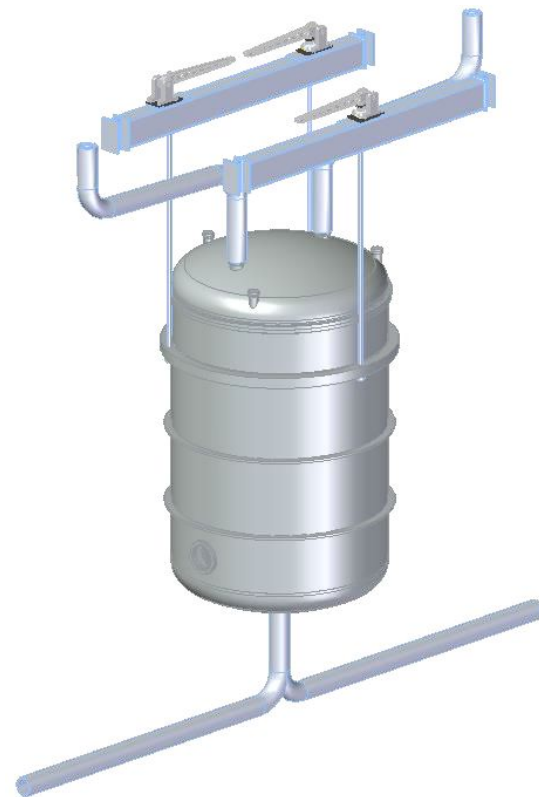
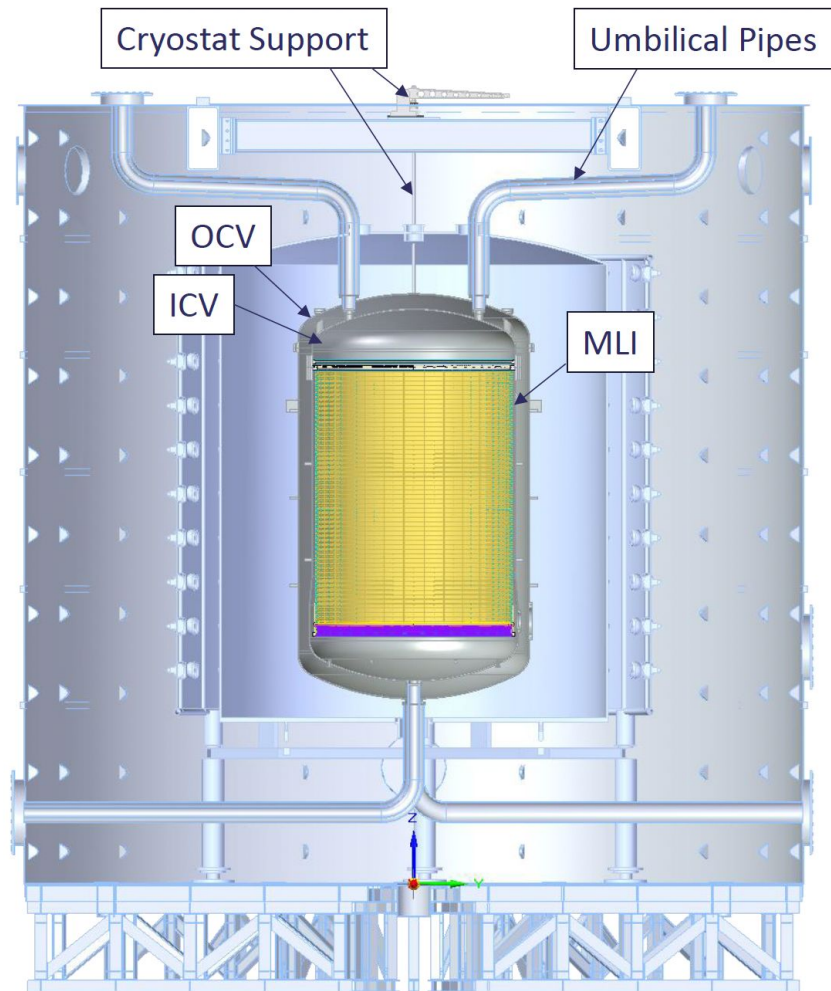


# **XLZD cryostat**

XLZD collaboration meeting  
Breakout session

1 July 2025



# ICV and OCV design (material options)

## Design - Vessel Sizes

- Inner Vessel
  - Inner diameter: 3120 mm top, 3200 mm bottom.
    - Includes conical segment to save LXe.
  - Height: 5774 mm.
  - Mass: 6.2 T\* (if Gr.1 Ti), 7.8 T\* (if 304L).
- Outer vessel
  - Inner diameter: 3550 mm.
  - Height: 6323 mm.
  - Mass: 6.1 T\* (if Gr.1 Ti), 8.2 T\* (if 304L).

\*At this stage the calculated masses are based off a design for pressure loading only, and excludes ancillary items (e.g. bolts, seals, lugs), final masses will be higher.

