
Mathematics Calendar

Please submit conference information for the Mathematics Calendar through the Mathematics Calendar submission form at <http://www.ams.org/cgi-bin/mathcal-submit.pl>. The most comprehensive and up-to-date Mathematics Calendar information is available on the AMS website at <http://www.ams.org/mathcal/>.

December 2008

1–4 **SGT-in-Rio: Workshop on Spectral Graph theory with applications on Computer Science, Combinatorial Optimization and Chemistry**, Military Institute of Engineering, Rio de Janeiro, Brazil. (May 2008, p. 635)

1–5 **Nonnegative Matrix Theory: Generalizations and Applications**, American Institute of Mathematics, Palo Alto, California. (Jun./Jul. 2008, p. 740)

5–8 **International Conference on Partial Differential Equations and Applications in honour of Professor Philippe G. Ciarlet's 70th birthday**, City University of Hong Kong, Kowloon, Hong Kong. (Aug. 2008, p. 870)

8–12 **FEMTEC 2008 (Finite Element Methods in Engineering and Science)**, University of Texas at El Paso, Texas. (Jun./Jul. 2008, p. 740)

8–12 **Small Ball Inequalities in Analysis, Probability and Irregularities of Distribution**, American Institute of Mathematics, Palo Alto, California. (May 2008, p. 635)

8–22 **Algebraic Topology, Braids and Mapping Class Groups**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Jun./Jul. 2008, p. 740)

* 10–12 **MACIS 2008 – Third International Conference on Mathematical Aspects of Computer and Information Sciences**, Buenos Aires, Argentina.

Description: Mathematical Aspects of Computer and Information Sciences (MACIS) is a new series of conferences where foundational research on theoretical and practical problems of mathematics for

computing and information processing may be presented and discussed. MACIS also addresses experimental and case studies, scientific and engineering computation, design and implementation of algorithms and software systems, and applications of mathematical methods and tools to outstanding and emerging problems in applied computer and information sciences. Each conference focuses on two or three themes. MACIS 2008 themes: (1) Complex Systems and Networks (2) Certified and Reliable Computation (3) Computational Algebraic Geometry.

* 10–12 **Workshop on Triangulated Categories**, Mathematics Department, Swansea University, Swansea, United Kingdom.

Description: This workshop is to bring together mathematicians working in algebraic geometry and topology, mathematical physics, representation theory in order to exchange results, questions and points of view on the role of triangulated categories in their respective fields.

Information: <http://www-maths.swan.ac.uk/staff/gg/Workshop/index.html>; email: G.Garkusha@swansea.ac.uk.

10–14 **Ninth Pacific Rim Geometry Conference**, National Taiwan University, Taipei, Taiwan. (Jun./Jul. 2008, p. 740)

* 13–14 **Palmetto Number Theory Series VIII**, University of South Carolina, Columbia, South Carolina.

Description: One of three regular number theory meetings per year held in the state of South Carolina.

Information: <http://www.math.sc.edu/~boylan/seminars/pants8.html>.

13–17 **The 48th American Society for Cell Biology Annual Meeting**, The Moscone Center, San Francisco, California. (May 2008, p. 636)

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 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. 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/>.

15-19 **4th International Conference on Combinatorial Mathematics and Combinatorial Computing (4ICC)**, University of Auckland, Auckland, New Zealand. (Jun./Jul. 2008, p. 740)

15-19 **The 13th Asian Technology Conference in Mathematics (ATCM 2008)**, Suan Sunandha Rajabhat University, Bangkok, Thailand. (Mar. 2008, p. 413)

17-21 **First Joint International Meeting with the Shanghai Mathematical Society**, Shanghai, China. (Jun./Jul. 2007, p. 784)

18-20 **Pre-ICM International Convention on Mathematical Sciences**, University of Delhi, Delhi, India. (Jun./Jul. 2008, p. 741)

19-21 **Centenary Celebration of Calcutta Mathematical Society: International Symposium on Recent Advances in Mathematics and its Applications: (ISRAMA 2008)**, Calcutta Mathematical Society at AE-374, Sector-1, Salt Lake City Kolkata (Calcutta) 700064, India. (Aug. 2008, p. 870)

22-23 **Mathematical Sciences for Advancement of Science and Technology (MSAST 2008)**, Institute for Mathematics, Bioinformatics, Information Technology and Computer Science (IMBIC), Salt Lake City, Kolkata (Calcutta), India. (Aug. 2008, p. 870)

23-26 **International Conference on Computer Analysis of Science and Technology problems**, Tajik State National University (TSNU), Dushanbe, Tajikistan. (Mar. 2008, p. 413)

* 29-31 **VI International Symposium on Optimization and Statistics (ISOS-2008)**, Aligarh Muslim University, Aligarh, India.

Description: The aim of holding the symposium is to disseminate and highlight the current researches in all the branches of Statistics and Operations Research.

Enquiries: All the queries/correspondence regarding registration, abstract/paper submission, accommodation, travel etc. should be addressed to: Professor A. H. Khan, Director International Symposium 2008, Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh-202 002, India; Phone: +91 571 2701251 (Dept.), +91 571 2720601 (Res.); Cell #: + 919411047042; email: ahamidkhan@rediffmail.com; chairman.stats@gmail.com; or Professor M. J. Ahsan, Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh-202 002, India; Cell #: +919897356448; email: mjahsan2001@yahoo.co.in; http://www.amu.ac.in/shared/sublinkimages/isos2008.pdf.

January 2009

1-March 31 **I-Math Winter School DocCourse Combinatorics and Geometry 2009: Discrete and Computational Geometry**, Centre de Recerca Matemàtica, Bellaterra, Spain. (Sept. 2008, p. 1028)

1-June 30 **Research Program on Mathematical Biology: Modelling and Differential Equations: An i-MATH activity**, Centre de Recerca Matemàtica, Bellaterra, Spain. (Nov. 2008, p. 1318)

4-6 **ACM-SIAM Symposium on Discrete Algorithms (SODA09)**, New York Marriott Downtown, New York, New York. (Aug. 2008, p. 870)

5-8 **Joint Mathematics Meetings**, Washington, District of Columbia. (Aug. 2008, p. 870)

4-9 **Workshop on Random Functions and Random Surfaces and Interfaces**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jan. 2008, p. 78)

5-8 **Joint Mathematics Meetings**, Washington, D.C. (May 2008, p. 636)

5-16 **Group Theory, Combinatorics and Computation**, The University of Western Australia, Perth, Australia. (May 2008, p. 636)

* 8-9 **Communicating Complex Statistical Evidence: A conference sponsored by the Cambridge Statistics Initiative and the Winton Programme for the Public Understanding of Risk**, Meeting Room 2, Centre for Mathematical Sciences, Cambridge, United Kingdom.

Theme: Complex statistical models and reasoning can play a major role in informing both policy and individual decisions, but it is not necessarily straightforward to communicate what may be rather subtle statistical issues. This conference will bring together people interested in techniques to maximize the credibility and impact of statistical science in a range of important contexts, including health

policy, climate change projections and impact, crime and the law, and epidemic control.

Program: There will be a single strand with no parallel sessions, featuring invited and contributed papers. Contributed papers or posters on a topic relevant to the overall meeting theme are invited.

Conference Chairs: Philip Dawid and David Spiegelhalter. <http://ccseconf.org>.

8-10 **2009 International Joint Conference**, Singapore (Sept. 2008, p. 1028)

12-16 **Quantitative and Computational Aspects of Metric Geometry**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Aug. 2008, p. 870)

12-May 22 **Algebraic Geometry**, Mathematical Sciences Research Institute, Berkeley, California. (Jun./Jul. 2008, p. 741)

12-June 26 **Algebraic Lie Theory**, Isaac Newton Institute for Mathematical Sciences, 20 Clarkson Road, Cambridge CB3 0EH, United Kingdom. (Aug. 2008, p. 870)

14-16 **International Conference on Modeling of Engineering and Technological Problems and 9th National Conference of Indian Society of Industrial & Applied Mathematics**, BMAS Engineering College, Sharda Group, Agra, India. (Aug. 2008, p. 870)

* 17 **The N+4th Southern California Topology Conference**, California Institute of Technology, Pasadena, California.

Description: This regional topology conference has been held on and off for O(N) years. It takes place on a single day, usually in winter, and is typically well-attended by the Southern California topological community. Some travel support for graduate students is anticipated; contact Danny Calegari for details if you are interested.

Information: <http://www.its.caltech.edu/~dannyc/sctc/sctc2009.html>

19-July 3 **Discrete Integrable Systems**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Aug. 2008, p. 871)

22-24 **Connections for Women: Algebraic Geometry and Related Fields**, Mathematical Sciences Research Institute, Berkeley, California. (Jun./Jul. 2008, p. 741)

22-30 **Numerical Approaches to Quantum Many-Body Systems**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Aug. 2008, p. 871)

26-30 **Classical Algebraic Geometry**, Mathematical Sciences Research Institute, Berkeley, California. (Jun./Jul. 2008, p. 741)

* 30-February 1 **Fifth International Conference on Technology, Knowledge and Society**, Huntsville, Alabama.

Description: This conference will address a range of critically important themes in the various fields that address the relationships between technology, knowledge and society. The conference is cross-disciplinary in scope, a meeting point for technologists with a concern for the social and social scientists with a concern for the technological. The focus is primarily, but not exclusively, on information and communications technologies. As well as impressive line-up of international main speakers, the conference will also include numerous paper, workshop and colloquium presentations by practitioners, teachers and researchers.

Deadline: The deadline for the next round in the call for papers (a title and short abstract) is 9 October 2008. Future deadlines will be announced on the conference website after this date. Proposals are reviewed within two weeks of submission. Full details of the conference, including an online proposal submission form, are to be found at the conference website: <http://www.Technology-Conference.com>.

February 2009

1-July 15 **Research Programme on Harmonic Analysis, Geometric Measure Theory and Quasiconformal Mappings: An i-MATH activity**, Centre de Recerca Matemàtica, Bellaterra, Spain. (Nov. 2008, p. 1318)

* 2-6 **Advanced Course on Mathematical Biology: Modeling and Differential Equations**, Centre de Recerca Matemàtica, Campus de la Universitat Autònoma, Barcelona, Spain.

Scientific Committee: Rafael Bravo, Àngel Calsina, José A. Carrillo (coordinator), Antoni Guillamon, Benoît Perthame, Angela Stevens.

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

3–7 **30th Linz Seminar on Fuzzy Set Theory**, Bildungszentrum St. Magdalena, Linz, Austria. (Nov. 2008, p. 1319)

* 9–13 **Conference on Mathematical Biology: Modeling and Differential Equations**, Centre de Recerca Matemàtica, Campus de la Universitat Autònoma Barcelona, Spain.

Scientific Committee: Rafael Bravo, Àngel Calsina (coordinator), José A. Carrillo, Antoni Guillamon, Benoît Perthame, Angela Stevens.

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

9–13 **Laplacian Eigenvalues and Eigenfunctions: Theory, Computation, Application**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Aug. 2008, p. 871)

16–20 **Workshop on Complex Geometry**, University of Adelaide, Australia. (Nov. 2008, p. 1319)

16–21 **III School and Workshop on Mathematical Methods in Quantum Mechanics**, Casa della Gioventù, Bressanone/Brixen, Italy. (Oct. 2008, p. 1134)

23–27 **Modern Moduli Theory**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2008, p. 871)

23–27 **Rare Events in High-Dimensional Systems**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Aug. 2008, p. 871)

March 2009

9–June 12 **Quantum and Kinetic Transport: Analysis, Computations, and New Applications**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Apr. 2008, p. 526)

* 10–13 **IPAM/Quantum and Kinetic Transport Equations: Tutorials**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Overview: The tutorials will familiarize participants with issues and techniques involved in quantum and kinetic transport.

Main topics: Mathematical transition from quantum, classical, to hydrodynamics scales; Computational methods for mixed scale problems; Quantum and kinetic models in emerging new applications; Current status of analysis on kinetic equations.

Application/Registration: An application and registration form is available at <http://www.ipam.ucla.edu/programs/kttut>. Applications received by Jan. 26, 2009, will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also register and attend without IPAM funding.

Organizing Committee: Eric Carlen, Pierre Degond, Irene Gamba, Frank Graziani, Shi Jin, Karl Kempf, Dave Levermore, Peter Markowich, Stanley Osher, Christian Ringhofer, Marshall Slemrod.

Information: <http://www.ipam.ucla.edu/programs/kttut/>; email: sbeggs@ipam.ucla.edu.

14 **Statistical Methods for Complex Data: A conference in honor of the 60th birthday of Raymond J. Carroll**, Texas A&M University, Department of Statistics, College Station, Texas. (Sept. 2008, p. 1030)

* 15–17 **Frontier Probability Days 2009**, University of Utah, Salt Lake City, Utah.

Description: "Frontier Probability Days 2009" (FPD'09) is a regional workshop, taking place at the University of Utah, Salt Lake City, UT, on March 15–17, 2009. Its purpose is to bring together mathematicians, both regionally as well as globally, who have an interest in probability and its applications. This will complement other regional conferences that are held annually elsewhere in the U.S.

Information: <http://www.math.utah.edu/~firas/FPD>.

15–20 **ALGORITMY 2009 Conference on Scientific Computing**, Hotel Permon, Podbanske, High Tatra Mountains, Slovak Republic. (Jun./Jul. 2008, p. 741)

18–20 **IAENG International Conference on Scientific Computing ICSC 2009**, Regal Kowloon Hotel, Kowloon, Hong Kong. (Aug. 2008, p. 871)

22–26 **SETIT 2009: The Fifth International Conference Sciences of Electronic, Technologies of Information and Telecommunications**, Hammamet, Tunisia. (Nov. 2008, p. 1319)

23–27 **Combinatorial, Enumerative and Toric Geometry**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2008, p. 871)

* 27–28 **35th Annual New York State Regional Graduate Mathematics Conference**, Syracuse University, Syracuse, New York.

Description: This two day conference has been run and organized entirely by the graduate students of the Syracuse University Mathematics Department for the last 35 years. This year our Opening Address will be given by Laszlo Lempert of Purdue University on Friday March 27, 2009, and our Keynote Address will be given by Brian Conrey of the American Institute of Mathematics on Saturday March 28, 2009.

Information: <http://webwork.syr.edu/~mgo/>; email: tsbleier@syr.edu.

27–29 **AMS Central Section Meeting**, University of Illinois at Urbana-Champaign, Urbana, Illinois. (Aug. 2008, p. 871)

27–29 **GSCC09: Fifth Annual Graduate Student Combinatorics Conference**, University of Kentucky, Lexington, Kentucky. (Oct. 2008, p. 1134)

* 30–April 3 **Quantum and Kinetic Transport: Computational Kinetic Transport and Hybrid Methods**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Overview: This workshop will focus on computational modeling of kinetic transport models that arise in various kinetic transport problems. Hybridization of computational schemes linking multi-scale and multi-physics will also be addressed. The aim of this workshop is to examine the current states of computational transport, and to foster interdisciplinary interactions among researchers from mathematics, physics, chemistry, engineering, and related disciplines.

Organizing Committee: Pierre Degond, Bjorn Engquist, Frank Graziani, Shi Jin, Caroline Lasser, Anna-Karin Tornberg.

Application/Registration: An application and registration form is available at <http://www.ipam.ucla.edu/programs/ktws1>. Applications received by Feb. 16, 2009, will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also register and attend without IPAM funding.

Information: email: sbeggs@ipam.ucla.edu; <http://www.ipam.ucla.edu/programs/ktws1/>.

April 2009

4–5 **AMS Southeastern Section Meeting**, North Carolina State University, Raleigh, North Carolina. (Aug. 2008, p. 871)

6–10 **The 3D Euler and 2D surface quasi-geostrophic equations**, American Institute of Mathematics, Palo Alto, California. (May 2008, p. 636)

* 15–17 **Quantum and Kinetic Transport: The Boltzmann Equation—DiPerna-Lions Plus 20 Years**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Overview: Areas of discussion of this three-day workshop will include the spatially homogeneous and inhomogeneous Boltzmann equation, their hydrodynamic limits, and collisionless Vlasov models in plasma in the classical and relativistic framework with the coupling to Maxwell-Poisson systems.

Organizing Committee: Irene Gamba, Reinhard Illner, Dave Levermore, Laure Saint Raymond, Marshall Slemrod.

Application/Registration: An application and registration form is available at <http://www.ipam.ucla.edu/programs/ktws2>. Applications received by March 4, 2009, will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also register and attend without IPAM funding.

Information: <http://www.ipam.ucla.edu/programs/ktws2/>; email: sbeggs@ipam.ucla.edu.

* 16-18 **New Results on the Discrepancy Function, and Related Results, University of Arkansas Spring Lecture Series**, University of Arkansas, Fayetteville, Arkansas.

Description: New Results on the Discrepancy Function, and Related Results, 34th University of Arkansas Spring Lecture Series, April 16-18 2009. Main Speaker Michael Lacey (Georgia Tech).

Information: <http://math.uark.edu>; email: lcapogna@uark.edu.

* 20-22 **Geometry and Physics: Atiyah80**, Edinburgh, Scotland, United Kingdom.

Description: The workshop is planned to coincide with the 80th birthday on April 22, 2009 of Sir Michael Atiyah PRS, PRSE, Fields and Abel Medallist, and undoubtedly the most influential British mathematician of the last 50 years. Perhaps the most exciting interaction between physics and mathematics at the moment is in Quantum Field Theory and String Theory. The proposed workshop is intended to bring the world leaders in this interaction to Edinburgh; to exchange ideas, to give lectures to active practitioners in the fields and to announce their latest results.

Information: <http://www.icms.org.uk/workshops/Atiyah80>; email: a.ranicki@ed.ac.uk.

25-26 **AMS Eastern Section Meeting**, Worcester Polytechnic Institute, Worcester, Massachusetts. (Aug. 2008, p. 871)

25-26 **AMS Western Section Meeting**, San Francisco State University, San Francisco, California. (Aug. 2008, p. 872)

27-May 1 **Combinatorial Challenges in Toric Varieties**, American Institute of Mathematics, Palo Alto, California. (Jun./Jul. 2008, p. 741)

* 27-May 1 **Quantum and Kinetic Transport: Flows and Networks in Complex Media**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Organizing Committee: M. C. Carvalho, Karl Kempf, Stephan Mischler, Benedetto Piccoli, Christian Ringhofer.

Overview: This workshop is directed toward particle flows in complex topologies, either in the form of networks and graphs, or in the form of random or quasi-periodic media. The workshop's aim is to bring together an interdisciplinary group of researchers in different areas such as traffic flow simulation, supply chain management and physical flows in random media. These areas share a number of common challenges and require therefore the usage of similar mathematical toolboxes.

Application/Registration: An application and registration form is available at: <http://www.ipam.ucla.edu/programs/ktws3>. Applications received by Mar. 16, 2009, will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also register and attend without IPAM funding.

Information: <http://www.ipam.ucla.edu/programs/ktws3/>; email: sbeggs@ipam.ucla.edu.

* 30-May 2 **SIAM International Conference on Data Mining**, John Ascuaga's Nugget, Sparks, Nevada.

Description: SIAM International Conference on Data Mining. Call for Papers Now Available!

Information: The Call for Papers for this conference is now available. Please visit <http://www.siam.org/meetings/sdm09/> for more information.

Deadlines: October 3, 2008: Abstracts Due; October 3, 2008: Proposal for Workshop and Tutorials; October 10, 2008: Manuscripts Due. For additional information, contact SIAM Conference Department at meetings@siam.org.

May 2009

* 1-June 20 **INdAM Intensive Period "Geometric Properties of Non-linear Local and Nonlocal Problems"**, Department of Mathematics "F. Brioschi", Politecnico di Milano, Milan, Italy; Department of Mathematics "F. Casorati", University of Pavia, Pavia, Italy.

Description: It is a Concentration Period sponsored by the Italian INdAM. We plan to have both courses and seminars. The courses will be organized over the whole week, from Monday to Friday: approximately half of them will be held in Milan, the other half in Pavia. In particular, this implies that the participants should generally spend

at least 4 nights either in Milan or in Pavia. There will be one-hour seminars, naturally linked to the topics covered in the main courses; we plan to have lessons in the morning, possibly followed by questions time, free discussions, and study time, whereas seminars will be generally scheduled in the afternoon. We also aim at shorter contributions from promising young people; therefore we will offer to young PostDocs and Ph.D. students the possibility of giving a brief communication on their current research.

Information: <http://www.imati.cnr.it/gianazza/bimestre>; email: ugopietro.gianazza@unipv.it.

4-8 **Stochastic and Deterministic Spatial Modeling in Population Dynamics**, American Institute of Mathematics, Palo Alto, California. (Oct. 2008, p. 1134)

7-9 **8th Mississippi State: UAB Conference on Differential Equations and Computational Simulations**, Mississippi State University, Mississippi State, Mississippi. (Nov. 2008, p. 1319)

10-15 **ICMI Study 19: Proof and Proving in Mathematics Education**, Taipei, Taiwan. (May 2008, p. 636)

* 11-13 **TQC 2009: The 4th Workshop on Theory of Quantum Computation, Communication, and Cryptography**, University of Waterloo, Waterloo, Ontario, Canada.

Description: Quantum computation, quantum communication, and quantum cryptography are subfields of quantum information processing, an interdisciplinary field of information science and quantum mechanics. TQC 2009 focuses on theoretical aspects of these subfields. The objective of the workshop is to bring together researchers so that they can interact with each other and share problems and recent discoveries. It will consist of invited talks, contributed talks, and a poster session.

Information: <http://www.iqc.ca/tqc2009>; email: simoseve@gmail.com.

11-15 **Workshop and Advanced Course on Deterministic and Stochastic Modelling in Computational Neuroscience and other Biological Topics**, Barcelona, Spain. (Nov. 2008, p. 1319)

12-14 **7th International Symposium on Hysteresis Modeling and Micromagnetics (HMM-2009)**, Gaithersburg, Maryland. (Nov. 2008, p. 1319)

12-16 (NEW DATE) **First Buea International Conference on the Mathematical Sciences**, University of Buea, Cameroon. (Mar. 2008, p. 408)

17-21 **SIAM Conference on Applications of Dynamical Systems (DS09)**, Snowbird Ski and Summer Resort, Snowbird, Utah. (Oct. 2008, p. 1134)

17-22 **Topology, C*-Algebras, and String Duality - an NSF/CBMS Regional Conference in the Mathematical Sciences**, Texas Christian University, Fort Worth, Texas. (Jun./Jul. 2008, p. 742)

* 18-22 **Quantum and Kinetic Transport: Asymptotic Methods for Dissipative Particle Systems**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Overview: It is the goal of this workshop to bring together researchers from diverse areas, including statistical mechanics, particle systems, probability theory and applications, to discuss developing areas of non-conservative dynamics and the emergence of non-equilibrium statistical states, and to explore potential applications in the natural and social sciences.

Organizing Committee: Irene Gamba, Eric Carlen, Peter Markowich, Anne Nouri, Robert Pego, Mario Pulvirenti, Cederic Villani.

Application/Registration: An application and registration form is available at: <http://www.ipam.ucla.edu/programs/ktws4>. Applications received by April 6, 2009, will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also register and attend without IPAM funding.

Information: <http://www.ipam.ucla.edu/programs/ktws4/>; email: sbeggs@ipam.ucla.edu.

* 18-22 **SAMPTA'09 (Sampling Theory and Applications)**, Centre International de Rencontres Mathématiques (CIRM), Luminy campus, Marseille, France.

Description: SAMPTA'09 is the 8th international conference on Sampling Theory and Applications. The purpose of SAMPTA's is to bring together mathematicians and engineers interested in sampling theory and its applications to related fields (such as signal and image processing, coding theory, control theory, complex analysis, harmonic analysis, differential equations) to exchange recent advances and to discuss open problems. SAMPTA09 will be organized around plenary lectures, general sessions on sampling and applications, and special sessions on selected topics. Ample time will be left for discussions. Please notice that a number of scholarships will be available for young researchers (Ph.D. students and PostDocs), to cover their stay at CIRM.

Information: <http://www.laop.univ-mrs.fr/SAMPTA09>.

18-23 **Workshop on Interacting Stochastic Particle Systems**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jan. 2008, p. 78)

25-29 **6th European Conference on Elliptic and Parabolic Problems**, Hotel Serapo, Gaeta, Italy. (Oct. 2008, p. 1134)

25-29 **14th International Conference on Gambling & Risk Taking**, Harrah's Lake Tahoe, Stateline, Nevada. (Oct. 2008, p. 1134)

27-June 1 **The International Conference "Infinite Dimensional Analysis and Topology"**, Yaremche, Ivano-Frankivsk, Ukraine. (May 2008, p. 636)

June 2009

* 1-3 **Global Conference on Power Control and Optimization (PCO'2009)**, Bali, Indonesia.

Information: <http://www.engedu2.net>; email: vasantglobal@gmail.com.

* 1-5 **2nd Chaotic Modeling and Simulation International Conference (CHAOS2009)**, MAICH Conference Center, Chania, Crete, Greece.

Description: The general topics and the special sessions proposed for the Conference (Chaos2009) include but are not limited to: Chaos and Nonlinear Dynamics, Stochastic Chaos, Chemical Chaos, Data Analysis and Chaos, Hydrodynamics, Turbulence and Plasmas, Optics and Chaos, Chaotic Oscillations and Circuits, Chaos in Climate Dynamics, Geophysical Flows, Biology and Chaos, Neurophysiology and Chaos, Hamiltonian Systems, Chaos in Astronomy and Astrophysics, Chaos and Solitons, Micro- and Nano- Electro-Mechanical Systems, Neural Networks and Chaos, Ecology and Economy.

Information: For more information and submission details please visit the conference website <http://www.chaos2009.net>.

3-5 **Conference on Character Theory of Finite Groups in honor of Martin Isaacs**, Universitat de Valencia, Spain. (Sept. 2008, p. 1031)

3-15 **Interactions Between Hyperbolic Geometry, Quantum Topology and Number Theory Workshop**, Columbia University, New York, New York. (Oct. 2008, p. 1134)

* 8-11 **MAMERN09: 3rd International Conference on Approximation Methods and Numerical Modeling in Environment and Natural Resources**, University of Pau, Pau, France.

Description: The International Conference MAMERN, organized by the University of Pau & CNRS (France), in collaboration with the universities of Granada (Spain) and Mohammed I University (Morocco) is intended to take place every two years. The Third conference will be held in Pau, France, and focus on the following topics: Approximation and modeling applied to environment sciences and natural resources; New applications and developments in approximation methods; Mathematics and computation in geosciences; Modeling of ecosystems; Oceanographic and coastal engineering; Numerical modeling of flow and transport in porous media; Mathematical analysis of models in porous media; Multi-scale modeling of flow and transport in porous media.

Contact: mamern@univ-pau.fr.

8-12 **Computational Methods and Function Theory 2009**, Bilkent University, Ankara, Turkey. (Jun./Jul. 2008, p. 742)

8-13 **Workshop on Disordered Systems: Spin Glasses**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jan. 2008, p. 78)

* 8-19 **Geometry and Arithmetic around Galois Theory**, Galatasaray University, Istanbul, Turkey.

Description: This is a research level school on algebraic covers and their moduli spaces (Hurwitz spaces) in relation with inverse Galois theory, descent theory, constructions of covers, deformation methods and geometric Galois theory. There will be lectures on construction of Hurwitz spaces, counting points of a Hurwitz space, diophantine aspects of modular towers, modular towers and torsion on abelian varieties, fundamental groups and Galois action.

Information: <http://math.gsu.edu.tr/GAGT/index.html>; email: celalcem@gmail.com.

* 11-13 **Representation Theory**, Institut de Recherche Mathématique Avancée, Université de Strasbourg, 7 rue René Descartes, Strasbourg, France.

Description: The meeting is Number 83 in the series "Encounter Between Mathematicians and Theoretical Physicists". The focus is on representation theory. There will be survey lectures and specialized talks.

Invited speakers: C. Bachas (ENS Paris), V. Fock (Strasbourg and Aarhus), K. Gawedzki (ENS Lyon), T. Kobayashi (Tokyo), B. Kroetz, (MPI, Bonn), J.-P. Labesse (Aix-Marseille II), E. Opdam (Amsterdam), V. Ovsienko (Lyon), V. Schomerus (Hamburg), J. Teschner (Hamburg), V. Turaev (Bloomington).

Organization and information: A. Papadopoulos and S. Souaifi (Strasbourg); email: papadop@math.u-strasbg.fr; souaifi@math.u-strasbg.fr; <http://www-irma.u-strasbg.fr/article717.html>;

* 14-20 **47th International Symposium on Functional Equations**, Gargnano, Italy.

Topics: Functional equations and inequalities, mean values, functional equations on algebraic structures, Hyers-Ulam stability, regularity properties of solutions, conditional functional equations, functional-differential equations, iteration theory; applications of the above, in particular to the natural, social, and behavioral sciences.

Local Organizer: Gian Luigi Forti, Dipt. di Matematica, Via C. Saldini 50, Univ. d. Studi I-20133 Milano; email: GianLuigi.Forti@mat.unimi.it.

Scientific Committee: J. Aczél (Honorary Chair; Waterloo, ON, Canada), W. Benz (Honorary Member, Hamburg, Germany), Z. Daroczy (Honorary Member, Debrecen, Hungary), R. Ger (Chair; Katowice, Poland), Zs. Pales (Debrecen, Hungary), J. Rätz (Bern, Switzerland), L. Reich (Graz, Austria), and A. Sklar (Chicago, IL, USA).

Information: Participation at these annual meetings is by invitation only. Those wishing to be invited to this or one of the following meetings should send details of their interest and, preferably, publications (paper copies) and/or manuscripts with their postal and email address to: R. Ger, Institute of Mathematics, Silesian University, Bankowa 14, PL-40-007 Katowice, Poland; romanger@us.edu.pl, before December 15, 2008.

14-27 **ESI workshop on large cardinals and descriptive set theory**, Esi, Vienna, Austria. (Oct. 2008, p. 1134)

15-18 **The 5th International Conference "Dynamical Systems and Applications"**, "Ovidius" University of Constantza, Constantza, Romania. (Nov. 2008, p. 1319)

* 15-18 **SIAM Conference on Mathematical & Computational Issues in the Geosciences**, Leipziger Kubus Conference Center, Helmholtz - Centre for Environmental Research - UFZ, Leipzig, Germany.

Invited Speakers: Martin Blunt, Imperial College London; Chris Farmer, Schlumberger and University of Oxford; Rupert Klein, Potsdam Institute for Climate Impact Research and Free University of Berlin; Rosemary Knight, Stanford University, CA; Peter Lemke, University of Bremen, Germany; Barbara Romanowicz, University of California, Berkeley; Joannes J. Westerink, University of Notre Dame, IN.

Information and Deadlines: The Call for Papers for this conference is now available. Please visit <http://www.siam.org/meetings/g09/index.php>. ion. November 14, 2008: Minisymposium proposals. December 15, 2008: Abstracts for contributed and minisymposium speakers. For additional information, contact SIAM Conference Department at meetings@siam.org.

15-19 **Conference on Harmonic Analysis, Geometric Measure Theory and Quasiconformal Mappings**, Barcelona, Spain. (Nov. 2008, p. 1319)

15-19 **Waves 2009: The 9th International Conference on Mathematical and Numerical Aspects of Waves Propagation**, Pau, France. (Jun./Jul. 2008, p. 742)

18-19 **2nd IMA International Conference on Mathematics in Sport**, University of Groningen, The Netherlands. (Oct. 2008, p. 1134)

21-27 **Eighth International Conference Symmetry in Nonlinear Mathematical Physics**, Institute of Mathematics, National Academy of Sciences of Ukraine, Kyiv (Kiev), Ukraine. (Nov. 2008, p. 1319)

22-26 (NEW DATE) **5th Asian Mathematical Conference (AMC 2009)**, Penang /Kulalumpur, Malaysia. (Jun./Jul. 2008, p. 742)

22-26 **The 10th European Congress of Stereology and Image Analysis**, University of Milan, 20133 Milan, Italy. (Oct. 2008, p. 1135)

28-July 18 **IAS/Park City Mathematics Institute (PCMI) 2009 Summer Session: Arithmetic of L-functions**, Park City, Utah. (Sept. 2008, p. 1032)

* 29-July 1 **1st Rapid Modelling Conference**, Neuchâtel, Switzerland.

Description: The objective of this conference is to provide an international, multidisciplinary platform for researchers and practitioners to create and exchange knowledge on increasing competitiveness through speed. Lead time reduction (through techniques ranging from quick response manufacturing to lean production) is achieved through a mutually reinforcing combination of changed mindset and analytical tools.

Information: <http://www.unine.ch/rmc09>.

July 2009

1-3 **International Conference of Applied and Engineering Mathematics 2009**, Imperial College London, London, United Kingdom. (Oct. 2008, p. 1135)

* 5-10 **22nd British Combinatorial Conference**, University of St. Andrews, Fife, Scotland.

Invited Speakers: Arrigo Bonisoli (Universita di Modena e Reggio Emilia); Peter J. Cameron (Queen Mary, University of London); Willem H. Haemers (Tilburg University); Gholamreza B. Khosrovshahi (IPM); Alexandr V. Kostochka (University of Illinois at Urbana-Champaign); Daniela Kühn (University of Birmingham); Marc Noy (Universitat Politècnica de Catalunya); Oliver Riordan (University of Oxford); Gordon Royle (University of Western Australia).

Programme: The speakers above will each give a one-hour talk. These talks are intended to be accessible to postgraduate students, postdoctoral fellows, and researchers in all areas of combinatorics. In addition participants are invited to give a talk of twenty minutes on any combinatorial topic. A problem session will be held on the last day.

Information: <http://bcc2009.mcs.st-and.ac.uk>; email: colva@mcs.st-and.ac.uk.

* 6-8 **SIAM Conference on Control and Its Applications**, Sheraton Denver Hotel, Denver, Colorado.

Description: This conference is a continuation of a series of meetings started in 1989 in San Francisco. The field of control theory is central to a wide range of aeronautic, aerospace, industrial, automotive and advanced technological systems and increasingly recognized as fundamental for emerging fields ranging from nanotechnology to cell regulation. In addition to its ubiquity for process regulation in the physical sciences, control concepts now pervade the biological, computer, and social sciences.

Topics: This conference will showcase a wide range of topics in control and systems theory. The topics and applications include real-time optimization and data assimilation, cellular and biological regulation, control techniques for financial mathematics, cooperative control for unmanned autonomous vehicles, biomedical control, risk sensitive control and filtering, control of smart systems, flow control and quantum control.

Information: <http://www.siam.org/meetings/ct09/>; email: wilden@siam.org.

6-10 **26th Journées Arithmétiques**, Université de Saint-Etienne, Saint-Etienne, France. (Jun./Jul. 2008, p. 742)

6-10 **First PRIMA Pacific Rim Congress of Mathematicians**, University of New South Wales, Sydney, Australia. (Jun./Jul. 2008, p. 742)

6-10 **Journées de Géométrie Arithmétique de Rennes**, Institut de Recherche Mathématique de Rennes, Université de Rennes 1, Rennes, France. (Sept. 2008, p. 1032)

* 6-11 **International Conference on Semigroups and Related Topics**, Faculty of Sciences of the University of Porto, Porto, Portugal. (Nov. 2008, p. 1319)

Description: This conference aims to present to the participants the state of the art in algebraic theory of semigroups and to approach related fields with fruitful connections.

Information: <http://www.fc.up.pt/ICSrt2009/>; email: mde1-gado@fc.up.pt.

13-17 **9th International Conference on Finite Fields and Applications**, University College Dublin, Dublin, Ireland. (Jun./Jul. 2008, p. 742)

14-24 **The 19th International Conference on Banach algebras**, Bielefeld, Poland. (Oct. 2008, p. 1135)

14-January 15 **Call for Papers: 14th International Conference on Gambling and Risk Taking**, University of Nevada, Reno, at Harrah's Lake Tahoe, Nevada. (Oct. 2008, p. 1135)

* 20-24 **21st International Conference on Formal Power Series & Algebraic Combinatorics**, Research Institute for Symbolic Computation, Hagenberg, Austria.

Description: Topics include all aspects of combinatorics and their relations with other parts of mathematics, physics, computer science, and biology.

Conference Contents: Invited lectures, contributed presentations, poster session, and software demonstrations. As usual, there will be no parallel sessions. The official languages of the conference are English and French.

20-24 **AIP (Applied Inverse Problems)**, Vienna, Austria. (Nov. 2008, p. 1319)

20-24 **Equadiff 12**, Brno, Czech Republic. (Aug. 2008, p. 872)

20-December 18 **Non-Abelian Fundamental Groups in Arithmetic Geometry**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Aug. 2008, p. 872)

27-30 **The Society for Mathematical Biology Annual Meeting**, University of British Columbia, Vancouver, Canada. (Nov. 2008, p. 1319)

27-31 **33rd Conference on Stochastic Processes and their Applications**, Berlin, Germany. (May 2008, p. 636)

29-July 24 **The Cardiac Physiome Project**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Aug. 2008, p. 872)

August 2009

* 10-12 **Continuing Statistics Education Workshop**, Statistics Online Computational Resource (SOCR), University of California, Los Angeles, California.

Description: The 2009 SOCR aims to demonstrate the functionality, utilization and assessment of the current SOCR resources in probability and statistics curricula at different levels. The SOCR Motto "It's Online, Therefore it Exists!" clearly indicates that all of these tools, activities and materials are openly and anonymously available over the Internet to the entire community. This workshop will be of most value to AP teachers and college instructors of probability and statistics classes who have interests in exploring novel technology-enhanced approaches for improving statistics education. The workshop will provide an interactive forum for exchange of ideas and recommendations for strategies to integrate computers, modern pedagogical approaches, the Internet and new student assessment techniques.

Registration: Registration and participation is free and all participants will be provided with free room and board for the duration of the workshop. There is a limit of the participants we can admit, but the workshop will be web-streamed live.

Information: <http://www.SOCR.ucla.edu>.

* 10-12 **Workshop on Technology-Enhanced Probability and Statistics Education Using SOCR Resources**, Statistics Online Computational Resource (SOCR), University of California, Los Angeles, California.

Summary: The 2009 SOCR aims to demonstrate the functionality, utilization and assessment of the current SOCR resources in probability and statistics curricula at different levels. The SOCR Motto "It's Online, Therefore it Exists!" clearly indicates that all of these tools, activities and materials are openly and anonymously available over the Internet to the entire community. This workshop will be of most value to AP teachers and college instructors of probability and statistics classes who have interests in exploring novel technology-enhanced approaches for improving statistics education. The workshop will provide an interactive forum for exchange of ideas and recommendations for strategies to integrate computers, modern pedagogical approaches, the Internet and new student assessment techniques.

Registration: Registration and participation is free and all participants will be provided with free room and board for the duration of the workshop. There is a limit of the participants we can admit, but the workshop will be web-streamed live.

Information: http://wiki.stat.ucla.edu/socr/index.php/SOCR_Events_Aug2009; <http://www.SOCR.ucla.edu>; email: dinov@stat.ucla.edu.

12-December 18 **Dynamics of Discs and Planets**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England. (Aug. 2008, p. 872)

17 **Symplectic and Contact Geometry and Topology**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2008, p. 1033)

17-21 **Modular forms on noncongruence groups**, American Institute of Mathematics, Palo Alto, California. (Aug. 2008, p. 872)

17-December 18 **Tropical Geometry**, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2008, p. 1033)

24-28 **Relative trace formula and periods of automorphic forms**, American Institute of Mathematics, Palo Alto, California. (Sept. 2008, p. 1033)

September 2009

11-17 (NEW DATE) **Models in Developing Mathematics Education**, Dresden University of Applied Sciences, Dresden, Germany. (Apr. 2007, p. 498)

15-18 **Bogolyubov Kyiv Conference: "Modern Problems of Theoretical and Mathematical Physics"**, Bogolyubov Institute for Theoretical Physics, Kyiv, Ukraine. (Nov. 2008, p. 1319)

October 2009

* 5-8 **2009 SIAM/ACM Joint Conference on Geometric Design and Solid & Physical Modeling**, Hilton San Francisco Financial District, San Francisco, California.

Description: The 2009 Joint Conference on Geometric and Solid & Physical Modeling seeks high quality, original research contributions that strive to advance all aspects of geometric and physical modeling, and their application in design, analysis and manufacturing, as well as in biomedical, geophysical, digital entertainment, and other areas. A shared objective of both the SIAM GD and ACM SPM communities is a desire to highlight work of the highest quality on the problems of greatest relevance to industry and science.

Information: <http://www.siam.org/meetings/gdspm09/>.

* 5-9 **Combinatorics: Probabilistic Techniques and Applications**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: The probabilistic approach has been successful in combinatorics, graph theory, combinatorial number theory, optimization and theoretical computer science. This workshop will focus on several main research directions of probabilistic combinatorics, including the application of probability to solve combinatorial problems, the study of random combinatorial objects and the investigation of randomized algorithms.

Organizing Committee: Alan Frieze, Nathan (Nati) Linial, Angelika Steger, Benjamin Sudakov, Prasad Tetali.

Application/Registration: An application and registration form is available at: <http://www.ipam.ucla.edu/programs/cmaws1>. Applications received by August 24, 2009, will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also register and attend without IPAM funding.

Information: <http://www.ipam.ucla.edu/programs/cmaws1/>; email: sbeggs@ipam.ucla.edu.

* 12-16 **Algebra, Geometry, and Mathematical Physics**, The Bedlewo Mathematical Research and Conference Center, Bedlewo, Poland.

Description: Contemporary hot trends in algebra, geometry, and mathematical physics.

Organizing Committee: V. Abramov, J. Grabowski, E. Paal (Vice-Chair), A. Stolin, A. Tralle (Chair), P. Urbanski.

Information: <http://www.agmf.astralgo.eu/bd109/>.

* 14-16 **The 9th Conference Shell Structures Theory and Applications**, Neptun Hotel, Hel Peninsula, Baltic Sea, Jurata, Poland.

Description: The aim of the SSTA 2009 Conference is to bring together scientists, designers, engineers and other specialists of shell structures in order to discuss important results and new ideas in this broad field of activity. The previous one - 8th SSTA 2005 - was attended by 109 participants from 16 countries.

Conference Topics: The theory and analysis of shells, numerical analysis of shell structures and elements, design and maintenance of shell structures, special surface-related mechanical problems. The conference program will include general lectures and contributed oral presentations. The main language of the conference will be English.

Publications and Deadline: All accepted papers (full-length article in English) will appear in the hard-cover volume of Proceedings published by CRC Press/Balkema, Taylor & Francis Group. Deadline for submission of the full paper is February 28, 2009.

16-18 **AMS Central Section Meeting**, Baylor University, Waco, Texas. (Aug. 2008, p. 872)

* 19-23 **Combinatorics: Combinatorial Geometry**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Organizing Committee: Alexander Barvinok, Gil Kalai, Janos Pach, Jozsef Solymosi, Emo Welzl.

Overview: Combinatorial geometry deals with the structure and complexity of discrete geometric objects and is closely related to computational geometry, which deals with the design of efficient computer algorithms for manipulation of these objects. The focus of this workshop will be on the study of discrete geometric objects, their combinatorial structure, stressing the connections between discrete geometry and combinatorics, number theory, analysis and computer science.

Application/Registration: An application and registration form is available at: <http://www.ipam.ucla.edu/programs/cmaws2>. Applications received by Sept. 7, 2009, will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also register and attend without IPAM funding.

Information: <http://www.ipam.ucla.edu/programs/cmaws2/>; email: sbeggs@ipam.ucla.edu.

* 19-23 **Higher Reidemeister Torsion**, American Institute of Mathematics, Palo Alto, California.

Description: This workshop, sponsored by AIM and the NSF, will focus on connections between different constructions for invariants of fiber bundles.

Information: <http://aimath.org/ARCC/workshops/reidemeister.html>; email: ebasor@aimath.org.

24-25 **AMS Eastern Section Meeting**, Pennsylvania State University, University Park, Pennsylvania. (Aug. 2008, p. 872)

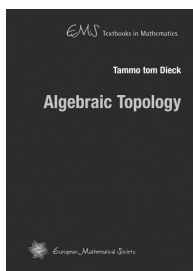
30-November 1 **AMS Southeastern Section Meeting**, Florida Atlantic University, Boca Raton, Florida. (Aug. 2008, p. 872)

November 2009

7-8 **AMS Western Section Meeting**, University of California, Riverside, California. (Aug. 2008, p. 872)



New books published by the
European Mathematical Society

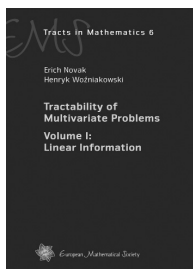


EMS Textbooks in Mathematics

Tammo tom Dieck
Algebraic Topology

ISBN 978-3-03719-048-7. September 2008
578 pages. Hardcover. 16.5 x 23.5 cm
78.00 US\$

This textbook on algebraic topology covers the material for introductory courses (homotopy and homology), background material (manifolds, cell complexes, fibre bundles), and more advanced applications of the basic tools and concepts (duality, characteristic classes, homotopy groups of spheres, bordism). A special feature is the rich supply of nearly 500 exercises and problems at the end of each section. Prerequisites are basic point set topology (as recalled in the first chapter), some acquaintance with basic algebra (modules, tensor product), and some terminology from category theory. The aim of the book is to introduce advanced undergraduate and graduate (masters) students to the basic tools, concepts and results of algebraic topology. Sufficient background material from geometry and algebra is included.

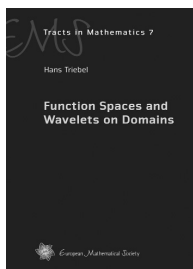


EMS Tracts in Mathematics Vol. 6

Erich Novak, Henryk Woźniakowski
Tractability of Multivariate Problems
Volume I: Linear Information

ISBN 978-3-03719-026-5. September 2008
395 pages. Hardcover. 17.0 x 24.0 cm
98.00 US\$

This is the first of a three-volume set comprising a comprehensive study of the tractability of multivariate problems. It is of interest for researchers working in computational mathematics, especially in approximation of high-dimensional problems, but may be also suitable for graduate courses and seminars.



EMS Tracts in Mathematics Vol. 7

Hans Triebel
Function Spaces and Wavelets on Domains

ISBN 978-3-03719-019-7. September 2008
265 pages. Hardcover. 17.0 x 24.0 cm
78.00 US\$

The book is addressed to two types of readers: researchers in the theory of function spaces who are interested in wavelets as new effective building blocks for functions, and scientists who wish to use wavelet bases in classical function spaces for various applications.

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Mathematics Calendar

* 16–20 **Combinatorics: Analytical Methods in Combinatorics, Additive Number Theory and Computer Science**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Overview: This workshop will focus on the interplay between combinatorics, discrete probability, additive number theory and computer science with emphasis on a wide spectrum of analytical tools that are used there. One of the workshop's aims is to foster interaction between researchers in these areas, discuss recent progress and communicate new results and ideas. We would also like to utilize this forum to make the state-of-the-art analytical techniques accessible to a broader audience.

Organizing Committee: Irit Dinur, Ben Green, Gil Kalai, Alex Samorodnitsky, Terence Tao, Van Vu.

Application/Registration: An application and registration form is available at: <http://www.ipam.ucla.edu/programs/cmaws4>. Applications received by Oct. 5, 2009, will receive fullest consideration. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. You may also register and attend without IPAM funding.

Information: <http://www.ipam.ucla.edu/programs/cmaws4/>; email: sbeggs@ipam.ucla.edu.

December 2009

* 16–18 **The 4th Indian International Conference on Artificial Intelligence: (IIAI-09)**, Tumkur (near Bangalore), India.

Description: The conference consists of paper presentations, special workshops, sessions, invited talks and local tours, etc. and it is one of the biggest AI events in the world. We invite draft paper submissions.

Information: For details visit: <http://www.iiconference.org>.