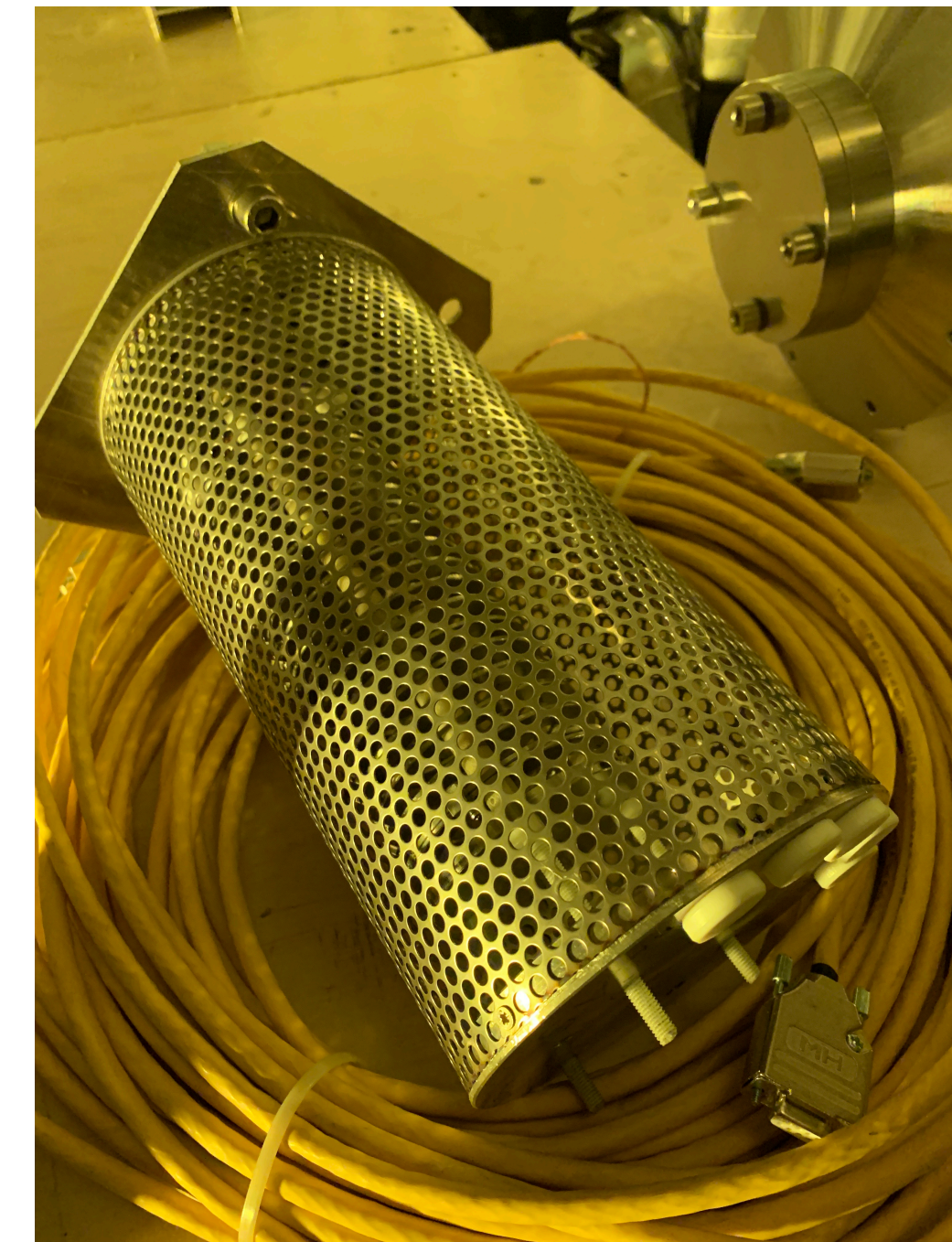# PD-VD Purity Monitor Update

Wenjie Wu (UC Irvine)

CALCI Consortium Meeting

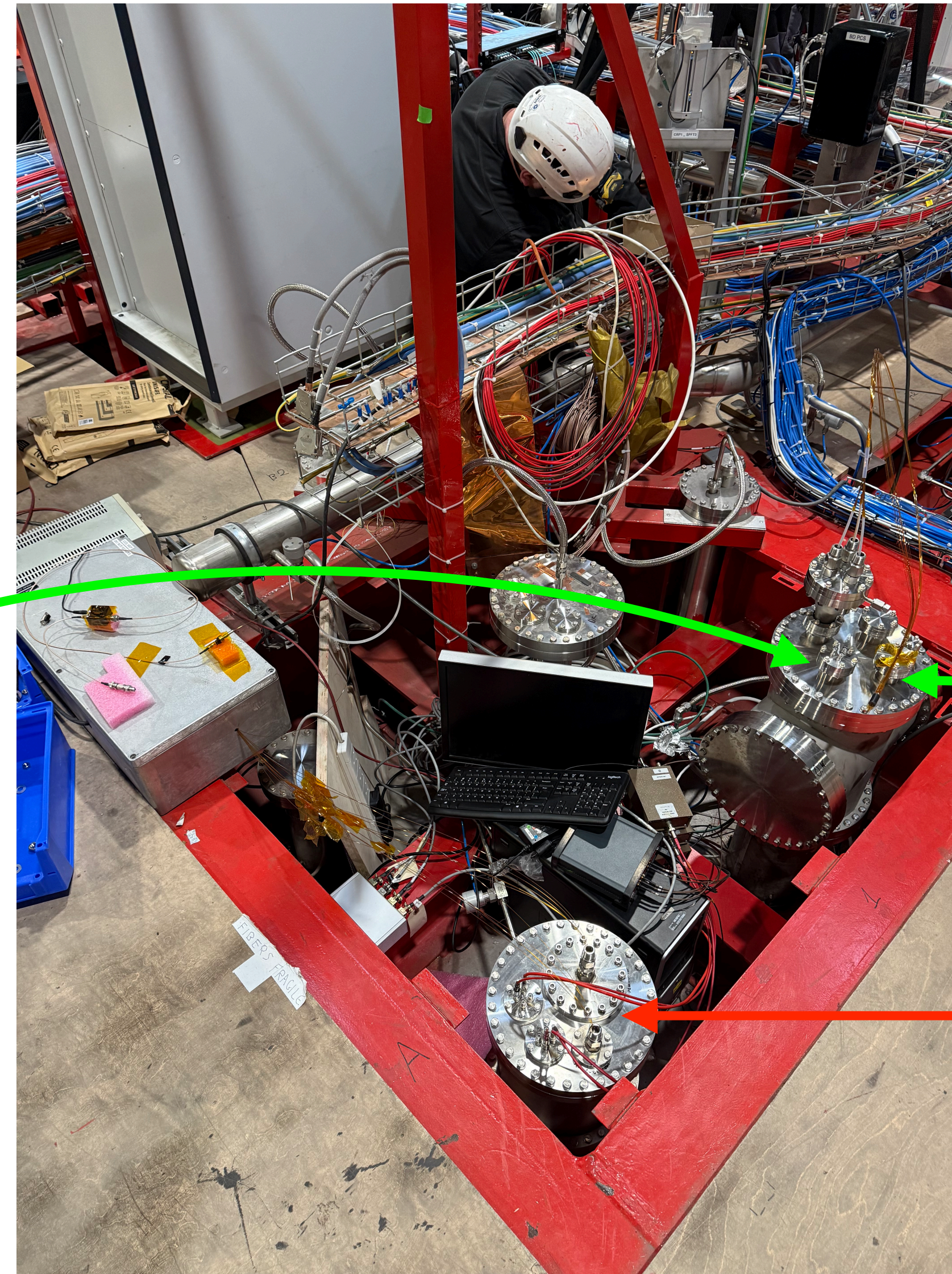**December 5, 2024**

Purity monitors in PD-VD

- 3 PrMs from ProtoDUNE-I DP will all be re-used

  - Two short PrMs (UCL), **One long PrM (UCIrvine)**
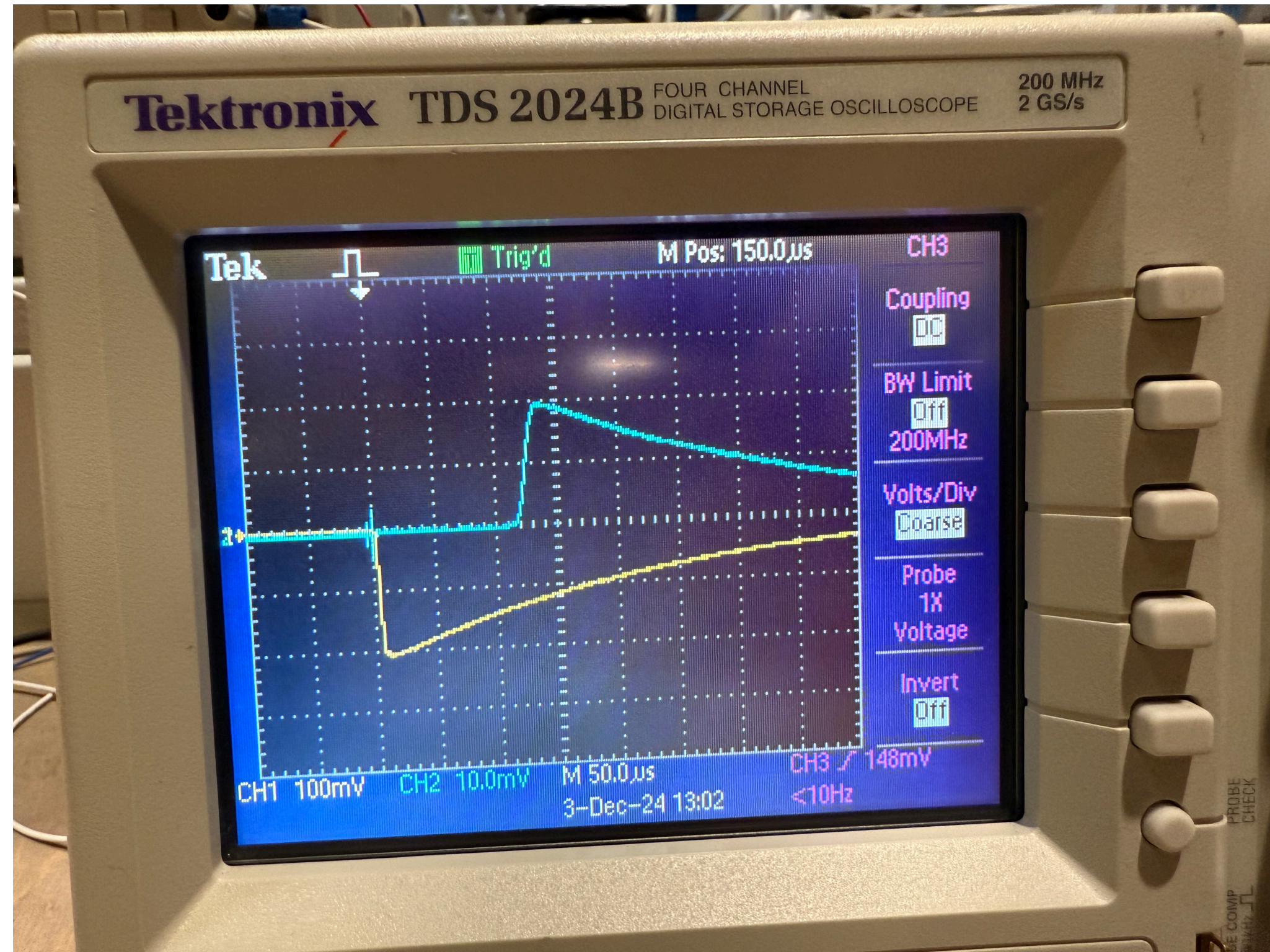
Installation on Nov. 22

UCIrvine

UCL

Signal in gas

Vc: -30 V, Va: 300 V
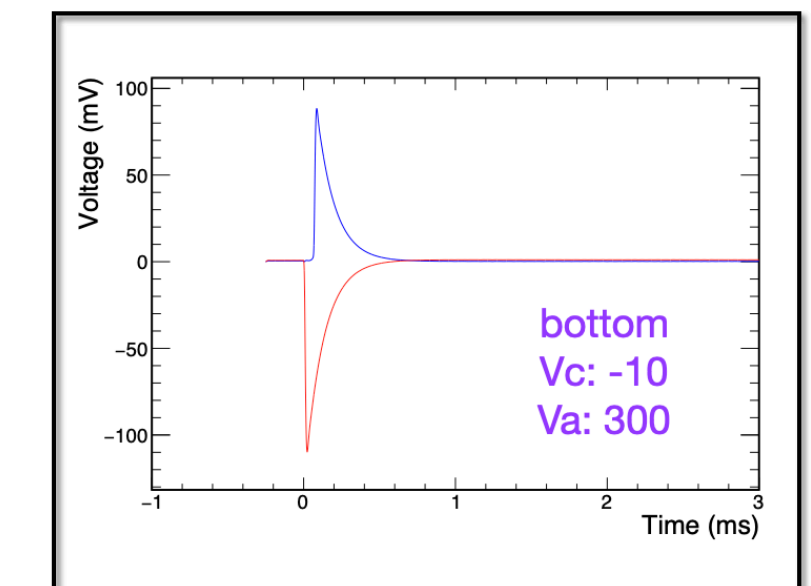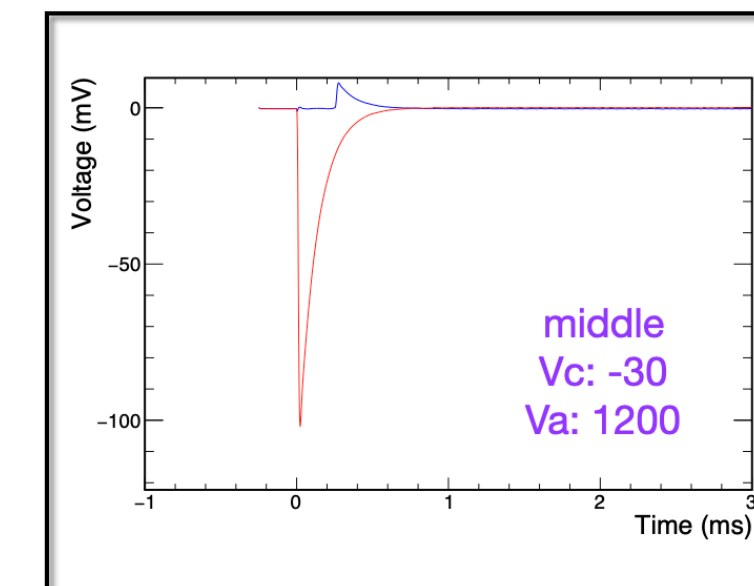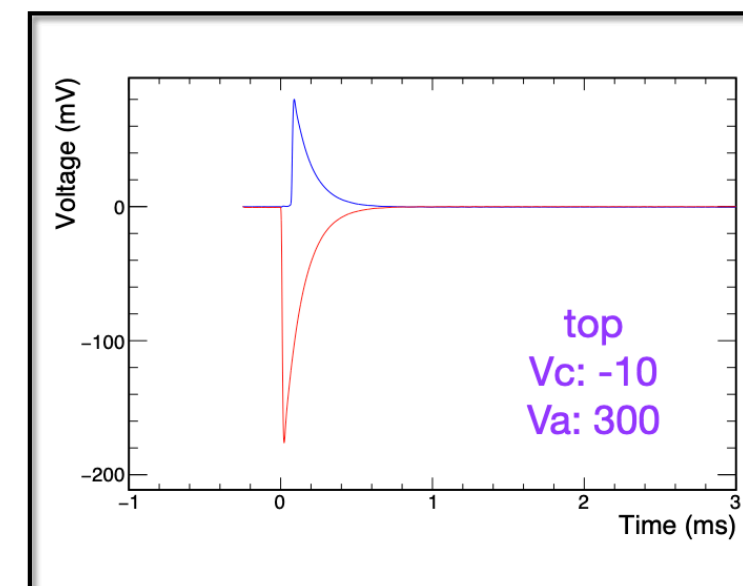Larger signal strength than the long PrMon in PD-HD

First look in argon gas before cooldown
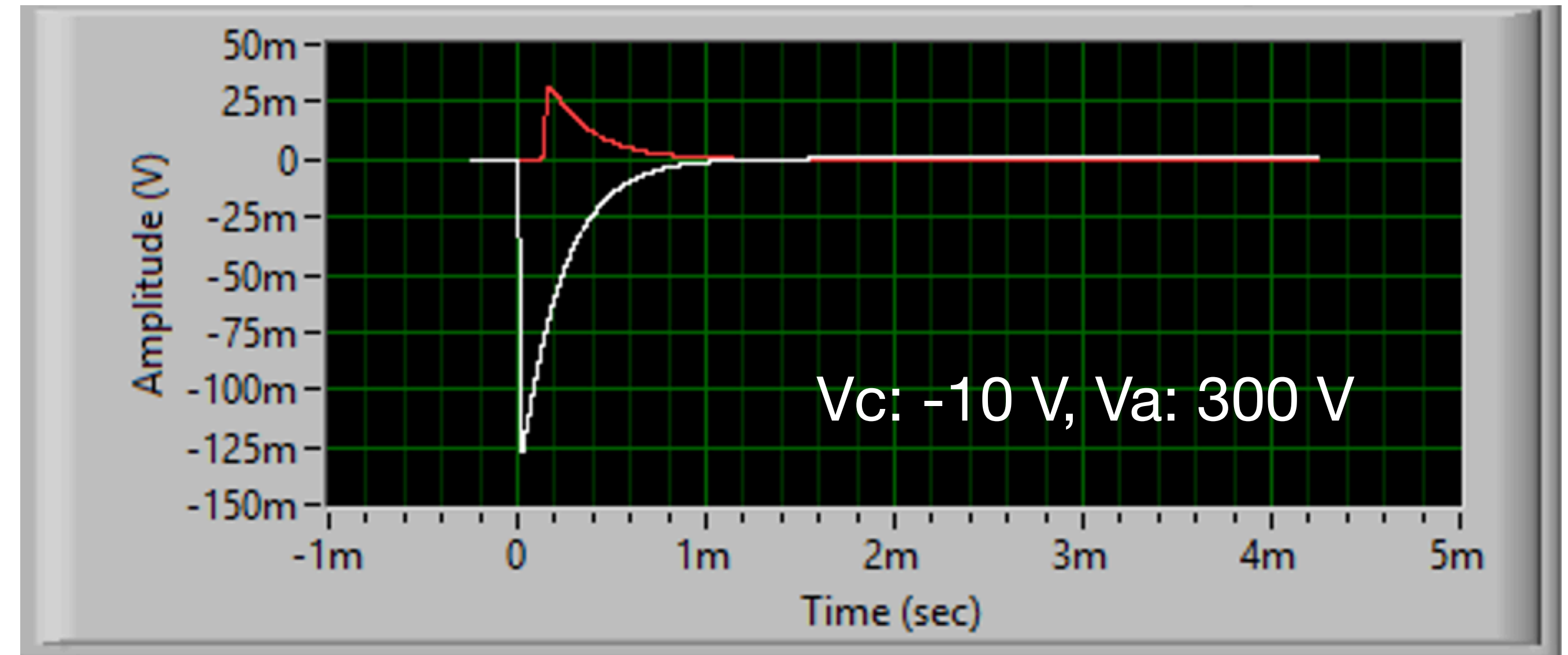
PD-HD

3/6/2024 ~9am, Temperature: 304 K

Middle PrM has smaller cathode signal with the same voltage setting

Middle PrM has smaller anode signal because of the long drift distance

top
Vc: -10
Va: 300

middle
Vc: -30
Va: 1200

bottom
Vc: -10
Va: 300

Remote readout

Same LabVIEW program used in PD-HD, but reading only one PrMon for PD-VD

Vc: -10 V, Va: 300 V

Integration

- Integration to DCS is ongoing

- Coordinate data-taking with UCL PrMons and PMTs

- LAr transfer from NP04 to NP02 is happening tomorrow morning

  - Will run PrM in gas phase before it's immersed in LAr