

HTS4FUSION & MEM

5th HTS4Fusion Conductor Workshop

10th MEM Mechanical and Electromagnetic
Properties of Composite Superconductors

Welcome to Karlsruhe
NEW Dates in 2022 !

Feb 2022 — Registration opens
Apr 17 2022 — Abstract submission deadline
May 2022 — Abstract notification
June 03 2022 — Registration deadline
June 26-29 2022 MEM Workshop
June 29-July 01 2022 HTS4Fusion Workshop
tbd — Manuscript submission deadline
SUST Focus Issue

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Germany
Karlsruhe Institute of Technology
Joint Workshop 26 June-01 July 2022

www.itep.kit.edu/mem-hts4fusion2022/

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The MEM21 workshop is an opportunity to present recent progress and development of the mechanical and electromagnetic properties of LTS and HTS composite superconductors.

- LTS, MgB₂, Fe based SC, BSCCO, REBCO Wires and Tapes
- Electromechanical Characterization
- Electromagnetic Properties
- Microscopic Studies of Strain Effects
- Development of Coated Conductors
- Stress and Strain Measurement in Cables and Superconducting Devices
- Parametric Studies and Modelling of Strain Effects
- Microstructure, Properties and Sensitivity of HTS Tapes
- Joints (Superconducting & Resistive)
- High Field Magnets/MCI Coils Application
- Standardization Activities: VAMAS, Benchmarks

The "HTS4Fusion Conductor Workshop" focuses on High-Temperature Superconductor (HTS) application for fusion research, e.g. HTS conductors for fusion magnets.

- Large-Current Conductors for Fusion Magnets
- HTSCable Concepts
- Thermal Stability and Quench
- Mechanical and Electrical Stability
- Thermo-Hydraulics and Cooling
- AC Losses-Current Distribution and Shielding
- Modeling-Irradiation Effects
- Large-Current Conductor Test Facilities

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