

March Meeting 2009

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[V38. Focus Session: The Transition State in Physics, Chemistry, and Astrophysics II](#)
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[Session W](#)

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[W2. Progress in Understanding the Nature of the 5/2 Fractional Quantum Hall State](#)
[W3. Physics of Circulating Tumor Cells and Metastasis](#)
[W4. Recent Progress in Spin-Spiral Ferroelectricity](#)
[W5. Physics Meets Art](#)
[W6. Progress on Quantum Optics with Circuit Quantum Electrodynamics](#)
[W7. Information Theory in Biology](#)
[W8. Forefront Detectors for Synchrotron Radiation](#)
[W9. Systems Far from Equilibrium III](#)
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[W11. Focus Session: Transport Properties of Nanostructures VI: Kondo Phenomena](#)
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[W14. Granular Flow](#)
[W15. Biologically Inspired Physics: Self-Assembly, Filaments, Membranes](#)
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[W17. Quantum Algorithms, Simulation, and Error Correction](#)
[W18. Focus Session: Mechanical Force Spectroscopy and Device Applications of Polymeric and Biological Materials](#)
[W19. The Physics of Polymer Nanocomposites: Grafting and Dispersion](#)
[W20. Theory and Simulation III](#)
[W21. Dopants and Defects in Semiconductors IV](#)
[W22. Focus Session: Dilute Magnetic Nitride Semiconductors](#)
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[W26. Focus Session: Graphene XVI: Functionalization and Growth I](#)
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Session X

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[X2. Vortex Dynamics and Josephson Lasers in Superconductors](#)
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[X4. Responsive Gels at Surfaces and in the Bulk](#)
[X5. Active Soft Matter: From Granular Rods to Flocks to Living Cells](#)
[X6. Rahman Prize Lecture and Theory of Multiferroics](#)
[X7. DNA Loop Formation, Nucleosome Positioning and Transcriptional Regulation](#)
[X8. 50 Years of Anderson Localization](#)
[X9. Focus Session: Jamming: Theory and Experiment II](#)
[X10. Insulators and Dielectrics: Defects, Structure, and Mechanical and Dynamical Properties](#)
[X11. Fermions in Optical Lattices II](#)
[X12. Structure and Morphology of Oxide Surfaces and Thin Films](#)
[X13. Density Functional Methods: Applications](#)
[X14. Micro and Nano Fluid Mechanics](#)
[X15. Liquid Crystals II](#)
[X16. Liquid Helium](#)
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[X18. Elastomers and Gels I](#)
[X19. Charged and Ion-containing Polymers](#)
[X20. Long Range Order in Polymer Structures and Morphologies](#)
[X21. Spectroscopic Studies of Semiconductor Structure and Their Growth](#)
[X22. Focus Session: Magnetism in II-VI and IV Semiconductors](#)
[X23. Quantum Hall Effect: Quantum Computation](#)
[X24. Hydrogen Storage: Complex Hydrides](#)
[X25. Focus Session: Graphene XVII: p-n Junctions, Nanoribbons, and Quantum Dots](#)
[X26. Nanowire & Nanotube Synthesis and Properties](#)
[X27. Optoelectronic Devices and Applications](#)
[X28. Focus Session: Magnetoelectric Coupling in Multiferroic Systems](#)
[X29. Focus Session: Current Induced Dynamics in Magnetic Tunnel Junctions and Spin Waves](#)
[X30. Focus Session: Cobaltites](#)
[X31. Focus Session: Magnetic Nanostructures: Domain Walls, Reversal, Oscillators](#)
[X32. Cooperative Phenomena \(incl. Spin Structures, Spin Waves, Phase Transitions\) II](#)
[X33. MgB₂ and Multigap Superconductivity](#)
[X34. Superconductivity: Magnetic Field Effects](#)
[X35. Focus Session: Iron Pnictides and Other Novel Superconductors XV: Electronic Structure and Magnetism](#)
[X36. Glassy, Amorphous, and Quasicrystalline Materials](#)
[X37. Spectroscopy and Dynamics of Single Molecules and Nanoparticles](#)
[X38. Focus Session: Ion Channel Physics and Chemical Physics II](#)
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[X40. Proteins in Membranes](#)
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[Y2. Advances in Optical Microscopy](#)
[Y3. Multi-valley Electron Systems in the Quantum Limit](#)
[Y4. New insight into Exchange Bias from Advanced Scattering Techniques](#)
[Y5. Self-Organization in Biological Cells and Tissues II](#)
[Y6. Novel Orbital Quantum Phases in Cold Atom Optical Lattices](#)
[Y7. The Statistical Properties of Forces in Jammed Granular Matter](#)
[Y8. Pushing the Limits of Mechanical Detection](#)

[Y9. Stochastic Processes in Biological Systems II](#)
[Y10. Focus Session: Optical Properties of Nanostructures VI: Artificially Structured Materials](#)
[Y11. Superlattices and Nanostructures - Electronic Properties](#)
[Y12. Electronic and Lattice Properties, Including Quantum Size Effects](#)
[Y13. General Theoretical and Computational Methods](#)
[Y14. Nonequilibrium and Templated Assembly](#)
[Y15. Liquid Crystals III](#)
[Y16. Elastomers and Gels II](#)
[Y17. Focus Session: Quantum Metrology and Nanomechanics](#)
[Y18. Focus Session: Surface Instabilities and Adsorbed or Grafted Layers](#)
[Y19. Surfaces and Adsorption I](#)
[Y20. Biological-Synthetic Hybrid Materials](#)
[Y22. Focus Session: Spin Resonance in Semiconductors](#)
[Y24. Focus Session: Hydrogen Storage: Atomic and Molecular Motions](#)
[Y25. Focus Session: Graphene XVIII: Functionalization and Growth II](#)
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[Y27. Mechanical Properties of Nanomaterials](#)
[Y28. Nanotechnology I](#)
[Y29. Focus Session: Spin Liquids](#)
[Y30. Focus Session: LAO/STO Interfaces](#)
[Y31. Focus Session: Neutron Scattering](#)
[Y32. Focus Session: Current-Induced Magnetic Switching](#)
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[Y35. Focus Session: Iron Pnictides and Other Novel Superconductors XVI: Hc2 and Vortex Dynamics](#)
[Y36. Organic and Hybrid Surfaces and Interfaces](#)
[Y37. Mesoscopic Systems, Clusters, and Nanoscale Systems I](#)
[Y38. Surfaces, Interfaces, and Colloids I](#)
[Y39. Techniques in Biophysics](#)
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Session Z

[Z1. Quasiparticles and non-Abelian Statistics in the 5/2 State](#)
[Z2. Detection of Non-Gaussian Noise in Mesoscopic Systems](#)
[Z3. Non-viral Based Gene Delivery Systems: Opportunities, Obstacles and Challenges](#)
[Z4. Biological Polyelectrolytes](#)
[Z5. Physics in the Aerospace Industry](#)
[Z6. Impact of NSF's TeraGrid on Physics Research](#)
[Z7. Nanoprobes of Molecules and Cells](#)
[Z8. Statistical Physics in Biology](#)
[Z9. Nonlinear Dynamics and Chaotic Systems](#)
[Z10. Insulators and Dielectrics: Dielectric, Thermal, and Transport Properties](#)
[Z12. Phase Transitions at Surfaces](#)
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[Z17. Spin Qubit Coherence and Control](#)
[Z18. Surfaces and Adsorption II](#)
[Z19. Semi-Crystalline Polymers](#)
[Z20. Polymer Blends](#)
[Z22. Focus Session: Quantum Spin Hall Effect](#)
[Z24. Hydrogen Storage: Dopants and Catalysts](#)
[Z25. Focus Session: Graphene XIX: Electronic Properties](#)
[Z26. Composite and Porous Media](#)
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[Z37. Mesoscopic Systems, Clusters, and Nanoscale Systems II](#)
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