



Contribution ID: 436 Contribution code: THU-PO3-802-02

Type: Poster

A preliminary cryogenic performance test of the 4.8-m-long cryostat for superconducting undulators

Thursday 18 November 2021 10:00 (20 minutes)

A 4.8-m-long cryostat has been developed to cool a pair of 1.9-m-long planar superconducting undulator magnets (SCUs). The final design and the thermal model of this cryocooler-cooled LHe-based cryostat has been completed. The cryostat is fabricated and a preliminary cool-down test has been performed. This paper presents a comparison between measured and calculated thermal performance of the 4.8-m-long cryostat for the SCU.

Primary author: Dr SHIROYANAGI, Yuko (Argonne National Laboratory)

Co-authors: ANLIKER, Ethan (Argonne National Laboratory); Dr HU, Hong (Argonne National Laboratory); Dr KESGIN, Ibrahim (Argonne National Laboratory); KASA, Matthew (Argonne National Laboratory); HASSE, QUENTIN (Argonne National Laboratory); Dr IVANYUSHENKOV, Yury (ANL)

Presenter: Dr SHIROYANAGI, Yuko (Argonne National Laboratory)

Session Classification: THU-PO3-802 Cryostats and Cooling systems