

# LAr R&D Progress Updates

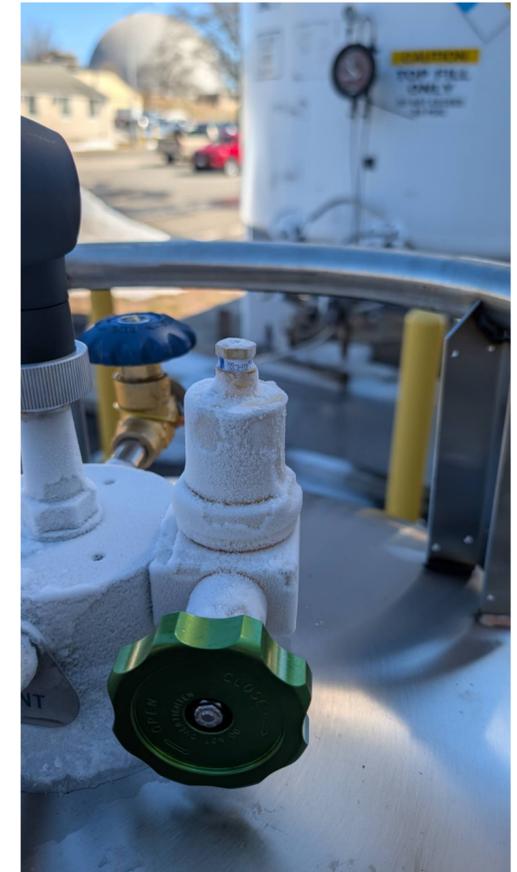
## 03/10/26

**Yichen**



# Lab Safety and Space Management

- Safety review for the Xenon collection system
  - Still wait for the response from lab safety
- New LN2 supply dewar delivered
  - 230L volume with adjustable pressure builder
  - Filled with LN2 and familiar with the operation
  - Shanshan is going to use for CE testing
  - Plan to buy 2 more at least for future use
- Driving safety



# Filter Testing at CIEMAT

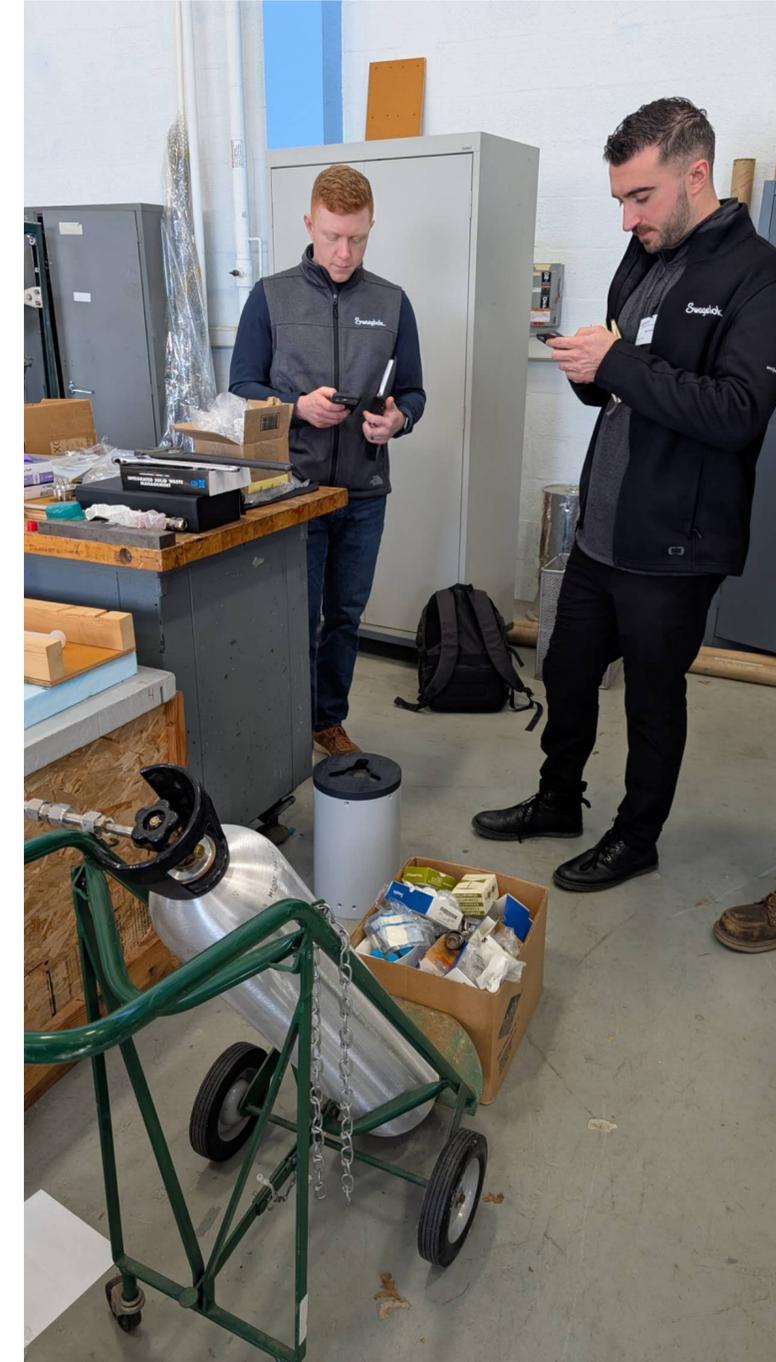
- Thanks for the collaborations of all parties
- The trip arrangement completed
  - 0 value PO dispatched to CIEMAT, luckily CIEMAT is in [SAM.gov](#)
  - Export control and shipping memo is done
- Planning
  - I'm leaving this Sat. 03/14, returning on 03/19
  - Meeting with Clara on Monday at 10am at CIEMAT
  - The assembly will be on 03/16-03/17

# Sample selections

- The assembly requires 6pcs, I'm going to bring 8pcs with me
- Selection based on the surface conditions and emissions
  - Summary documents: [https://www.phy.bnl.gov/bnlif/docdb/0003/000384/001/3rd\\_pTP\\_summary.pdf](https://www.phy.bnl.gov/bnlif/docdb/0003/000384/001/3rd_pTP_summary.pdf)
  - S49-S54 as the primary, back up S43-S44
- The samples will be brought in person and shipped back to us

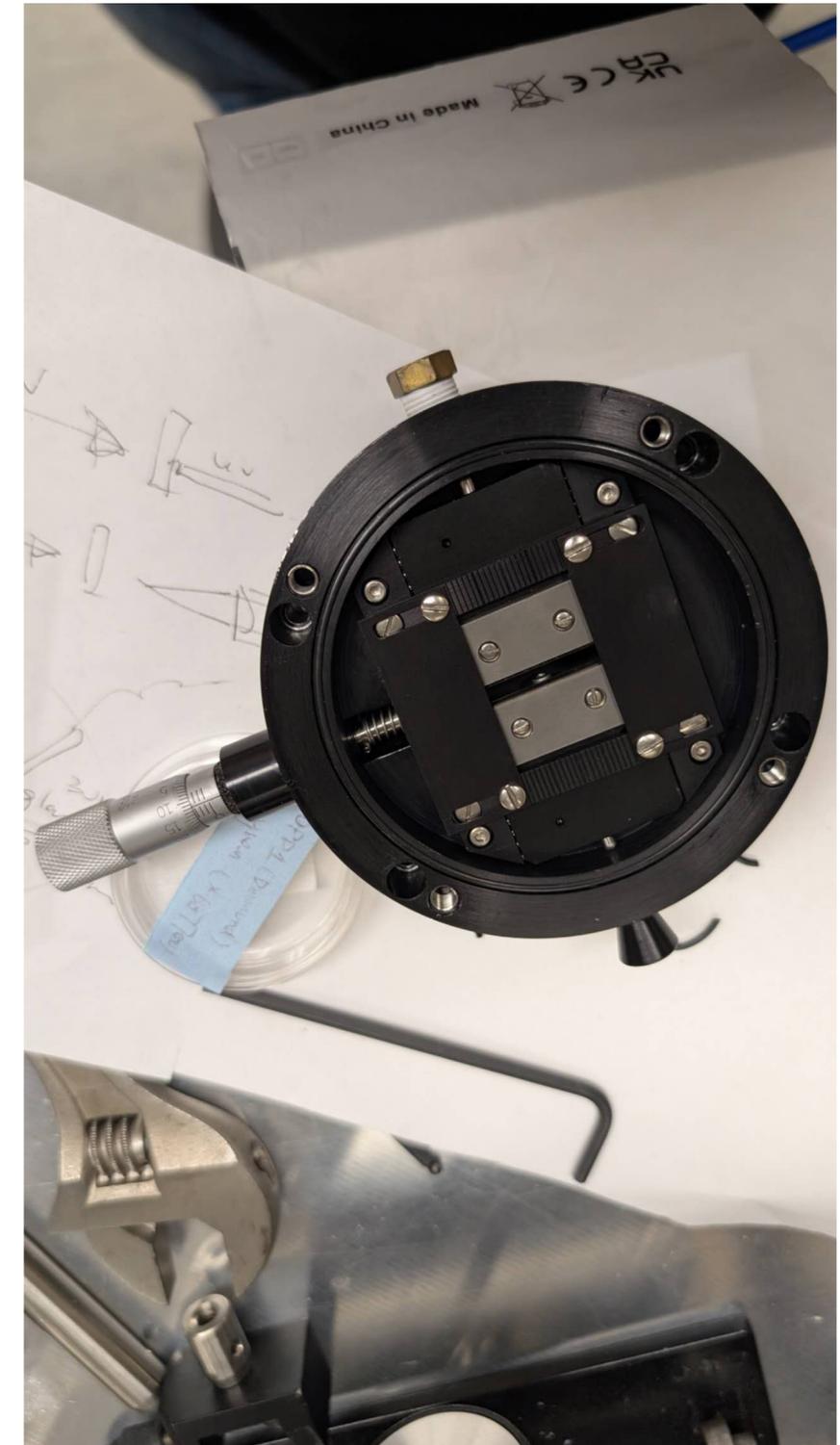
# Xenon Collection System

- Quoted with Swagelok about the only new device we need
  - A high pressure gauge with VCR fitting
  - Needs to be customers ordered
  - Swagelok file sales and tech support visited today to confirm the specs
- Going to start the assembly once the new gauge delivered
- Aiming to finish in 2 months



# Monochromator repair

- Bob and I dismantled the exit slit
  - One issue noticeable immediately
  - A broken viton o-ring found
  - Slit can close normally after removing all debris
  - Bill is going to clean and re-assemble



# 260L paper

- First draft on overleaf
  - <https://www.overleaf.com/project/663a49981a73e6afdddc9b27e>
  - Most of the content writing is complete
  - I still need to produce a few figures
    - No keep in place as placeholder
    - Will finish the figures by tomorrow