

# The MINERvA Operations Report

## All Experimenters Meeting

Howard Budd, University of Rochester  
Sep 08, 2014



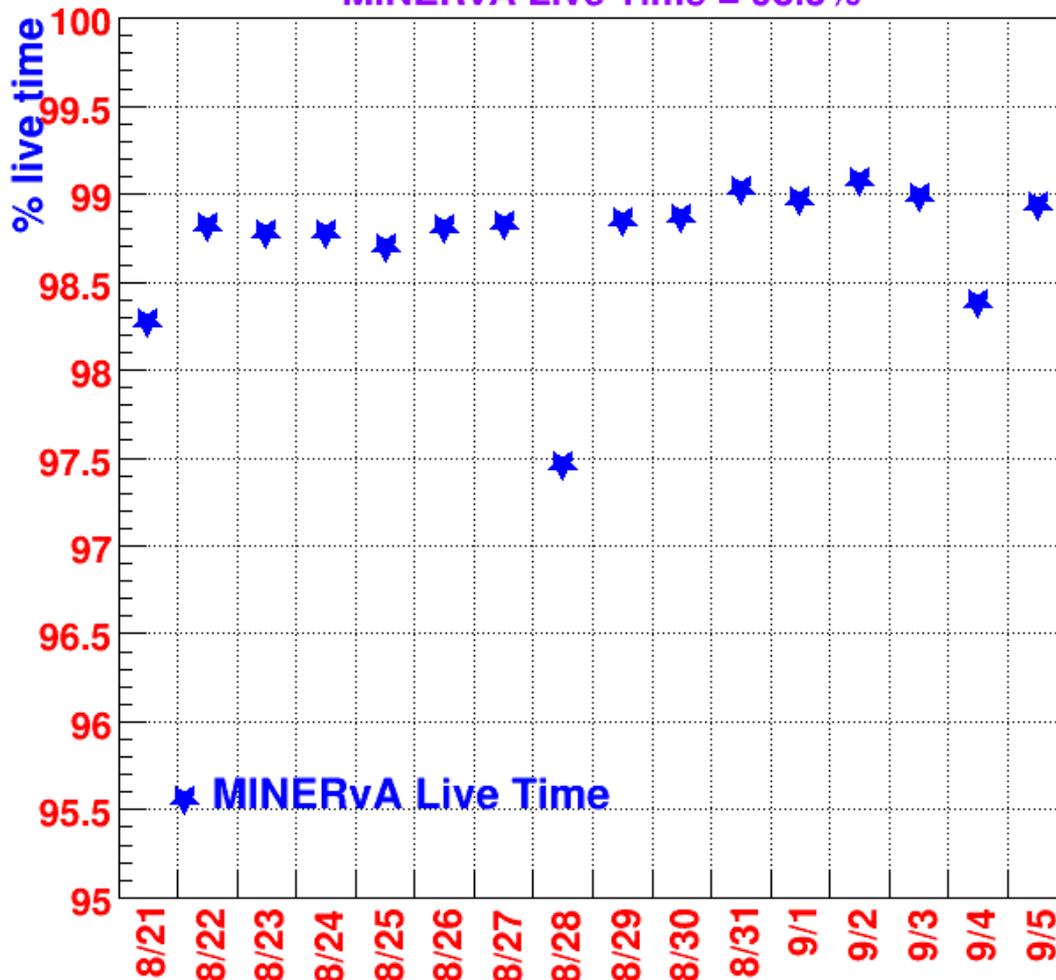


# v Data

## Aug 21-Sep 5 2014



Aug 21 to Sep 5,  $1.57 \times 10^{19}$  POT Delivered  
MINERvA Live Time = 98.5%

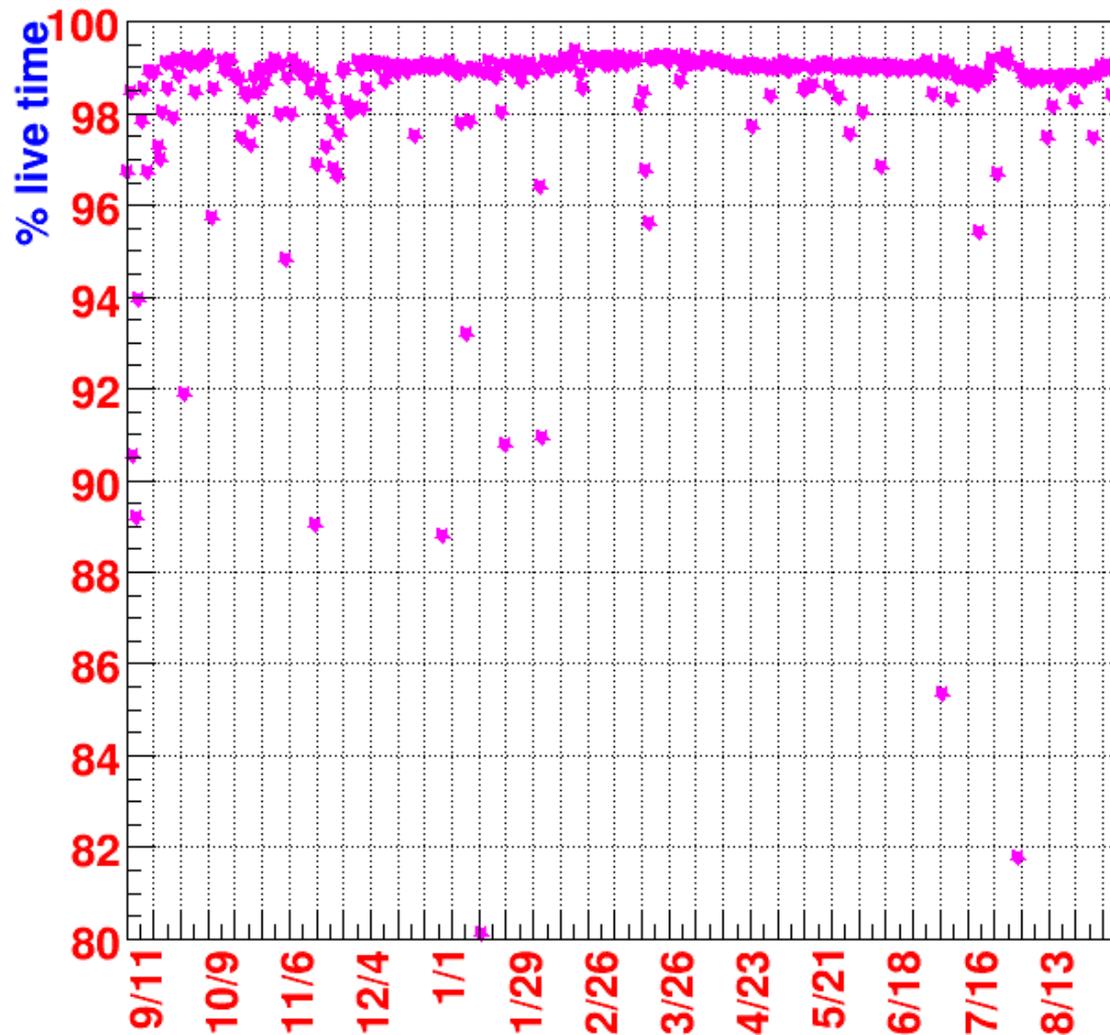


- Live time Aug 21-Sep 5.
- Live time of 98.5%



# v Data

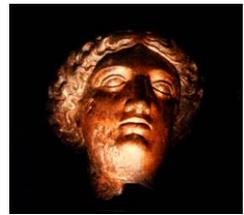
## Sep 6 2013-Sep 5 2014



- Live times from Sep 6 2013 to Sep 5 2014, the entire ME run
  - Plot does not include 1/1/2014, FEB failed
    - 35%
  - Does not include 4/4/2014, FEB failed & the roof had to be removed.
    - 49%
- For this period the MINERvA live time is 97.5%.
  - 18 days with live time < 96%



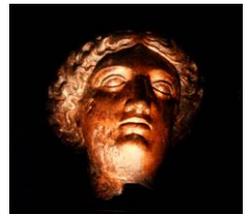
# Shutdown



- During the shutdown we will have a ~ 5 hour day shift, Monday – Friday, to ensure the detector stays operating. Should an element fail we will replace the element.
  - We will be doing the MINOS Near Detector shift checklist.
- At the last AEM talk I presented the tasks we will do during the shutdown.



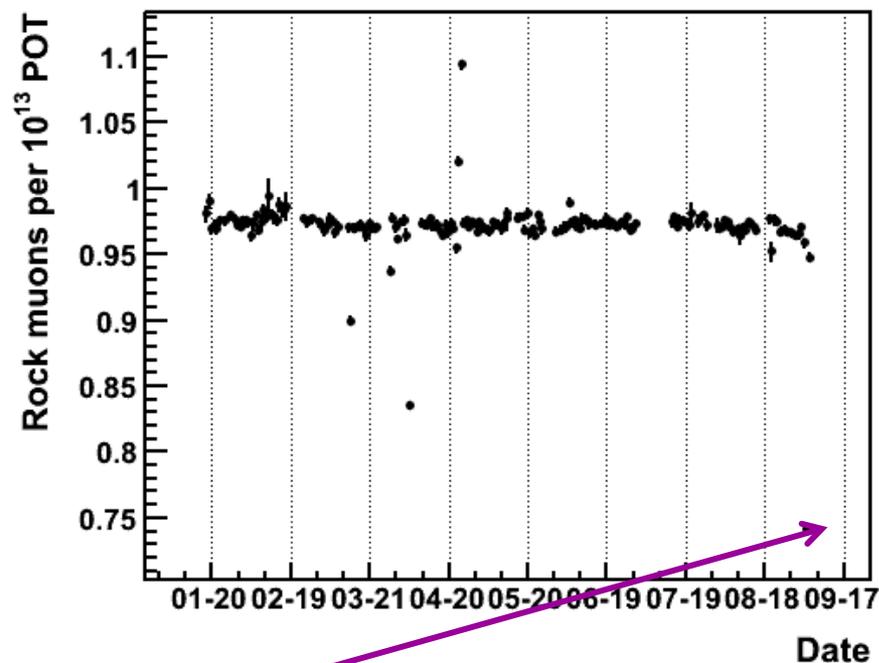
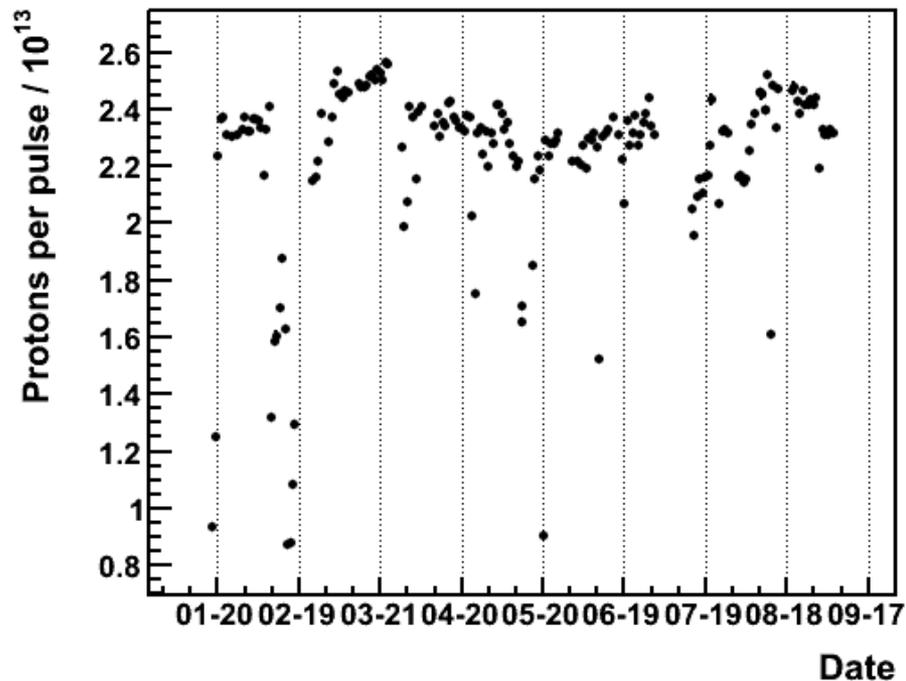
# FEB/PMT Replacement



- On Sep 10, we will swap out components on a PMT whose HV is low and Cockcroft Walton frequency is high.
  - We will first replace the FEB & if this doesn't fix the problem, then we will replace the PMT.
  - This will require removal of only one roof panel out of the 3 panels
  - The FEB & PMT replacement & roof removal will be done by FNAL technicians



# Rock Muons/POT



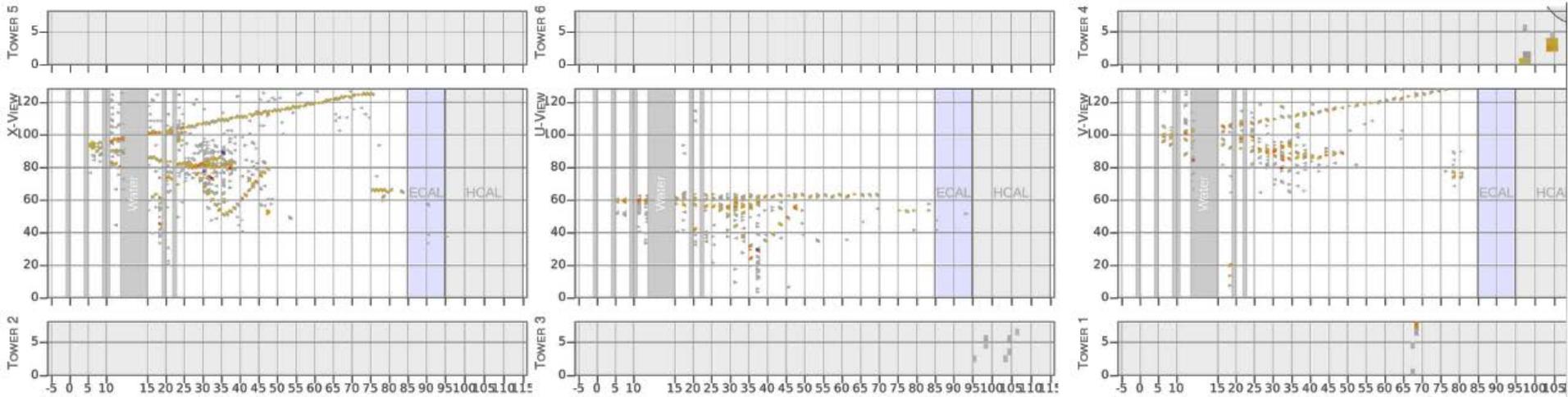
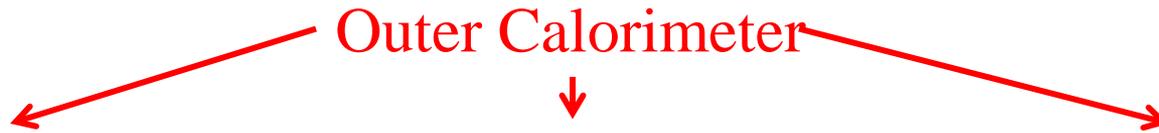
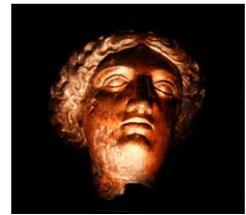
POT/Pulse

Rock Muons/POT

- This point is not calculated correctly as the routine that gets the number of POTs is not updating correctly.



# Event Display



X View

U View

V View

Nuclear Target Event

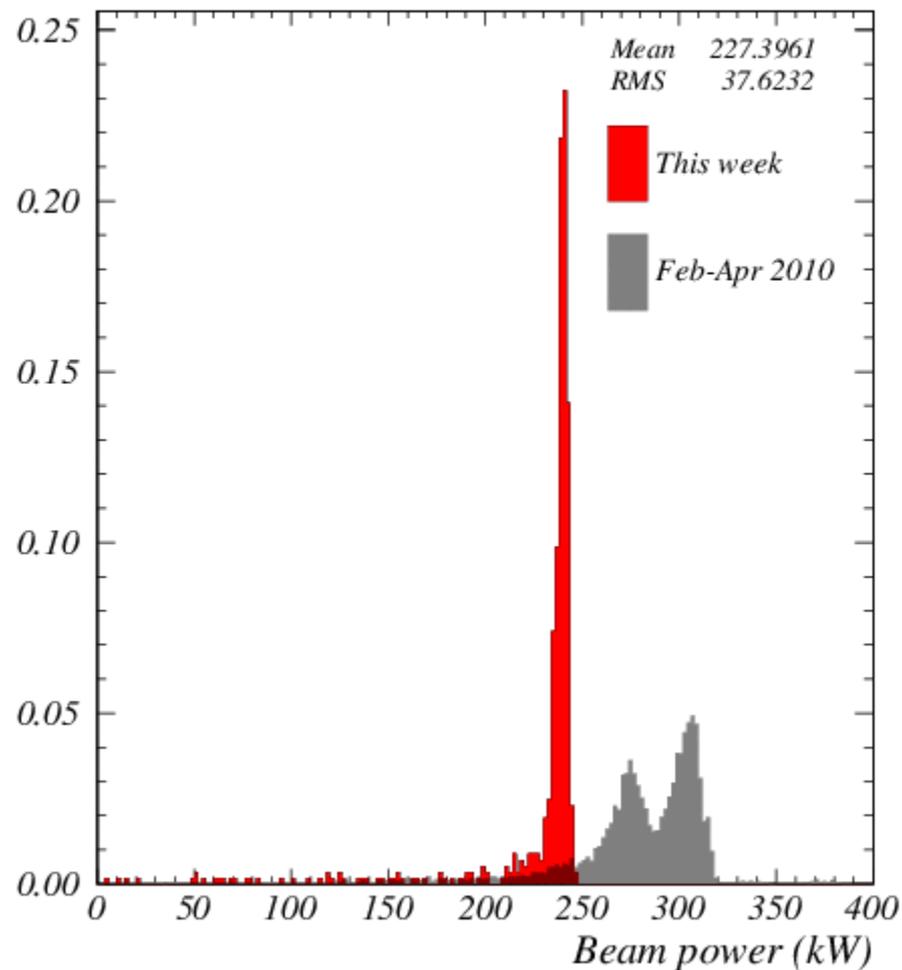
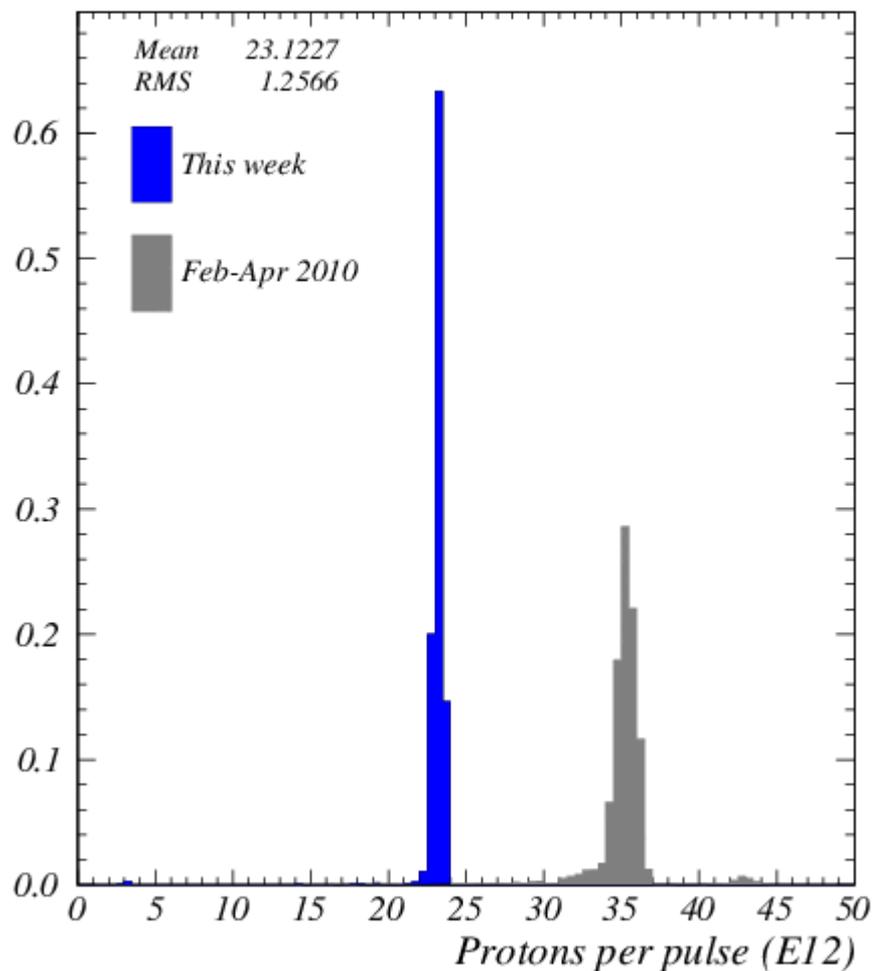


# NuMI Beam Plots



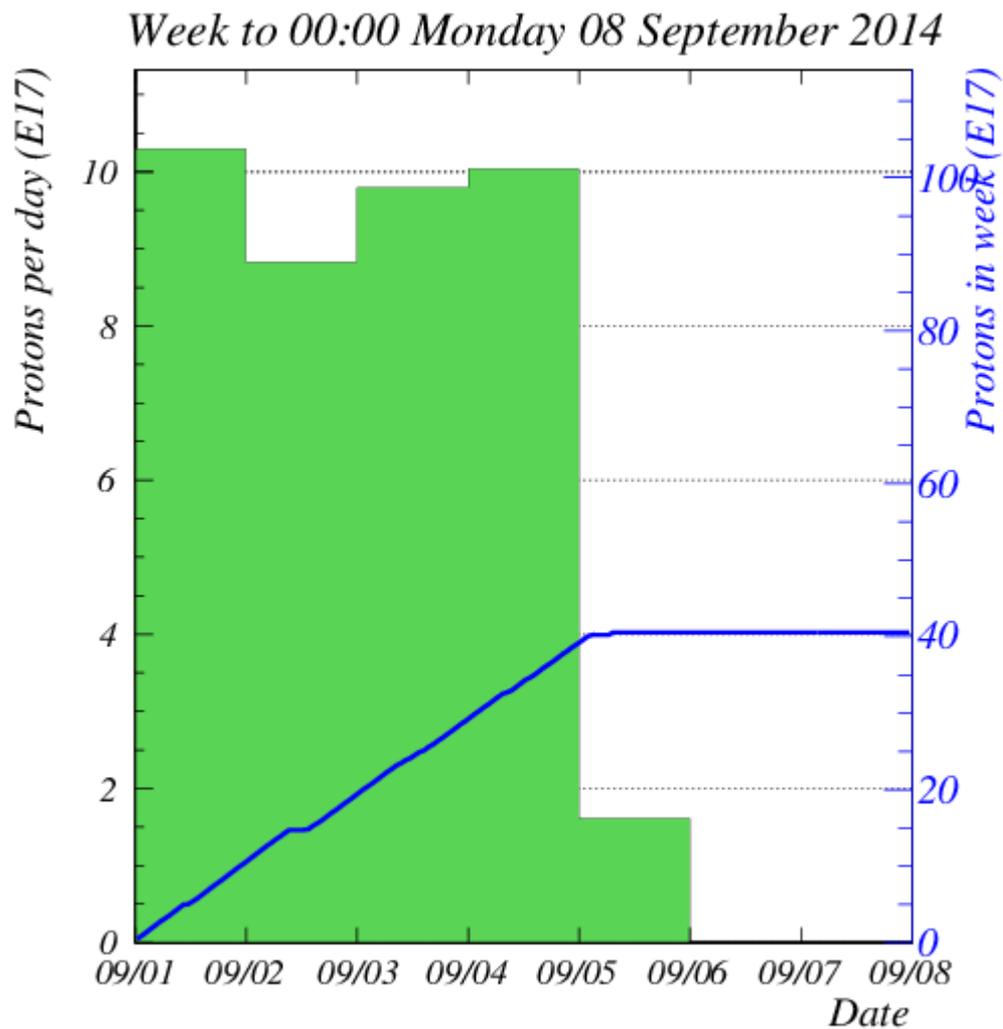
Week ending 00:00 Monday 08 September 2014

Week ending 00:00 Monday 08 September 2014



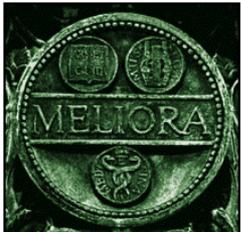


# Protons for the Week



$0.84 \times 10^{19}$  POT  
Aug 25-31, 2014

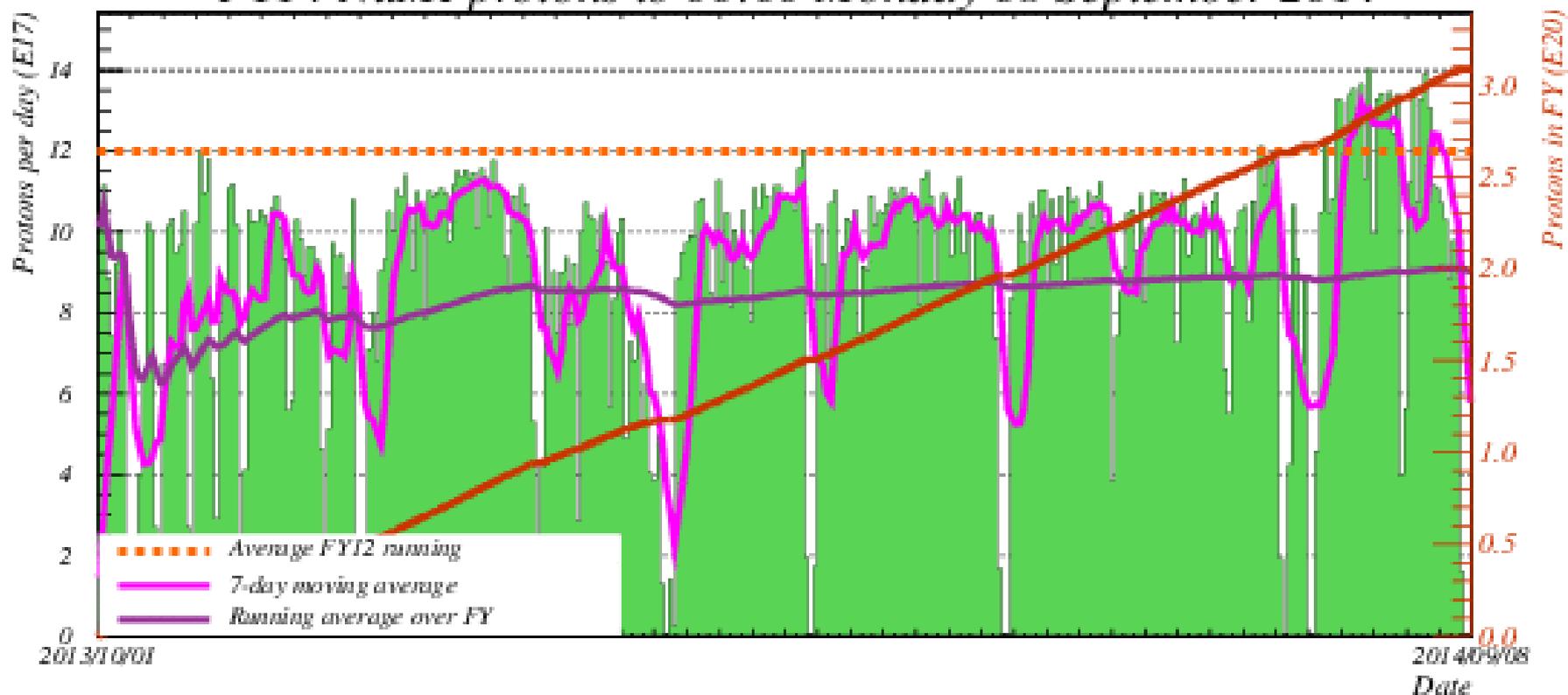
$0.41 \times 10^{19}$  POT  
Sep 1-5, 2014



# FY2014 Protons



*FY14 NuMI protons to 00:00 Monday 08 September 2014*



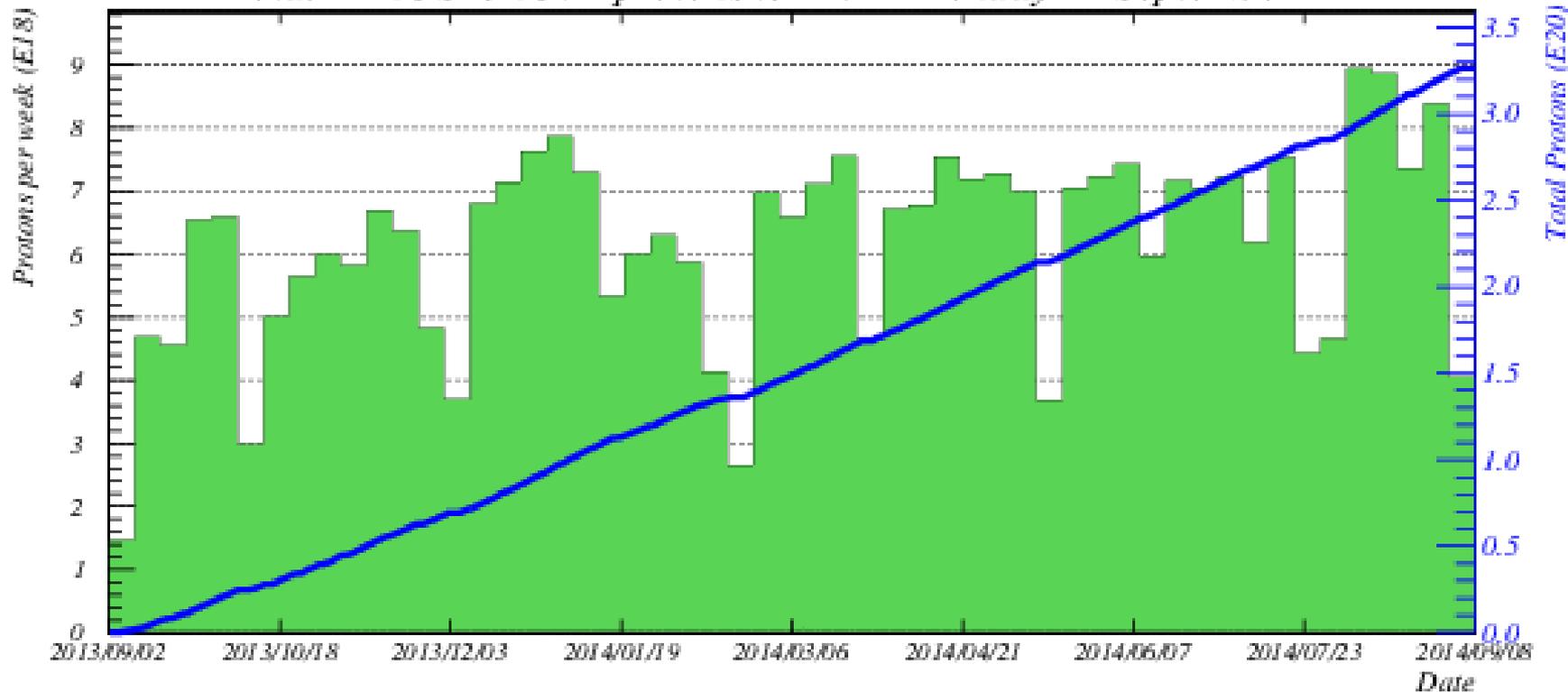
$30.83 \times 10^{19}$  POT  
Oct 1 2013- Sep 5 2014



# Protons for ME Run



*Total MINOS+/NOvA protons to 00:00 Monday 08 September 2014*



**$32.61 \times 10^{19}$  POT**

**Sep 6, 2013 at 15:00 – Sep 5, 2014**

**We thank AD for the successful ME Run to the shutdown**