

# Boulder School for Condensed Matter and Materials Physics

## *Frontiers of Magnetism*

June 30 - July 25, 2003

### List of Lecturers and Topics:

|                          |  |
|--------------------------|--|
| <b>Daniel Arovas</b>     | <i>Quantum mechanic's toolbox</i>          |
| <b>Michael Coey</b>      | <i>Oxide &amp; semiconductor magnetism</i> |
| <b>Daniel Cox</b>        | <i>Quantum impurity problems</i>           |
| <b>Anupam Garg</b>       | <i>Spin semiclassics</i>                   |
| <b>Olle Heinonen</b>     | <i>Computational applied magnetics</i>     |
| <b>Frances Hellman</b>   | <i>Experimental magnetism</i>              |
| <b>Claire Lhuillier</b>  | <i>Frustrated magnets</i>                  |
| <b>Allan MacDonald</b>   | <i>Semiconductor spintronics</i>           |
| <b>Brian Maple</b>       | <i>Magnetic impurities in metals</i>       |
| <b>Andrew Millis</b>     | <i>Magnetic oxides</i>                     |
| <b>Stuart Parkin</b>     | <i>Spintronics</i>                         |
| <b>Daniel Ralph</b>      | <i>Nanomagnets</i>                         |
| <b>Subir Sachdev</b>     | <i>Quantum criticality</i>                 |
| <b>Richard Scalettar</b> | <i>Computational quantum magnetism</i>     |
| <b>B. Sriram Shastry</b> | <i>Microscopic basis of magnetism</i>      |
| <b>Nicola Spaldin</b>    | <i>Electronic structure methods</i>        |
| <b>Harry Suhl</b>        | <i>Modern micromagnetism</i>               |
| <b>Yuri Suzuki</b>       | <i>Fabricated magnetic structures</i>      |
| <b>W. Wernsdorfer</b>    | <i>Molecular magnets</i>                   |

The scientific coordinators of the 2003 school are Daniel Arovas (UC San Diego), Anupam Garg (Northwestern) and Nicola Spaldin (UC Santa Barbara).

The school will pay for most local expenses, and there are travel grants available for participants from U.S. universities. Students and postdocs interested in participating should submit an electronic application by the March 1 deadline. The application form, and detailed information regarding housing, travel and financial support are available at

<http://research.yale.edu/boulder>

The Boulder school in Condensed Matter and Materials Physics provides expert training, not usually available within the traditional system of graduate and post-graduate education, for advanced graduate students and postdoctoral researchers working in condensed matter physics, materials science and related fields. The School is supported by the National Science Foundation, with additional funding provided by the University of Colorado and NIST, and meets annually during July in Boulder, Colorado.