

LAr R&D Progress Updates

Yichen

2/10/26



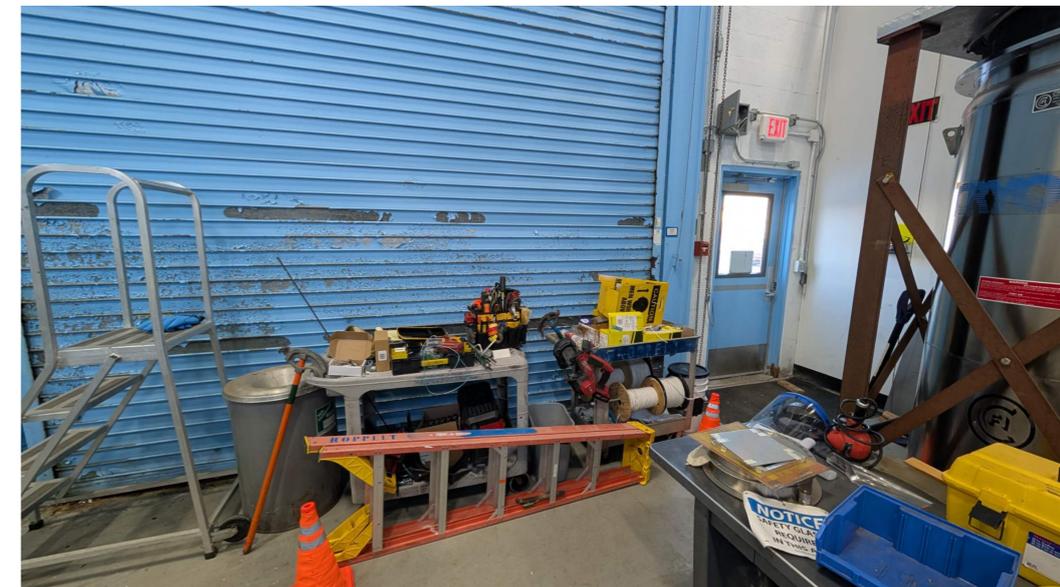
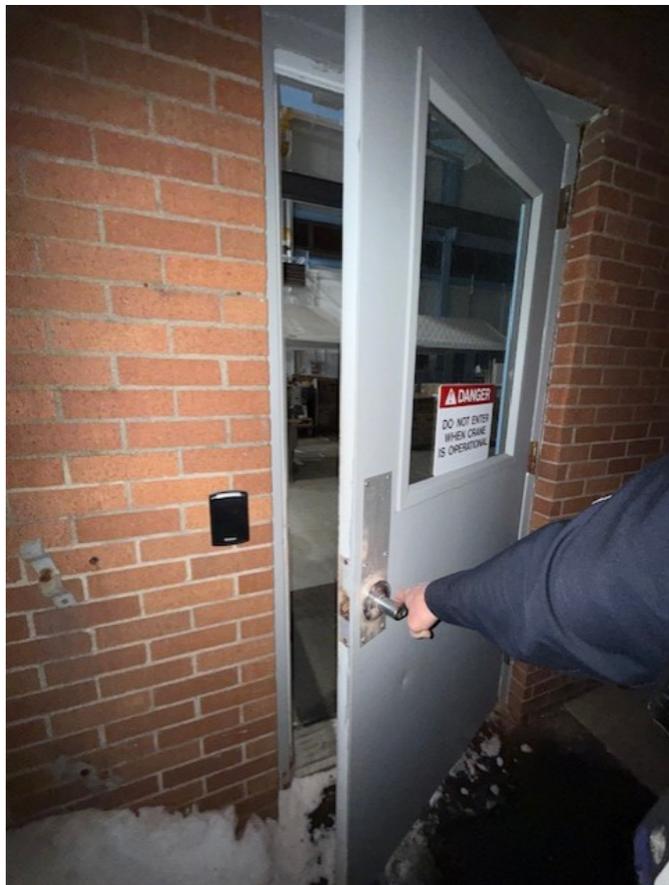
Lab Safety and Space Management

▸ LN2 portable dewar ordering

- PO dispatched on 02/04, expected in two weeks

▸ HighBay security

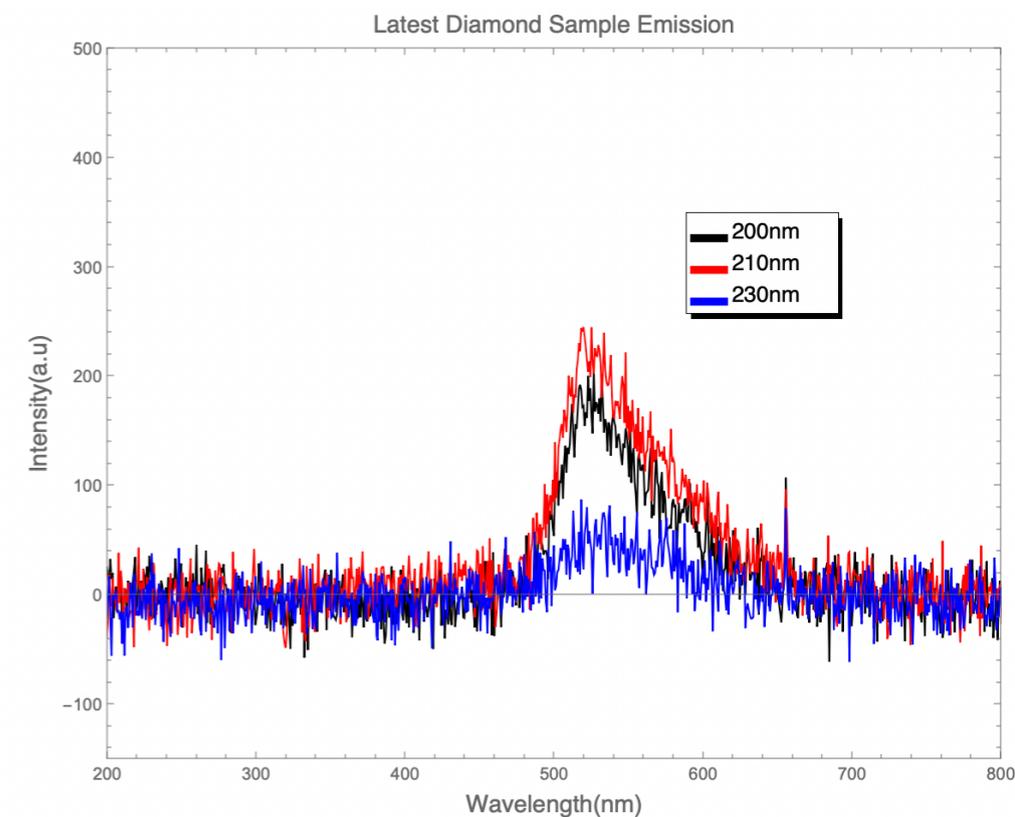
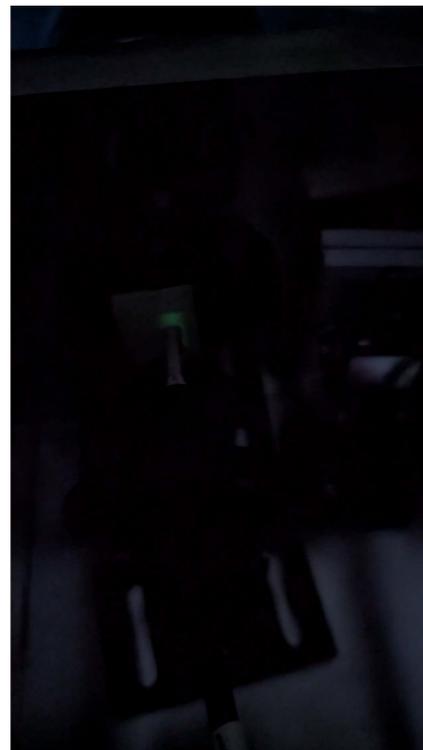
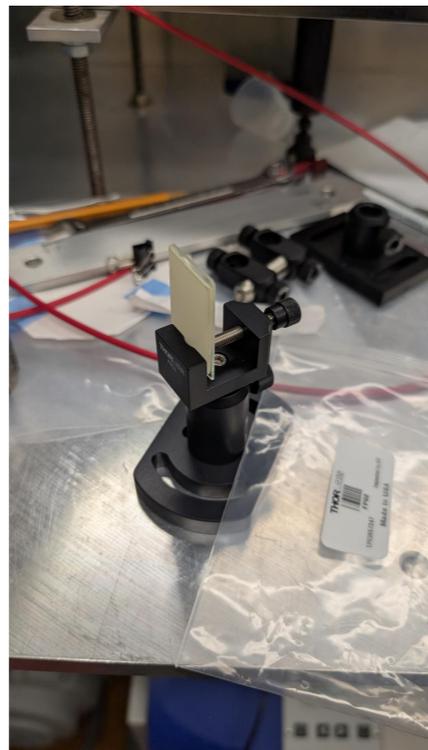
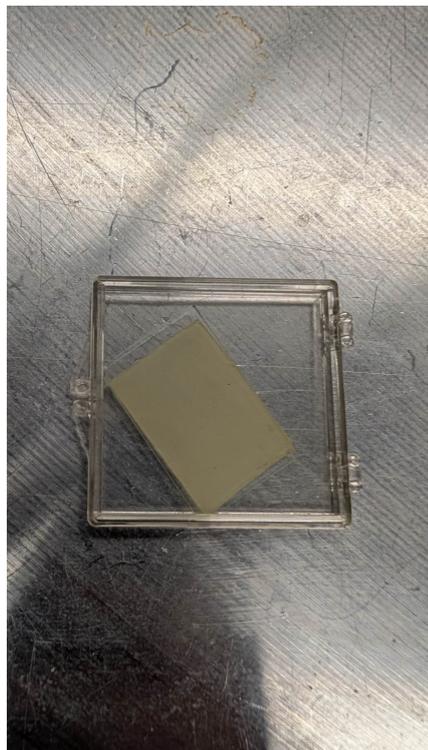
- One of the door was found latched but not fully locked last night
- Will double check when leaving the lab
- Lock modification on progress, the full building will be changed to badge access only in the near future



NOFO proposal discussion

▸ New Diamond Sample emission spectrum

- Aleksey provided a new diamond sample
- I conducted a quick spectrum measurement (still in progress)
 - There is no emission at 266nm
 - Start to see weak emission at 230nm
 - Only 200, 210, 230 nm excitation wavelength measured, will finish the measurement today
- Given the 266nm wavelength corresponding 4.66eV, I estimate the sample should be a p-type diamond
- At least it preliminary demonstrated the diamond can be a WSL



260-L System Cryogenic Operation

▶ **LAr delivery**

- LAr has not been delivered, checking with the vendor
- Cryogenic slow control
 - Still in the debug mode with minus problems
 - Should be ready to fill when LAr delivered