

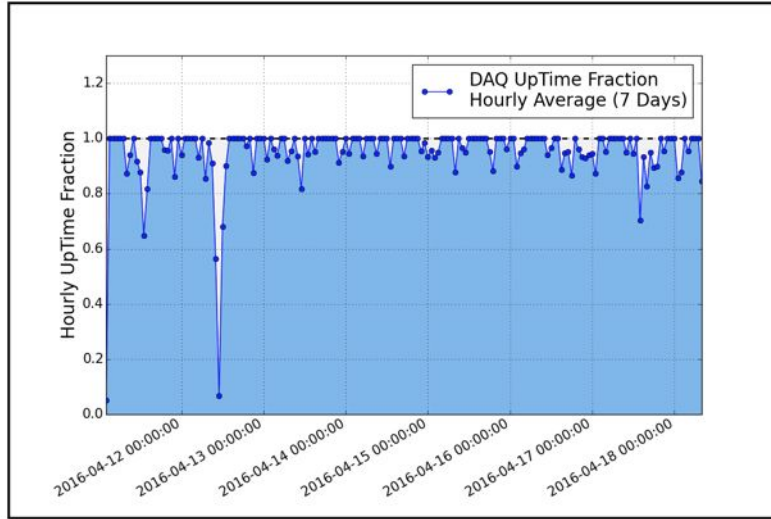
# MicroBooNE Update

All Experimenters' Meeting - 4/18/2016

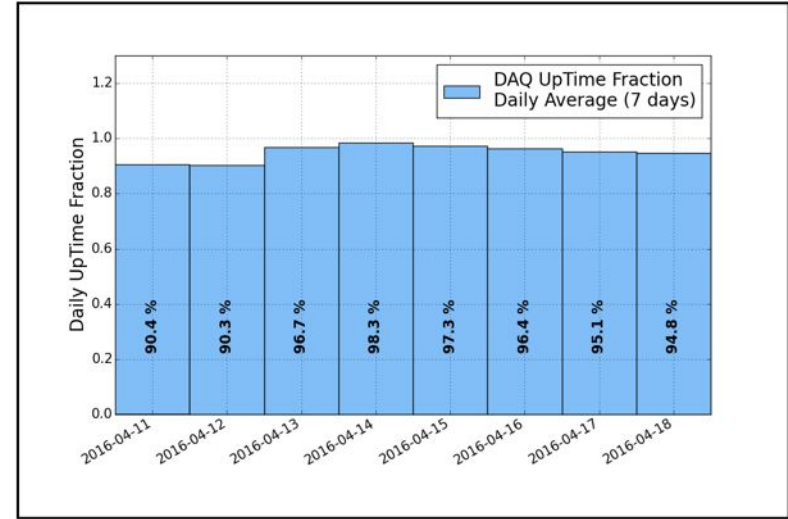
Matt Bass



# DAQ Uptime



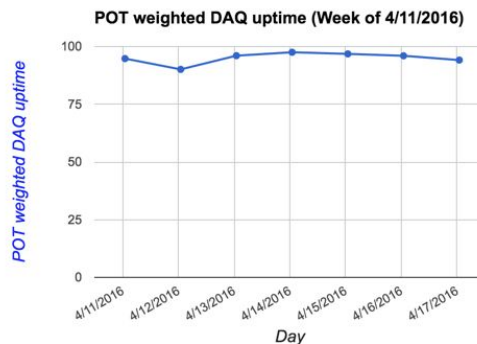
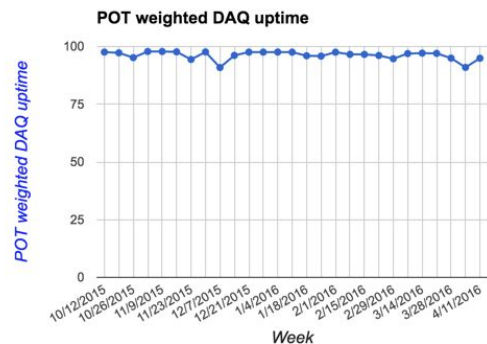
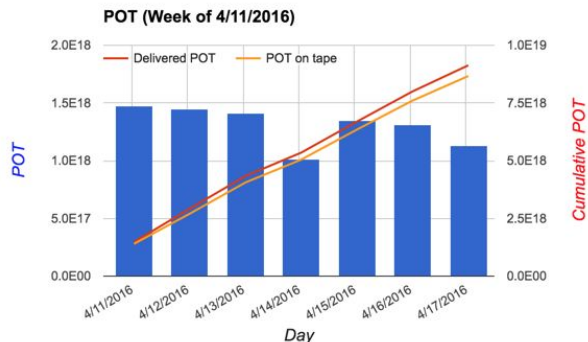
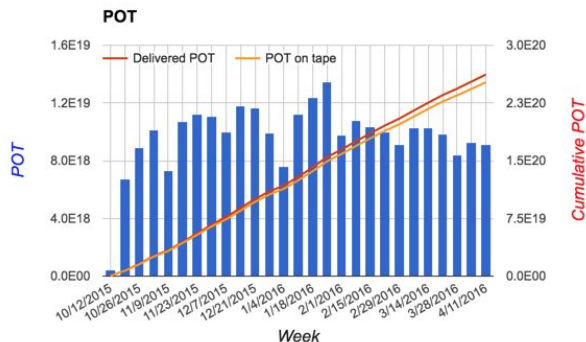
DAQ UpTime (Hourly, Past Week)



DAQ UpTime (Daily, Past Week)

- DAQ uptime ~95% for the past week
- Short downtimes on Monday/Tuesday for PMT work

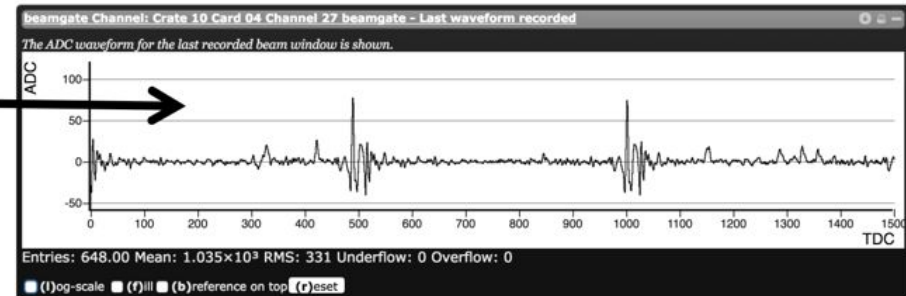
# POT Delivered & POT Recorded



- Weekly POT **delivered** 0.91e19
- Weekly POT **recorded** 0.87e19
- 95% POT weighted uptime for week of 4/11

# PMT issue

- Increased trigger rate was noticed last weekend
  - Trigger formed based on PE/PMT threshold
- **Hot PMT** visible in online monitoring
  - Repeated waveform on PMT readout



# PMT & Other Work

- Fixed by switching channels on PMT's HV supply
  - PMT HV channel was switched on Monday
  - Still investigating reason for this waveform feature; these HV power supplies were recycled from D0 and are known to have some stability issues
- To catch issues like this one more quickly next time
  - **Automated** rate/gain checks on PMT readout
  - Slow control **alarms** on software trigger rates; more in development
  - **Shifter checklist** now includes hot PMT check
- Used downtime for PMT work to also swap Microsemi **GPS** card with spare
  - Updated firmware