



Symposium D : Magnetic and Superconducting Materials: a Symposium in honor of Sergio Machado Rezende

Scope of the Symposium

The symposium is intended to bring together scientists and engineers interested in all aspects of experimental and theoretical research in magnetic and superconducting materials, as well as in their technological applications. Contributions are expected in topics ranging from basic properties to recent developments in magnetism and superconductivity at nanoscale. Emphasis will be given on new materials, properties and devices. In this edition the Symposium will be held in honor of Prof. Sergio Machado Rezende, in recognition to his contributions to the field of Magnetism and to the Brazilian Science.

Abstracts will be solicited in (but not limited to) the following areas

- *Fundamental magnetic properties*
- *Magnetism in nanostructured materials*
- *Magnonics and relates*
- *Spintronics, interface effects, topological insulators, spin dependent transport and related*
- *Micromagnetism, non trivial spin structures, vortices, skyrmions and related*
- *Magnetocaloric Materials and Multiferroics*
- *Fundamental superconductor properties*
- *Spin and charge excitations, interaction between magnetism and superconductivity*
- *Devices and applications of magnetic and superconducting materials*
- *Magnetization dynamics, Barkhausen noise and related*
- *Scientific instrumentation in magnetism and superconductivity*

List of invited speakers

Sergio Machado Rezende (symposium closing plenary) (UFPE) **C. L. Chien** (Johns Hopkins University) **Anders Bergman** (Uppsala University) **Burkhard Hillebrands** (Technische Universität Kaiserslautern) **Stuart Parkin** (Max Planck Institute of Microstructure Physics) **Alejandro V. Silhanek** (Université de Liège) **Anna Palau** (Institut de Ciència de Materials de Barcelona) .

Symposium Organizers

Rubem L. Sommer (CBPF) **Antonio Azevedo da Costa** (UFPE) **Wilson Ortiz** (UFSCar) **Paulo Pureau Neto** (UFRGS) .

<https://sbpmat.org.br/19encontro>

XIX Brazil MRS Meeting