

Session Program

1-6 Jul 2025



MT29 Abstracts and Technical Program

Fri-Mo-Or6 - Quench Detection and Protection I

Omni Boston Hotel at the Seaport
450 Summer Street Boston, MA 02210

Friday 4 July

11:15

Fri-Mo-Or6 - Quench Detection and Protection I

Session | Location: Momentum EFG | Conveners: Joshua Feldman, Maxim Marchevsky

11:15-11:30

Fri-Mo-Or6-01: First demonstration of the ESC quench protection concept on a common-coil magnet

Speaker

Dr Emmanuele Ravaioli

11:30-11:45

Fri-Mo-Or6-02: A fully 3D thermal-hydraulic and electric model for the simulation of quench propagation in HTS conductors for fusion

Speaker

Andrea Zappatore

11:45-12:00

Fri-Mo-Or6-03: Design and implementation of an acoustic waveguide quench detection and localization sensor for the HTS Uni-layer magnet prototype

Speaker

Davide Cuneo

12:00-12:15

Fri-Mo-Or6-04: A Voltage-Based Quench Detection and Fast Discharge System for High-Temperature Superconductor Devices at MIT PSFC's Superconducting Magnet Test Facility

Speaker

Theodore Golfinopoulos

12:15-12:30

Fri-Mo-Or6-05: A pulse forming network for quench protection of superconducting magnets

Speaker

John Rogers

12:30