09:00-10:45 Devices session , Àgora Hall

Chair: T. Coombs, V. Sokolovsky

- **D. Collangelo** ” Inhomogeneity Effects in HTS Coated Conductors Used as Resistive FCLs in Medium Voltage Level Grid”
- **A. Álvarez** “SIMULINK model of free-stabilized, externally-shunted 2G superconducting tapes for SFCL applications”
- **C. Boffo** “Design optimization and prototype fabrication of HTS magnets”
- **W. Li** “Finite element models for quench behavior of YBCO coated conductors”
- **L. Graber** “Designing a Shielded-Core Superconducting Fault Current Limiter using Finite Element Analysis”

10:45-11:15 Cofee Break

11:15-13:00 Methods Improvement session, Àgora Hall

Chair: F. Sirois, C. Navau

- **F. Gömöry** “Electromagnetic energy flow and dissipation in superconducting coils”
- **A. Morandi** “A novel integral approach to the 2D modeling of superconductors by means of the bounded E-J power law”

- **A. Badel** “Hybrid model of quench propagation in Coated Conductors”
- **J. Pina** “A Matlab tool for the determination of current densities in HTS multiseed bulk samples based on sand pile model and genetic algorithms”
- **S. Nemdili** “A simulation model of Superconducting Fault Current Limiter”

13:00- 14:30 Lunch & networking and Museum visit

14:30- 16:00 Other Methods session, Àgora Hall

Chair: P. Vanderbemden , B. Dutois

- **A. Morandi** “The straight approximation of the current loop: equivalence between 2D models of superconductor with axial translational symmetry”
- **J. Amorós** “Modelling and current distribution computation in HTS samples”
- **K. Berger** “Analytical Modeling of Bulk Superconductor in a Coil”
- **K. Klimenko** ”Electrodinamics of isotropic superconductors”

16:00- 16:30 Cofee Break

16:30- 18:00 Posters session

Chair: P. Suárez, N. del Valle, A. Álvarez

- **J. Pérez-Díaz** ” Experimental determination of the first penetration field in high-temperature superconductors by mechanical methods”

- **S. Nemdili** “High Temperature Superconductor Fault Current Limiter Operating Principle and Results”
- **S. Agramunt-Puig** “Modelling Superconductor and Ideal Soft Ferromagnet Hybrids: Application to Levitation”
- **G. Via** “Response of thin superconducting plates to an externally applied magnetic field
- **P. Suárez** ” FEM estimation of the magnetic field in a screened ferromagnetic core for a Resistive-Inductive SFCL”

- **B. Grezsik** “Modeling of quench in 2G tape using 2D ANSYS model”
- **S. Kirsch** “AC losses of an infinitely long superconductor cylinder surrounded by a metallic sheath”

- **V. Zermeño** “Transient response of HTS generator”
- **V. Zermeño** “A homogenization technique to calculate AC losses in HTS stacks”
- **G. del Rosario** ” Electrical-thermal coupled model of second generation HTS cables for application in power system simulations”