Session Program

22–26 Jul 2024

ICEC29/ICMC2024

Wed-Po-2.6

CICG - GENEVA, Switzerland
Rue de Varembé 17, 1202 Genève

Wednesday 24 July

14:00

Wed-Po-2.6: Large Magnet Systems

Poster Session | **Location:** Poster area | **Convener:** Amalia Ballarino

SMES HTS tape length optimization using ANN based digital twin

Speaker
Mr Sumit Kumar Chand

Recent developments of dark matter research magnet systems at Oxford Instruments

Speaker
Yuwei Ge

The Design of a Horizontal Testing Cryostat for the Superconducting curved magnets of Compact Synchrotron

Speaker
Weiyu Qiao

The Design of a Curved Cryostat for the 90° Superconducting Magnet

Speaker
Yang Yao

LHC cryogenics and helium management in case of a major power outage

Speaker
Benjamin Bradu

Design study of a superconducting dipole magnet with active shielding for a heavy-ion rotating gantry

Speaker
Dr Tetsuhiro Obana

A new cryogenic test facility for superconducting magnets at IMP

Speaker
Dr Dongsheng Ni

Effect of thermal contact between gas-cooled REBCO conductors on hot-spot temperature in fusion magnets

Speaker
Ho-Myung Chang

Detailed study of the cryogenic jumper connections between the cryogenic distribution line and the superconducting magnets of the High Luminosity LHC upgrade at CERN

Speaker
Fabio Merli

Mechanical design of the multi-channel liquid helium cryogenic transfer lines

Speaker
Li Zhu

Development status of a NbTi conduction-cooled superconducting quadrupole magnet combined with dipole correctors for the ILC main linac

Speaker
Tomohiro Yamada

Cryostats for the HL-LHC magnets: Pre-series production, assembly infrastructure and project plans

Speaker
Delio Ramos

Investigation of the influence of residual strain of epoxy resin on critical current of HTS tape by using fiber Bragg grating sensors

Speaker
Ms Wanyin Zhao

Assembly process and quality control of the magnet cryostats for the HL-LHC project at CERN

Speaker
Alisdair Douglas Seller

Optimization of 1 T HTS main magnet for Extremity MRI using Real-Coded Genetic Algorithm

Speaker
Mr SUMIT KUMAR CHAND

Development and testing of the internal sliding support for the Cryogenic Distribution Line for the HL-LHC

Speaker
Mr Bartosz Łoziński

High-gradient magnetic separation for wastewater treatment based on direct-conduction cooling superconducting magnets with large diameter, room temperature aperture

Speaker
Chuanjun Huang

Design of the cryogenic system of the CYCIAE-2000 MeV superconducting magnet

Speakers
Ms Suping Zhang, Mr hongji zhou

Operational experience and maintenance strategies developed over nearly three decades of continuous operation of the AGOR superconducting cyclotron cryogenics system

Speaker
Dr Brian Jones

Design of a cryogenic test platform for CICC cooled by superfluid helium forced flow

Speaker
Mr Ziwu Li

Study on Extreme Condition Stability of Miniaturized High-Temperature Superconducting Magnets Based on Sterling Conduction Cooling System

16:00

Speaker
Haiyang Liu