

endar of events

February 6-12, 2006

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[F] Admission charged, [G] Not open to general public.

All other events are open to members of the University community and the general public free of charge. Any speaker not otherwise identified is a member of the faculty, staff or student body of Princeton University. • Contact Calendar editor • Submissions for future calendars may be made online by completing the calendar submission form. • For copy deadlines, please refer to the PWB deadline schedule.

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Monday, February 6

Arts

7:30 p.m. Center for Human Values film. Luis Buñuel: "The Discreet Charm of the Bourgeoisie." Josiah Ober, speaker. Theater, Rockefeller and Mathey College.

Lectures

4:30 p.m. Near Eastern studies Islamic seminar. "Grandfathers Rediscovered: Sufism in Contemporary Kabylia." Judith Scheele, University of Oxford. 102 Jones.

6 p.m. School of Architecture lecture. "Playgrounds." Luis Mansilla and Emilio Tuñón, Mansilla + Tuñón Arquitectos, Madrid. Betts Auditorium, School of Architecture.

Notices

[G] 4:30 p.m. Faculty meeting. 101 McCormick.

7 p.m. University Store book reading and signing. Matthew Stewart, author of "The Courtier and the Heretic." University Store.

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Tuesday, February 7

Arts

[F] 8 p.m. McCarter Theatre performance. King's Singers. Matthews Theatre.

Lectures

Noon. Population research seminar. "Discrimination in Low Wage Labor Markets." Devah Pager. 300 Wallace.

4 p.m. Chemistry seminar. "Charge Transport in Molecular Monolayers, Multilayers and Thin Films." Cherie Kagan, IBM T.J. Watson Research Center. DuPont Seminar Room, 324 Frick.

4:15 p.m. Astrophysical sciences astronomy colloquium. "The Triple Nucleus and Supermassive Black Hole of M31." Ralf Bender, Max-Planck-Institut fuer Extraterrestrische Physik, Germany. Auditorium, Peyton. Social gathering at 5:15 p.m., main hallway.

4:30 p.m. Mathematics algebraic geometry seminar. Grigory Mikhalkin, University of Toronto. 322 Fine.

4:30 p.m. Operations research and financial engineering seminar. "Detecting Changes in the Rate of a Poisson Process." George Moustakides, University of Thessaly, Greece. E219 Engineering Quadrangle.

4:30 p.m. Woodrow Wilson School/graduate career services lecture. "Business and Finance at

SEMINARS

Updated: 1-18-2006

JANUARY

Special Seminar

Topic: Symmetric tensors and enumeration of Hamiltonian cycles in graphs

Presenter: **Peter Zograf**, Steklov Mathematical Institute

Date: Friday, January 20, 2006, Time: 2:15 p.m., Location: Fine Hall 314

Abstract: A Hamiltonian cycle is a closed path that traverses each vertex of a graph exactly once. The problem of finding a Hamiltonian cycle in a graph is a well known NP-hard problem, a discrete relative of the famous Traveling Salesman Problem. Even to decide whether a graph contains a Hamiltonian cycle (without actually finding it) is computationally NP-hard.

This talk will explain how one can enumerate Hamiltonian cycles in a graph by contracting certain symmetric tensors along the edges of the graph. The method is rather general and applies to other enumeration problems in graphs, like edge colorings, perfect matchings, etc.

Analysis Seminar *** Please note special date

Topic: The structure of entropy solutions of nonlinear scalar conservation laws

Presenter: **Felix Otto**, Institute for Applied Mathematics, University of Bonn

Date: **Wednesday, January 25, 2006**, Time: 4:00 p.m., Location: Fine Hall 214

Geometric Analysis Seminar

Topic: Holomorphic vector fields and deformation rigidity

Presenter: **Ngaiming Mok**, The University of Hong Kong

Date: Friday, January 27, 2006, Time: 3:00 p.m., Location: Fine Hall 314

FEBRUARY

Algebraic Geometry Seminar

Topic: TBA

Presenter: **G. Mikhalkin**, University of Toronto

Date: Tuesday, February 7, 2006, Time: 4:30 p.m., Location: Fine Hall 322

Operation Research and Financial Engineering Seminar

Topic: Detecting changes in the rate of a Poisson process

Presenter: **George Moustakides**, University of Thessaly

Date: Tuesday, February 7, 2006, Time: 4:30 p.m., Location: Room E-219, Engineering Quad

Abstract: We consider the Cumulative Sum (CUSUM) test as a possible candidate to sequentially detect a change in the rate of a homogeneous Poisson process. We first derive a closed form

expression for the average run length of the CUSUM stopping time, which we then use to prove optimality of the CUSUM test in the sense of Lorden. Specifically, we demonstrate that the CUSUM stopping time minimizes the maximal possible conditional detection delay under the constraint, that the average period between false alarms is no less than a prescribed value.

Geometric Analysis Seminar

Topic: TBA

Presenter: **Christina Sormani**, City University of New York

Date: Friday, February 10, 2006, Time: 3:00 p.m., Location: Fine Hall 314

PACM Seminar

Topic: Fault-Tolerant Quantum Computation

Presenter: **Barbara Terhal**, IBM

Date: Monday, February 13, 2006, Time: 4:00 p.m., Location: Fine Hall 214

Abstract: I will review the theory of fault-tolerant quantum computation and the use of quantum error-correcting codes in future quantum computers. I will discuss the most recent developments in this area.

Algebraic Geometry Seminar

Topic: TBA

Presenter: **V. Alexeev**, University of Georgia

Date: Tuesday, February 14, 2006, Time: 4:30 p.m., Location: Fine Hall 322

Operation Research and Financial Engineering Seminar

Topic: TBA

Presenter: **Michael Overton**, New York University

Date: Tuesday, February 14, 2006, Time: 4:30 p.m., Location: Room E-219, Engineering Quad

Geometric Analysis Seminar

Topic: TBA

Presenter: **Natasa Sesum**, Columbia University

Date: Friday, February 17, 2006, Time: 3:00 p.m., Location: Fine Hall 314

PACM Seminar

Topic: Math Problems from the Far Side of Quantum Information

Presenter: **Christopher A. Fuchs**, Bell Labs, Lucent Technologies

Date: Monday, February 20, 2006, Time: 4:00 p.m., Location: Fine Hall 214

Abstract: The field of Quantum Information has recently rightly attracted great interest for the technological fruits it may bear. But there is a sect of its practitioners who think it stands a chance to bring us much more than that---namely, that its theoretical tools will give us a means for exploring what quantum mechanics is really all about and for settling some of the deepest problems in physics. The roots of this optimism come from a very old thought: that a quantum state has more to do with representing its user's information, than any inherent physical