

# The MINERvA Operations Report

## All Experimenters Meeting

Howard Budd, University of Rochester  
Jun 15, 2015

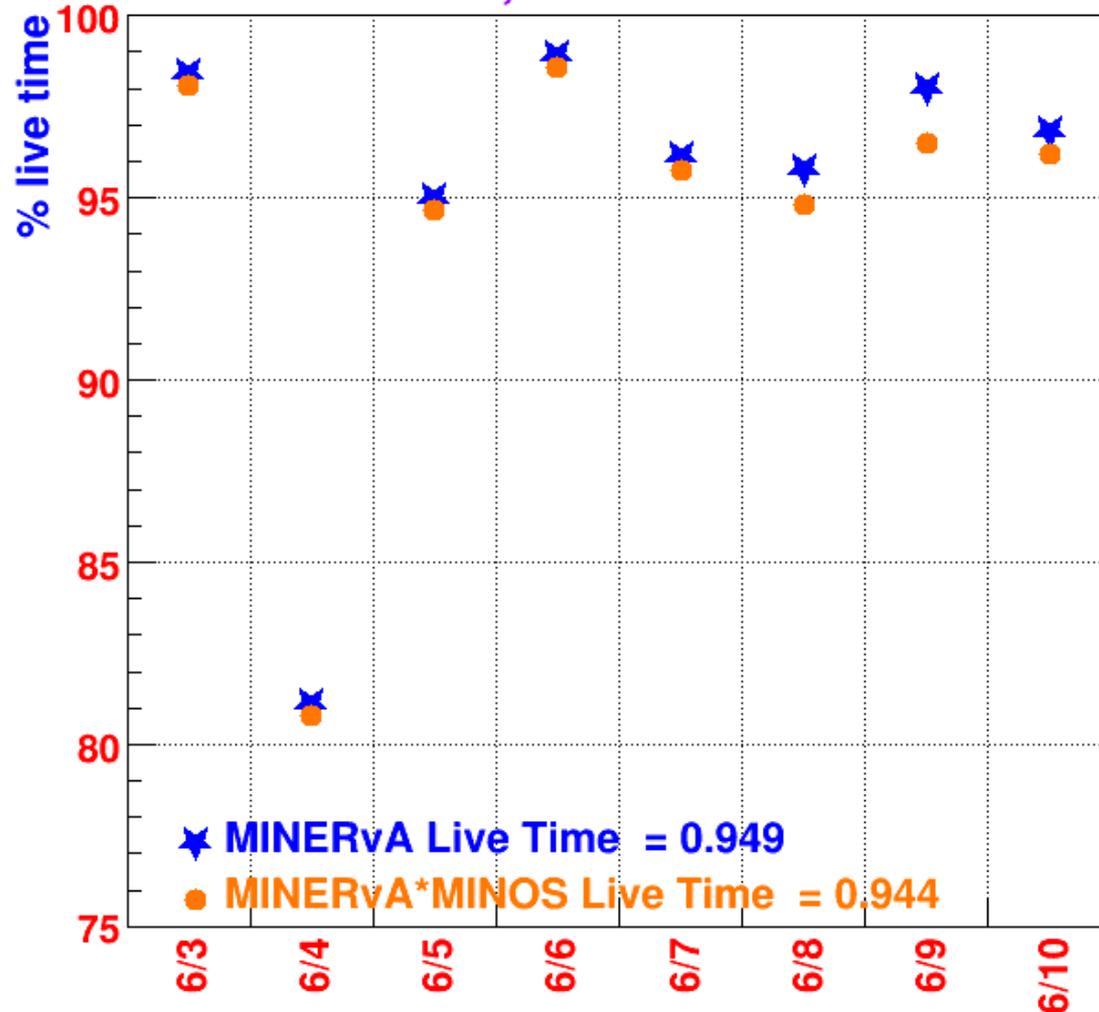




# $\nu$ Data



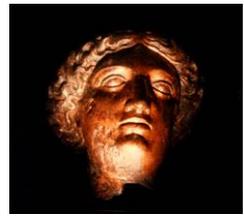
Jun 3 to Jun 10,  $1.24 \times 10^{19}$  POT Delivered



- Live time, Jun 3-10, 2015
- $1.24 \times 10^{19}$  POT
- MINERvA 94.9%
- MINERvA\*MINOS 94.4%



# v Data



- Jun 4,5,7,8, & 10.
  - Not all the subruns have been processed to calculate the live time
  - 2 weeks ago there was a fermigrid outage which created a backup. In addition, we were implementing the job sub-client when some of the jobs were failing. Although the back log should have cleared it hasn't. It's not clear what the problem is.
    - We will report the live times when all the files have been processed
    - The 95.3% live time reported for Jul 3 last week went up to 98.4% when all the subruns were processed.
  - The backup for the files for May 29-30 have not cleared and we still calculate a low live times for these days.



# Java Fileserver Failure



- A Java file server in AD failed on Jun 10 at 7:12 AM. This caused every Java process including the IFBeam processes to receive no data between 7:12 AM to 9:04 AM. In addition, the ACNET datalogger data was also lost during this period of time. Therefore, the beam data for this interval cannot be recovered. The experiments cannot use this data. The end time of this outage is not clean as most of the Java processes had to be restarted manually.
  - The Java server was restarted. There do exist hot spares. A new computer has been ordered to replace the current one during the shutdown.



# Horn Off Data



- We took about 2 weeks of horn off data in the LE Run. We would like to match that data set for the ME Run. We have already taken 5 days of horn off data in the ME Run. Therefore, we request another 2 weeks (1.5E19 POT) of horn off data.
  - Different target, different POT/spill, but the neutrino energy spectrum should be similar to the LE beam configuration
- For this running period we will be planning on running without an owl shifter.
  - We have been running well with the DAQ not stopping. We do not expect to lose much data.
  - The Fermilab operations support group is working on a generic tool to contact experts automatically if the DAQ stops.. This will force us to develop shifter procedures for the morning shifter after not having a shifter for 8 hours.
  - If we lose a lot of data we will revisit the decision.



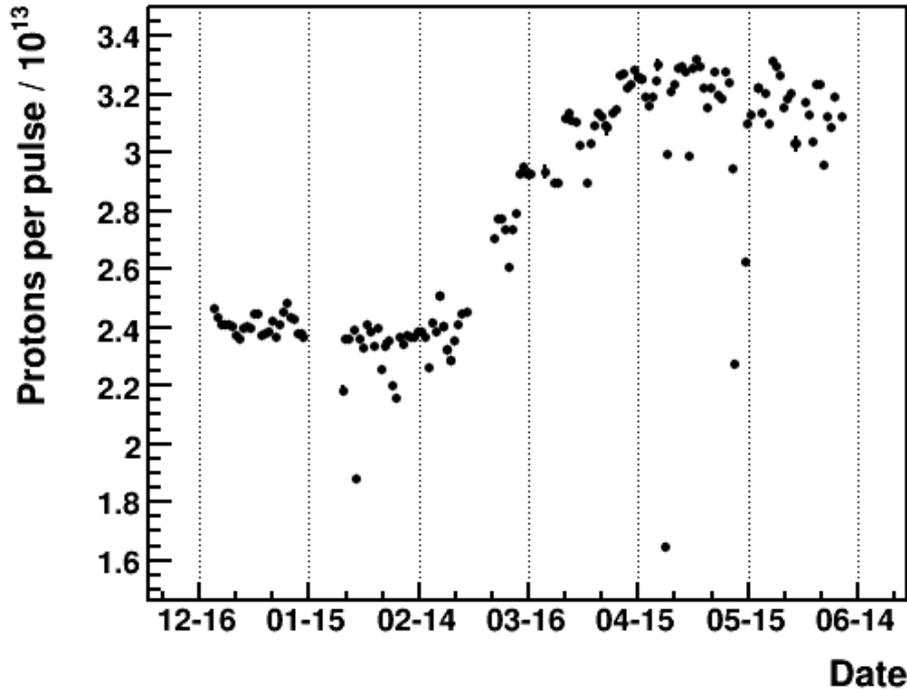
# AC Downtime Plan for Jun 17



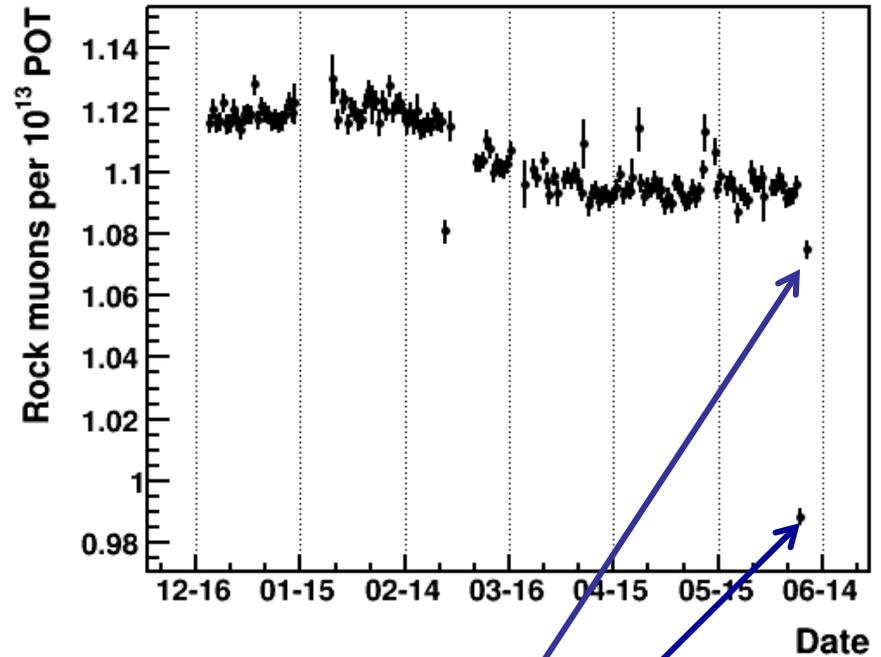
- We are planning on swapping a CROC-E board
  - We have described the problems that were associated with this CROC-E in June 1, 2015 AEM talk
  - Twice an event associated with this CROC-E disrupted reading out the VME crates
  - One of the chains on this CROC-E has occasionally been giving “Device Header” errors. We can’t unpack the gates in a subrun after a “Device Header” error
- A clone of mnvonlinelogger, the computer which controls our online monitoring, will be installed in the “Hot Spares Rack” in the MINOS Hall. We will do tests to insure that it works the way “logger” works.
  - Thanks to Bonnie King of Scientific Computing Division and Geoff Savage of the Neutrino Division



# Rock Muons/POT



POT/Pulse

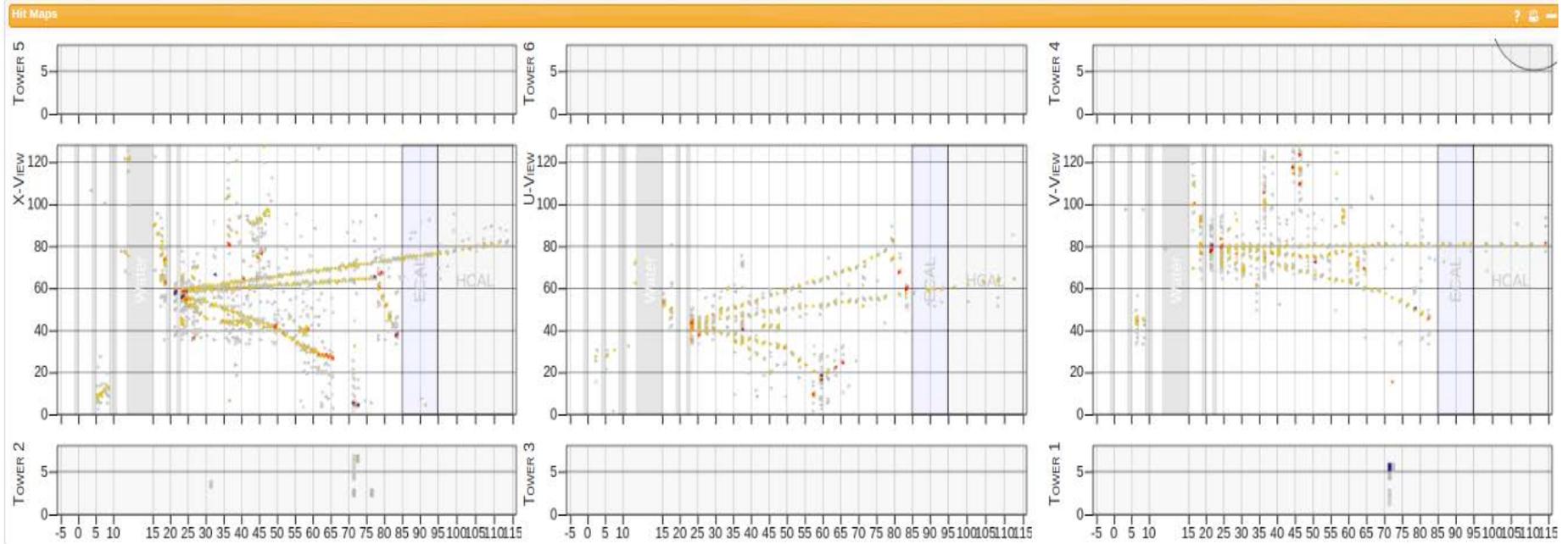
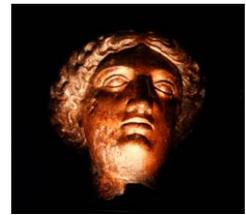


Rock Muons/POT

- The Rock Muons/POT points low for 2 days because of the horn current scans



# Event Display



X View

V View

U View

CC Nuclear Target Event

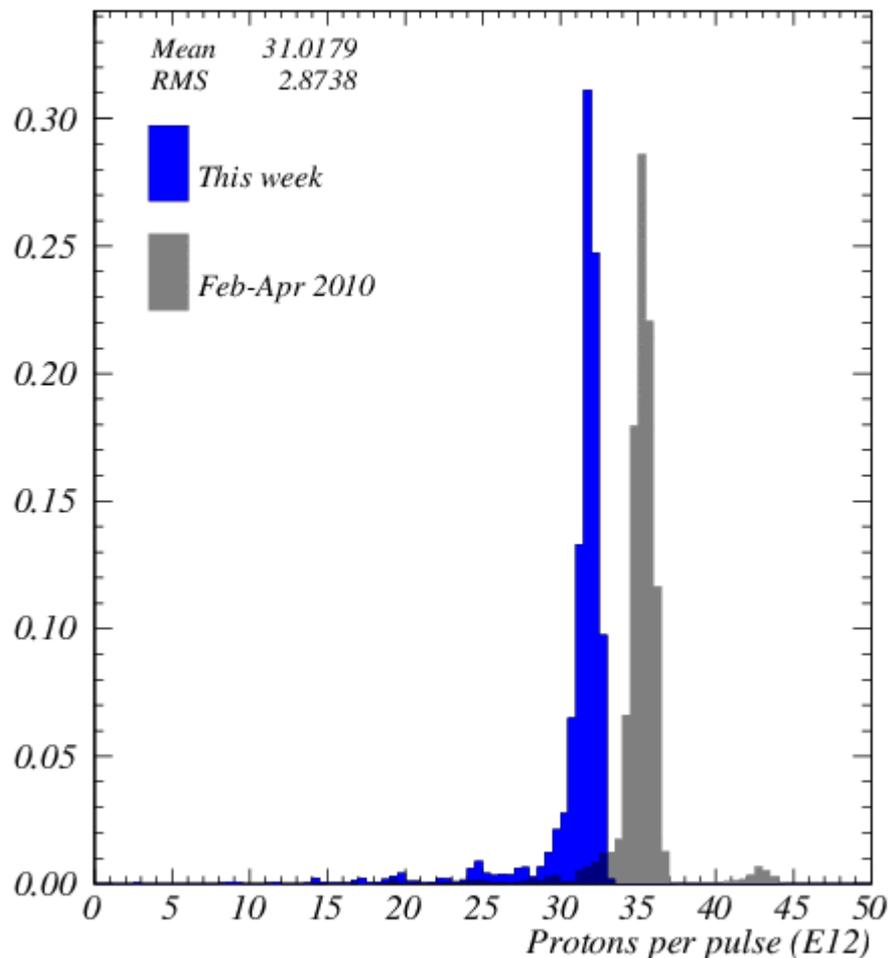


# NuMI Beam Plots

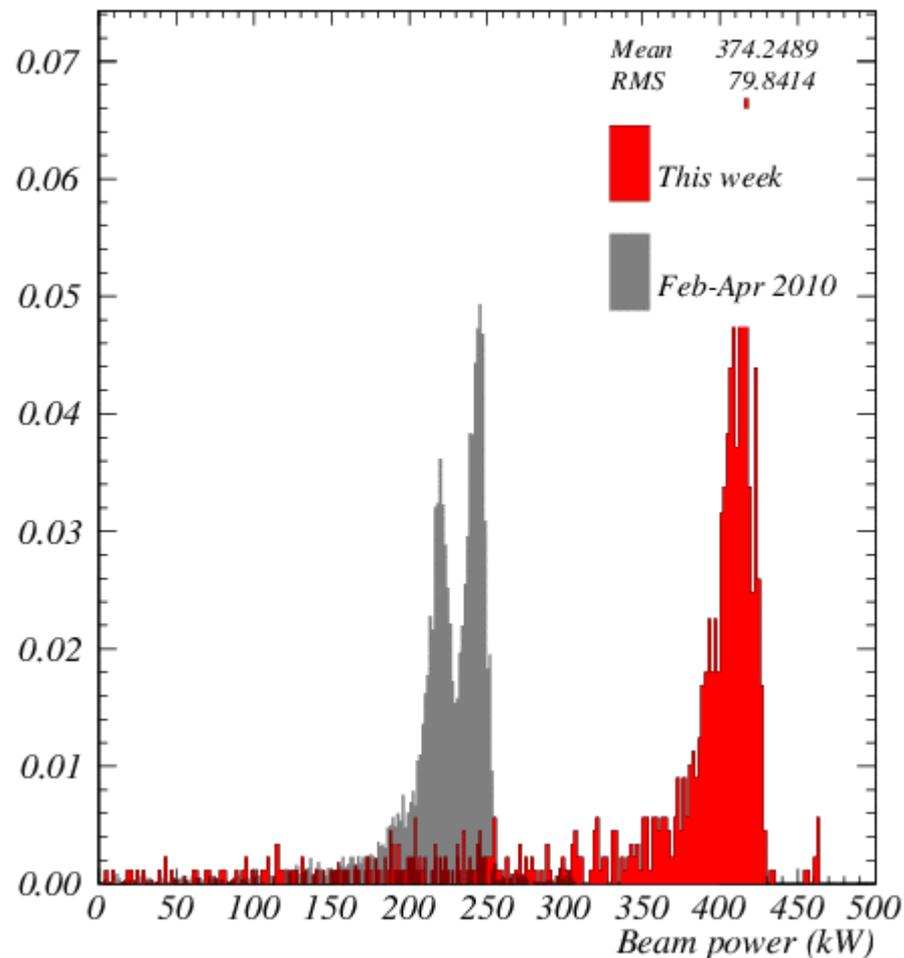
## Jun 15 - 21, 2015



Week ending 00:00 Monday 15 June 2015

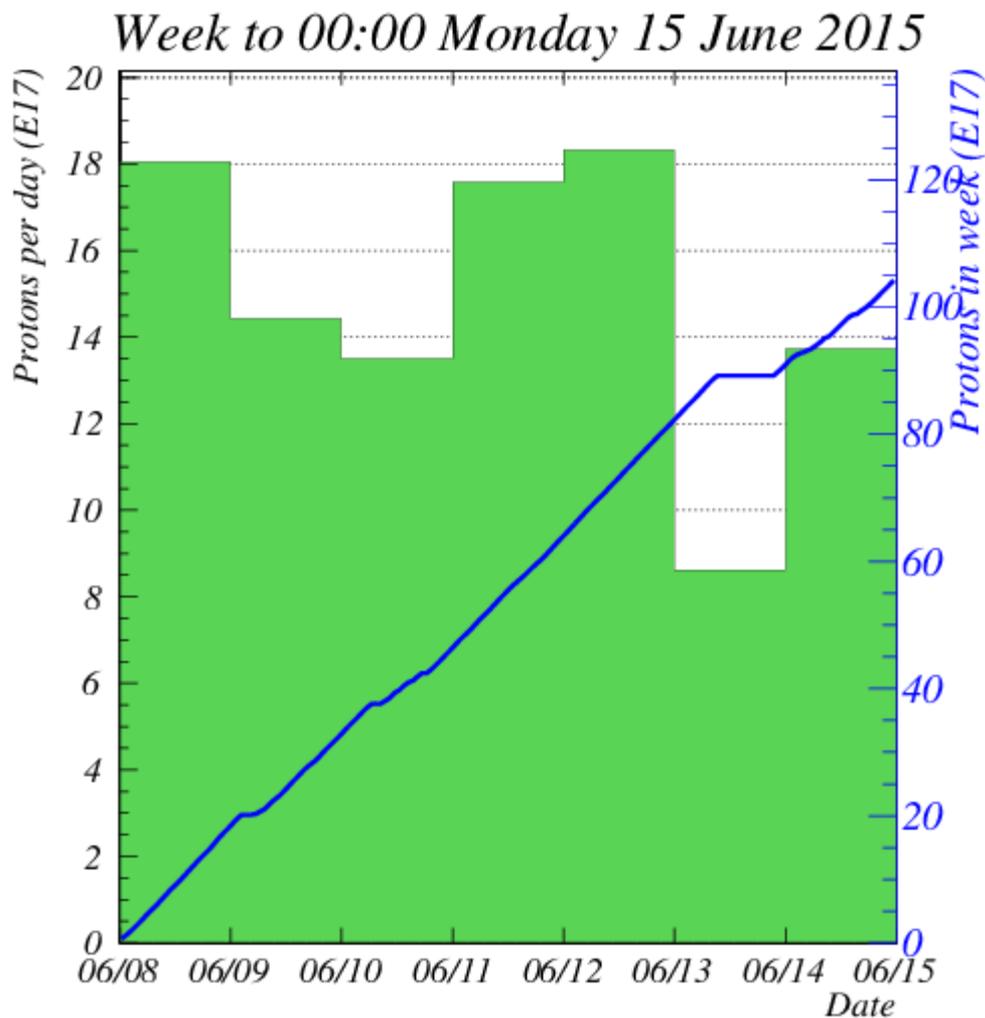


Week ending 00:00 Monday 15 June 2015





# Protons for the Week



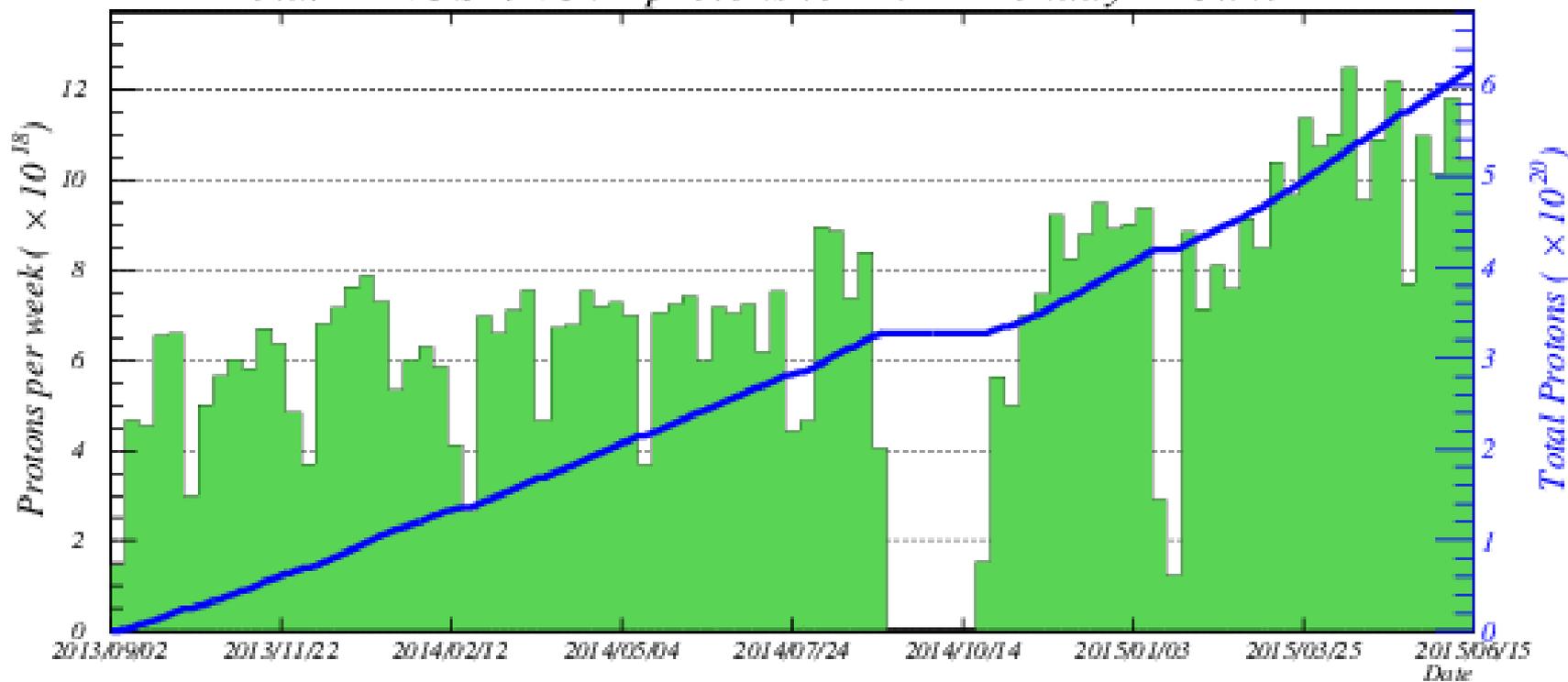
$1.04 \times 10^{19}$  POT  
Jun 8-14, 2015



# Protons for ME Run



*Total MINOS+NOvA protons to 00:00 Monday 15 June 2015*



**61.85 $\times 10^{19}$  POT - Sep 6, 2013 at 15:00 – Jun 15, 2015**