Boulder Summer School in Condensed Matter and Materials Physics

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University of Colorado

DMR-9987640

June 30-July 25, 2003

Frontiers of Magnetism: Theory, Experiment, and Applications

Scientific Coordinators: Daniel Arovas, Anupam Garg, Nicola Spaldin
Site Coordinator: Leo Radzihovsky

Some 60 graduate students from around the world had the opportunity to learn about both basic and advanced physics of magnetism and magnetic materials.

For more information see: http://research.yale.edu/boulder

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Education:

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- **Student Poster Sessions**
- **Student organized seminars**
- **Discussion groups**
- **Lecture notes on the web** http://research.yale.edu/boulder
- **Lecturers**

Daniel Arovas	***A Quantum Mechanic's Tool Box***
Michael Coey	***Oxide and Semiconductor Magnetism***
Daniel Cox	***Quantum Impurity Problems***
Anupam Garg	***Spin Semiclassics***
Olle Heinonen	***Computational Applied Magnetics***
Frances Hellman	***Fundamentals of Expt. Magnetism***
Claire Lhuillier	***Frustrated Magnets***
Allan MacDonald	***Semiconductor Spintronics***
Brian Maple	***Magnetic Impurities in Metals***
Andrew Millis	***Theory of Magnetic Oxides***
Stuart Parkin	***Spintronics***
Daniel Ralph	***Nanomagnets***
Subir Sachdev	***Quantum Criticality in Magnets***
Richard Scalettar	***Computational Quantum Magnetism***
B. Sriram Shastry	***The Microscopic Basis of Magnetism***
Nicola Spaldin	***Electronic Structure Methods***
Harry Suhl	***Modern Micromagnetism***
Yuri Suzuki	***Fabricated Magnetic Structures***
W. Wernsdorfer	***Molecular Magnets***

Outreach:

PUBLIC LECTURES

Magnets: Science, Technology, and 'Magic Tricks'
Professor Frances Hellman
UC San Diego
July 2, 7:30 pm

A New Spin on Electronics
Dr. Stuart Parkin
IBM Almaden
July 10, 7:30 pm