

### General Seminar Schedule Spring 2007

NOTE: All seminars will be held on THURSDAY at 3:40 PM in Rm. 109 Nicholson, unless otherwise indicated.

| DATE                                                                                        | TITLE OF TALK                                                                                                                                      | SPEAKER             | SPEAKER'S INSTITUTION                                                     | HOST             |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------|------------------|
| Jan. 18                                                                                     | "The Sensitivity Limits of Nanowire Bio-Sensors"<br><u>Abstract</u>                                                                                | Xuan Gao            | Dept. of Chemistry & Chemical Biology<br>Harvard University               | Philip Adams     |
| Jan. 25                                                                                     | "Investigating Quantum Criticality in CeMn <sub>5</sub> (M=Co,Rh,Ir)"<br><u>Abstract</u>                                                           | Cigdem Capan        | Louisiana State University                                                | Philip Adams     |
| <b>SPECIAL SEMINAR</b><br>Mon, Jan. 29<br>3:40 PM<br>109 Nicholson Hall                     | "How More is Different: Correlated Quantum Matter"<br><u>Abstract</u>                                                                              | Maxim Dzero         | Rutgers University                                                        | John DiTusa      |
| Feb. 1                                                                                      | "Quantum Tunneling Dynamics and Metastability of Antiferromagnetic Domains"<br><u>Abstract</u>                                                     | Eric D. Isaacs      | Director, Center for Nanoscale Materials,<br>Argonne National Laboratory  | John DiTusa      |
| <b>SPECIAL SEMINAR</b><br>Mon, Feb. 5<br>3:40 PM<br>109 Nicholson Hall                      | "Local Criticality, Time Reversal Violation and The Cuprate Phase Diagram"<br><u>Abstract</u>                                                      | Vivek Aji           | University of California-Riverside                                        | John DiTusa      |
| <b>SPECIAL SEMINAR</b><br>Wed, Feb. 7<br>5:00 PM<br>130 Nicholson Hall                      | <b>MAX GOODRICH DISTINGUISHED LECTURE SERIES</b><br>"Einstein's Legacy in Low Temperature Physics: Superfluids and Supersolids"<br><u>Abstract</u> | Moses H.W. Chan     | Pennsylvania State University                                             | Jorge Pullin     |
| Feb. 8                                                                                      | "Critical Casimir Forces"<br><u>Abstract</u>                                                                                                       | Moses H.W. Chan     | Pennsylvania State University                                             | Jorge Pullin     |
| <b>SPECIAL SEMINAR</b><br>Tues, Feb. 13<br>3:40 PM<br>109 Nicholson Hall                    | "The Superfluid Phases of Fermionic Gases"<br><u>Abstract</u>                                                                                      | Daniel Sheehy       | Iowa State University                                                     | John DiTusa      |
| <b>MATERIALS SCIENCE &amp; ENGINEERING</b><br>Wed, Feb. 14<br>3:40 PM<br>109 Nicholson Hall | "Heavy-electron Physics: New Ways to Break Old Rules"<br><u>Abstract</u>                                                                           | Johnpierre Paglione | University of California-San Diego                                        | Phil Adams       |
| Feb. 15                                                                                     | "Multi-Photon and Entangled-Photon Imaging and Lithography"<br><u>Abstract</u>                                                                     | Malvin C. Teich     | Boston University<br>and<br>Columbia University                           | Jonathan Dowling |
| Feb. 22                                                                                     | "Colossal Magnetoresistive Manganites and High Temperature Superconductors: So Different, Yet So Similar"<br><u>Abstract</u>                       | Norman Mannella     | Stanford University and<br>Advanced Light Source-LBNL                     | Philip Adams     |
| <b>SPECIAL SEMINAR</b><br>Mon, Feb. 26<br>3:40 PM<br>109 Nicholson Hall                     | "Interaction effects in low-dimensional electron systems"<br><u>Abstract</u>                                                                       | Boris Narozhny      | International Center for<br>Theoretical Physics (ICTP),<br>Trieste, Italy | John DiTusa      |

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| <b>MATERIALS SCIENCE &amp; ENGINEERING</b><br>Wed, Feb. 28<br>3:40 PM<br>109 Nicholson Hall | "Multifunctional Properties of Substituted Mn-based Heusler Alloys"<br><u>Abstract</u>                         | Shane Stadler        | Southern Illinois University                                                             | Phil Adams                          |
| March 1                                                                                     | "The HST/ACS Survey of Galactic Globular Clusters"<br><u>Abstract</u>                                          | Ata Sarajedini       | University of Florida                                                                    | Arlo Landolt                        |
| March 8                                                                                     | "Dust Yields in Clumpy SNe Shells: 1987A Revisited"<br><u>Abstract</u>                                         | Barbara Ercolano     | Harvard-Smithsonian Center for Astrophysics                                              | Geoffrey Clayton                    |
| <b>SPECIAL SEMINAR</b><br>Mon, March 12<br>3:40 PM<br>109 Nicholson Hall                    | "A Unifying Perspective on Charge Fractionalization"<br><u>Abstract</u>                                        | Alexander Seidel     | Florida State University<br>National High Magnetic Field Laboratory                      | John DiTusa                         |
| <b>SPECIAL SEMINAR</b><br>Tues, March 13<br>3:40 PM<br>109 Nicholson Hall                   | "Critical Point Behavior and the Evolution of Structure in Nuclei"<br><u>Abstract</u>                          | Elizabeth McCutchan  | Yale University<br>Wright Nuclear Structure Laboratory                                   | Jerry Draayer                       |
| March 15                                                                                    | "Quantum Entanglement: A Vanishing Resource"                                                                   | Joe Eberly           | University of Rochester                                                                  | Jonathan Dowling & Robert O'Connell |
| <b>SPECIAL SEMINAR</b><br>Mon, March 19<br>3:40 PM<br>109 Nicholson Hall                    | "Theoretical Approach to Ab-initio Calculations of NMR Spectra for Large Bio-Molecules"<br><u>Abstract</u>     | Timo Thonhauser      | Massachusetts Institute of Technology (MIT) and Rutgers University                       | John DiTusa                         |
| <b>SPECIAL SEMINAR</b><br>Thurs, March 22<br>3:40 PM<br>109 Nicholson Hall                  | "Radioactive Nuclei in the Cosmos"<br><u>Abstract</u>                                                          | Jeff Blackmon        | Oak Ridge National Laboratory                                                            | Jerry Draayer                       |
| <b>SPECIAL SEMINAR</b><br>Mon, March 26<br>3:40 PM<br>109 Nicholson Hall                    | "Probing the Limits of Nuclear Existence through Decay Spectroscopy"<br><u>Abstract</u>                        | Sean Liddick         | University of Tennessee                                                                  | Jerry Draayer                       |
| <b>SPECIAL SEMINAR</b><br>Wed, March 28<br>2:30 PM<br>435 Nicholson Hall                    | "Probing Fundamental Properties of the Weak Interaction: Some Recent Experimental Progress"<br><u>Abstract</u> | Dan Melconian        | Center for Experimental Nuclear Physics & Astrophysics (CENPA), University of Washington | Jerry Draayer                       |
| March 29                                                                                    | "Efficient Quantum Algorithm for Simulating Hamiltonian Evolution"<br><u>Abstract</u>                          | Barry Sanders        | Director, Institute for Quantum Information Sciences                                     | Jonathan Dowling                    |
| April 5                                                                                     | <i>Spring Break</i>                                                                                            |                      |                                                                                          |                                     |
| April 12                                                                                    | "Nonlinear and Quantum Optical Effects in Microrings and Things"<br><u>Abstract</u>                            | John E. Sipe         | Institute for Optical Sciences<br>University of Toronto                                  | Jonathan Dowling                    |
| April 19                                                                                    | "Minimum Energy Requirements for Quantum Computing"<br><u>Abstract</u>                                         | Julio Gea-Banacloche | University of Arkansas                                                                   | Jonathan Dowling                    |

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| April 26                                                                                          | "Tidbits About Qubits: Spin Computation in Nanostructures"<br><a href="#">Abstract</a>                            | Sankar Das Sarma     | University of Maryland                    | John DiTusa   |
| <b>SPECIAL SEMINAR<br/>PHYSICS &amp; CCT<br/>Thu, April 26<br/>1:40 PM<br/>435 Nicholson Hall</b> | "Hubbard Model with Phonons: Superconductivity, Polaron Formation and Isotope Effect"<br><a href="#">Abstract</a> | Alexandru Macridin   | University of Cincinnati                  | John DiTusa   |
| <b>SPECIAL SEMINAR<br/>PHYSICS &amp; CCT<br/>Mon, April 30<br/>2:40 PM<br/>435 Nicholson Hall</b> | "Do Spin Glasses Order in a Field?"<br><a href="#">Abstract</a>                                                   | Helmut G. Katzgraber | ETH Zurich,<br>Switzerland                | John DiTusa   |
| May 3                                                                                             | "Topological Hysteresis in Superconductors and Ferromagnets"<br><a href="#">Abstract</a>                          | Ruslan Prozorov      | Ames Laboratory,<br>Iowa State University | Phillip Adams |
| May 10                                                                                            | "TBA"                                                                                                             | Yuji Matsuda         | Kyoto University,<br>Japan                | Ilya Vekhter  |

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