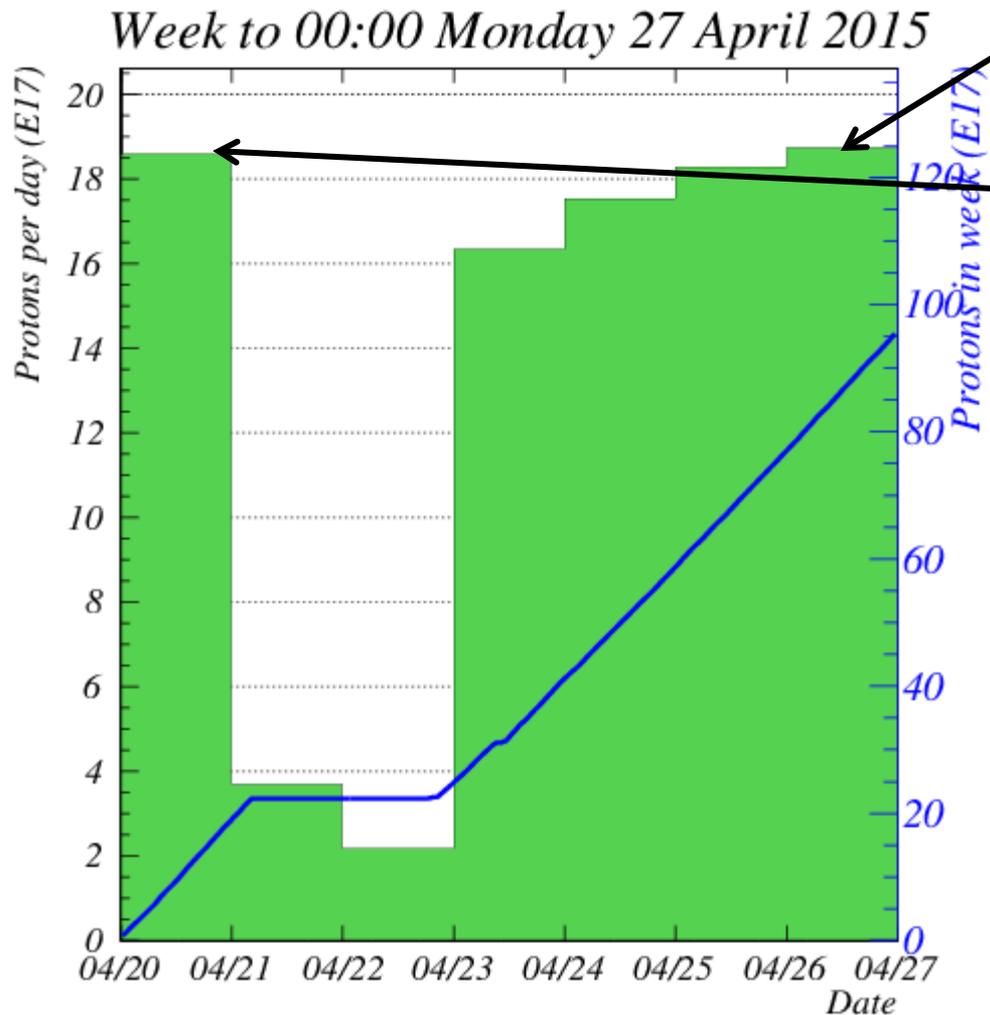
Week ending 00:00 Monday 27 April 2015

Week ending 00:00 Monday 27 April 2015





# Protons for the Week



2d best day on Apr 26 with  $18.8 \times 10^{17}$  POT.

3d best day on Apr 20 with  $18.8 \times 10^{17}$  POT.

The best day was Apr 14 at  $19.0 \times 10^{17}$  POT.

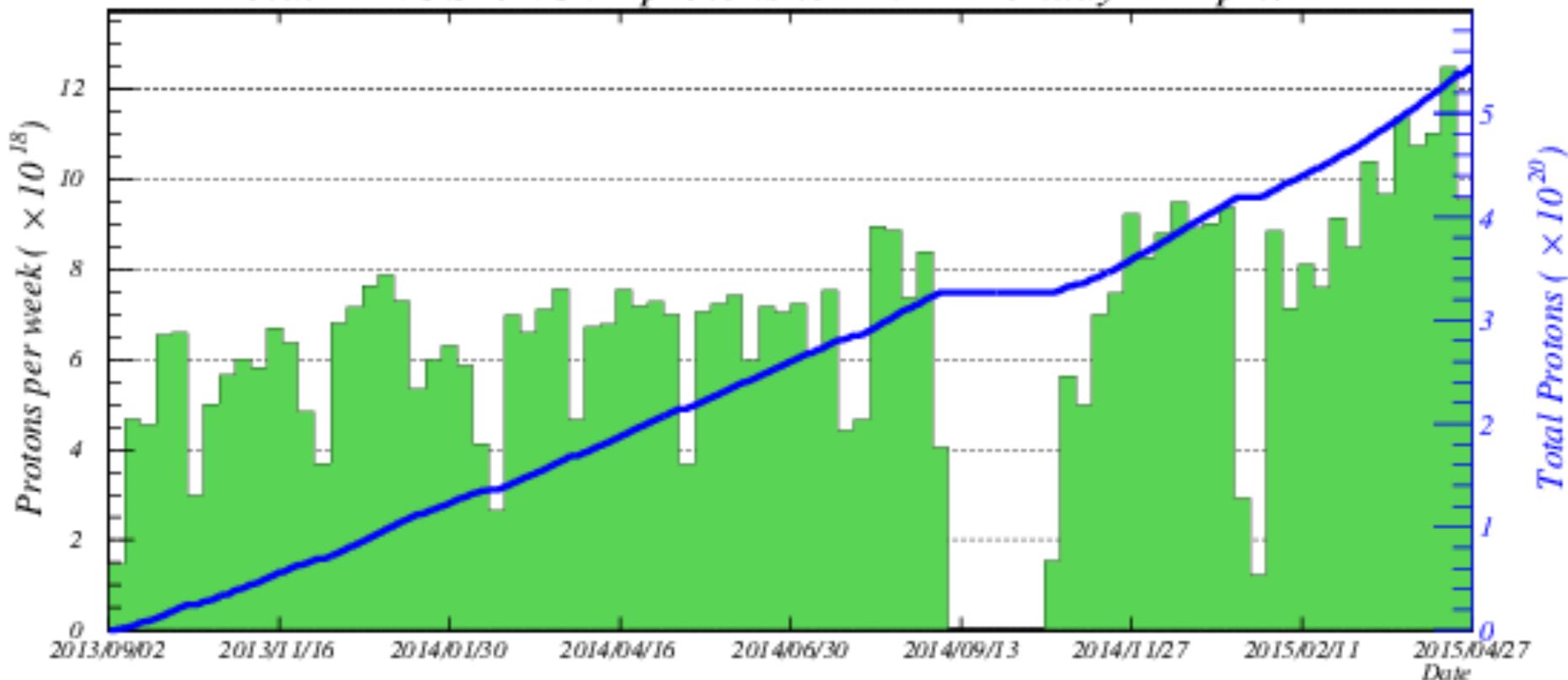
$0.95 \times 10^{19}$  POT  
Apr 20-26, 2015



# Protons for ME Run



Total MINOS+/NOvA protons to 00:00 Monday 27 April 2015



54.45  $\times 10^{19}$  POT - Sep 6, 2013 at 15:00 – Apr 26, 2015