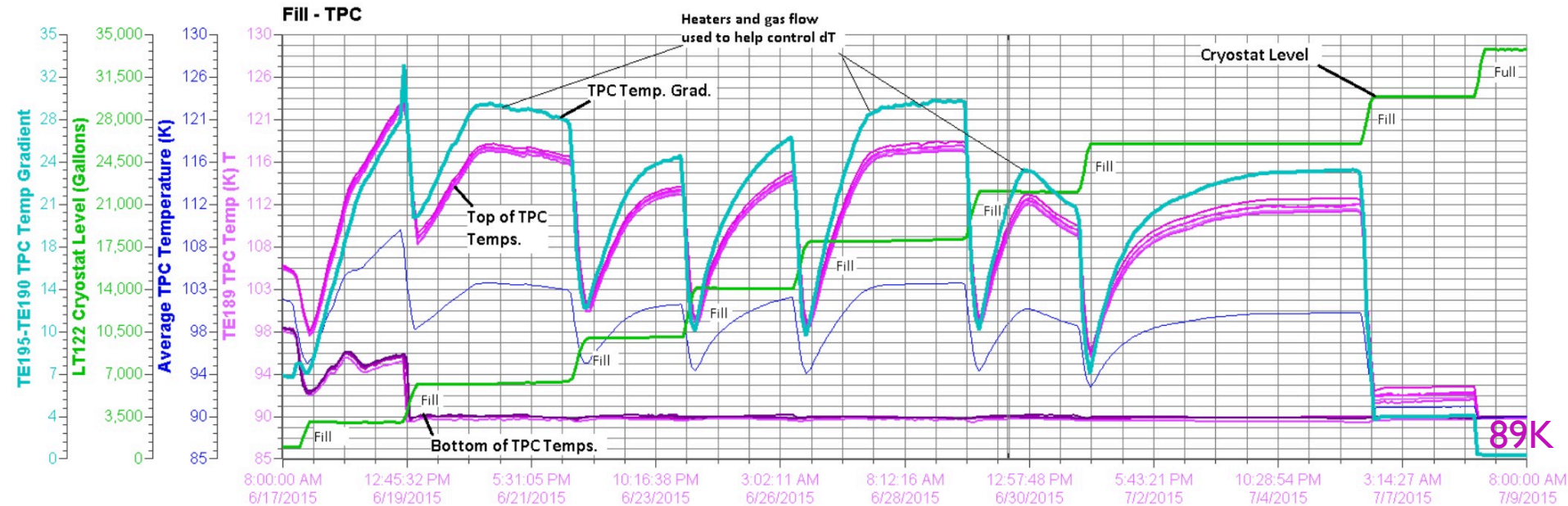




MicroBooNE Status  
*Bruce Baller - Fermilab*

August 3, 2015

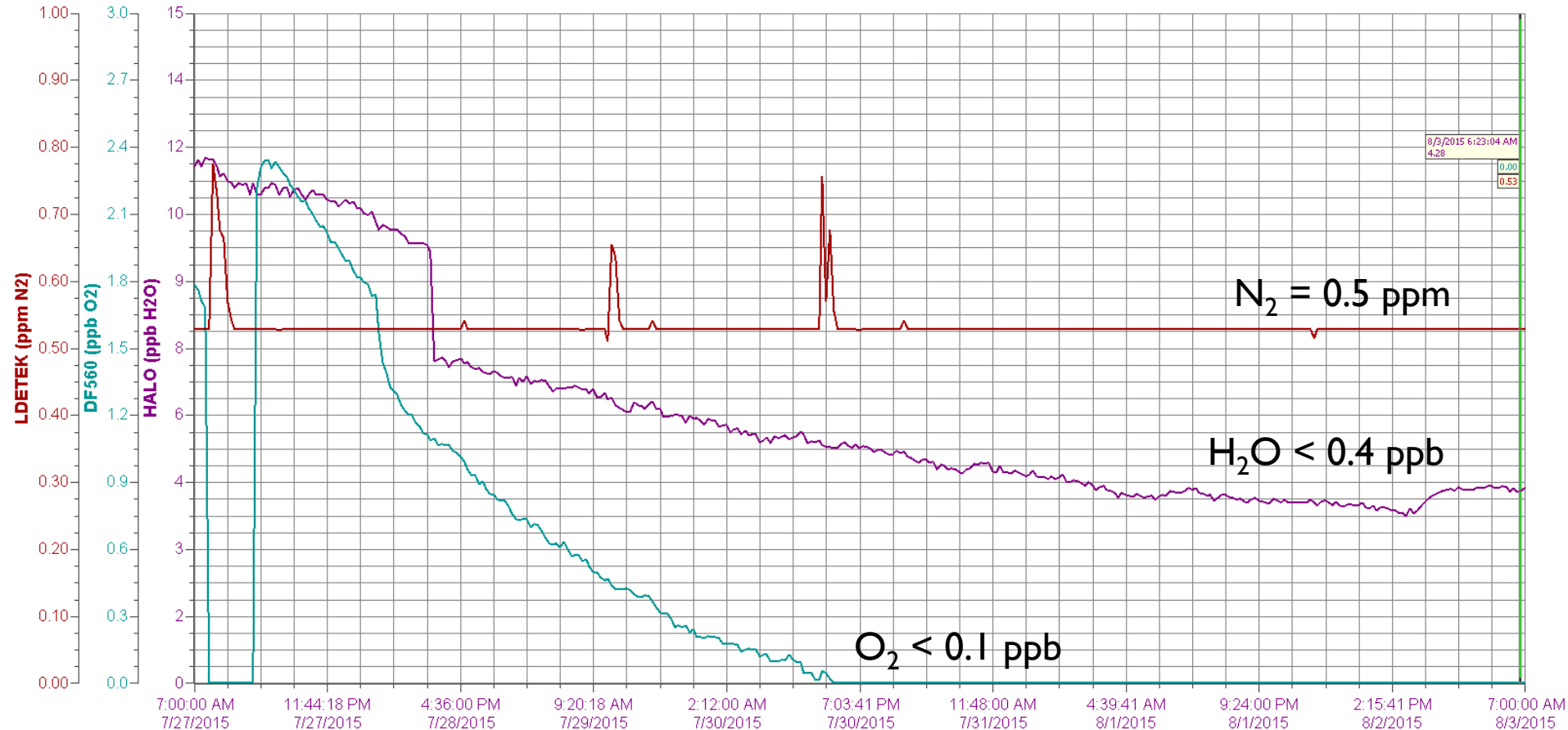
# Cryostat LAr Level & TPC Temperature



June 17

July 8

# LAr Contamination



Value	Pen Name	Description
4.3	HALO (ppb H2O)	High sensitivity H2O (F_CV)
0.00	DF560 (ppb O2)	High sensitivity O2 (F_CV)
0.5	LDETEK (ppm N2)	High sensitivity N2 (F_CV)

Start LAr pumps + purification July 27

7 AM this morning

# Status

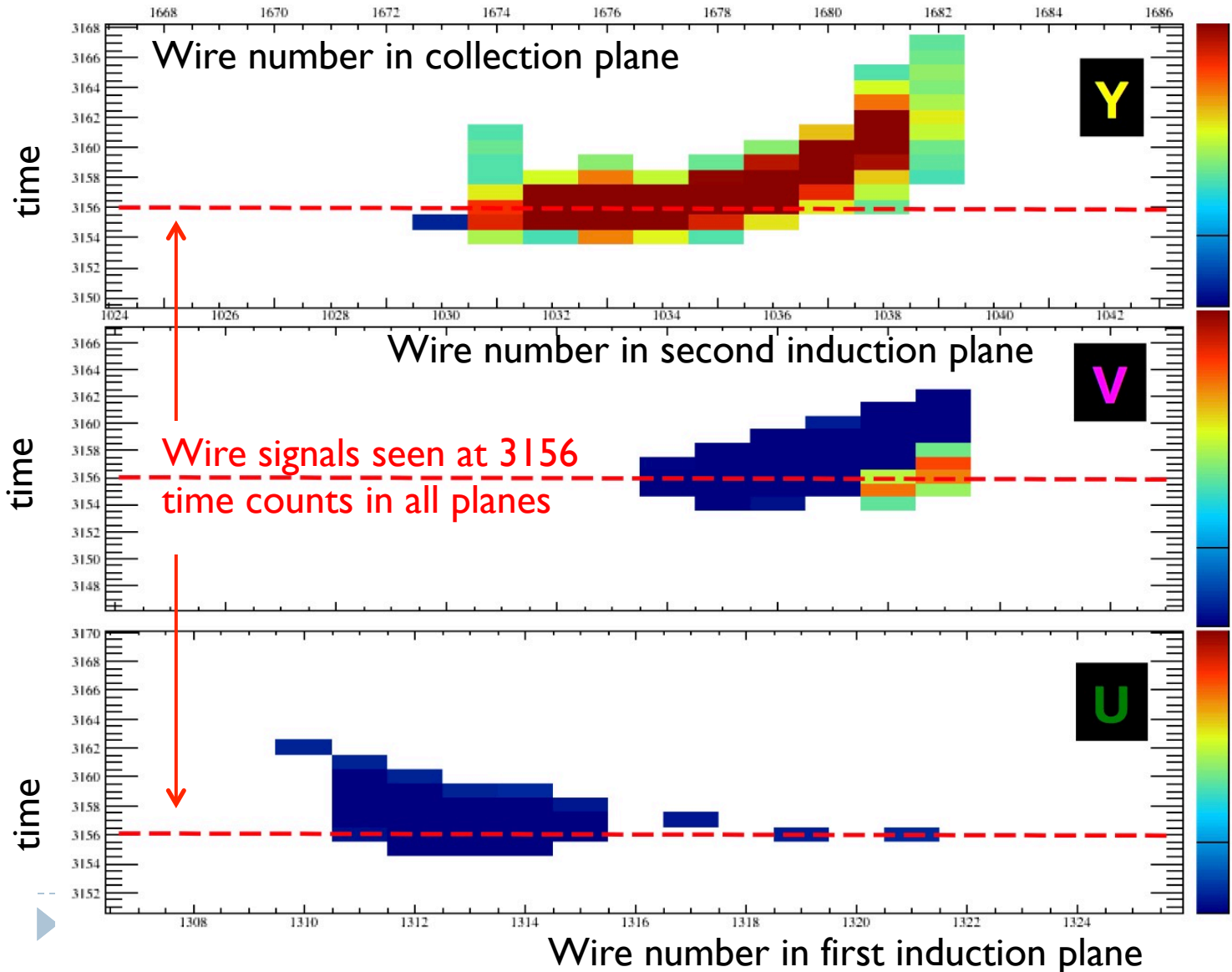
---

- ▶ Drift HV ramped to 10 kV
- ▶ Investigating noise in the in-cryostat LAr purity monitors
  - ▶ In-line purity monitor commissioning today
- ▶ **New features on the TPC wire readout**
  - ▶ Many channels seem to be in the low-gain low-shaping time mode in one feedthrough
  - ▶ Noise on a subset of channels on another feedthrough have a lower than expected noise RMS
- ▶ Ongoing checkout of the PMT trigger
- ▶ DAQ ~frozen for upcoming “dress rehearsal”

# Tracks seen in the TPC

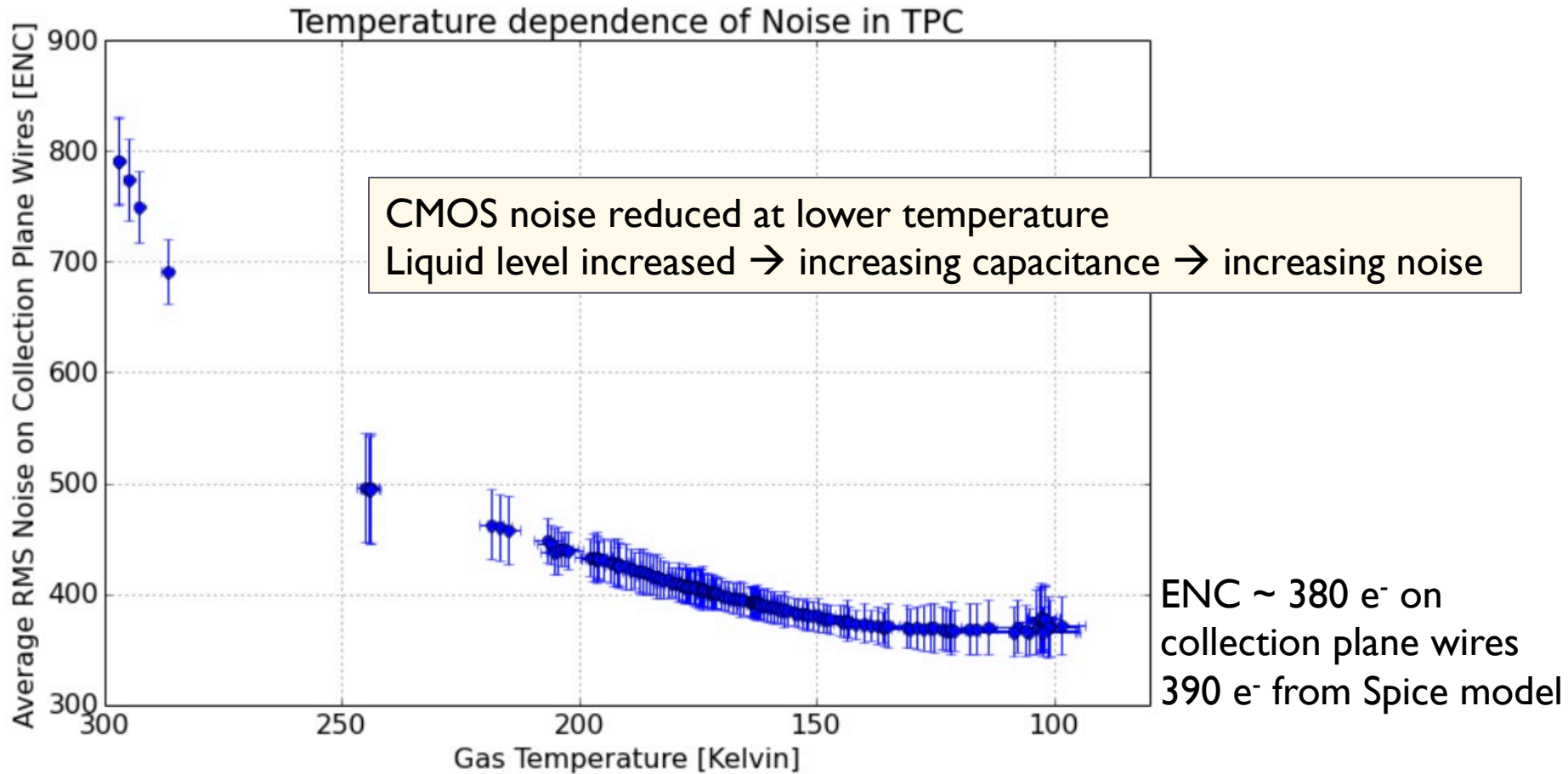
*Wire Bias HV on, Drift HV off*

Leon Rochester (SLAC)



# Electronics Noise

David Caratelli (Nevis)



# Plans

---

- ▶ Ramp drift HV to 64 kV later this week
  - ▶ Space charge distortion of tracks expected to be significant
- ▶ Several days of UV laser commissioning
  - ▶ Ends when laser tracks are seen in the detector
  - ▶ Study cosmic ray tracks
- ▶ Ramp drift HV in steps of 5 kV/day
  - ▶ Assess track quality in laser and cosmic ray data runs
  - ▶ Continue ramping until track quality is deemed adequate for physics
    - ▶ Drift HV > ~90 kV should be sufficient
- ▶ Collaboration review of detector performance