

The MINERvA Operations Report

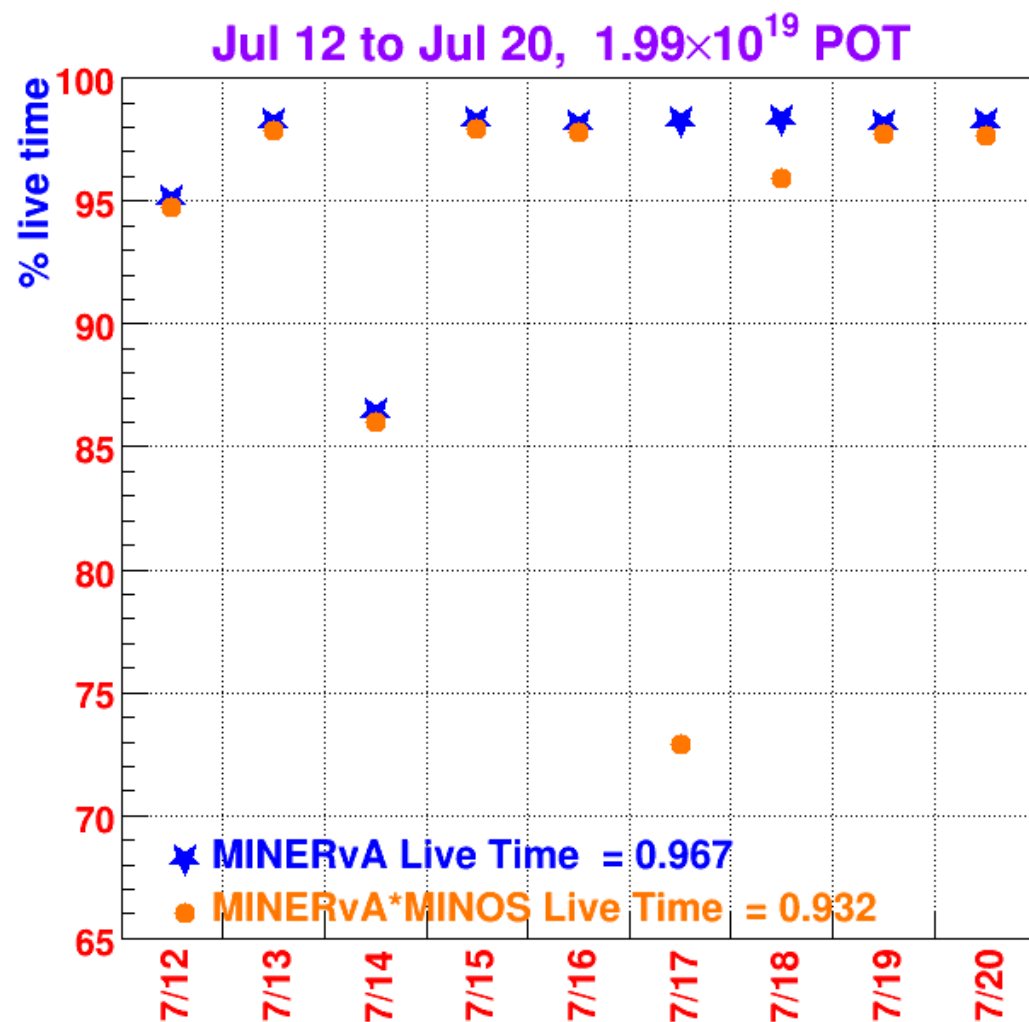
All Experimenters Meeting

Howard Budd, University of Rochester

Jul 25, 2016



v Data



- Live Time – Jul 12-20
- 1.99×10^{19} POT
- MINERvA 96.7%
- MINERvA*MINOS 93.2%



v Data



- July 12 – Minerva live 95.0%
 - MINERvA DAQ stopped taking data, but we don't know why. There was no DAQ error. Runcontrol was restarted
- July 14 – Minerva live 86.4%
 - One of the chains had a hardware error. We were able to clear the error. This problem does not explain why the efficiency is this low.
- July 17 - MINOS live 74.2%
 - The AC plug for one of the modules in the MINOS HV crate fell out. Not clear how this happened, but this will be investigated during the shutdown.



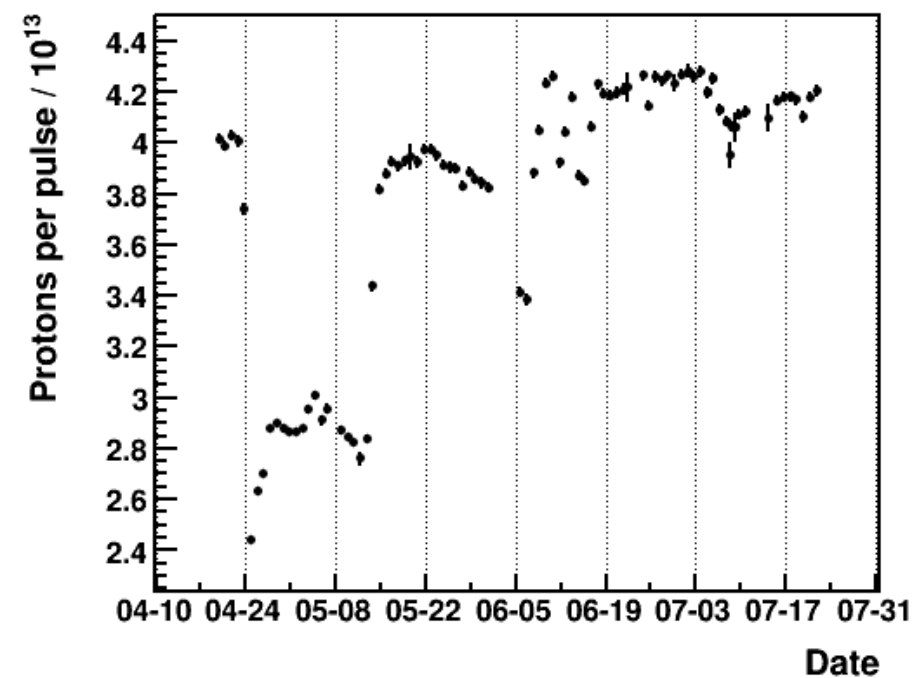
v Data



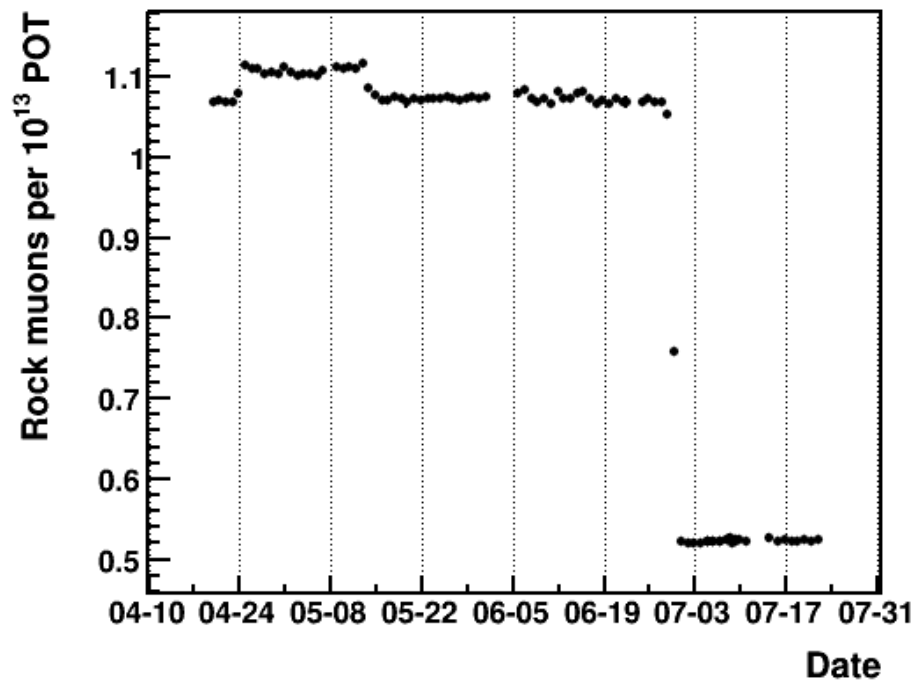
- Some of the lower MINOS efficiencies in the last couple months may have been due to a noisy channel rather than LI (light injection). As far as we know a noisy channel has never reduced the MINOS live time, so this is puzzling. The MINDER board with the noisy channel was replaced during the Jun 29 shutdown. After turning off the LI on Jun 29, we have turned the LI back on July 21 to see if LI causes a data problems. The MINOS data has been fine since then, and we are leaving the LI on. We suspect the bad MINOS data was due to this noisy channel.



Rock Muons/POT



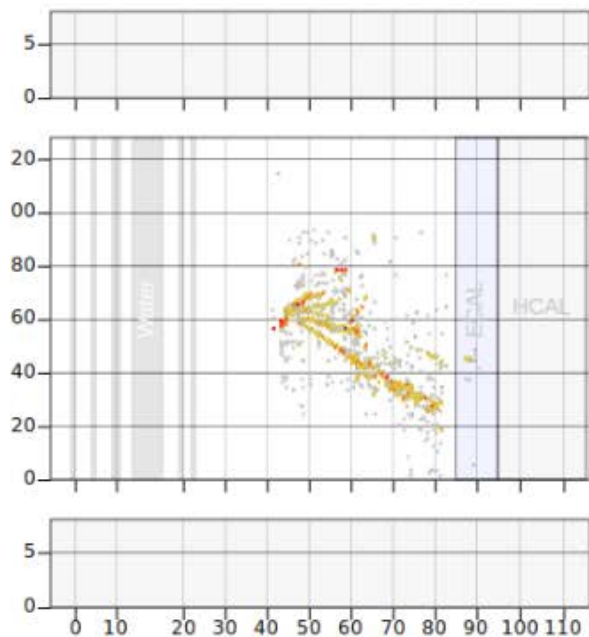
POT/Pulse



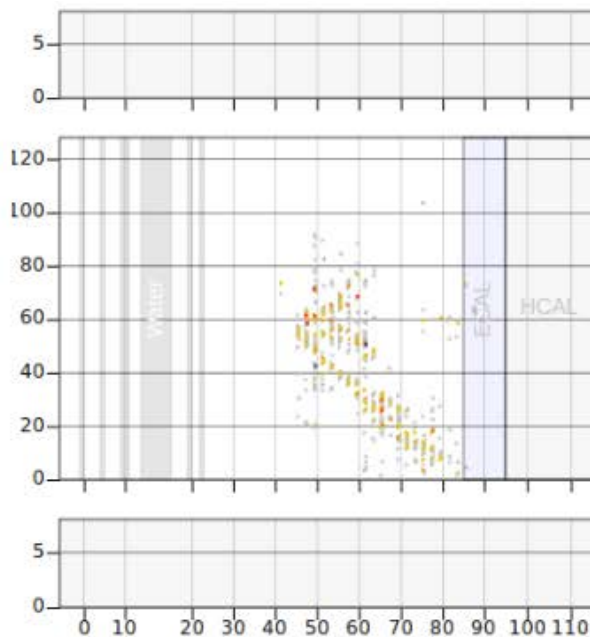
Rock Muons/POT



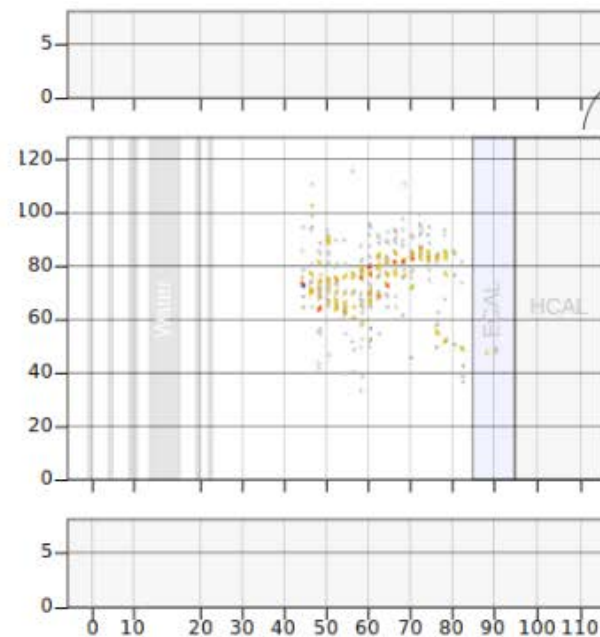
Event Display



X View



V View

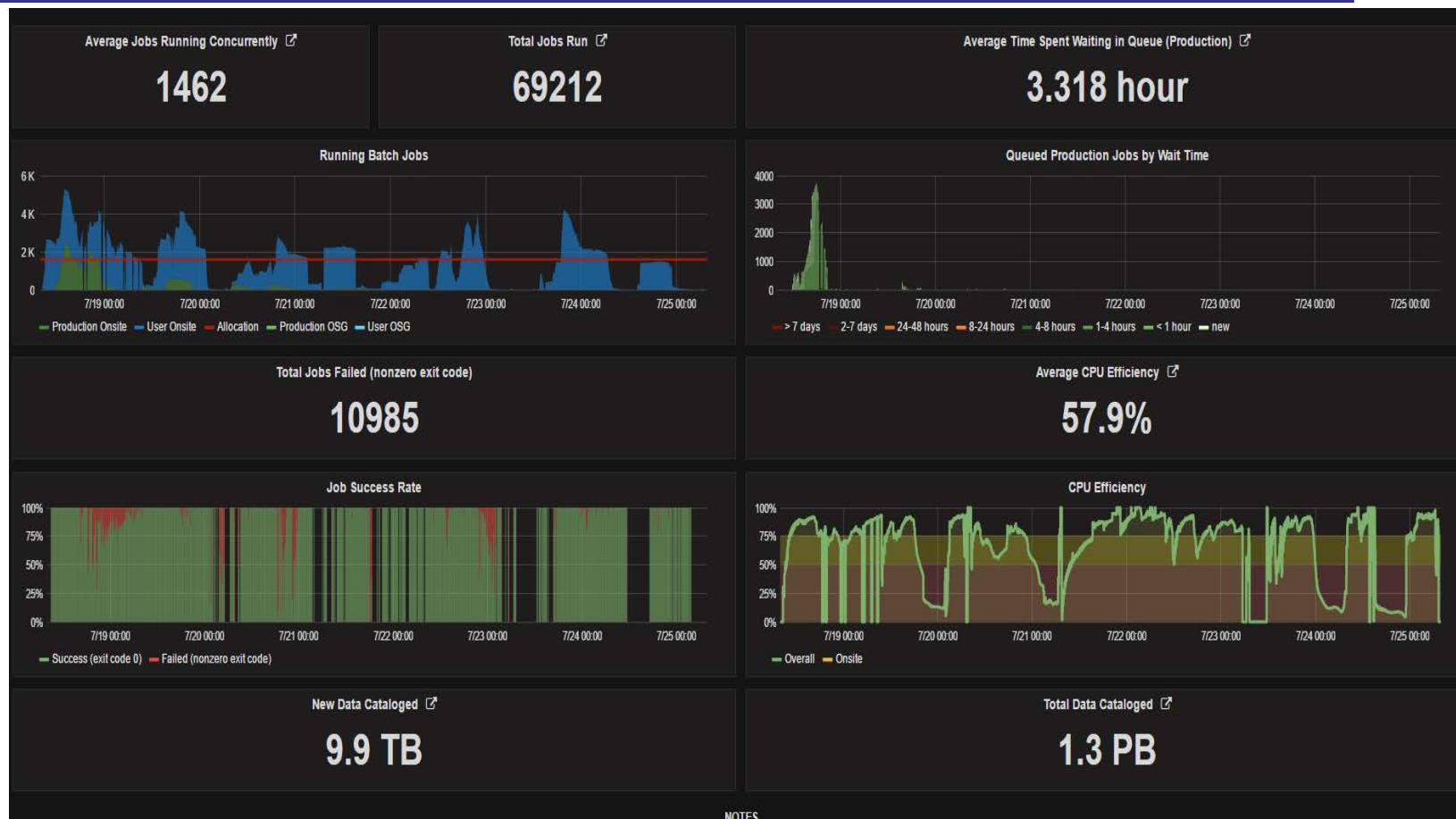


U View

Tracker NC Event



Computing



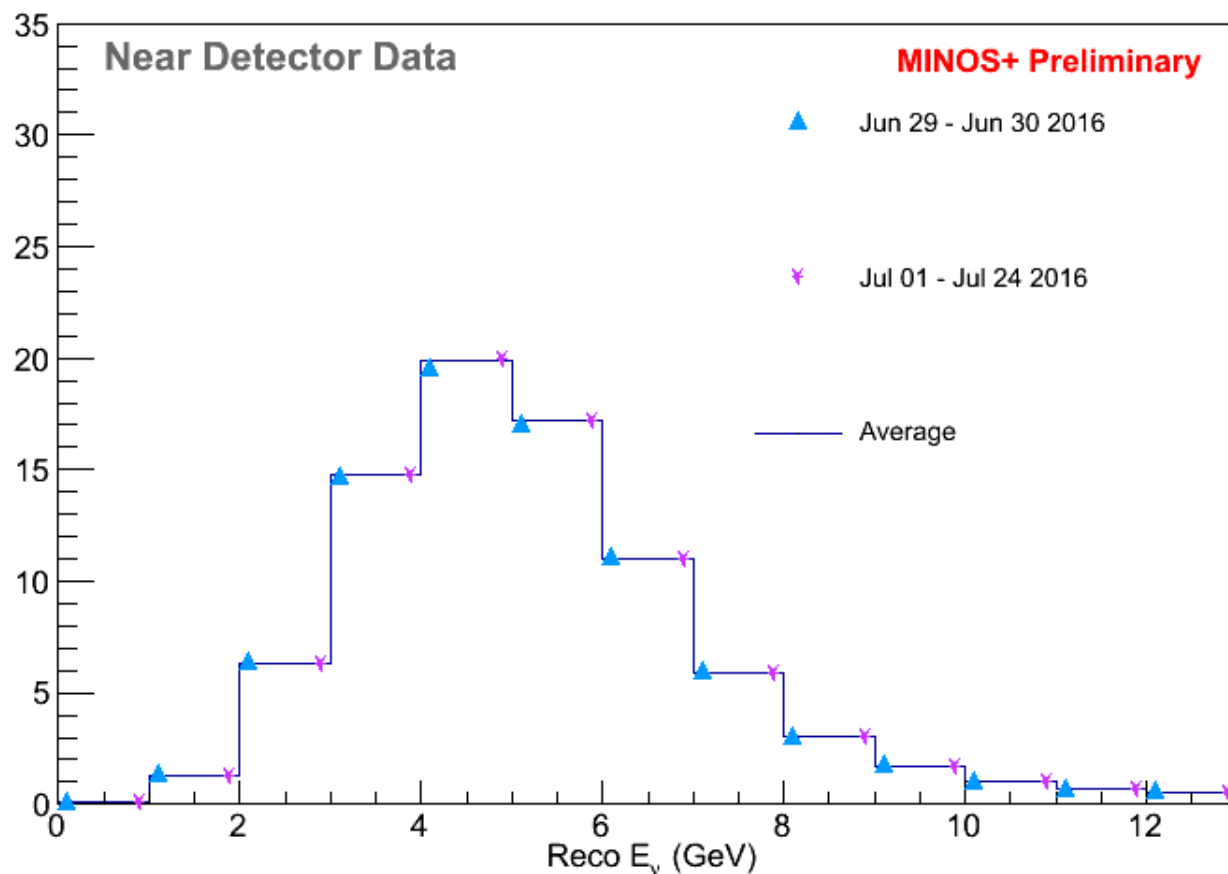
- Inefficiency dominated by a single user set of jobs. Jobs access shared resource which seem to not be able to handle the load. Investigating



Spectrum Stability



Neutrino Energy Spectrum Stability (PQ and NQ)



- <http://minos.fnal.gov/DataQuality/> Pre-Selected, Energy Spectrum

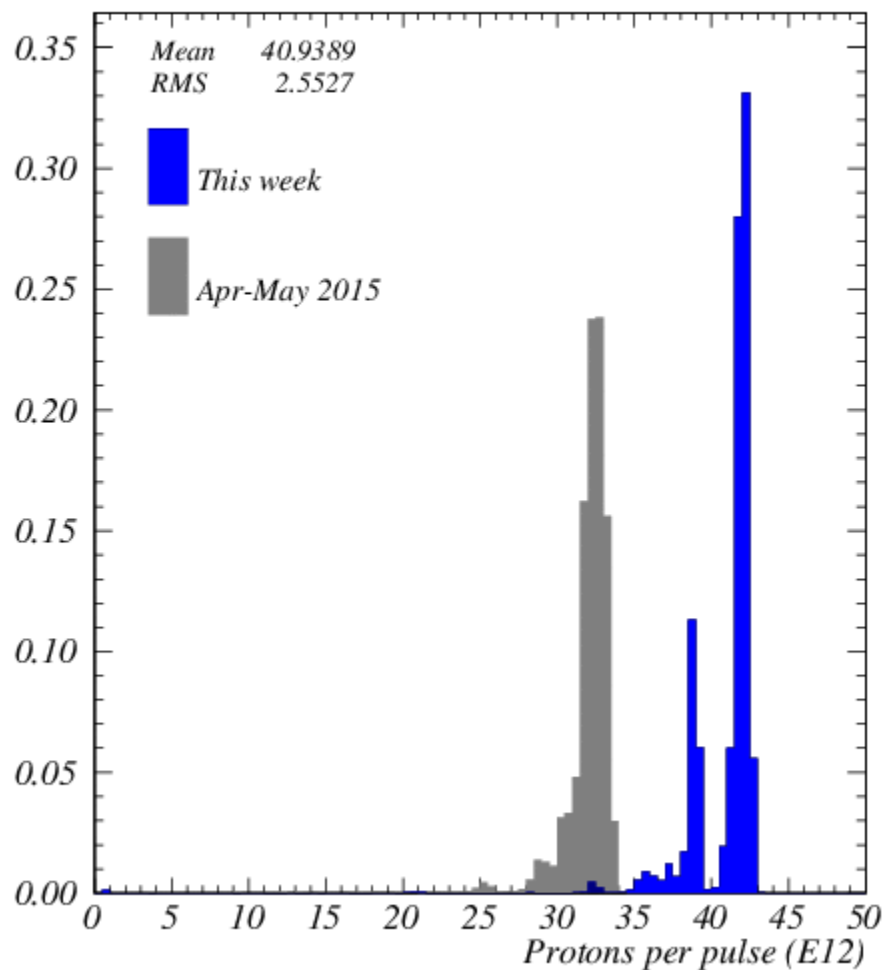


NuMI Beam Plots

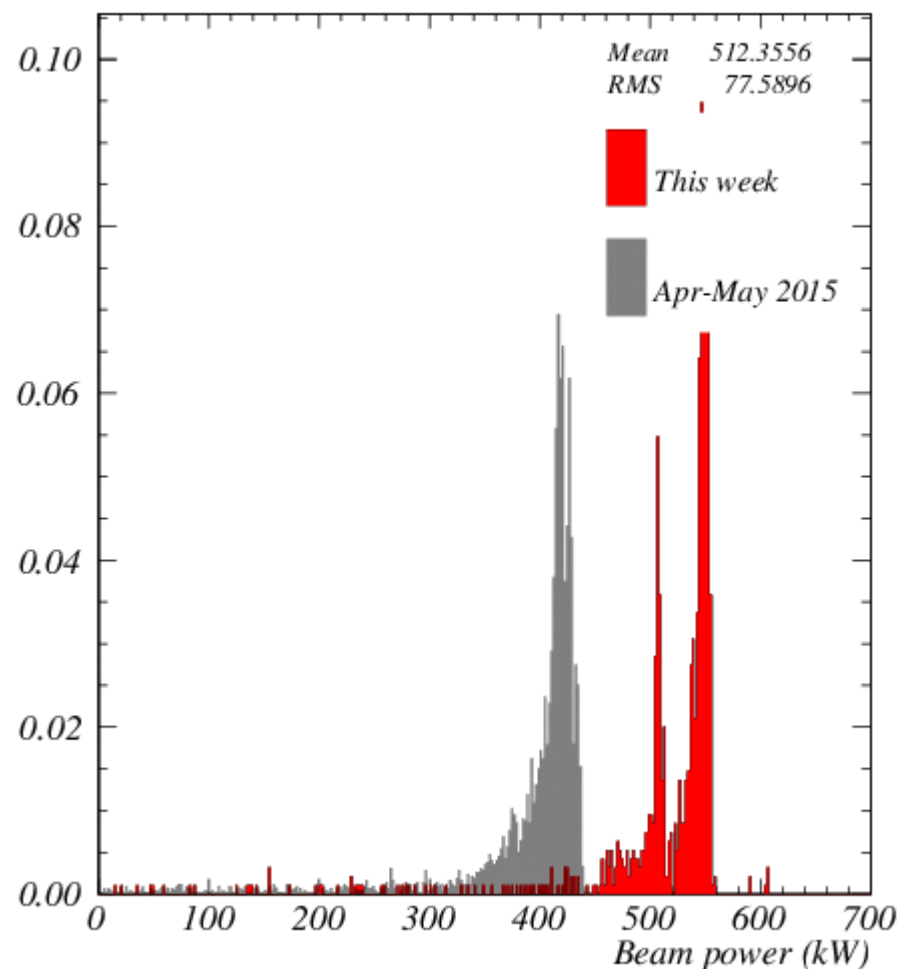
Jun 20 - 26, 2016



Week ending 00:00 Monday 25 July 2016

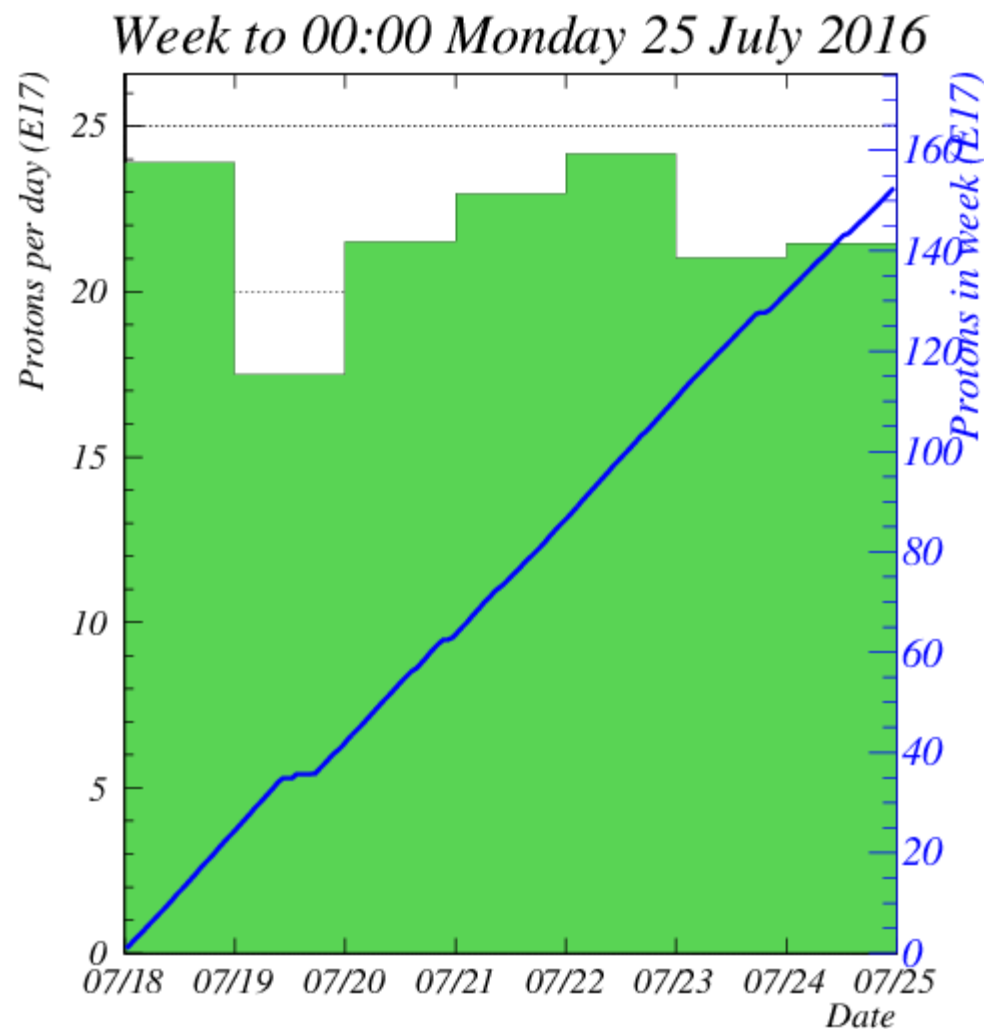


Week ending 00:00 Monday 25 July 2016





Protons for the Week



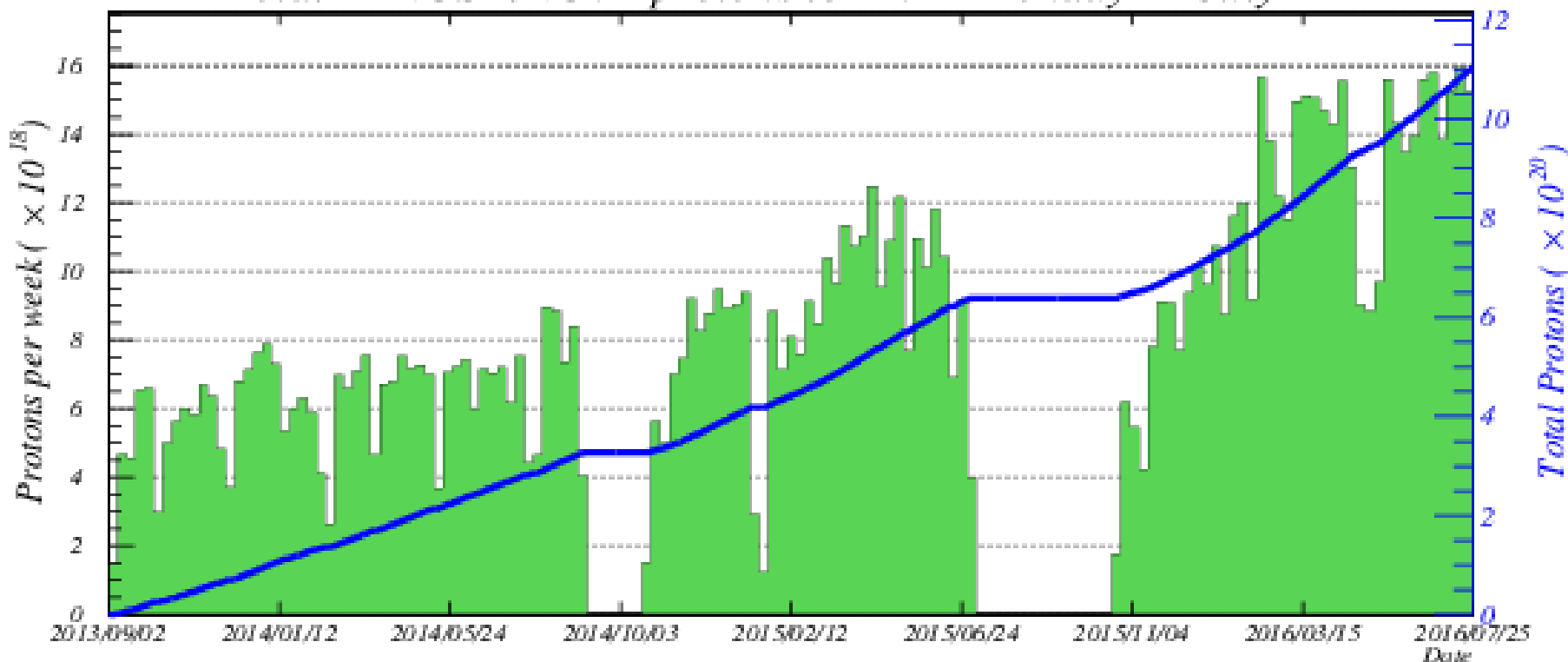
1.53×10^{19} POT
Jul 18-24, 2016



Protons for ME Run



Total MINOS+NOvA protons to 00:00 Monday 25 July 2016



FHC 10.48×10^{20} POT - Sep 6, 2013 – Jun 29, 2016

RHC 0.55×10^{20} POT – Jun 29, 2016 – Jul 24, 2016