

Membrane cryostats for large volume neutrino detectors

GTT, a French Engineering company specialized in the design of cryogenic containment systems works with CERN on developments of specific cryostats dedicated to the CERN activities. Thanks to a design done with components well adapted to cryogenic specificities, GTT proposes solutions fulfilling the project needs. A perfect tightness of the containment system associated with high thermal characteristics of insulation space limit the heat exchanges and participate in the argon purity.

After the success of the 17m³ pilot design, a similar design philosophy has been considered for the two future cryostats NP02 and NP04 which will be used by CERN to detect interactions between neutrinos and argon atoms.

Summary

Primary author: Mr PELLÉ, Jérôme (GTT)

Presenter: Mr PELLÉ, Jérôme (GTT)

Session Classification: Cryogenics for detectors (chairperson: Shrikant Pattalwar)