



Symposium A: Magnetic and Superconducting Materials

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.

Topics

Participants are invited to submit abstracts related to the topics listed below. Contributions in other areas of magnetism and superconductivity will also be considered.

- Fundamental magnetic properties
- Hard and soft magnetic materials and applications
- Disordered magnetic materials
- Magnetocaloric materials
- Multiferroics
- Magnetic semiconductors; magnetism in carbon-based materials
- Magnetism in nanoparticles, nanowires, films, multilayers and other nanostructured materials ; molecular magnetism
- Exchange bias
- Magnetization dynamics and micromagnetism
- Spintronics in metals and semiconductors; spin dependent transport
- Applied magnetism and instrumentation; biomedical applications
- Magnetic recording
- Low-Tc superconductors
- Cuprate and iron-pnictide superconductors
- Interaction between magnetism and superconductivity

Tentative list of invited speakers

Daniel R. Cornejo (Brazil);

Kleber R. Pirotta (Brazil);

Sergio M. Rezende (Brazil);

José Albino Oliveira de Aguiar (Brazil);

Elisa Maria Baggio Saitovitch (Brazil);

Jairo Roa-Rojas (Colombia);

X Encontro da SBPMat

Gramado-RS

25 a 29 | setembro
2011



X Brazilian MRS Meeting 2011

Julian Penkov Geshev (Brazil);
Martin Sirena (Argentina);
Yanina Fasano (Argentina)

Organizers

Renato F. Jardim (Instituto de Física – USP)
Rubem L. Sommer (CBPF)
Paulo Pureur (Instituto de Física – UFRGS)
Julio Guimpel (Centro Atomico Bariloche)