

# LAr R&D Progress Report

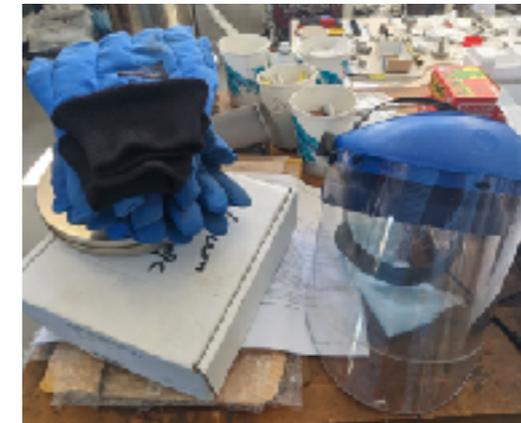
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# Lab Safety and Space Management

- High Bay overhead lighting repair
  - A Work Order has been in for many years, now possible with overhead crane repaired
  - Planned for this week with highbay lab evacuated for a day
  - The fluorescent light bulbs will be replaced with LEDs
- 6000-gallon LN2 tank plumbing
  - Davis-Beacon Act compliance cleared
  - Still waiting for the quote from MPO for using their service
- EDIT school lab session safety walkthrough
  - Lab cleaned up for the lab session of EDIT school 10/10-10/20
  - PPEs in place
  - Walkthru this morning



# LXe Collection for PIONEER

- The final answer received from PSI safety
  - Safety documents are in German
  - In summary, the cylinders in compliance with the US DOT code and regulations are acceptable at PSI
  - Transportation can be done from USA / Canada to the end user PSI.
  - Shipping company info PSI used will be provided later
  - Document available on docdb: [PSI\\_safety\\_response](#)
- We are going to proceed with the gas cylinder procurement
- BNL promised the contribution of ~20L LXe
- Inquiring with procurement about the purchase of ~70L LXe from China
- Youshen is going to give a presentation on the collaboration meeting about the Xenon collection and global procurement progress

# 260-L System 2nd purity run

- Top Flange assembly
  - All surfaces are cleaned thoroughly with alcohol
  - Lifted the top flange with overhead crane and move onto the main dewar



# 260-L System 2nd purity run

- Top Flange assembly leak check
  - Leak checked with no sensible leak down to  $10^{-11}$  mbar l/s
  - Pumping speed with new pump agrees with the calculation
  - Currently in the process of pump and purge
  - LAr delivery expected this week
  - Will fill with LAr once delivery arrived



# EDIT school 2023

## ▶ **EDIT school**

- Actual attendance is expected to be <50
- Date: October 10–20, 2023
- Lectures:
  - Slides received from all lecturers
  - Another dry run this Friday
  - <https://indico.bnl.gov/event/20491/sessions/6567/#20231017>