The MINERνA Operations Report
All Experimenters Meeting

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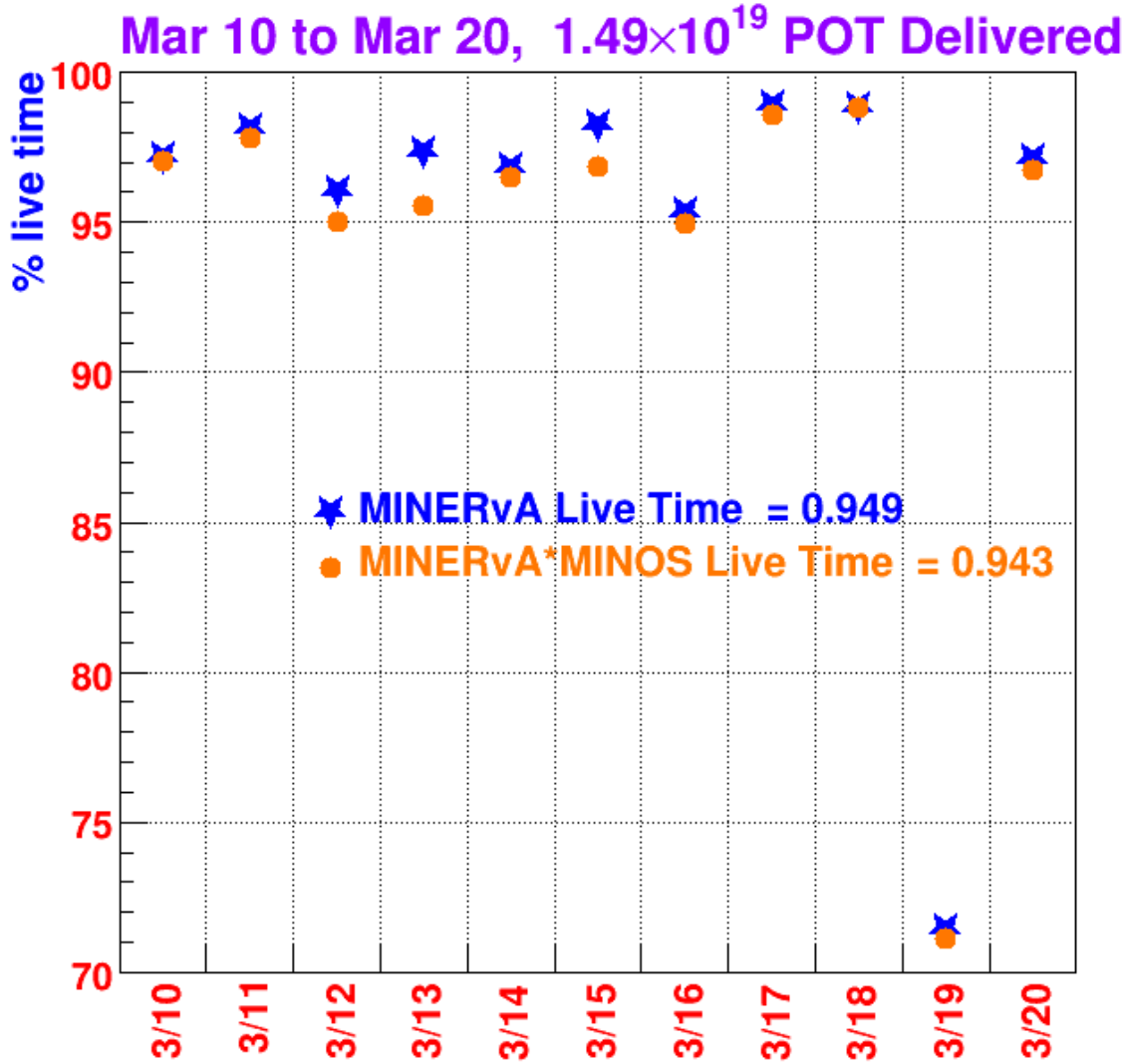
Mar 30, 2015

ν Data



- Live time, Mar 10 - 20
- 1.49×10^{19} POT
- MINERvA 94.9%
- MINERvA*MINOS 94.3%
- For Mar 21-25
  - 3 of the days had efficiencies which were clearly not correct. Therefore, Mar 21-25 will be presented next week.

ν Data

- Mar 10 – 96.4%
  - Efficiencies rerun & went to 97.2%
- Mar 12 - 96%
  - For 2 consecutive runs, RC was unable to start a new subrun, so the restart DAQ script was run on both subruns
- Mar 14 – 96.8%
  - Again the RC froze trying to start a new subrun so the restart DAQ script had to be run
- Mar 16 – 95.3%
  - In an attempt to fix this problem with RC moving to the next subrun, 2 obsolete RC files on the DAQ machine were updated. The DAQ had to be restarted to get the new files.

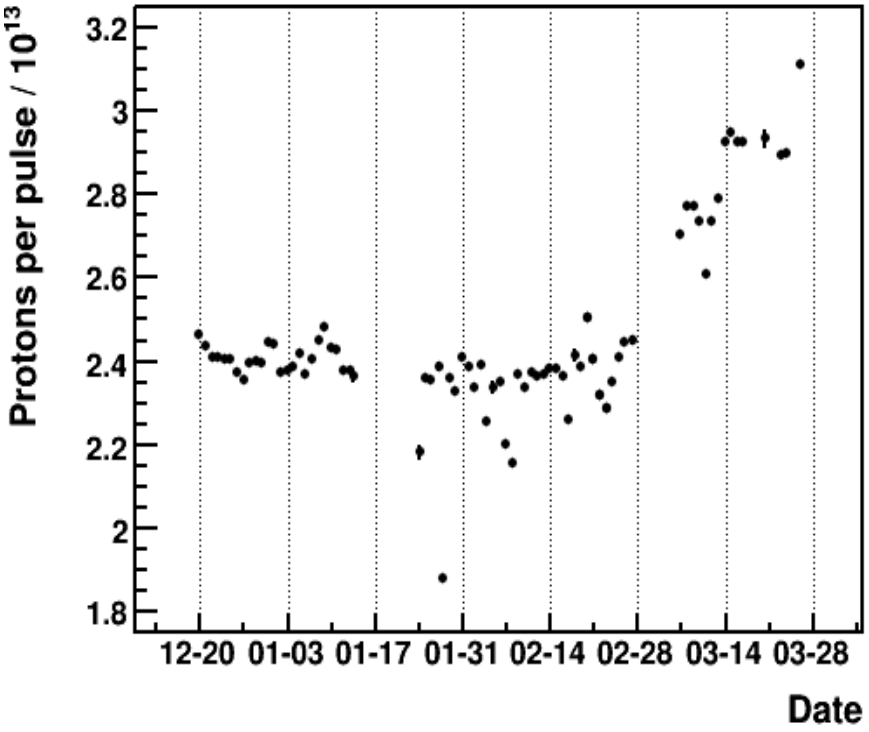
ν Data

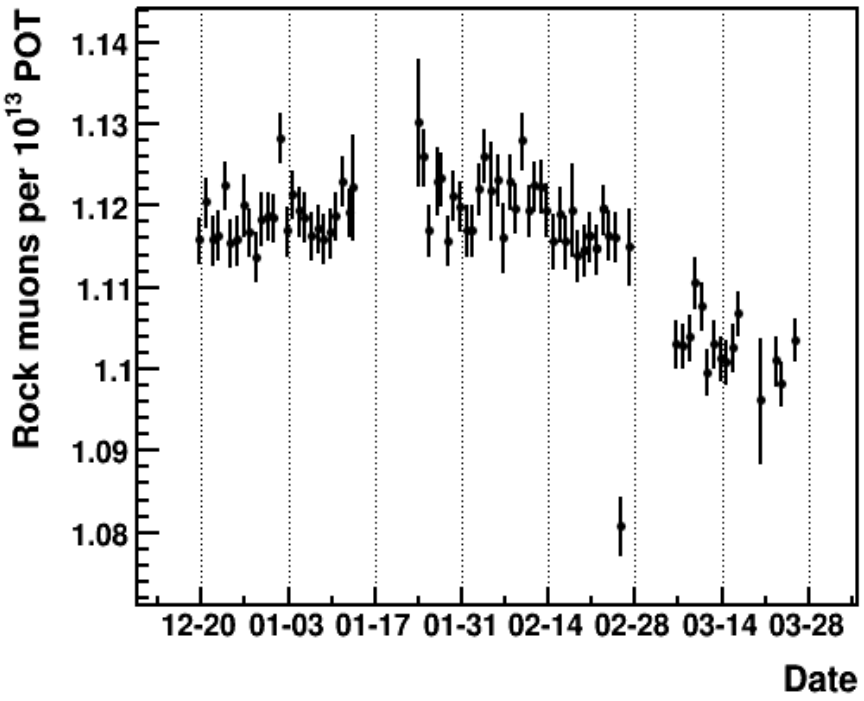
- Mar 19 – 71.4%
  - A FEB caused a chain to fail. The failed chain prevented the run from starting. The usual reset commands were run to get the chain working, including power cycling the chain. The experts went into the MINOS hall to try recover the chain. In the process of trying to recover the chain, the VME crate showed problems. The crate was power cycled a couple of times and the crate still had problem. After the experts took a short break, everything work!
  - This kind of failure has happened a couple of times during the ME run with a crate having this kind of problems.
  - The FEB which caused the original problem has not shown the problem again. Note, that because the readout is a daisy chain of 6-10 FEBs, we do not know which FEB caused the original problem.

AC Down Day
Mar 18 2015

- We replaced a CROC-E in Crate 0 Croc 5 to try to address the Device Header problem. We have not gotten a Device Header problem since replacing the CROC-E. Occasionally we had gotten a Device header problem on another CROC-E, but that has not happened since Mar 18.
  - There were 3 problem with the header length since Mar 18. All the data on those runs were recovered
- To try to fix the problem we are having with RC going to the next subrun, We updated mnvonlinelogger to specify the server for NTP to use. As previously stated for Mar 16 live time, we updated some of the DAQ files. As stated in the AEM report 2 weeks ago, we changed how the copying is done from the DAQ machine to the logger. But we are still having problem with RC starting the next subrun. Usually it succeeds, but sometimes it requires manual intervention to go to the next subrun.

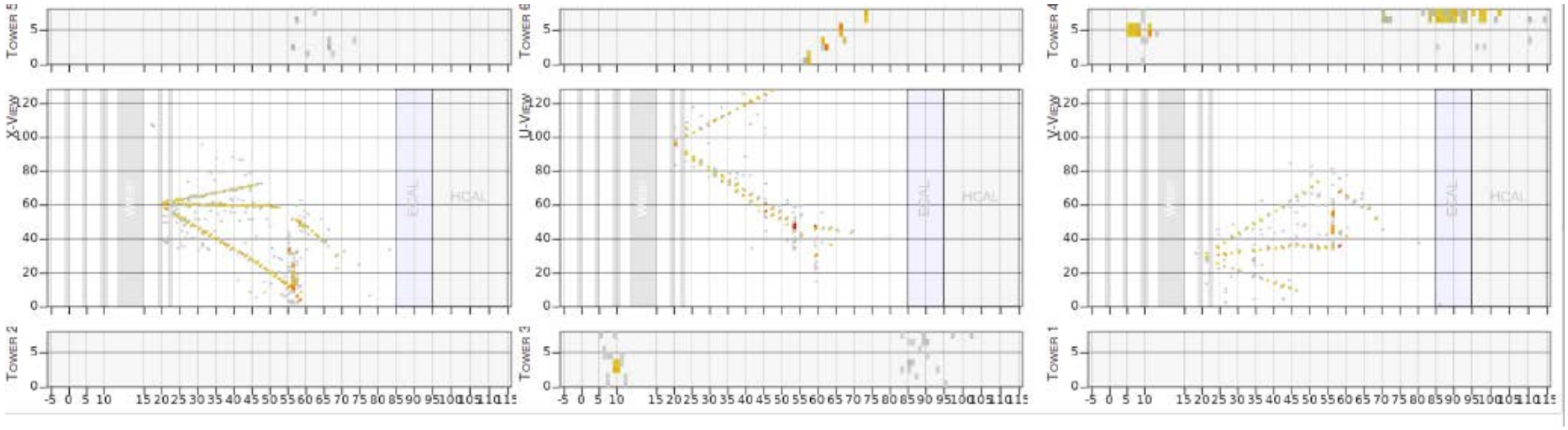
Rock Muons/POT





- We are seeing reduced tracking efficiency from the high luminosity.

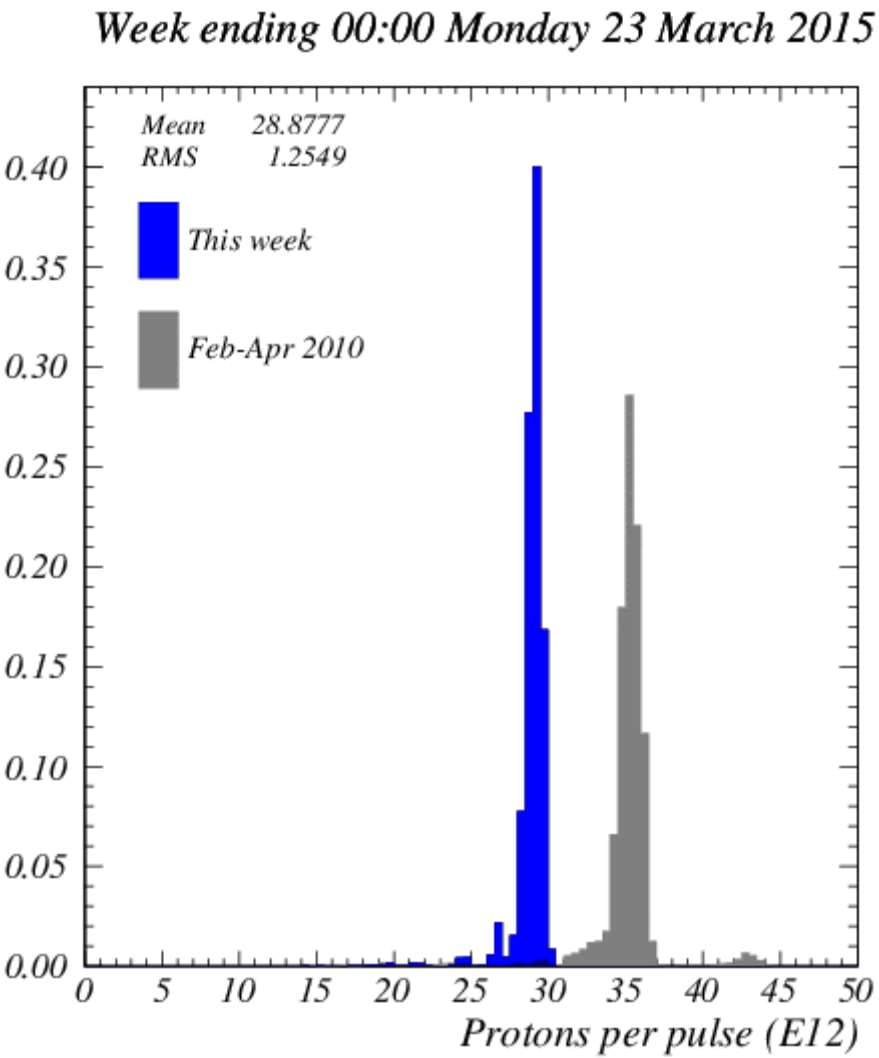
Event Display

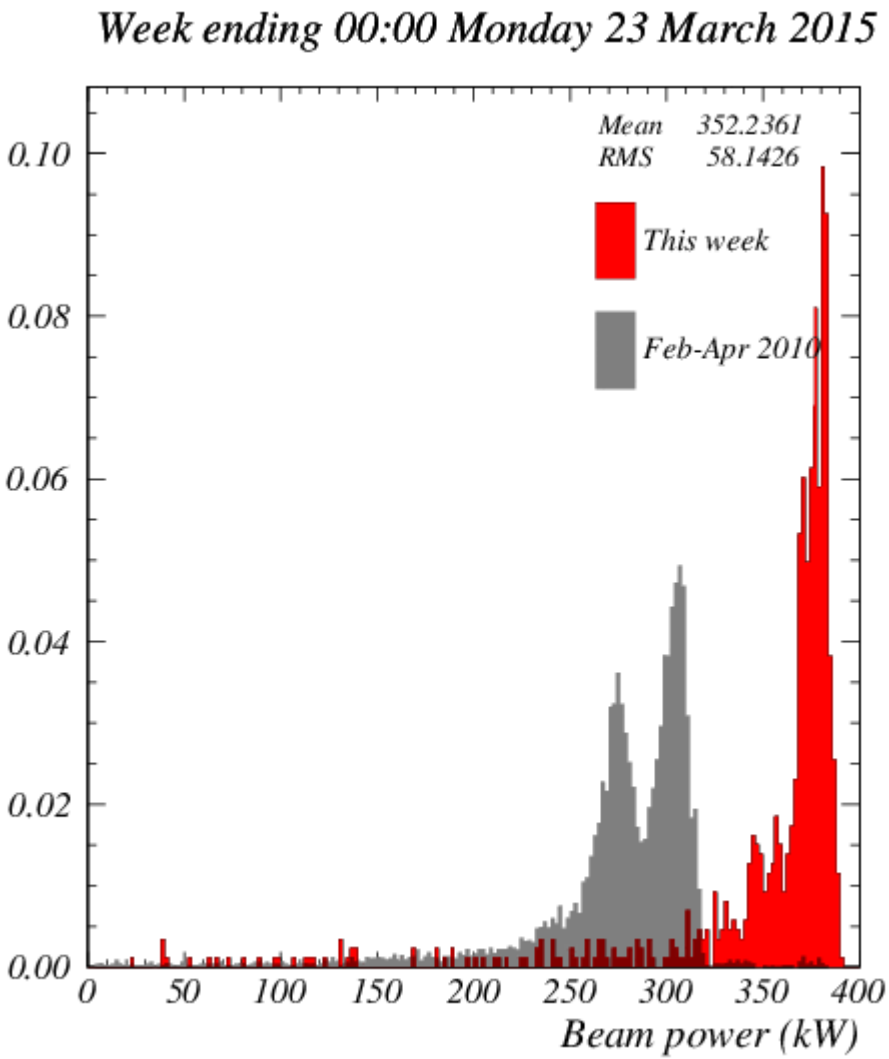


X View V View U View

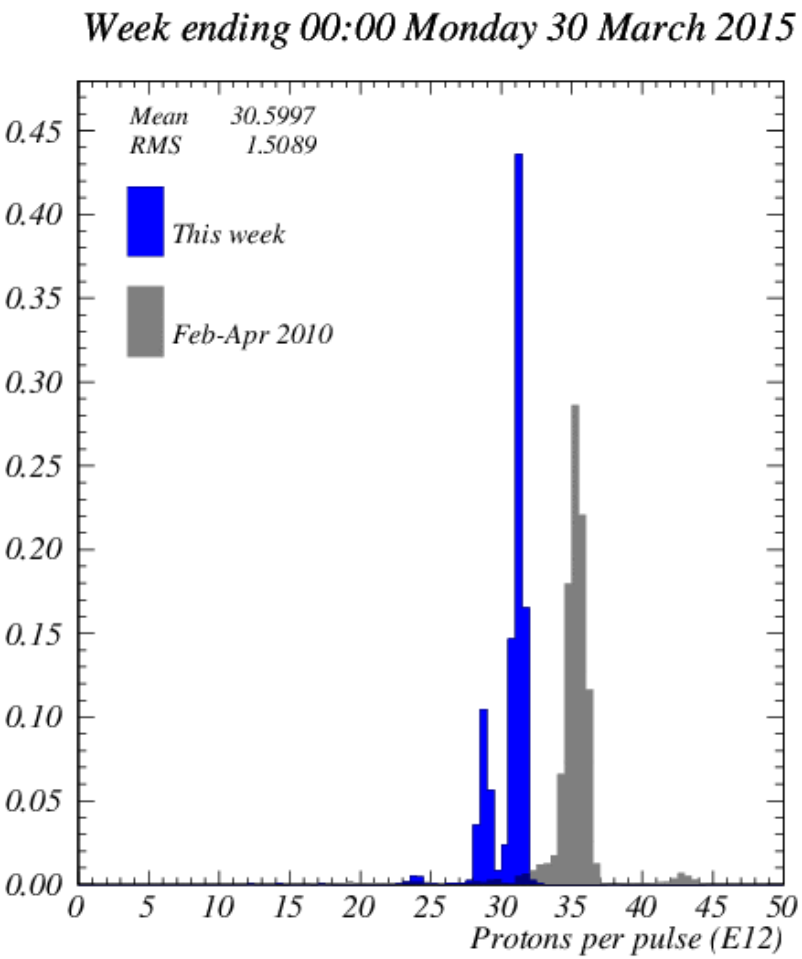
Nuclear Target CC Event

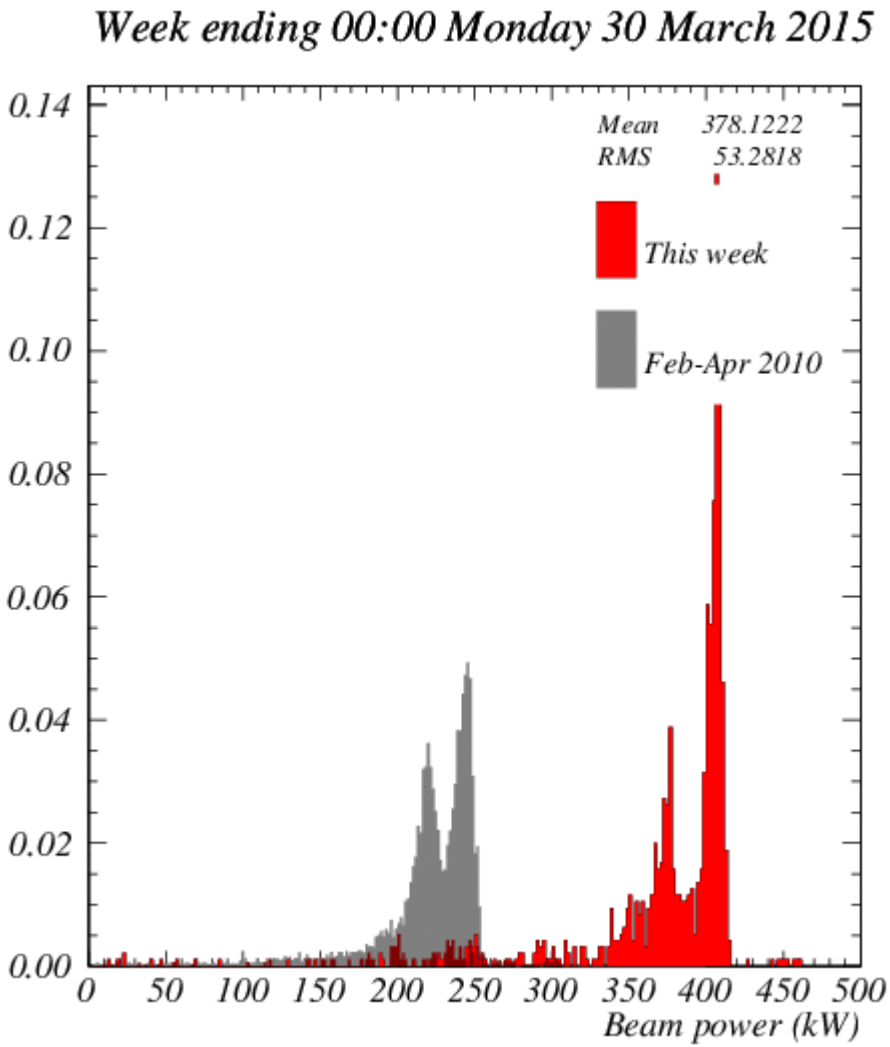
NuMI Beam Plots
Mar 16 - 22, 2015





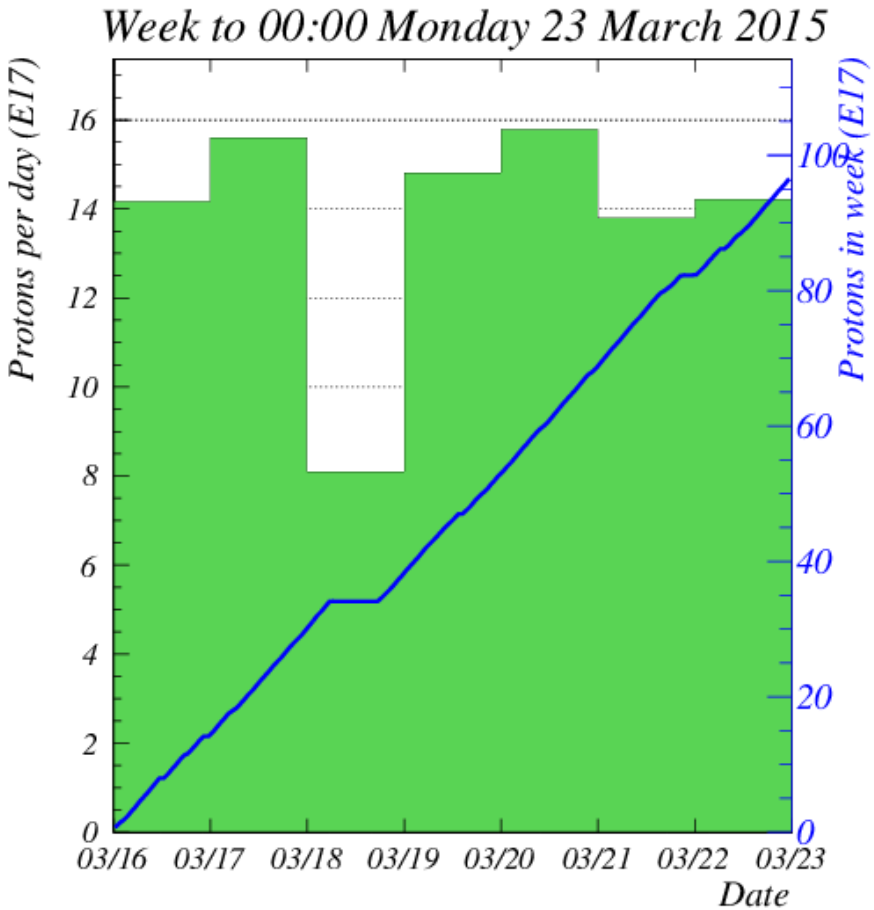
NuMI Beam Plots
Mar 23-29, 2015



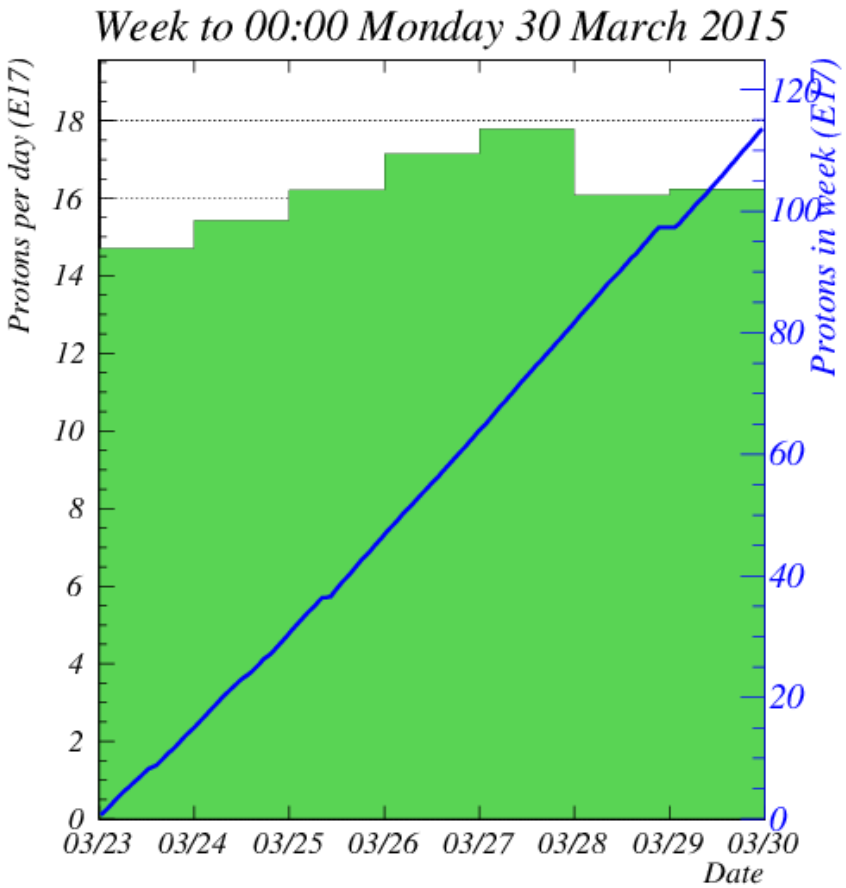


Protons for the Week

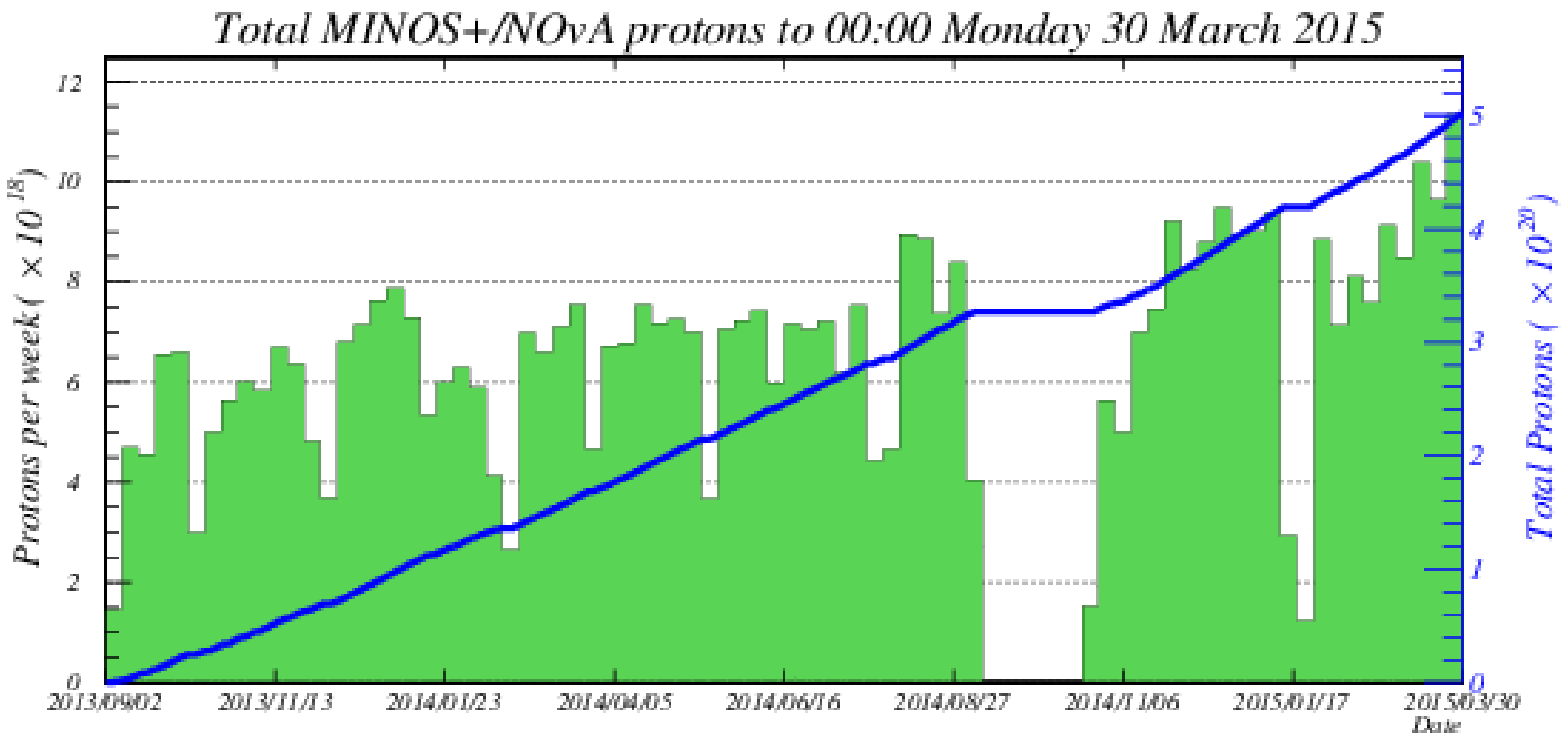
0.96×10^{19} POT
Mar 16-22, 2015



1.14×10^{19} POT
Mar 23-29, 2015



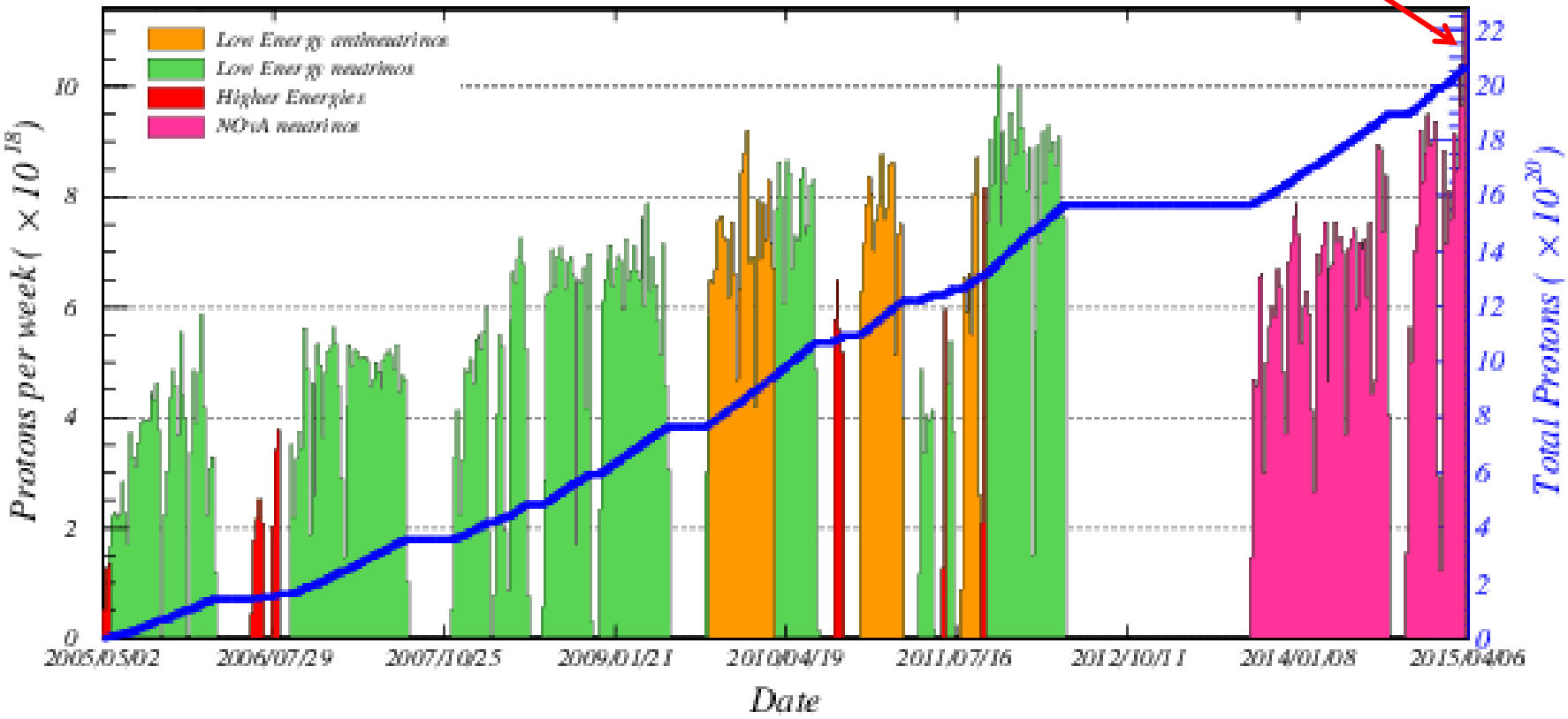
Protons for ME Run



50.08 ×10^{19} POT - Sep 6, 2013 at 15:00 – Mar 29, 2015

Record week for ME Run with 1.14×10^{19} POT

Previous record Mar 9-15 - 1.04×10^{19} POT

All NuMI Protons

The record week for All NuMI protons