

Session Program

May 18 - 22, 2025



CEC/ICMC 2025 Abstracts & Technical Program

M20r1A - Characterization of REBCO Conductors II

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

Tue, May 20

9:30 AM

M2Or1A - Characterization of REBCO Conductors II

Session | Location: Naples 4/5 | Conveners: Jun-ichi Shimoyama, Judy Wu

9:30 - 10:00 AM

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 AM

M2Or1A-02: Critical transverse loading limits of REBCO CORC®-like cables for fusion

Speaker

Dr Arend Nijhuis

10:15 - 10:30 AM

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 AM

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 AM

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

Speaker

Prof. Arata Nishimura

11:00 AM