MINERvA Operations Report

Nuruzzaman
(home.fnal.gov/~nur/)

for the MINERvA Collaboration

Proton PMG

4 October 2018

Fermilab

RUTGERS
THE STATE UNIVERSITY
OF NEW JERSEY

MINERvA Summer Plan

- Setup and check Lab-F Test Stand
  - ✓ We use the test stand to checkout spare hardware components
  - ✓ Use for development of DAQ and Online Monitoring software

- Replace faulty Front End Boards (FEB) and PMTs on main detector
  - Chain 0-4-0 is giving us errors and stopping the DAQ. Replaced 6 FEBs on the chain yesterday, the CROCE, the connector cables, still investigating.
  - ✓ Also replaced 1 FEB on chain 0-4-1 that was giving communication error
  - ✓ Replaced 6 (All) FEBs on chain 1-6-2 where the water was dripping on the detector during last day of beam before shutdown.

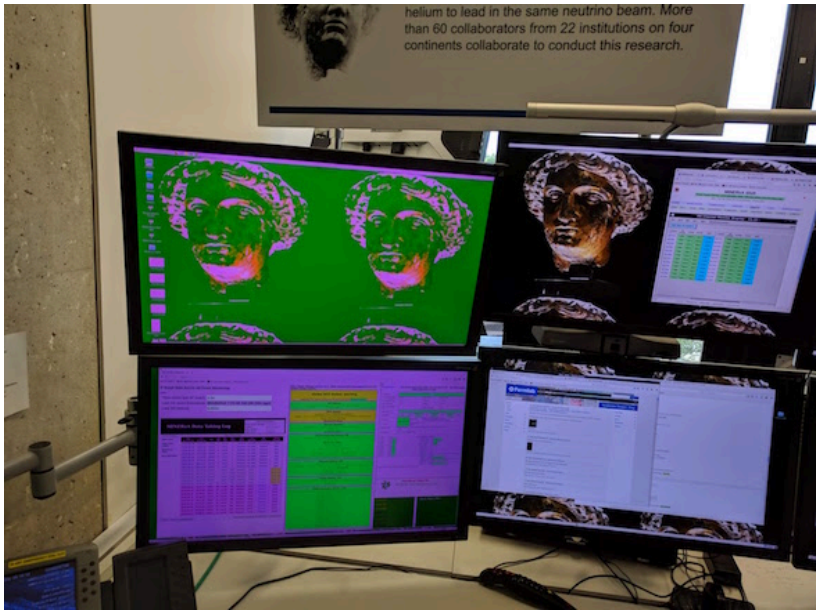
MINERvA Summer Plan

- ✓ Drip pans are repaired now and no more water leak on detector

- Online Monitoring system broke after last power outage
  - ✓ Almost working, its processing the data and producing the plots now.
  - Can run manually, working on fixing the automation part. Will be able to monitor data in a semi-automated way if beam arrives today.

- Clean FESB Power Supplies
  - We plan to do this next week (noninvasive)

Control Room Shift Machines



- ROC West shift computer (minerva-cr-01) had video card failure
  - ✓ Fixed now
- Need to upgrade minerva-cr-{01-03}
  - ✓ SLAM group formatted and reinstalled the systems to load them in new infrastructure
  - ✓ Completed, tested and ready for shifts

MINOS Summer Plan

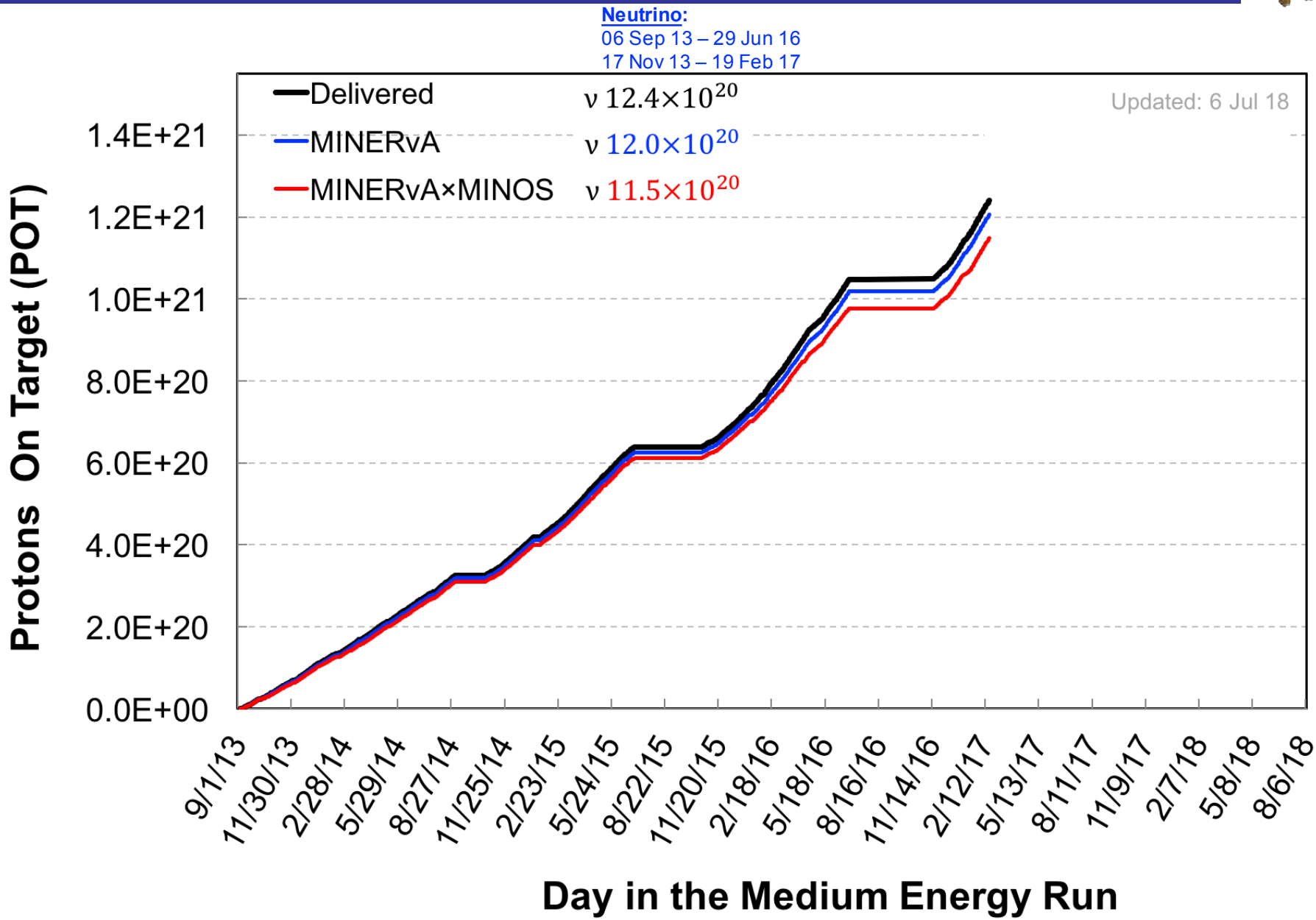
- Replace all rack rear filters; find new filters for LeCroy HV crates
  - ✓ Completed
- Clean HV cards and backplane in rear of LeCroy HV crates
  - In progress
- Magnet/Magnet Power Supply/LCW skid work:
  - ✓ Annual maintenance and repair; practice reversing polarity (Thanks Walt Jieskerney)
- Clean and improve MINOS DAQ rack
  - Plan for next week

MINOS Summer Plan

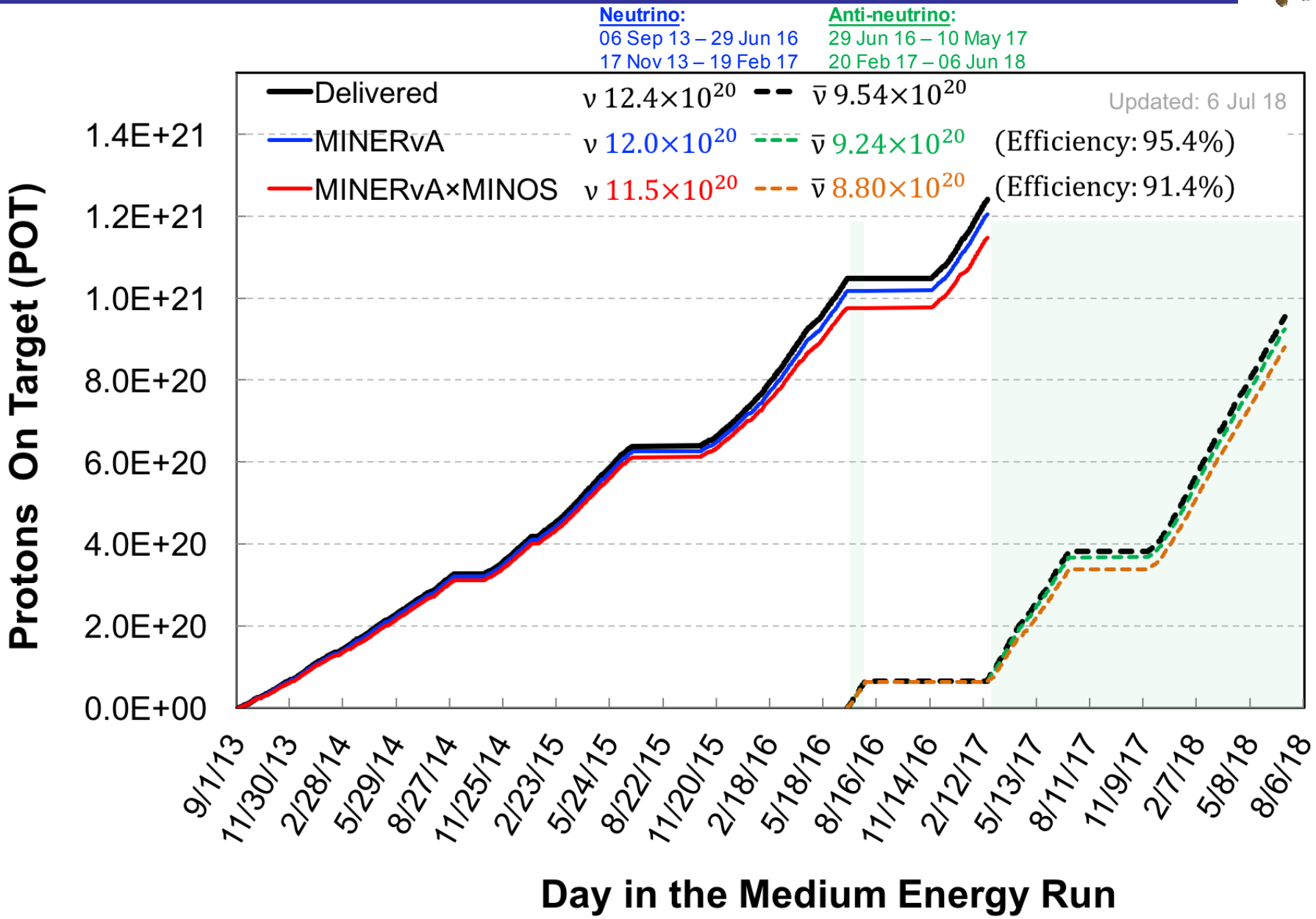
- Add new VMware Windows XP instance for video server readout of MINERvA cameras
  - Noninvasive
- Update the two MINOS Desktop computers to SLF 6.8 and put them on SLAM infrastructure
  - Noninvasive, will do it next week
- Replace a RPS Box giving fake fan failure message
  - Completed
- Replace hardware that fails during the shutdown: MINDER boards, MASTER boards, power supplies …
  - ✓ All the failed components are replaced and we are ready for beam

Thanks to Steve Hahn and Donatella Torretta for continuous support

ME Proton On Target



ME Proton On Target



Thank You