

260-L LAr System Progress Report

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Lab Safety and Space Management

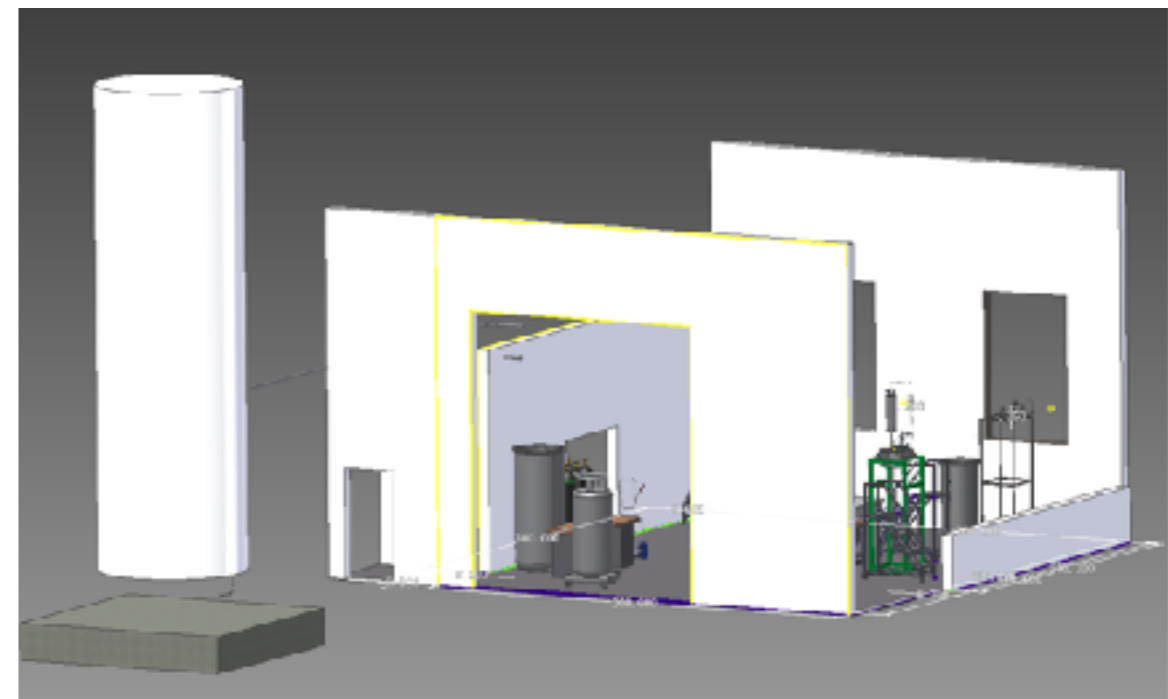
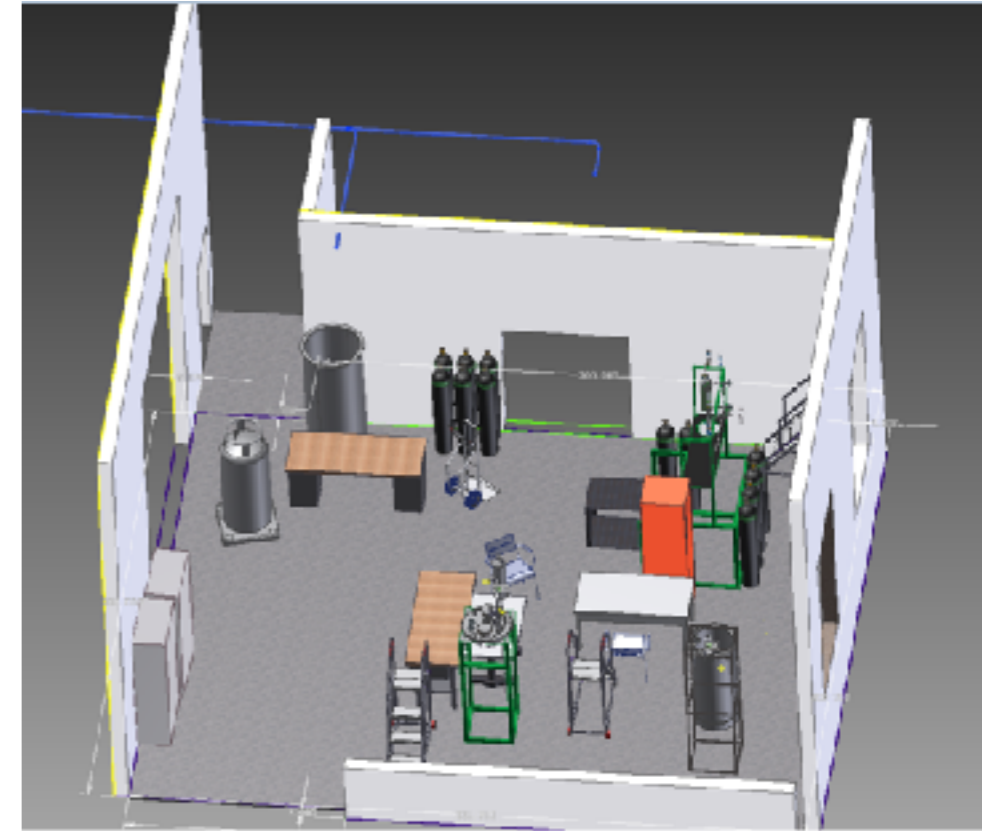
- COVID level in Suffolk County is still HIGH now
- Face masks are mandatory onsite at BNL
- CRP coldbox shipped to Yale
 - Plenty of space after coldbox removed
 - The usage of the area is TBD but we can use it for me
- Work order of removing and scraping the movable LN2 buggy put in
 - The WO is expected to finish by 01/25
 - Currently waiting for Yale's reply to see if they are interested in taking it
- sPHENIX TPC moved out of highbay lab today
 - No more crane operation restriction in highbay



HighBay Model Updates

► HighBay lab model updates

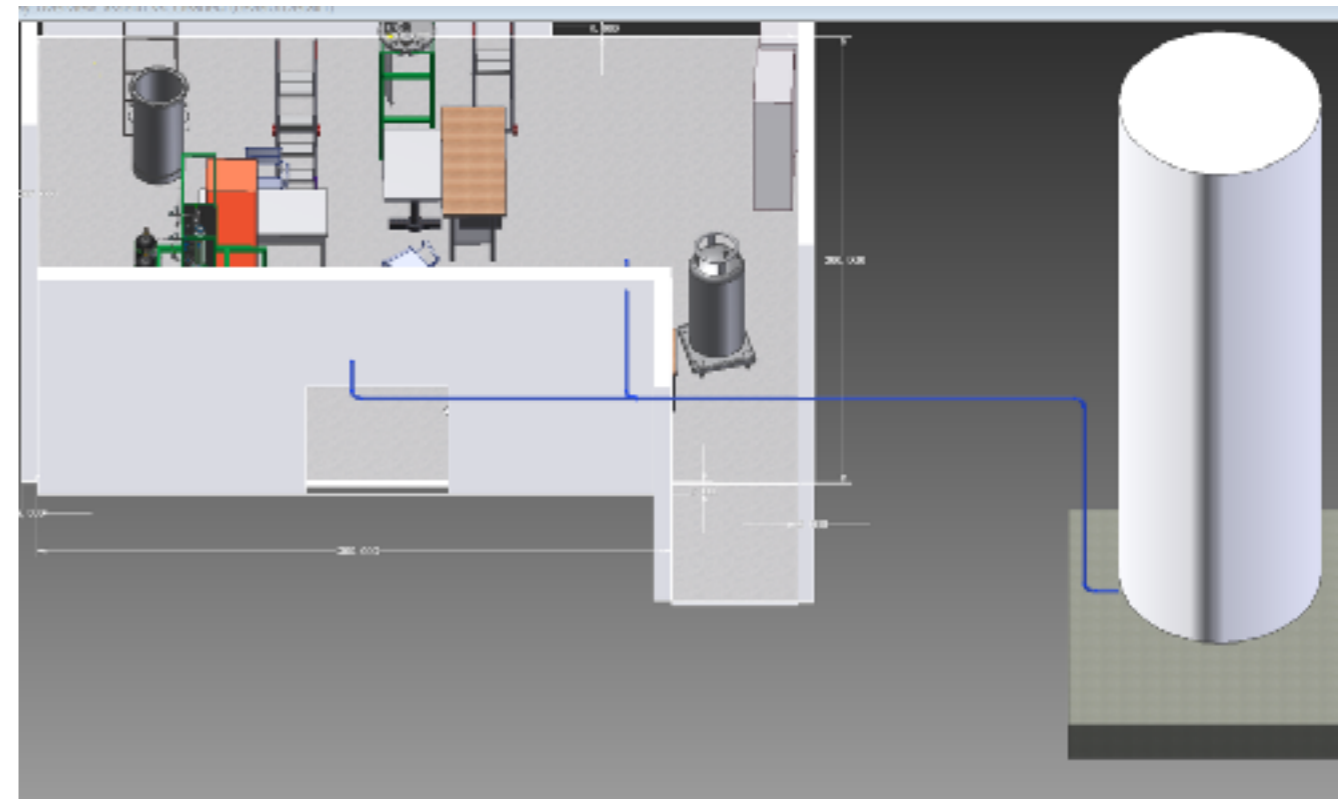
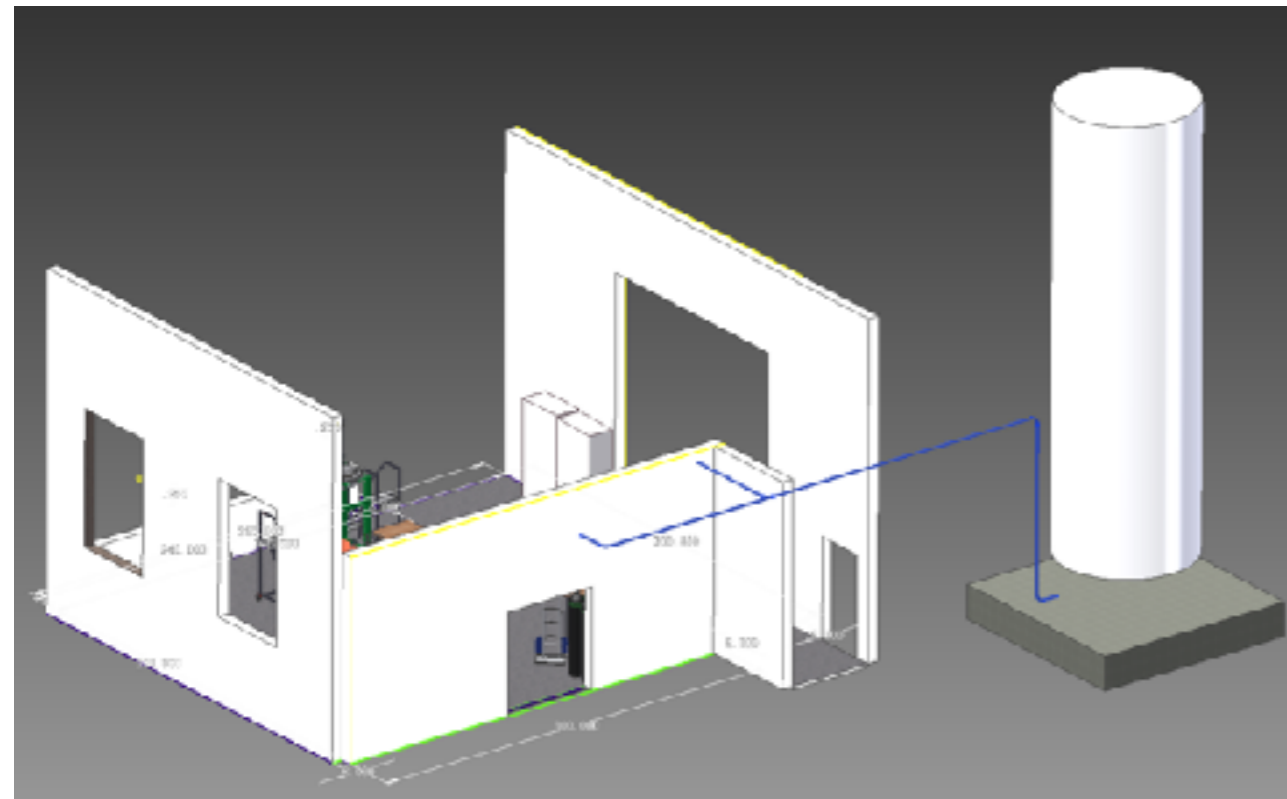
- I took a 2-day AutoDesk Inventor training class last week
- Learned a lot of best practices and tricks in designing
- As a practice, the highbay lab was modeled with the 6000-gallon tank added in.
- The preliminary plumbing for bringing in the LN2 into the highbay is drafted
- More details will be added to the model



HighBay Model Updates

► Plumbing LN2 into highbay

- It was planned as the stage-2 of implementing the LN2 tank to upgrade our lab facility with LN2 supply
- Inline with the plan of setting up the corner room of highbay for the chip testing stations
- Currently put in one branch for high lab and another branch for chip testings station
- Will coordinate with Volodya to get the project funded



Preparation for the 2nd purity run

- Gas sampling line leak test
 - Gas analyzers(H₂O, O₂) plumbed back for the leak check
 - H₂O analyzer debugging, the H₂O analyzer occasionally turning into blue screen, a typical WinXP problem after a long time running
 - Consulting with the vendor, may need to replace the hard disk on the H₂O analyzer
- Russ was out for surgery for 2 weeks, and he returned to the lab today
- Received the burst disk quote from the German vendor Berstscheiben Schlesinger GmbH, putting in a PO for the parts given it is an international vendor even cost is <\$2500
- Meeting scheduled with Thermomax for the LAr cryogenic heater, delayed due to the manpower shortage due to covid at the vendor