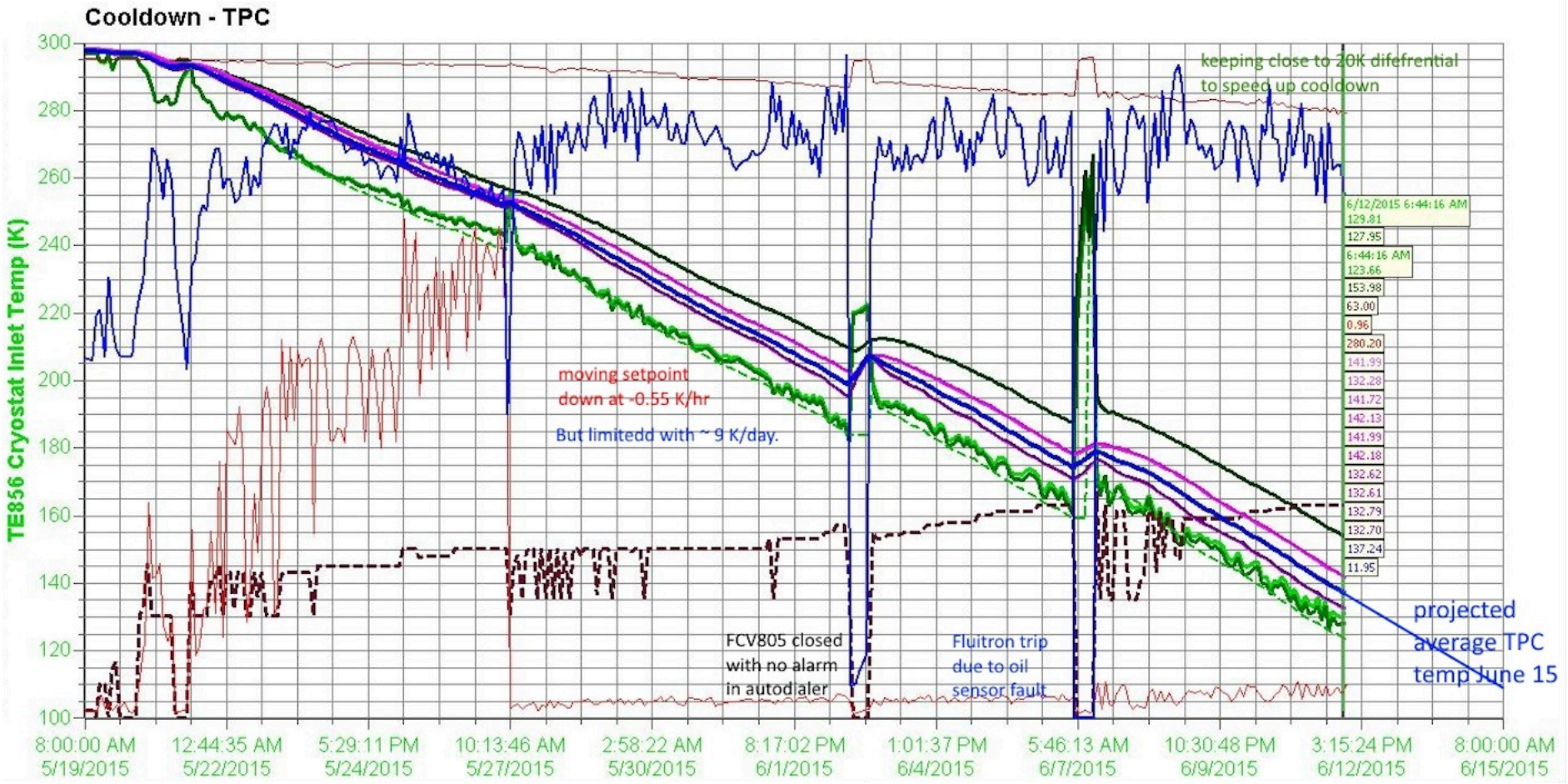
MicroBooNE Status

Bruce Baller - Fermilab

June 15, 2015

Cryostat cool-down

May 19 – June 12

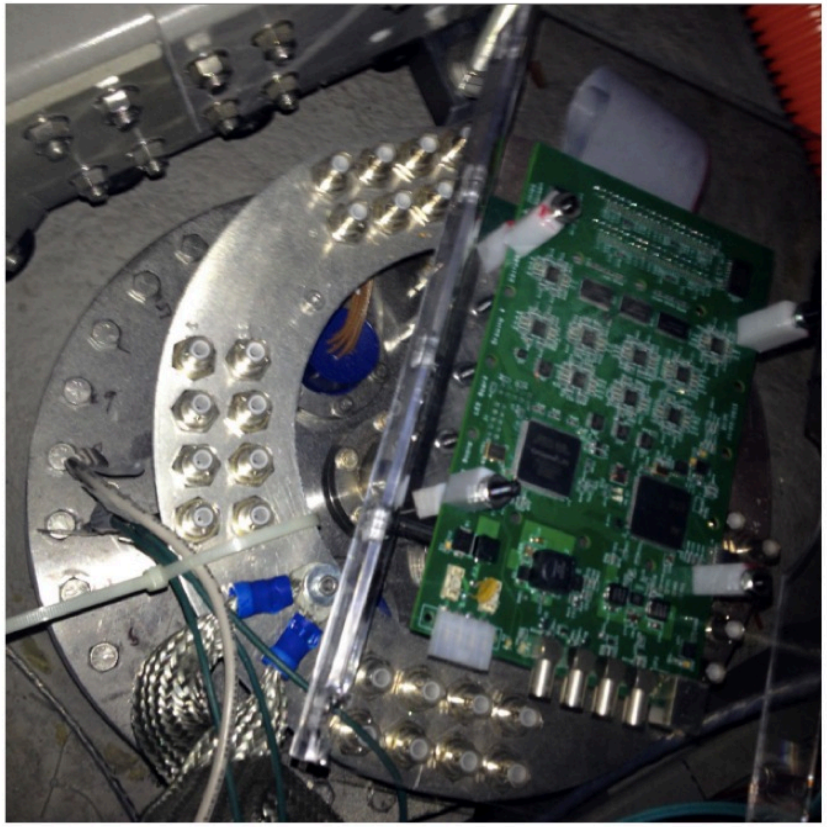


Status and Plans

- Average detector temperature 115K this morning
- Liquid argon delivery starts next Monday
  - M, W, F schedule of 10 deliveries → 3+ week duration
- Investigating the possibility of starting the fill later this week

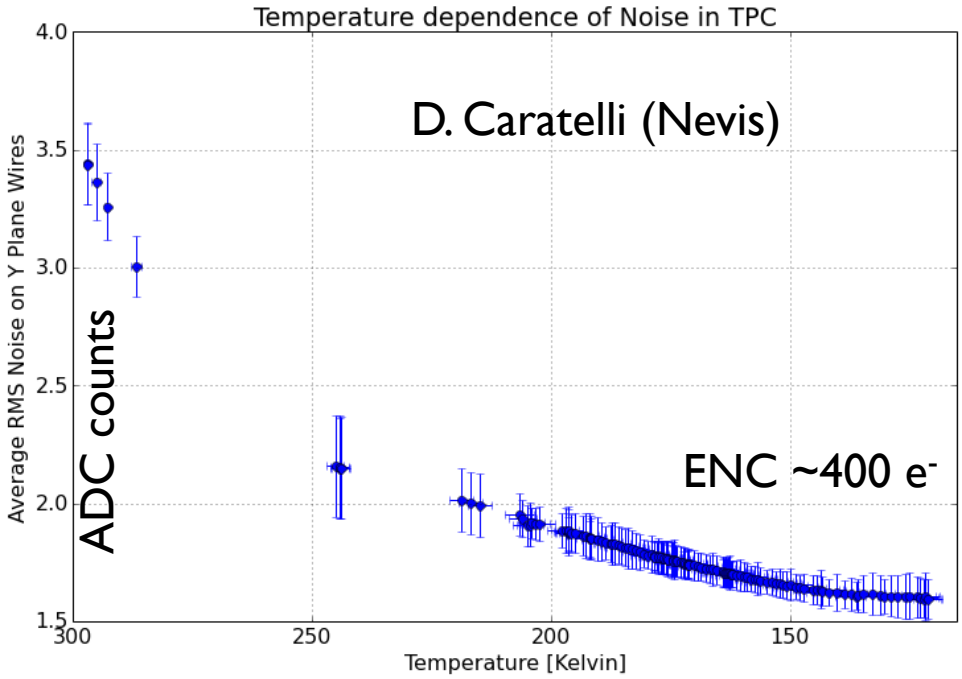
Installation work

- Muon telescope system installed Wed – Thurs with ORC on Friday morning
- LED flasher system for PMT installed Friday

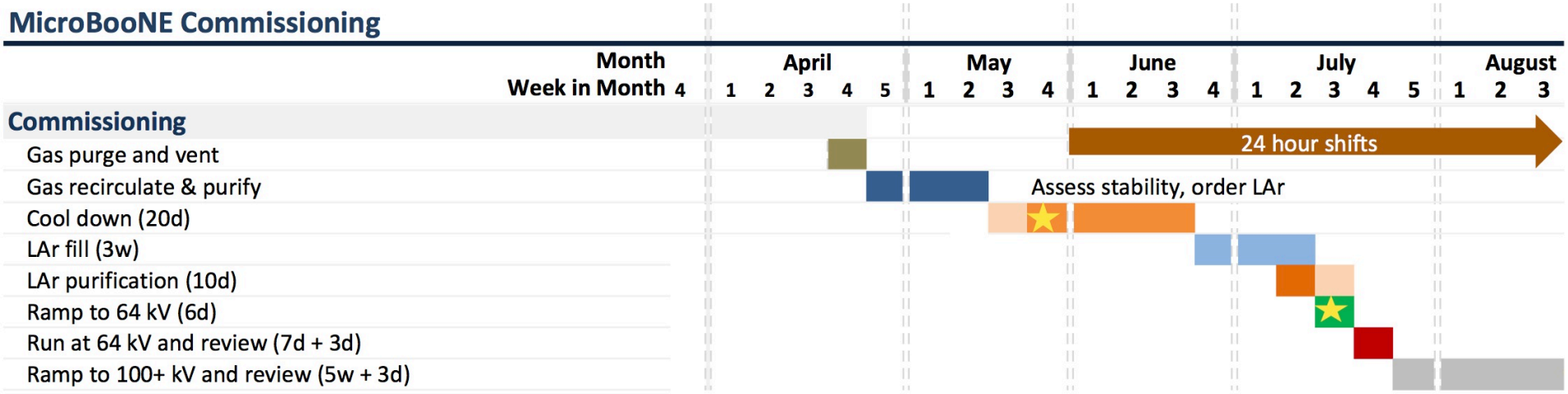


DAQ, Noise Runs & Analysis

- Testing the lossless data compression scheme – 3X at the current noise level
- Two noise runs/shift
- DAQ is running stably with the latest code release
- Expect significant reduction in in-cryostat FE electronics noise when cooling down from 300K to 90K
- Current noise on non-noisy channels →
- Expect 50% increase w LAr
- Set of known noisy channels is stable



Schedule


MicroBooNE Commissioning
Month
April
May
June
July
August
Week in Month 4 1 2 3 4 5 1 2 3 4 1 2 3 4 1 2 3 4 5 1 2 3
Commissioning
Gas purge and vent
Gas recirculate & purify
Cool down (20d)
LAr fill (3w)
LAr purification (10d)
Ramp to 64 kV (6d)
Run at 64 kV and review (7d + 3d)
Ramp to 100+ kV and review (5w + 3d)
24 hour shifts
Assess stability, order LAr