

March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

8:00AM MONDAY

- A1 ⁽⁵⁾ Phase-sensitive Probes of the Pairing Symmetry in Fe-Based Superconductors. OB 201
A2 ⁽⁵⁾ Topological Insulators and Topological Superfluids. OB 202
A3 ⁽⁵⁾ New Developments in Strontium Ruthenates. OB 203
A4 ⁽⁵⁾ Human Mobility: The Statistical Physics of When, Where, and How. OB 204
A5 ⁽⁵⁾ Silicon Photonics. PB 256
A6 ⁽⁵⁾ Recent (algorithmic) Developments in Complex and Glass Systems. PB 253
A7 ⁽⁵⁾ Single Chain Experiments: from Polymers to Biophysics. PB 254
A8 ⁽⁵⁾ Quantum Opto-Mechanics. PB 255
A9 ⁽²⁾ *Optics of Nanostructures—Quantum Dots I*. A105
A10 ⁽¹⁾ *Single Molecule Biophysics and Chemical Physics I*. A106
A11 ⁽⁰⁾ Energy Conversion Followed by Energy Storage Methods. A107-A109
A12 ⁽⁰⁾ Microfluidics I: Electrokinetics and Transport. B110-B111
A13 ⁽⁰⁾ Convection and Crystal Growth. B112
A14 ⁽²⁾ *Transport Properties of Nanostructures I: Single-Molecule Junctions*. B113
A15 ⁽⁰⁾ Structural Materials, Defects, Deformation. B114
A16 ⁽⁰⁾ Graphite and Intercalated Compounds. B115
A17 ⁽¹⁾ *Relaxation Dynamics of Polymeric Glasses I*. B116
A18 ⁽²⁾ *Multiscale Modeling in Polymer and Soft Matter Physics*. B117
A19 ⁽⁰⁾ Polymer Blends. B118-B119
A20 ⁽¹⁾ *Carbon Nanotubes: Functionalization and Growth*. C120-122
A21 ⁽¹⁾ *Graphene: Quantum Interference and Transport*. PB 251
A22 ⁽⁰⁾ Graphene Applications. PB 252
A23 ⁽⁰⁾ Density Functional Theory I. C125-C126
A24 ⁽⁰⁾ Spintronic Materials. D133-D134
A25 ⁽¹⁾ *Dopants and Defects in Semiconductors - ZnO*. D135
A26 ⁽¹⁾ *Recent Progress in Quantum Algorithms and Computational Complexity*. D136
A27 ⁽⁰⁾ Evolutionary and Ecological Systems. D137
A28 ⁽²⁾ *Confined and Biological Water I*. C124
A29 ⁽¹⁾ Physics and Materials for Inorganic Photovoltaics: I. C123
A30 ⁽³⁾ *Carbon Nanotubes: Chirality-Controlled Growth of Carbon Nanotubes and Nanostructures*. D139
A31 ⁽⁰⁾ Spinor Degrees of Freedom and Rotation in Quantum Gases. E141
A32 ⁽²⁾ *Directed Self Assembly of Dots, Islands and Wires on Templates*. E142
A33 ⁽²⁾ *Magnetization and Spin Dynamics I*. E143
A34 ⁽⁰⁾ *Nanomagnetism—Nanostructured Films*. E144
A35 ⁽²⁾ *Spins in Semiconductors—Hyperfine Interactions*. E145
A36 ⁽²⁾ *Bulk Properties of Complex Oxides—Perovskite Manganites*. E146
A37 ⁽¹⁾ *Complex Oxide Thin Films—Conductivity at Oxide Interfaces*. E147-E148
A38 ⁽⁰⁾ Quantum Criticality I: Kondo Lattice Systems. F149
A39 ⁽¹⁾ *Iron Superconductors: New Materials*. F150
A40 ⁽¹⁾ *Phonons and Electron Correlations in High Temperature Superconductors I*. F151
A41 ⁽⁰⁾ Superconductivity: Multilayers and Josephson Effects. F152
A42 ⁽¹⁾ *Physics Teacher Preparation: Effective Strategies, National Models, and Challenging Issues*. D138
Total Session A:42

PB=Portland Ballroom, OB=Oregon Ballroom

March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

11:15AM MONDAY

- B1 ⁽⁵⁾ Magnetism in Fe Pnictides and Chalcogenides. OB 201
B2 ⁽⁵⁾ Theory and Experiment on Topological Insulators. OB 202
B3 ⁽⁵⁾ How to Interest Middle School Children in Physical Science. OB 203
B4 ⁽⁵⁾ Dynamics of Polymers on Multi-Length Scales: Solutions. OB 204
B5 ⁽⁵⁾ Five Legacies from the Laser. PB 256
B6 ⁽⁵⁾ Controlling Dissipation in Quantum Systems. PB 253
B7 ⁽⁵⁾ Evolutionary Dynamics. PB 254
B8 ⁽⁵⁾ Four Horsemen of the Apocalypse Redux: The Physics of Global Catastrophes and Global Countermeasures. PB 255
B9 ⁽⁰⁾ Theory of Semiconductors. A105
B10 ⁽¹⁾ *Single Molecule Biophysics and Chemical Physics II*. A106
B11 ⁽⁰⁾ Energy Storage Methods. A107-A109
B12 ⁽⁰⁾ GSNP Graduate Student Prize and Liquid Crystals: Smectics. B110-B111
B13 ⁽¹⁾ *Complex Networks I*. B112
B14 ⁽¹⁾ *Electrodynamics of Metamaterials*. B113
B15 ⁽¹⁾ *Advances in Scanned Probe Microscopy I: Novel AFM, MRFM, and Acoustic Microscopy*. B114
B16 ⁽²⁾ *Organic Electronics and Photonics: Solar Cell Materials and Devices*. B115
B17 ⁽⁰⁾ Surfaces, Interfaces and Thin Films. B116
B18 ⁽¹⁾ *Crystallization in Confined Geometry I*. B117
B19 ⁽¹⁾ *Thin Films Copolymers I*. B118-B119
B20 ⁽¹⁾ *Carbon Nanotubes: Superconductivity, Electrical Properties*. C120-C122
B21 ⁽¹⁾ *Graphene: Magnetic Properties*. PB 251
B22 ⁽¹⁾ *Graphene Structure: Local Probes*. PB 252
B23 ⁽⁰⁾ Strongly Correlated Systems I. C125-C126
B24 ⁽⁰⁾ *Dielectric, Ferroelectric, and Piezoelectric Oxides—Thin Film Multiferroics*. D133-D134
B25 ⁽²⁾ *Electric-to-Light Conversion and Optics in Semiconductors I*. D135
B26 ⁽¹⁾ *Semiconductor Qubits - Silicon and III-Vs*. D136
B27 ⁽⁰⁾ Experimental Techniques in Biophysics. D137
B28 ⁽⁰⁾ SPS Undergraduate Research I. C124
B29 ⁽¹⁾ *Thermoelectrics I: Recent Concepts*. C123
B30 ⁽⁰⁾ High Pressure I. D139
B31 ⁽⁰⁾ BEC/Matter Wave Optics. E141
B32 ⁽⁰⁾ Structure and Morphology: Oxide Surfaces. E142
B33 ⁽⁰⁾ Cooperative Phenomena Theory. E143
B34 ⁽⁰⁾ *Nanomagnetism—Exchange & Multiferroics*. E144
B35 ⁽¹⁾ *Spins in Semiconductors—Quantum Dots*. E145
B36 ⁽⁰⁾ *Bulk Properties of Complex Oxides—Manganite Multiferroics*. E146
B37 ⁽⁰⁾ *Complex Oxide Thin Films—LaAlO₃/SrTiO₃ Interfaces*. E147-E148
B38 ⁽⁰⁾ Heavy Fermions I: URu₂Si₂ and other U- and Yb-based systems. F149
B39 ⁽¹⁾ *Iron Based Superconductors Synthesis and Doping*. F150
B40 ⁽¹⁾ *Iron Based Superconductors Physical Properties I*. F151
B41 ⁽⁰⁾ Tunneling Spectroscopy of Superconductors. F152
B42 ⁽⁰⁾ Charge, Spin, and Superconductivity. D138
Total Session B:42

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March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

2:30PM MONDAY

- D1 (4) Goeppert Mayer Award, IUPAP Young Scientist Award, and Apker Award Session. OB 201
D2 (5) Correlated System including Topological Insulators: Materials, Measurements, and Majorana Modes. OB 202
D3 (4) Materials for Solar to Electricity Conversion: Status and Future. OB 203
D4 (5) Quantum Computer Science. OB 204
D5 (6) Pais Prize Talk; Sam Goudsmit: Physics, Editor, and More. PB 256
D6 (5) Dynamics of Polymers on Multi-Length Scales: Interfaces. PB 253
D7 (5) Fluctuations and Critical Phenomena in Population Dynamics. PB 254
D8 (5) Spin Transport in Carbon-based Materials. PB 255
D9 (0) Semiconductor Structure and Mechanical Properties. A105
D10 (2) *Single Molecule Biophysics and Chemical Physics III*. A106
D11 (2) Physics of Bacteria I. A107-A109
D12 (0) Colloidal Crystals, Suspensions and Films. B110-B111
D13 (0) *Complex Networks II*. B112
D14 (1) *Transport Properties of Nanostructures II: Non-Equilibrium and Correlated Electron Phenomena*. B113
D15 (1) *X-ray and Neutron Instruments and Measurement Science I*. B114
D16 (1) *Organic Electronics and Photonics: Solar Cells and Photophysics*. B115
D17 (0) Liquid Crystalline Order in Polymer and Complex Fluids. B116
D18 (1) *Crystallization in Confined Geometry II*. B117
D19 (1) *Thin Films Copolymers II*. B118-B119
D20 (1) *Computational Design of New Materials—Structure/Property Relationships*. C120-122
D21 (1) *Graphene: Correlated States*. PB 251
D22 (0) Materials Chemically Derived from Graphene. PB 252
D23 (0) Strongly Correlated Systems II. C125-C126
D24 (0) *Dielectric, Ferroelectric, and Piezoelectric Oxides—Bulk Multiferroics*. D133-D134
D25 (1) *Dopants and Defects in Semiconductors - Nitrides, SiC*. D135
D26 (0) *Semiconductor Qubits - Silicon*. D136
D27 (1) Self-organization in Biological Cells and Tissue I. D137
D28 (0) SPS Undergraduate Research II. C124
D29 (2) Physics and Materials for Inorganic Photovoltaics: II. C123
D30 (1) *Hydrogen Storage I*. D139
D31 (0) Molecular and Dipolar Quantum Gases. E141
D32 (0) *Controlled Self Assembly and Growth*. E142
D33 (0) *Complex Oxide Thin Films—Magnetic Oxides*. E143
D34 (0) *Nanomagnetism—Nanowires & Thermal Effects*. E144
D35 (1) *Spins in Semiconductors—Topological Insulators*. E145
D36 (2) *Bulk Properties of Complex Oxides—Cobaltites and Vanadates*. E146
D37 (1) *Complex Oxide Thin Films—Oxide 2DEGs and Devices*. E147-E148
D38 (0) Charge Density Waves. F149
D39 (1) *Iron Based Superconductors: Theory I*. F150
D40 (0) Superconductivity: Vortices. F151
D41 (0) Ruthenates and Unconventional Superconducting Pairing. F152
D42 (0) Topological Insulators: Experiment. D138
Total Session D:42

5:45PM MONDAY

- E1 (0) APS Prizes and Awards Ceremonial Session and Past President's Address. PORTLAND 251

March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

8:00AM TUESDAY

- H1 ⁽⁵⁾ Charge and Spin Transport in Josephson and Proximity Devices. OB 201
 - H2 ⁽⁴⁾ Recent Advances in Cell and Single Molecule Manipulation. OB 202
 - H3 ⁽⁵⁾ Room Temperature Semiconductor Spintronics. OB 203
 - H4 ⁽⁵⁾ Polymer Physics Prize. OB 204
 - H5 ⁽⁵⁾ Facing the Challenge of the LED Droop. PB 256
 - H6 ⁽⁵⁾ Artificial Electromagnetism and other Gauge Fields in Cold Atomic Gases. PB 253
 - H7 ⁽⁵⁾ Optimization Principles in Biological Physics. PB 254
 - H8 ⁽⁴⁾ Opportunities for Research and Employment in Transportation Science. PB 255
 - H9 ⁽⁰⁾ Optoelectronic Properties of Quantum Dots. A105
 - H10 ⁽⁰⁾ Physics of Bacteria II. A106
 - H11 ⁽¹⁾ *Extreme Mechanics I*. A107-A109
 - H12 ⁽⁰⁾ Statistical and Nonlinear Physics of Social Systems. B110-B111
 - H13 ⁽⁰⁾ Liquid Crystals: Nanoparticles and Surfaces. B112
 - H14 ⁽¹⁾ *Transport Properties of Nanostructures III: Theory and Computation I*. B113
 - H15 ⁽⁰⁾ Metals: Compounds, Magnetism. B114
 - H16 ⁽⁰⁾ Nanowires: Synthesis, Structural Properties and Growth Kinetics. B115
 - H17 ⁽¹⁾ *Relaxation Dynamics of Polymeric Glasses II*. B116
 - H18 ⁽⁰⁾ Polymer Composites. B117
 - H19 ⁽¹⁾ *Long Range Order in Polymeric Structure and Morphology I*. B118-B119
 - H20 ⁽¹⁾ *Carbon Nanotubes: Excitonic Effects*. C120-C122
 - H21 ⁽¹⁾ *Graphene: Nanoribbons*. PB 251
 - H22 ⁽⁰⁾ Epitaxial Graphene on Silicon Carbide. PB 252
 - H23 ⁽⁰⁾ Classical and Quantum Monte Carlo I. C125-C126
 - H24 ⁽³⁾ *Production and Application of Cold Molecules I*. D133-D134
 - H25 ⁽¹⁾ *Dopants and Defects in Semiconductors - Si*. D135
 - H26 ⁽⁰⁾ Spin Qubits - Diamond, III-Vs, and Coupling to Cavities. D136
 - H27 ⁽²⁾ *Confined and Biological Water II*. D137
 - H28 ⁽²⁾ *New Frontiers in Electronic Structure Theory I*. C124
 - H29 ⁽²⁾ Physics and Materials for Inorganic Photovoltaics: III. C123
 - H30 ⁽²⁾ *Frontiers in Computational Thermodynamics of Materials*. D139
 - H31 ⁽⁰⁾ Weakly and Strongly Interacting Fermions. E141
 - H32 ⁽¹⁾ *Tribophysics—Fracture and Plasticity*. E142
 - H33 ⁽²⁾ *Magnetization and Spin Dynamics II*. E143
 - H34 ⁽¹⁾ *Frustrated and Low-D Magnetism—Spin Chains and Ladders*. E144
 - H35 ⁽¹⁾ *Spins in Semiconductors—DMS: Nitrides and Oxides*. E145
 - H36 ⁽¹⁾ *Nanomagnetism—Spin Torque*. E146
 - H37 ⁽¹⁾ *Complex Oxide Thin Films—Manganites*. E147-E148
 - H38 ⁽⁰⁾ Phase Transitions in Vanadium Oxides. F149
 - H39 ⁽¹⁾ *Iron Based Superconductors: Pairing Symmetry*. F150
 - H40 ⁽¹⁾ *Phonons and Electron Correlations in High Temperature Superconductors II*. F151
 - H41 ⁽⁰⁾ Superconductivity: Proximity Effects. F152
 - H42 ⁽¹⁾ *Research in Mathematics Education and Mathematics in Physics Education*. D138
- Total Session H:42

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March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

11:15AM TUESDAY

- J1 ⁽⁵⁾ The Gap Structure of the Fe Superconductors. OB 201
 - J2 ⁽⁵⁾ Non-equilibrium Phenomena in Very High Landau Levels. OB 202
 - J3 ⁽⁵⁾ Energy Research and Applications: Future Materials and Systems. OB 203
 - J4 ⁽⁵⁾ Dynamics of Polymers on Multi-Length Scales: Melts. OB 204
 - J5 ⁽⁵⁾ What Works for Women in Physics: Lessons Learned from Research. PB 256
 - J6 ⁽⁵⁾ Advanced Electronic Structure Methods for Defects in Semiconductors and Insulators. PB 253
 - J7 ⁽⁵⁾ Biofilms and Multicellularity. PB 254
 - J8 ⁽⁵⁾ LaserFest: Laser Education and Outreach. PB 255
 - J9 ⁽⁰⁾ Transport in Semiconductors I. A105
 - J10 ⁽⁰⁾ Protein-Protein Interaction and Protein Aggregation. A106
 - J11 ⁽⁰⁾ Biological Networks & System Biology. A107-A109
 - J12 ⁽⁰⁾ *Carbon Nanotubes: Thermal Transport*. B110-B111
 - J13 ⁽⁰⁾ Systems Far From Equilibrium. B112
 - J14 ⁽¹⁾ *Optics of Nanostructures Plasmons, Nanoantennas, and Quantum Dots*. B113
 - J15 ⁽¹⁾ *Advances in Scanned Probe Microscopy II: Optical Techniques*. B114
 - J16 ⁽¹⁾ *Polymers and Energy: Photovoltaics I*. B115
 - J17 ⁽⁰⁾ Frank J. Padden Jr. Award Symposium. B116
 - J18 ⁽⁰⁾ Physics of Copolymers. B117
 - J19 ⁽¹⁾ *Hierarchically and Templated Ordered Systems I*. B118-B119
 - J20 ⁽¹⁾ *Carbon Nanotubes: Mechanical properties and Biosensors*. C120-C122
 - J21 ⁽¹⁾ *Graphene: Transport I*. PB 251
 - J22 ⁽²⁾ *Carbon Nanotubes: Optoelectronic Devices*. PB 252
 - J23 ⁽²⁾ *Plyler Prize Session and New Trends in Spectroscopy I*. C125-C126
 - J24 ⁽⁰⁾ Topological Insulators: Theory. D133-D134
 - J25 ⁽²⁾ *Electric-to-Light Conversion and Optics in Semiconductors II*. D135
 - J26 ⁽¹⁾ *Topological Quantum Computing*. D136
 - J27 ⁽¹⁾ *Confined and Biological Water III*. D137
 - J28 ⁽²⁾ *New Frontiers in Electronic Structure Theory II*. C124
 - J29 ⁽¹⁾ *Thermoelectrics II: Dirac, Bi₂Te₃ & Nanostructures*. C123
 - J30 ⁽¹⁾ *High Pressure II: Equations of State*. D139
 - J31 ⁽¹⁾ *Hybrid AMO-condensed Matter Systems for Quantum Information Science*. E141
 - J32 ⁽⁰⁾ Structure and Morphology: Metal Surfaces. E142
 - J33 ⁽¹⁾ *Spin Dependent Physics in Organic-Based Materials I*. E143
 - J34 ⁽⁰⁾ Correlated Electrons: New Materials. E144
 - J35 ⁽¹⁾ *Spins in Semiconductors—Spin Orbit Effects and Spin Relaxation*. E145
 - J36 ⁽¹⁾ *Nanomagnetism—Domain Dynamics*. E146
 - J37 ⁽²⁾ *Novel Magnetic Devices - Spin Torque I*. E147-E148
 - J38 ⁽⁰⁾ Heavy Fermions II: Ce-based 115 and 122 Systems. F149
 - J39 ⁽⁰⁾ *Iron Based Superconductors: Properties and Pressure*. F150
 - J40 ⁽⁰⁾ Strongly Correlated Models for Cuprate Systems. F151
 - J41 ⁽⁰⁾ Response to Electromagnetic Fields (Optical, Raman). F152
 - J42 ⁽⁰⁾ General Theory, Methods, Education and Relativity. D138
- Total Session J:42

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March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

2:30PM TUESDAY

- L1 (5) Novel Probes of Electron Interactions in One-Dimensional Systems. OB 201
 - L2 (5) Correlated States for Topological Quantum Computing. OB 202
 - L3 (5) How to Predict Localized Hole-States in Oxides and Wide-Gap Semiconductors?. OB 203
 - L4 (3) Onsager and Heineman Prize Session. OB 204
 - L5 (5) Promoting Excellence: Preparation, Execution, and Opportunities. PB 256
 - L6 (5) Intracellular Fluid Dynamics. PB 253
 - L7 (5) Educational Challenges in Biological Physics. PB 254
 - L8 (5) Recent Advances and New Projects in Neutron and X-Ray Sources. PB 255
 - L9 (0) Optical Properties of Nanocrystals. A105
 - L10 (2) *Single Molecule Biophysics and Chemical Physics IV*. A106
 - L11 (1) *Extreme Mechanics II*. A107-A109
 - L12 (0) Granular Materials I. B110-B111
 - L13 (0) Liquid crystals: Mostly Nematics. B112
 - L14 (1) *Transport Properties of Nanostructures IV: Charge Dynamics and Imaging of Photoactive Molecules*. B113
 - L15 (0) *X-ray and Neutron Instruments and Measurement Science II*. B114
 - L16 (0) *Polymers and Energy: Photovoltaics II*. B115
 - L17 (1) *Dillon Medal Symposium*. B116
 - L18 (1) *Long Range Order in Polymeric Structure and Morphology II*. B117
 - L19 (1) *Hierarchically and Templated Ordered Systems II*. B118-B119
 - L20 (1) *Computational Design of New Materials—Nanostructure Design*. C120-122
 - L21 (1) *Graphene: Transport II*. PB 251
 - L22 (2) *Carbon Nanotubes Alignment and Sorting: Device Applications*. PB 252
 - L23 (0) Classical and Quantum Monte Carlo II. C125-C126
 - L24 (1) *Dielectric, Ferroelectric, and Piezoelectric Oxides—Applications*. D133-D134
 - L25 (0) Optical and Electronic Properties of Semiconductors. D135
 - L26 (0) Spin Qubits - Control, Transport, Architecture and Decoherence. D136
 - L27 (3) *Confined and Biological Water IV*. D137
 - L28 (0) Nucleic Acids: Structure & Function. C124
 - L29 (3) *Interface Controlled Organic Thin Films for Enhanced Device Performance*. C123
 - L30 (1) *Hydrogen Storage II—Complex Hydrides*. D139
 - L31 (0) APS Editorial Q & A. E141
 - L32 (1) *Tribophysics—Sliding Friction*. E142
 - L33 (1) *Spin Dependent Physics in Organic-Based Materials II*. E143
 - L34 (0) *Frustrated and Low-D Magnetism—Strongly Frustrated Antiferromagnets in 2D*. E144
 - L35 (0) *Spins in Semiconductors—Spin Injection*. E145
 - L36 (1) *Nanomagnetism—Tunnel Junctions*. E146
 - L37 (2) *Novel Magnetic Devices: Spin Torque II*. E147-E148
 - L38 (0) Charge Order in One-Dimensional Systems. F149
 - L39 (0) *Iron Based Superconductors: Magnetism and Structure*. F150
 - L40 (0) Superconductivity: Electronic Structure (ARPES). F151
 - L41 (1) *Search for New Superconductors - Heterostructures, Thin Films, Intercalated and High-Pressure Compounds*. F152
 - L42 (0) High Reynolds Number Flows. D138
- Total Session L:42

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8:00AM WEDNESDAY

- P1 ⁽⁵⁾ Superconductivity and Magnetism of Iron Chalcogenides. OB 201
P2 ⁽⁵⁾ Quantum Oscillations, Superconductivity, and Pseudogaps in Nanoscaled Metal Films and Islands. OB 202
P3 ⁽⁵⁾ Emergent Behavior in Particle Systems Subjected to Time-Dependent Fields. OB 203
P4 ⁽⁵⁾ Celebrating 50 Years of Lasers in Condensed Matter Physics: Dynamics & Imaging. OB 204
P5 ⁽⁵⁾ Lattice Boltzmann Method and Its Applications. PB 256
P6 ⁽⁵⁾ Fermions at Unitarity: Gravity, the Quark-Gluon Plasma, and Ultra-Cold Atoms. PB 253
P7 ⁽⁴⁾ Physics, Culture and the Arts. PB 254
P8 ⁽⁵⁾ Physicists as Entrepreneurs. PB 255
P9 ⁽⁰⁾ Electronic Properties of Quantum Dots. A105
P10 ⁽¹⁾ *Physics of Behavior*. A106
P11 ⁽⁰⁾ *Extreme Mechanics III*. A107-A109
P12 ⁽⁰⁾ Granular Materials II. B110-B111
P13 ⁽⁰⁾ Membranes: General, Surface, Biological. B112
P14 ⁽¹⁾ *Transport Properties of Nanostructures V: Theory and Computation II*. B113
P15 ⁽⁰⁾ Instrumentation for Nanoscale Science. B114
P16 ⁽⁰⁾ Nanowires: Electronic and Optical Properties. B115
P17 ⁽¹⁾ *Glass Transition in Thin Films I*. B116
P18 ⁽¹⁾ *Biological-Synthetic Hybrid Materials I*. B117
P19 ⁽¹⁾ *Physics of Polymer Nanocomposites I*. B118-B119
P20 ⁽⁰⁾ *Carbon Nanotubes: Electron Transport*. C120-C122
P21 ⁽⁰⁾ *Nano-Graphene*. PB 251
P22 ⁽⁰⁾ Bilayer Graphene. PB 252
P23 ⁽⁰⁾ Classical and Quantum Molecular Dynamics. C125-C126
P24 ⁽¹⁾ *Dielectric, Ferroelectric, and Piezoelectric Oxides—Nanostructures*. D133-D134
P25 ⁽⁰⁾ *Dopants and Defects in Semiconductors - III-V's*. D135
P26 ⁽⁰⁾ Superconducting Qubits: Materials / Nanomechanical Resonators. D136
P27 ⁽²⁾ *New Trends in Spectroscopy II*. D137
P28 ⁽²⁾ *New Frontiers in Electronic Structure Theory III*. C124
P29 ⁽¹⁾ *Thermoelectrics III: IV-VI's & Nanostructures*. C123
P30 ⁽⁰⁾ Nanopores and Related Structures for DNA Detection. D139
P31 ⁽⁰⁾ Ultracold Gases in One Dimensional and Ring Geometries. E141
P32 ⁽²⁾ *Tribophysics—Adhesion and Friction*. E142
P33 ⁽⁰⁾ *Spin Dependent Physics in Organic-Based Materials III*. E143
P34 ⁽¹⁾ *Frustrated and Low-D Magnetism—Antiferromagnets on the Triangular Lattice*. E144
P35 ⁽¹⁾ *Spins in Semiconductors—GaMnAs Electronic Structure*. E145
P36 ⁽¹⁾ *Bulk Properties of Complex Oxides—Cobaltites*. E146
P37 ⁽¹⁾ *Complex Oxide Thin Films—Conductivity and Metal-Insulator Transition I*. E147-E148
P38 ⁽⁰⁾ Quantum Criticality II. F149
P39 ⁽⁰⁾ *Iron Based Superconductors: Theory II*. F150
P40 ⁽¹⁾ *Iron Based Superconductors: Physical Properties II*. F151
P41 ⁽⁰⁾ Tutorial for Authors and Referees. F152
P42 ⁽⁰⁾ Superconductivity: Fluctuation Phenomena. D138
Total Session P:42

March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

11:15AM WEDNESDAY

- Q1 ⁽⁴⁾ Novel Superconductivity: Insights from a Materials Perspective. OB 201
Q2 ⁽⁵⁾ Jamming. OB 202
Q3 ⁽⁵⁾ Physics for Everyone. OB 203
Q4 ⁽⁵⁾ Celebrating 50 Years of Lasers in Condensed Matter Physics: Surfaces, Imaging & Technology. OB 204
Q5 ⁽⁵⁾ A Critical Challenge for the Biotech Industry: The Measurement of Protein Associations. PB 256
Q6 ⁽⁵⁾ Science Literacy, the Nature of Science and Religion. PB 253
Q7 ⁽⁵⁾ Mechanics in Cell Biology. PB 254
Q8 ⁽⁵⁾ Magnonics: Spin Wave Processes in Magnetic Materials. PB 255
Q9 ⁽⁰⁾ Electronic Properties of Low Dimensional Systems. A105
Q10 ⁽²⁾ *Physics of Biochips I*. A106
Q11 ⁽²⁾ Self-organization in Biological Cells and tissue II. A107-A109
Q12 ⁽⁰⁾ Self-Assembly: Equilibrium and Non-Equilibrium. B110-B111
Q13 ⁽¹⁾ *Stochastic Processes in Biology I*. B112
Q14 ⁽¹⁾ *Optics of Nanostructures: Quantum Dots and Nanomaterials*. B113
Q15 ⁽¹⁾ *Advances in Scanned Probe Microscopy III: Spectroscopic Techniques at Low Temperatures*. B114
Q16 ⁽¹⁾ *Polymers and Energy: Fuel Cells and Batteries*. B115
Q17 ⁽¹⁾ Focus Session : Glass Transition in Thin Films II. B116
Q18 ⁽¹⁾ Biological-Synthetic Hybrid Materials II. B117
Q19 ⁽¹⁾ *Physics of Polymer Nanocomposites II*. B118-B119
Q20 ⁽¹⁾ *Graphene: Local Probes*. C120-122
Q21 ⁽¹⁾ *Graphene: Bilayers I*. PB 251
Q22 ⁽⁰⁾ Graphene Junctions. PB 252
Q23 ⁽⁰⁾ Electronic Structure. C125-C126
Q24 ⁽¹⁾ *Dielectric, Ferroelectric, and Piezoelectric Oxides—Strain and Interfaces*. D133-D134
Q25 ⁽⁰⁾ QHE: Bilayers and Tunneling. D135
Q26 ⁽⁰⁾ Quantum Error Correction and Dynamical Decoupling. D136
Q27 ⁽³⁾ *New Trends in Spectroscopy III*. D137
Q28 ⁽²⁾ *New Frontiers in Electronic Structure Theory IV*. C124
Q29 ⁽¹⁾ *Thermoelectrics IV: Group IV's & Nanostructures*. C123
Q30 ⁽⁰⁾ *High Pressure III*. D139
Q31 ⁽¹⁾ *Quantum Simulation using AMO Systems*. E141
Q32 ⁽⁰⁾ *Self Assembly of Molecules on Surfaces*. E142
Q33 ⁽¹⁾ *Complex Oxide Thin Films—Oxide/Semiconductor Interfaces and Defects*. E143
Q34 ⁽¹⁾ *Frustrated and Low-D Magnetism—Spins, Orbitals, and Phonons*. E144
Q35 ⁽⁰⁾ *Spins in Semiconductors—Spin Device Physics*. E145
Q36 ⁽¹⁾ *Bulk Properties of Complex Oxides—Fe-Based Multiferroics*. E146
Q37 ⁽⁰⁾ *Complex Oxide Thin Films—Conductivity and Metal-Insulator Transition II*. E147-E148
Q38 ⁽⁰⁾ Topological Insulators: Theory and Experiment. F149
Q39 ⁽⁰⁾ *Iron Based Superconductors: Theory III*. F150
Q40 ⁽¹⁾ *Iron Based Superconductors Physical Properties III*. F151
Q41 ⁽¹⁾ *Phonons and Electron Correlations in High Tc Superconductors*. F152
Q42 ⁽⁰⁾ Theory of Superconducting Properties. D138
Total Session Q:42

PB=Portland Ballroom, OB=Oregon Ballroom

March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

2:30PM WEDNESDAY

- T1 (4) Prize Session: Buckley, Lilienfeld. OB 201
T2 (5) Quantum Fluctuations and Magnetic Frustration in Strongly Correlated Metals. OB 202
T3 (5) Materials with Topological Defects on Gaussian Curved Surfaces. OB 203
T4 (5) Keithly Award Session: Precision Time and Frequency Measurements. OB 204
T5 (5) Measuring Magnetism at the Nanoscale. PB 256
T6 (5) Graduate Education in Physics: Which Way Forward. PB 253
T7 (5) Avalanches in Condensed Matter. PB 254
T8 (4) Panel Discussion: Emerging Scientific Powers in the East: China. PB 255
T9 (1) *Optics of Nanostructures - Near Field, Single Molecule, and Plasmonics*. A105
T10 (2) *Physics of Biochips II*. A106
T11 (1) *Single Molecule Biophysics and Chemical Physics V*. A107-A108
T12 (0) Microfluidics II: Devices. B110-B111
T13 (0) *Stochastic Processes in Biology II*. B112
T14 (0) Energy Resources Followed by Energy Production, Sustainability and Environment. B113
T15 (0) Metals, Compounds, and Metal-like Behavior. B114
T16 (1) *Organic Electronics and Photonics: Transport*. B115
T17 (1) *Dynamics of Polymers and Complex Fluids I*. B116
T18 (0) *Biological-Synthetic Hybrid Materials III*. B117
T19 (1) *Polymer-Nanoparticle Interactions I*. B118-B119
T20 (2) *Computational Design of New Materials—Energy*. C120-122
T21 (1) *Graphene: Bilayers II*. PB 251
T22 (1) Multiscale Materials (Theory, Modeling and Experiments that Bridge Scales). PB 252
T23 (0) Density Functional Theory II. C125-C126
T24 (2) *Dielectric, Ferroelectric, and Piezoelectric Oxides—Domains*. D133-D134
T25 (0) QHE: Microwaves and Periodic Modulation. D135
T26 (0) Superconducting Qubits: Measurements. D136
T27 (0) Cellular Biomechanics. D137
T28 (3) *Production and Application of Cold Molecules II*. C124
T29 (0) Superconducting Devices and Applications. C123
T30 (1) *Hydrogen Storage III*. D139
T31 (0) Quantum Phase Transitions in Atomic and Molecular Systems. E141
T32 (2) *Self Assembly on Novel Templates*. E142
T33 (0) Novel Magnetic Materials. E143
T34 (0) Correlated Electrons: Theory. E144
T35 (1) *Spins in Semiconductors -Spin Hall Effect and Spin Currents*. E145
T36 (1) *Bulk Properties of Complex Oxides—Layered Manganites and Theory*. E146
T37 (1) *Complex Oxide Thin Films—Interfaces and Superlattices*. E147-E148
T38 (0) Electronic Phase Transitions in Correlated Systems. F149
T39 (1) *Iron Based Superconductors: Scanning Probe*. F150
T40 (0) *Iron Based Superconductors: Doping and Magnetism*. F151
T41 (2) *Search for New Superconductors - Nanotubes and Fullerides*. F152
T42 (0) Superconductivity: Spin Properties. D138
Total Session T:42

5:45PM WEDNESDAY

- U1 (1) Nobel Prize Session. PB 252

7:30PM WEDNESDAY

- U45 (3) “Trends” in the APS Publication Physics. PORTLAND HILTON PAVILLION BALLROOM

PB=Portland Ballroom, OB=Oregon Ballroom

March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

8:00AM THURSDAY

- V1 ⁽⁵⁾ Structure, Magnetic Properties, and Superconductivity in the Pnictides. OB 201
V2 ⁽⁵⁾ Relaxation and Dynamic Heterogeneity and Glass. OB 202
V3 ⁽⁵⁾ Electronic, Magnetic, and Magnetoelectric Excitations in Multiferroics. OB 203
V4 ⁽⁵⁾ Biological Nanostructures for Photonics and Adhesion. OB 204
V5 ⁽⁵⁾ Industrial Applications of Neutron Scattering. PB 256
V6 ⁽⁵⁾ The Impact of Large Scale Computing on Research in Physics. PB 253
V7 ⁽⁵⁾ Piconewtons and Nanometers: The Physics of Molecular Motors. PB 254
V8 ⁽⁵⁾ Spots, Stripes, and Turbulence. PB 255
V9 ⁽⁰⁾ Fractional QHE. A105
V10 ⁽²⁾ *Dynamics of Neural Systems*. A106
V11 ⁽¹⁾ *Nonlinear Hydrodynamics of Swimming Cells*. A107-A109
V12 ⁽⁰⁾ Colloidal Particles and Clusters. B110-B111
V13 ⁽¹⁾ *Jamming I*. B112
V14 ⁽⁰⁾ *Transport Properties of Nanostructures VI: Inorganic Nanostructures and Nanomechanics*. B113
V15 ⁽¹⁾ *Novel Instrumentation and Measurements for Medical and Biological Systems*. B114
V16 ⁽⁰⁾ Nanowires: Electrical and Thermal Properties. B115
V17 ⁽⁰⁾ *Dynamics of Polymers and Complex Fluids II*. B116
V18 ⁽⁰⁾ Biopolymer Molecules - Solutions, Networks, and Gels. B117
V19 ⁽¹⁾ *Polymer-Nanoparticle Interactions II*. B118-B119
V20 ⁽⁰⁾ Graphene Synthesis, Characterization and Applications. C120-122
V21 ⁽¹⁾ *Graphene: Mechanical and Thermal Properties*. PB 251
V22 ⁽⁰⁾ Quantum Hall Effect in Graphene. PB 252
V23 ⁽⁰⁾ Solid Helium I. C125-C126
V24 ⁽⁰⁾ *Dielectric, Ferroelectric, and Piezoelectric Oxides—Bulk Ferroelectrics I*. D133-D134
V25 ⁽⁰⁾ *Dopants and Defects in Semiconductors - Oxides, general*. D135
V26 ⁽¹⁾ *Superconducting Qubits*. D136
V27 ⁽³⁾ *Attosecond Science and Strong Field Chemical Physics I*. D137
V28 ⁽¹⁾ *Charge Transport in Nanostructures I*. C124
V29 ⁽⁰⁾ Optical/Laser Devices and Applications. C123
V30 ⁽⁰⁾ Nanotechnology Applications: NEMS, CNTs, Graphene, and Nanoscale Devices. D139
V31 ⁽²⁾ *Strongly Interacting Quantum Gases*. E141
V32 ⁽⁰⁾ Surface Reactions and Dynamics. E142
V33 ⁽⁰⁾ Cooperative Phenomena- Experiment, Spin Dynamics and Materials. E143
V34 ⁽¹⁾ *Frustrated and Low-D Magnetism—Quantum Magnetism I*. E144
V35 ⁽¹⁾ *Spins in Semiconductors—Carbon-based Systems*. E145
V36 ⁽⁰⁾ Spin Transport in Metals including GMR. E146
V37 ⁽¹⁾ *Complex Oxide Thin Films—Multiferroics and Tunneling*. E147-E148
V38 ⁽⁰⁾ Disordered Electronic Systems. F149
V39 ⁽⁰⁾ *Iron Based Superconductors: Lattice Probes & Irradiation*. F150
V40 ⁽⁰⁾ Superconducting Vortices: Pinning & Lattice Effects. F151
V41 ⁽⁰⁾ Superconductor-Insulator Transitions. F152
V42 ⁽⁰⁾ Surfaces: Phase Transitions, Magnetic and Superconducting Properties. D138
Total Session V:42

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March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

11:15AM THURSDAY

- W1 ⁽⁵⁾ Direct Imaging of Crystal Nucleation. OB 201
W2 ⁽⁵⁾ Drop-based Microfluidics for Use with Soft-materials and Biology. OB 202
W3 ⁽⁵⁾ Adler, McGroddy, and Pake Award/Prize Session. OB 203
W4 ⁽⁵⁾ Electric Voltages Generated by Magnetization Dynamics. OB 204
W5 ⁽⁴⁾ Renewable Energy Education. PB 256
W6 ⁽⁴⁾ Superconducting Qubits. PB 253
W7 ⁽⁵⁾ Biological Networks. PB 254
W8 ⁽⁵⁾ Scanned Probe Microscopy of Novel Materials and Systems. PB 255
W9 ⁽⁰⁾ QHE and topological insulators. A105
W10 ⁽⁰⁾ Lipid Bilayers I. A106
W11 ⁽⁰⁾ Proteins: Structure, Function, and Folding. A107-A109
W12 ⁽⁰⁾ Foams and Suspensions. B110-B111
W13 ⁽¹⁾ *Jamming II*. B112
W14 ⁽¹⁾ *Optics of Nanostructures—Quantum Dots II*. B113
W15 ⁽⁰⁾ Surfaces, Thin Films, and Nanostructures. B114
W16 ⁽¹⁾ *Organic Electronics and Photonics: Transistors and Light Emitting Devices*. B115
W17 ⁽¹⁾ *Dynamics of Polymers and Complex Fluids III*. B116
W18 ⁽¹⁾ *Polymer Network Mechanics I*. B117
W19 ⁽²⁾ *Synchrotron X-ray and Neutron Techniques in Soft Matter and Biological*. B118-B119
W20 ⁽⁰⁾ Graphene Spectroscopy. C120-122
W21 ⁽¹⁾ *Graphene: Strain*. PB 251
W22 ⁽⁰⁾ Graphene Nanoribbons. PB 252
W23 ⁽⁰⁾ Solid Helium II. C125-C126
W24 ⁽⁰⁾ *Dielectric, Ferroelectric, and Piezoelectric Oxides—Bulk Ferroelectrics II*. D133-D134
W25 ⁽⁰⁾ Semiconductor Growths and Wide Bandgap Semiconductors. D135
W26 ⁽⁰⁾ Quantum Control and Resources for Quantum Computing. D136
W27 ⁽⁴⁾ *Attosecond Science and Strong Field Chemical Physics II*. D137
W28 ⁽³⁾ *Charge Transport in Nanostructures II*. C124
W29 ⁽¹⁾ *Thermoelectrics V: III-V's & Nanostructures*. C123
W30 ⁽¹⁾ *High Pressure IV: Dynamics of Shock Induced Phase Transitions*. D139
W31 ⁽⁰⁾ Non-equilibrium Quantum Dynamics in Atomic Systems. E141
W32 ⁽⁰⁾ Structure and Morphology: Semiconductor Surfaces. E142
W33 ⁽⁰⁾ Quantum Entanglement. E143
W34 ⁽⁰⁾ *Nanomagnetism—Atomic Size Structures*. E144
W35 ⁽¹⁾ *Spins in Semiconductors—DMS: III-V and Devices*. E145
W36 ⁽²⁾ *Frustrated and Low-D Magnetism—Spin Ice*. E146
W37 ⁽¹⁾ *Complex Oxide Thin Films—BiFeO₃ Multiferroics*. E147-E148
W38 ⁽⁰⁾ Correlated Electrons: Lattice Models. F149
W39 ⁽²⁾ *Iron Based Superconductors: Neutron Scattering and Magnetism*. F150
W40 ⁽⁰⁾ Mesoscopic and Nanoscopic Superconductors. F151
W41 ⁽¹⁾ *Search for New Superconductors - Silicides, Nickelates and Cobaltates*. F152
W42 ⁽⁰⁾ Excitation and Transport at Complex Interfaces. D138
- Total Session W:42

PB=Portland Ballroom, OB=Oregon Ballroom

March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

2:30PM THURSDAY

- X1 ⁽⁵⁾ Nanostructure Studies of Strongly Correlated Materials. OB 201
 - X2 ⁽⁵⁾ Quantum Simulation of Strongly Correlated Systems with Cold Atoms in Optical Lattices. OB 202
 - X3 ⁽⁵⁾ Magnetic Monopoles and Dirac Strings in Condensed Matter. OB 203
 - X4 ⁽⁵⁾ Dynamics of Nano-confined Polymer Films. OB 204
 - X5 ⁽⁵⁾ Emerging Tomographic Algorithms: From Bending Molecules to Beating Hearts. PB 256
 - X6 ⁽⁵⁾ The Neural Dynamics of Songbirds. PB 253
 - X7 ⁽⁵⁾ Waves in Actin Dynamics. PB 254
 - X8 ⁽⁵⁾ The 50th Anniversary of the Prediction of Superfluidity of He3. PB 255
 - X9 ⁽⁰⁾ QHE: High Filling Factors and Weak Fields. A105
 - X10 ⁽⁰⁾ Virology and Medical Physics. A106
 - X12 ⁽⁰⁾ General Fluid Mechanics: Surface and Thermal Effects. B110-B111
 - X13 ⁽⁰⁾ *Jamming III*. B112
 - X14 ⁽⁰⁾ Nanowires and Nanotubes: Devices and Applications. B113
 - X15 ⁽⁰⁾ Structural and Electronic Properties of Metals I. B114
 - X16 ⁽¹⁾ *Organic Electronics and Photonics: Electronic Structure and Interfaces*. B115
 - X17 ⁽⁰⁾ Charged and Ion-Containing Polymers I. B116
 - X18 ⁽¹⁾ *Polymer Network Mechanics II*. B117
 - X19 ⁽¹⁾ *Polymer Colloids: Particle Interactions and Assembly*. B118-B119
 - X20 ⁽¹⁾ *Carbon Nanotubes: Optical Studies*. C120-C122
 - X21 ⁽¹⁾ *Graphene: Devices*. PB 251
 - X22 ⁽⁰⁾ *Carbon Nanotubes: Absorption and Defects*. PB 252
 - X23 ⁽⁰⁾ Many Body I. C125-C126
 - X24 ⁽⁰⁾ *Dielectric, Ferroelectric, and Piezoelectric Oxides—Defects and Relaxors*. D133-D134
 - X25 ⁽⁰⁾ Quantum Structures. D135
 - X26 ⁽⁰⁾ Superconducting Qubits: Coherent Phases in Superconducting Resonators. D136
 - X27 ⁽³⁾ *Chemical Control of the Properties of Complex Oxides I*. D137
 - X28 ⁽²⁾ *Charge Transport in Nanostructures III*. C124
 - X29 ⁽⁰⁾ Photonics Applications. C123
 - X30 ⁽⁰⁾ Bionanotechnology. D139
 - X31 ⁽⁰⁾ High Pressure V. E141
 - X32 ⁽⁰⁾ Quantum Size Effects and Interfaces. E142
 - X33 ⁽²⁾ *Foundations of Quantum Theory*. E143
 - X34 ⁽⁰⁾ Magnetic Characterization and Imaging. E144
 - X35 ⁽¹⁾ *Spins in Semiconductors—Spin Dynamics*. E145
 - X36 ⁽¹⁾ *Bulk Properties of Complex Oxides—Novel Systems*. E146
 - X37 ⁽¹⁾ *Nanomagnetism—Molecules*. E147-E148
 - X38 ⁽⁰⁾ Structural Phase Transitions. F149
 - X39 ⁽¹⁾ *Iron Based Superconductors: Spin Excitation*. F150
 - X40 ⁽⁰⁾ Superconductivity: Transport Properties. F151
 - X41 ⁽⁰⁾ *Search for New Superconductors - Carbides, Borides and Organics*. F152
 - X42 ⁽⁰⁾ Physics Education: Research, Techniques, Classic Experiments, and Policy. D138
- Total Session X:41

March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

8:00AM FRIDAY

- Y1 ⁽⁵⁾ Extended Quantum Criticality - The Link Between Heavy Fermions and Cuprate Superconductors?. OB 201
 - Y2 ⁽⁵⁾ Composite Fermions: Recent Advances in States and Excitations. OB 202
 - Y3 ⁽⁵⁾ Two-particle Entanglement with Single Particle Emitters. OB 203
 - Y4 ⁽⁵⁾ Microscopic Physics of Magnetization Damping. OB 204
 - Y5 ⁽⁵⁾ Conductance and Coherence in Nanotubes and Nanobeams. PB 256
 - Y6 ⁽⁵⁾ Quantum Hydrodynamics. PB 253
 - Y7 ⁽⁵⁾ Convergence of Physics and Life Sciences: Emerging Perspectives in Cancer. PB 254
 - Y8 ⁽⁵⁾ Ion Interactions and Transport in Ion-Containing Polymers. PB 255
 - Y9 ⁽⁰⁾ Transport in Semiconductors II. A105
 - Y10 ⁽⁰⁾ Computational Molecular Biophysics. A106
 - Y12 ⁽⁰⁾ Disordered and Glassy Systems I. B110-B111
 - Y13 ⁽⁰⁾ Statistical and Nonlinear Physics I. B112
 - Y14 ⁽⁰⁾ *Nanostructures and Plasmonics*. B113
 - Y15 ⁽⁰⁾ Detectors, Sensors, and Transducers. B114
 - Y16 ⁽⁰⁾ Fullerenes and Composites. B115
 - Y17 ⁽⁰⁾ *Organic Electronics and Photonics - Electronic, Optical, Magnetic Properties*. B116
 - Y18 ⁽⁰⁾ Elastomers and Gels. B117
 - Y19 ⁽¹⁾ *Polymer Colloids: Dynamics*. B118-B119
 - Y20 ⁽⁰⁾ Glassy and Amorphous Materials. C120-122
 - Y21 ⁽¹⁾ *Graphene: Field-Effect Devices*. PB 251
 - Y22 ⁽⁰⁾ Graphene Theory. PB 252
 - Y23 ⁽⁰⁾ Quantum Fluids and Solids. C125-C126
 - Y24 ⁽⁰⁾ Insulators: pt. Defects, Dielectrics, and Scintillators/Phosphors. D133-D134
 - Y25 ⁽⁰⁾ Nanoparticles. D135
 - Y26 ⁽⁰⁾ Superconducting Qubits: Decoherence and Noise. D136
 - Y27 ⁽³⁾ *Chemical Control of the Properties of Complex Oxides II*. D137
 - Y28 ⁽⁰⁾ Chemical Dynamics. C124
 - Y29 ⁽⁰⁾ *Thermoelectrics VI: Oxides, Measurements, Devices*. C123
 - Y30 ⁽⁰⁾ Disordered Magnetic Materials. D139
 - Y31 ⁽⁰⁾ Ferromagnetism and Spin-imbalances in Quantum Gases. E141
 - Y32 ⁽⁰⁾ Novel Instrumentation & Techniques in Surface Science. E142
 - Y33 ⁽⁰⁾ Novel Probes of Quantum Gases and Quantum Measurement / Quantum Information. E143
 - Y34 ⁽⁰⁾ *Frustrated and Low-D Magnetism—Quantum Magnetism II*. E144
 - Y35 ⁽¹⁾ *Spins in Semiconductors—Qubits and Quantum Wires*. E145
 - Y36 ⁽¹⁾ *Bulk Properties of Complex Oxides—General Multiferroics*. E146
 - Y37 ⁽¹⁾ *Nanomagnetism—Nanoparticles I*. E147-E148
 - Y38 ⁽⁰⁾ Nanostructures of Correlated Materials. F149
 - Y39 ⁽¹⁾ *Iron Based Superconductors: Spectroscopy I*. F150
 - Y40 ⁽¹⁾ *Iron Based Superconductors: Magnetism and Transport*. F151
 - Y41 ⁽⁰⁾ Strongly Correlated Systems - Theory. F152
 - Y42 ⁽⁰⁾ Superconductivity: Thermodynamic, Mechanical and Structural Properties. D138
- Total Session Y:41

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March Meeting 2010.

Focus Sessions in italics (Invited talk # in parenthesis)

11:15AM FRIDAY

- Z1 ⁽⁴⁾ Coherent Optical Manipulation of Electron and Nuclear Spin in Artificial Atomic and Molecular Systems in Solids. OB 201
- Z2 ⁽⁵⁾ Plasmonic Nanogaps: From Single Molecule Sensing to Light Manipulation and Beyond. OB 202
- Z3 ⁽⁵⁾ Response of Magnetism to Electric Fields and Light. OB 203
- Z4 ⁽⁵⁾ Plasmonics Applications. OB 204
- Z9 ⁽⁰⁾ QHE: Quantum Computing. A105
- Z10 ⁽⁰⁾ Physics of Physiological Systems. A106
- Z11 ⁽⁰⁾ Lipid Bilayers II. A107-A109
- Z12 ⁽⁰⁾ Disordered and Glassy Systems II. B110-B111
- Z13 ⁽⁰⁾ Statistical and Nonlinear Physics II. B112
- Z14 ⁽⁰⁾ Graphene: Adsorbates and Defects. B113
- Z15 ⁽⁰⁾ Structural and Electronic Properties of Metals II. B114
- Z16 ⁽⁰⁾ *Organic Electronics and Photonics: Fundamentals*. B115
- Z17 ⁽⁰⁾ Charged and Ion-Containing Polymers II. B116
- Z18 ⁽⁰⁾ New Experimental, Theoretical, and Computational Methods in Polymer and Soft Matter Physics. B117
- Z19 ⁽¹⁾ *Polymer Brushes*. B118-B119
- Z20 ⁽⁰⁾ Carbon Nanotubes: Fundamentals and Applications. C120-122
- Z21 ⁽⁰⁾ *Graphene: Growth*. PB 251
- Z22 ⁽⁰⁾ Graphene Optical Properties and Imaging. PB 252
- Z24 ⁽⁰⁾ Oxides and other Insulators. D133-D134
- Z25 ⁽⁰⁾ Theoretical Methods and Applications. D135
- Z26 ⁽⁰⁾ Superconducting Qubits: New States and Effects. D136
- Z27 ⁽⁰⁾ Surfaces. D137
- Z28 ⁽⁰⁾ Clusters. C124
- Z29 ⁽⁰⁾ A Potpourri of AMO and Quantum Information. C123
- Z30 ⁽⁰⁾ Optoelectronic Devices and Applications. D139
- Z31 ⁽⁰⁾ Quantum Optics and Quantum Many-body Physics in Optical Lattices. E141
- Z32 ⁽⁰⁾ Interactions and Thin Films. E142
- Z33 ⁽⁰⁾ Open Quantum Systems and Decoherence. E143
- Z34 ⁽⁰⁾ *Frustrated and Low-D Magnetism—Quantum Magnetism III*. E144
- Z35 ⁽¹⁾ *Spins in Semiconductors—DMS: II-VI and Group IV*. E145
- Z36 ⁽⁰⁾ *Bulk Properties of Complex Oxides—4d and 5d Systems*. E146
- Z37 ⁽¹⁾ *Nanomagnetism—Nanoparticles II*. E147-E148
- Z39 ⁽¹⁾ *Iron Based Superconductors: Spectroscopy II*. F150
- Z40 ⁽⁰⁾ Superconductivity: Spectroscopy (Neutron, Optical and others). F151

Total Session Z:34

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