



Contribution ID: 63

Type: **Poster Presentation of 1h45m**

Operation of the helium cryogenic system for the hybrid superconducting outsert at CHMFL

Monday 28 August 2017 13:15 (1h 45m)

A hybrid magnet which is capable of producing more than 40 T steady field has been put into operation early this year at CHMFL. The superconducting outsert of the hybrid magnet is wound with Nb₃Sn CICC and cooled with forced flow supercritical helium at 4.5 K. The helium cryogenic system mainly includes a helium refrigerator and a cryo-distribution box for cooling superconducting coils, structures, transfer line and current leads. This paper highlights the main features and operating situations of the helium cryogenic system.

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Session Classification: Mon-Af-Po1.11

Track Classification: H1 - Cryostats and Cryogenics