

## **Session Program**

**22-26 Jul 2024**

# **ICEC29/ICMC2024**

## ***Thu-Po-3.6***

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

## Thursday 25 July

14:00

### Thu-Po-3.6: Superconductors, AC Loss & Stability

**Poster Session** | **Location:** Poster area | **Convener:** Alexey Dudarev

#### Performance investigation of multilayer insulation structures with variable metal coating

**Speaker**

wenjie zhou

#### Superconductor - Insulator Transition in Sputtered $ZrN_xO_y$ Thin Films Induced by Tuning RF Power

**Speaker**

Zhen Geng

#### Design and Electromechanical Properties of HTS Twisted Stacked-Tape Conductor with Three Stepped Slots

**Speaker**

Junfeng Yang

#### Characteristics of the Critical Current Capabilities of an Stepped Grooves Structure Superconducting Conductor with Stacked REBCO Tapes

**Speaker**

Junfeng Yang

#### Field-induced phase transition, weak ferromagnetism, and metamagnetic transition in the underdoped PrBCO cuprate

**Speaker**

Prof. Mahieddine Lahoubi

#### Research and development of 650 MHz superconducting cavity for CEPC

**Speaker**

Peng Sha

#### RF response of $REBa_2Cu_3O_{7-x}$ coated conductors under high magnetic fields

**Speaker**

IRFAN AHMED Not Supplied

#### Investigating the Electromechanical Performance of REBCO Tapes for High-Field Magnet Applications

**Speaker**

Dr Aniket Ingrole

#### Thermal conductivity of REBCO tapes with different stabilizers at 4.2 - 200 K

**Speaker**

Jun Lu

#### Temperature uniformity characterization in heat treatment of the $Nb_3Sn$ coils for nuclear fusion

**Speaker**  
Bingkun Lyu

**Understanding AC losses in state-of-the-art superconducting cables: Physics insights from 2D to 3D computational modelling**

**Speaker**  
Matthew Clegg

**Investigation of the emittance properties of multilayer insulation used in cryogenic applications**

**Speaker**  
Uday Kumar

**Improvement in  $J_c$  of KIT-CERN (KC4) REBCO tapes through a study of growth defects**

**Speaker**  
Ms Sukanya Baruah

**Modelling the effect of anisotropic elasticity of REBCO on the mechanics of high field magnets with screening currents**

**Speaker**  
Dr Anang Dadhich

16:00