

MicroBooNE Status

Andy Mastbaum

University of Chicago



All Experimenters' Meeting

Fermilab

May 22, 2017

Computing Summary

Average Jobs Running Concurrently

1181

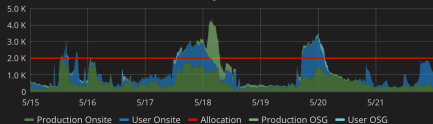
Total Jobs Run

212619

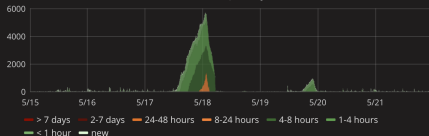
Average Time Spent Waiting in Queue (Production)

26.1 min

Running Batch Jobs



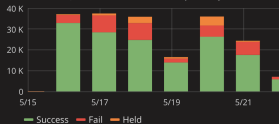
Queued Production Jobs by Wait Time



Job Success Rate



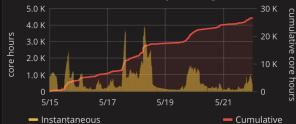
Job Success & Failures per Day



Overall CPU Efficiency



Total Time Wasted by Running Jobs



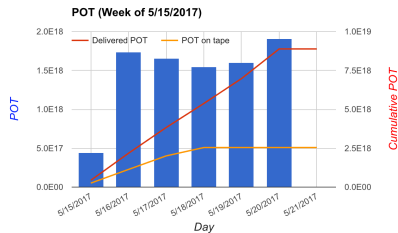
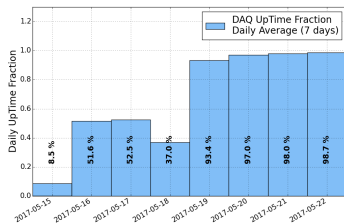
New Data Cataloged

167.7 TB

Total Data Cataloged

10.0 PB

Beam Statistics



BNB Uptime 74.1% (week of May 15)

DAQ Uptime 28.6% (POT weighted)

POT Delivered 6.4×10^{20} (0.89×10^{19} this week)

POT Recorded 6.1×10^{20} (0.25×10^{19} this week)

Summary

- ▶ Issues encountered after detector power-up Monday, May 15
- ▶ Instability observed in cryogenic system
 - ▶ Major effort from cryo team to stabilize the system
- ▶ Very high PMT trigger rates, $\sim 20 - 30$ MHz
 - ▶ Operations team is continuing to perform checks of detector subsystems
 - ▶ PMT experts and many other collaborators are analyzing PMT-only data to identify the root cause
- ▶ Drift HV and TPC systems checked out normally on Monday, but will remain off until cryo issues are resolved
- ▶ Holding daily toolbox meetings to plan and assess

The collaboration and ND cryo engineers are working closely to investigate these issues and bring MicroBooNE back online as soon as possible.