

LAr R&D Progress Report

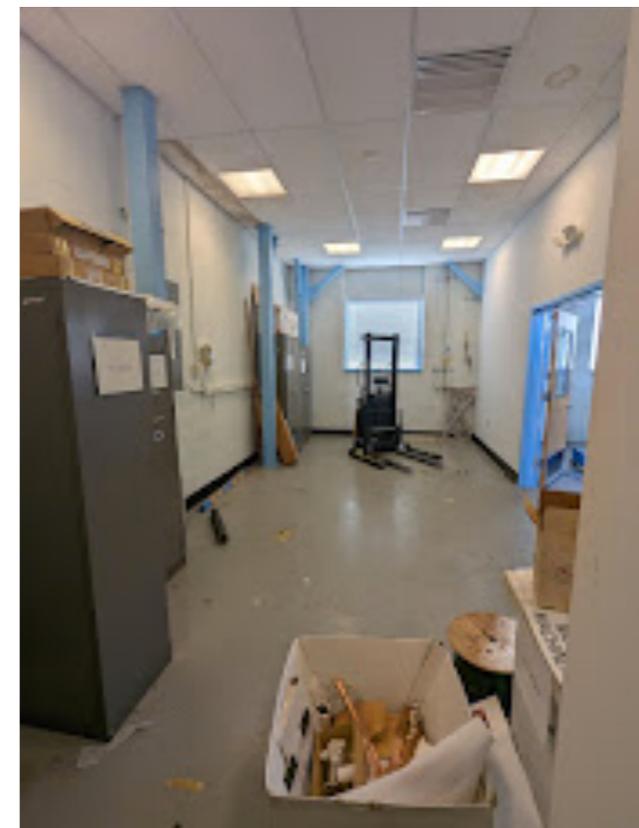
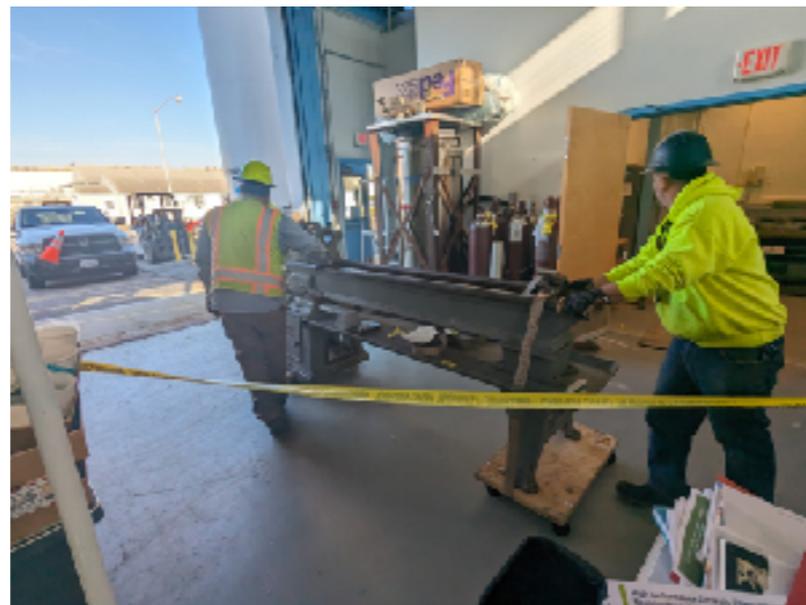
Yichen, Sergey, Steve

11/28/23



Lab Safety and Space Management

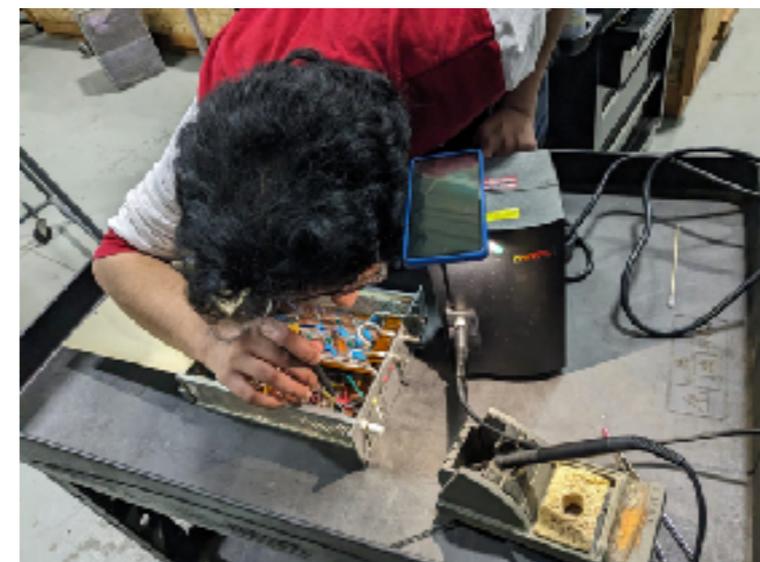
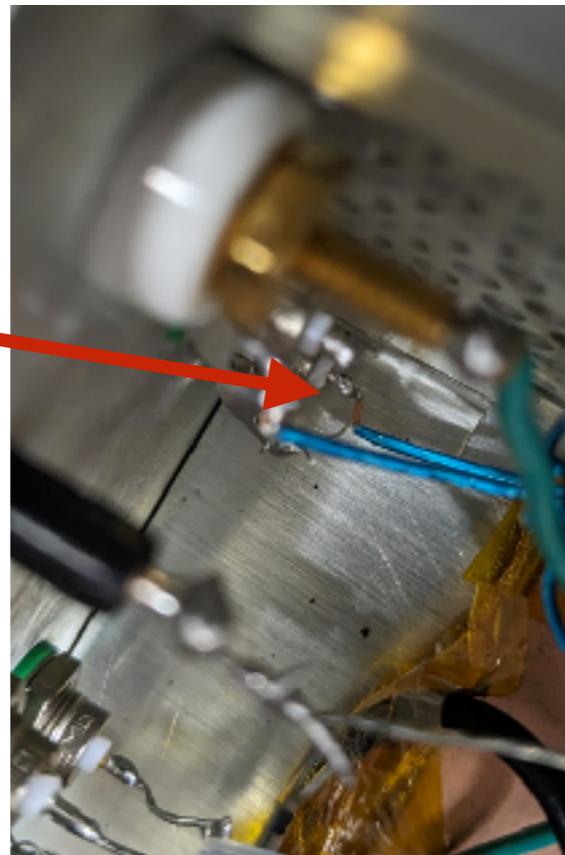
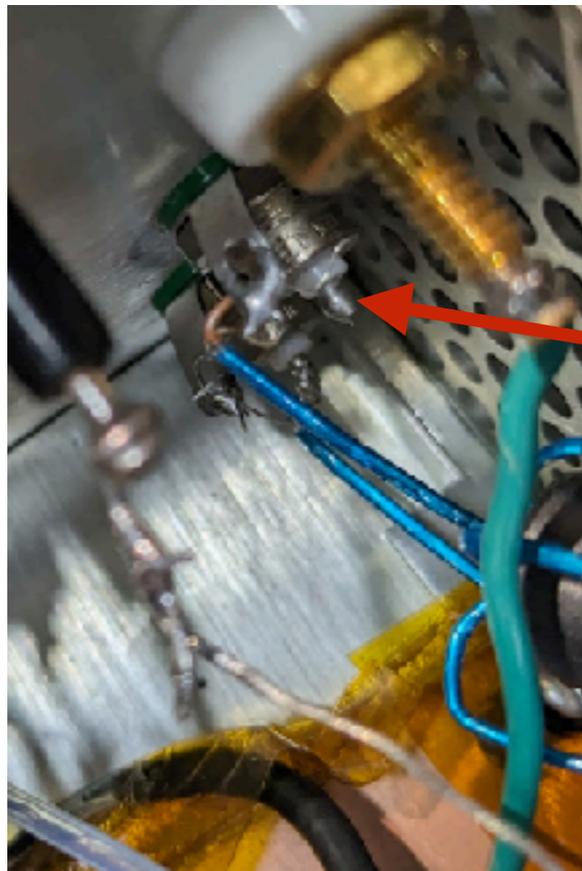
- High Bay End room cleanup
 - The winding machine and accessories have been moved out of the end room
 - The space is ready for the RTS stations to move in
- LN2 plumbing with Techinfab
 - MPO approved the updated quotes with design and fabrications/constructions separated
 - SOW document updated and routing for signature now
 - The vendor can generate the engineering drawing for the plumbing 1-2 weeks after site survey
 - LN2 price by delivery truck jumped from \$0.14/liter to \$0.35/liter



PrM Commissioning for the next run

▶ Electronics box testing with Nitish's help

- The malfunctioning NIM crate replaced
- 1 channel has no signal, found the signal wire broken, fixed by redoing the soldering
- The electronics response normally to the calibration pulse on both channels now



PrM Commissioning for the next run

► 600 um optical fiber preparation at IO

- The previous 10 ft fiber sending Xenon lamp light in found broken on the interface feedthru on the top flange
- Preparing 3x 10 ft fibers for higher total power input and contingency
- The fibers were cut to length and in the progress of polishing at the sanding lab in the basement of IO (next to the WbLS lab)
- There were some difficulties on achieving ideal finish
- It is expected to finish the fibers today
- A planning document on google docs: https://docs.google.com/document/d/1JMK52c_EFxYff_xQGPXfWVEh2adOVI5HIVr_mqo/edit?usp=sharing



Fresh cut



5um sand paper



3um sand paper

