09:00 Opening

09:30- 11:00 “50 years of Critical State” memorial session, Auditori Hall

Chair: A. Campbell

- **T. Johansen** “The critical-state seen by magneto-optical imaging”
- **L. Prigozhim** “Electric Field Formulation for Thin Film Magnetization Problems” A. Sánchez “50 years of critical-state: a historical view”
- **A. Sánchez** “50 years of critical-state: a historical view”

11:00- 11:30 Cofee Break

11:30-13:30 Critical State session , Auditori Hall

Chair: A. Morandi, A. Stenvall

- **Carlos López** “Electromagnetics close beyond the critical state: thermodynamic prospect”

- **V. Sokolovsky** “AC losses in thin coated conductors under non-sinusoidal conditions”
- **E. Pardo** “Fast simulation method for optimisation of real-size superconducting windings”

- **S. Farinon** “Applicability of the adaptive resistivity method to describe the critical state of complex superconducting systems”
- **C. Navau** “Modelling the control of magnetic fields with superconductor-metamaterial hybrids systems”

13:30- 15:00 Lunch & networking and Museum visit

15:00-16:30 Finite Elements I , Auditori Hall

Chair: E. Pardo , A. Badía

- **A. Campbell** “Simulation studies on the magnetisation of (RE)BCO bulk superconductors using various split-coil arrangements”
- **A. Stenvall** “Modelling self-field hysteresis losses of helicoidal structures in two dimensions with finite element method”
- **V. Lathinen** “Eddy-Current Formulations for Superconductor Hysteresis Loss Modelling
- **V. Zermeño** ”3D simulation of Roebel cables”

16:30-17:00 Cofee Break

17:00-18:45 Finite Elements II , Auditori Hall

Chair: F.Gömöry, S. Farinon

- **T. Coombs** “Flux pumping, fluctuations and forces”
- **P. Vanderbemden** “Magnetic shielding properties of a cut superconducting hollow cylinder : modelling and experiment”
- **M. Stepien** “Transient state modeling in HTS using ANSYS APDL”
- **S. Mezani** “Frequency Domain Computation of Eddy Currents in Superconductors”
- **M. Zahn** “New progress of finite element modeling for 2G HTS coils”
- **E. Díez** “Simplified local model for the mechanical interaction between a finite magnet and a superconductor in the Meissner state”