
Mathematics Calendar

The most comprehensive and up-to-date Mathematics Calendar information is available on the AMS website at <http://www.ams.org/mathcal/>.

October 2007

- * 22–26 **The practice and theory of stochastic simulation**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, concerns approaches for the numerical integration of stochastic systems which span many temporal-scales. Molecular dynamics and stochastic simulations in chemical kinetics, in particular, are two important examples among several other which require efficient and accurate integrators. The simulations of these systems generate many important questions which, so far, remain mostly open. Can stochastic differential equations (SDEs) represent a viable alternative to thermostats such as Nose-Hoover or Andersen for the simulation of systems in ensembles other than the microcanonical one? How to guarantee the ergodicity of integrators for such SDEs and assess their rate of convergence, accuracy and efficiency? How to efficiently compute expectation and free energies using such integrators, especially in systems displaying metastability? Activities at the workshop will focus on new developments and related issues in these areas.

Information: email: farmer@aimath.org event_day1; <http://aimath.org/ARCC/workshops/stochasticsim.html>.

November 2007

- * 15–16 **Leonhard Euler (Mathematics and Music)**, Institut de Recherche Mathématique Avancée, Université Louis Pasteur, 7 rue Descartes, 67084, Strasbourg, France.

Description: To celebrate the three hundredth anniversary of the birth of Leonhard Euler, the conference will present some aspects of his work on mathematics, acoustics and theoretical music.

Speakers will include: Patrice Bailhache (Nantes), Dominique

Foata (Strasbourg), Franck Jedrzejewski (CEA Paris), Pierre Jehel (ENS Cachan), Eberhard Knobloch (Berlin), François Nicolas (ENS Paris), Norbert Schappacher (IRMA) and Gérard Wanner (Genève).

Information: <http://www-irma.u-strasbg.fr/article515.html>; email: papadopoulos@math.u-strasbg.fr.

- * 15–21 **Advanced School on Numerical Solutions of Partial Differential Equations: New Trends and Applications**, Centre de Recerca Matemàtica, Bellaterra, Italy.

Coordinators: José A. Carrillo, ICREA-UAB; Rosa Donat, Universitat de València; Carlos Parés, Universidad de Málaga; Yolanda Vidal, Universitat Politècnica de Catalunya.

Speakers: Blanca Ayuso, Universidad Autónoma de Madrid; Sonia Fernández-Méndez, Universitat Politècnica de Catalunya; Enrique Fernández-Nieto, Universidad de Sevilla; Francis Filbet, Université de Claude Bernard –Lyon I; Gabriella Puppo, Politecnico di Torino.

Further information: <http://www.crm.cat/ASPDEs>.

January 2008

- * 1–March 31 **DocCourse in Combinatorics and Geometry: Additive Combinatorics**, Centre de Recerca Matemàtica, Bellaterra, Italy.

Coordinators: Javier Cilleruelo, Universidad Autónoma de Madrid; Marc Noy, Universitat Politècnica de Catalunya; Oriol Serra, Universitat Politècnica de Catalunya.

Speakers: Alfred Geroldinger, University of Graz, Institute for Mathematics and Scientific Computing, Algebraic Methods in Additive Combinatorics; Imre Z. Ruzsa, Alfréd Rényi Institute of Mathematics, Budapest, Sumsets and structure.

Information: <http://www.crm.cat/AdditiveCombinatorics>.

- * 2–4 **Tenth International Symposium on Artificial Intelligence**

This section contains announcements of meetings and conferences of interest to some segment of the mathematical public, including ad hoc, local, or regional meetings, and meetings and symposia devoted to specialized topics, as well as announcements of regularly scheduled meetings of national or international mathematical organizations. A complete list of meetings of the Society can be found on the last page of each issue.

An announcement will be published in the *Notices* if it contains a call for papers and specifies the place, date, subject (when applicable), and the speakers; a second announcement will be published only if there are changes or necessary additional information. Once an announcement has appeared, the event will be briefly noted in every third issue until it has been held and a reference will be given in parentheses to the month, year, and page of the issue in which the complete information appeared. Asterisks (*) mark those announcements containing new or revised information.

In general, announcements of meetings and conferences held in North America carry only the date, title of meeting, place of meeting, names of speakers (or sometimes a general statement on the program), deadlines for abstracts or contributed papers, and source of further information. Meetings held outside the North American area may carry more detailed information. In any case, if there is any application deadline with

respect to participation in the meeting, this fact should be noted. All communications on meetings and conferences in the mathematical sciences should be sent to the Editor of the *Notices* in care of the American Mathematical Society in Providence or electronically to notices@ams.org or mathcal@ams.org.

In order to allow participants to arrange their travel plans, organizers of meetings are urged to submit information for these listings early enough to allow them to appear in more than one issue of the *Notices* prior to the meeting in question. To achieve this, listings should be received in Providence **eight months** prior to the scheduled date of the meeting.

The complete listing of the Mathematics Calendar will be published only in the September issue of the *Notices*. The March, June/July, and December issues will include, along with new announcements, references to any previously announced meetings and conferences occurring within the twelve-month period following the month of those issues. New information about meetings and conferences that will occur later than the twelve-month period will be announced once in full and will not be repeated until the date of the conference or meeting falls within the twelve-month period.

The Mathematics Calendar, as well as Meetings and Conferences of the AMS, is now available electronically through the AMS website on the World Wide Web. To access the AMS website, use the URL: <http://www.ams.org/>.

and Mathematics (ISAIM 2008), Fort Lauderdale, Florida.

Description: We seek submissions of recent results with a particular emphasis on the foundations of AI and mathematical methods used in AI. Papers describing applications are also encouraged, but the focus should be on principled lessons learned from the development of the application.

Deadline: Paper Submission: October 1, 2007.

Invited Speakers: David McAllester, Toyota Technological Institute at Chicago, USA; Francesca Rossi, Padova University, Italy; Naftali Tishby, The Hebrew University, Israel.

Information: <http://isaim2008.unl.edu>.

Special Topic Invited Sessions: Logic in Artificial Intelligence Special Session in Honor of the 65th Birthday of Victor Marek. Organized by Michael Kaminski and Mirek Truszczyński; Computation and Social Choice. Organized by Toby Walsh, NICTA and University of New South Wales. Other special sessions may be announced soon.

February 2008

* 4–14 **Advanced Course on Simplicial Methods in Higher Categories**, Centre de Recerca Matemàtica, Bellaterra, Italy.

Coordinators: Carles Casacuberta, Universitat de Barcelona; Joachim Kock, Universitat Autònoma de Barcelona.

Speakers: André Joyal, Université du Québec à Montréal, The theory of quasi-categories and its applications; Ieke Moerdijk, Universiteit Utrecht, Dendroidal sets; Bertrand Toën, Université Paul Sabatier, Simplicial presheaves and derived geometries.

Further information: <http://www.crm.cat/ACQuasiCategories>.

* 12–16 **Foundations of Lattice-Valued Mathematics with Applications to Algebra and Topology**, Linz, Austria.

Description: The last decade has witnessed a significant development of the categorical, logical, and order-theoretic foundations of lattice-valued mathematics and their impact on algebra and topology. These developments have created or significantly strengthened bridges between lattice-valued mathematics, logic, sheaves, algebraic theories, quantales and order-theoretic structures, various subdisciplines of topology, and theoretical computer science. The purpose of the 29th Linz Seminar is to discuss the synergy between these fields as well as identify important open questions. Accordingly, the topics of the Seminar will include but not be limited to: Categorical and logical approaches to lattice valued algebraic structures, powerset theories, topological structures, Lattice valued categories, equivalences, locales, orders, topologies Presheaf and sheaf theoretic approaches to lattice valued structures Programming semantics, semantic domains, topological systems.

Information: email: fabrizio.durante@jku.at; <http://www.f111.jku.at/research/linz2008/index.html>.

March 2008

* 12–19 **Advanced Course on Geometric Flows and Hyperbolic Geometry**, Centre de Recerca Matemàtica, Bellaterra, Italy.

Coordinators: Joan Porti, Universitat Autònoma de Barcelona; Vicente Miquel, Universitat de València.

Speakers: Ben Chow, University of California at San Diego, Some geometric and analytic aspects of geometric flows; Manuel Ritoré, Universidad de Granada, Geometric flows, isoperimetric inequalities, and hyperbolic geometry; Carlo Sinestrari, Università degli Studi di Roma Tor Vergata, Formation of singularities in mean curvature flow.

Further information: <http://www.crm.cat/ACGeometryFlows>.

April 2008

* 24–26 **SIAM International Conference on Data Mining**, Hyatt Regency Hotel, Atlanta, Georgia.

Information: Abstract due: October 5, 2007. Manuscripts due: October 12, 2007. For additional information, contact SIAM Conference

Department at meetings@siam.org.

May 2008

* 10–13 **SIAM Conference on Optimization**, Boston Park Plaza Hotel and Towers, Boston, Massachusetts.

Invited Plenary Speakers: Etienne de Klerk, Tilburg University, Netherlands; Matthias Heinkenschloss, Rice University; Jan Mordesitzki, University of Lubeck, Germany; Annick Sartenaer, Université Notre Dame de la Paix, Belgium; Stefan Scholtes, Cambridge University, United Kingdom; Pascal Van Hentenryck, Brown University; Andreas Wächter, IBM Research; Robert Weismantel, University of Magdeburg, Germany.

Deadlines: Minisymposium proposals: October 9, 2007 EDT. Abstracts for all contributed and minisymposium presentations: November 8, 2007 EST.

Information: The Call for Presentations for this conference is available at: <http://www.siam.org/meetings/op08/>. For additional information, contact SIAM Conference Department at meetings@siam.org.

June 2008

* 23–27 **Homotopical Group Theory and Topological Algebraic Geometry**, Max Planck Institute for Mathematics, Bonn, Germany.

Conference Topics: The conference focuses on the new interactions of Algebraic Topology with Group Theory, Algebraic Geometry and Mathematical Physics which come from looking at these fields through the eye of a homotopy theorist. It celebrates one of the contributors to the subject by honoring the 60th birthday of Haynes Miller (MIT).

Registration: All participants are required to register.

Organizers: M. Ando (UIUC), J. Grodal (Copenhagen), G. Laures (Bochum), B. Shipley (UIC).

Financial support: The conference is partially supported by the DFG Graduiertenkolleg 1150 "Homotopy and Cohomology" and the Max Planck Institute Bonn. Support from the National Science Foundation for beginning researchers is under application.

Information: <http://www.ruhr-uni-bochum.de/topologie/conf08/>.

November 2009

* 1–30 **5th Asian Mathematical Conference (AMC2009)**, Penang/Kualalumpur, Malaysia.

Description: Activities of the conference will include the following: Keynote addresses by internationally renowned mathematicians; Invited talks by prominent regional mathematicians; Contributed papers; Workshops Focus Areas of this conference are: Algebra; Algebraic Geometry; Analysis; Operator Algebra & Functional Analysis; Lie Groups and Lie Algebras; Number Theory; Combinatorics; Logic & Foundations of Mathematics; Ordinary Differential Equations and Dynamical Systems; Partial Differential Equations; Topology; Mathematical Aspects of Computer Science; Numerical Analysis and Scientific Computing; Control Theory, Optimization and Operations Research; Probability and Stochastic Process; Statistics; Application of Mathematics in Sciences.

Information: email: v ravi@maths.du.ac; <http://math.usm.my/amc2009>.