

# *The MINERvA Operations Report*

Nuruzzaman

(<https://userweb.jlab.org/~nur/>)

for the MINERvA Collaboration

All Experimenters Meeting

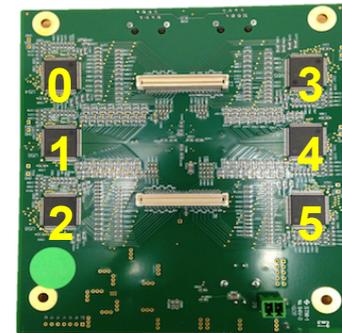
7 November 2016

# DAQ and Detector Status



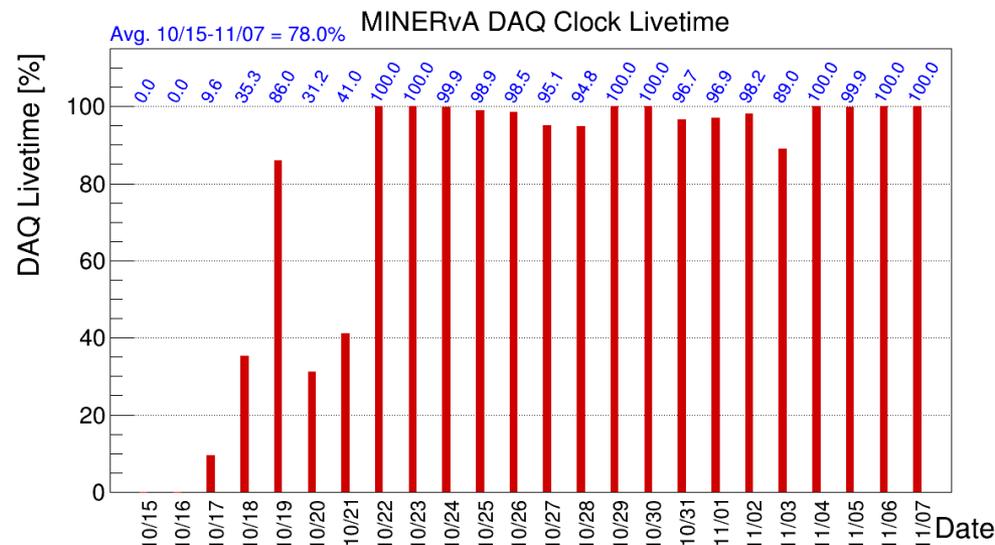
## FEB firmware Update

- A FEB has 6 TriP chips and have a push operation when they are storing charge



- In FEB firmware v95 TriPs are pushed in pair. TriPs are dead when they push
- In v97 we can push 1 TriP instead of TriP pair and is necessary for high intensity ME beam to reduce dead-time and improve detector stability

- ✓ DAQ and data unpacking software were updated for the firmware change
- ✓ FEB firmware v97 Installed on underground detector and running for 3 weeks without any issues



# Hardware Replacements



## CROCE Replacement

- Chain 0-2-3 was giving nearline data corruption errors
  - ✓ data looks ok after the CROCE replacement



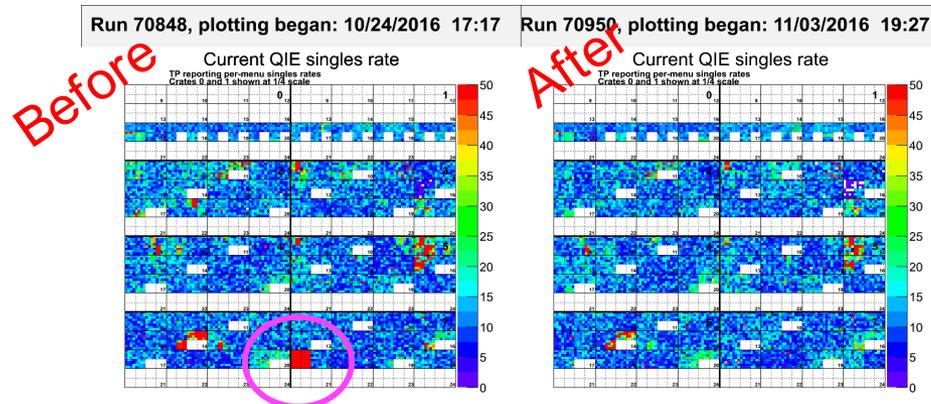
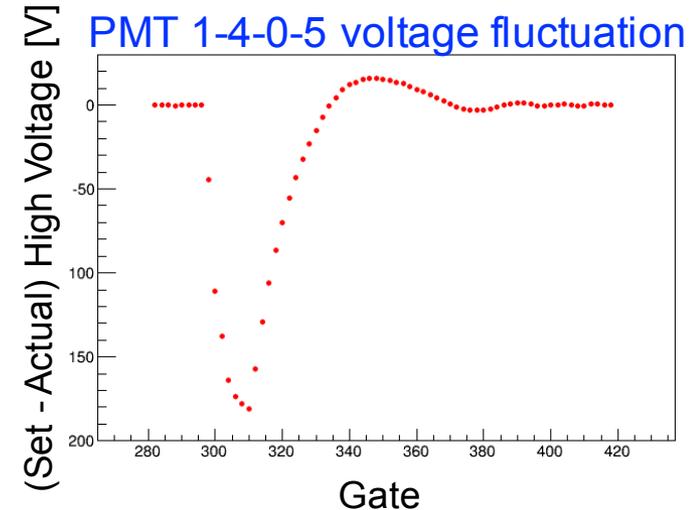
## MINERvA PMT (Routine) Replacement

- The PMT 1-4-0-5 is showing voltage fluctuation
  - Started the replacement process

Convention:  
Crate-CROCE-Chain-FEB

## MINOS PMT Replacement

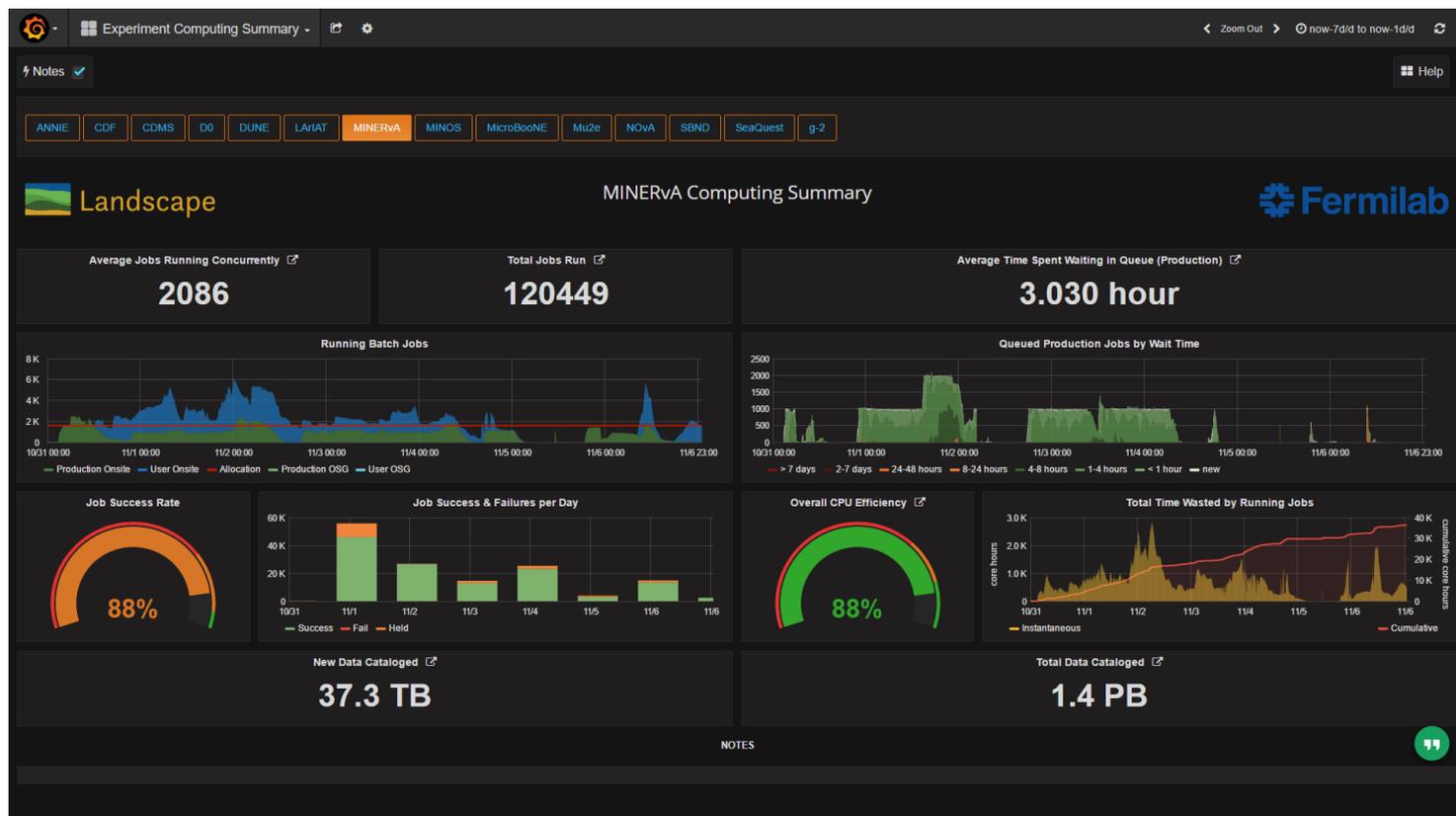
- The PMT was showing light leak
  - ✓ Replaced the Alner box for the PMT and looks good now (last replacement was 3 years ago)



# Computing



Period  
10/31-11/6



- Average concurrent jobs ~15% higher than quota
  - ✓ Production is currently active
- Success rate is low due to a user using a tool which was not part of resource survey and ran over memory limit
  - ✓ Resolved now
- Efficiency is very good



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# Thank You

# Change in Shift



## New Plan



At ROC West or UROC

- complete all checklists
- monitor everything
- contact experts for any failure

From anywhere

- Completes a set of checklist within the time blocks 8:00-10:00 pm and 4:00-8:00 am
- experts are automatically notified in case of failure

Weekly Shifts

Expert Shifter: Fix any detector issues for continuous data collection.  
 SOS: 2<sup>nd</sup> buddy for ES's underground access