

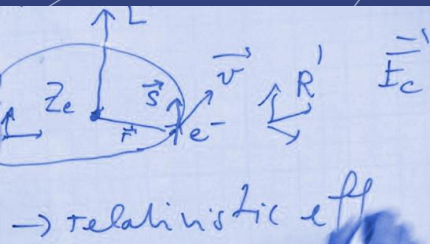


EUROPEAN SCHOOL ON MAGNETISM

2013

MAGNETISM FOR ENERGY FROM FUNDAMENTALS TO MATERIALS

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



<http://magnetism.eu/esm>

Organizing committee

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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.

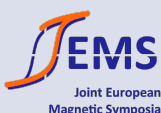
As with previous sessions of ESM, the 2013 School is based on a broad series of fundamental lectures, with special attention given to a specific topic. The topic selected for 2013, Magnetism for Energy, covers a wide range of phenomena and materials, dealing with both fundamental issues of condensed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



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