

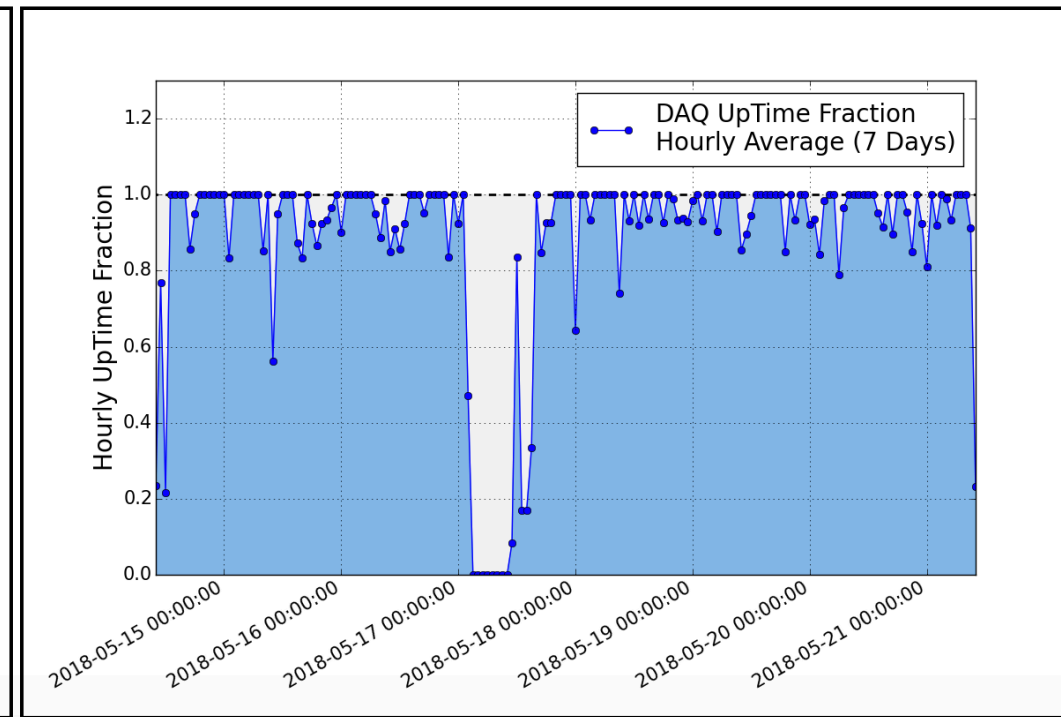
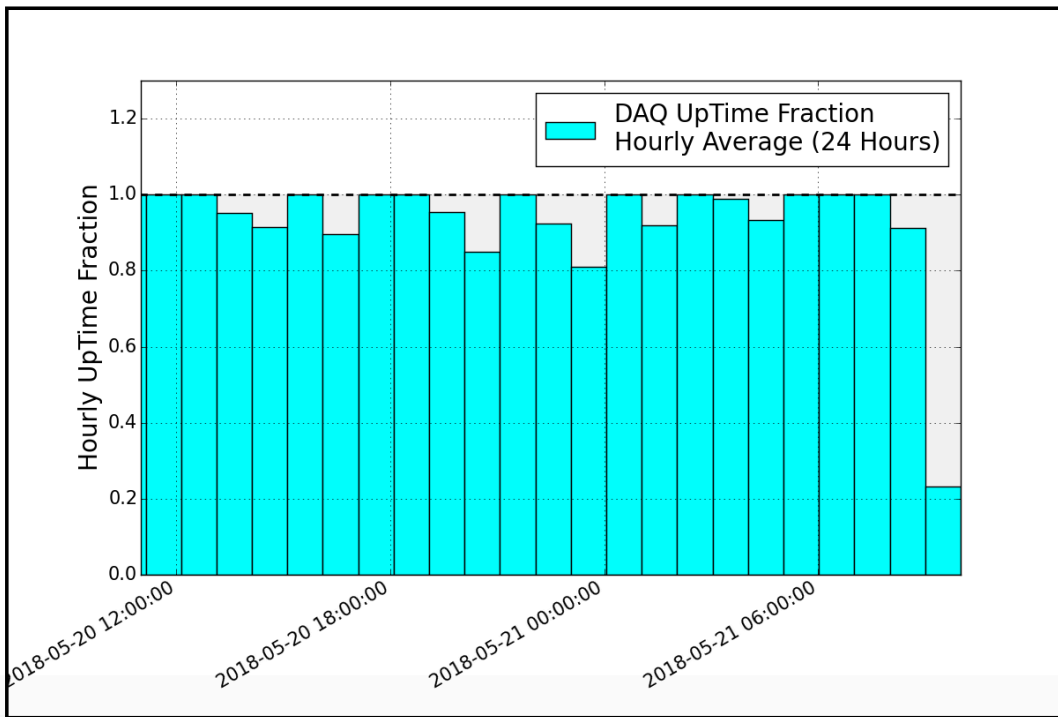
MicroBooNE Status Report

Christopher Barnes
University of Michigan
On Behalf of the MicroBooNE Collaboration

05/21/2018



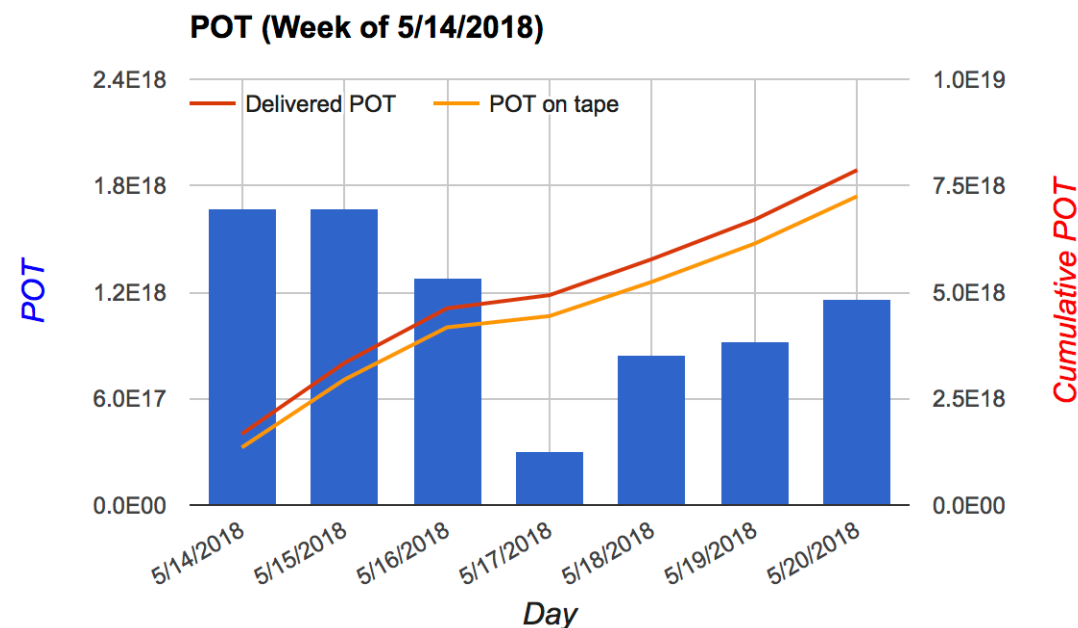
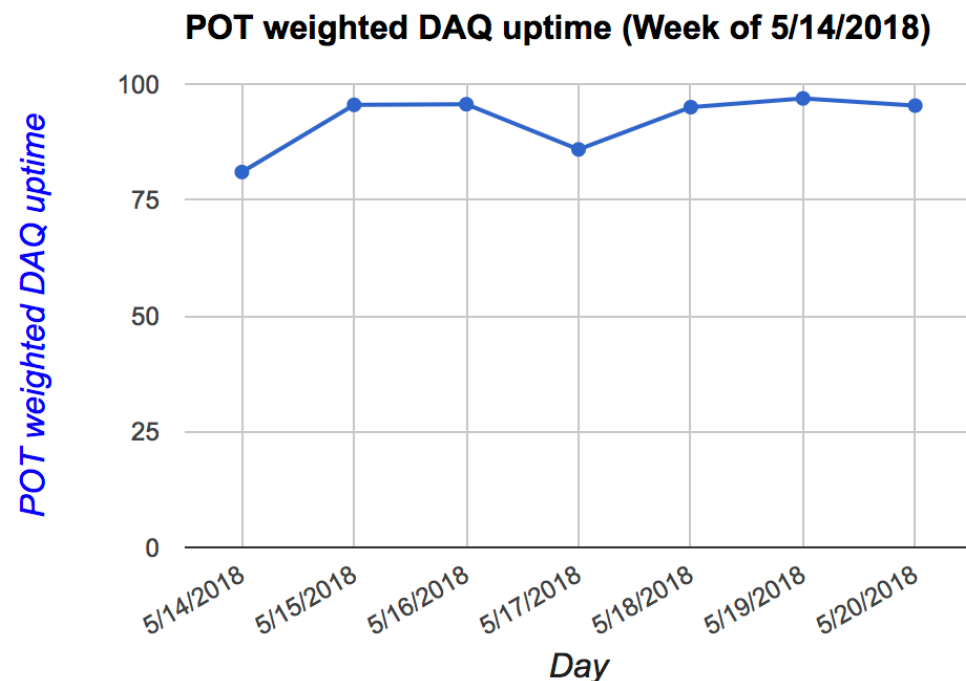
Beam Statistics/DAQ Uptime



**POT Weighted
DAQ Uptime
%:
92.2%**

**POT Delivered:
0.79e19**

**POT On Tape:
0.73e19**



**DAQ stability
has improved
after swapping
a faulty
readout card.**

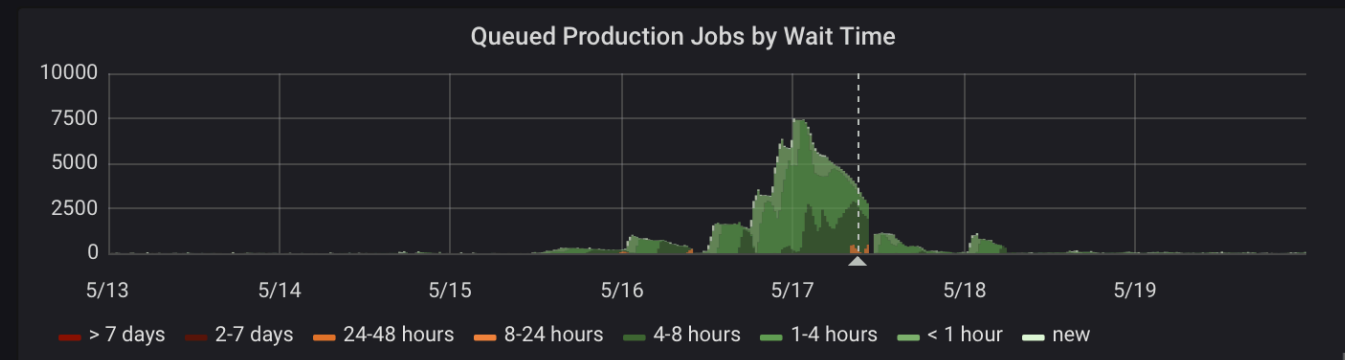
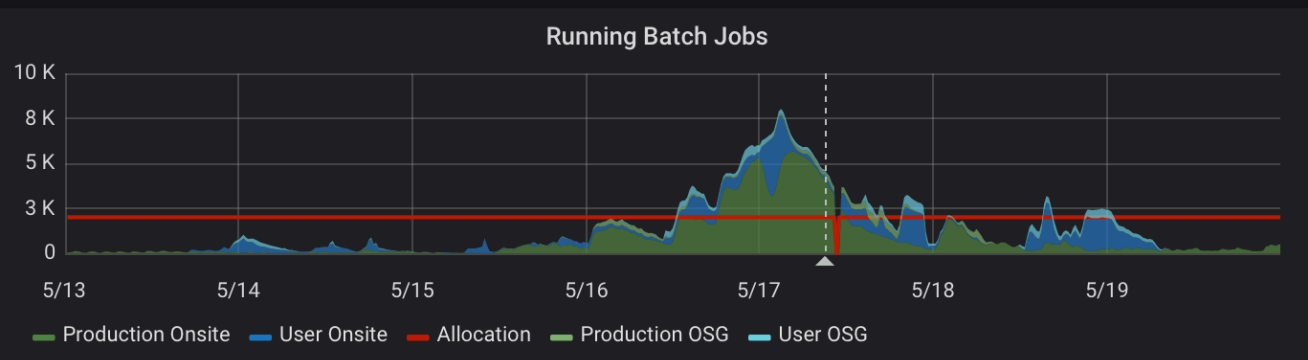
Computing Summary

1349

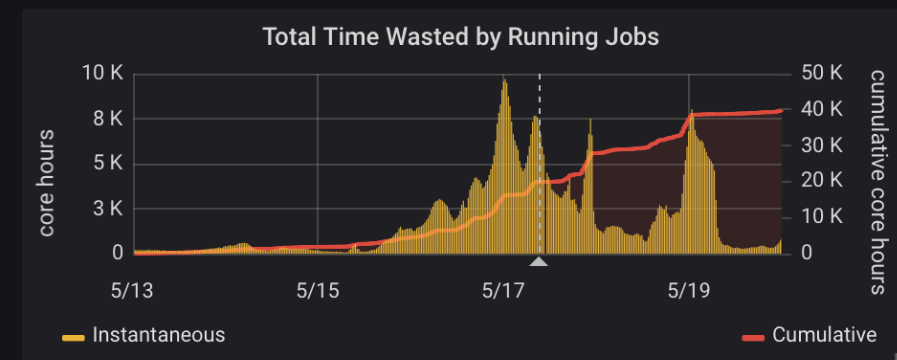
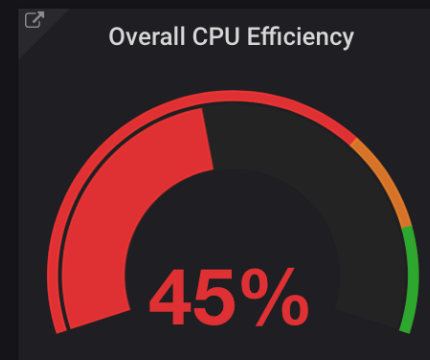
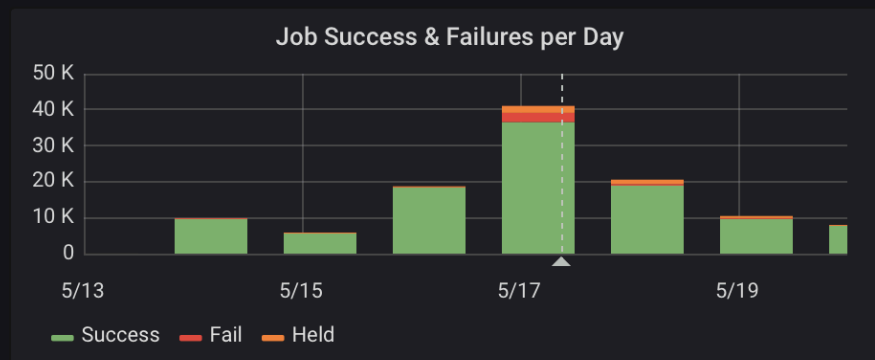
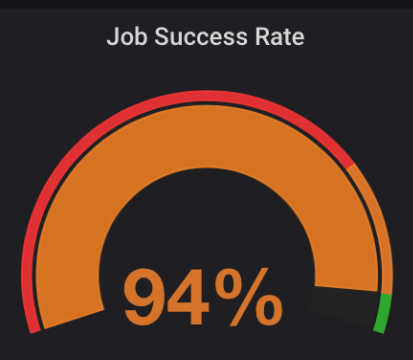
109536

47.3 min

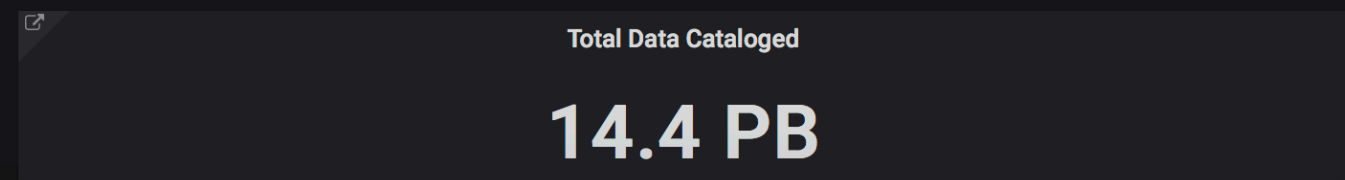
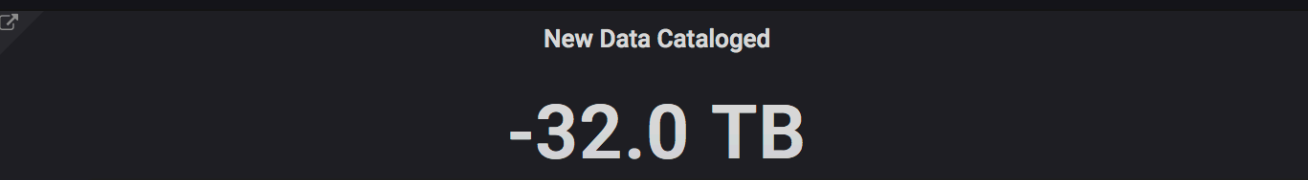
Running Jobs



Completiong and Efficiency Stats



New row



Thursday Downtime

Last Tuesday, the sump pump plumbing developed a leak at the junction of several pipes. FESS began ordering parts to repair the leak at that time.

On Thursday morning the leak intensified, spraying the UPS unit sitting next to it.

At 2:40 am on Thursday morning, we lost power to the cryo subsystem, ODH monitoring, and networking, preventing us from monitoring the detector.

At 3:30 am, we requested that the beam be turned off because we were unable to collect data.

At 6 am, we restored networking, allowing us to monitor the detector. At 8 am, we bypassed the UPS power supply and shortly after brought back the cryo subsystem. We ramped up the PMT and TPC HVs in the afternoon.



Leaking Pipe

UPS Unit

Thursday Downtime

We requested that the booster send beam at 6:30 pm. We lost 16 hours of data-taking altogether.

FESS has replaced the sump pump with a temporary pump. We are making periodic system checks. Upgraded piping is being installed and we are working to prevent this issue from happening again.

MicroBooNE would like to thank the many people across the lab that have helped respond to this event and bring the detector back up:

Carrie McGivern (ELO), Bryan Johnson (building manager), Farhan Ahmed (SLAM), Harry Ferguson, FESS personnel, Cat James, Tim Martin (PPD), Trevor Nichols, Fritz Schwartz, Mike Zuckerbrot, Maung Han (Networking), Greg Stonehocker (Networking), and Andrey Bobyshev (Networking).