

# The MINERvA Operations Report All Experimenters Meeting

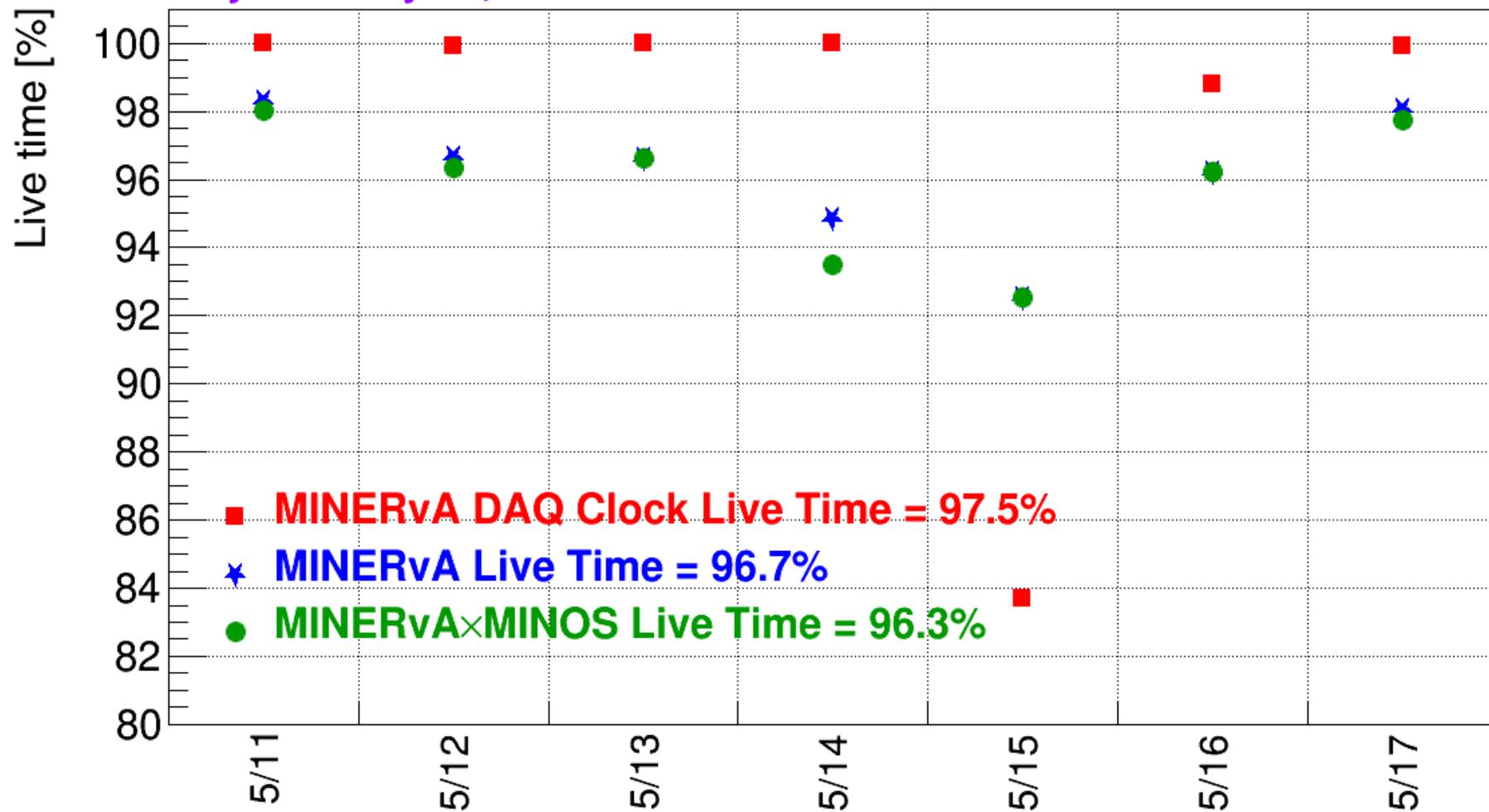
Howard Budd, University of Rochester  
May 22, 2017





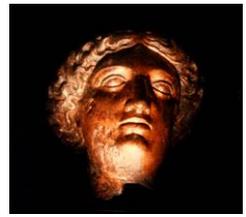
# $\nu$ Data

May 11 - May 17, 2017: POT Delivered =  $1.50 \times 10^{19}$





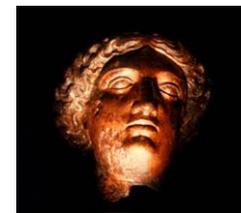
# May 15 Power Outage



- Both MINOS and MINERvA detectors came up fairly smoothly after the power outage. It took us ~ 3 hours to get both detectors running. We had some problems with the MINERvA detector after it was up. These will be described.
  - Thanks Steve Hahn and Donatella Torretta of ND



# v Data



- May 12-15 – 95.8% MINERvA live
  - Each day a subrun failed keepup due to a data error
    - The data errors were due to communication errors, not due to power outage
- May 16 – 96.2% MINERvA live
  - Reset a chain twice to try to fix a communication problem in a chain. Communication problems often follow power outages.
- After the May 15 power outage, we got ~ 700 “Dummy bit errors”. This error causes 2 consecutive gates to be bad, but does not stop Keepup. So it does not show up in the live time. We fixed the problem on May 18 by doing a CROCE reset, which cannot be done in software. Up until now “Dummy bit errors” have been very infrequent and can usually be fixed by software chain reset.
  - We are working on the unpacking to handle this error.

**Average Jobs Running Concurrently**

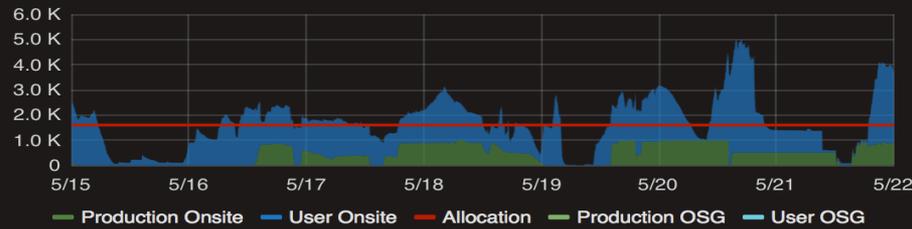
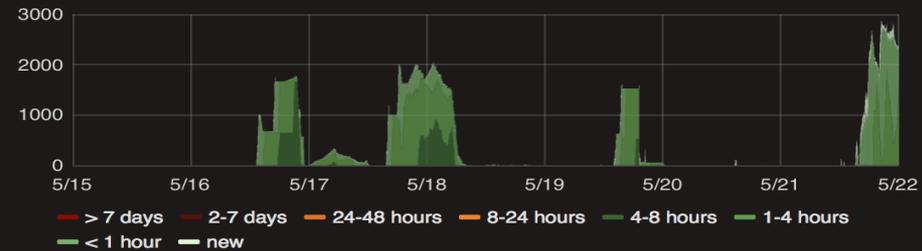
# 1678

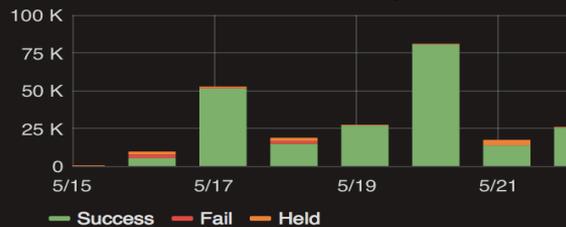
**Total Jobs Run**

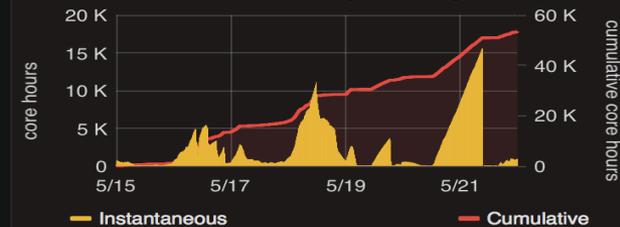
# 228533

**Average Time Spent Waiting in Queue (Production)**

# 2.066 hour

**Running Batch Jobs**

**Queued Production Jobs by Wait Time**

**Job Success Rate**

**Job Success & Failures per Day**

**Overall CPU Efficiency**

**Total Time Wasted by Running Jobs**

**New Data Cataloged**

# 6.6 TB

**Total Data Cataloged**

# 1.6 PB

- Period 05/15/2017 - 05/21/2017
- Average concurrent jobs are lower than quota
- Job success rate is good
- Overall CPU efficiency is low : production job, special MC, accessed input files on tape; calibration job accessed big size files