



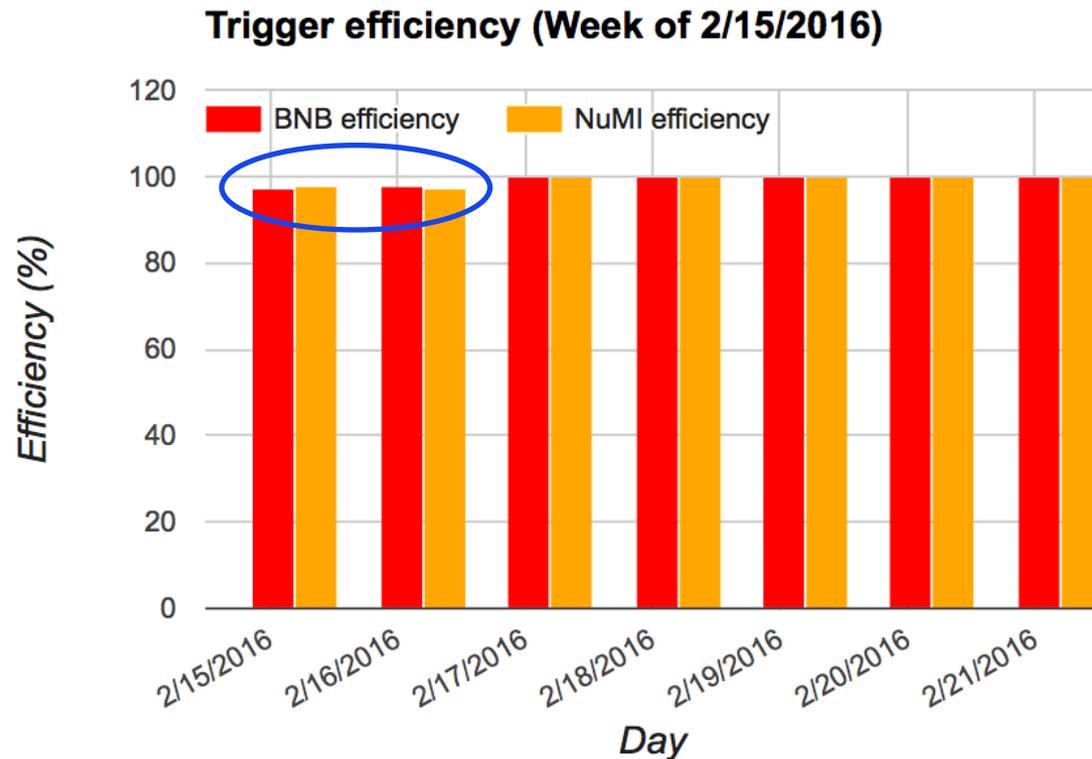
MicroBooNE Status Report

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Yale University

All Experimenters' Meeting
February 22nd, 2016

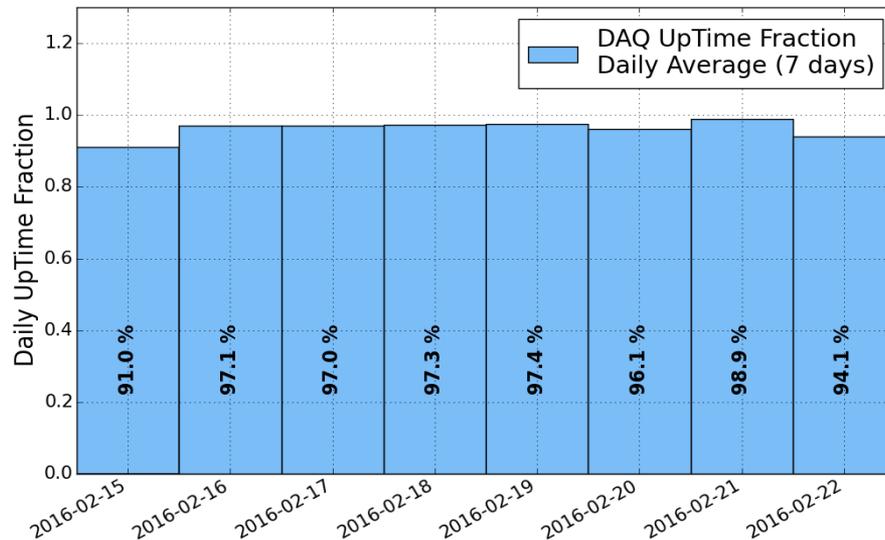
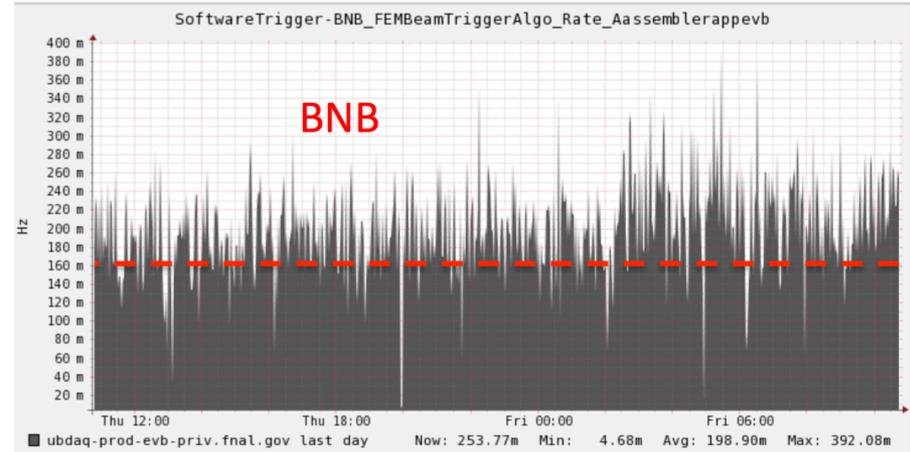
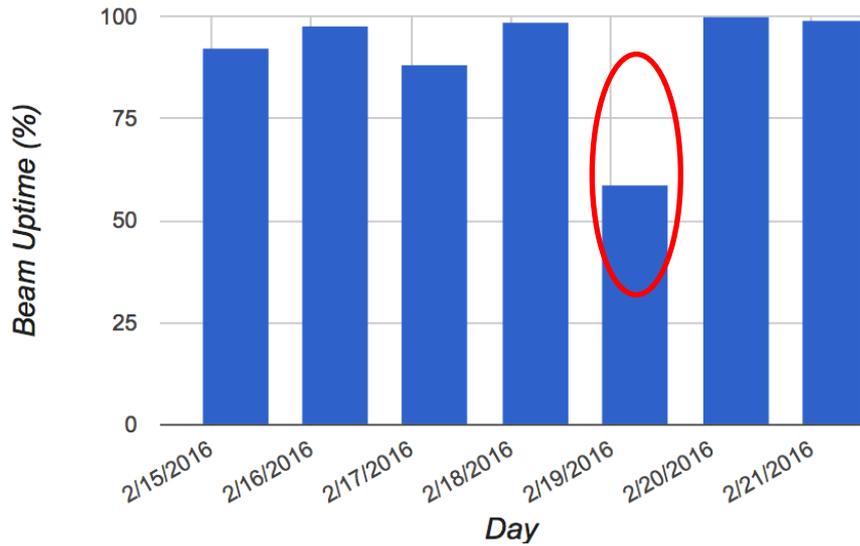
Beam Trigger inefficiency

- After implementing the software tight trigger cocktail, hardware beam trigger inefficiency increased from 0.3% to 3%.
- Inefficiency is correlated with the EXT trigger (pulser-based trigger) rate, which is increased when tight trigger applied.
- Increasing the beam veto size fixed the problem, efficiency now is ~99.99%. (Last Tue. 02/16)



Beam Vs DAQ Uptime

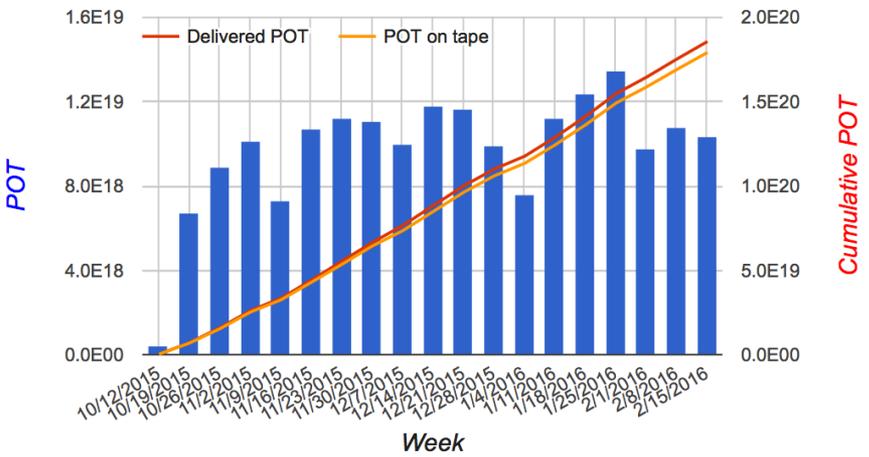
Beam Uptime (Week of 2/15/2016)



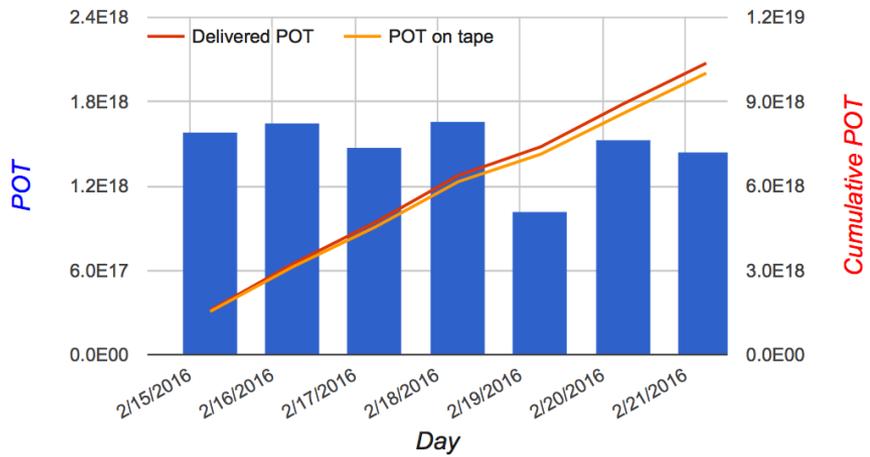
- Beam down on 02/19 (Fri.)
- Smooth data taking, high DAQ uptime.
- PMT software trigger rates as expected. Rate Monitor is in place.

POT on Tape

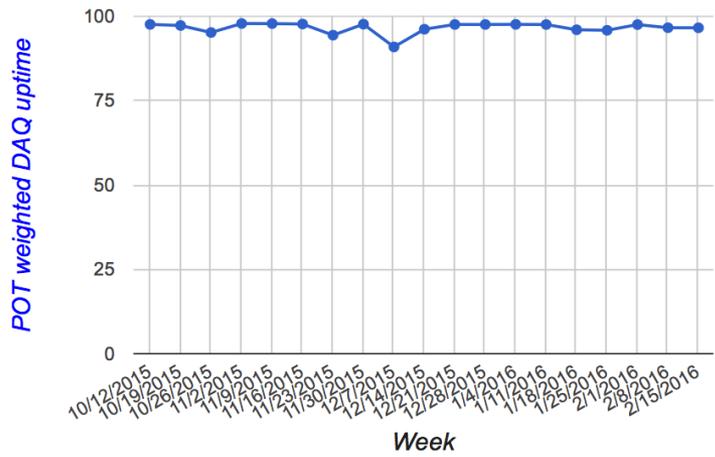
POT



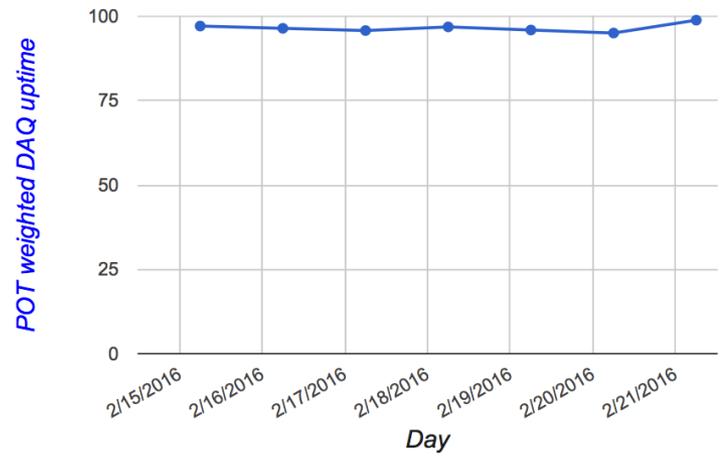
POT (Week of 2/15/2016)



POT weighted DAQ uptime



POT weighted DAQ uptime (Week of 2/15/2016)



Average POT weighted DAQ uptime: 96.5%

Summary

- Beam trigger (Hardware) inefficiency decreased from 3% to $<0.01\%$.
- Tight software PMT trigger is constantly monitored on shifts.
- Continuously good POT weighted DAQ uptime 96.5%