

Session Program

9-13 Jul 2023



CEC/ICMC 2023 Abstracts & Technical Program

M3Or4P: Experiment and Modelling of Magnetization and AC Losses in Superconductors

Hawaii Convention Center

Wednesday 12 July

16:15

M3Or4P: Experiment and Modelling of Magnetization and AC Losses in Superconductors

Session | Location: 323A | Conveners: Mike Sumption, Prof. Naoyuki Amemiya

16:15-16:45

M3Or4P-01: [Invited] AC Loss simulation and system-wide analysis on a Single-Phase 6.5 MVA HTS Traction Transformer for Chinese High-Speed Trains

Speaker

Dr Zhenan Jiang

16:45-17:00

M3Or4P-02: AC Loss of Metallic and Superconductor Electric Wires at high $B \cdot dB/dt$ Measured by Calorimetric Method for High Power Density Rotating Machines

Speaker

Timothy Haugan

17:00-17:15

M3Or4P-03: Accuracy comparison of screening current modelings of REBCO pancake coils

Speaker

So Noguchi

17:15-17:30

M3Or4P-04: Understanding and Minimizing AC losses in CORC cables of YBCO superconducting tapes

Speaker

Dr Linh Nguyen

17:30-17:45

M3Or4P-05: Magnetization ac losses, magnetization measurement, and creep analysis of Ni-plated Roebel Cable for particle accelerator applications

Speaker

Shengchen Xue

17:45-18:00

M3Or4P-06: FEM analysis of Magnetization AC loss in REBCO coated conductor tape and helical wound tape conductors

Speaker

Tushar Garg

18:00-18:15

M3Or4P-07: AC Losses and Surprising Magnet Heating in Reciprocating Active Magnetic Regenerative Refrigerators

Speaker

Corey Archipley

18:15