

LAr R&D Progress Updates

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Lab Safety and Space Management

▶ **ESR user addition**

- Chris from EDG group has interests to conduct some LAr measurement using our setup
- I've shown him the system
- He is added into the ESR
- Will discuss with him for the future measurement plan

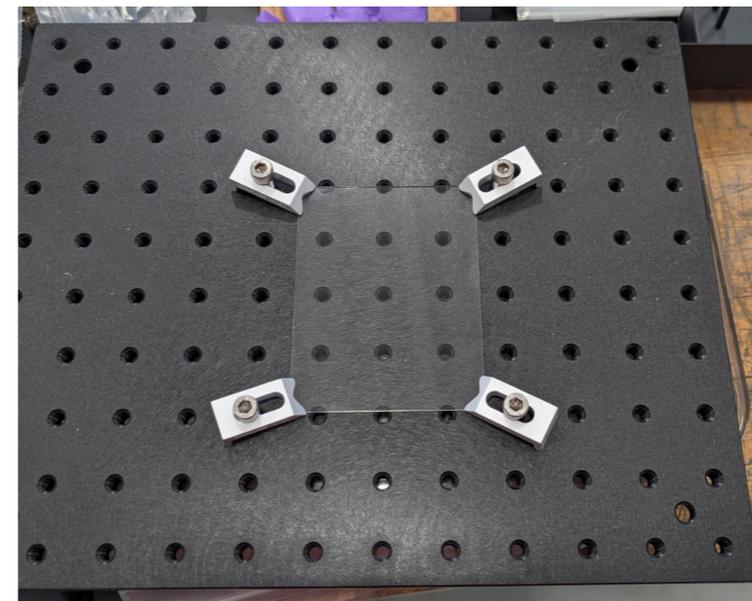
Cryogenic operation preparation

▶ Parts cleaning

- The original screws rusted after washing and rinse with distilled water
- Replaced the screws with stainless steel and washed with ultrasonic bath
- 2.75" Multiple-pin and BNC conflat flanges cleaned up

▶ Mounting hardware

- Made the decision to use catalog optical clamps for holding the samples
- Delivery delayed due to holidays
- The parts are cleaned up for vacuum application, no further cleaning needed



Cryogenic operation preparation

▶ Mocking installation

- Using the samples in the previous cryogenic test for mocking up
- Given the size of the holding plate, I will only put in 2 pcs in the test at this round
- The aluminum clamps work well on holding the samples
- Will put in fresh samples from 2nd batch before the assembly of top flange



Cryogenic operation plan

▶ **Top flange assembly**

- Going to put the top flange back to the main dewar tomorrow
- Cleaning up the interior surface of the main dewar
- Will conduct leak check and purge the system this week
- Slow control program transfer in progress
- LAr order in progress, only ordering 1x 230L supply this time, waiting for the quote from Airgas
- Plan for filling next week as soon as the LAr arrives