

The MINERvA Operations Report

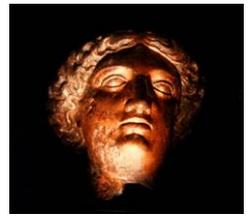
All Experimenters Meeting

Howard Budd, University of Rochester
Mar 05 2012





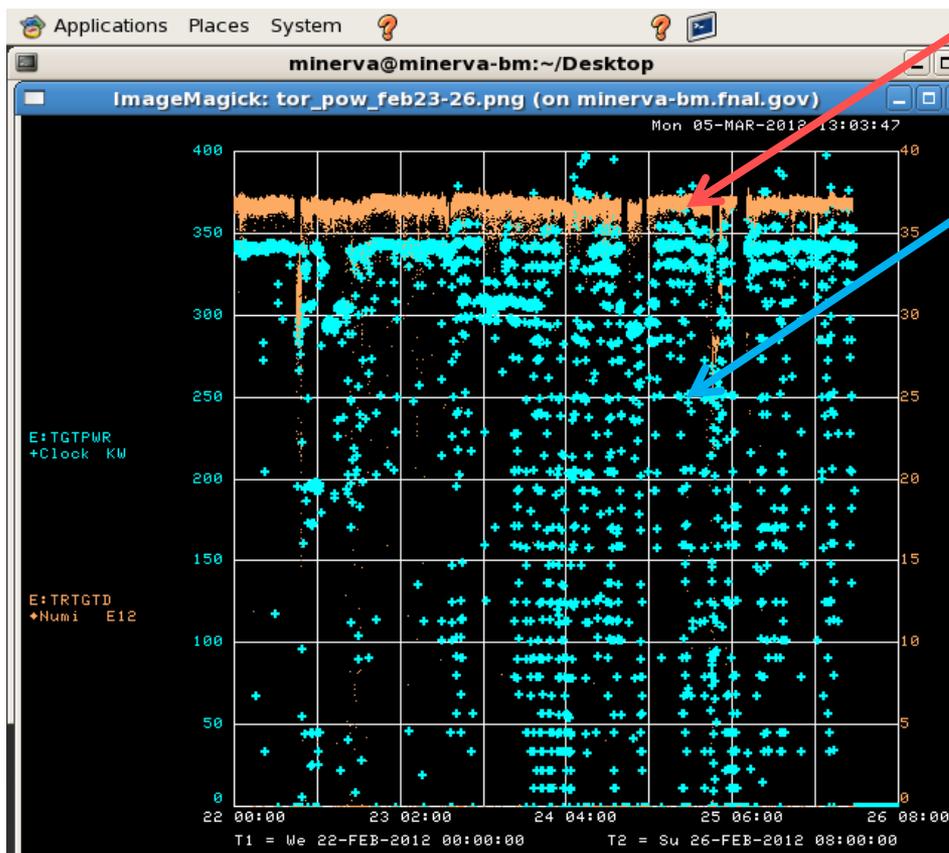
ν Data



- 19.41×10^{19} POT with NT-07
- 18.12×10^{19} POT for ν , Oct 6 – Mar 4 LE10 with NT-07
- 0.96×10^{19} POT for ν , Feb 26 - Mar 4
- 96.9% MINOS Total live time Feb 24-Mar 1
- Problem with beam data so we could not get MINERvA live time for this period
- We will give live times next week.



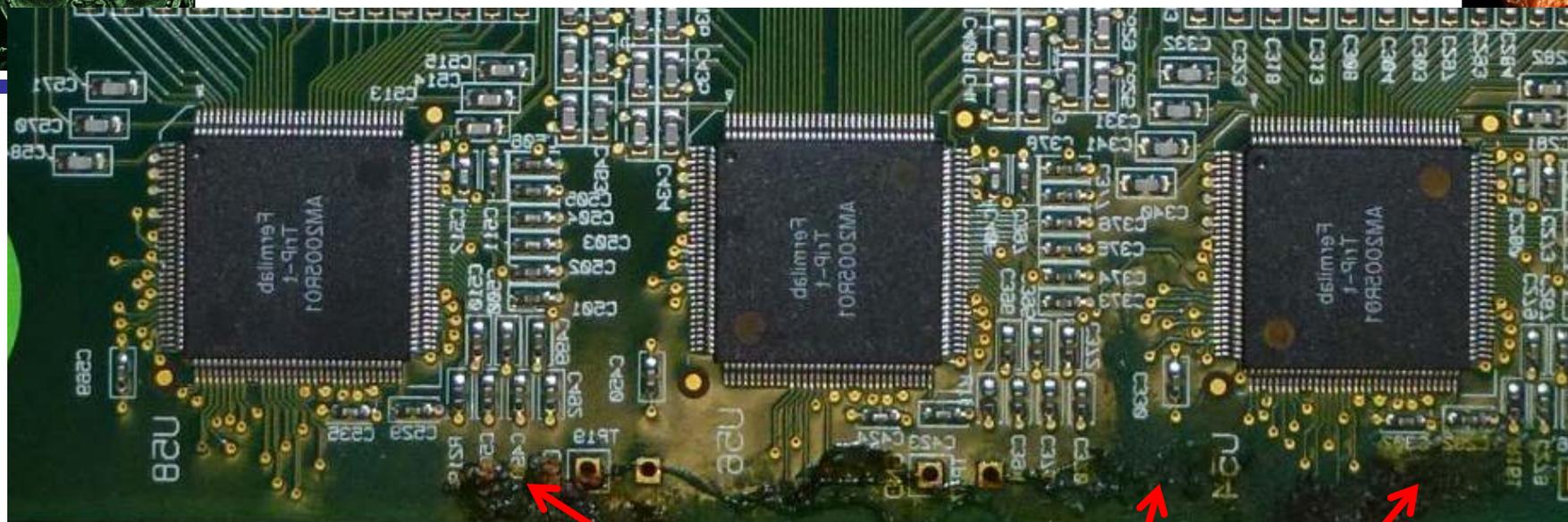
Toroid vs Beam Power ACNET Problem



- Toroid and beam power Feb 22-26. Fixed by rebooting MI3 on Feb 26
 - MI3 -> CAMAC link for MI which controls the portion of ring that branches to NuMI
- Similar problem on Feb 29-Mar1, again fixed by rebooting MI3 on Mar 1
- Problem in ACNET data caused problem for us getting beam data -> in calculating live times.
- The beam data can be recovered, so no loss of data
- Problem appears fixed

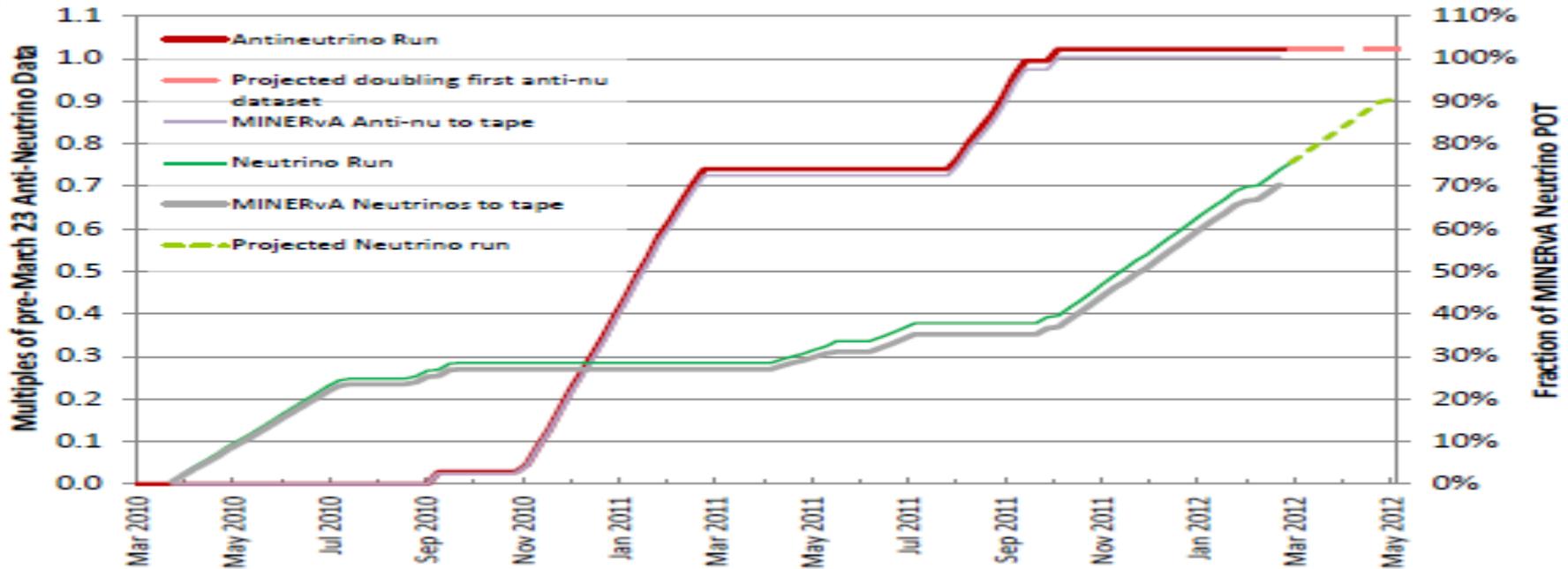


Water Damaged FEB



- 16 channels fail indicates TriP chip failure
 - TriP chip is the analogue front end for the MINERvA electronics
- FEB has water damage which causes one of the trip chips to fail. The plastic cover for this FEB not so bad
- This is the plastic cover of the FEB next to this one. We elected not to replace this FEB.

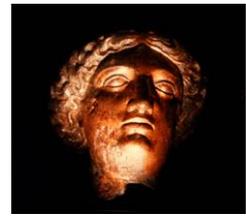
Accumulated POT to Mar 1



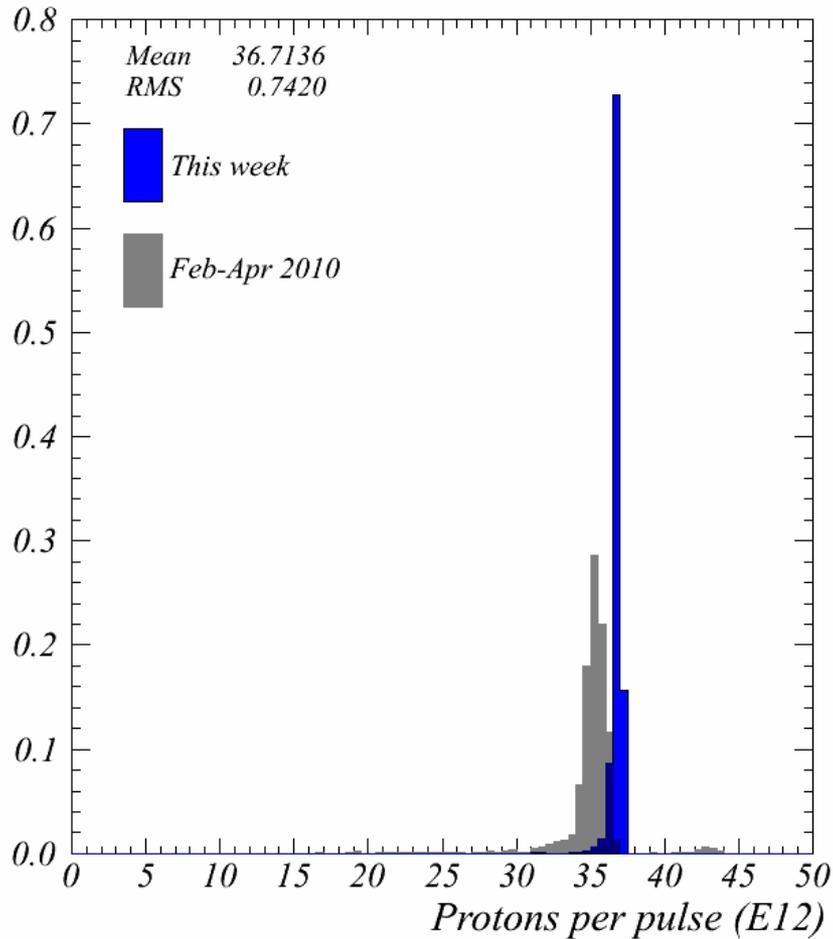
- Anti- ν run, full scale corresponds to 1.76×10^{20} POT
 - # POT for collected for anti- ν before Mar 23 10, official start of MINERvA ν run
- NT02 running gives enough anti- ν data for doubling of the 1st anti- ν data set.
- Minerva run , full scale corresponds to 4.9×10^{20} POT
 - # for which MINERvA project & experiment were reviewed & the detector built.
- Projected assumes 1.25×10^{18} POT/day
 - # POTs – average from Oct 2011 to now.
 - Assumes $\frac{1}{2}$ intensity for last 2 weeks.



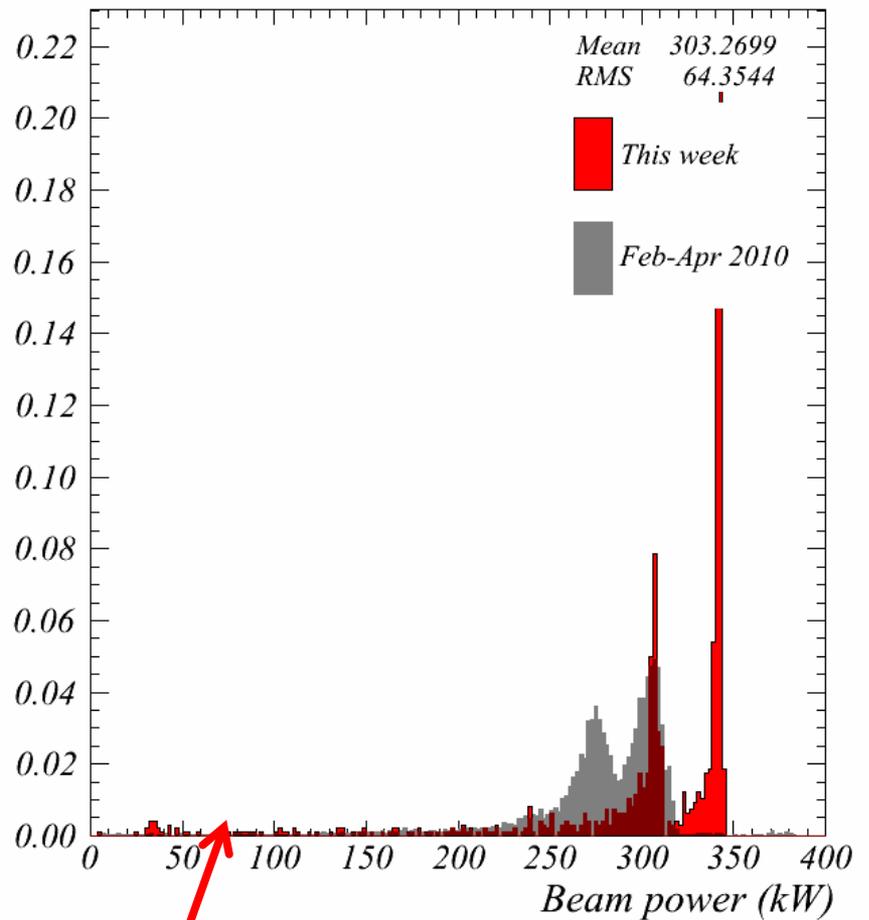
NuMI Beam Plots



Week ending 00:00 Monday 05 March 2012



Week ending 00:00 Monday 05 March 2012



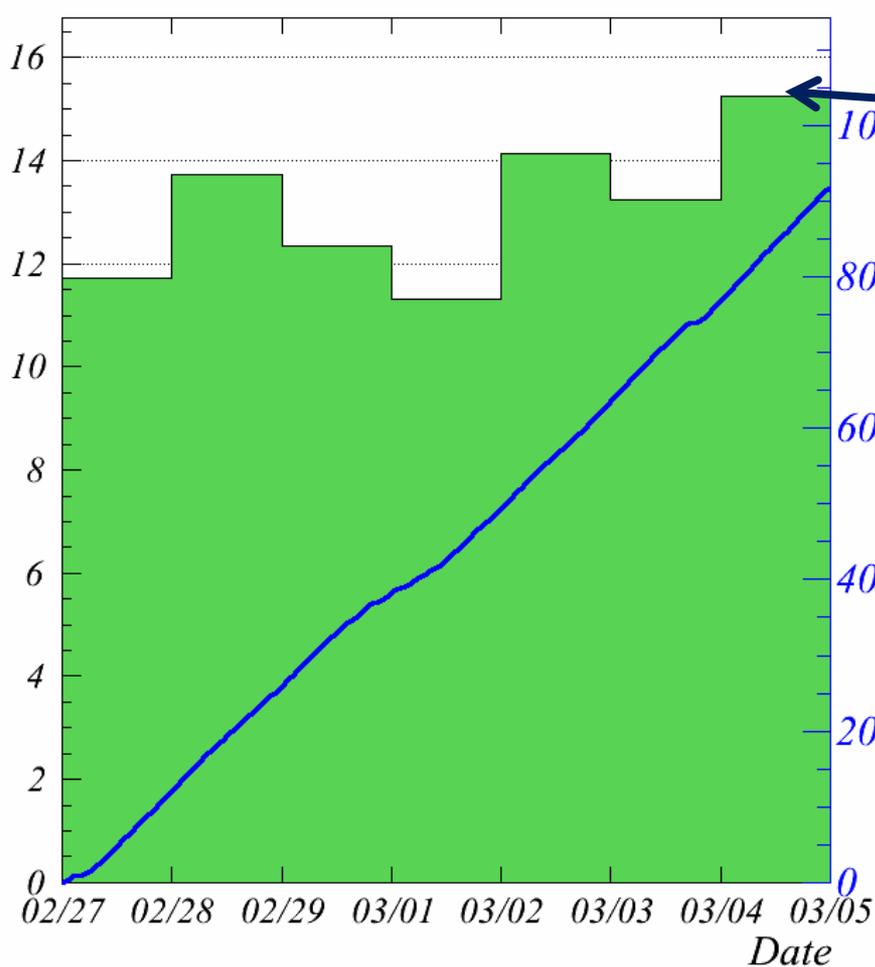
Evidence of this ACNET problem



Protons for the Week



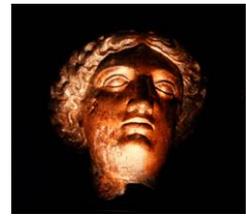
Week to 00:00 Monday 05 March 2012



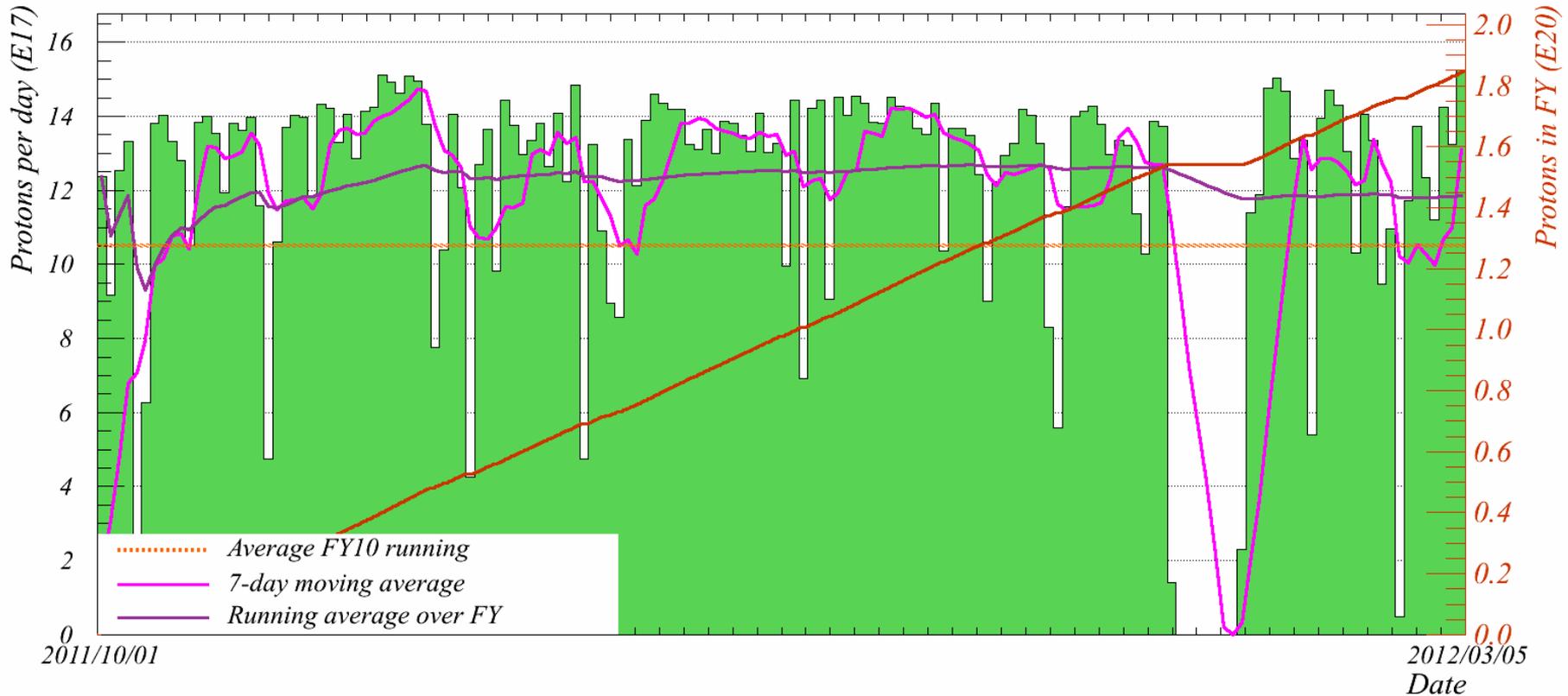
- 1.53×10^{18} POT
 - 2d best day for POT delivered to NuMI target.
- We thank the AD for this record



FY2012 Protons



FY12 NuMI protons to 00:00 Monday 05 March 2012





NuMI Protons over History



1.5×10^{21} POT since start of NuMI

We congratulate and thank all the people involved in this

Total NuMI protons to 00:00 Monday 05 March 2012

