

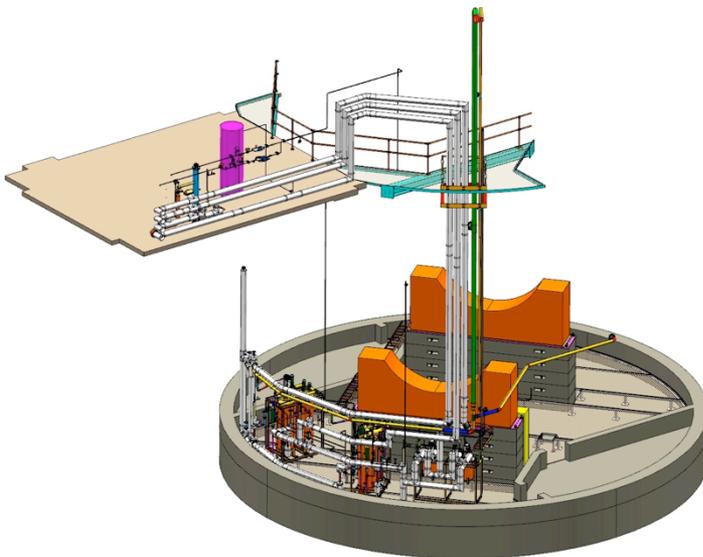
MICROBOONE UPDATE

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Finishing installation at LArTF

- Lots of work ongoing at the building, I will focus on it, we are more than just a TPC
- The past few weeks work
 - Purity monitor (used to measure electron lifetime) installation, it can measure down to better than 100 ppt of contaminants
 - Foaming and insulation being applied (more on this later)
 - Leak and pressure testing



Hard push to finish the cryogenics system for Phase I

- Phase I is a test run of the system without the cryostat
 - Useful for debugging and gaining experience operating before running it for real
- Leak and pressure testing is nearly done
 - We are down to three pressure tests (started with twelve total), waiting on the purity monitor and gas analyzer line welding
- Finishing line insulation and starting foaming
 - Welded pipe joints require foam insulation, machine picked up this morning and foaming has commenced



The purity monitor vessel awaits the purity monitor



- The purity monitor vessel on the left sits downstream of our liquid argon filters
- On the right side of the photo, a leak check is underway

Foaming and insulation continues being applied



Phase II elements are starting to be delivered to the building

- Phase II is operation of the cryogenics system with the cryostat in place
 - The mole sieve is at the building, preparations underway for installation
 - Will culminate with the installation of the cryostat at LArTF

