

# 260-L LAr System Progress Report

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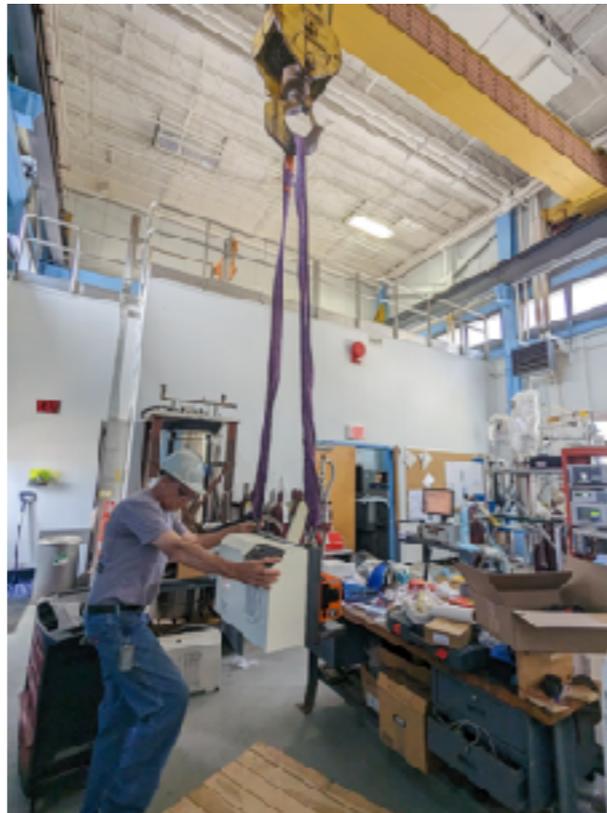
# Lab Safety and Space Management

- **Safety reminders for the coming summer students**
  - A lot of summer students/interns are expected on-site during the summer
  - Please watch out for the summer students around
- **New NEC/NFPA code effect from 01/01/24**
  - NEC update meeting with Rich Biscardi next Tuesday as ECP
  - Need to review what equipment might be impacted
- **LN2 plumbing into Highbay**
  - Updated quotes from Cryofab and Technifab are receive
    - Cryofab quote: \$34,390 in total, fabrication to design only
    - Technifab: \$60,179 in total,
      - \$31,039 for fabrication
      - \$29,140 for installation including survey and design
  - Volodya is putting in a PO in the system

# Removing the Old Leak Detector

## ▸ Removing of the old leak detector

- In the process of excessing the old leak detector with our Property Rep
- A Work Order EP1181825 is put in because it is ~150lbs, need riggers to pick it up
- Waiting for an EMR to remove it
- All vacuum oil completely drained from the pump
- Moved onto a dolly with waiting for pick up



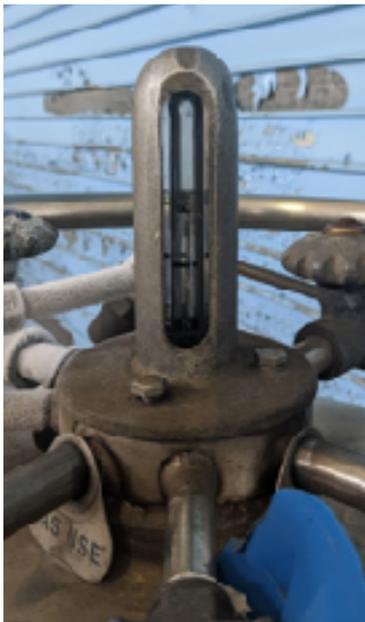
# 260-L System 2nd purity run

## ▶ Inline filter activation

- The activation was completed
- Consumed 1.5 cylinders 3%H<sub>2</sub>+Ar mixture

## ▶ Inline filter performance validation

- Plumbed directly into the gas analyzers for performance validation test
- LAr supply dewar was found filled by LN<sub>2</sub> delivery truck, verified by temperature measurement to the cryogen
  - The second occurrence of the incident
  - All LAr dewars marked with “LAr, DO NOT Refill” warning
  - A new driver conducting the LN<sub>2</sub> delivery
  - Contact the lab buyer to remind the vendor
  - Ordered new LAr
- The system flushed with vaporized N<sub>2</sub> gas with all filters bypassed



# New Leak Detector Test

- The new leak detector has not been tested with a system leak check
- The plumbing to the gas analyzer has been filled with nitrogen
- To avoid contamination and save hot getter lifetime, use the leak detector to pump/purge the plumbing and conduct a performance validation test
- New lead detector performance
  - The new detector has stronger pumping power than the one we borrowed from Hucheng
  - Some problems were found at the pumping initialization stage, contacting the tech support to resolve
- Will conduct the filter performance test with compressed gas instead after cleaning the plumbing

