

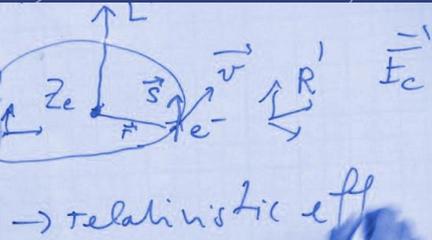


EUROPEAN SCHOOL ON MAGNETISM

2013

MAGNETISM FOR ENERGY FROM FUNDAMENTALS TO MATERIALS

Feb 25 - Mar 8 [2013]
Cargèse, Corsica
France



<http://magnetism.eu/esm>

Organizing committee

Nora DEMPSEY
(chair), Grenoble
Oliver GUTFLEISCH
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Olivier FRUCHART, Grenoble
Olivier ISNARD, Grenoble
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Scientific committee

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N. SPALDIN, Zürich
J. SPAŁEK, Krakow
W. WULFHEKEL, Karlsruhe

Scope

The European School on Magnetism (ESM) is a joint action of the European magnetism community, and is organized in cooperation with the JEMS conference (Joint European Magnetic Symposia). ESM aims at providing young scientists with a thorough up-to-date insight into the fundamentals of magnetism.

As with previous sessions of ESM, the 2013 School is based on a broad range of lectures, with special attention given to a specific topic. The topic selected for 2013, Magnetism for Energy, covers a wide range of phenomena and materials, dealing with both fundamental issues of condensed matter physics and materials science, and addressing applications and wider environmental issues.

Topics

- ▶ Basic concepts
- ▶ Magnetism in matter
- ▶ Temperature effects
- ▶ Magnetic characterization
- ▶ Magnetization processes
- ▶ Functional materials
Including permanent magnets, magneto-caloric, soft, shape memory alloys) and devices.
- ▶ Spintronics
Including spin transfer, spin currents and Seebeck, electric field effects
- ▶ Industry perspectives

Means of learning

Promoting a close interaction between lecturers and attendees is a crucial aspect of ESM. To achieve this, the programme will alternate between lectures, question sessions, analytical and numerical practicals, access to a library dedicated to magnetism, and poster sessions dedicated to the attendees' activities.

Lecturers

O. Cugat (fr), N. Dempsey (fr), S. Fähler (de), F. Fiorillo (it), V. Franco (es), O. Fruchart (fr), O. Gutfleisch (de), G. Herzer (de), L. Heyderman (ch), G. W. Jewell (uk), M. Kuzmin (de), C. Lacroix (fr), L. Lombard (fr), S. Picozzi (it), K. Sandeman (uk), S. O. Valenzuela (es), M. Viret (fr), W. Wulfhekel (de).

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MAGNETICS COMMUNITY

