

## Session Program

18-22 May 2025



# CEC/ICMC 2025 Abstracts & Technical Program

## *M2Or1A - Characterization of REBCO Conductors*

### **II**

Peppermill Reno  
2707 S. Virginia St. Reno, NV 89502

## Tuesday 20 May

09:30

### M2Or1A - Characterization of REBCO Conductors II

Session | Location: Naples 4/5

09:30-10:00

**M2Or1A-01: [Invited] Detection of Local Obstacles in Long REBCO Coated Conductors with Introduction of Machine Learning Based Analysis in High-Speed Reel-to-Reel Magnetic Microscopy**

**Speaker**

Takanobu Kiss

10:00-10:15

**M2Or1A-02: Critical transverse loading limits of REBCO CORC<sup>®</sup>-like cables for fusion**

**Speaker**

Dr Arend Nijhuis

10:15-10:30

**M2Or1A-03: Integrated Platform for 2D Reel-to-Reel Characterization of 2G-HTS Superconductor Combining Raman Spectroscopy, Color Machine Vision, and Curvature Profiling**

**Speaker**

Nathaly Andrea Castaneda Quintero

10:30-10:45

**M2Or1A-04: FEM and Modelica Modelling of Current Sharing in Tape Stack Cables; Influence of ICR, ITR, Defect Number, Defect Patterns, and Thermal Boundary Conditions**

**Speaker**

Minzheng Jiang

10:45-11:00

**M2Or1A-05: Nuclear transmutation effect by thermal neutron on degradation in superconductivity of ReBCO tapes**

**Speaker**

Prof. Arata Nishimura

11:00