



MicroBooNE Status Report

Xiao Luo
Yale University

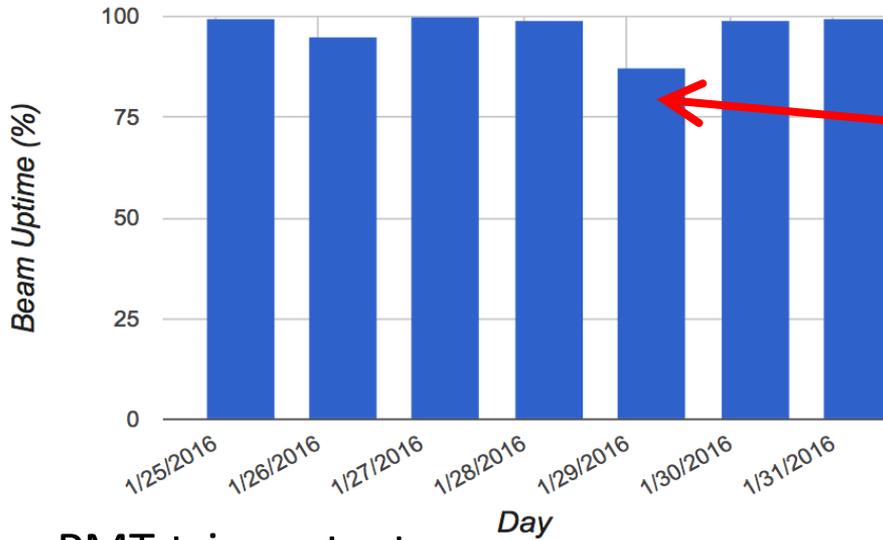
All Experimenters' Meeting
February 1st, 2016

Software PMT Trigger

- **Problem:** large data rate keeping all beam events.
- **Solution:** trigger only on events with light activity in beam-spill window.
- **Method:** trigger if light from PMTs above threshold in the beam window; decision is made in the DAQ (software PMT trigger).
- **When:** implemented last Friday(01/29)! (milestone)
- **Status:** current trigger rate is about **half** of the rate before. Expect lower rate when PMT trigger is fully commissioned.

Beam Vs. DAQ Uptime

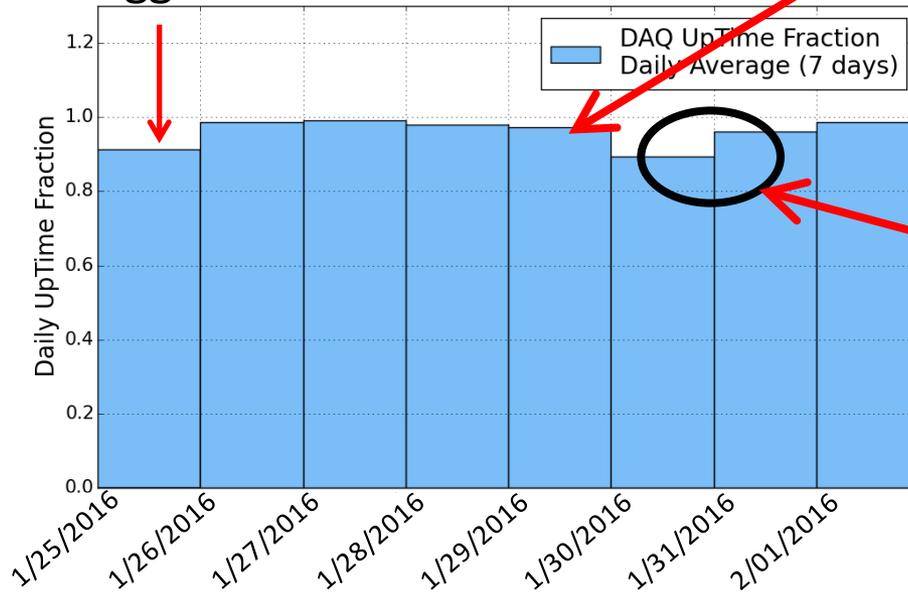
Beam Uptime (Week of 1/25/2016)



Beam down for 2 hours on Friday night. (01/29)

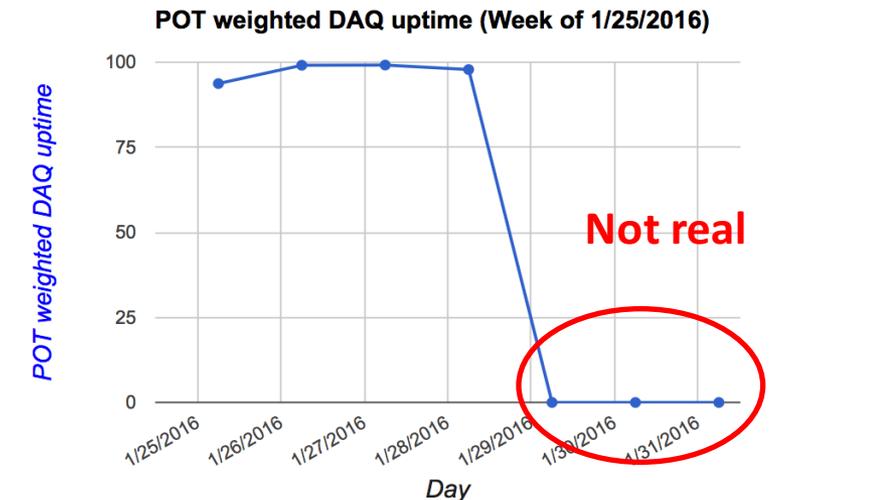
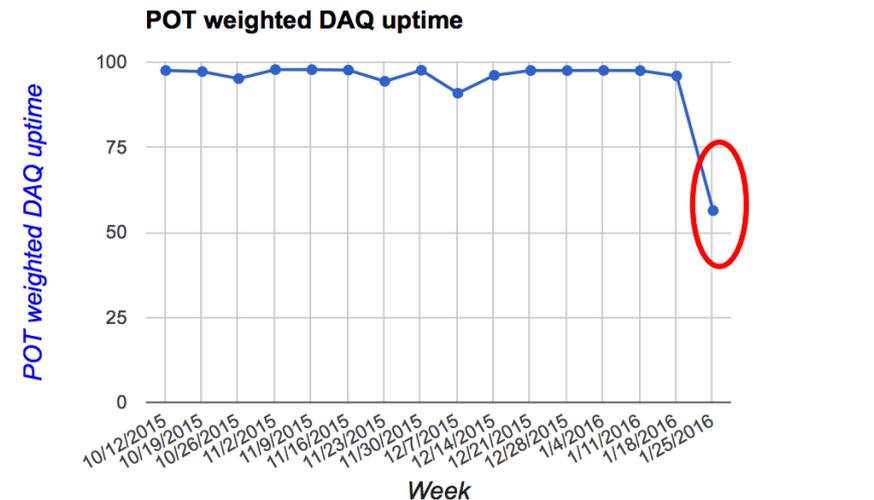
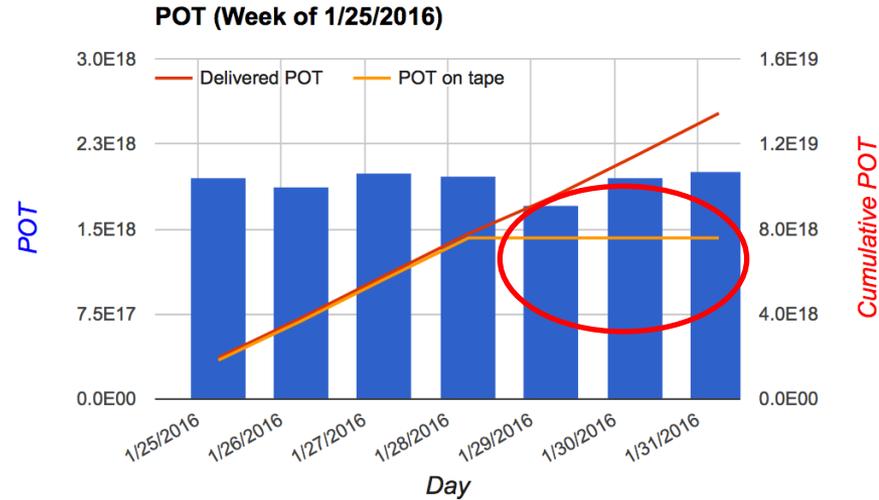
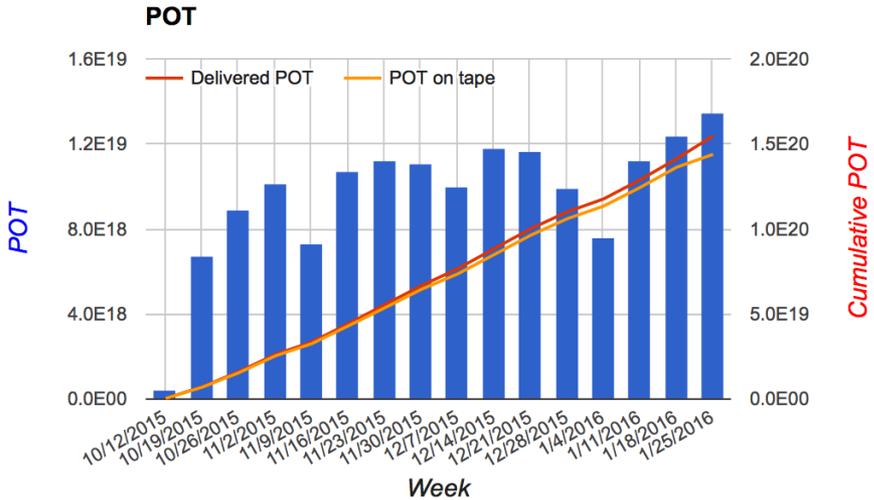
PMT software trigger is online since Friday afternoon. (01/29)

PMT trigger tests



More crashed runs cause the lower DAQ uptime on 01/30 & 01/31 (partial)

POT on Tape



POT weighted DAQ uptime plots have some technical problem after PMT trigger; will update next week. Average of first 4 days is 97.5%.

Summary

- PMT software trigger was implemented this past Friday (01/29), data rate is lowered!
- Stable beam from BNB; POT weighted DAQ uptime is 97.5%. (first 4 days)
- Observed more crashed runs that lower DAQ uptime, recovered on Sunday.
- Updated POT weighted DAQ uptime is coming next week.