

# March Meeting 2010

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#### [Session U](#)

[U1. Nobel Prize Session](#)  
[U4. GIMS Business Meeting](#)  
[U10. Panel Discussion: Fuels of the Future](#)  
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#### [Session V](#)

[V1. Structure, Magnetic Properties, and Superconductivity in the Pnictides](#)  
[V2. Relaxation and Dynamic Heterogeneity and Glass](#)  
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[V22. Quantum Hall Effect in Graphene](#)

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[V24. Focus Session: Dielectric, Ferroelectric, and Piezoelectric Oxides -- Bulk Ferroelectrics I](#)

[V25. Focus Session: Dopants and Defects in Semiconductors - Oxides, general](#)

[V26. Focus Session: Superconducting Qubits](#)

[V27. Focus Session: Attosecond Science and Strong Field Chemical Physics I](#)

[V28. Focus Session: Charge Transport in Nanostructures I](#)

[V29. Optical/Laser Devices and Applications](#)

[V30. Nanotechnology Applications: NEMS, CNTs, Graphene, and Nanoscale Devices](#)

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[V34. Focus Session: Frustrated and Low-D Magnetism -- Quantum Magnetism I](#)

[V35. Focus Session: Spins in Semiconductors -- Carbon-based Systems](#)

[V36. Spin Transport in Metals including GMR](#)

[V37. Focus Session: Complex Oxide Thin Films -- Multiferroics and Tunneling](#)

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[V40. Superconducting Vortices: Pinning & Lattice Effects](#)

[V41. Superconductor-Insulator Transitions](#)

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[W1. Direct Imaging of Crystal Nucleation](#)

[W2. Drop-based Microfluidics for Use with Soft-materials and Biology](#)

[W3. Adler, McGroddy, and Pake Award/Prize Session](#)

[W4. Electric Voltages Generated by Magnetization Dynamics](#)

[W5. Renewable Energy Education](#)

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[W7. Biological Networks](#)

[W8. Scanned Probe Microscopy of Novel Materials and Systems](#)

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[W11. Proteins: Structure, Function, and Folding](#)

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[W13. Focus Session: Jamming II](#)

[W14. Focus Session: Optics of Nanostructures -- Quantum Dots II](#)

[W15. Surfaces, Thin Films, and Nanostructures](#)

[W16. Focus Session: Organic Electronics and Photonics: Transistors and Light Emitting](#)

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[W17. Focus Session: Dynamics of Polymers and Complex Fluids III](#)

[W18. Focus Session: Polymer Network Mechanics I](#)

[W19. Focus Session: Synchrotron X-ray and Neutron Techniques in Soft Matter and Biological](#)

[W20. Graphene Spectroscopy](#)

[W21. Focus Session: Graphene: Strain](#)

[W22. Graphene Nanoribbons](#)

[W23. Solid Helium II](#)

[W24. Focus Session: Dielectric, Ferroelectric, and Piezoelectric Oxides -- Bulk Ferroelectrics II](#)

[W25. Semiconductor Growths and Wide Bandgap Semiconductors](#)

[W26. Quantum Control and Resources for Quantum Computing](#)

[W27. Focus Session: Attosecond Science and Strong Field Chemical Physics II](#)

[W28. Focus Session: Charge Transport in Nanostructures II](#)

[W29. Focus Session: Thermoelectrics V: III-V's & Nanostructures](#)

[W30. Focus Session: High Pressure IV: Dynamics of Shock Induced Phase Transitions](#)

[W31. Non-equilibrium Quantum Dynamics in Atomic Systems](#)  
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[W37. Focus Session: Complex Oxide Thin Films -- BiFeO<sub>3</sub> Multiferroics](#)  
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[W41. Focus Session: Search for New Superconductors - Silicides, Nickelates and Cobaltates](#)  
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[X1. Nanostructure Studies of Strongly Correlated Materials](#)  
[X2. Quantum Simulation of Strongly Correlated Systems with Cold Atoms in Optical Lattices](#)  
[X3. Magnetic Monopoles and Dirac Strings in Condensed Matter](#)  
[X4. Dynamics of Nano-confined Polymer Films](#)  
[X5. Emerging Tomographic Algorithms: From Bending Molecules to Beating Hearts](#)  
[X6. The Neural Dynamics of Songbirds](#)  
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[X9. QHE: High Filling Factors and Weak Fields](#)  
[X10. Virology and Medical Physics](#)  
[X12. General Fluid Mechanics: Surface and Thermal Effects](#)  
[X13. Focus Session: Jamming III](#)  
[X14. Nanowires and Nanotubes: Devices and Applications](#)  
[X15. Structural and Electronic Properties of Metals I](#)  
[X16. Focus Session: Organic Electronics and Photonics: Electronic Structure and Interfaces](#)  
[X17. Charged and Ion-Containing Polymers I](#)  
[X18. Focus Session: Polymer Network Mechanics II](#)  
[X19. Focus Session: Polymer Colloids: Particle Interactions and Assembly](#)  
[X20. Focus Session: Carbon Nanotubes: Optical Studies](#)  
[X21. Focus Session: Graphene: Devices](#)  
[X22. Focus Session: Carbon Nanotubes: Absorption and Defects](#)  
[X23. Many Body I](#)  
[X24. Focus Session: Dielectric, Ferroelectric, and Piezoelectric Oxides -- Defects and Relaxors](#)  
[X25. Quantum Structures](#)  
[X26. Superconducting Qubits: Coherent Phases in Superconducting Resonators](#)  
[X27. Focus Session: Chemical Control of the Properties of Complex Oxides I](#)  
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[X33. Focus Session: Foundations of Quantum Theory](#)  
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[X35. Focus Session: Spins in Semiconductors -- Spin Dynamics](#)  
[X36. Focus Session: Bulk Properties of Complex Oxides -- Novel Systems](#)  
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[X39. Focus Session: Iron Based Superconductors: Spin Excitation](#)  
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[X42. Physics Education: Research, Techniques, Classic Experiments, and Policy](#)

#### [Session Y](#)

[Y1. Extended Quantum Criticality - The Link Between Heavy Fermions and Cuprate Superconductors?](#)

[Y2. Composite Fermions: Recent Advances in States and Excitations](#)

[Y3. Two-particle Entanglement with Single Particle Emitters](#)

[Y4. Microscopic Physics of Magnetization Damping](#)

[Y5. Conductance and Coherence in Nanotubes and Nanobeams](#)

[Y6. Quantum Hydrodynamics](#)

[Y7. Convergence of Physics and Life Sciences: Emerging Perspectives in Cancer](#)

[Y8. Ion Interactions and Transport in Ion-Containing Polymers](#)

[Y9. Transport in Semiconductors II](#)

[Y10. Computational Molecular Biophysics](#)

[Y12. Disordered and Glassy Systems I](#)

[Y13. Statistical and Nonlinear Physics I](#)

[Y14. Focus Session: Nanostructures and Plasmonics](#)

[Y15. Detectors, Sensors, and Transducers](#)

[Y16. Fullerenes and Composites](#)

[Y17. Focus Session: Organic Electronics and Photonics - Electronic, Optical, Magnetic Properties](#)

[Y18. Elastomers and Gels](#)

[Y19. Focus Session: Polymer Colloids: Dynamics](#)

[Y20. Glassy and Amorphous Materials](#)

[Y21. Focus Session: Graphene: Field-Effect Devices](#)

[Y22. Graphene Theory](#)

[Y23. Quantum Fluids and Solids](#)

[Y24. Insulators: pt. Defects, Dielectrics, and Scintillators/Phosphors](#)

[Y25. Nanoparticles](#)

[Y26. Superconducting Qubits: Decoherence and Noise](#)

[Y27. Focus Session: Chemical Control of the Properties of Complex Oxides II](#)

[Y28. Chemical Dynamics](#)

[Y29. Focus Session: Thermoelectrics VI: Oxides, Measurements, Devices](#)

[Y30. Disordered Magnetic Materials](#)

[Y31. Ferromagnetism and Spin-imbalances in Quantum Gases](#)

[Y32. Novel Instrumentation & Techniques in Surface Science](#)

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[Y34. Focus Session: Frustrated and Low-D Magnetism -- Quantum Magnetism II](#)

[Y35. Focus Session: Spins in Semiconductors -- Qubits and Quantum Wires](#)

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[Y38. Nanostructures of Correlated Materials](#)

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[Y40. Focus Session: Iron Based Superconductors: Magnetism and Transport](#)

[Y41. Strongly Correlated Systems - Theory](#)

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[Z1. Coherent Optical Manipulation of Electron and Nuclear Spin in Artificial Atomic and Molecular Systems in Solids](#)

[Z2. Plasmonic Nanogaps: From Single Molecule Sensing to Light Manipulation and Beyond](#)

[Z3. Response of Magnetism to Electric Fields and Light](#)

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[Z9. QHE: Quantum Computing](#)  
[Z10. Physics of Physiological Systems](#)  
[Z11. Lipid Bilayers II](#)  
[Z12. Disordered and Glassy Systems II](#)  
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[Z14. Graphene: Adsorbates and Defects](#)  
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[Z16. Focus Session: Organic Electronics and Photonics: Fundamentals](#)  
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[Z18. New Experimental, Theoretical, and Computational Methods in Polymer and Soft Matter](#)

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[Z19. Focus Session: Polymer Brushes](#)  
[Z20. Carbon Nanotubes: Fundamentals and Applications](#)  
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[Z25. Theoretical Methods and Applications](#)  
[Z26. Superconducting Qubits: New States and Effects](#)  
[Z27. Surfaces](#)  
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[Z34. Focus Session: Frustrated and Low-D Magnetism -- Quantum Magnetism III](#)  
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[Z36. Focus Session: Bulk Properties of Complex Oxides -- 4d and 5d Systems](#)  
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[Z39. Focus Session: Iron Based Superconductors: Spectroscopy II](#)  
[Z40. Superconductivity: Spectroscopy \(Neutron, Optical and others\)](#)  
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