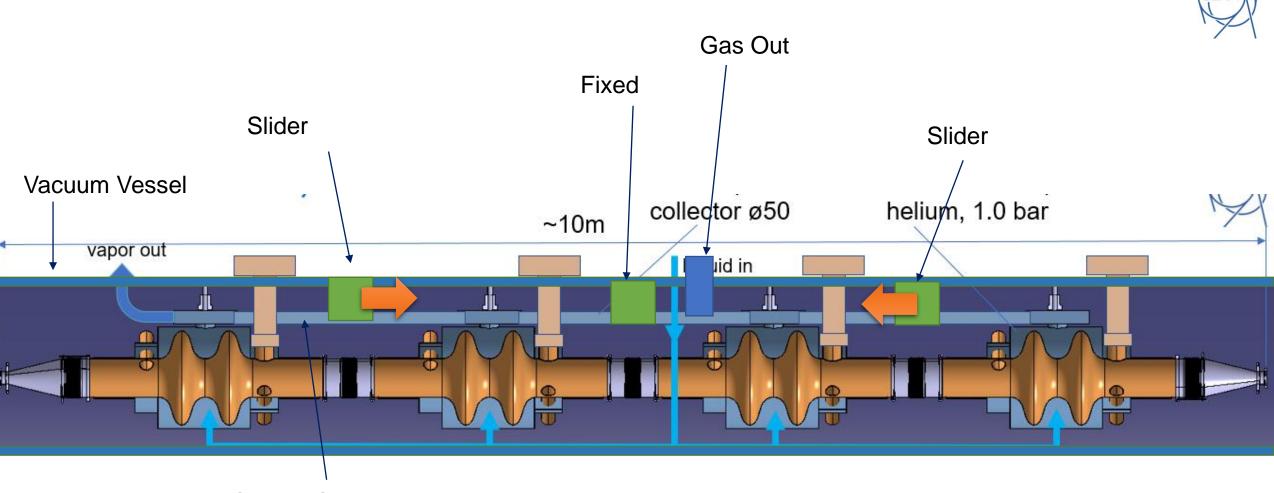
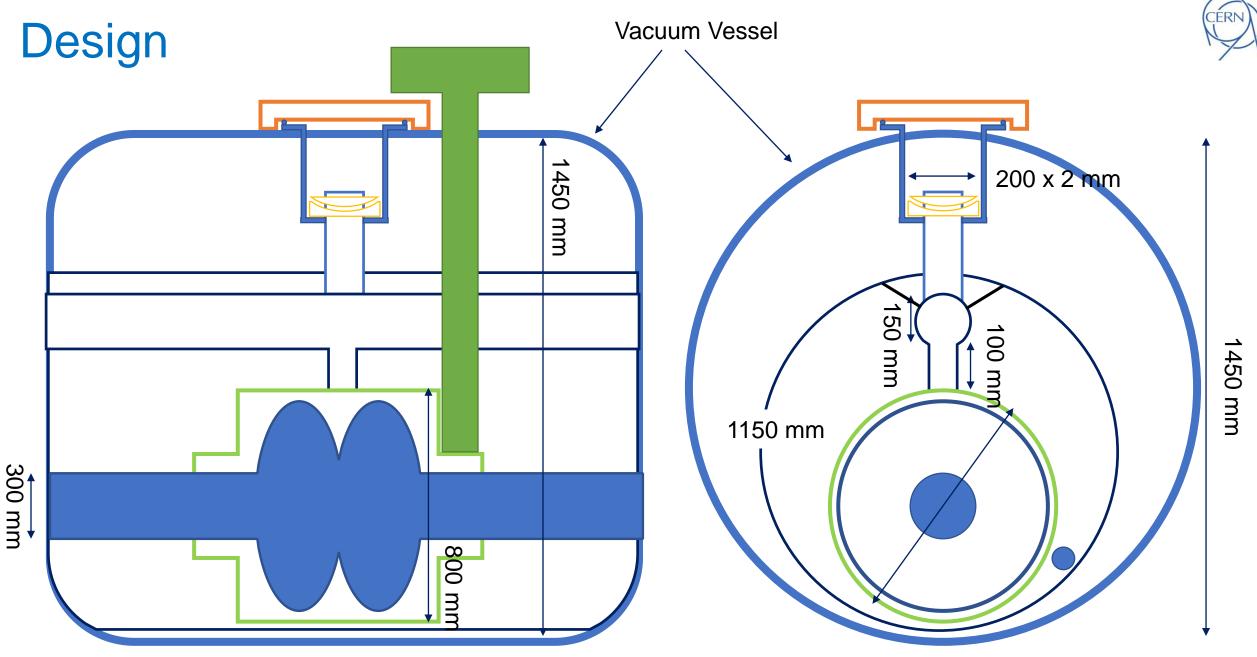


FCC-ee Cavity Cryostat Design

Technical Training: Cryostat Engineering for SC devices CERN, 7-9 November 2022



Central Supporting Tube



Helium Tank

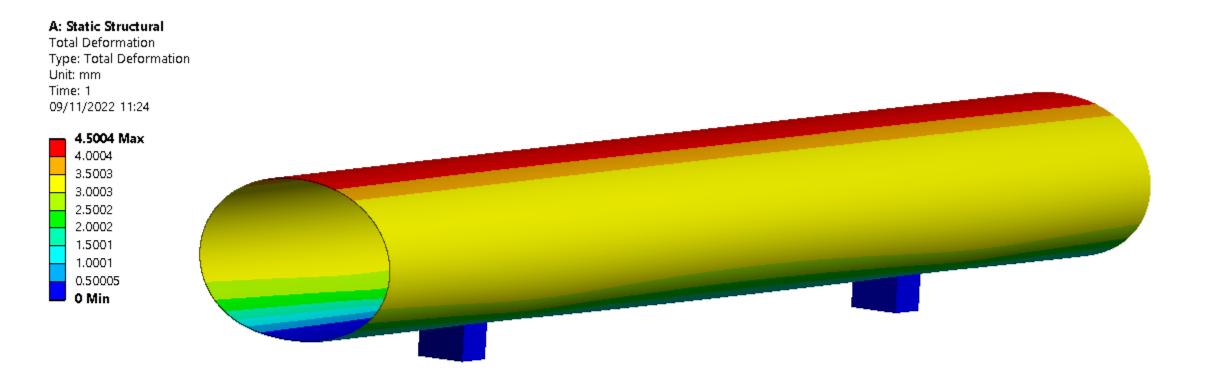
Thermal Analysis



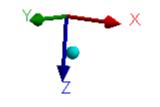
- Support
 - P_{tot}=3.2 W x 3
 - Series of the resistance
- Radiation Vacuum Vessel
 - Ptot=19.1 kW (45.5 m² x 420 W/m²) NO Th. Shield and MLI
 - Need for a thermal shield and MLI
 - Stainless Steel Vacuum Vessel: Polished surface \rightarrow Ptot=24 W
- Coupler
 - Ptot=350 W
 - Need to active cooling and thermal Intercept

Vacuum vessel deformation









Reinforcements needed for buckling



