

The MINERvA Operations Report

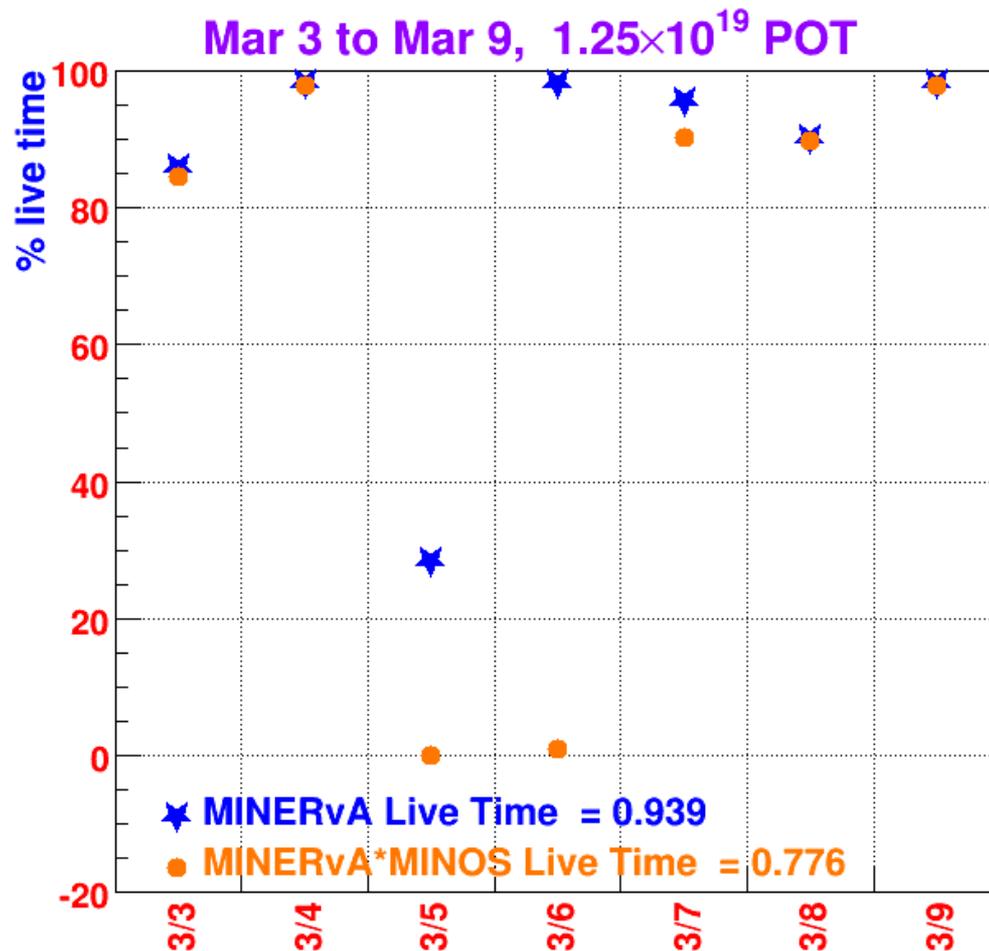
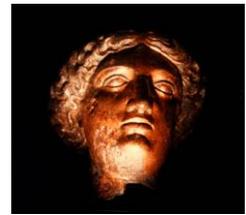
All Experimenters Meeting

Howard Budd, University of Rochester

Mar 14, 2016



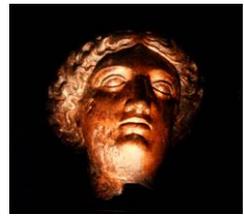
ν Data



- Live Time – Mar 3-9, 2016
- 1.25×10^{19} POT
- MINERvA 93.9%
- MINERvA*MINOS 77.6%



v Data



- Mar 3 – 85.8% - watchdog failure
 - On Mar 3 at ~ 3AM a DAQ errors stopped the DAQ.
 - We had no owl shifter. The shifter came in at 6 AM to start the run.
 - But if the DAQ stops the “watchdog” pages us
 - If there is an A9, the watchdog looks to see if the file “last_trigger.dat” is updated. If not, it pages us.
 - We believed that file “last_trigger.dat” always exists, but it turns out it is deleted between runs.
 - The watchdog looked for last_trigger.dat, didn’t find it and went to sleep.
 - We had been using the watchdog since beginning of Nov 2015 and hadn’t seen this failure. Part of the reason is the DAQ ran so well from the end of the shutdown to the Jan power outage.



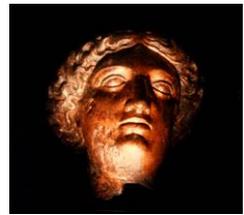
ν Data



- Mar 5 – 28.2%
 - We spent the morning recovering from the power outage and started running the DAQ ~ 10:30 AM. We had to do reset chains which gave errors.
 - We were not taking data when beam started even though we had started a beam run. It looked like we were not getting beam triggers.
 - We made an access to the MINOS Hall and verified that we were not getting beam triggers. We phoned up MCR who then downloaded the incorrect file.
 - Phil Adamson was at MCR and the correct file was downloaded and we started taking neutrino data.



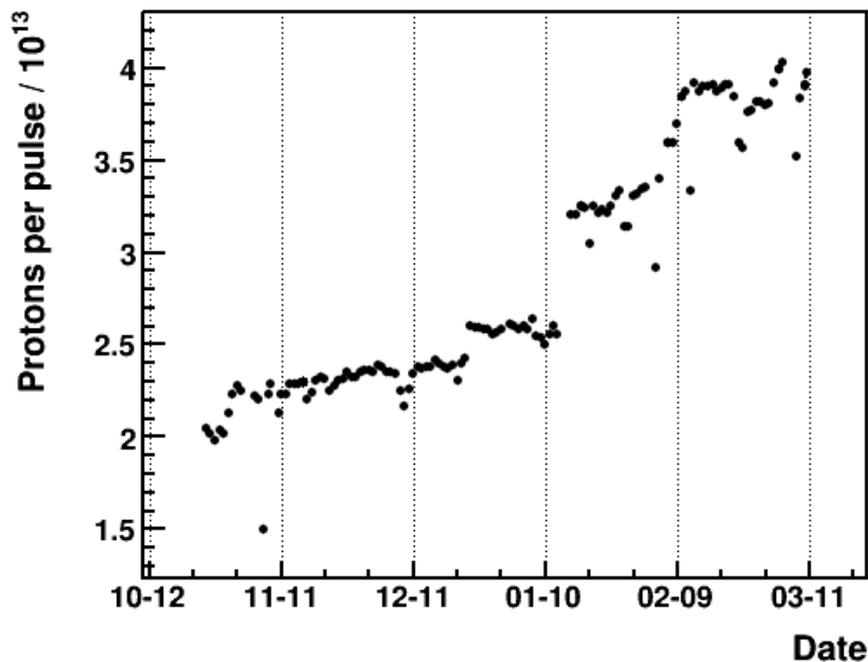
v Data



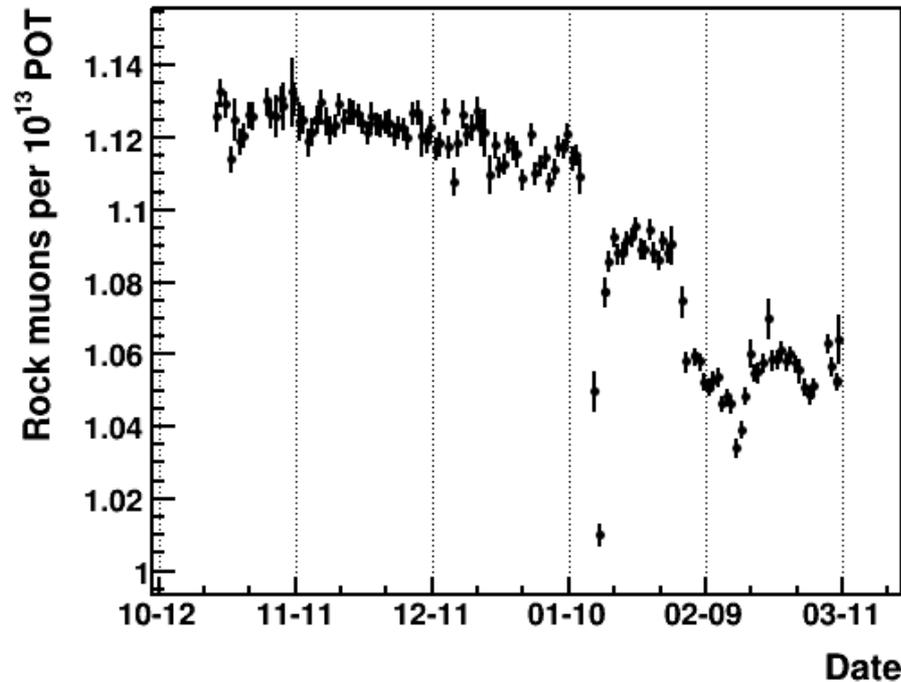
- Mar 7 – 95.5% live
 - Reset chains which give errors.
- Mar 8 – 90.2% live
 - Reset chains which give errors.
 - Also there appears to be some unprocessed files.



Rock Muons/POT



POT/Pulse



Rock Muons/POT

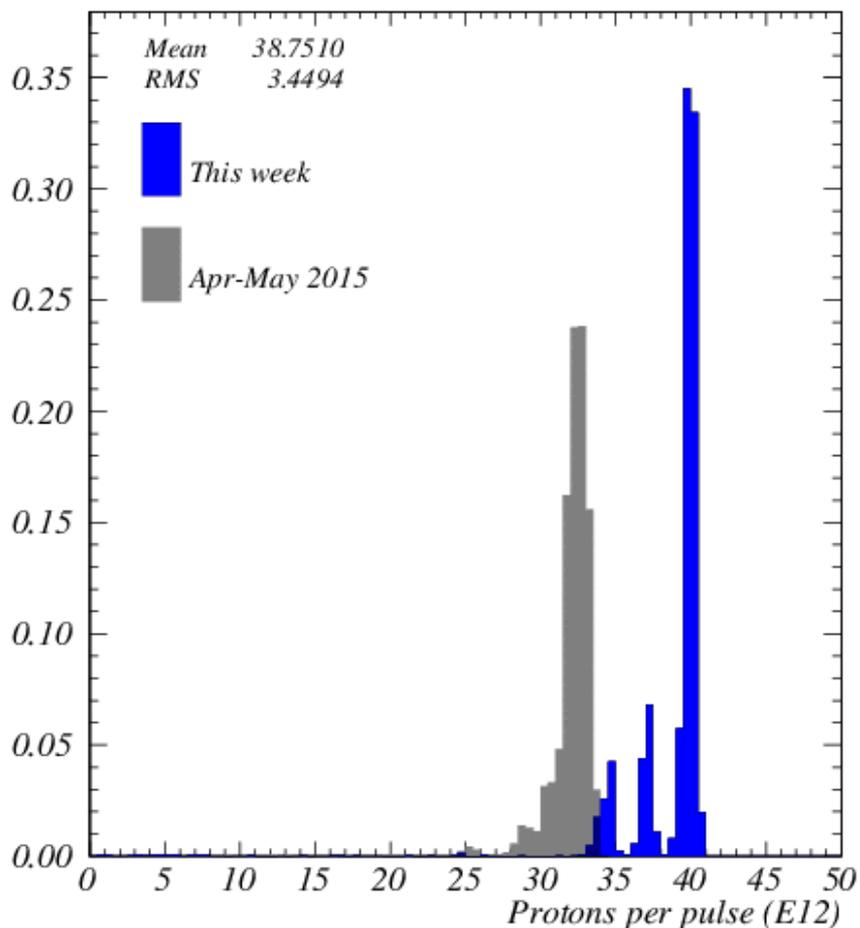


NuMI Beam Plots

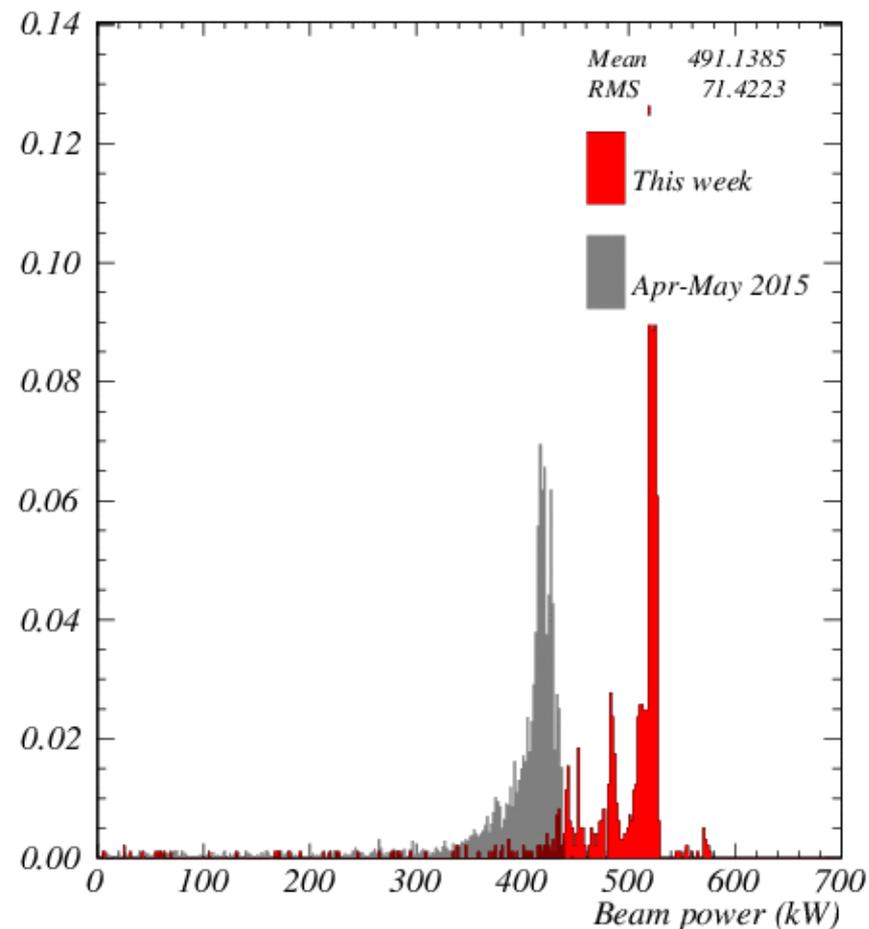
Mar 7-13, 2016



Week ending 00:00 Monday 14 March 2016

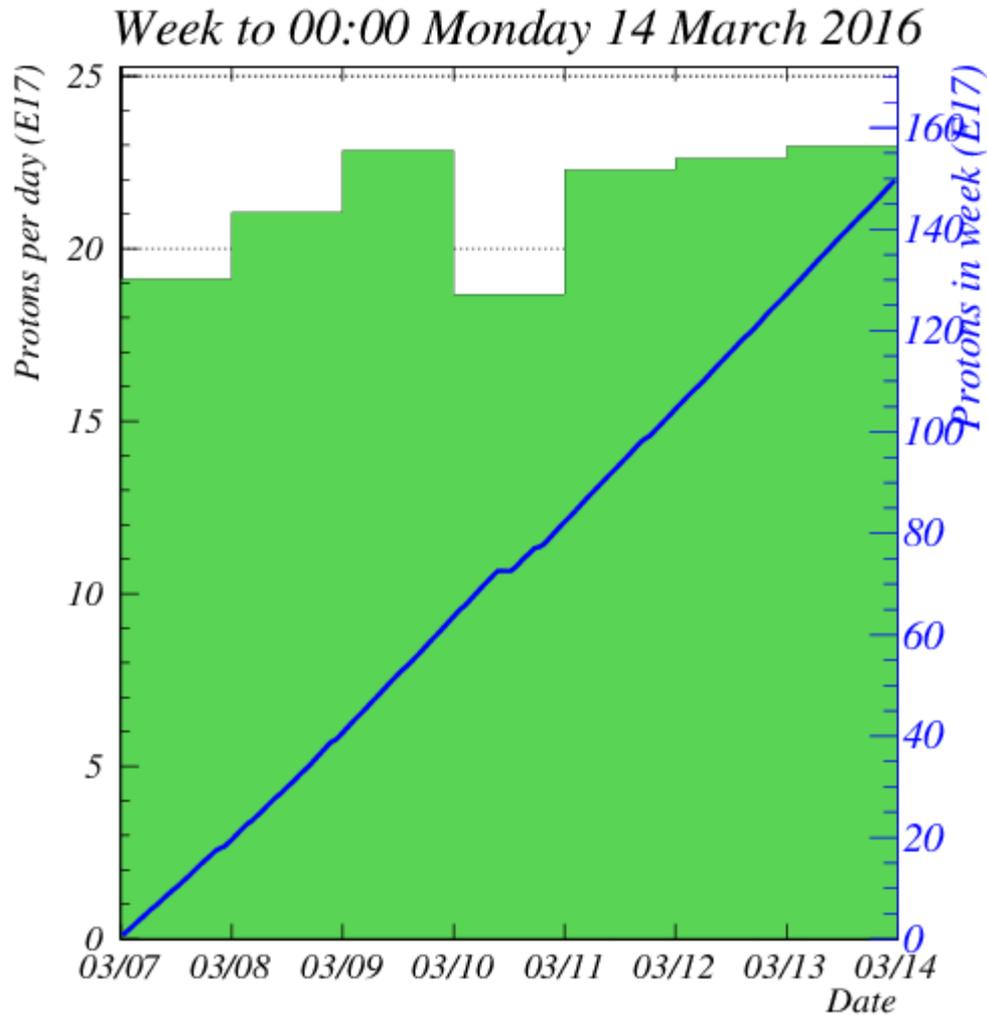
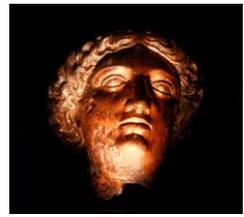


Week ending 00:00 Monday 14 March 2016





Protons for the Week



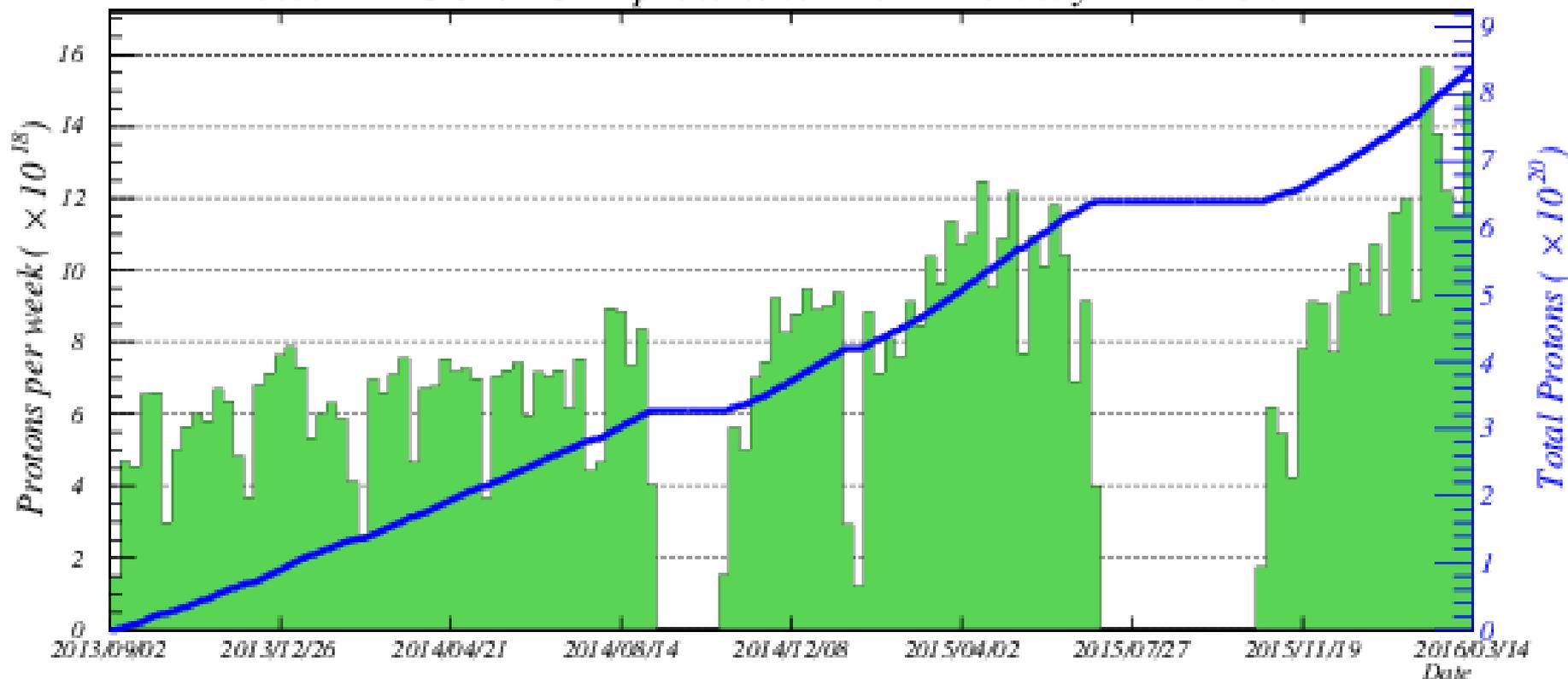
1.50×10^{19} POT
Mar 7-13, 2016



Protons for ME Run



Total MINOS+NOvA protons to 00:00 Monday 14 March 2016



83.95 $\times 10^{19}$ POT - Sep 6, 2013 – Mar 13, 2016