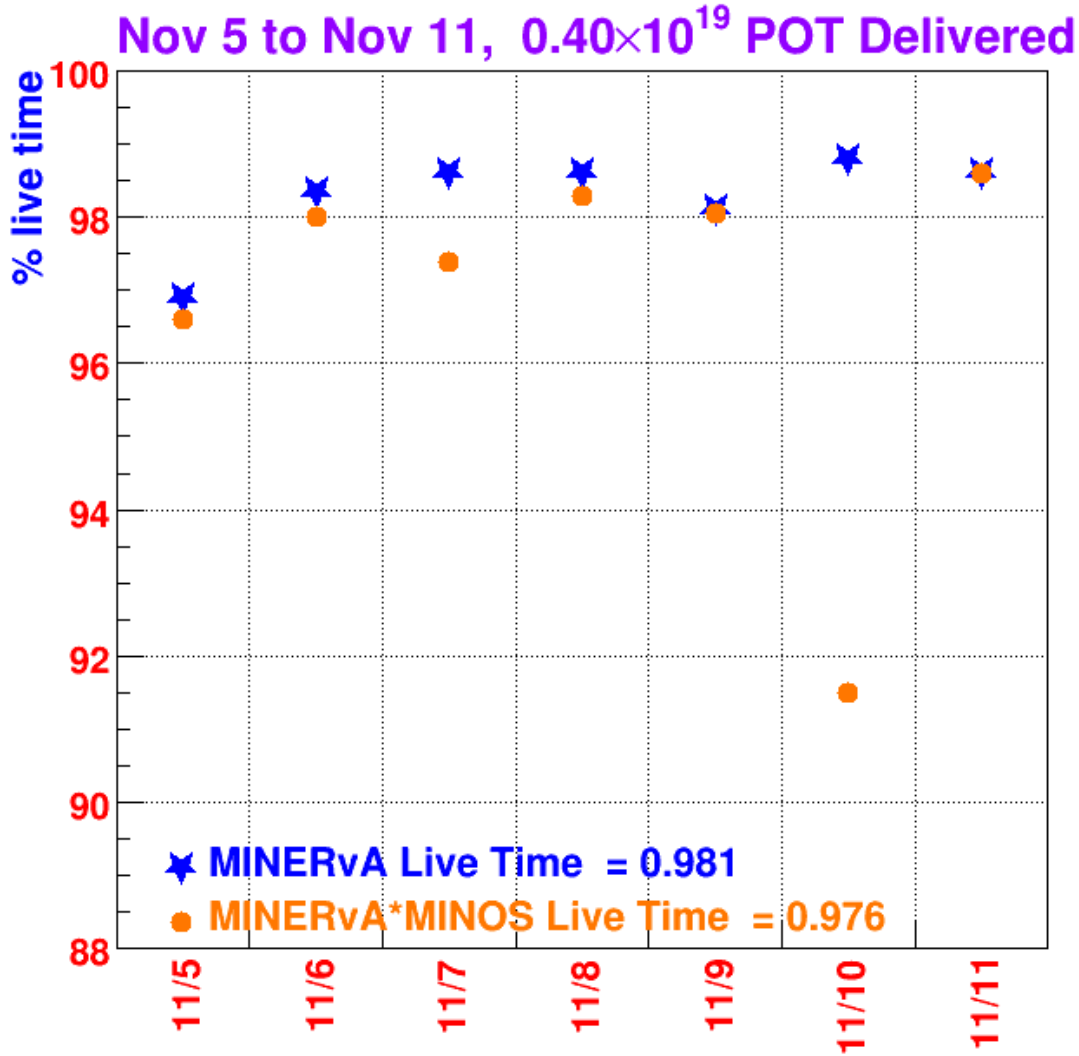
The MINERνA Operations Report
All Experimenters Meeting

Howard Budd, University of Rochester

Nov 16, 2015

ν Data



- Live time, Nov 5-11, 2015
- 0.40×10^{19} POT
- MINERvA 98.1%
- MINERvA*MINOS 97.6%
- Nov 5 – 96.9%
  - Keepup hasn't processed all the data.

FEB/PMT 1-7-1-2 Problem

- One of the online plots was showing a “red” distribution for PMT/FEB 1-7-1-2.
  - 1-7-1-2 means Crate 1, CROC 7, Chain 1, Board 2
  - The problem was traced to the PED file and now it is not red in our online monitoring plots
  - 1-7-1-2 PMT has a hot pixel, but we have not decided whether to replace it. It’s not a light leak.
    - This hot pixel helped us solve some of the unpacking problems as it produced a large number of hits. The v95 FEB firmware upgrade increased the number of hits stored for a channel from 8 to 20.

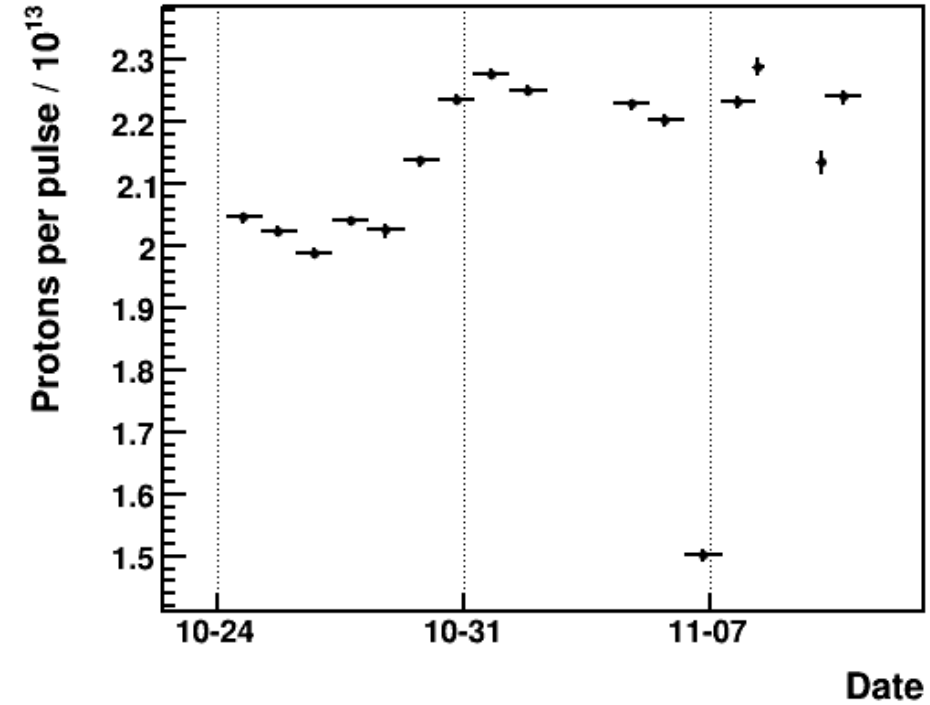
ADC = 0 Problem

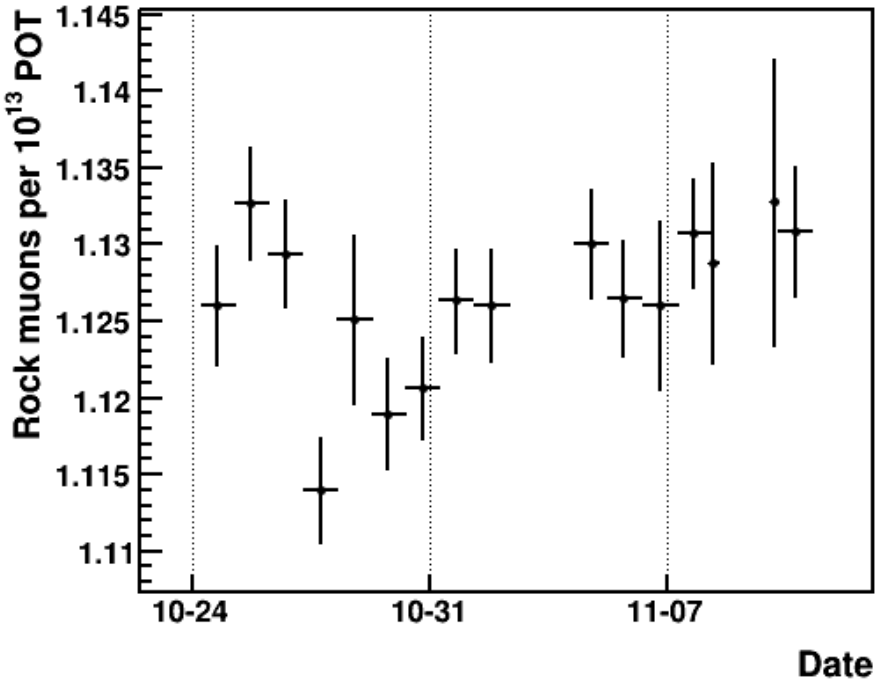
- A problem shows up in the ADC data. The hi, med, and lo gain channels for a pixel are 0 .The nominal PED is 450 ADC counts with a RMS of 8. This happens when there are 10 or more readins for a TriP set during a gate. In addition, we see a dummy readin.
  - A trip set consists of 3 TriP chips which stores the charges for 32 pixels. The charges for all channels in a TriP set are stored when a discriminator fires in that TriP set.
  - New unpacking code fixed this problem for 14 CROC out of the 15 CROCs.
  - The problem with this one CROC looks like this is an unpacking problem too. We should know soon if it is an unpacking problem.
  - Thanks to Donatella Torrella

Nov 9-10 Shutdown

- We replaced the network switch in the MINERvA DAQ rack and MINERvA hot spares rack.
  - The network switches were ~ 6 years old
  - Thanks to Geoff Savage & Networking

Rock Muons/POT

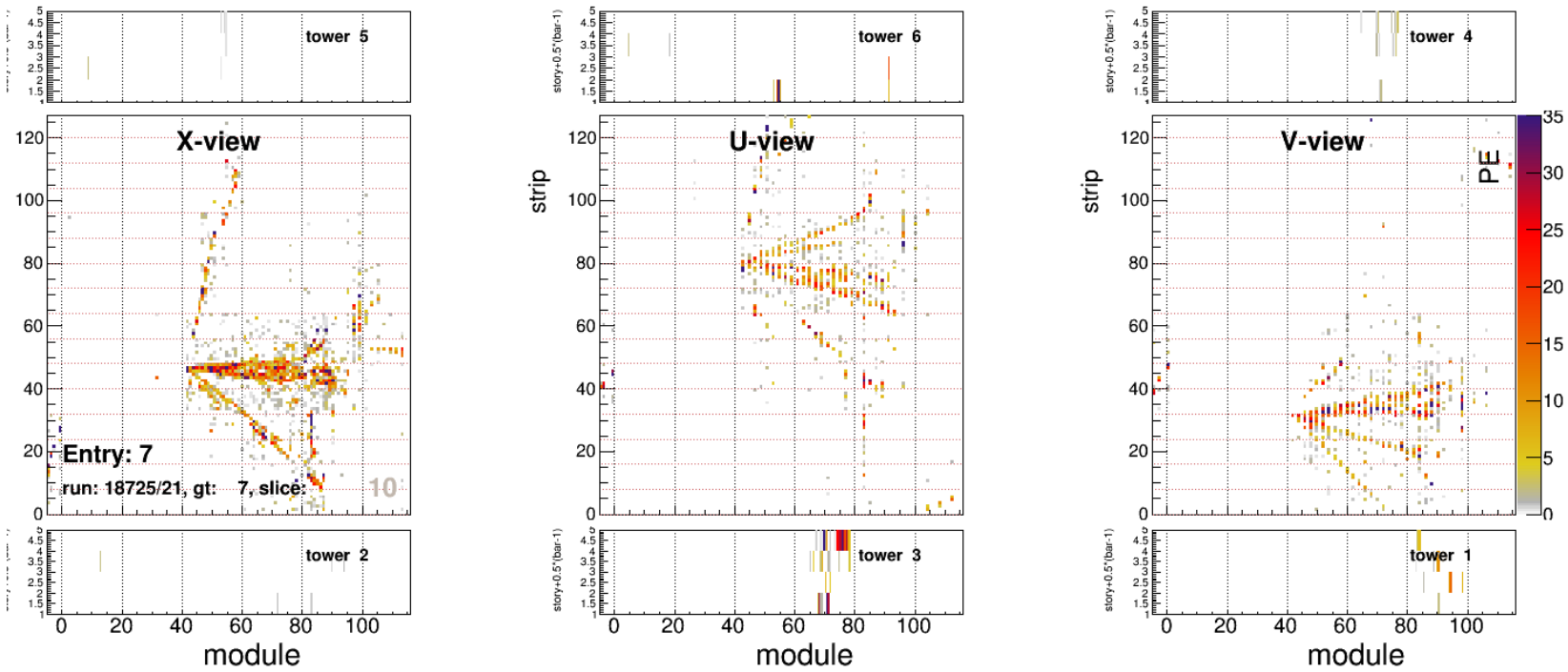




POT/Pulse

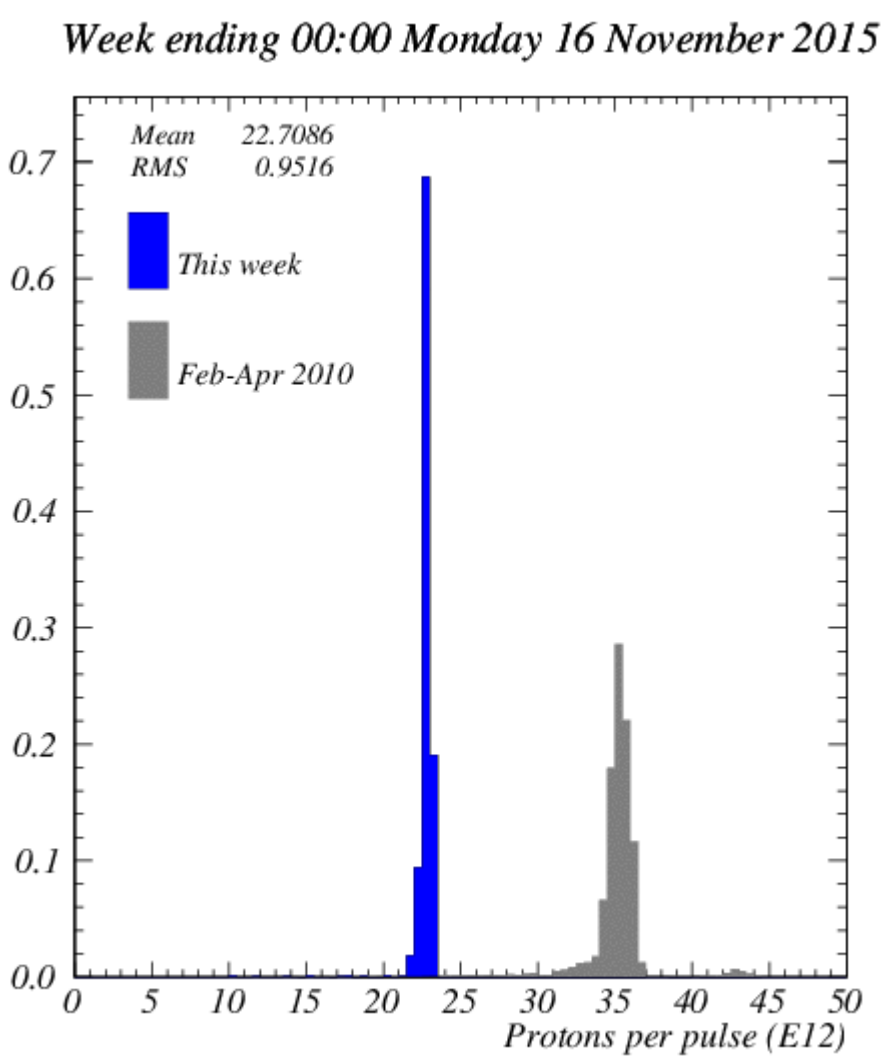
Rock Muons/POT

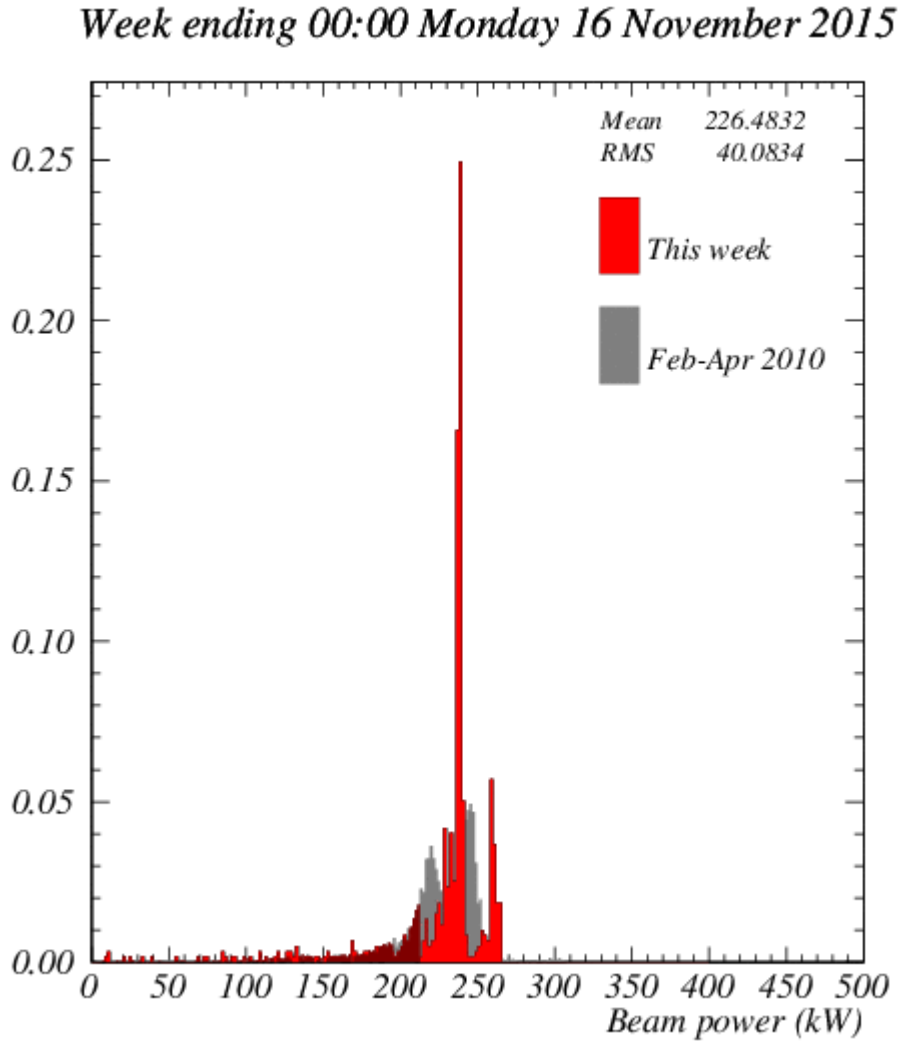
Event Display



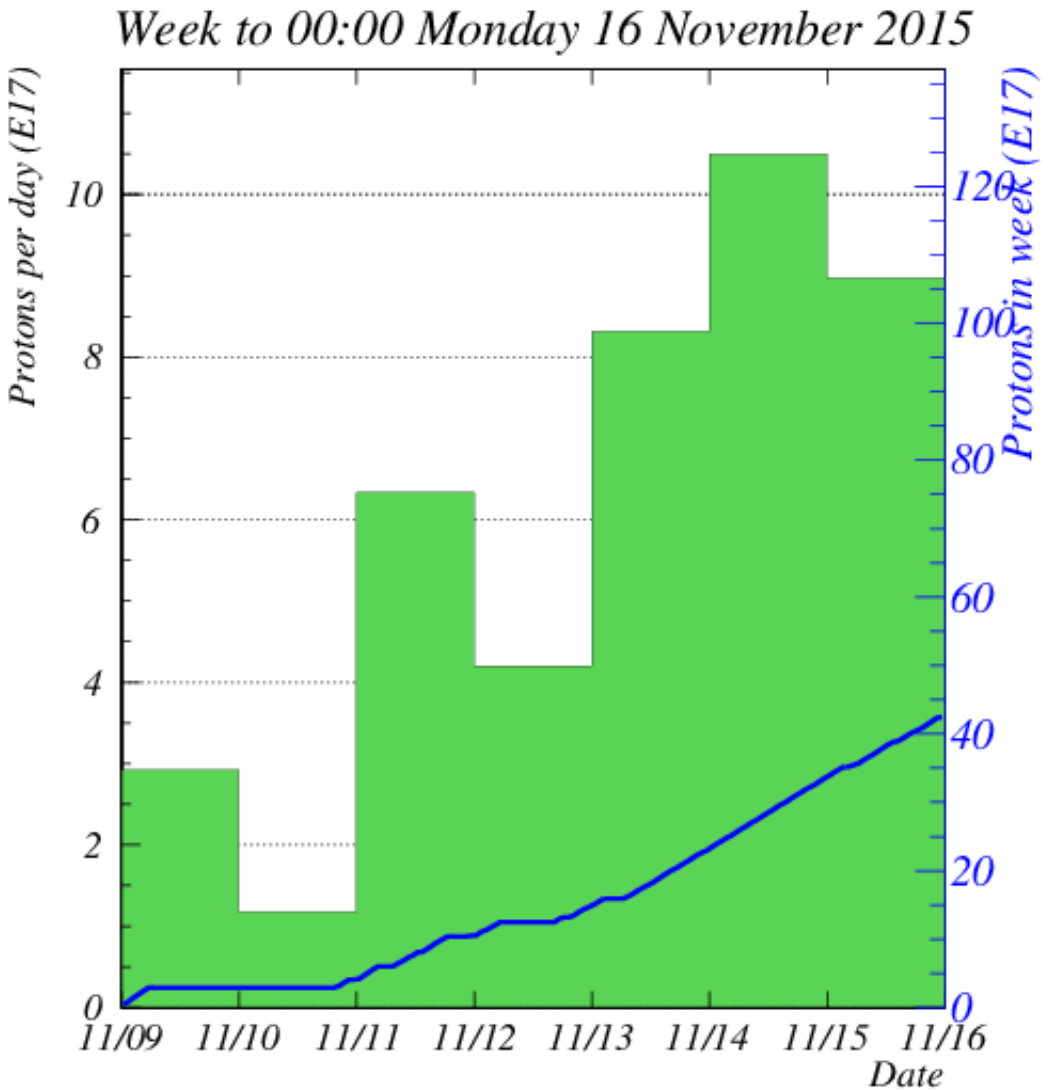
Tracker Event

NuMI Beam Plots
Nov 9-15, 2015



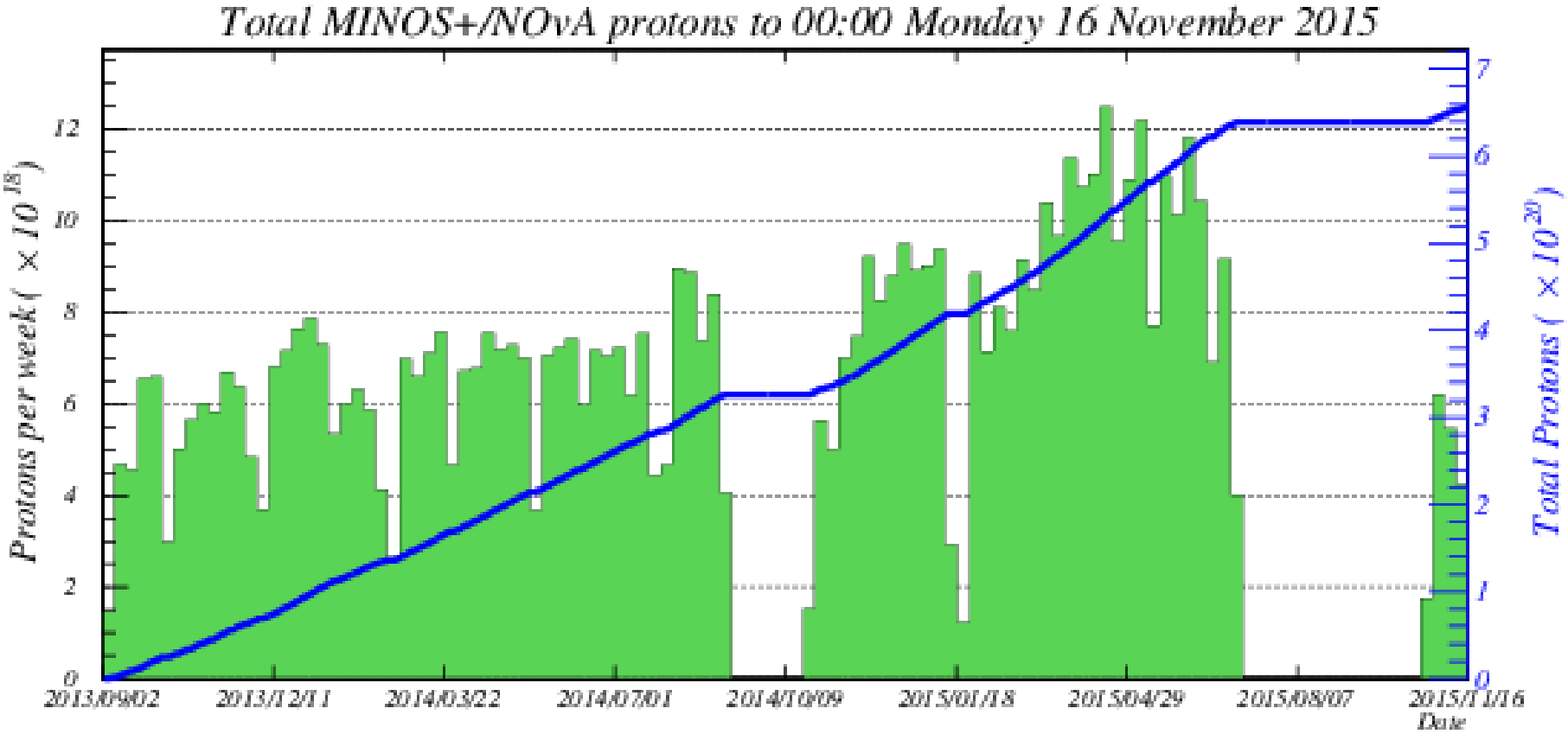


Protons for the Week



0.42×10^{19} POT
Nov 9-15, 2015

Protons for ME Run



65.77 ×10^{19} POT - Sep 6, 2013 – Nov 15, 2015