



Cryogenics Operations 2018

Contribution ID: 9

Type: **not specified**

Design of the 1.8 K helium cooling test platform for CICC

The superfluid helium (He II) cooled superconducting (SC) magnets show substantially better stability performance than normal helium cooled SC magnets. The thermal-hydraulics characteristics of the 1.8 K pressured helium need to be specified for the design of He II cooled SC magnet. The 1.8 K He II Cable-in-Conduit Conductors (CICC) Test Platform structure design and test procedure design have been finished. In this paper, the details of the test platform structure and the experimental procedure are presented. The test platform will make contribute to the design of the He II cooled SC magnets.

Primary author: Mr ZHANG, Shuai (High Magnetic Field Laboratory,CAS)

Co-authors: Dr LI, JunJie (High Magnetic Field Laboratory,CAS); Prof. OUYANG, ZhengRong (High Magnetic Field Laboratory,CAS)

Presenter: Mr ZHANG, Shuai (High Magnetic Field Laboratory,CAS)