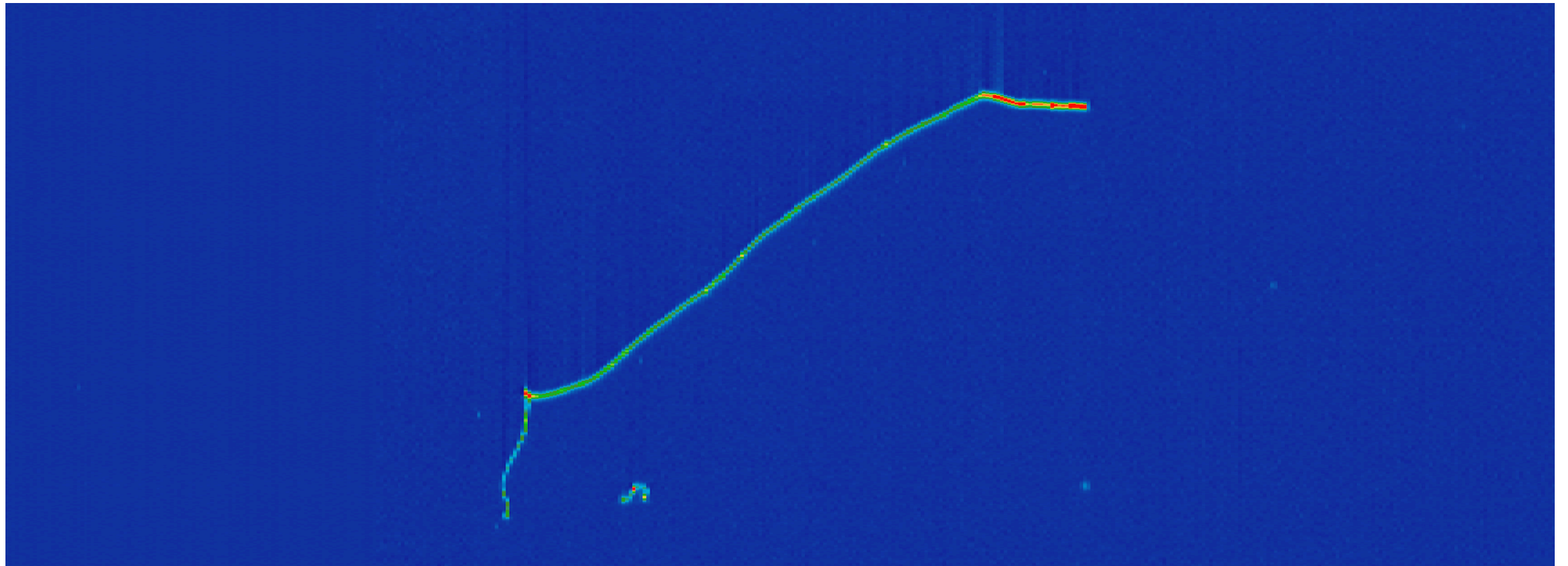




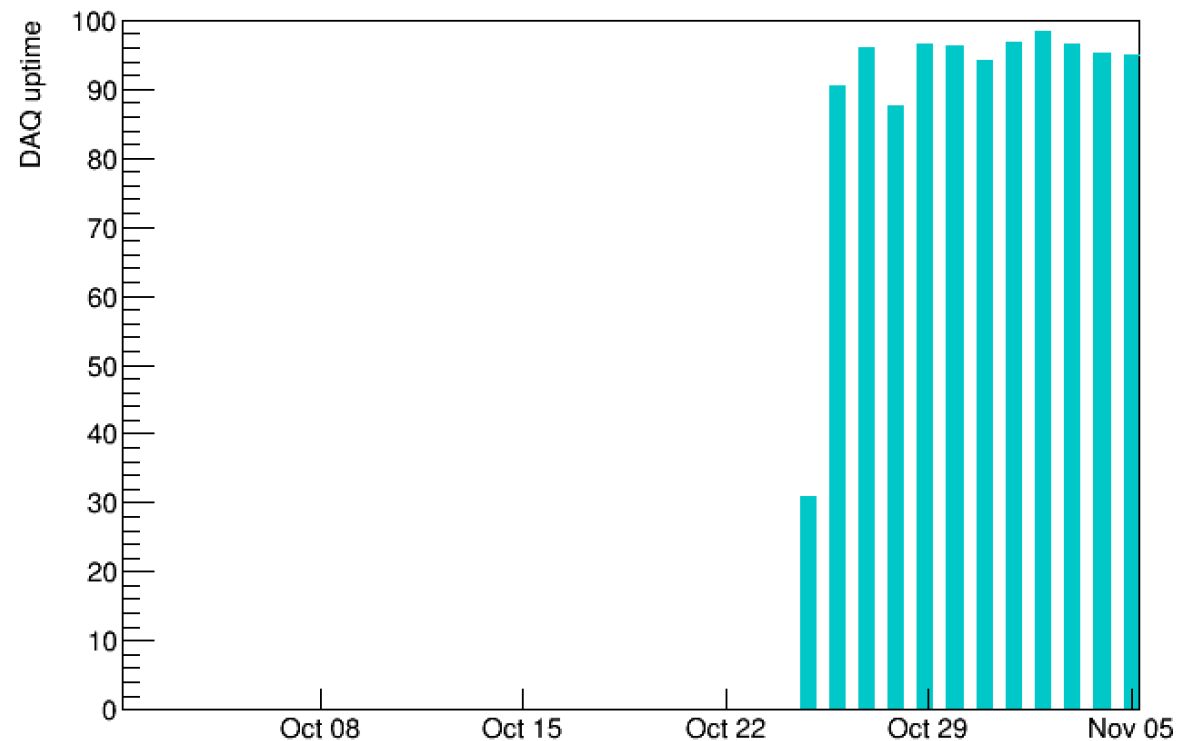
MicroBooNE Report



Žarko Pavlović & Ralitsa Sharankova
Proton Management Group Meeting

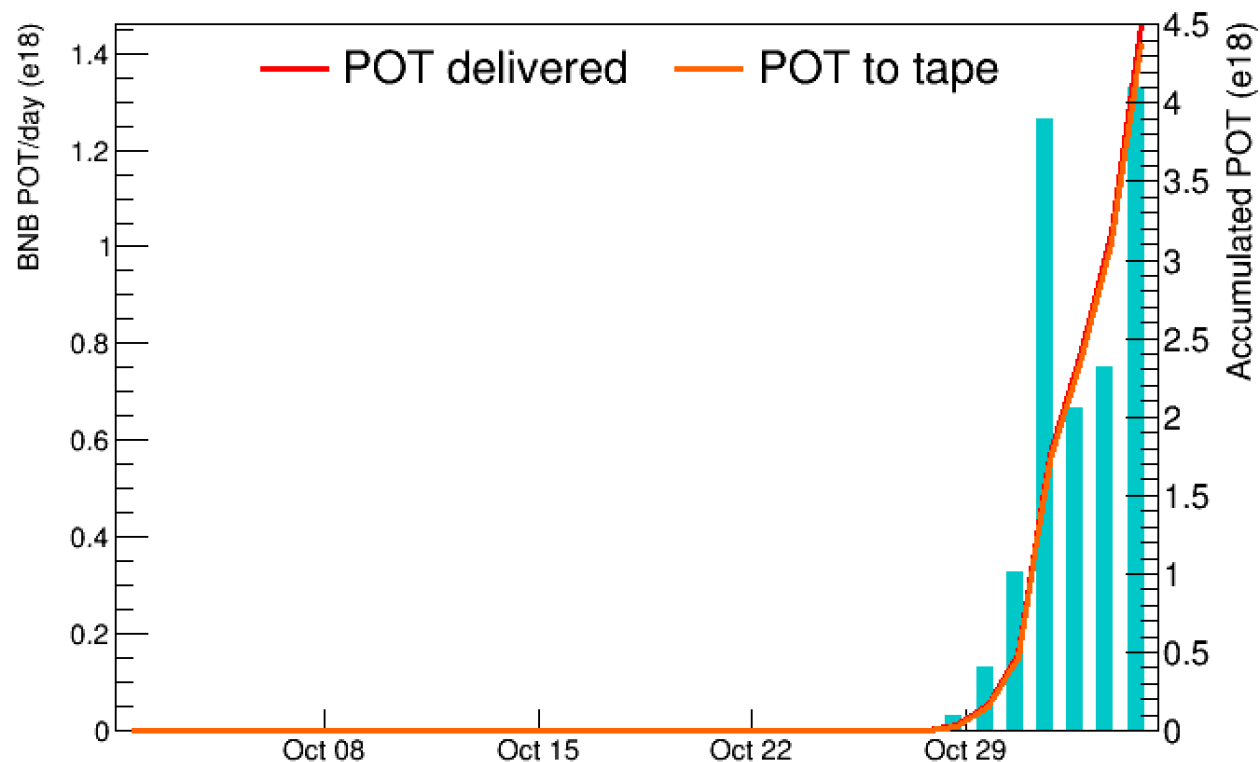
November 7, 2019

Data taking



- Detector turned on following the October 25th power outage

- **Average DAQ uptime 95%**



- POT delivered: $4.5e18$
POT on tape: $4.4e18$
Fraction recorded: 97%

Computing summary

Average Jobs Running Concurrently

2274

Total Jobs Run

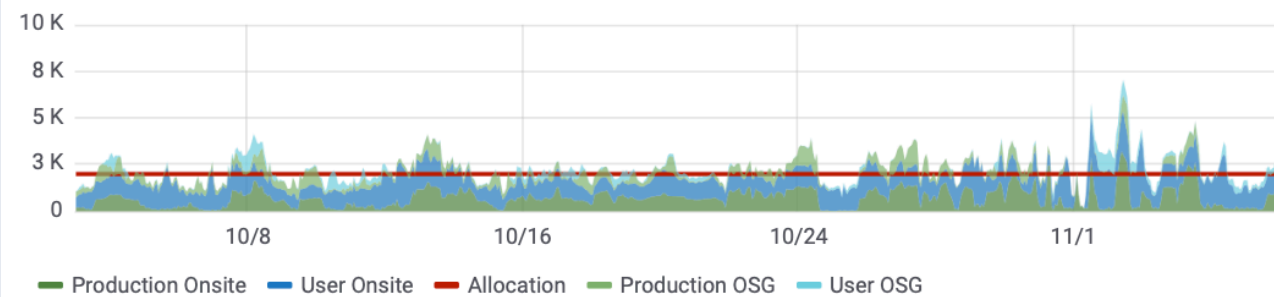
2162331

Average Time Spent Waiting in Queue (Production)

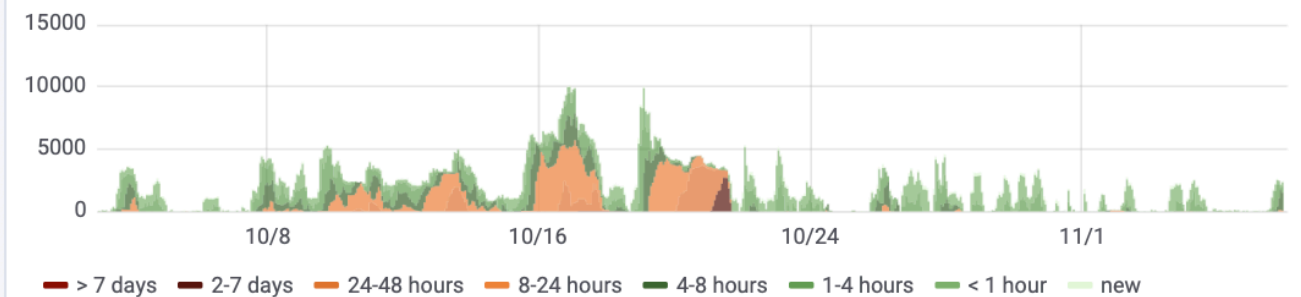
2.524 hour

Running Jobs

Running Batch Jobs

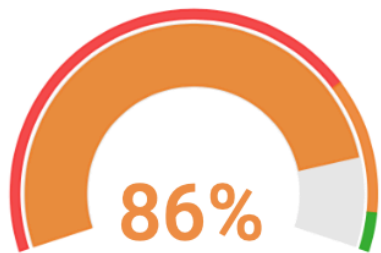


Queued Production Jobs by Wait Time

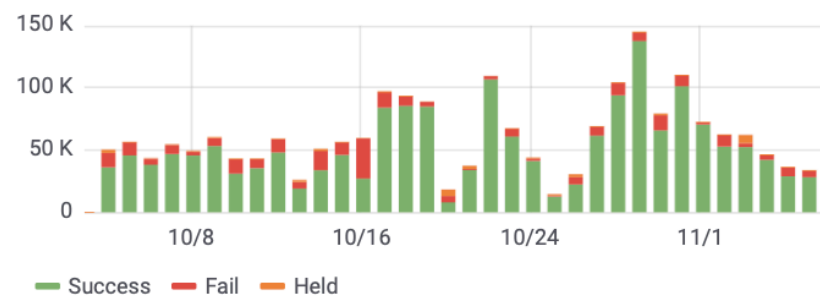


Completion and Efficiency Stats

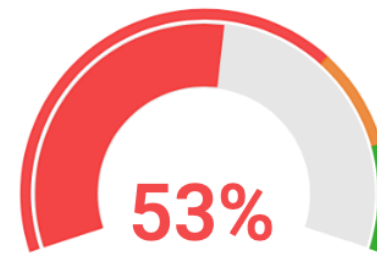
Job Success Rate



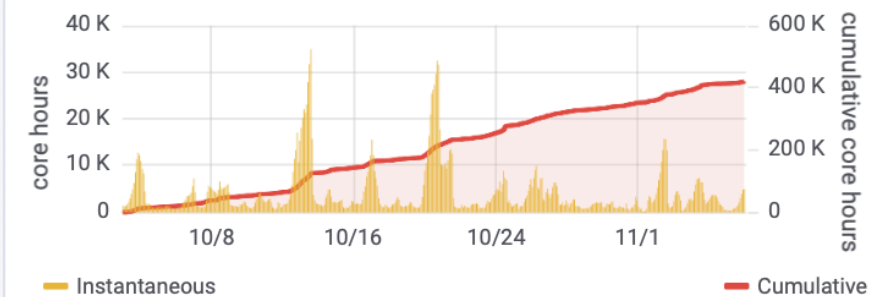
Job Success & Failures per Day



Overall CPU Efficiency



Total Time Wasted by Running Jobs



New row

New Data Cataloged

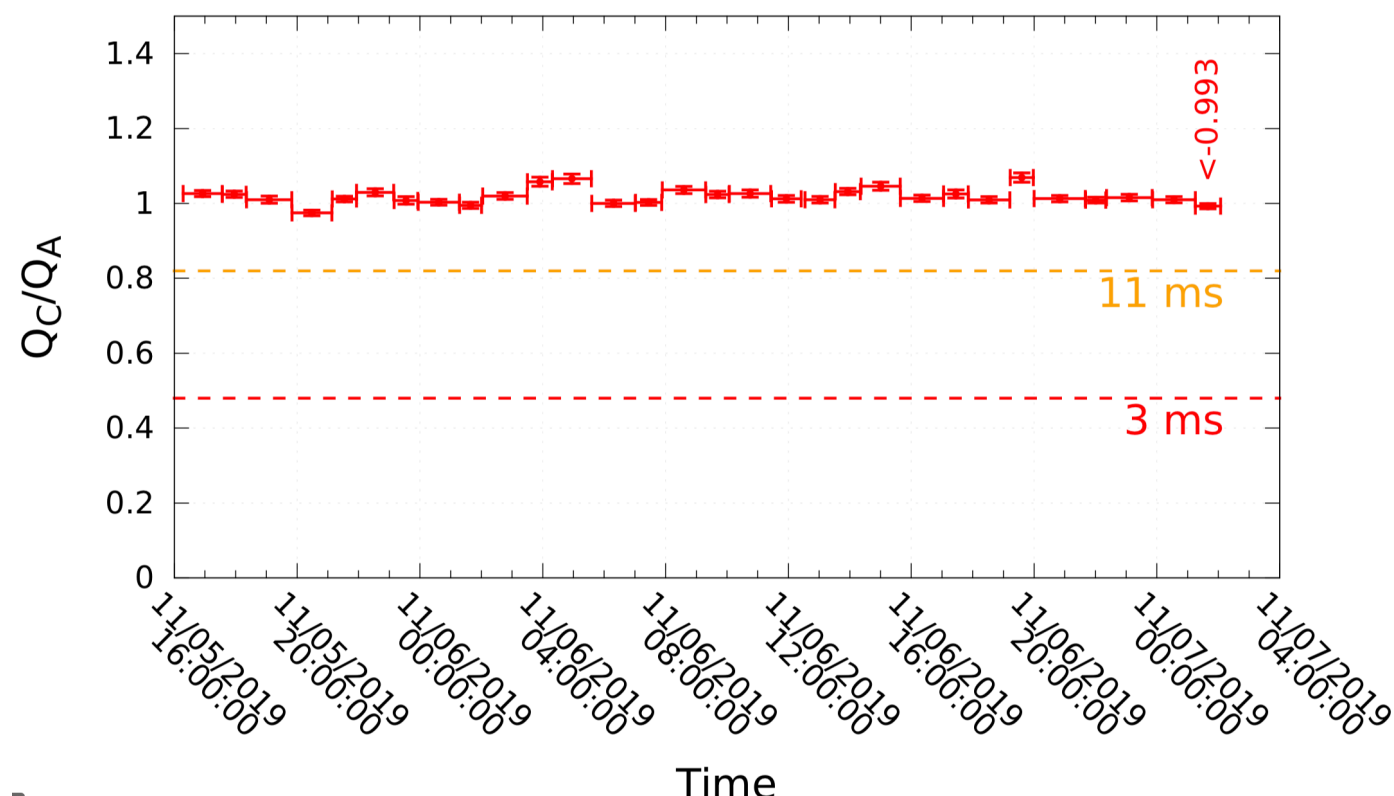
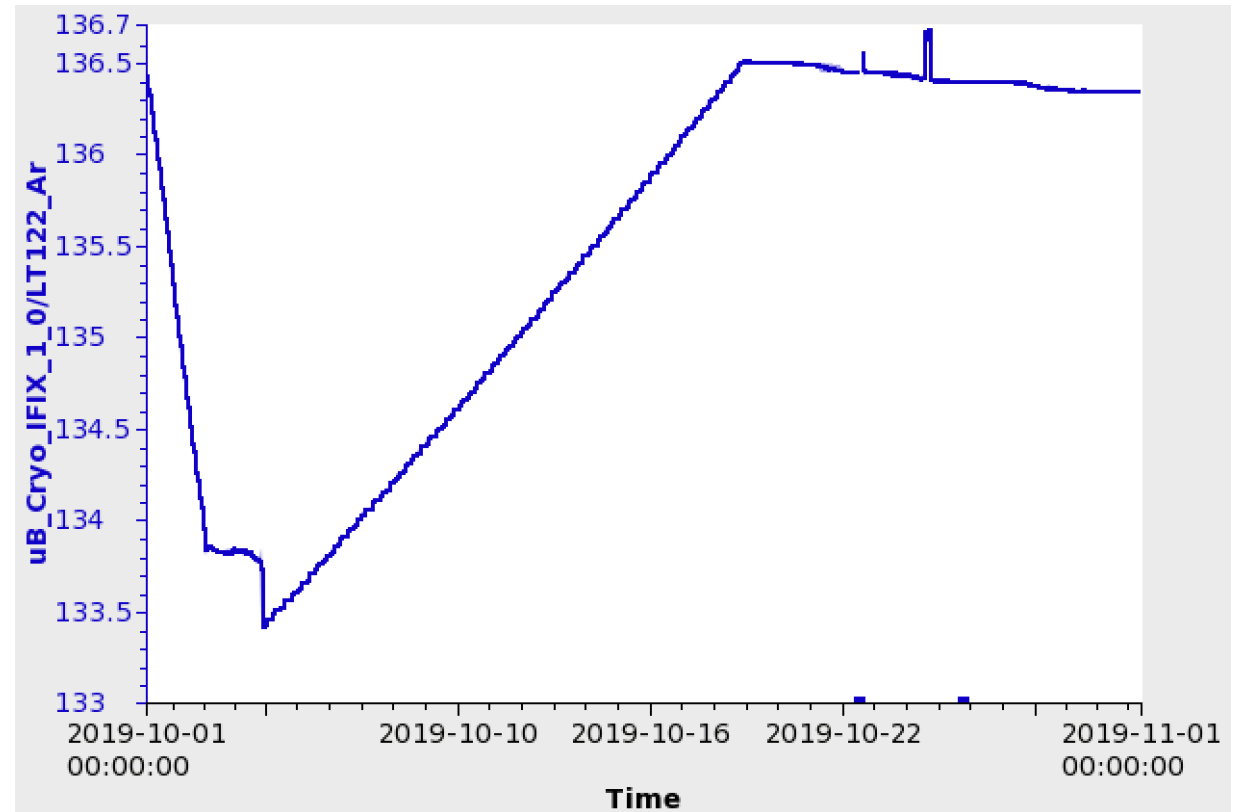
3.8 TB

Total Data Cataloged

22.4 PB

Cryo work

- Replaced leaking N2 valve (October 2nd)
- Topped off detector with LAr (October 3rd-October 20th)
- Replaced 4 ODH heads (October 23rd)
- LAr Pump 1 failed after power outage on 25th
Switched to LAr Pump 2 and in process of replacing failed pump with the refurbished one
- Purity back to normal and were ready for beam



Physics news

- New paper "Reconstruction and Measurement of O(100) MeV Energy Electromagnetic Activity from $\pi^0 \rightarrow \gamma\gamma$ Decays in the MicroBooNE LArTPC" on arXiv: 1910.02166 and submitted to JINST
- New paper "A Method to Determine the Electric Field of Liquid Argon Time Projection Chambers Using a UV Laser System and its Application in MicroBooNE" on arXiv: 1910.01430 and submitted to JINST
- Collaboration Meeting at Fermilab Oct 23-25, followed by analysis retreat week at IARC
- Upcoming analysis workshop at BNL (December 9-13)

