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# 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/>.

## June 2009

1–3 **Second Global Conference on Power Control and Optimization (PCO-2009)**, Bali, Indonesia. (Jan. 2009, p. 71)

1–5 **2nd Chaotic Modeling and Simulation International Conference (CHAOS2009)**, MAICh Conference Center, Chania, Crete, Greece. (Dec. 2008, p. 1449)

\* 1–5 **Affine Algebraic Geometry: A Conference in Honour of Peter Russell**, Centre de Recherches Mathématiques, Université de Montréal, Canada.

**Description:** This five-day conference will celebrate the contributions of Peter Russell to the area of affine algebraic geometry, as well as to problems in characteristic  $p$  geometry. It assembles participants working in such topics as algebraic group actions on affine spaces, the cancellation problem, embeddings of affine spaces and the theory of open surfaces. It will provide perspectives on the latest work in the area as well as directions for future work.

**Information:** [http://www.crm.umontreal.ca/Russellfest09/index\\_e.php](http://www.crm.umontreal.ca/Russellfest09/index_e.php).

1–5 **Fifth Summer School in Analysis and Applied Mathematics**, Department of Mathematics, Sapienza, Università di Roma, Rome, Italy. (Feb. 2009, p. 309)

1–5 **Geometry & Topology at Muenster 2009**, University of Muenster, Muenster, Germany. (Jan. 2009, p. 71)

\* 1–5 **Hypercyclicity and Chaos for Linear Operators and Semigroups**, Universidad Politecnica de Valencia, Valencia, Spain.

**Description:** Over the last two decades, the study of hypercyclicity and linear chaos has developed into a very active research area. In

the past few years several long-standing problems have been solved, and a number of landmark results have been obtained. Our intention is to combine plenary and short talks about recent work and open problems in this highly active area. Contributions at the frontier of hypercyclicity are encouraged, especially semigroups of linear operators and their applications to PDEs.

**Scientific Committee:** R. Aron, J. Bès, K. Grosse-Erdmann, A. Peris.

**Information:** <http://www.hypercyclic.upv.es/>.

1–5 **i-MATH School on Derived Algebraic Geometry**, University Institute for Fundamental Physics and Mathematics (IUFFyM), University of Salamanca, Spain. (Apr. 2009, p. 521)

1–28 **Statistical Genomics**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Jan. 2009, p. 71)

1–October 31 **i-MATH Trimester on Derived Algebraic Geometry**, University Institute for Fundamental Physics and Mathematics (IUFFyM), University of Salamanca, Spain. (Apr. 2009, p. 521)

2–5 **Holomorphically symplectic varieties and moduli spaces**, Laboratoire Paul Painlevé at the University of Lille 1, Lille, France. (May 2009, p. 654)

2–6 **The 29th Great Planes Operator Theory Symposium (GPOTS 2009)**, Department of Mathematics, University of Colorado at Boulder, Colorado. (May 2009, p. 654)

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)

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**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](mailto:notices@ams.org) or [mathcal@ams.org](mailto: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/>.

- 4–6 **Lehigh University Geometry and Topology Conference**, Lehigh University, Bethlehem, Pennsylvania. (May 2009, p. 654)
- 7–12 **35th International Conference: Applications of Mathematics in Engineering and Economics (AMEE'09)**, The Black Sea resort of Sozopol, Bulgaria. (May 2009, p. 654)
- 8–11 **25th Nordic and 1st British-Nordic Congress of Mathematicians**, University of Oslo, Oslo, Norway. (Jan. 2009, p. 71)
- 8–11 **Analysis, Inequalities and Homogenization Theory (AIHT 2009)**, Lulea University of Technology, Lulea, Sweden. (May 2009, p. 654)
- 8–11 **MAMERN09: 3rd International Conference on Approximation Methods and Numerical Modeling in Environment and Natural Resources**, University of Pau, Pau, France. (Dec. 2008, p. 1449)
- 8–11 **The 2nd International Conference on Mathematical Modelling and Computation and The 5th East Asia SIAM Conference**, Universiti Brunei Darussalam, Bandar Seri Begawan, Brunei. (Feb. 2009, p. 309)
- 8–12 **Computational Methods and Function Theory 2009**, Bilkent University, Ankara, Turkey. (Jun./Jul. 2008, p. 742)
- 8–12 **Geometrie Algebrique en Liberte**, Lorents Center, Leiden, Netherlands. (Mar. 2009, p. 413)
- 8–12 **Recursion structures in topological string theory and enumerative geometry**, American Institute of Mathematics, Palo Alto, California. (Apr. 2009, p. 521)
- \* 8–12 **The U.S.-Asian Workshop on Random Dynamical Systems**, S.S. Chern Institute of Mathematics, Nankai University, Tianjin, China. **Information:** <http://www.iit.edu/~duan/Nankai2009.htm>
- 8–13 **Disordered Systems: Spin Glasses**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, 5th floor, Montréal, Québec, H3T 1J4, Canada. (Apr. 2009, p. 521)
- 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. (Dec. 2008, p. 1449)
- 8–19 **Recent Developments in Dynamic Equations on Time Scales**, University of Wyoming, Laramie, Wyoming. (Jan. 2009, p. 71)
- 10–12 (NEW DATE) **Sixth Advanced Course in Operator Theory and Complex Analysis**, Seville, Spain. (May 2009, p. 654)
- 11–13 **Representation Theory**, Institut de Recherche Mathématique Avancée, Université de Strasbourg, 7 rue René Descartes, Strasbourg, France. (Dec. 2008, p. 1449)
- 13–17 **Symposium on Biomathematics and Ecology Research and Education**, Izmir University of Economics, Izmir, Turkey. (Mar. 2009, p. 413)
- 14–18 **QTRF5 - Quantum Theory: Reconsideration of Foundations-5**, Vaxjo University, Vaxjo, Sweden. (Apr. 2009, p. 521)
- \* 14–19 **2009 USENIX Annual Technical Conference (USENIX '09)**, Town & Country Resort and Convention Center, 500 Hotel Circle, North San Diego, California. **Description:** USENIX Annual Tech has always been the place to present groundbreaking research and cutting-edge practices in a wide variety of technologies and environments. USENIX '09 will be no exception. USENIX '09 will feature an extensive Training Program, covering crucial topics and led by highly respected instructors, as well as Technical Sessions, including the Refereed Papers Track, Invited Talks, and a Poster Session. Join the community of programmers, developers, and systems professionals in sharing solutions and fresh ideas. **Information:** <http://www.usenix.org/events/usenix09/>.
- 14–20 **47th International Symposium on Functional Equations**, Gargnano, Italy. (Dec. 2008, p. 1449)
- 14–20 **The Interplay of Algebra and Geometry**, Cortona, Italy. (Apr. 2009, p. 521)
- 14–27 **ESI workshop on large cardinals and descriptive set theory**, Esi, Vienna, Austria. (Oct. 2008, p. 1134)
- \* 15–16 **Colloquia on the Occasion of F. L. Bauer 85 Years - F. L. Bauer-Prize 2009, 50 Years Numerische Mathematik**, Bayerische Akademie der Wissenschaften, Plenarsaal, Munich, Germany. **Location:** Monday location: Munich. Tuesday location: Leibniz Supercomputing Centre, Lecture Hall, Boltzmannstrasse 1, 85748 Garching. **Information:** [http://www5.in.tum.de/Bauer85\\_NumerischeMathematik50/index.html](http://www5.in.tum.de/Bauer85_NumerischeMathematik50/index.html).
- 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. (Dec. 2008, p. 1449)
- 15–18 **Workshop on Electromagnetic Inverse Problems**, University of Manchester, Manchester, United Kingdom. (Apr. 2009, p. 521)
- 15–19 **Conference on Harmonic Analysis, Geometric Measure Theory and Quasiconformal Mappings**, CRM: Centre de Recerca Matemàtica, Bellaterra, Spain. (May 2009, p. 654)
- 15–19 **International Summer School on Operator Algebras and Applications**, Instituto Superior Tecnico, UTL, Lisbon, Portugal. (May 2009, p. 654)
- 15–19 **The analytic theory of automorphic forms (at the 65th birthday of Roelof Bruggeman)**, Woudschoten, The Netherlands. (Mar. 2009, p. 413)
- 15–19 **Waves 2009: The 9th International Conference on Mathematical and Numerical Aspects of Waves Propagation**, Pau, France. (Jun./Jul. 2008, p. 742)
- \* 15–19 **Workshop on Interacting Particle Systems in honor of Professor Tom Liggett's 65th Birthday**, Peking University, Beijing, China. **Invited Speakers:** M. Biskup (UCLA), M. Bramson (Minnesota), L. Chayes (UCLA), M-F Chen (Beijing Normal Univ.), R. Durrett (Cornell), P. A. Ferrari (IMPA), L. Fontes (Univ. Sao Paulo), G. R. Grimmett (Cambridge), S. Lalley (Univ. Chicago), C. Newman (Courant Inst), A. Puha (CSUSM), E. Saada (Univ. Rouen), J. Schweinsberg (UCSD), V. Sidoravicius (CWD), J. Steif (Chalmers), R. Sun (NU Singapore), M. E. Vares (CBPF), and N. Yoshida (Kyoto Univ.) **Information:** <http://www.math.pku.edu.cn/teachers/dayue/Homepage/IPS-Workshop.htm>.
- 15–20 **Strobl09 Conference on Time-Frequency**, Conference center "BIFEB" Strobl, Salzburg, Austria. (Apr. 2009, p. 522)
- \* 15–21 **VIII International Workshop Lie Theory and its Applications in Physics**, Varna, Bulgaria. **Description:** The meeting covers the whole field of Lie Theory in its widest sense together with its applications in many facets of physics. As interface between mathematics and physics the workshop serves as a meeting place for mathematicians and theoretical and mathematical physicists. The first three workshops were organized in Clausthal (1995,1997,1999), the 4th was part of the 2nd Symposium 'Quantum Theory and Symmetries' in Cracow (2001), the 5th was organized in Varna (2003); <http://theo.inrne.bas.bg/~dobrev/LT-5>; the 6th was part of the 4th Symposium 'Quantum Theory and Symmetries' in Varna (2005), but has its own volume of Proceedings; <http://theo.inrne.bas.bg/~dobrev/qts-4>; the 7th was organized in Varna (2007); <http://theo.inrne.bas.bg/~dobrev/LT-7.htm>. **Information:** <http://theo.inrne.bas.bg/~dobrev/LT-8.htm>.

15–26 **IMA New Directions Short Course: Applied Algebraic Topology**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2009, p. 522)

15–July 3 **IMA PI Summer Program for Graduate Students: The Mathematics of Inverse Problems**, University of Delaware, Newark, Delaware. (Apr. 2009, p. 522)

15–July 3 **Summer School and Conference in Geometric Representation Theory and Extended Affine Lie Algebras**, University of Ottawa, Ottawa, Ontario, Canada. (Feb. 2009, p. 309)

\* 16–19 **INDAM Workshop: Kähler and Sasakian Geometry in Rome**, Departments of Mathematics of Università di Roma La Sapienza and Università Roma Tre, Istituto Nazionale di Alta Matematica, Roma, Italy.

**Description:** This Workshop is a sequel of the intensive research periods Differential Geometry and Topology and Extremal Kähler Metrics and Kähler-Ricci Flow held in Pisa (Fall 2004 and Spring 2008) and of the Conference Geometry and Mathematical Physics held in Albuquerque (October 2008). Kähler and Sasakian Geometry and their interplay are a rapidly spreading research domain. Among the remarkable results of the last years are the existence of Einstein metrics on homotopy and homology spheres, the extension of Hamilton-Perelman's results on the Ricci flow and applications to mathematical models of string theory. This workshop was conceived in memory of Krzysztof Galicki (1958–2007). Kris was a visitor in Italy, with collaborations and students. The members of the organizing and the scientific committees have always felt Kris as a link between European and American Differential Geometry, and this Workshop will be an occasion to continue this link in the same spirit.

**Information:** email: [piccinni@mat.uniroma1.it](mailto:piccinni@mat.uniroma1.it); <http://www.mat.uniroma1.it/~ksgr>.

16–22 **Sixth International Workshop on Optimal Codes and Related Topics: OC 2009**, Varna, Bulgaria. (Feb. 2009, p. 309)

16–25 **International Workshop on Resonance Oscillations and Stability of Nonsmooth Systems**, Imperial College, London, United Kingdom. (May 2009, p. 654)

\* 17–21 **Modern Complex Analysis and Operator Theory and Applications, IV**, “Casa E. San José”, El Escorial (Madrid area), Spain.

**Description:** The fourth in a series of analysis meetings; the earlier ones were held in Dublin (2004), El Escorial (2005), and Chapel Hill (2007). The meeting will be held at the residence “Casa E. San José” in El Escorial, a historical town and a UNESCO World Heritage site located about 55 km (35 miles) away from downtown Madrid.

**Topics:** Spaces of analytic functions, geometric function theory, stochastic Loewner equation, complex dynamics, dynamics of operators, and Toeplitz and composition operators, and applications.

**Plenary speakers:** A. Aleman, J. Bonet, N. Makarov, D. Marshall, S. Treil. There are 37 invited speakers as well, and possibly also a poster session.

**Scientific Committee:** M. Contreras, D. Girela, F. Pérez-González, K. Seip, A. Vasil'ev, D. Vukotic.

**Information:** Room and board for the full duration of the meeting will be available at the conference venue at an affordable price; <http://www.uam.es/dragan.vukotic/conf-mecano09.html>.

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

18–20 **Models, Logics and Higher-Dimensional Categories: A tribute to the work of Mihaly Makkai**, Centre de recherches mathématiques, Université de Montréal, Montreal, QC Canada. (May 2009, p. 655)

19–22 **International Conference on Asymptotic Analysis and Infinite-dimensional Dynamical Systems**, City University of Hong Kong, Hong Kong, China. (Mar. 2009, p. 413)

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)

21–27 **2nd Mile High Conference on Nonassociative Mathematics**, University of Denver, Denver, Colorado. (Jan. 2009, p. 72)

22–25 **Geometric Flows in Mathematics and Theoretical Physics**, Center “Ennio De Giorgi”–Scuola Normale superiore, Pisa, (IT). (May 2009, p. 655)

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)

22–26 **Topology of Algebraic Varieties**, Jaca, Spain. (Apr. 2009, p. 522)

22–27 **3rd Nordic EWM Summer School for Ph.D. Students in Mathematics**, University of Turku, Turku, Finland. (Feb. 2009, p. 309)

22–27 **First Conference “Application of Mathematics in Technical and Natural Sciences” (AMITaNS'09)**, Resort of Sozopol, Bulgaria. (Feb. 2009, p. 309)

22–29 **The Poetry of Analysis (Conference in honour of Antonio Córdoba on the occasion of his 60th birthday)**, Colegio Mayor Juan Luis Vives, Madrid, Spain. (Apr. 2009, p. 523)

22–July 3 **Automorphic forms and L-functions, computational aspects**, CRM, Montreal, Canada. (Feb. 2009, p. 309)

22–July 4 **Renormalization, graph polynomials, Hopf algebras and relations with motives (summerschool) Algebraic geometry and algebra related to renormalization (workshop)**, CIMAT, Guanajuato, Mexico. (Apr. 2009, p. 523)

23–25 **Geometric Topology in 3 and 4 Dimensions**, University of California, Davis, California. (May 2009, p. 655)

23–26 **Sixth Annual International Symposium on Voronoi Diagrams in Science and Engineering (ISVD 2009)**, Technical University of Denmark, Kongens Lyngby, Denmark. (Apr. 2009, p. 522)

23–26 **The 9th Central European Conference on Cryptography (CECC09)**, Trebic, Czech Republic. (Mar. 2009, p. 414)

23–26 **The 33rd Summer Symposium in Real Analysis**, Southeastern Oklahoma State University, Durant, Oklahoma. (Jan. 2009, p. 72)

24–26 **International Workshop on Reliable Methods of Mathematical Modeling (RMMM 2009)**, Humboldt-Universität zu Berlin, Germany. (May 2009, p. 655)

24–26 **Sixth Advanced Course in Operator Theory and Complex Analysis**, Seville, Spain. (May 2009, p. 655)

25–27 **Current Geometry: The X Edition of the International Conference on Problems and Trends of Contemporary Geometry**, Hotel Serino, Via Terminio, 83028 Serino, Avellino, Italy. (Feb. 2009, p. 309)

28–July 2 **20th International Workshop on Combinatorial Algorithms**, Novy Hradec, Czech Republic. (Mar. 2009, p. 414)

28–July 3 **Affine Isometric Actions of Discrete Groups**, The Centro Stefano Franscini, Zurich, Switzerland. (Apr. 2009, p. 522)

28–July 4 **XXVIII Workshop on Geometric Methods in Physics**, Białowieża, Poland (Organized by the University of Białystok). (Apr. 2009, p. 522)

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

28–July 25 **UA VIGRE: Arizona Summer Program 2009**, University of Arizona, Tucson, Arizona. (Jan. 2009, p. 72)

29–July 1 **1st Rapid Modelling Conference**, Neuchâtel, Switzerland. (Dec. 2008, p. 1450)

29–July 3 **Workshop on Stochastic Analysis and Finance**, City University of Hong Kong, Kowloon, Hong Kong. (Apr. 2009, p. 522)

29–July 31 **Special Program: IMA Interdisciplinary Research Experience for Undergraduates**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2009, p. 522)

### July 2009

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

1–3 **International Conference on Design Theory and Applications**, National University of Ireland, Galway, Ireland. (Apr. 2009, p. 522)

\* 1–3 **Techniques and Problems in Graph Theory**, University of Bristol, Bristol, United Kingdom.

**Description:** A three-day workshop on techniques and problems in graph theory will be held from Wednesday 1st to Friday 3rd July at the University of Bristol. The aim of the workshop is to promote discussion and collaboration between researchers working in graph theory. Particular topics of interest include problems of an extremal nature, algebraic and combinatorial techniques, and the use of computational methods as a tool to gain insight into solving problems. This workshop is supported by the Heilbronn Institute for Mathematical Research.

**Information:** Please visit: <http://www.maths.bris.ac.uk/~marjw/workshop/> or contact: [tpgt-workshop@bristol.ac.uk](mailto:tpgt-workshop@bristol.ac.uk).

\* 1–4 **EMMDS 2009: European Workshop on Challenges in Modern Massive Data Sets**, Technical University of Denmark, Copenhagen, Denmark.

**Description:** The 2009 European Workshop on Challenges in Modern Massive Data Sets (EMMDS 2009) will address algorithmic, mathematical, and statistical challenges in modern statistical data analysis. The goals of EMMDS 2009 are to explore novel techniques for modeling and analyzing massive, high-dimensional, and nonlinearly-structured scientific and Internet data sets, and to bring together computer scientists, statisticians, mathematicians, and data analysis practitioners to promote cross-fertilization of ideas.

**Information:** <http://mmds.imm.dtu.dk>.

1–August 31 **Mathematical Theory and Numerical Methods for Computational Materials Simulation and Design**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Jan. 2009, p. 72)

3–7 **International Conference on Mathematical Control Theory and Mechanics**, Suzdal, Russia. (May 2009, p. 655)

5–10 **22nd British Combinatorial Conference**, University of St. Andrews, Fife, Scotland. (Dec. 2008, p. 1450)

5–10 **The Second European Set Theory Meeting: In honor of Ronald Jensen — an ESF-EMS-ERCOM research conference**, Mathematical Research and Conference Center, Bedlewo, Poland. (May 2009, p. 655)

5–18 **39th Probability Summer School**, Saint-Flour, France. (May 2009, p. 655)

6–8 **SIAM Conference on Control and Its Applications**, Sheraton Denver Hotel, Denver, Colorado. (Dec. 2008, p. 1450)

6–10 **2009 SIAM Annual Meeting (AN09)**, Sheraton Denver Hotel, Denver, Colorado. (Feb. 2009, p. 309)

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)

6–10 **Workshop on Equivariant Gromov-Witten theory and Symplectic Vortices**, CIRM, Luminy, France. (Mar. 2009, p. 414)

6–11 **Conference on Algebraic Topology CAT'09**, University of Warsaw, Warsaw, Poland. (Jan. 2009, p. 72)

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

6–11 **International Conference on Topology and its Applications, ICTA 2009**, Hacettepe University, Ankara, Turkey. (Mar. 2008, p. 415)

9–13 **The 3rd International Workshop on Matrix Analysis and Applications**, Hangzhou (Lin'An), China. (Mar. 2008, p. 415)

10–12 **Ninth International Conference on Mathematical Knowledge Management**, Grand Bend, Ontario, Canada. (Apr. 2009, p. 523)

\* 12–21 **International Seminar on Low-Dimensional Homotopy Theory and Combinatorial Group Theory**, Wallowa Lake Lodge in Joseph, Oregon.

**Description:** This meeting focuses on unsolved problems in low-dimensional homotopy theory and combinatorial group theory. These include Whitehead's Asphericity Conjecture, the Andrews-Curtis Conjecture, Wall's Domination Problem in dimension two, the relation gap problem, and the Eilenberg-Ganea Conjecture. This seminar is in succession to similar conferences held in Luttach (Italy), the Pacific Northwest, and Russia. The workshop format emphasizes detailed discussion of ideas in progress and collaboration of the participants, from advanced graduate students to early-career researchers to senior experts. The National Science Foundation has been asked for support. **Organizers:** F. Rudolf Beyl, [bey1f@pdx.edu](mailto:bey1f@pdx.edu), Portland State University, and Jens Harlander, [jensharlander@boisestate.edu](mailto:jensharlander@boisestate.edu), Boise State University.

**Information:** If interested, please contact the organizers by May 1, 2009. Available space is limited. Graduate students are requested to provide a reference familiar with their work.

13–16 **MULTICONF-09**, Orlando, Florida. (Jan. 2009, p. 72)

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

13–17 **Permutation Patterns 2009**, Dipartimento di Sistemi e Informatica, Università di Firenze, Firenze, Italy. (Jan. 2009, p. 72)

13–18 **7th International ISAAC Congress**, Imperial College, London, United Kingdom. (Jan. 2009, p. 72)

13–31 **IMA Summer Program: Nonlinear Conservation Laws and Applications**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2009, p. 523)

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

15–20 **Dobrushin International Conference**, Institute for the Information Transmission Problems, RAS, Moscow, Russia. (May 2009, p. 655)

16–31 **XII Diffiety School — on Geometry of Partial differential Equations and Secondary Calculus**, Santo Stefano del Sole, Avellino, Italy. (Feb. 2009, p. 309)

20–22 **Future Models for Energy and Water Management— AMSI/MASCOS/UNESCO Industry workshop and short course: Future Models for Energy and Water Management under a Regulated Environment**, Queensland University of Technology, Brisbane, Queensland 4000 Australia. (May 2009, p. 656)

\*20-24 **Research experiences for undergraduate faculty**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will introduce undergraduate faculty to research opportunities in graph theory, algebra, combinatorics, and linear algebra that will equip them with the tools to mentor students in undergraduate research in mathematics.

**Information:** <http://aimath.org/ARCC/workshops/reland2.html>.

20-24 **Vibration and Structural Acoustics Analysis: in conjunction with 3rd International Conference on Integrity, Reliability & Failure**, FEUP/INEGI, University of Porto, Porto, Portugal. (May 2009, p. 656)

20-24 **21st International Conference on Formal Power Series & Algebraic Combinatorics**, Research Institute for Symbolic Computation, Hagenberg, Austria. (Dec. 2008, p. 1450)

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

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

20-31 **2009 ESSLII Student Session**, Bordeaux, France. (Jan. 2009, p. 72)

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

\*21-24 **Workshop on Automorphic Representations, Geometry, and Arithmetic**, National Taiwan University, Taipei, Taiwan.

**Description:** Many celebrated advances in number theory in the last few decades involve mysterious yet systematic relations among subjects of entirely disparate natures. Knowledge of analytically defined objects, via approaches coming from geometry, have provided information not obtained otherwise about arithmetic. The main theme of this workshop is to understand some of the latest developments along these lines. We have invited many promising researchers over the world, mostly young ones, to share their results, ideas, and ways of thinking. We hope to create a pleasant atmosphere that would encourage questions and discussions inspiring future progresses in these subjects. Researchers and students interested in number theory or arithmetic geometry are especially welcome to attend.

**Information:** [http://www.tims.ntu.edu.tw/workshop/Automorphic\\_Representations/index.htm](http://www.tims.ntu.edu.tw/workshop/Automorphic_Representations/index.htm).

\*26-August 1 **Nearings 2009, 21st International Conference on Near-rings, Near-fields, and related topics**, Abbey Vorau, Styria, Austria.

**Description:** There will be invited one-hour survey lectures and short (20-minute) presentations of recent research results. The survey lectures will be partially devoted to areas outside (but in vicinity of) nearring theory.

**Invited speakers:** Gary Birkenmeier, Lafayette, USA; Nico Groenewald, Port Elizabeth, South Africa; Laszlo Marki, Budapest, Hungary; Stuart Scott, Auckland, New Zealand; Stefan Veldsman, Muscat, Oman; Robert Wisbauer, Dusseldorf, Germany.

**Information:** <http://nearrings09.asc.tuwien.ac.at/>.

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)

\*28-30 **Berlin hp-Workshop on Implementation Aspects**, Berlin, Germany.

**Description:** Berlin hp-Workshop on Implementation Aspects will focus on the implementation aspects of hp-FEM. Different application fields like elasticity and Maxwell equations will be discussed. The aim of the workshop is to bring together leading experts and young researchers.

**Information:** <http://www.math.hu-berlin.de/~bhp09>.

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

\*29-August 2 **Spectral Theory and Geometric Analysis (in honor of the 65th birthday of Mikhail Shubin)**, Northeastern University, Boston, Massachusetts.

**Description:** The conference will facilitate cooperation between researchers working in different areas of geometric analysis and spectral theory. It will last five days. During four days there will be five 50-minute talks. One day will have three 50-minute talks and a two-hour discussion session, where the leading mathematicians will share their vision of the future development of the field with graduate students and other junior participants. This schedule will leave ample time for discussion and problem sessions. A poster session will also be arranged.

**Information:** <http://www.math.neu.edu/~braverman/ShubinConference/shubinconference.html>.

31-August 2 **3rd Jairo Charris Seminar—Symmetries of differential and difference equations**, Universidad Sergio Arboleda, Bogotá, Colombia. (Feb. 2009, p. 310)

## August 2009

1-15 **Groups St Andrews 2009 in Bath**, University of Bath, Bath, United Kingdom. (May 2009, p. 656)

3-5 **SNC2009: The 3rd International Workshop on Symbolic-Numeric Computation**, Hotel "CO-OP INN Kyoto", Kyoto, Japan. (Mar. 2009, p. 415)

3-7 **Chern-Simons Gauge Theory: 20 years after**, Max Planck Institute for Mathematics, Bonn, Germany. (Apr. 2009, p. 523)

3-8 **7th Pan African Congress of Mathematicians (PACOM) 2009**, Yamoussoukro, Ivory Coast. (Apr. 2009, p. 523)

3-8 **XVI International Congress on Mathematical Physics (ICMP09)**, Clarion Congress Hotel Prague, Prague, Czech Republic. (Jan. 2009, p. 73)

3-14 **Pan-American Advanced Studies Institute (PASI): In Commutative Algebra and its connections to Geometry**, Olinda, Brazil. (Feb. 2009, p. 310)

4-10 **International Conference of Mathematical Sciences (ICMS Istanbul 2009)**, Maltepe University, Marmara Egitim Koyu, TR 34857 Maltepe, Istanbul, Turkey. (Apr. 2009, p. 523)

\*5-7 **19th Capricornio Mathematical Congress (COMCA 2009)**, Universidad Catolica del Norte, Antofagasta, Chile.

**Description:** The congress will provide an opportunity for the presentation and exchange of the latest research by those mathematicians interested in topics such as matrix theory, graph theory, control theory, algebra, geometry, industrial statistics, physical mathematics, applied mathematics, dynamical systems, and others. The congress is organized in short courses, talks, special invited sessions, and paper presentations. See website for list of confirmed speakers. Authors are kindly invited to submit abstracts before June 30, 2009. See website for submission information.

**Information:** <http://www.comca2009.ucn.cl>.

\*5-14 **Mathematical Modeling in Industry XIII - A Workshop for Graduate Students**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota.

**Description:** The IMA is holding a 10-day workshop on Mathematical Modeling in Industry. The workshop is designed to provide graduate students and qualified advanced undergraduates with first hand experience in industrial research. Students will work in teams of up to 6 students under the guidance of a mentor from industry. The mentor will help guide the students in the modeling process, analysis, and computational work associated with a real-world industrial problem. A progress report from each team will be scheduled during the period.

In addition, each team will be expected to make an oral final presentation and submit a written report at the end of the 10-day period.

**Information:** See <http://www.ima.umn.edu/2008-2009/MM8.5-14.09/>.

9-14 **Model Theory: ESF Mathematics Conference in Partnership with EMS and ERCOM**, Mathematical Research and Conference Center, Bedlewo, Poland. (Apr. 2009, p. 523)

9-15 **Reconnect Conference 2009: Reconnecting Teaching Faculty to the Mathematical Sciences Enterprise and Exposing Researchers in Government and Industry to Relevant Current Research, Visual Analytics and its Applications.**, DyDAn Center, Rutgers University, Piscataway, New Jersey. (May 2008, p. 656)

9-22 **Summer School: Structures in Lie Representation Theory, Crystals, Derived Functors, Harish-Chandra Modules, Invariants, Quivers**, Jacobs University, Bremen, Germany. (Apr. 2009, p. 523)

10-12 **Continuing Statistics Education Workshop**, Statistics Online Computational Resource (SOCR), University of California, Los Angeles, California. (Dec. 2008, p. 1450)

10-12 **Workshop on Technology-Enhanced Probability and Statistics Education Using SOCR Resources**, Statistics Online Computational Resource (SOCR), University of California, Los Angeles, California. (Dec. 2008, p. 1451)

10-14 **Nonlinear problems for p-Laplace and Laplace**, Linköping, Sweden. (May 2008, p. 656)

10-14 **Topological complexity of random sets**, American Institute of Mathematics, Palo Alto, California. (Jan. 2009, p. 73)

\* 10-20 **International Conference and Young Scientists School "Theory and Computational Methods for Inverse and Ill-posed Problems"**, Novosibirsk, Russia.

**Description:** Scientific program covers: Theory of inverse and ill-posed problems and regularization methods; Computational methods for solution of inverse problems in acoustics, electrodynamics, tomography, electrical survey, seismology, gravimetry, transport theory and other fields of science; New information technologies; Parallel computations; Visualization; Non-distractive control.

**Lectures/Talks:** Scientific program consists of lectures by members of the International Program Committee, talks by invited speakers and young scientists' presentations.

**Languages:** Russian and English.

**Information:** <http://math.nsc.ru/conference/onz09/engl.html>.

12-14 **18th USENIX Security Symposium**, Le Centre Sheraton Hotel Montreal, 1201 Boulevard Rene-Levesque, West Montreal, Quebec H3B 2L7 Canada. (Jan. 2009, p. 73)

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

15 **Workshop on Logical Aspects of Fault Tolerance (LAFT) co-located with LICS 2009**, University of California, Los Angeles, California. (Apr. 2009, p. 523)

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

17-19 **Measurement, Design, and Analysis Methods for Health Outcomes: Research Offered by the Harvard School of Public Health Center for Continuing Professional Education**, Boston, Massachusetts. (May 2009, p. 656)

17-21 **International Conference on Complex Analysis and Related Topics**, University of Turku, Turku, Finland. (Feb. 2009, p. 310)

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

\* 17-21 **PDE & Mathematical Finance III**, Royal Institute of Technology, Stockholm, Sweden.

**Description:** The goal of the workshop is to present the state of the art of applications of partial differential equations to finance. The event is a follow up on conferences in PDE and Finance held at KTH, Stockholm in 2005 and 2007.

**Information:** <http://www.math.kth.se/pdefinance/2009/>.

\* 17-22 **Brain Activity Modeling: From Fine to Coarse Scale**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada.

**Description:** The interpretation of brain functional signals (fMRI, EEG, MEG, Optical imaging) necessitates models of the neuronal bioelectrical activity and the metabolic processes. It is by now essential to confront models with the various type of data that allows one to explore more accurately temporal and spatial distribution of brain activity. These models consist, for instance, in coupled PDE's and other nonlinear equations that represent, at various scales of the processes, the electrophysiology in relationship with vascular and hemodynamic. The workshop will make the point on the current avenues in modeling with respect to the various modalities in non-invasive functional brain imaging.

**Information:** [http://www.crm.umontreal.ca/Brain09/index\\_e.php](http://www.crm.umontreal.ca/Brain09/index_e.php).

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

\* 22-26 **FM2009 Conference Functional Methods in Approximation Theory and Operator Theory III, dedicated to the memory of V. K. Dzyadyk (1919-1998)**, Camp Hart, Village Svityaz, Shatskyi Region, Volyn, Ukraine.

**Topics:** Algorithms for approximation, applications of approximation theory, applications of operator theory in mathematical physics, boundary problems and complex approximation, multivariate approximation, nonlinear approximation, operator-differential equations, polynomial and spline approximation, shape preserving approximation, spectral problems, wavelets, widths.

**Information:** <http://www.imath.kiev.ua/~funct/fm2009/>.

23-25 **Salford Data Mining Conference 2009 (SALFORD 2009)**, San Diego, California. (May 2009, p. 657)

24-26 **2009 Workshop for Young Researchers in Mathematical Biology (WYRMB)**, Mathematical Biosciences Institute, The Ohio State University, Columbus, Ohio. (May 2009, p. 656)

\* 24-26 **The 34th Sapporo Symposium on Partial Differential Equations**, Department of Mathematics, Hokkaido University, Sapporo, Japan.

**Description:** The Sapporo Symposium on Partial Differential Equations has been held annually to present the latest developments on PDE with a broad spectrum of interests not limited to the methods of a particular school.

**Financial Support:** Limited amount of financial support for local expenses is available to non-resident visitors who are interested in the meeting. Please make inquiry to [cri@math.sci.hokudai.ac.jp](mailto:cri@math.sci.hokudai.ac.jp) by April 30, 2009.

**Information:** [http://www.math.sci.hokudai.ac.jp/sympo/sapporo/program\\_en.html](http://www.math.sci.hokudai.ac.jp/sympo/sapporo/program_en.html).

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

24-28 **Mal'tsev Meeting**, Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia. (May 2009, p. 657)

\* 24-29 **Inverse Problem in Brain Imaging and Multimodal Fusion**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada.

**Description:** The interpretation of brain functional signals (fMRI, EEG, MEG, Optical imaging) necessitates models of the neuronal bioelectrical activity and the metabolic processes. It is by now essential to confront models with the various type of data that allows one to explore more accurately temporal and spatial distribution of brain activity. These models consist, for instance, in coupled PDE's and other non-linear equations that represent, at various scales of the processes, the electrophysiology in relationship with vascular and hemodynamic. The workshop will make the point on the current avenues in modeling with respect to the various modalities in non-invasive functional brain imaging.

**Information:** [http://www.crm.umontreal.ca/Inverse09/index\\_e.php](http://www.crm.umontreal.ca/Inverse09/index_e.php).

27-29 **Ukrainian Mathematical Congress 2009 (Dedicated to the Centennial of Nikolai N. Bogoliubov)**, Institute of Mathematics of NASU, Kiev (Kyiv), Ukraine. (Jan. 2009, p. 73)

30-31 **Oded Schramm Memorial Conference in Probability and Geometry**, Microsoft Research, Redmond, Washington. (May 2009, p. 657)

30-September 4 **Algebraic Groups and Invariant Theory**, Centro Stefano Franscini, Ascona, Switzerland. (Jan. 2009, p. 73)

31-September 4 **GF2009 International Conference on Generalized Functions**, University of Vienna, Vienna, Austria. (Apr. 2009, p. 523)

31-September 6 **International School on Geometry and Quantization**, Mathematics Research Unit, University of Luxembourg, Luxembourg. (Apr. 2009, p. 524)

## September 2009

2-4 **Workshop in nonlinear elliptic PDEs**, Université Libre de Bruxelles, Brussels, Belgium. (Feb. 2009, p. 310)

\* 2-6 **The 9th Balkan Conference on Operational Research (BALCOR 2009)**, Constanta, Romania.

**Description:** The University of Bucharest, Naval Academy Mircea cel Batran Constanta, The Romanian Academy, The Technical University of Civil Engineering Bucharest, are honored to invite everyone engaged in research, teaching, business, or public services related to Operational Research to attend. The general aim of the conference is to facilitate the exchange of scientific and technical information related to Operational Research and to promote international co-operation especially among the Balkan countries.

**Information:** <http://civile.utcb.ro/balcor/>.

\* 3-5 **Complex and Harmonic Analysis 2009**, Archanes, Crete, Greece.

**Description:** At the Department of Mathematics of the University of Crete we are organizing a small meeting in the broad areas of Complex and Harmonic Analysis. The meeting will take place in the village of Archanes, 15km southeast of the city of Iraklio. We are hoping that a similar meeting will be taking place every two years alternating in Greece and Spain.

**Invited Speakers:** Dimitris Betsakos, Univ. of Thessaloniki; Oscar Blasco, Univ. de Valencia; Joaquim Bruna, Univ. Autònoma de Barcelona; Daniel Girela, Univ. de Malaga; Antonios Melas, Univ. of Athens; Vassilis Nestoridis, Univ. of Athens; Artur Nicolau\*, Univ. Autònoma de Barcelona; Aristomenis Siskakis, Univ. of Thessaloniki; Dragan Vukotic, Univ. Autònoma de Madrid. \* Beyond the invited speakers there will be some shorter contributed talks. Financial support: there will be some support for junior participants.

**Information:** <http://fourier.math.uoc.gr/ch2009>.

3-5 **International Conference on Modern Mathematical Methods in Science and Technology (M3ST '09)**, Poros Image Hotel, Poros Island, Greece. (May 2009, p. 657)

3-6 **International Conference on Theory and Applications in Mathematics and Informatics**, "1 Decembrie 1918" University of Alba Iulia, Alba Iulia, Romania. (May 2009, p. 657)

4-9 **2nd Dolomites Workshop on Constructive Approximation and Applications (DWCAA09)**, Alba di Canazei, Trento, Italy. (Jan. 2009, p. 73)

\* 5-10 **9th Conference on Geometry and Applications**, Hotel Joliot Curie, resort St. Constantine and Helena, Varna, Bulgaria.

**Organizer:** The Geometrical Society Bojan Petkanchin in Bulgaria.

**Topics:** The following fields are included: Differential geometry, finite groups and inzident geometries, application of computer methods in geometry, algebra and analysis, school geometry.

**Information:** <http://www.fmi.uni-sofia.bg>.

7-8 **CETL-MSOR Conference 2009**, Open University, Milton Keynes, England. (Apr. 2009, p. 524)

\* 7-10 **A Harmonic Map Fest**, University of Cagliari, Italy.

**Description:** This conference is in honour of Prof. John C. Wood, on the occasion of his 60th birthday and 35 years of involvement in harmonic maps. While the scientific content will undoubtedly reflect J. C. Wood's predilection for harmonic maps and harmonic morphisms and be a good opportunity to review the state of the art, other topics in Differential Geometry will be most welcome.

**Main speakers:** P. Baird (Brest), F. Burstall (Bath), S. Dragomir (Potenza), F. Helein (Paris), D. Kotschick (Munich), E. Musso (Aquila), Y. Ohnita (Osaka), L. Ornea (Bucharest), F. Pedit (Tuebingen and Amherst), M. Rigoli (Milan) and H. Urakawa (Tohoku). There will also be some 30 minute talks.

**Information:** <http://www.matematik.lu.se/JCW-60/>.

7-11 **Third International Conference on Geometry and Quantization GEOQUANT**, Mathematics Research Unit, University of Luxembourg, Luxembourg. (Apr. 2009, p. 524)

\* 7-11 **XXIst Rolf Nevanlinna Colloquium**, Kyoto University, Kyoto, Japan.

**Information:** To join the mailing list for further information, please send an empty mail to: [join@nevanlinna.jp](mailto:join@nevanlinna.jp); Contact address: <http://www.nevanlinna.jp>.

7-12 **Advanced School on Homotopy Theory and Algebraic Geometry**, Mathematical Research Institute, University of Sevilla (IMUS), Sevilla, Spain. (May 2009, p. 657)

8-12 **IV International Conference on Mathematical Analysis in Andalusia**, University of Cadiz, Jerez de la Frontera, Spain. (May 2009, p. 657)

8-December 11 **Long Program: Combinatorics: Methods and Applications in Mathematics and Computer Science**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Jan. 2009, p. 73)

9-16 **Combinatorics: Methods and Applications in Mathematics and Computer Science, Tutorials**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Jan. 2009, p. 73)

10-12 **Quantum topology and Chern-Simons theory**, Institut de Recherche Mathématique Avancée, Université de Strasbourg, 7 rue René Descartes, Strasbourg, France. (Jan. 2009, p. 73)

11-13 **Algebra and Topology in Interaction**, University of California, Davis, California. (May 2009, p. 657)

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

\* 14-18 **2009 Workshop on Algebraic Geometry and Physics: Representations, Lie Theory and Physics**, Maresias Beach Hotel, Maresias, Brazil.

**Description:** The workshop will bring together mathematicians and physicists working on several aspects of Lie theory (Lie groups, Lie algebras, algebraic groups, representations) and their applications (including gauge theory, deformation theory, automorphic representations, partial differential equations, integrable systems, symmetries

in physics, among others). The programme will include minicourses by A. Kleshchev, D. E. Diaconescu, R. Donagi, and about 15 one-hour talks by invited speakers. It is possible to submit a proposal of a communication; please send a title and a short abstract. Inclusion into the programme will be decided by the scientific committee. If you are interested in participating, please write to: [jardim@ime.unicamp.br](mailto:jardim@ime.unicamp.br), [futorny@ime.usp.br](mailto:futorny@ime.usp.br) or [henrique@impa.br](mailto:henrique@impa.br) by April 30, 2009.  
**Information:** <http://people.sissa.it/~bruzzo/wagp09/index.htm>.

**14-18 IMA Workshop: Flowing Complex Fluids: Rheological Measurements and Constitutive Modeling**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2009, p. 524)

\* **14-19 Dictionary of Atoms: New Trends in Advanced Signal Processing in Functional Brain Imaging**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada.

**Description:** During the last decade, sparse representations of signals have been intensively studied in the domain of functional brain imaging and electrophysiology. This workshop will present various aspects of this “wavelet heritage” in this domain of signal processing, applied in fMRI and electrophysiological signals. Analysis of signals and inverse problems in sparse representations will be highly focussed during the week.

**Information:** [http://www.crm.umontreal.ca/Atoms09/index\\_e.php](http://www.crm.umontreal.ca/Atoms09/index_e.php).

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

**21-25 Convex algebraic geometry, optimization and applications**, American Institute of Mathematics, Palo Alto, California. (Apr. 2009, p. 524)

\* **24-26 Variational and Topological Methods in Nonlinear Analysis**, University of Texas at San Antonio (UTSA).

**Description:** International conference dedicated to the 60th birthday of Vieri Benci.

**Information:** <http://www.dm.uniba.it/nonlinear09/>.

**24-30 6th International Conference on Functional Analysis and Approximation Theory -FAAT 2009**, Acquafredda di Maratea, Italy. (Apr. 2009, p. 525)

**27-29 Symposium on Engineered & Natural Complex Systems**, Toronto, Ontario, Canada. (May 2009, p. 658)

## October 2009

**5-8 2009 SIAM/ACM Joint Conference on Geometric Design and Solid & Physical Modeling**, Hilton San Francisco Financial District, San Francisco, California. (Dec. 2008, p. 1451)

**5-9 Combinatorics: Probabilistic Techniques and Applications**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Dec. 2008, p. 1451)

**5-9 International Conference “Kolmogorov readings. General control problems and their applications (GCP-2009)”**, Tambov State University named after G.R. Derzhavin, Institute of Mathematics, Physics, and Computer sciences, Tambov, Russia. (May 2009, p. 658)

\* **5-9 Rational curves and  $A^1$ -homotopy theory**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to studying recent interactions between rational connectivity and the newly developing theory of  $A^1$ -algebraic topology.

**Information:** <http://aimath.org/ARCC/workshops/a1homotopy.html>.

**9-11 SIAM Conference on Mathematics for Industry: Challenges and Frontiers (MI09)**, Hilton San Francisco Financial District, San Francisco, California. (Feb. 2009, p. 310)

\* **9-11 Southeastern Lie Theory Workshop on Combinatorial Lie Theory and Applications**, North Carolina State University, Raleigh, North Carolina.

**Description:** The main focus of this workshop will be on combinatorial representation theory, both algebraic and geometric. Professor Masaki Kashiwara will give a series of three lectures at this workshop. This is the first of three annual workshops on Lie Theory to be held in the southeastern region of USA, funded by the National Science Foundation; organized by Kailash Misra (email: [misra@math.ncsu.edu](mailto:misra@math.ncsu.edu)), Daniel Nakano, and Brian Parshall. Partial support would be available to junior researchers and graduate students. Please see the conference web page for further details. Priority for funding will be given to applicants from minority and underrepresented groups.  
**Information:** <http://www.math.virginia.edu/lieworkshops/>.

**12-14 The 6th annual International New Exploratory Technologies Conference (NEXT 2009)**, Fudan University, Shanghai, China. (May 2009, p. 658)

**12-16 Algebra, Geometry, and Mathematical Physics**, The Bedlewo Mathematical Research and Conference Center, Bedlewo, Poland. (Dec. 2008, p. 1451)

**12-16 IMA Workshop: Flowing Complex Fluids: Fluid Mechanics-Interaction of Microstructure and Flow**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2009, p. 524)

**14-16 The 9th Conference Shell Structures Theory and Applications**, Neptun Hotel, Hel Peninsula, Baltic Sea, Jurata, Poland. (Dec. 2008, p. 1451)

**14-17 Integers Conference 2009**, University of West Georgia, Carrollton, Georgia. (Apr. 2009, p. 524)

\* **16-17 Twenty-Ninth Southeastern Atlantic Regional Conference on Differential Equations (SEARCDE)**, Mercer University, Macon, Georgia.

**Plenary Speakers:** Howard (Howie) Weiss (Georgia Institute of Technology), H.T. Banks (North Carolina State University), Irena Lasiecka (University of Virginia). In addition to the plenary speakers, there will be sessions of twenty-minute contributed talks. Pending funding from the National Science Foundation, travel support funds will be available for advanced graduate students and recent Ph.D. recipients (2004 or later). Women and minorities are especially encouraged to participate in this conference and to apply for support.

**Deadline:** For abstracts in contributed session is October 2, 2009.

**Information:** <http://www.mercer.edu/math/searcde/> for information on registration, lodging, submission of abstracts, and application for support.

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

**19-22 International Conference “Discrete Mathematics, Algebra, and their applications” (DIMA09)**, Belarus State University, Minsk, Belarus. (May 2009, p. 658)

**19-23 Combinatorics: Combinatorial Geometry**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Dec. 2008, p. 1451)

**19-23 Higher Reidemeister Torsion**, American Institute of Mathematics, Palo Alto, California. (Dec. 2008, p. 1451)

**20-22 International Conference in Modeling Health Advances 2009**, UC Berkeley, San Francisco Bay Area, California. (Mar. 2009, p. 416)

**21-23 The 4th International Conference on Research and Education in Mathematics 2009 (ICREM09)**, Kuala Lumpur, Malaysia. (Apr. 2009, p. 525)

22–24 **Partial Differential Equations and Applications International Workshop for the 60th birthday of Michel Pierre**, Club Med, Vittel, France. (Apr. 2009, p. 525)

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

\* 25–30 **Mathematical Methods in Emerging Modalities of Medical Imaging**, Banff International Research Station, Banff, Canada.

**Description:** The workshop will assemble researchers from mathematics, physics, engineering and medicine interested in developing and implementing mathematical methods of novel medical diagnostic imaging. Among the techniques to be discussed are, in particular, optical tomography, electron tomography, phase contrast CT, thermo/photoacoustic tomography, elastography, ultrasound modulated optical tomography, and acousto-electric tomography. These new modalities of imaging involve challenging problems on crossroads of mathematics, physics, and engineering. The goal is to formulate the mathematical problems that must be resolved to meet outstanding challenges of this young and fast developing area and to assess and facilitate the current progress in these directions.

**Information:** [http://www.birs.ca/birspages.php?task=displayevent&event\\_id=09w5017](http://www.birs.ca/birspages.php?task=displayevent&event_id=09w5017)

26–28 **SAGA 2009, Fifth Symposium on Stochastic Algorithms, Foundations and Applications**, Hokkaido University, Sapporo, Japan. (May 2009, p. 658)

26–30 **Implementing algebraic geometry algorithms**, American Institute of Mathematics, Palo Alto, California. (May 2009, p. 658)

26–31 **Autumn School: “Towards a p-adic Langlands Correspondence”**, Mathematical Research Institute, University of Sevilla (IMUS), Sevilla, Spain. (May 2009, p. 658)

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

## November 2009

1–6 **23rd Large Installation System Administration Conference (LISA '09)**, Baltimore Marriott Waterfront, 700 Aliceanna Street, Baltimore, Maryland. (Mar. 2009, p. 416)

1–December 31 **Financial Mathematics**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Jan. 2009, p. 73)

2–6 **Combinatorics: Topics in Graphs and Hypergraphs**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Jan. 2009, p. 74)

2–6 **The Cuntz Semigroup**, American Institute of Mathematics, Palo Alto, California. (Apr. 2009, p. 525)

\* 6–10 **XV International Conference on Mathematics, Informatics and Related Fields**, Hotel Energetyk, Naleczow, Poland.

**Topics:** Mathematical analysis, probability and statistics, computer science, applied mathematics and mathematical didactics.

**Scientific Committee:** Bogdan Bojarski, Theodor Bulboaca, Stanisława Kanas, Jacek Kluska, Józef Korbicz, Piotr Liczberski, Dariusz Partyka, Wiesław Pleśniak, Arkadiusz Płoski, Dymitr Prokhorov, Zdzisław Rychlik, Józef Siciak, Hari M. Srivastava, Jan Stankiewicz, Toshiyuki Sugawa, Zbigniew Suraj, Józef Zając, Jarosław Zemanek.

**Organizing Committee:** Stanisława Kanas, Beata Fałda, Zdzisław Rychlik, Anna Szpila, Katarzyna Wilczek.

**Information:** <http://ptm.prz.rzeszow.pl/konferencja/>.

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

9–13 **Cyclic homology and symplectic topology**, American Institute of Mathematics, Palo Alto, California. (Apr. 2009, p. 525)

19–21 **2nd meeting on Optimization Modelization and Approximation Moma 2009**, Hassania School, Public Works Département de

Mathématiques et Informatique Km 7, Route d'El Jadida, B.P 8108, Oasis-Casablanca, Morocco. (May 2009, p. 658)

\* 23–27 **Mathematics and Astronomy: A Joint Long Journey**, CSIC, Madrid, Spain.

**Description:** Mathematics and Astronomy walked together for thousands of years. Ptolemy, Copernicus, Galileo, Kepler, Newton are good examples of this fruitful interaction between both disciplines. In medieval educational theory, the “quadrivium” consisted of arithmetic, geometry, music, and astronomy, which prove their common past in the development of science. More recently, the extraordinary works by Einstein with the General Theory of Relativity give new insights to our vision of the universe, in a wonderful cooperation of geometry and physics. The proposed symposium wants to show and stress these links with the occasion of the celebration of the International Year of Astronomy IYA2009.

**Information:** <http://www.astromath2009.com>.

29–December 4 **Southern Right Delta ( $\Sigma\Delta'09$ ) Conference on the Teaching and Learning of Undergraduate Mathematics and Statistics**, Gordon's Bay, Western Cape, South Africa. (Feb. 2009, p. 310)

## December 2009

1–4 (NEW DATE) **Combinatorics: Analytical Methods in Combinatorics, Additive Number Theory and Computer Science**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Dec. 2008, p. 1452)

7–9 **SIAM Conference on Analysis of Partial Differential Equations (PD09)**, Hilton Miami Downtown, Miami, Florida. (Feb. 2009, p. 310)

7–11 **IMA Workshop: Microfluidics: Electrokinetic and Interfacial Phenomena**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2009, p. 525)

14–18 **Brownian motion and random matrices**, American Institute of Mathematics, Palo Alto, California. (May 2009, p. 659)

16–18 **The 4th Indian International Conference on Artificial Intelligence: (IICAI-09)**, Tumkur (near Bangalore), India. (Dec. 2008, p. 1452)

17–21 **The 14th Asian Technology Conference in Mathematics (ATCM 2009)**, Beijing Normal University, Beijing, China. (Apr. 2009, p. 525)

19–21 **International Conference on Current Trends in Mathematics**, Allahabad, Uttar Pradesh, India. (May 2009, p. 659)

## January 2010

2–4 **International Convention on Mathematical Sciences**, Allahabad, India. (May 2009, p. 659)

17–19 **ACM-SIAM Symposium on Discrete Algorithms (SODA10)**, Hyatt Regency Austin, Austin, Texas. (Apr. 2009, p. 525)

24–26 **International Conference on Analysis and Applications (ICAA10)**, Sultan Qaboos University, Muscat, Oman. (May 2009, p. 659)

\* 25–29 **Metamaterials: Applications, Analysis and Modeling**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

**Overview:** This workshop brings together three groups of people: physicists and engineers working on metamaterials and their applications; mathematicians who are studying homogenization in high contrast materials and are providing a greater understanding of the mathematics of metamaterials; and numerical analysts interested in the solving the microscopic and macroscopic equations governing the behavior of metamaterials.

**Organizing Committee:** Robert Kohn, Graeme Milton, Susanne Brenner, Maria-Carme Calderer, Tatsuo Itoh, Jichun Li, Chi-Wang Shu, Richard Ziolkowski.

**Application/Registration:** An application and registration form is available at: <http://www.ipam.ucla.edu/programs/meta2010>. Applications received by November 30, 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 simply register and attend without IPAM funding.

### February 2010

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8-11 **The International Symposium on Stochastic Models in Reliability Engineering, Life Sciences, and Operations Management**, Sami Shamon College of Engineering, Bialik/Basel Sts., Beer Sheva, 84100, Israel. (May 2009, p. 659)

\* 8-12 **Mathematical Problems, Models and Methods in Biomedical Imaging**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

**Overview:** The workshop's topics will include some of the current major technologies and emerging mathematical problems in biomedical imaging. The emphasis will be on the interface between Mathematics and Biomedical Imaging to promote new ideas and research at the frontiers of interdisciplinary studies.

**Organizing Committee:** Hongkai Zhao, Yair Censor, Steve Jiang, Belinda Seto, Lei Xing.

**Application/Registration:** An application and registration form is available at: <http://www.ipam.ucla.edu/programs/bmed2010>. Applications received by Dec. 14, 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 simply register and attend without IPAM funding.

\* 18-19 **February Fourier Talks 2010**, Norbert Wiener Center, University of Maryland, College Park, Maryland.

**Description:** Each year the two-day February Fourier Talks, organized by the Norbert Wiener Center in the Department of Mathematics at the University of Maryland, College Park, feature a diverse array of invited talks in the field of Harmonic Analysis and Applications. A single track of presentations from top academic, industry, and government researchers is scheduled, allowing ample time for interaction with other participants. The conference will feature a talk in our Distinguished Lecturer Series by Elias Stein of Princeton University, and the Norbert Wiener Lecture, delivered by Charles Fefferman of Princeton University.

**Information:** <http://www.norbertwiener.umd.edu/FFT/FFT10/index.html>.

22-26 **IMA Workshop: Analysis and Computation of Incompressible Fluid Flow**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2009, p. 525)

\* 22-26 **Statistical and Learning-Theoretic Challenges in Data Privacy**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

**Overview:** The workshop's goal is to establish a coherent theoretical foundation for research on data privacy. This implies work on how the conflicting goals of privacy and utility can or should be formulated mathematically, and how the constraints of privacy affect the accuracy of statistical inference and machine learning.

**Organizing Committee:** Adam Smith, Cynthia Dwork, Stephen Fienberg, Aleksandra Slavkovic.

**Application/Registration:** An application and registration form is available at <http://www.ipam.ucla.edu/programs/data2010>. Applications received by December 21, 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 simply register and attend without IPAM funding.

24-26 **SIAM Conference on Parallel Processing and Scientific Computing (PPI0)**, Hyatt Regency Seattle, Seattle, Washington. (Apr. 2009, p. 525)

### March 2010

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\* 8-12 **AIM Workshop: Mock Modular Forms in Combinatorics and Arithmetic Geometry**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will focus on mock modular forms as they occur in combinatorics and arithmetic geometry and explore some other potential applications.

**Information:** <http://www.aimath.org/ARCC/workshops/mockmodular.html>.

8-June 11 **Long Program: Model and Data Hierarchies for Simulating and Understanding Climate**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Apr. 2009, p. 526)

15-19 **Localization techniques in equivariant cohomology**, American Institute of Mathematics, Palo Alto, California. (May 2009, p. 659)

\* 18-21 **First International Conference on Mathematics and Statistics, AUS-ICMS '10**, American University of Sharjah (AUS), Sharjah, United Arab Emirates.

**Description:** The main objective of the conference is to bring together researchers and scientists working in all areas of mathematics and statistics from academia and industry to exchange research ideas, discuss the most recent advancements in all fields of mathematics and sciences, and to promote interaction between our faculty and researchers from the region and worldwide.

**Topics:** To be covered include, but are not limited to: Algebra, analysis, applied mathematics, applied statistics, differential equations, discrete mathematics, financial mathematics, mathematics education, number theory, numerical analysis, probability theory, statistics, stochastic differential equations, and topology and geometry.

**Information:** <http://www.aus.edu/conferences/icms10/>.

\* 29-April 2 **AIM Workshop: Computational optimization for tensor decompositions**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to facilitating the development of new decomposition methods and to provide fundamentally new insights into both tensor decompositions and numerical optimization.

**Information:** <http://aimath.org/ARCC/workshops/comptensor.html>.

### April 2010

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12-16 **IMA Workshop: Transport and Mixing in Complex and Turbulent Flows**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2009, p. 526)

### May 2010

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\* 17-20 **25th Annual Shanks Lecture and Conference: Optimal Configurations on the Sphere and Other Manifolds**, Vanderbilt University, Nashville, Tennessee.

**Description:** The aim of this conference is to bring together mathematicians and scientists for the purpose of gaining a better understanding of the structure of particle systems under a variety of physical constraints. These include, for example, classical ground states for interacting particle systems, best-packing, random packings, jammed states, granular and colloidal systems, as well as minimal discrete and continuous energy problems for general kernels.

**Information:** <http://www.math.vanderbilt.edu/~shanks2010>.

\* 25-28 **8th AIMS Conference on Dynamical Systems, Differential Equations and Applications**, Dresden, Germany.

**Plenary Speakers:** Luis Caffarelli, Emmanuel Candes, Kuo-Chang Chen, Barbara Gentz, Louis Nirenberg, Masaharu Taniguchi, Gunther Uhlmann, Lai-Sang Young

**Organizers:** The American Institute of Mathematical Sciences Dresden University of Technology.

**Information:** Stefan Siegmund, [stefan.siegmund@tu-dresden.de](mailto:stefan.siegmund@tu-dresden.de); Shouchuan Hu, [shu@missouristate.edu](mailto:shu@missouristate.edu); Xin Lu, [lux@uncw.edu](mailto:lux@uncw.edu); <http://aimsciences.org/ATMS-Conference/2010/>.

\* 25–29 **BALWOIS 2010: Fourth International Scientific Conference**, Ohrid, Republic of Macedonia.

**Description:** Conference on Water Observation and Information System for Decision Support. Scientific presentations, Forum exchange, Workshops, Exhibition, Social program, etc.

**Main topics:** Climate and hydrology, environment and human activities, water related risks, integrated water resources management, eco-hydrology, computing and technology.

**Deadlines:** Submission of Abstract: November 15, 2009. Author Notification of Abstract Acceptance: December 15, 2009. Submission of Full Paper: February 15, 2010. Author Notification of Full Paper Acceptance: March 15, 2010.

**Supporters:** Ministry of Environment of Republic of Macedonia, French Ministry of Ecology, French Embassy in Macedonia, and International Association of Hydrological Sciences

**Information:** email: [secretariat@balwois.com](mailto:secretariat@balwois.com); <http://www.balwois.com/2010>. Project website: <http://www.balwois.com>.

The following new announcements will not be repeated until the criteria in the next to the last paragraph at the bottom of the first page of this section are met.

## June 2010

\* 2–5 **Number Theory and Representation Theory—A conference in honor of Dick Gross' 60th birthday**, Science Center, Harvard University, Cambridge, Massachusetts.

**Description:** A conference focusing on the many exciting interactions between number theory and representation theory.

**Speakers:** Manjul Bhargava, Henri Darmon, Samit Dasgupta, Noam Elkies, Wee-Teck Gan, Joe Harris, Mike Hopkins, Nick Katz, Curt McMullen, Steve Kudla, Dipendra Prasad, Mark Reeder, Gordan Savin, Doug Ulmer, Marie-France Vigneras, Jiu-Kang Yu, Don Zagier, and Shou-Wu Zhang. On the evening of June 4th, 2010, there will be a dinner in honor of Dick Gross' 60th birthday.

**Information:** [http://www.math.harvard.edu/conferences/gross\\_10/index.html](http://www.math.harvard.edu/conferences/gross_10/index.html).

\* 17–19 **Coimbra Meeting on 0-1 Matrix Theory and Related Topics**, Department of Mathematics, University of Coimbra, Portugal.

**Description:** Matrices with entries consisting only of zeros and ones, whose entry sums of rows and columns are constrained, play an active role in modern mathematics and its applications, extending far beyond their natural context of Matrix Theory, Combinatorics, or Graph Theory. The purpose of this meeting is to bring together mathematicians from different areas with a view to exploring a number of new properties on the set  $A(R,S)$ , whose insertion tableau has a previously-fixed shape, and identifying fruitful avenues for further research. In spite of their extremely demanding nature, recent developments and procedures have evidenced a remarkable elegance and beauty, strengthening the interdisciplinary approach of the issue. It is the purpose of this meeting to attract more mathematicians to this exciting and important area, and to foster collaborations with other scientific users. This meeting is endorsed by the International Linear Algebra Society-ILAS.

**Information:** <http://www.mat.uc.pt/~cmf/01MatrixTheory>.

\* 21–26 **“Alexandru Myller” Mathematical Seminar Centennial Conference**, “Al. I. Cuza” University of Iași, Romania.

**Description:** The Conference is a centennial celebration of the “Alexandru Myller” Mathematical Seminar of the “Al. I. Cuza” University of Iași. This celebration is also part of the anniversary of 150 years from the founding of the University of Iași. The Mathematical Seminar was founded in 1910 by the late Professor A. Myller, who obtained his

Ph.D. degree at Göttingen in 1907. Besides a general session dedicated to the history of the Mathematical Seminar, there will be several sessions on the basic branches of mathematics listing both invited and contributed presentations.

**Organizing Committee:** Professors Viorel Barbu (chairman), Radu Miron, Constantin Corduneanu, Ovidiu Cârjă, Răzvan Lițcanu, Marius Durea. All current and former members of the “A. Myller” Mathematical Seminar are invited to participate. The invitation is also extended to all interested persons from the international mathematical community.

**Information:** <http://www.math.uaic.ro/~Myller2010>.

\* 26–30 **2010 International Conference on Topology and its Applications**, Nafpaktos, Greece.

**Description:** The Department of Mathematics of the University of Patras and the Department of Telecommunication Systems and Networks of the T.E.I. of Messologhi with the hospitality of the city of Nafpaktos organize the 2010 International Conference on Topology and its Applications. All areas of Topology and its Applications are included (General topology, set-theoretic topology, geometric topology, algebraic topology, applied topology. In particular, topological groups, dimension theory, dynamical systems and continua theory, computational topology, history of topology). The conference is the continuation of the 2006 International Conference on Topology and its Applications (see <http://www.math.upatras.gr/~aegion>).

**Organizing Committee:** S. D.Iliadis (Chairman), D. N. Georgiou, I. E. Kougias, Th. Papathanasis.

**Information:** <http://www.math.upatras.gr/~nafpaktos/>; email: [nafpaktos@math.upatras.gr](mailto:nafpaktos@math.upatras.gr).

## August 2010

\* 12–15 **International Conference on Recent Trends in Graph Theory and Combinatorics, ICRTGC-2010**, Cochin, India.

**Information and Location:** This conference is a Satellite Conference of the International Congress of Mathematicians to be held at Hyderabad, India, from August 19–27, 2010, <http://www.icm2010.in>.

**Programme:** The academic programme will consist of plenary and invited talks by eminent researchers in the field of Graph theory, Combinatorics and related topics, contributed presentations and mini symposia/special sessions on specific themes such as Algebraic Graph Theory, Metric Graph Theory and Graph Products, Graph Labeling and Graph Operators.

**Contact:** Ambat Vijayakumar, Convener ICRTGC-2010, Department of Mathematics, Cochin University of Science and Technology, Cochin-682 022 India. Email: [icrtgc2010@gmail.com](mailto:icrtgc2010@gmail.com); [icrtgc2010@cusat.ac.in](mailto:icrtgc2010@cusat.ac.in). <http://icrtgc2010.cusat.ac.in/>.

\* 23–27 **International Workshop on Geodesics**, Chern Institute of Mathematics, Nankai University, Tianjin, China.

**Description:** This joint workshop of the American Institute of Mathematics (AIM) and the Chern Institute of Mathematics (CIM), sponsored by AIM, CIM, and the NSF, will be devoted to the study of the behavior of geodesics in the large. Although this is an old subject, with important contributions first made by J. Hadamard and H. Poincaré, many of the fundamental problems are still open.

**Information:** <http://aimath.org/ARCC/workshops/geodesics.html>.

\* 31–September 4 **Permanents and modeling probability distributions**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will study the problem of estimating a probability distribution from a small data sample it generates. The workshop will investigate consolidating a theoretical and algorithmic framework for this topic.

**Information:** <http://aimath.org/ARCC/workshops/permanents.html>.