



Contribution ID: 259

Type: **Poster**

C1Po1E-05: Commissioning Results of The ESR 2 Compressors at JLab

Monday 19 May 2025 09:15 (1h 45m)

The future operation of the 4 kW 15 Kelvin MOLLER experiment at Jefferson lab necessitates an increase of cryogenic capacity at the End Station Refrigerator. The current plant is the former 1.5 kW (4.5 K) ESCAR plant that has been operating at Jefferson Lab since 1995. The existing 1.5 kW plant is not able to support the load for MOLLER and will be replaced with a refurbished plant comprised of the cold box and compressors of the 4 kW ASST-A plant from the Superconducting Super Collider in Texas. This paper reports the commissioning results of the warm compressor system and compares the current performance with past commissioning performance for these compressors when they were part of the ASST-A plant.

Author: PERRY, Christopher (Thomas Jefferson National Accelerator Facility)

Co-authors: Mr WHITE, Brendan (Thomas Jefferson National Accelerator Facility); CREEL, Jonathan (Thomas Jefferson National Accelerator Facility); BHATTACHARYA, Ritendra; NORTON, Robert (Thomas Jefferson National Accelerator Facility)

Presenter: PERRY, Christopher (Thomas Jefferson National Accelerator Facility)

Session Classification: C1Po1E - Large Scale Refrigeration I: Helium