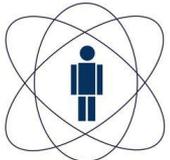


# The MINERvA Operations Report

## All Experimenters' Meeting



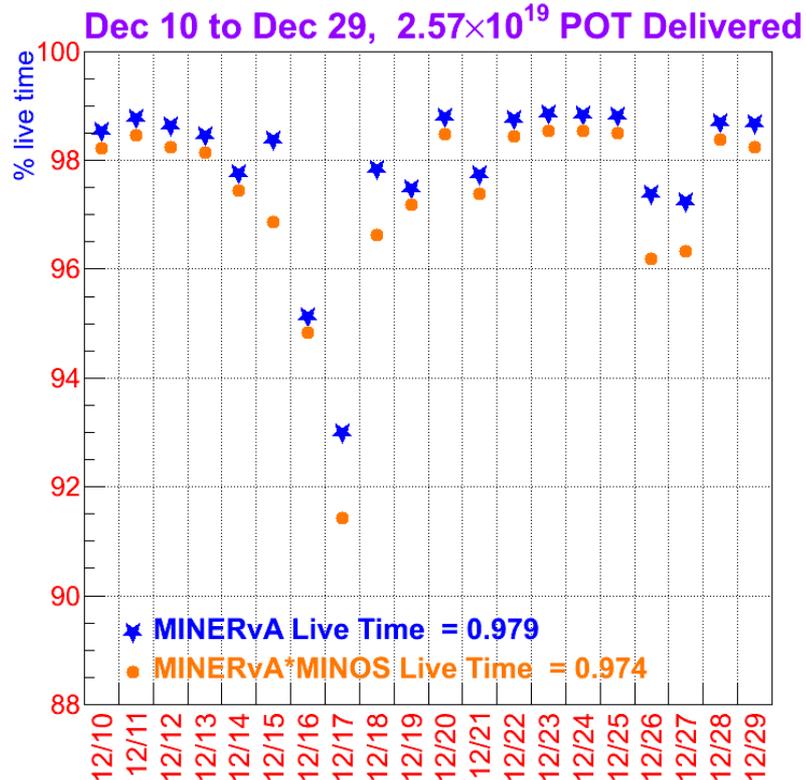
**CBPF**

Centro Brasileiro de  
Pesquisas Físicas

Mateus F. Carneiro - CBPF/Brazil  
Jan 05, 2015



# v Data



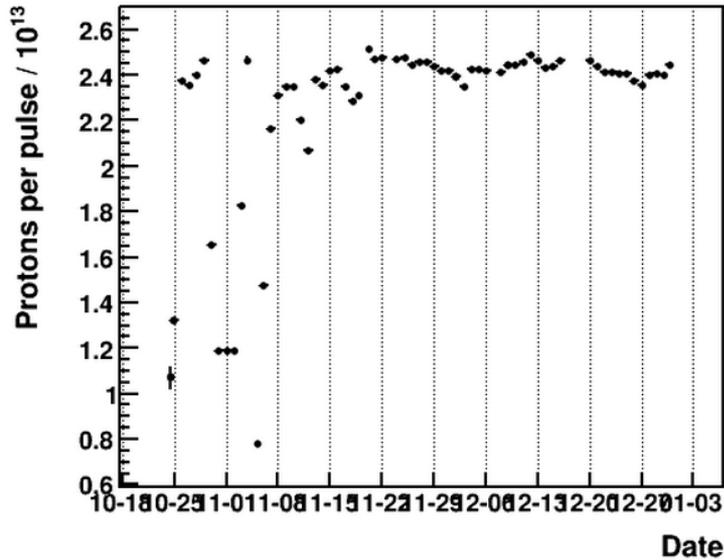
- Live time Dec 10 - 29
- MINERvA 97.9%
- MINERvA\*MINOS 97.4%
- Not presenting efficiency for Dec 30 and 31. The raw data files indicate that we were taking data the entire time. Not all the files have been processed. Dec 30 and 31 live time will be shown next week.
- The lower live time from Dec 16 is due to the same above mentioned issue.
- Dec 17 inefficiency due to repair of a timing problem (next slide).

# MINOS NTP Issue

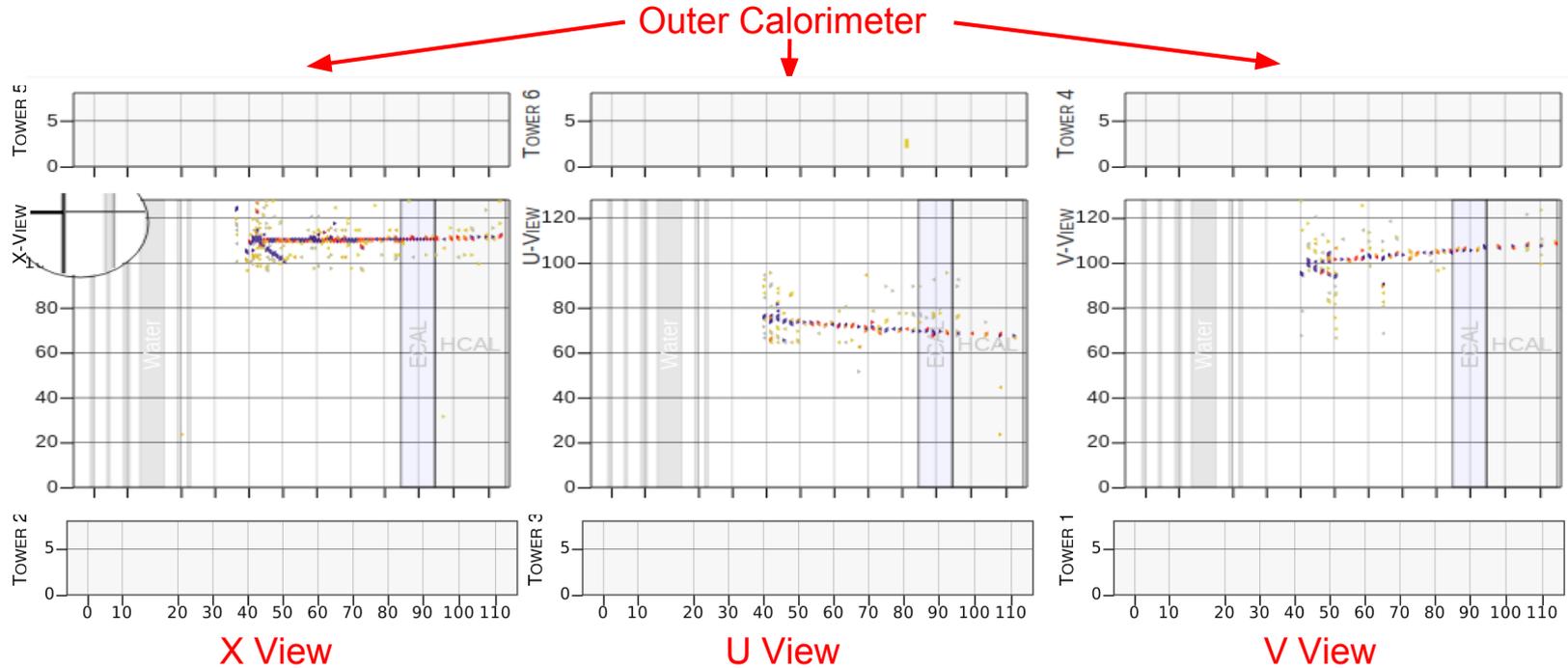
- The Minos GPS interface provides an NTP “**Network Time Protocol**” to both MINOS and MINERvA data acquisition systems.
- The primary use of the NTP time stamp is to do a coarse time matching to find **correct absolute time bucket for data matching** (MINOS and MINERvA).
- During the Fall 2014 shutdown, **MINOS retired their very old Linux NTP server** machine and replaced it with a new one.
- During the startup, **MINERvA was still looking at the old NTP server**, which no longer exists.
- As a result, MINERvA’s absolute coarse time drifted slowly over several weeks, and eventually exceeded MINOS’ time by more than half of a second, making **data matching ambiguous**.
- In **Dec 17** we had to restart some processes so the MINERVA DAQ computers could point to the new MINOS NTP server. This caused a 50 minute downtime.
- Our fix worked and the **problem is gone** now.
- All the data we took while connected to the wrong time server can **still be matched to MINOS** by adding a time-varying correction
  
- **No data was lost from this issue.**

# Rock Muons / POT

POT/Pulse



# Event Display

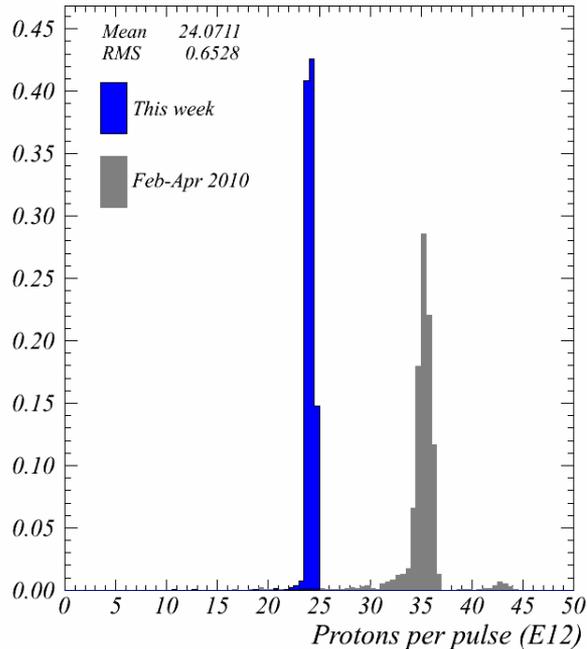


Two-track Charged Current candidate event in the tracker

# Numi Beam Plots

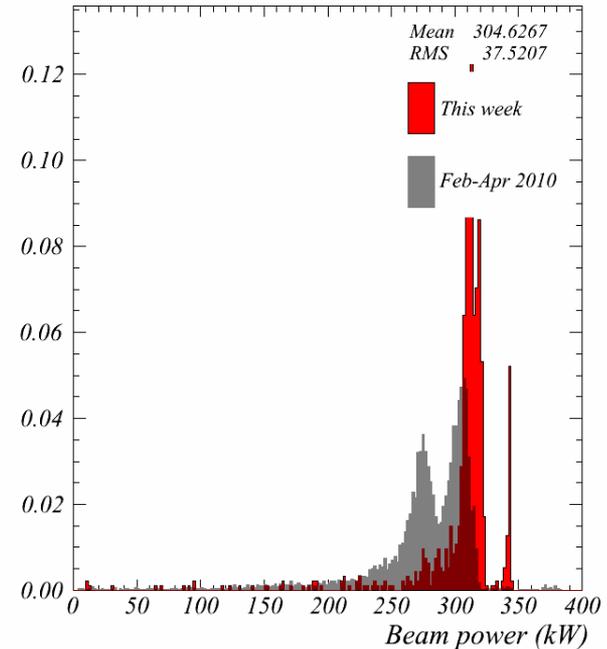
## Per-pulse intensity

Week ending 00:00 Monday 05 January 2015

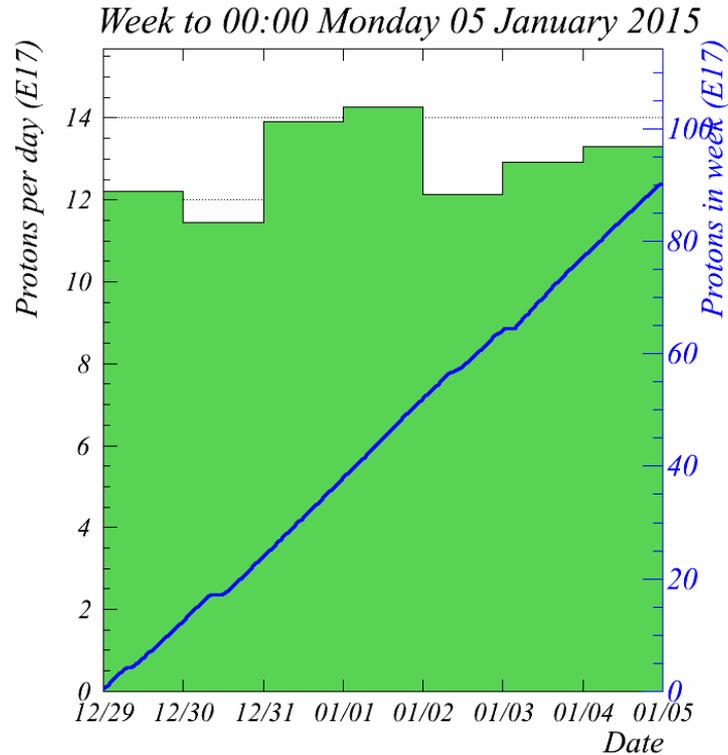


## 10-minute average Power

Week ending 00:00 Monday 05 January 2015

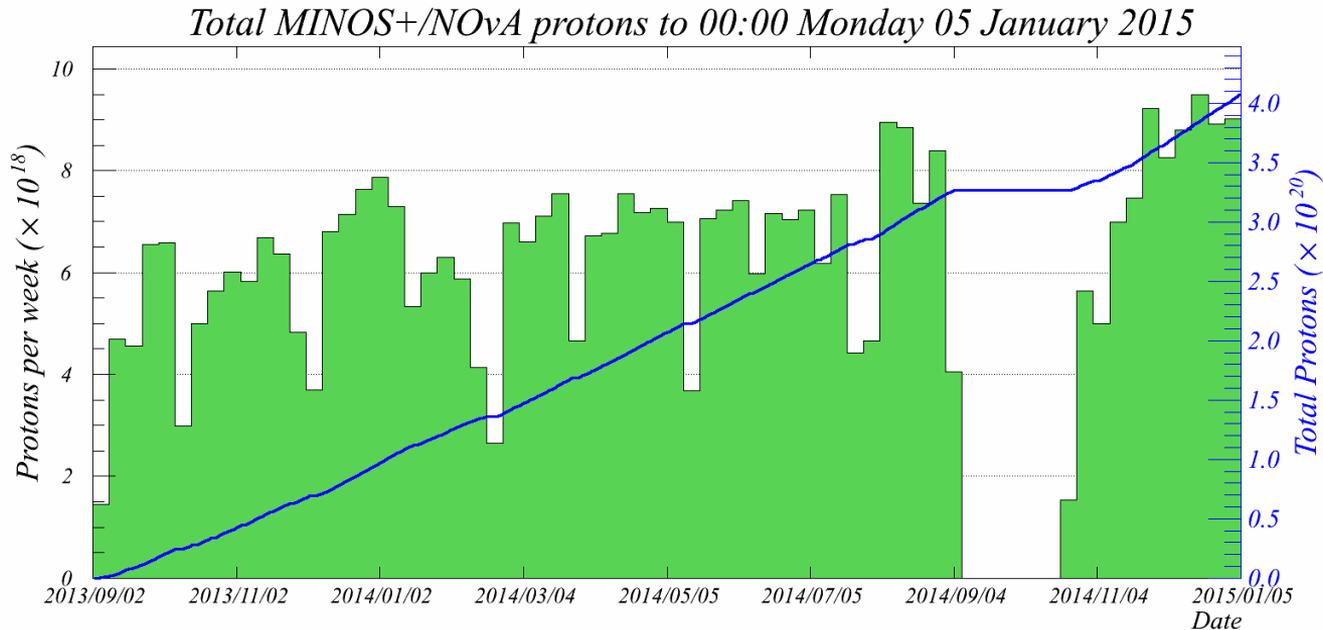


# Protons for the Week



$0.90 \times 10^{19}$  POT  
Dec 29 - Jan 05

# Protons for ME Run



**$40.65 \times 10^{19}$  POT**

**Sep 6, 2013 at 15:00 - Jan 04, 2015**

MINERvA wants to congratulate and thank the Accelerator Division for reaching the  $40 \times 10^{19}$  POT!