

The MINERvA Operations Report

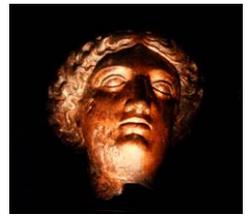
All Experimenters Meeting

Howard Budd, University of Rochester
Nov 11, 2013





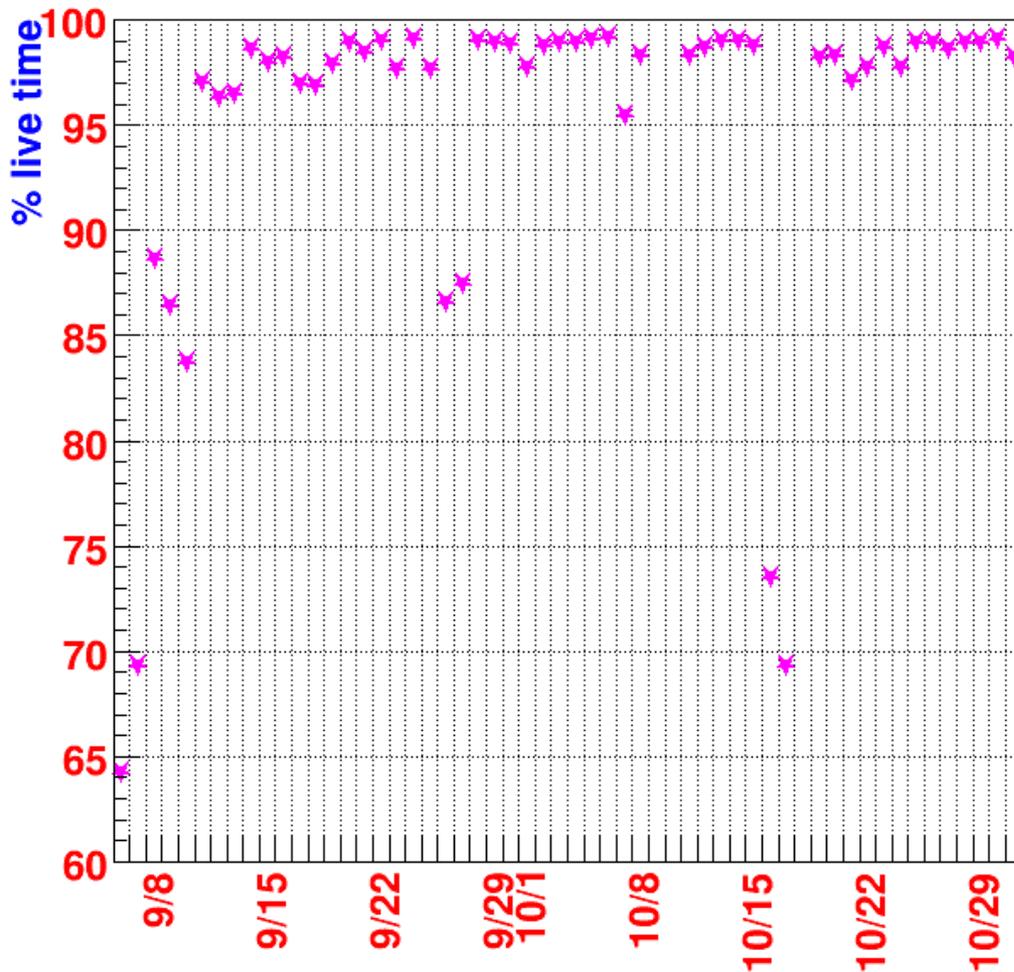
Taking Data



- We are taking data with very small downtimes
 - The detector is operating fine
 - No hardware replacement has been needed to keep the DAQ operating



Status of Calculating Live Times



- We have been working on understanding our live times.
 - Uses LE Run procedure
- The plot shows the present understanding of the live time.
- There appear a problem in calculating the live time Sep 6-10. Not sure why live time is low. The live time program claims some gates aren't there, but the MINERvA data exists with these gates present.
 - Problem could exist in other days with low live time.
- No beam Oct 9-10



West Platform



- During previous shutdown PPD has built a platform which will enable access these FESBs & improve access to the FEBs and PMTs on the West side



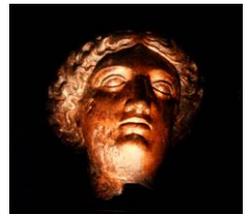
West Platform



- During the shutdown the plan was to
 - Fasten down the flooring.
 - Install railing on the east side of platform to protect the optical cables & give the person working on the detector something to hold onto besides the detector.
- We turn off HV off to do this & hence this must take place during a beam down time.
 - After installation we need to light leak check the detector.
- The goal was then to replace a FEB which has high PEDs ave in $\frac{1}{2}$ the low channels. (The PED ave > 2000 for this FEB, & nominal PED ~ 450 .)



West Platform



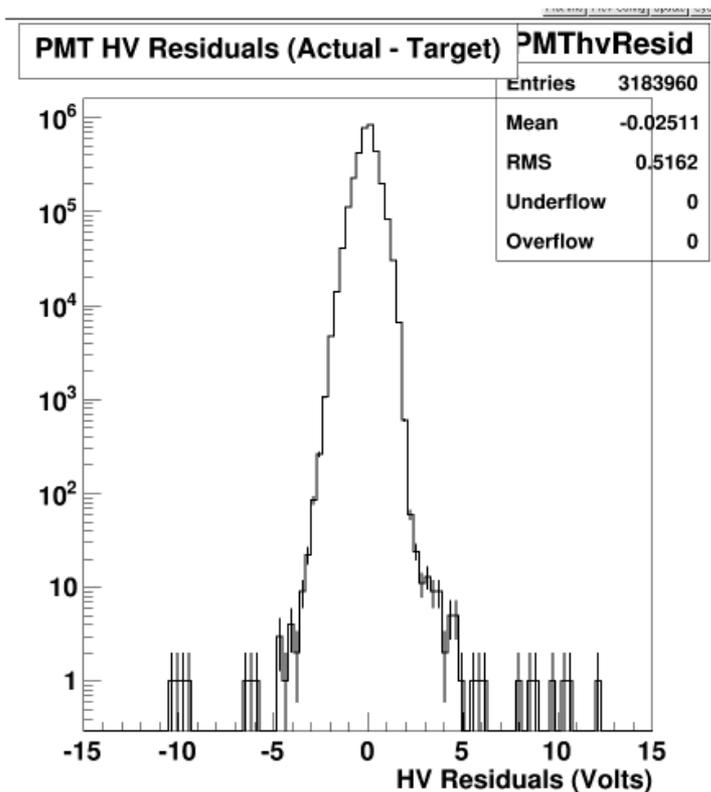
- 2 out of the 3 railings were installed & the gratings were not all tied down & so the FEB replacement was not done
- We are discussing with the PPD how to improve communications to make better use of the shutdown time.



HV varying problem (Issue for Test Beam)

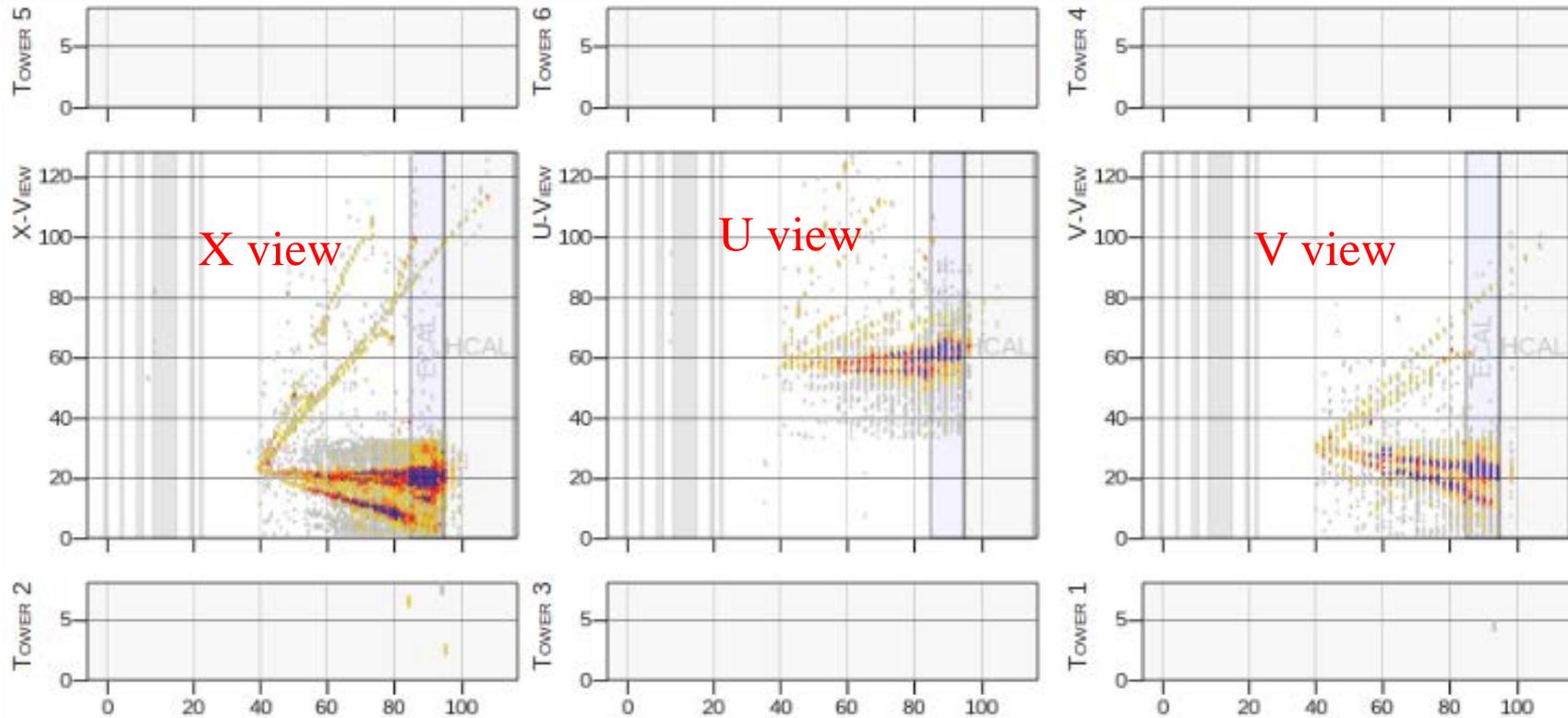
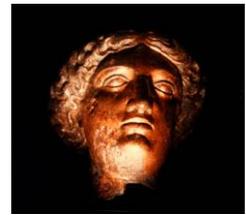


- We did not replace either the FEB or PMT box which has the “High Voltage Varying Problem”.
 - A Cockcroft-Walton generator sets the HV on the tube
 - The HV varies around its set value
 - We need to understand this problem to get enough PMTs for the test beam.
- Paul Rubinov (PPD-EED) suggested some checks we can do understand the origin of the HV varying problem.





Event Display



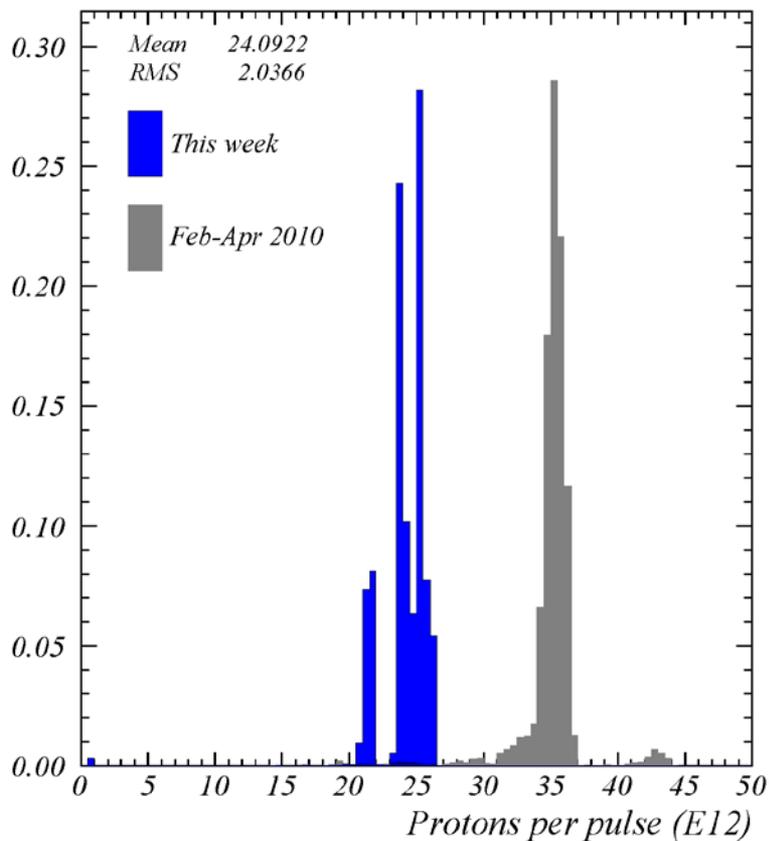
□ π^0 event



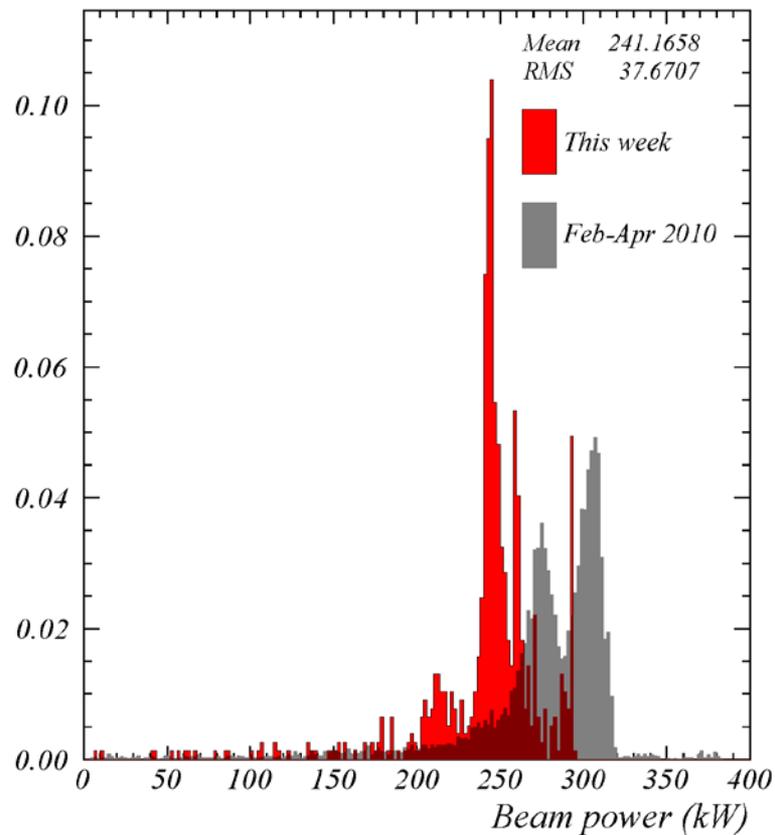
NuMI Beam Plots



Week ending 00:00 Monday 11 November 2013

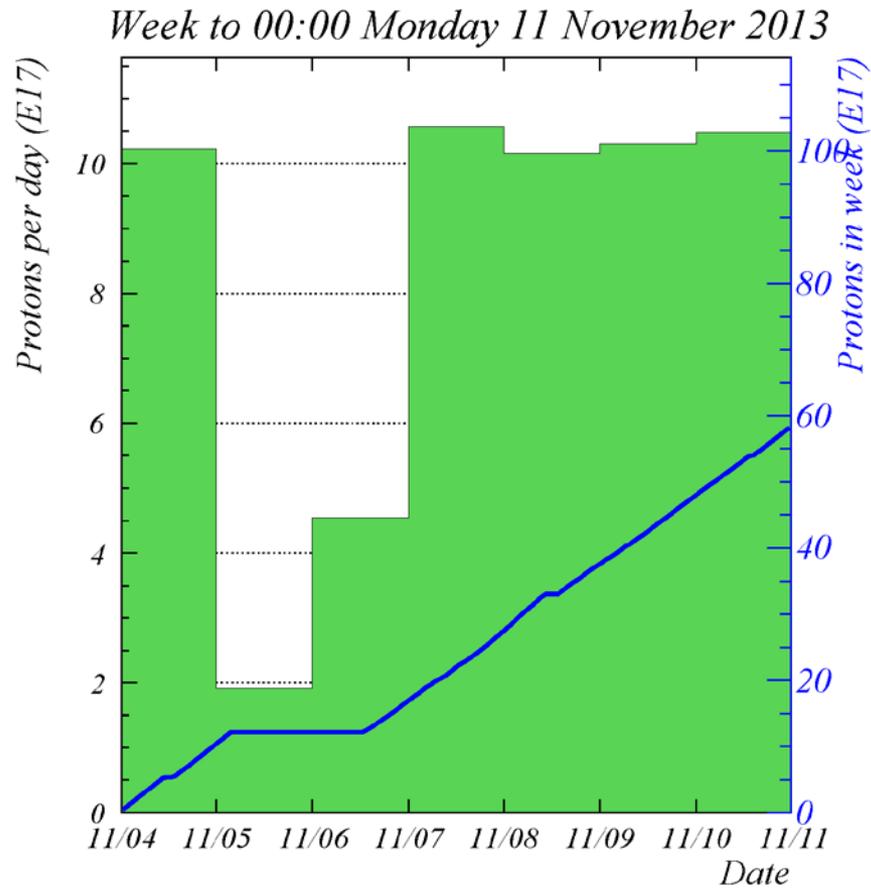
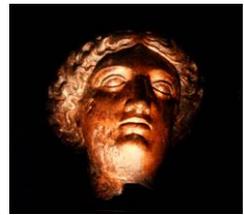


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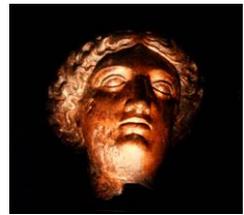


Protons for the Week

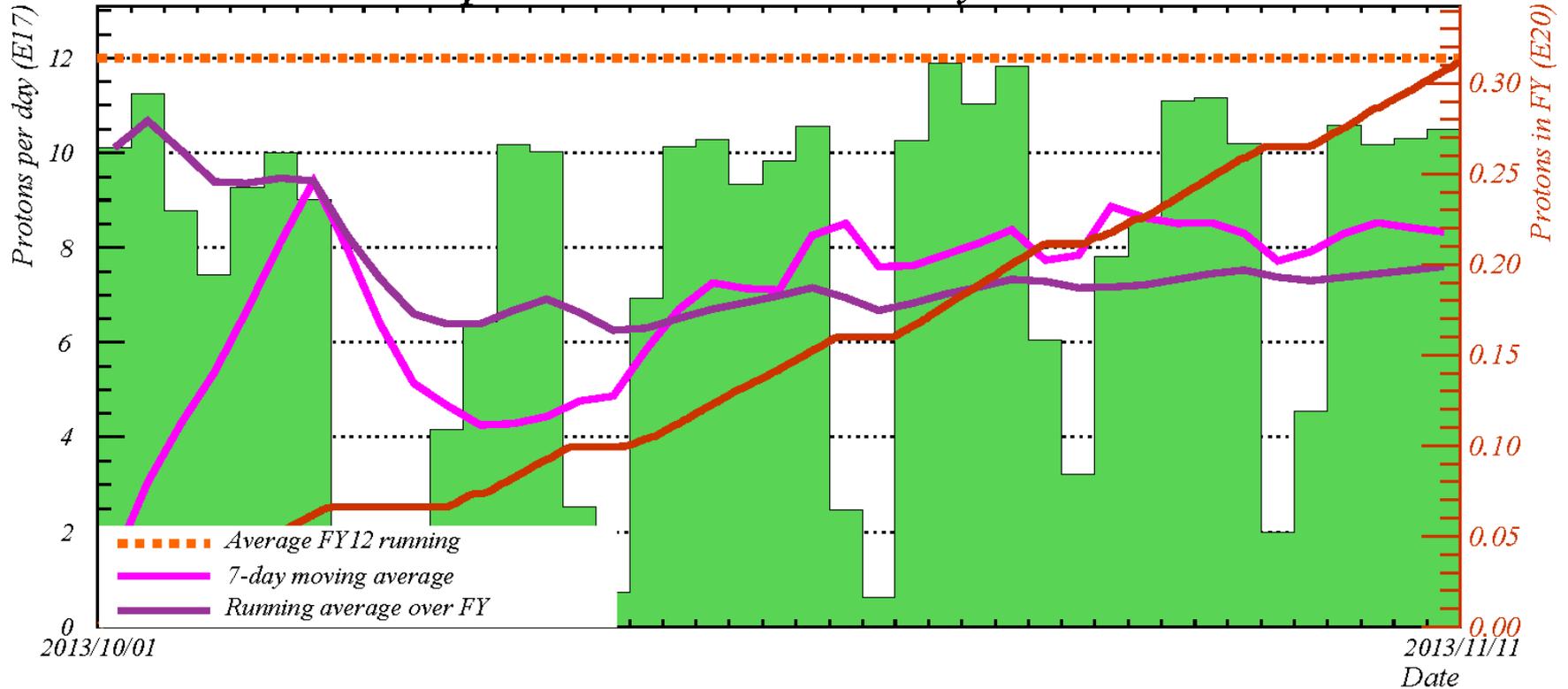




FY2014 Protons



FY14 NuMI protons to 00:00 Monday 11 November 2013





Protons for ME Run

