

Boulder School for Condensed Matter and Materials Physics

Coherence and Interactions in Atomic and Condensed Matter Systems

July 5 - July 30, 2004

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Review of Bose-Einstein Condensation
BEC in Optical Lattices
Quantum Phase Transitions
Feshbach Resonances and Molecular Condensates
Rotating BECs
Topological Order
Cold Fermions

Novel Trends in Quantum Optics
Cavity QED
Trapped Ions
Semiconductor Quantum Optics

Quantum Coherence in Mesoscopic Systems
Superconducting quantum bits
Quantum dots
Noise and Correlations

Scientific Organizers:

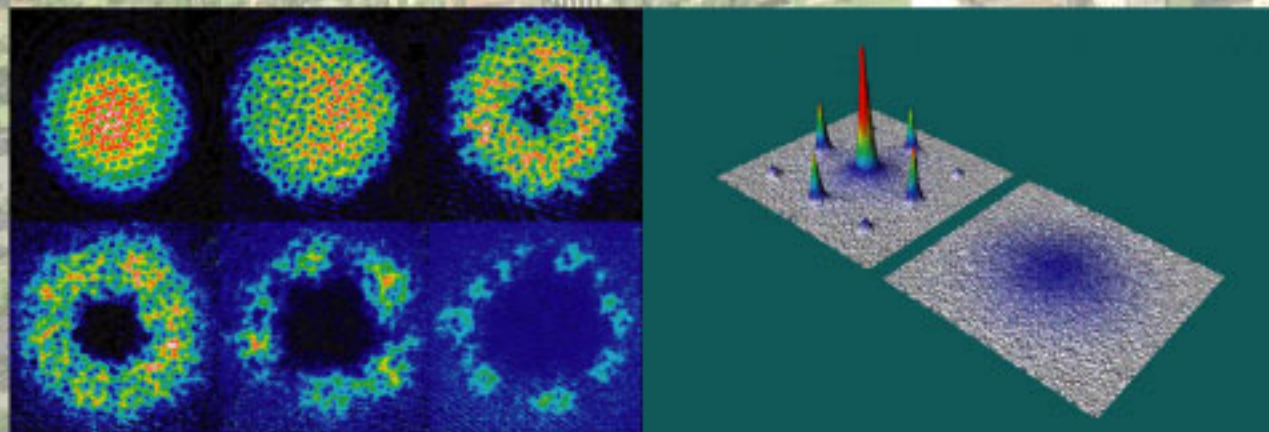
Eugene Demler, Mikhail Lukin, Ehud Altman,
Eric Cornell and Steven Girvin.

Local Organizer: Leo Radzihovsky.

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.



*to be confirmed