

LAr R&D Progress Report

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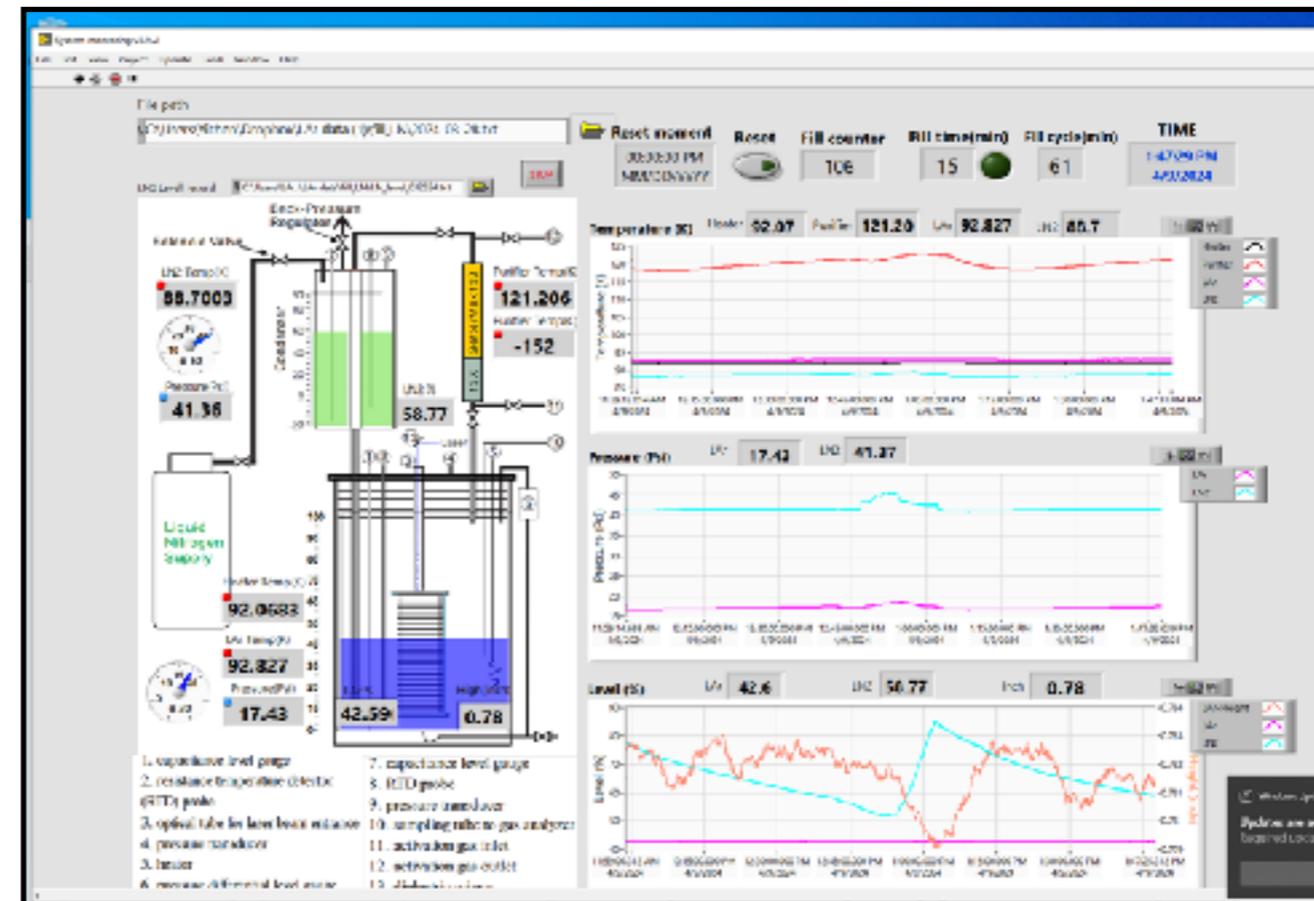
Lab Safety and Space Management

- HighBay roof leak
 - Roof leak found in the last storm
 - Tent overhead protected the setup
- Technifab provided an updated quote
 - Cost increased to \$90k with the change from the site review
- HighBay ceiling lights repair
 - Schedule the rigging to fix the ceiling light next week

260 L System Status

► 260L Filling

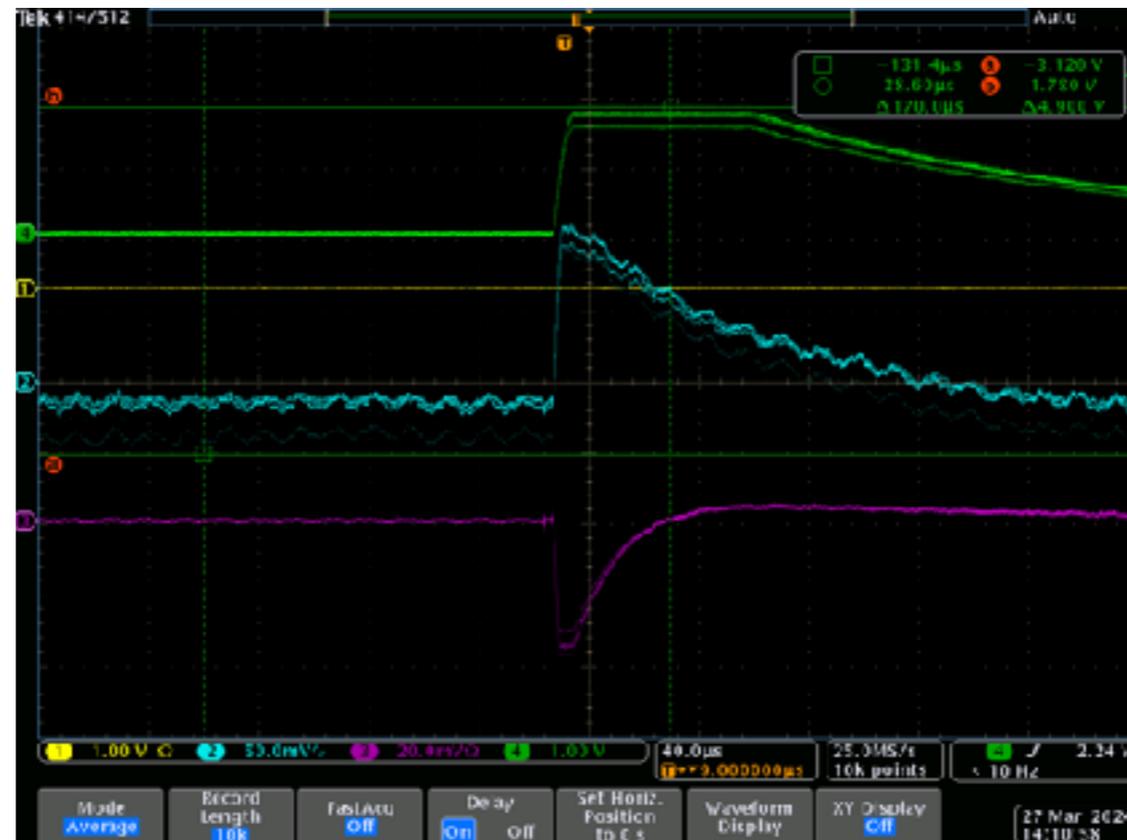
- Started around 10am last Thursday, 5 days cryogenic operation til now
- Filling process is pretty slow, finished in ~5 hours
- Used ~1.5 full LAr supply dewar to immerse the PrM with a filling level of ~42%
- PrM performance test in GAr before and during filling when bottom part liquified
- Cryogenic running pretty stably so far with LN2 filling cycle of ~ 1hr
- Milind and Aleksey attended the filling



260L System Status

► PrM performance in Vac.

- Vac. measurement repeated for multiple times during pump and purge stages
- Signal observed on both cathode and anode



260L System Status

► PrM performance in GAr

- PrM signal measured in GAr at 16.08 psia at room temperature before fill
- PrM signal measurement repeated at 17-19 psia at cold temperature (LAr formed at the bottom of the main dewar)
- Clean signal observed on both cathode and anode
- PrM performance validated before immersed by LAr



260L System Status

► PrM performance in LAr

- No signal observed right after fill and the day after fill
- Weak signal observed for anode on Channel 2 when reading cathode with Channel 1
- So I used the CH1 to read on both cathode and anode separately
- I just observed signal on both cathode and anode for the first time on Channel 1
- Will conduct troubleshooting on CH1
- Inquiry for fitting code with Wenjie
- I will conduct regular PrM reading this week

