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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 2008

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- \* 1–3 **Applied Mathematics, Simulation, Modeling 2008**, Marathon Beach, Attica, Greece.  
**Information:** <http://www.naun.org/conferences/2008/asm/index.html>; email: [thomas2008k@gmail.com](mailto:thomas2008k@gmail.com).
- \* 1–3 **Circuits, Systems, and Signals 2008**, Marathon Beach, Attica, Greece.  
**Information:** <http://www.naun.org/conferences/2008/css/index.html>; email: [thomas2008k@gmail.com](mailto:thomas2008k@gmail.com).
- \* 1–3 **Communications and Information Technology 2008**, Marathon Beach, Attica, Greece.  
**Information:** <http://www.naun.org/conferences/2008/cit/index.html>; email: [thomas2008k@gmail.com](mailto:thomas2008k@gmail.com).
- \* 1–7 **Methods of Logic in Mathematics**, The Euler International Mathematical Institute, Saint-Petersburg, Russia.  
**Description:** This is the fifth meeting in a series of meetings which take place every summer in the Euler International Mathematical Institute in St. Petersburg. The invited talks of conference will present recent development in mathematical logic and its interactions with other areas of mathematics, esp. number theory, algebra, etc. There will be two tutorial talks which will focus on the current research interests of logic groups in Vienna and St. Petersburg.  
**Information:** email: [mlm@imi.ras.ru](mailto:mlm@imi.ras.ru); <http://www.pdmi.ras.ru/EIMI/2008/MLM/>.

1–7 **ULTRAMATH 2008 Applications of Ultrafilters and Ultra-products in Mathematics**, Pisa, Italy. (Apr. 2008, p. 523)

\* 2–5 **Knot concordance: Fifty Years since Fox and Milnor**, Brandeis University, Waltham, Mass.

**Description:** Fifty years ago, in a 1957 research announcement for the summer AMS meeting, R. H. Fox and J. Milnor, began their influential collaboration with the title, “Singularities of 2-spheres in 4-space and equivalence of knots.” Here they introduced the seminal idea that the concordance class of the link of a singularity obstructs its removal. Both concordance of knots, and the motivating goal of understanding singularities remain central to topology and algebraic geometry. A conference is being held to bring together a variety of researchers and students in geometric topology whose work connects to this fundamental idea. The conference will also honor the memory of Jerry Levine, a pioneer and key contributor to the field.

**Financial Support:** We anticipate financial support from the NSF, and in particular expect to offer partial support to recent Ph.D.s and graduate students. To request support, please click the appropriate box on the registration page.

**Information:** email: [ruberman@brandeis.edu](mailto:ruberman@brandeis.edu); <http://www.math.brandeis.edu/knot-conference.html>.

\* 2–6 **Berkeley Workshop on Representation Theory, Geometry and Combinatorics**, University of California, Berkeley, California.

**Description:** The program will feature lecture series by David Hernandez (CNRS, Versailles), Mark Shimozono (Virginia Tech). There will also be one-hour talks by other participants, and time

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

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

reserved for discussion. We intend that lectures and talks should be at a level accessible to graduate students and postdocs, whom we especially encourage to attend and speak. Registration is free and some travel support is available — please see the workshop webpage for more information: <http://math.berkeley.edu/~mhaiman/workshop-2008/>.

\*2–6 **Conference on Ricci curvature and complex geometry**, Institut Henri Poincaré, Paris, France.

**Description:** This conference is part of the IHP trimester on Ricci curvature and Ricci flow.

**Topics:** Include Kahler-Einstein metrics, Kahler-Ricci flow and Kahler metrics of constant scalar curvature. Another topic will be the notion of Ricci curvature for metric-measure spaces. Some financial support may be available for attendees.

**Information:** For further information, write to: [ricci@ihp.jussieu.fr](mailto:ricci@ihp.jussieu.fr); <http://www.ihp.jussieu.fr/ceb/Trimestres/T08-2/C2/index.html>.

2–6 **International conference on linear preservers and operator theory**, Faculté des Sciences, Université Moulay Ismail, Meknès, Morocco. (Apr. 2008, p. 523)

\*2–6 **Number Fields, Lattices and Curves**, Cetraro, Italy.

**Description:** Announcement FP6 Research and Training Network Meeting (GTEM Galois Theory and Explicit Methods) Instructional workshop “Number fields, Lattices and Curves”.

**Topics:** Arakelov class groups, curves over finite fields, lattices, sphere packing, Buchmann’s algorithm, Euclidean number fields.

**Information:** <http://www.mat.uniroma2.it/~eal/gtem.html>.

2–7 **Workshop on Mathematical Aspects of Quantum Chaos**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada.

2–13 **Motives, Quantum Field Theory, and Pseudodifferential Operators**, Boston University, Boston, Massachusetts. (Apr. 2008, p. 523)

\*3–6 **Annual International Conference DIFFRACTION DAYS’ 08**, The Steklov Mathematical Institute, St. Petersburg, Russia.

**Description:** The “Days on Diffraction” have been held since the late 1960’s. Originally these were one-day seminars summing up the results of the famous Leningrad Diffraction Theory School headed by V. A. Fock and V. I. Smirnov. The “Days on Diffraction-2008” will be the four-day conference, parallel concurrent sessions will be organized, each presentation of 15 or 30 minutes (total amount of presentations is expected to exceed 100). The last day of the conference will be devoted to the plenary sessions (consisting of 40-50 minutes lectures) and to the poster presentations.

**Information:** email: [dd08@pdmi.ras.ru](mailto:dd08@pdmi.ras.ru); <http://math.nw.ru/dd08/>.

3–6 **Chaotic Modeling and Simulation International Conference (CHAOS2008)**, MAICh (Mediterranean Agronomic Institute of Chania) Conference Centre, Chania, Crete, Greece. (Feb. 2008, p. 306)

4–7 **First Joint International Meeting with the Sociedade Brasileira de Matematica**, Instituto Nacional de Matematica Pura e Aplicada (IMPA), Rio de Janeiro, Brazil. (Jun/Jul 2007, p. 784)

5–6 **Mini-Workshop: Entropies and Optimal Transport in Quantum Mechanics**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Apr. 2008, p. 523)

6–10 **International Conference on Discrete Mathematics-ICDM 2008**, University of Mysore, Mysore, India. (Dec. 2007, p. 1534)

6–11 **Tenth International Conference on Geometry, Integrability and Quantization**, Varna, Bulgaria. (Mar. 2008, p. 409)

\*7–8 **Non-commutative constructions in arithmetic and geometry**, University College, London, London, United Kingdom.

**Description:** At this point, there are a few inter-related research programs in arithmetic and geometry where the theme of non-commutativity plays an important role. This meeting brings together a small number of experts who will deliver expository lectures of 90 minute duration, addressed to each other and to whomever else is interested.

**Information:** email: [minhyong.kim@ucl.ac.uk](mailto:minhyong.kim@ucl.ac.uk); <http://www.ucl.ac.uk/~ucahmki/ncc.html>.

8–14 **34th International Conference “Applications of Mathematics in Engineering and Economics” (AMEE’08)**, The Black Sea resort of Sozopol, Bulgaria. (Feb. 2008, p. 306)

8–14 **Reconnect Conference 2008**, DyDAn Center, Rutgers University, Piscataway, New Jersey. (May 2008, p. 631)

9–12 **International Cryptology Workshop and Conference 2008 (Cryptology2008)**, Putra World Trade Center (PWTC), Kuala Lumpur, Malaysia. (Jan. 2008, p. 76)

9–13 **Educational Week on Noncommutative Integration**, Leiden University, Leiden, Netherlands. (May 2008, p. 631)

9–13 **Free Boundary Problems, Theory and Applications, 2008**, KTH, Stockholm, Sweden. (Dec. 2007, p. 1534)

\*9–13 **Hot Topics: Contact Structures, Dynamics and the Seiberg-Witten Equations in Dimension 3**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** This workshop will concentrate on recently discovered relationships between Seiberg-Witten theory and contact geometry on 3-dimensional manifolds. One consequence of these relationships is a proof of the Weinstein conjecture in dimension 3. Another is an isomorphism between the Seiberg-Witten Floer (co)homology and embedded contact homology, the latter a form of Floer homology that was defined by Michael Hutchings. The overarching plan is to introduce the salient features of both the contact geometry side of the story and the Seiberg-Witten side, and then discuss how they are related.

**Information:** [http://www.msri.org/calendar/workshops/WorkshopInfo/461/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/461/show_workshop).

9–13 **12th International Conference on Hyperbolic Problems: Theory, Numerics, Applications**, University of Maryland, College Park, Maryland. (Jun/Jul 2007, p. 784)

9–13 **FVCA5 5th International Symposium on Finite Volumes for Complex Applications Problems and Perspectives**, Aussois, Savoie, France. (Dec. 2007, p. 1534)

9–14 **II International Summer School on Geometry, Mechanics and Control**, La Palma (Canary Islands), Spain. (Apr. 2008, p. 523)

9–19 **Advances in Set-Theoretic Topology: Conference in Honour of Tsugunori Nogura on his 60th Birthday**, Centre for Scientific Culture “Ettore Majorana”, Erice, Sicily, Italy. (Jun/Jul 2007, p. 784)

\*9–20 **GTEM/TUBITAK Summer School: Geometry and Arithmetic of Moduli Spaces of Coverings**, Galatasaray University, Department of Mathematics, Ciragan Cad. No. 36, 34357 Istanbul, Turkey.

**Description:** This is a research-oriented advanced summer school on Hurwitz stacks, groups actions on stacks, algebraic fundamental groups of schemes and stacks, Galois action on the Teichmüller tower, profinite Teichmüller theory, rational points on Hurwitz spaces, and Modular Towers. A solid knowledge of basic algebraic geometry and topological fundamental groups is necessary for participation. A knowledge of moduli spaces of Riemann surfaces, mapping class groups, profinite groups will be helpful, but not necessary. On the other hand, lecturers will be asked to make an effort to make their expositions clear and understandable, and indicate research directions.

**Information:** email: [celalcm@gmail.com](mailto:celalcm@gmail.com); <http://math.gsu.edu.tr/GAMSC/index.htm>.

9–20 **Parallel Numerical Methods for Partial Differential Equations**, University of Wyoming, Laramie, Wyoming. (Dec. 2007, p. 1534)

9–20 **Symmetry and Integrability of Difference Equations**, Université de Montréal, Québec, Canada. (May 2008, p. 631)

10–14 **Summer Symposium in Real Analysis XXXII**, Chicago State University, Chicago, Illinois. (Feb. 2008, p. 306)

11–15 **3rd Conference on Analysis and Probability on Fractals**, Cornell University, Ithaca, New York. (Apr. 2008, p. 523)

13–16 **8Th International Confernce of Computational and Mathematical Methods in Science and Engeneering CMMSE-2008**, Hotel Melia Galua, Manga del Mar Menor, Murcia, Spain. (Apr. 2008, p. 524)

14–28 **International Summer School on Modelling and Optimization in Micro- and Nano-Electronics - MOMINE'08**, Conference Centre Baia Samuele, Ragusa, Sicily, Italy. (May 2008, p. 631)

15–22 **ESF-MSHE-PAN Conference on Operator Theory, Analysis and Mathematical Physics**, Mathematical Research and Conference Center, Bêdlewo, Poland. (May 2008, p. 631)

15–24 **CIMPA Summer School Nonlinear Analysis and Geometric PDE**, The Conference Centre of Yerevan State University, Tsaghkadzor, Armenia. (Apr. 2008, p. 524)

15–28 **Aspects of Moduli**, de Giorgi Center; Scuola Normale Superiore, Pisa, Italy. (Feb. 2008, p. 306)

16–19 **SIAM Conference on Discrete Mathematics**, University of Vermont, Burlington, Vermont. (Jan. 2008, p. 76)

\* 16–20 **11th Rhine Workshop on Computer Algebra**, Grand Hotel Bellavista, Levico Terme, Trento, Italy.

**Scientific Organizers:** A. Caranti (Trento), J. Draisma (Eindhoven), B. Eick (Braunschweig), W. de Graaf (Trento), J. Schicho (Linz), T. Theobald (Frankfurt). Main lecturers: L. Bartholdi (Lausanne), A. Elashvili (Tbilisi), H. Hauser (Wien), G. Ivanyos (Budapest), M. Kreuzer (Passau), L. Ronyai (Budapest), C. Schneider (Budapest).

**Deadline for registration:** May 15, 2008

**Information:** email:michelet@science.unitn.it;http://science.unitn.it/~degraaf/rwca.html.

16–20 **15th Conference of the International Linear Algebra Society**, Westin Resort and Spa, Cancun, Mexico. (May 2008, p. 631)

16–20 **Conference on vector bundles in honour of S. Ramanan on the occasion of his 70th birthday**, Miraflores de la Sierra, Madrid, Spain. (Mar. 2008, p. 409)

16–21 **International Scientific Conference: "Differential Equations, Theory of Functions and their Applications" dedicated to 70th birthday of academician of NAS of Ukraine A. M. Samoilenko**, Tavriyskiy State Agrotechnological Universit, Melitopol, Ukraine. (Mar. 2008, p. 409)

16–22 **CRM-CIM Workshop GAP VI: Workshop on Geometry and Physics**, Universitat Politècnica de Catalunya, Barcelona, Spain. (Dec. 2007, p. 1535)

17–20 **4th Croatian Mathematical Congress**, Department of Mathematics, University of Osijek, Osijek, Croatia. (Jun/Jul 2007, p. 784)

17–22 **Differential Equations and Topology**, Lomonosov Moscow State University, Moscow, Russia. (Nov. 2007, p. 1404)

\* 18–20 **Imaging Microstructures: Mathematical and Computational Challenges**, Institut Henri Poincaré, Paris, France.

**Description:** Mathematical sciences can be critical to certain areas of imaging. The problems that appear in imaging pose significant challenges to our community. The methods involved come from a wide range of areas of pure and applied mathematics ranging from potential theory to PDEs, to scattering theory, to complex analysis,

to numerical methods. The aim of this workshop is to merge our expertise and to direct interest towards challenging issues such as robust algorithms for imaging defects in composite materials, the mathematics of invisibility or the mathematics of super-resolution. **Information:** <http://www.ihp.jussieu.fr/>; <http://www.cmap.polytechnique.fr/~ammari/workshop08.html>; email: [habib.ammari@polytechnique.fr](mailto:habib.ammari@polytechnique.fr);

18–21 **Conference on Algebra and its Applications, in honor of S. K. Jain's 70th birthday**, Ohio University, Athens, Ohio. (Nov. 2007, p. 1404)

20–21 **Financial & Economic Engineering Symposium**, National School of Applied Sciences, Agadir, Morocco. (Mar. 2008, p. 410)

22–27 **2008 USENIX Annual Technical Conference (USENIX '08)**, Sheraton Boston Hotel, 39 Dalton Street, Boston, Massachusetts (Mar. 2008, p. 410)

\* 22–27 **CR Geometry and PDE's - III**, Grand Hotel Bellavista, Levico Terme, Trento, Italy.

**Scientific organizers:** D. Zaitsev (Dublin) and G. Zampieri (Padova). **Confirmed Participants:** M. Agranovsky (Ramat Gan), L. Baracco (Padova), V. Beloshapka (Moscow), S. Berhanu (Philadelphia), L. Boutet de Monvel (Paris VI), A. Bove (Bologna), F. Bracci (Roma II), F. Colombini (Pisa), P. Cordaro (Sao Paulo), J. D'Angelo (Urbana-Champaign), D. Del Santo (Trieste), P. Dolbeault (Paris), P.F. Ebenfelt (San Diego), G. Fels (Darmstadt), F. Forstneric (Ljubljana), L. Geatti (Roma II), J. Globevnik (Ljubljana), C.-K. Han (Seoul), N. Hanges (New York), C.D. Hill (Stony Brook), J. Hounie (Sao Carlos), A. Isaev (Canberra), S. Ivashkovich (Lille), K.-T. Kim (Pohang), S.-Y. Kim (Seoul), H.-M. Maire (Geneve), M. Nacinovich (Roma), A. Parmeggiani (Bologna), M. Peloso (Torino), J.P. Rosay (Madison), G. Schmalz (Armidale), N. Shcherbina (Wuppertal), A. Spiro (Camerino), L. Stolzovitch, D. Tartakoff (Chicago), G. Tomassini (Pisa), S.M. Webster (Chicago).

**Deadline for registration:** May 15, 2008.

**Information:** email:michelet@science.unitn.it;http://science.unitn.it/cirm/AnnCR2008.html.

22–August 22 **Research in Industrial Projects for Students (RIPS)**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Feb. 2008, p. 306)

22–28 **Combinatorics 2008**, Costermano, Verona, Italy. (Sept. 2007, p. 1075)

22–28 **Symmetries and Integrability of Difference Equations/SIDE8**, SIDE 8 will take place at Hotel Mont-Gabriel, in Ste-Adèle, Québec, Canada. (The Laurentian area near Montréal). (Jan. 2008, p. 76)

22–29 **46th International Symposium on Functional Equations**, Opava-Hradec and Moravici, Czech Republic. (Jan. 2008, p. 77)

23–27 **Conference on Differential and Difference Equations and Applications 2008(CDDEA 2008)**, Strečno (close to Žilina), Slovak Republic. (Feb. 2008, p. 306)

\* 23–27 **Conference on Ricci flow and related topics**, Institut Henri Poincare, Paris, France.

**Description:** This conference is part of the IHP trimester on Ricci curvature and Ricci flow. It will be devoted to recent advances in Ricci flow, along with related subjects. Some financial support for attendees may be available.

**Information:** [ricci@ihp.jussieu.fr](mailto:ricci@ihp.jussieu.fr); <http://www.ihp.jussieu.fr/ceb/Trimestres/T08-2/C3/index.html>.

23–27 **Differential Equations and Applications to Mathematical Biology**, Le Havre, France. (May 2008, p. 632)

23–27 **First Iberoamerican Meeting on Geometry, Mechanics, and Control**, Santiago de Compostela, Spain. (Apr. 2008, p. 524)

23–27 **20th International Conference on “Formal Power Series and Algebraic Combinatorics”**, Valparaiso, Chile. (Mar. 2008, p. 410)

23–27 **Hermitian Symmetric Spaces, Jordan Algebras and Related Problems**, CIRM Luminy, Marseille, France. (Jun/Jul 2007, p. 784)

23–27 **Homotopical Group Theory and Topological Algebraic Geometry**, Max Planck Institute for Mathematics, Bonn, Germany. (Oct. 2007, p. 1190)

23–27 **Workshop on Geometric Analysis, Elasticity, and PDE on the 60th Birthday of John Ball**, Maxwell Institute and Department of Mathematics, Heriot-Watt University, Edinburgh, Scotland. (Mar. 2008, p. 410)

\* 23–28 **17th Summer St. Petersburg Meeting in Mathematical Analysis**, The Euler International Mathematical Institute, St. Petersburg, Russia.

**Description:** The Summer Meeting in Mathematical Analysis is annually held in St. Petersburg. This conference will be dedicated to the 75th anniversary of Viktor Havin.

**Information:** email: analysis@pdmi.ras.ru; <http://www.pdmi.ras.ru/EIMI/2008/analysis17/>.

23–28 **2008 Stochastic Networks Conference**, Ecole Normale Supérieure, Paris, France. (Mar. 2008, p. 410)

23–July 18 **Clay Mathematics Institute 2008 Summer School on Evolution Equations**, Swiss Federal Institute of Technology, ETH-Zurich, Switzerland. (Jan. 2008, p. 77)

23–28 **Conference on Moment Maps**, Universitat Politècnica de Catalunya, Barcelona, Spain. (Dec. 2007, p. 1535)

24–26 **Current Geometry, the IX Edition of the International Conference on problems and trends of contemporary geometry**, Hotel Oriente, Via Luigi Serio 10, 80069 Vico Equense, Naples, Italy. (May 2008, p. 632)

\* 24–26 **Fifth Advanced Course in Operator Theory and Complex Analysis**, University of Seville, Seville, Spain.

**Description:** A new edition of the Advanced Course in Operator Theory and Complex Analysis will be held one more time in Seville on June 2008 with the following three-hours courses: Kristian Seip - Hardy spaces of Dirichlet series; Johannes Sjöstrand - Non-self-adjoint differential operators: spectral instability and random perturbations; Carl Sundberg - Multivariable complex analytic function theory; Nicholas Young - Complex geometry via families of operators. Courses and talks will cover topics on Complex Analysis, Operator Theory, and related areas of Functional Analysis. Contributed talks related to these topics will also take place: participants who wish to deliver a short talk please submit an abstract to the organizers or any of the collaborators at [ceacyto5@eos.us.es](mailto:ceacyto5@eos.us.es).

24–28 **Analysis and Geometry in Several Complex Variables**, Mathematics Institute of Romanian Academy (IMAR), Bucharest, Romania. (Mar. 2008, p. 410)

25–27 **ICNPAA 2008: Mathematical Problems in Engineering, Aerospace and Sciences [Theory, Methods (includes Experimental, Computational) and Applications]**, University of Genoa, Italy. (Jun/Jul 2007, p. 784)

25–28 **VII Iberoamerican Conference on Topology and its Applications**, Valencia, Spain. (Apr. 2008, p. 524)

\* 25–28 **Workshop on Algorithms for Modern Massive Data Sets (MMDS 2008)**, Stanford University, Stanford, California.

**Description:** The 2008 Workshop on Algorithms for Modern Massive Data Sets (MMDS 2008) will address algorithmic, mathematical, and statistical challenges in modern statistical data analysis. The goals of MMDS 2008 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.

**Organizers:** This workshop is organized by Gunnar Carlsson (Stanford), Michael Mahoney (Yahoo), Lek-Heng Lim (Berkeley), and Petros Drineas (RPI).

**Information:** email: [lekheng@math.berkeley.edu](mailto:lekheng@math.berkeley.edu); <http://mmds.stanford.edu>.

\* 28–July 2 **CMI/MSRI Workshop: Modular Forms and Arithmetic**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** This conference, jointly funded by MSRI and the Clay Mathematics Institute, will bring together researchers on many aspects of the arithmetic applications of modular (and automorphic) forms. This is currently a very broad and very active subject. Our intention is to encourage interaction between those working in different sub-disciplines. To this end it is hoped to limit lectures to 4 hours a day, allowing plenty of time for informal interactions. On Tuesday, July 1, 2008, at 7:00 p.m. there will be a dinner to honor Ken Ribet on his 60th birthday.

**Information:** [http://www.msri.org/calendar/workshops/WorkshopInfo/447/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/447/show_workshop).

29–July 4 **IWASAWA 2008**, Kloster Irsee, Germany. (Jun/Jul 2007, p. 784)

29–July 4 **The 8th Brauer Group Meeting, in honor of Adrian Wadsworth's 60th Birthday**, Colorado State University's Pingree Park Campus and Conference Center, Pingree Park, Colorado. (Apr. 2008, p. 524)

30–July 3 **Analysis, PDEs and Applications. On the occasion of the 70th birthday of Vladimir Maz'ya**, INDAM (Istituto Nazionale di Alta Matematica “Francesco Severi”) - Università degli Studi di Roma “La Sapienza”, Roma, Italy. (Dec. 2007, p. 1535)

30–July 3 **10th International Conference on P-Adic and Non-Archimedean Analysis**, Michigan State University, East Lansing, Michigan. (Jan. 2008, p. 77)

30–July 4 **ICMI/IASE Study: Statistics Education in School Mathematics: Challenges for Teaching and Teacher Education**, ITESM, Monterrey, Mexico. (Dec. 2006, p. 1381)

30–July 4 **The European Consortium of Mathematics in Industry**, University College, London, United Kingdom. (Apr. 2008, p. 524)

30–July 5 **HOCAT 2008: Homotopy Structures in Geometry and Algebra; Derived Categories, Higher Categories**, Universitat Politècnica de Catalunya, Barcelona, Spain. (Dec. 2007, p. 1535)

30–July 5 **International Conference in Algebraic Geometry**, IMAR Bucharest, Romania. (May 2008, p. 632)

30–July 5 **Workshop on Integrable Quantum Systems and Solvable Statistical Mechanical Models**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jan. 2008, p. 77)

30–July 25 **UA VIGRE: Arizona Summer Program 2008 on Computational Group Theory**, Department of Mathematics, University of Arizona, Tucson, Arizona. (Mar. 2008, p. 411)

## July 2008

\* 1–4 **15th Workshop on Logic, Language, Information and Computation (WoLLIC 2008)**, School of Mathematical and Computer Sciences, Heriot-Watt University, Edinburgh, Scotland.

**Description:** WoLLIC is an annual international forum on interdisciplinary research involving formal logic, computing and programming theory, and natural language and reasoning. Each meeting includes invited talks and tutorials as well as contributed papers. Contributions are invited on all pertinent subjects, with particular interest in cross-disciplinary topics. Typical but not exclusive areas of interest are: foundations of computing and programming; novel

computation models and paradigms; broad notions of proof and belief; formal methods in software and hardware development; logical approach to natural language and reasoning; logics of programs, actions and resources; foundational aspects of information organization, search, flow, sharing, and protection.

**Sponsors:** ASL, IGPL, FoLLI, EATCS, SBC, and SBL.

**Information:** <http://wollic.org/wollic2008>; email: ruy@cin.ufpe.br.

2–4 **The 2008 International Conference of Applied and Engineering Mathematics (ICAEM 2008)**, Imperial College London, London, United Kingdom. (Nov. 2007, p. 1404)

2–11 **S3CM: Soria Summer School on Computational Mathematics: “Algebraic Coding Theory”**, Campus “Duques de Soria”, Universidad de Valladolid, Soria, Spain. (Feb. 2008, p. 306)

3–5 **8th Conference on Logic and the Foundations of Game and Decision Theory (LOFT 2008)**, Universiteit van Amsterdam, Amsterdam, The Netherlands. (Feb. 2008, p. 306)

3–8 **22nd International Conference on Operator Theory**, West University of Timisoara, Timisoara, Romania. (Jan. 2008, p. 77)

6–19 **38th International Probability Summer School**, Saint-Flour, France. (Feb. 2008, p. 306)

7–9 **I Latin-American Workshop on Optimization and Control**, Escuela Politécnica Nacional, Quito, Ecuador. (Mar. 2008, p. 411)

7–9 **SIAM Conference on Imaging Science (IS08)**, Town & Country Resort and Convention Center, San Diego, California. (Nov. 2007, p. 1405)

7–10 **International Conference on Artificial Intelligence and Pattern Recognition (AIPR-08)**, Orlando, Florida. (Apr. 2008, p. 524)

7–10 **International Conference on Automation, Robotics and Control Systems (ARCS-08)**, Orlando, Florida. (May 2008, p. 632)

7–10 **International Conference on Bioinformatics, Computational Biology, Genomics and Chemoinformatics (BCBGC-08)**, Orlando, Florida. (May 2008, p. 632)

7–10 **International Conference on Enterprise Information Systems and Web Technologies (EISWT-08)**, Orlando, Florida. (May 2008, p. 632)

7–10 **International Conference on High Performance Computing, Networking and Communication Systems (HPCNCS-08)**, Orlando, Florida. (May 2008, p. 632)

7–10 **International Conference on Software Engineering Theory and Practice (SETP-08)**, Orlando, Florida. (May 2008, p. 632)

7–10 **International Conference on Theoretical and Mathematical Foundations of Computer Science (TMFCS-08)**, Orlando, Florida. (May 2008, p. 632)

7–10 **The Tenth International Conference on Integral Methods in Science and Engineering**, University of Cantabria, Santander, Spain. (May 2008, p. 632)

\* 7–11 **Algebraic Topological Methods in Computer Science**, Paris 7 Chevaleret, Paris, France.

**Description:** Recent research has shown that techniques from algebraic topology adapt strikingly well in studying computational systems and other subjects within Computer Science. This third ATMCS conference hopes to bring together researchers employing geometric/topological methods in both abstract and concrete areas of computer science. The week long conference will feature some invited talks, several accepted talks, a poster session, and countless opportunities for informal collaboration; we plan to publish our proceedings in a refereed journal, pending approval. All authors submitting an abstract by the deadline will have an opportunity, at the least, to present a (refereed) poster at the poster session. Areas of interest include, but are not limited to, concurrency theory,

distributed computing and complexity, rewriting systems, image analysis, and sensor networks.

**Information:** email: sanjeevi.krishnan@gmail.com; <http://www.lix.polytechnique.fr/~sanjeevi/atmcs/>.

7–11 **International Conference on Vertex Operator Algebras and Related Areas on the Occasion of Geoffrey Mason 60th Birthday**, Department of Mathematics, Illinois State University, Normal, Illinois. (May 2008, p. 633)

7–11 **Poisson 2008: Poisson Geometry in Mathematics and Physics**, Centre Interfacultaire Bernoulli (CIB) EPFL École Polytechnique Fédérale de Lausanne, Switzerland. (Jan. 2008, p. 77)

\* 7–11 **Set Theory, Topology, and Banach Spaces**, Kielce, Poland.

**Description:** Second international conference devoted to set theory, topology, and theory of Banach spaces. In the recent years one can observe increased interaction between some subfields of set theory, general topology, and functional analysis. Set theory provides new combinatorial techniques and additional axioms which allows us to answer otherwise undecidable problems. Functional analysis provides motivations for new topological concepts. And general topology provides classical techniques like inverse spectra, Stone duality, which are successfully applied in new contexts defined by problems from Banach space theory. The aim of the conference is to bring together specialists from these three areas as well as all researchers and graduate students who want to learn or already work on the subject.

**Information:** <http://www.pu.kielce.pl/~topoconf/>.

7–11 **Spring Meeting of the Swiss Mathematical Society: Conference on Complex Analysis 2008–In honour of Linda Rothschild**, University of Fribourg, Switzerland. (Nov. 2007, p. 1405)

7–11 **VIII International Colloquium on Differential Geometry (E. Vidal Abascal Centennial Congress)** (Sept. 2007, p. 1076), Santiago de Compostela, Spain.

7–12 **Conference on “Modules and Representation Theory”**, Babes-bolyai University, Cluj- napoca, Romania. (Jan. 2008, p. 77)

8–11 **Algebraic Aspects of Association Schemes and Scheme Rings**, University of Regina, Regina, Saskatchewan, Canada. (Mar. 2008, p. 411)

8–11 **Riemannian Geometry and Applications-RIGA 2008**, University Transilvania of Brasov, Brasov, Romania. (Mar. 2008, p. 411)

9–13 **NSF-CBMS Conference: Knots and Topological Quantum Computing**, University of Central Oklahoma, Edmond, Oklahoma. (Feb. 2008, p. 307)

10–11 **Symposium in honor of Kiyosi Itô: Stochastic Analysis and Its impact in Mathematics and Science**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (May 2008, p. 633)

13–16 **CTAC08: The 14th Biennial Computational Techniques and Applications Conference**, Australian National University, Canberra, ACT, Australia. (Nov. 2007, p. 1405)

14–17 **Random Matrix Theory and Wireless Communication**, Boulder, Colorado. (Dec. 2007, p. 1535)

14–18 **5th European Congress of Mathematics**, Amsterdam, the Netherlands. (Feb. 2007, p. 308)

14–18 **Efficient Monte Carlo: From Variance Reduction to Combinatorial Optimization. A Conference on the Occasion of R. Y. Rubinstein’s 70th Birthday**, Sandbjerg Estate, Sønderborg, Denmark. (Feb. 2008, p. 307)

14–25 **IPAM/CCB Summer School: Mathematics in Brain Imaging**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Feb. 2008, p. 307)

14–December 19 **Mathematics and Physics of Anderson Localization: 50 Years After**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Jun/Jul. 2006, p. 714)

16–18 **60 Miles: A meeting to celebrate Miles Reid's sixtieth birthday**, LMS and University College, London, United Kingdom. (Jan. 2008, p. 77)

16–18 **Numerical Mathematics for Engineering Problems (NMEP)**, São Paulo, Brazil. (Apr. 2008, p. 524)

17–August 1 **XI Edition of the Italian Diffiety School**, Santo Stefano del Sole (Avellino), Italy. (May 2008, p. 633)

18–20 **International Conference on Power Control and Optimization**, Chiang Mai Plaza Hotel, 92 Sridonchai Road, Chiang Mai 50100, Thailand. (May 2008, p. 633)

21–23 **19th Postgraduate Combinatorial Conference**, Centre for Discrete Mathematics and its Applications (DIMAP), University of Warwick, Coventry, CV4 7AL, United Kingdom. (May 2008, p. 633)

21–25 **Fourteenth International Conference of Difference Equations and Applications**, Besiktas Campus of Bahcesehir University on the European shore of the Bosphorus in Istanbul, Turkey. (Feb. 2008, p. 307)

21–25 **Operator Structures and Dynamical Systems**, Lorentz Center, Leiden, The Netherlands. (Mar. 2008, p. 411)

\*21–25 **Summer School in Dynamical Systems**, University of Coimbra, Portugal.

**Description:** The Summer School is a joint venture of Centro Internacional de Matemática (CIM), and the University of Coimbra (UC), and is sponsored by the Gulbenkian Foundation and the Foundation for Science and Technology (FCT). It will gather a group of specialists working on Dynamical Systems and Ergodic Theory, and will highlight emerging trends and issues of main research topics.

**Information:** <http://www.cim.pt/sds08/>; email: [jfalves@fc.up.pt](mailto:jfalves@fc.up.pt).

21–August 8 **Summer Course on Multiscale Modeling and Analysis**, University of Texas at Austin, Austin, Texas. (May 2008, p. 633)

22–26 **International Workshop on Operator Theory and its Applications (IWOTA)**, College of William and Mary, Williamsburg, Virginia. (Feb. 2007, p. 308)

22–26 **Noncommutative Structures in Mathematics and Physics**, Brussels, Belgium. (Dec. 2007, p. 1535)

24–26 **Current Trends and Challenges in Model Selection and Related Areas**, University of Vienna, Vienna, Austria. (Dec. 2007, p. 1535)

25–31 **15th International Mathematics Competition for University Students**, Blagoevgrad, Bulgaria. (Apr. 2008, p. 525)

\*28–August 1 **Brazilian Topology Meeting: Encontro Brasileiro de Topologia**, Federal University of São Carlos (UFSCar), São Carlos, Brazil.

**Description:** This is the 16th Brazilian Topology Meeting, an event which takes place every two years. It brings together many Brazilian topologists, as well as a number of international participants.

**Scientific Committee:** Daciberg Lima Gonçalves (IME-USP, Brazil); Derek Hacon (PUC, Rio de Janeiro, Brazil); John Guaschi (Université de Caen, France); Nathan Moreira dos Santos (UFF, Niterói, Brazil); Peter Zvengrowski (University of Calgary, Canada); Peter Wong (Bates College, Lewiston, EUA).

**Three mini-courses will be given:** Twisted K-theory by Prof. Max Karoubi (Paris 7, Denis Diderot); Locally-free actions of the affine group by Nathan Moreira dos Santos (UFF); Lie groups and homogeneous space (in Portuguese), by Fernanda Cardona (IME, USP). In addition, there will be a number of talks of 30 and 50 minutes by the participants of the meeting.

**Information:** email: [daniel@dm.ufscar.br](mailto:daniel@dm.ufscar.br); <http://www.dm.ufscar.br/~ebt2008>.

28–August 1 **Generalizing theta correspondences**, American Institute of Mathematics, Palo Alto, California. (Apr. 2008, p. 525)

28–September 21 **Mathematical Horizons for Quantum Physics**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (May 2008, p. 633)

## August 2008

1–3 **Jairo Charris Seminar in Algebra and Analysis 2008: SJCH 2008**, Universidad Sergio Arboleda, Bogotá, Colombia. (May 2008, p. 633)

4–7 **SIAM Conference on the Life Sciences**, Hyatt Regency Montreal, Montreal, Quebec, Canada. (Jan. 2008, p. 78)

4–9 **Workshop on Stochastic Loewner Evolution and Scaling Limits**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Mar. 2008, p. 411)

4–15 **20th European Summer School for Logic, Language and Information (ESSLLI 2008)**, Universität Hamburg, Freie und Hansestadt, Hamburg, Germany. (Feb. 2008, p. 307)

4–18 **ESSLLI 2008 Student Session**, Hamburg, Germany. (Feb. 2008, p. 307)

5–9 **Building Bridges**, Renyi Institute of Mathematics, Budapest, Hungary. (Feb. 2008, p. 307)

\*5–9 **Northwest Dynamics Symposium**, University of Victoria, Victoria BC, Canada.

**Description:** The Symposium is supported by the Pacific Institute for the Mathematical Sciences. As part of this year's meeting, we plan to celebrate the 65th birthday of Karl Petersen of the University of North Carolina. We gratefully acknowledge additional support from the University of North Carolina in their contribution to the NWDS 2008 conference.

**Organizing Committee:** Anthony Quas, University of Victoria, email: [aquas@uvic.ca](mailto:aquas@uvic.ca); James T. Campbell, University of Memphis, email: [jcampb11@memphis.edu](mailto:jcampb11@memphis.edu); Brian Marcus, University of BC, email: [Marcus@math.ubc.ca](mailto:Marcus@math.ubc.ca); Mate Wierdl, University of Memphis, email: [mw@csi.hu](mailto:mw@csi.hu).

**Information:** email: [pims@math.uvic.ca](mailto:pims@math.uvic.ca); <http://pims.math.ca/science/2008/08nwds/index.html>.

11–15 **Fete of Combinatorics and Computer Science**, Keszthely, Lake Balaton, Hungary. (Feb. 2008, p. 307)

\*11–15 **Low Dimensional Topology**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** In recent years, there has been exciting progress in the following three branches of low-dimensional topology: Heegard Floer Homology, 4-Dimensional Manifolds, and Khovanov Homology. The format of this workshop will be three one-hour lectures every day, most likely one on each topic. The first day will consist of introductions to these areas; later talks will be given by experts in the areas who can explain the most recent developments. There will be time for discussions in the hope that participants will interact intensely.

**Organizers:** Elisenda Grigsby, Rob Schneiderman, Peter Teichner, and Kevin Walker.

**Information:** email: [jz@msri.org](mailto:jz@msri.org); [http://www.msri.org/calendar/workshops/WorkshopInfo/441/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/441/show_workshop).

\*11–22 **Second Symposium on Scattering and Spectral Theory**, Recife and Serrambi, Pernambuco, Brazil.

**Description:** The first week of the symposium, August 11–15, will be held at the Mathematics Department of the Federal University of Pernambuco and will consist of five mini courses. The second week of the symposium, August 18–22, will be held at the Venta Club Serrambi and will consist of plenary talks by invited speakers and

short talks by junior scientists. The organizers invite applications from junior researchers (Ph.D. degree no earlier than 2003) and graduate students for financial support. Prospective applicants should contact the organizers ASAP.

**Information:** email: stefanov@math.purdue.edu; <http://www.math.purdue.edu/~sabarre/Serrambi/serrambi.html>.

\* 12–December 19 **Analysis of Singular Spaces**, Mathematical Sciences Research Institute, Berkeley, California.

**Organizers:** Gilles Carron, Eugenie Hunsicker, Richard Melrose, Michael Taylor, Andras Vasy, Jared Wunsch.

**Description:** This is a semester-long research program that will also offer three workshops: Broader Connections: Analysis of Singular Spaces, August 28, 2008, to August 29, 2008; Introductory Workshop on Analysis of Singular Spaces, September 2, 2008, to September 5, 2008; and Elliptic and Hyperbolic Equations on Singular Spaces October 27, 2008, to October 31, 2008.

**Information:** [http://www.msri.org/calendar/programs/ProgramInfo/250/show\\_program](http://www.msri.org/calendar/programs/ProgramInfo/250/show_program).

14–19 **International Conference on Complex Analysis and Related Topics (The XIth Romanian-Finnish Seminar)**, University of Alba Iulia, Romania. (May 2008, p. 634)

18–22 **Frames for the finite world: Sampling, coding and quantization**, American Institute of Mathematics, Palo Alto, California. (Apr. 2008, p. 525)

18–22 **International Conference on Ring and Module Theory**, Hacettepe University, Ankara, Turkey. (Feb. 2008, p. 308)

18–23 **Workshop on Laplacian Growth and Related Topics**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jan. 2008, p. 78)

\* 18–December 19 **Ergodic Theory and Additive Combinatorics**, Mathematical Sciences Research Institute, Berkeley, California.

**Organizers:** Ben Green, Bryna Kra, Emmanuel Lesigne, Anthony Quas, Mate Wierdl.

**Description:** A difficulty facing researchers in this area is the need to be fluent in several fields of mathematics: number theory, ergodic theory, combinatorics, and harmonic analysis. A few of the leading researchers are already able to use tools from the various fields and pass from one field to another with ease. A systematic survey of the fields benefits a wider audience. This semester-long program brings together researchers in ergodic theory, harmonic analysis, number theory, and combinatorics who are interested in similar problems from very different perspectives. While the main theme of the program is ergodic theory (and in this it differs from other similar proposed programs), we plan to highlight the unity between ergodic theory and these related areas; we welcome researchers in any of these areas.

**Information:** [http://www.msri.org/calendar/programs/ProgramInfo/252/show\\_program](http://www.msri.org/calendar/programs/ProgramInfo/252/show_program).

19–22 **Duality and Involutions in Representation Theory**, National University of Ireland, Maynooth, Co. Kildare, Ireland. (Nov. 2007, p. 1405)

\* 21–22 **Broader Connections: Ergodic Theory and Additive Combinatorics**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** This two day workshop will feature expository talks on ergodic theory and additive combinatorics, aimed at advanced graduate students and new postdocs in these fields. An effort will be made to highlight the recent interactions between the fields.

**Lectures:** Two lectures each will be delivered by the following speakers: V. Bergelson, I. Laba, A. Venkatesh, T. Ziegler. Female researchers are particularly encouraged to attend this workshop and will be given priority for support of travel and lodging expenses.

**Organizers:** Ben Green, Bryna Kra, Emmanuel Lesigne, Anthony Quas, Mate Wierdl.

**Information:** email: [jz@msri.org](mailto:jz@msri.org); [http://www.msri.org/calendar/workshops/WorkshopInfo/438/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/438/show_workshop).

\* 21–22 **DIMACS Workshop on Computational Issues in Genetic Epidemiology**, DIMACS Center, CoRE Building, Rutgers University, Piscataway, New Jersey.

**Description:** There is strong evidence that genes play a major role in susceptibility to all common human diseases. While linkage analysis has been very successful in finding the genes involved in Mendelian diseases such as Huntington disease, early onset Alzheimer's disease and cystic fibrosis, current interest has shifted towards mapping genes involved in diseases with complex etiologies such as diabetes and cancer, for which association studies have been shown to be more powerful. The workshop will bring together computer scientists, geneticists, and statisticians aiming to address current computational challenges in gene mapping, which include dealing with complex missing data patterns, multiple hypotheses testing, population substructure, gene-gene and gene-environment interactions. New directions of research, such as capturing the effects of structural genomic variation and using biological networks in whole-genome studies, will also be investigated.

**Organizers:** Andrew Scott Allen, Duke University, [andrew.s.allen@duke.edu](mailto:andrew.s.allen@duke.edu); Ion Mandoiu, University of Connecticut, [ion@enr.uconn.edu](mailto:ion@enr.uconn.edu); Dan Nicolae, University of Chicago, [nicolae@galton.uchicago.edu](mailto:nicolae@galton.uchicago.edu); Yi Pan, Georgia State University, [pan@cs.gsu.edu](mailto:pan@cs.gsu.edu); Alex Zelikovsky, Georgia State University, [alexz@cs.gsu.edu](mailto:alexz@cs.gsu.edu).

**Information:** email: [workshop@dimacs.rutgers.edu](mailto:workshop@dimacs.rutgers.edu); <http://dimacs.rutgers.edu/Workshops/ComputationalIssues/>.

21–23 **20th International Congress of Jangjeon Mathematical Society**, Uludag University, Bursa, Turkey. (Apr. 2008, p. 525)

21–26 **6th Bolyai-Gauss-Lobachevsky Conference: International conference on the non-euclidean geometry and its applications in modern physics**, University of Debrecen, Debrecen, Hungary. (Mar. 2008, p. 412)

22–29 **Function Spaces, Differential Operators and Nonlinear Analysis**, University of Helsinki, Helsinki, Finland. (Apr. 2008, p. 525)

\* 24–26 **9th International Pure Mathematics Conference 2008**, Islamabad, Pakistan.

**Description:** The 9th International Pure Mathematics Conference 2008 (9th IPMC 2008) is the 9th international conference in the series of Pure Mathematics Conferences that take place in Islamabad every year in August. It is a thematic conference on Algebra, Geometry, and Analysis held under the auspices of the Pakistan Mathematical Society (<http://www.pakms.org.pk>). There will be free housing for foreign participants. Some travel grants are available for foreign speakers.

**Information for registration:** Please fill in the on-line registration form at <http://www.pmc.org.pk> and find more information therein. The conference is convened by Qaiser Mushtaq (Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan) in collaboration with Mathematics Division, Institute of Basic Research (Florida, USA), Higher Education Commission, Pakistan Science Foundation, Preston University and Quaid-i-Azam University, Islamabad.

24–27 **39th Annual Iranian Mathematics Conference (AIMC39)**, Department of Mathematics, Shahid Bahonar University of Kerman, Kerman, Iran. (May 2008, p. 634)

25–29 **Dynamics Days Europe 2008**, TU Delft, The Netherlands. (Feb. 2008, p. 308)

25–29 **International Conference Approximation & Computation**, Faculty of Electronic Engineering, University of Nis, Nis, Serbia. (Feb. 2008, p. 308)

25–29 **Geometry and Analysis**, Royal Institute of Technology, Stockholm, Sweden. (Dec. 2007, p. 1536)

\* 25–29 **Introduction to Ergodic Theory and Additive Combinatorics**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** The theme of this workshop is the interplay between recurrence in ergodic theory and additive combinatorics. In addition to the now classical results on the existence of arithmetic progressions in large sets, we focus on the parallels among the ergodic theoretical, harmonic analytical and combinatorial methods. During the workshop, we plan several minicourses, including the following topics: recurrence in ergodic theory, correspondence principle, nilsystems in ergodic theory, and existence of arithmetic progressions in primes.

**Speakers and topics for minicourses:** H. Furstenberg: Recurrence in Ergodic Theory; B. Green: Progressions in Primes; B. Host: Dynamical Systems on Nilmanifolds; T. Tao: Correspondence Principle and Finitary Ergodic Theory.

**Organizers:** Ben Green, Bryna Kra, Emmanuel Lesigne, Anthony Quas, Mate Wierdl.

**Information:** email: jz@msri.org; [http://www.msri.org/calendar/workshops/WorkshopInfo/439/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/439/show_workshop).

25–30 **Workshop on Random Matrices, Related Topics and Applications**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jan. 2008, p. 78)

\* 26–28 **The 33rd Sapporo Symposium on Partial Differential Equations**, 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 by April 30, 2008. For details: [http://www.math.sci.hokudai.ac.jp/sympo/sapporo/program\\_en.html](http://www.math.sci.hokudai.ac.jp/sympo/sapporo/program_en.html).

26–December 19 **The Nature of High Reynolds Number Turbulence**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Jun/Jul. 2006, p. 714)

\* 27–29 **Workshop on Probability and Dynamics in Honour of Pierre Collet's 60th Birthday**, Center for Mathematical Modeling (CMM), Universidad de Chile, Santiago, Chile.

**Topics:** The workshop will cover topics in random processes, ergodic theory and probabilistic algorithms and we look forward to seeing the latest developments in these areas.

**Information:** <http://www.cmm.uchile.cl>.

\* 28–29 **Broader Connections: Analysis of Singular Spaces**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** This two-day program will consist of a “crash course” in topics in PDE relevant to the Analysis of Singular Spaces main program, and in particular will attempt to get graduate students, postdocs, and even advanced undergraduates ready for the Introductory Workshop the following week. The focus will be topics in analysis on smooth manifolds whose generalizations to singular spaces will be the focus of the main program. Female researchers are particularly encouraged to attend this workshop and will be given priority for support of travel and lodging expenses.

**Organizers:** Gilles Carron, Eugénie Hunsicker, Richard Melrose, Michael Taylor, Andras Vasy, and Jared Wunsch.

**Information:** email: jz@msri.org; [http://www.msri.org/calendar/workshops/WorkshopInfo/442/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/442/show_workshop).

28–September 2 **12th Serbian Mathematical Congress**, Faculty of Science and Mathematics, University of Novi Sad, Serbia. (Apr. 2008, p. 525)

31–September 6 **Summer School on General Algebra and Ordered Sets**, Trest, Czech Republic. (May 2008, p. 634)

## September 2008

\* 1–5 **Combinatorics and Representation Theory (The 8th International Conference by the Graduate School of Mathematics, Nagoya University)**, Graduate School of Mathematics, Nagoya University, Nagoya, Japan.

**Description:** The main theme is combinatorics and representation theory, and we will emphasize their interactions and their connections to other fields such as mathematical physics, probability theory, geometry, etc. Invited speakers: Francesco Brenti, Vyjayanthi Chari, Philippe Di Francesco, Takeshi Ikeda, Masao Ishikawa, Noriaki Kawanaka, Rinat Kedem, Ronald C. King, Anatol N. Kirillov, Alexander Kleshchev, Atsuo Kuniba, Thomas Lam, Cedric Lecouvey, Sho Matsumoto, Jorn B. Olsson, Arun Ram, Piotr Sniady, John Stembridge, Takeshi Suzuki.

**Organizers and Information:** Soichi Okada (Chair), Akihito Hora, Hiroyuki Ochiai, Masato Okado, Hiro-Fumi Yamada. <http://www.math.nagoya-u.ac.jp/en/research/conference/2008/nagoya.html>.

1–5 **Conference in Numerical Analysis (NumAn 2008) recent approaches to numerical analysis: Theory, methods and applications honoring Richard S. Varga on his 80th birthday**, Kalamata, Greece. (Feb. 2008, p. 308)

\* 1–5 **Summer School on Functional Analytic Methods in PDEs**, Leibniz University Hannover, Hannover, Germany.

**Description:** The Summer School is devoted to recent developments in the field of functional analytic methods in partial differential equations. This school addresses young scholars working toward a master or Ph.D. degree. Distinguished experts will each give three talks on new research results and the underlying mathematical methods and techniques.

**Topics:** Include nonlinear evolutions, maximal regularity, H-infinity calculus, pseudodifferential operators, moving boundaries, and weak compactness methods.

**Organizers:** Christoph Walker, Jörg Seiler, Elmar Schrohe, Joachim Escher.

**Speakers:** Dieter Bothe, Adrian Constantin, Robert Denk, Giovanni Dore, Joachim Escher, Philippe Laurecot, Elmar Schrohe, Lutz Weis.

**Information:** <http://www.math-conf.uni-hannover.de/pde08>; email: walker@ifam.uni-hannover.de.

\* 1–6 **School (and Workshop) on the Geometry of Algebraic Stacks**, Fondazione Bruno Kessler-IRST, Povo, Trento, Italy.

**Description:** The meeting is articulated in a School and in a Workshop. The school will give the students and young researchers the opportunity of learning the subject from experts in the area. Professors B. Fantechi (SISSA Trieste) and A. Kresch (Zuerich) will deliver a short course of five lessons of one hour-and-a-half on the subject. Dr. E. Mann (SISSA Trieste) will deliver some exercises and complements classes coordinating himself with Professors Fantechi and Kresch. The workshop on the state of art gives the opportunity to senior researchers to compare each other.

**Confirmed invited speakers are:** F. Catanese (Bayreuth), G. Farkas (Berlin), E. Sernesi (Roma Tre), A. Verra (Roma Tre), A. Vistoli (Pisa). **Scientific Organizers:** G. Casnati, C. Fontanari, R. Notari, M.L. Spreafico (Torino).

**Information:** <http://calvino.polito.it/~geometri/2008-1.htm>; email: michelet@science.unitn.it.

1–6 **Workshop on Random Tilings, Random Partitions and Stochastic Growth Processes**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jan. 2008, p. 78)

1–12 **School on Algebraic Topics of Automata**, Complexo Interdisciplinar da Universidade de Lisboa Av. Prof. Gama Pinto, 2

1649-003, Lisboa, Portugal. (May 2008, p. 634)

**2-4 2008 MBI Workshop for Young Researchers in Mathematical Biology (WYRMB)**, Mathematical Biosciences Institute, The Ohio State University, Columbus, Ohio. (May 2008, p. 634)

\* **2-5 Introductory Workshop on Analysis of Singular Spaces**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** This four-day program will be an introduction to the main themes of the analysis of singular spaces program, geared toward graduate students and postdocs. It will consist of several minicourses, covering topics in spectral and scattering theory, index theory, and  $L^2$ -cohomology, as well as developing the technical tools needed as background.

**Organizers:** Gilles Carron, Eugénie Hunsicker, Richard Melrose, Michael Taylor, Andras Vasy and Jared Wunsch.

**Information:** [http://www.msri.org/calendar/workshops/WorkshopInfo/443/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/443/show_workshop).

**2-5 X Spanish Meeting on Cryptology and Information Security (X RECSI)**, Hospederia Fonseca, Salamanca, Spain. (Dec. 2007, p. 1536)

\* **2-7 International Conference "Geometry, Dynamics, Integrable Systems"**, Mathematical Institute SANU, Belgrade, Serbia.

**Description:** The International Conference "Geometry, Dynamics, Integrable Systems" will be held under the auspices of the Mathematical Institute SANU (Belgrade), V.A. Steklov Mathematical Institute RAS (Moscow), and "Regular and Chaotic Dynamics" journal.

**Goal:** To bring together the best scientists to intensify the exchange of experience, methods and ideas, and encourage collaboration among diverse groups in community. In order to achieve an effective communication between participants the number of active participants will be limited. Anticipated attendance of the meeting is approximately 50 persons.

**Topics:** Main topics of the meeting: Integrable systems in classical mechanics; Nonholonomic mechanics; Rigid body dynamics; Lie algebras and Lax representation; Separation of variables.

**Organizers:** The organizers of the conference are V. V. Kozlov, A. V. Borisov and V. Dragovic.

**Information:** <http://www.mi.sanu.ac.yu/~gdis08/>.

\* **3-6 Fifth International Workshop on Numerical Analysis and Lattice QCD**, University of Regensburg, Regensburg, Germany.

**Description:** The aim of this workshop is to bring together applied mathematicians and theoretical physicists to stimulate the exchange of ideas between leading experts in the fields of lattice QCD and numerical analysis. The algorithms used for QCD computations have been growing in sophistication over the years, making use of mathematical methods including stochastic processes, linear algebra, approximation theory, multi-scale techniques, and symplectic integrators. The interplay between physicists and mathematicians has become more valuable as the level of sophistication increases, with both sides contributing innovative and powerful new approaches.

**Information:** <http://www.homepages.uni-regensburg.de/~blj05290/qcdna08>.

\* **3-6 XVII International Fall Workshop on Geometry and Physics**, CIEM Centro Internacional de Encuentros Matemáticos, Castro Urdiales, Cantabria, Spain.

**Description:** The Fall Workshops on Geometry and Physics have been held yearly since 1992, and bring together Spanish and Portuguese geometers and physicists, along with an ever increasing number of participants from outside the Iberian peninsula. The main topics of the meeting are: Lie algebroids and mechanics, Lorentz and Poisson geometries, Riemannian geometry, symplectic and contact geometries, mechanics of continuous media, quantum mechanics, relativity, supergravity and supersymmetry, integrable systems, control theory, classical theory of fields, and string theory.

**Information:** email: [fioravam@unican.es](mailto:fioravam@unican.es); <http://www.ciem.unican.es/encuentros/ifwgp08/index.html>.

\* **3-9 10th International Congress on Algebraic Hyperstructures and its Applications AHA 2008**, University of Defence, Brno, Czech Republic.

**Description:** This congress follows the previous AHA, which were held in Iran (Babolsar 2005), Greece (Samotraki 2002, Xanthi 1990), Italy (Taormina 1978, 1983, 1999, Udine 1985), Taomania (Iasi 1993) and Czech Republic (Prague 1996). Union of Czech Mathematicians and Physicists will organize this congress with the collaboration of the University of Defence. AHA 2008 aims to provide a forum for researchers and practitioners to present their work and to exchange their views on developments and future directions.

**Topics:** Hypergroupoids, Semi-hypergroups, hypergroups, hyper-rings, hyperfields, hypermodules, hyperspaces, hyperalgebras, hv-structures, non-associative and feebly associative hypergroups, join spaces, hyperstructures associated to geometric spaces, ordered hyperstructures, fuzzy algebraic hyperstructures, (Fuzzy) BCK-algebras, hypergraphs. generalizations and applications.

**Information:** <http://www.unob.cz/en/veda.aspx?id=1829>; email: [aha2008@seznam.cz](mailto:aha2008@seznam.cz).

**8-10 Calculus of Variations and Its Applications From Engineering to Economy**, Departamento de Matemática Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa Caparica, Portugal. (May 2008, p. 634)

**8-11 Logic, Algebra and Truth Degrees**, College Santa Chiara, Siena, Italy. (Mar. 2008, p. 412)

**8-12 International Workshop on Orthogonal Polynomials and Approximation Theory 2008. Conference in honor of professor Guillermo López Lagomasino in his 60th Anniversary**, Universidad Carlos III de Madrid, Madrid, Spain. (Apr. 2008, p. 525)

**8-12 Long Program: Internet Multi-Resolution Analysis: Foundations, Applications and Practice**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Feb. 2008, p. 308)

\* **8-12 Topology of Stratified Spaces**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** This workshop will bring together researchers interested in the topology of stratified spaces. It will focus roughly on four topics: topology of complex varieties, signature theory on singular spaces, and intersection cohomology, and mixed Hodge theory and singularities. Aside from talks on current research, there will be a series of introductory lectures on these themes. These talks will be aimed at strengthening the connections among the various topology research groups and the connections between topology researchers and researchers at the program on Analysis of Singular Spaces, running concurrently.

**Organizers:** Greg Friedman, Eugénie Hunsicker, Anatoly Libgober, and Laurentiu Maxim.

**Information:** email: [jz@msri.org](mailto:jz@msri.org); [http://www.msri.org/calendar/workshops/WorkshopInfo/469/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/469/show_workshop).

**10 Nonlinear Differential Equations, A Tribute to the work of Patrick Habets & Jean Mawhin on the occasion of their 65th birthdays**, Académie Royale de Belgique, Brussels, Belgium. (Mar. 2008, p. 412)

\* **11-13 Ricci flow in Mathematics and in Physics**, Institut de Recherche Mathématique Avancée (Université Louis Pasteur), Strasbourg, France.

**Description:** Ricci Flow in Mathematics and in Physics.

**Organizers:** Vincent Maillot and Athanase Papadopoulos.

**List of speakers:** G. Besson (Grenoble), M. Carfora (Pavia), D. Friedan (Rutgers U.), W. Graf (Wien), J. Keller (Marseille), F. Luo (Rutgers U.), P. Topping (Warwick), B. Wilking (Muenster).

**Information:** Financial support for speakers. For more information please visit: <http://www-irma.u-strasbg.fr/article678.html>; email: [papadop@math.u-strasbg.fr](mailto:papadop@math.u-strasbg.fr).

13 **63rd Algebra Day**, Carleton University, Ottawa, Canada. (May 2008, p. 634)

15–18 **Information Security Conference 2008 (ISC 2008)**, Taipei, Taiwan. (Mar. 2008, p. 412)

\* 15–19 **International Conference on K-Theory and Homotopy Theory**, Universidad de Santiago de Compostela, Santiago de Compostela, Spain.

**Description:** Proceedings of the conference will be published in *Journal of Homotopy and Related Structures* (<http://rmi.acnet.ge/jhrs/>).

**Organizers:** Nick Inassaridze (A. Razmadze Math.Inst., Georgia and Univ. de Vigo, Spain), Manuel Ladra (Univ. de Santiago de Compostela, Spain).

**Scientific Committee:** Andrew Baker (Univ. of Glasgow, UK), Pilar Carrasco (Univ. de Granada, Spain), Carles Casacuberta (Univ. de Barcelona, Spain), Guillermo Cortiñas (Univ. de Buenos Aires, Argentina), Hvedri Nassaridze (A. Razmadze Math. Inst., Georgia), Ryszard Nest (Univ. of Copenhagen, Denmark), Lionel Schwartz (Univ. Paris 13, France), Aydin Shahbazov (Inst. Math. and Mech. of NAS, Azerbaijan), Rainer Vogt (Univ. Osnabrück, Germany), Charles Weibel (Rutgers University, USA).

**Important Dates:** Deadline for submission of abstracts: May 23, 2008. Deadline for answering with presentations acceptance: June 6, 2008. Deadline for submission of articles: December 31, 2008

**Information:** email: [niko.inas@gmail.com](mailto:niko.inas@gmail.com); <http://www.usc.es/regaca/ktth/>.

15–21 **Ninth Crimean Workshop on the Method of Lyapunov Functions and Its Applications**, Alushta, Crimea, Ukraine. (May 2008, p. 634)

16–19 **Conference on Boundary Value Problems: Mathematical Models in Engineering, Biology and Medicine**, University of Santiago de Compostela, Santiago de Compostela, Spain. (Feb. 2008, p. 308)

\* 16–19 **Rings and Modules, in honour of Patrick F. Smith's 65th birthday**, Complexo Interdisciplinar da Universidade de Lisboa, Portugal.

**Invited Speakers:** T. Albu (Bucharest, Romania); A. Facchini (Padova, Italy); J. L. Gómez Pardo (Santiago de Compostela, Spain); C. Hajarnavis (Warwick, UK); S. Lomp (Porto, Portugal); S. Lopez-Permouth (Ohio, USA); B. Osofsky (Rutgers, USA); D. Passman (Wisconsin-Madison, USA); M. Prest (Manchester, UK); E. Puczyłowski (Warsaw, Poland); A. Tercan (Hacettepe, Turkey); R. Wisbauer (Düsseldorf, Germany).

**Organizing Committee:** N. V. Dung (Ohio, USA); P. A. Guil Asensio (Murcia, Spain); R. J. Marsh (Leeds, UK); C. Santa-Clara (Lisboa, Portugal).

**Scientific Committee:** K. A. Brown (Glasgow, UK); J. Clark (Otago, New Zealand); J. L. Gómez Pardo (Santiago de Compostela, Spain); D. V. Huynh (Ohio, USA); B. Osofsky (Rutgers, USA); R. Wisbauer (Duesseldorf, Germany).

**Information:** The programme will also include short talks. For logistic reasons, the number of participants is limited, so please register as soon as possible. Contact the organizers at [pfs2008@cii.fc.ul.pt](mailto:pfs2008@cii.fc.ul.pt); <http://pfs2008.cii.fc.ul.pt/>.

16–20 **International Conference of Numerical Analysis and Applied Mathematics 2008 (ICNAAM 2008)–Honoring John Butcher on the occasion of his 75th birthday**, Hotel Kypriotis Village-Kypriotis Panorama-Kypriotis International Conference Center, Psalidi, Kos, Greece. (Mar. 2008, p. 413)

\* 18–20 **MTISD08: Methods, models and information technologies for decision making**, Lecce, Italy.

**Information:** <http://www.mtisd2008.unile.it>; email: [squillan@unisannio.it](mailto:squillan@unisannio.it).

19–26 **Harmonic Analysis and Approximations, IV (International Conference)**, Tsaghkadzor, Armenia. (Apr. 2008, p. 525)

21–24 **Applied Statistics 2008**, Hotel Ribno, Ribno, Slovenia. (May 2008, p. 634)

22–26 **Multiscale Representation, Analysis and Modeling of Internet Data and Measurements**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (May 2008, p. 635)

22–28 **A joint conference of 5th Annual International Conference on Voronoi Diagrams in Science and Engineering and 4th International Kyiv Conference on Analytic Number Theory and Spatial Tessellations**, Drahomanov National Pedagogical University, Kyiv, Ukraine. (Feb. 2008, p. 308)

24–27 (REVISED INFORMATION) **Vector Measures, Integration and Applications**, Katholische Universitaet Eichstaett-Ingolstadt, Eichstaett, Germany. (Feb. 2007, p. 308)

\* 26–28 **2008 Southern Regional Algebra Conference (With Recognition of the Retirement of K. M. Rangaswamy)**, University of Colorado at Colorado Springs, Colorado Springs, Colorado.

**Description:** The University of Colorado at Colorado Springs will host the 2008 Southern Regional Algebra Conference. The conference this year will in particular honor the 70th birthday and retirement of Professor K. M. Rangaswamy. We will follow the usual SRAC format of 25 minute talks. As usual, there is no financial support provided by the host institution for SRAC participants. The conference is open to all interested participants. Algebraists from the Southern Region of the United States are encouraged to attend. Talks in all areas of algebra are welcome, but especially in those areas related to Professor Rangaswamy's work. Deadline for abstracts is August 15, 2008. For more specific information visit the conference website at <http://www.uccs.edu/~math/News/RangafestMain.htm>, or contact the conference organizer, Gene Abrams, at [abrams@math.uccs.edu](mailto:abrams@math.uccs.edu) or 719-262-3182.

27–29 **Discrete Analysis and Applications (Walsh-Fourier Series, Symbolic Sequences-Complexity and Cryptography)**, Department of Informatics, Aristotle University of Thessaloniki, Thessaloniki, Greece. (Apr. 2008, p. 525)

29–October 3 **13th GAMM-IMACS International Symposium on Scientific Computing, Computer Arithmetic, and Verified Numerical Computations SCAN'2008**, El Paso, Texas. (Apr. 2008, p. 525)

29–October 4 **Workshop on Quantum Many-Body Systems, Bose-Einstein Condensation**, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. (Jan. 2008, p. 78)

## October 2008

3–5 **IIIberian Mathematical Meeting**, Departamento de Matemáticas, Universidad de Extremadura, 06071 Badajoz, Spain. (May 2008, p. 635)

4–5 **AMS Western Section Meeting**, University of British Columbia and the Pacific Institute of Mathematical Sciences, Vancouver, Canada. (Jun/Jul 2007, p. 784)

5–12 **International Conference on Differential Equations, Function Spaces, and Approximation Theory: Dedicated to the 100th anniversary of the birthday of S. L. Sobolev**, Sobolev Institute of Mathematics, Novosibirsk, Russia. (Apr. 2008, p. 525)

6–10 **Conference on Arithmetic Algebraic Geometry on the occasion of Michael Rapoport's 60th birthday**, Universitaet Bonn, Bonn, Germany. (Feb. 2008, p. 308)

9–11 **Algebra, Geometry and Mathematical Physics, Baltic-Nordic Workshop**, University of Tartu, Tartu, Estonia. (Apr. 2008, p. 526)

\* 10–11 **Twenty-Eighth Southeastern Atlantic Regional Conference on Differential Equations (SEARCADE)**, University of Arkansas at Little Rock, Little Rock, Arkansas.

**Speakers:** Martin Bohner (Missouri University of Science and Technology), Jerry Bona (University of Illinois at Chicago), Om. P. Agrawal (Southern Illinois University).

**Deadlines:** The deadline for abstracts in contributed session is September 20, 2008. The deadline for conference rates for hotels ranges from September 10, 2008, to September 30, 2008, depending on the hotel. The deadline for application for travel support is September 15, 2008.

**Information:** 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. Please visit the conference website at <http://www.ualr.edu/SEARCADE28/> for information on registration, lodging, submission of abstracts, and application for support.

**Information:** email: [erkaufmann@ualr.edu](mailto:erkaufmann@ualr.edu); <http://www.ualr.edu/SEARCADE28/>.

11–12 **AMS Eastern Section Meeting**, Wesleyan University, Middletown, Connecticut. (Jun/Jul 2007, p. 784)

11–13 **International Conference on Applied Mathematics and Approximation Theory 2008**, University of Memphis, Memphis, Tennessee. (Mar. 2008, p. 413)

13–16 **Scaling up for modeling transport and flow in porous media**, Centre for Advanced Academic Studies, Dubrovnik, Croatia. (Apr. 2008, p. 525)

17–19 **AMS Central Section Meeting**, Western Michigan University, Kalamazoo, Michigan. (Jun/Jul 2007, p. 784)

\* 18–19 **Bachman Memorial Conference**, Polytechnic University, Brooklyn, New York.

**Description:** Memorial Conference.

18–20 **The Second International Workshop on Post-Quantum Cryptography (PQCrypto 2008)**, University of Cincinnati, Cincinnati, Ohio. (May 2008, p. 635)

20–22 **International Conference on Analysis and Its Applications**, Aligarh Muslim University, Aligarh, India. (May 2008, p. 635)

22–23 **The Second Conference on Mathematical Sciences (CMS'2008)**, Department of Mathematics, Faculty of Science and Information Technology, Zarqa Private University, Zarqa 13110, Jordan. (Apr. 2008, p. 526)

22–24 **International Conference in Modeling Health Advances 2008**, San Francisco, California. (Apr. 2008, p. 526)

\* 23–25 **Second Workshop on Mathematical Cryptology (WMC 2008)**, University of Cantabria, Santander, Spain.

**Description:** There is growing interest among mathematicians and cryptographers in cryptosystems based on algebraic problems and in related cryptanalysis. The Workshop on Mathematical Cryptology (WMC 2008) is the second of a series of meetings where the main purpose is to learn and discuss recent developments and emerging open problems derived from Cryptology and having mathematical interest. Topics for WMC 2008 include, but are not limited to: Primality and integer factorization. Secure encryption schemes based on group theory. Multivariate polynomial cryptosystems. Gröbner Bases. Elliptic and hyperelliptic curve cryptosystems. Computational complexity. Lattice-based cryptosystems. Computational number theory in Cryptology. Pseudorandom sequence generators for stream ciphers. Public key cryptosystem based on

algebraic coding theory. Quantum Cryptography. Information security with mathematical emphasis. The workshop will consist of invited lectures, short contributed talks and posters.

**Information:** <http://grupos.unican.es/amac/wmc-2008>; email: [jaime.gutierrez@unican.es](mailto:jaime.gutierrez@unican.es).

24–26 **AMS Southeastern Section Meeting**, University of Alabama, Huntsville, Alabama. (Jun/Jul 2007, p. 784)

\* 27–31 **Elliptic and Hyperbolic Equations on Singular Spaces**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** This workshop will focus on the study of PDEs on singular spaces and their connections with the spaces' underlying geometry. Topics will be cohomology theory, index theory, and spectral geometry on the elliptic side; and wave propagation and associated inverse problems on the hyperbolic. A unifying theme will be asymptotic expansions of solutions in various regimes, as for instance high frequency eigenfunction expansions, which draws techniques from hyperbolic equations into the elliptic theory.

**Organizers:** Gilles Carron, Eugenie Hunsicker, Richard Melrose, Michael Taylor, Andras Vasy and Jared Wunsch.

**Information:** email: [jz@msri.org](mailto:jz@msri.org); [http://www.msri.org/calendar/workshops/WorkshopInfo/444/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/444/show_workshop).

\* 28–30 **The Second International Conference on Mathematics and Natural Sciences (ICMNS) 2008**, Institut Teknologi Bandung, Bandung, Indonesia.

**Description:** The International Conference on Mathematics and Natural Sciences (ICMNS) 2008 aims to promote interdisciplinary research in science and technology, to promote the development of science and their roles in the development of science-based technology, and to disseminate research in various field of mathematics and natural sciences. The scope of this conference is, but not limited to, in the fields of Health sciences, Environmental sciences, Biosciences and biotechnology, Physical sciences, Material sciences, Mathematics, Computer science and computational science, Instrumentation, and Earth and space sciences.

**Information:** email: [rino@math.itb.ac.id](mailto:rino@math.itb.ac.id); <http://www.fmipa.itb.ac.id/icmns2008>.

## November 2008

3–4 **International Workshop on New Trends in Science and Technology**, Cankaya University, Ankara, Turkey. (Mar. 2008, p. 413)

\* 3–7 **Discrete Rigidity Phenomena in Additive Combinatorics**, Mathematical Sciences Research Institute, Berkeley, California.

**Organizers:** Ben Green, Bryna Kra, Emmanuel Lesigne, Anthony Quas, and Mate Wierdl.

**Description:** This workshop will explore environments in which rigid structural information can be deduced from rather soft combinatorial hypotheses. There will be a particular focus on finite and quantitative questions, although an important aspect of the workshop will be to explore connections with corresponding infinite and qualitative questions in ergodic theory, where as a general rule more is known. Topics include (but are not be limited to) the following: 1. Freiman's theorem concerning the structure of sets with small doubling; 2. The Gowers Inverse Conjecture, concerning the structure of sets containing many parallelepipeds; 3. Finite versions of Ratner's theorem, concerning the structure of finite unipotent orbits in dynamical systems.

**Information:** [http://www.msri.org/calendar/workshops/WorkshopInfo/440/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/440/show_workshop).

\* 3–14 **Structural Probability**, Erwin Schrödinger International Institute for Mathematical Physics (ESI), Vienna, Austria.

**Description:** The workshop is a continuation of a series of earlier programmes at ESI: special semester "Random Walks" (2001), RD-SES/ESI Educational Workshop on Discrete Probability (2006), workshop "Algebraic, geometric and probabilistic aspects of amenability"

(2007). We plan to mostly concentrate on the following 3 areas of discrete structural probability: random walks, percolation on groups and graphs, random groups. Limited financial support is available.

**Information:** Applications (deadline: August 31) and further information: Visit <http://aesioesi.ac.at>; email: v.kaimanovich@jacobs-university.de.

5–7 **Fractional Differentiation and its Applications**, Ankara, Turkey. (Mar. 2008, p. 413)

10–12 **International Conference on Recent Trends in Mathematical Sciences**, Manama, Kingdom of Bahrain. (May 2008, p. 635)

\* 13–16 **Third International Conference on Differential Algebra and Related Topics**, Rutgers University at Newark, Newark, New Jersey.

**Description:** The Third International Conference on Differential Algebra and Related Topics (DART-III) is the third in a series of conferences after DART in 2000 and DART-II in 2007, on the subject of differential algebra and related topics. There will be sessions for contributed talks and for posters. Limited funding is available.

**Information:** email: [liguo@rutgers.edu](mailto:liguo@rutgers.edu); <http://andromeda.rutgers.edu/~liguo/DARTIII/diffalg.html>;

\* 17–21 **Analytic theory of  $GL(3)$  automorphic forms and applications**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, has the goal of providing a description of  $GL_3$  automorphic forms and their  $L$ -functions amenable to analytic number theorists and to explain the various approaches available to perform harmonic analysis on these spaces. A second objective will be to discuss the extension of some of the important tools existing in the  $GL_2$  theory to the  $GL_3$  context: a typical example is Kuznetsov's formula. A third objective will be to list some important problems known for  $GL_2$  and to identify the main obstructions to the extension of these to  $GL_3$ : typical problems are non-vanishing problems for central values of  $L$ -functions and subconvexity problem. To achieve these goals we plan to bring together analytic number theorists and specialists from the theory of automorphic forms and related fields who are interested in analytic questions.

**Information:** email: [farmer@aimath.org](mailto:farmer@aimath.org); <http://aimath.org/ARCC/workshops/g13.html>.

## 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.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to the study of nonnegative matrices and their generalizations. The goal is to make progress both in specific areas and on the global themes that unify this subject.

**Information:** email: [farmer@aimath.org](mailto:farmer@aimath.org); <http://aimath.org/ARCC/workshops/nonnegmatrix.html>.

\* 8–12 **FEMTEC 2008 (Finite Element Methods in Engineering and Science)**, University of Texas at El Paso, Texas.

**Description:** The goal of FEMTEC 2008 is to advance the frontiers in performance and reliability of finite element methods, and broaden their interdisciplinary applications in engineering and sciences.

**Topics:** Include multi-scale and multi-physics problems, model adaptivity, adaptivity and error control for stationary and nonstationary problems, higher-order methods, meshfree, generalized, and enriched methods, reliability of FEM models, sensitivity analysis and uncertainty quantification, and advanced engineering and scientific applications. FEMTEC has a single-session format with limited number of participants.

**Information:** email: [solin@utep.edu](mailto:solin@utep.edu); [http://servac.math.utep.edu/femtec\\_2008/home](http://servac.math.utep.edu/femtec_2008/home).

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.

**Description:** The recent progress in topology has shed light on many deep connections between algebraic topology and the theory of braids. A successful program on Braids was organized in May–July, 2007. This present program is going to explore further the connections between algebraic topology and braids, and to establish further research collaborations in algebraic topology in Asia. The present program will consist of a conference on algebraic topology, and a workshop on special topics. 1. The Second East Asia Conference on Algebraic Topology, December 8–12, 2008. 2. Workshop on Homotopy, Braids and Mapping Class Groups, December 13–22, 2008.

**International Organizers for conference 1:** Haibao Duan (China), Jianzhong Pan (China), Akira Kono (Japan), Norio Iwase (Japan), Yongjin Song (Korea).

**Information:** email: [imscec@nus.edu.sg](mailto:imscec@nus.edu.sg); <http://www.ims.nus.edu.sg/Programs/braids08/index.htm>.

\* 10–14 **Ninth Pacific Rim Geometry Conference**, National Taiwan University, Taipei, Taiwan.

**Description:** The Pacific Rim Geometry Conference has been held every two years since 1992, with previous meetings occurring at Murramarang, Australia (2006), Shanghai (2004), Hong Kong (2002), Sendai (2000), Vancouver (1998), Seoul (1996), Singapore (1994), and Hong Kong (1992). The main purpose of the conference is to bring together researchers from Pacific Rim countries that are interested in areas related to geometry. The conference serves as a means to disseminate the most recent research developments and to cultivate working relationships among its participants.

**Organizers:** Robert Bartnik (Monash University, Australia), Yng-Ing Lee (National Taiwan University), Chang-Shou Lin (National Taiwan University), Richard Schoen (Stanford University, USA), Mao-Pei Tsui (University of Toledo, USA), Mu-Tao Wang (Columbia University, USA).

**Information:** email: [mao-pei.tsui@utoledo.edu](mailto:mao-pei.tsui@utoledo.edu); <http://www.math.ntu.edu.tw/~prg2008/>.

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

\* 15–19 **4th International Conference on Combinatorial Mathematics and Combinatorial Computing (4ICC)**, University of Auckland, Auckland, New Zealand.

**Description:** The ICC is held every 10 years. This year it includes the annual ACCMCC meeting of the Combinatorial Society of Australasia, and the New Zealand leg of the map conferences held annually in Slovenia/Slovakia/Arizona-Portugal/New Zealand. Note: this event is held during summer in New Zealand.

**Invited speakers (accepted unless stated):** Alexander Barvinok, University of Michigan; Peter Cameron, Queen Mary College, London; Jan de Gier, University of Melbourne; Jesus de Loera, University of California-Davis; Robin Pemantle, University of Pennsylvania (tentative); Cheryl Praeger, University of Western Australia; Chris Rodger, Auburn University; Paul Seymour, Princeton University (tentative); Mike Steel, University of Canterbury; Carsten Thomassen, Technical University of Denmark (tentative); Nick Wormald, University of Waterloo; Doron Zeilberger, Rutgers University.

**Information:** email: [mcw@cs.auckland.ac.nz](mailto:mcw@cs.auckland.ac.nz); <http://www.cs.auckland.ac.nz/research/groups/theory/4ICC/>.

15–19 **The 13th Asian Technology Conference in Mathemat-**

ics (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.

**Description:** On the initiative of Department of Science and Technology (DST), Government of India, an activity cell to organize “India Mathematics Year 2009 (IMY2009) as Pre-ICM activity” has been set up in the Department of Mathematics, University of Delhi. To launch IMY-2009, we are organizing: Pre-ICM International Convention on Mathematical Sciences (ICMS2008) at the Department of Mathematics, University of Delhi during December 18–20, 2008. The academic programme of the convention will include activities like workshops, symposia, brain-storming sessions, panel discussions, group discussions, seminars, poster sessions, tutorials, compact sessions etc. on various topics of mathematical sciences including interdisciplinary aspects.

**Information:** Write to Prof. B. K. Dass, icmsdu@gmail.com or <http://icms2008.du.ac.in>.

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

## January 2009

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)

\* 12–May 22 **Algebraic Geometry**, Mathematical Sciences Research Institute, Berkeley, California.

**Organizers:** William Fulton, Joe Harris, Brendan Hassett, János Kollár, Sándor Kovács, Robert Lazarsfeld, Ravi Vakil.

**Description:** This semester-long “jumbo” program on algebraic geometry will emphasize cross-fertilization between different areas, including classical and complex algebraic geometry, linear series techniques, moduli spaces, enumerative geometry, varieties with group actions, birational geometry, rational curves on algebraic varieties, and classification theory. The full resources of MSRI will be devoted to a comprehensive discussion of these topics. The organizers hope to convey the essential unity of the subject, especially to young researchers and established mathematicians in other fields who use algebraic geometry in their research.

**Information:** [http://www.msri.org/calendar/programs/programinfo/251/show\\_program](http://www.msri.org/calendar/programs/programinfo/251/show_program).

\* 22–24 **Connections for Women: Algebraic Geometry and Related Fields**, Mathematical Sciences Research Institute, Berkeley, California.

**Organizers:** Angela Gibney, Brendan Hassett, Sándor Kovács, Diane Maclagan, Jessica Sidman, and Ravi Vakil.

**Description:** Twenty-first century algebraic geometry is a broad subject, with mathematicians on different frontiers sharing little background. This workshop will consist of colloquium-style talks introducing some of its subfields to people, particularly postdocs, working in other areas. The workshop is part of the semester program on Algebraic Geometry, and some additional funding will be available for participants to attend the associated introductory workshop “Classical algebraic geometry”, January 26–30, 2009.

**Information:** [http://www.msri.org/calendar/workshops/WorkshopInfo/471/show\\_workshop](http://www.msri.org/calendar/workshops/WorkshopInfo/471/show_workshop).

\* 26–30 **Classical Algebraic Geometry**, Mathematical Sciences Research Institute, Berkeley, California.

**Organizers:** Lucia Caporaso, Brendan Hassett, James McKernan, Mircea Mustata, Mihnea Popa.

**Description:** The main theme of the workshop will be to explore modern approaches to problems originating in Classical Algebraic Geometry, and at the same time offer an introduction to various subfields to the younger participants in the semester-long program. Topics will include: (1) Birational geometry; (2) Moduli spaces of curves; (3) Moduli spaces of vector bundles; (4) Abelian varieties.

**Information:** [http://www.msri.org/calendar/index\\_workshops\\_by\\_date](http://www.msri.org/calendar/index_workshops_by_date).

## 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)

\* 15–20 **ALGORITMY 2009 Conference on Scientific Computing**, Hotel Permon, Podbanske, High Tatra Mountains, Slovak Republic.

**Topics:** The main topics of the ALGORITMY 2009 conference are: computational fluid dynamics, heat transfer and porous media flow, nonlinear conservation laws, free boundary problems, inverse problems, image processing and computer vision, computer graphics and computational geometry, computational finance, computational biology and medicine, computational geosciences, high-scale and parallel computing, direct and iterative methods for large linear algebraic systems, preconditioning techniques, optimization and nonlinear algebraic problems, scientific visualization, software for scientific computations. In solving the above mentioned real-world problems, the main attention is given to a new development and advanced applications of modern numerical methods as finite element, finite volume and level set methods, applied on structured and unstructured adaptive grids and accompanied by a fast and stable solution of arising systems of equations.

**Information:** email: [algoritm@math.sk](mailto:algoritm@math.sk); <http://www.math.sk/alg2009>.

## April 2009

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

19–26 **NoDIA-2009: Nonlinear Differential Equations, Integrability and Applications**, Cape Town, South Africa. (May 2008, p. 636)

\* 27–May 1 **Combinatorial Challenges in Toric Varieties**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to a selection of problems on lattice polytopes that arise in the theory of toric varieties. Besides structural results, we will work on search strategies and computational approaches to these questions.

**Information:** email: [farmer@aimath.org](mailto:farmer@aimath.org); <http://aimath.org/ARCC/workshops/toricvarieties.html>.

## May 2009

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

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

**Description:** The Department of Mathematics at the University of Buea, Cameroon, is organizing its first International Conference on Mathematical Sciences, with the aim of bringing together academicians and professionals with cross-disciplinary interests

related to Mathematical Sciences, to demonstrate the vital role that mathematics plays in society, and to bridge as well as nurture understanding and collaboration between global and Cameroon regional mathematical scientists and practitioners

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

- \* 17–22 **Topology,  $C^*$ -Algebras, and String Duality - an NSF/CBMS Regional Conference in the Mathematical Sciences**, Texas Christian University, Fort Worth, Texas.

**Description:** Principal Lecturer: Jonathan Rosenberg (Univ. of Maryland). The subject of the conference will involve a number of mathematical “spin-offs” of string theory into pure mathematics, and the way they connect with other topics in topology and operator algebras that were initially developed for other purposes. The conference will focus largely on the rich interaction between these and other important concepts of current interest. Topics from pure mathematics will include K-theory and twisted K-theory, continuous-trace algebras and the Dixmier-Douady invariant, crossed product  $C^*$ -algebras and their K-theory, bundles, and homotopy theory. The lecturer will develop parts of these subjects in their own right, as well as discussing their relevance to the very active current research in mathematical physics concerning dualities between various string theories, especially T-duality and S-duality.

**Information:** <http://faculty.tcu.edu/gfriedman/CBMS/>.

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

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

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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 2009

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- \* 8–12 **Computational Methods and Function Theory 2009**, Bilkent University, Ankara, Turkey.

**Description:** The general theme of the meeting concerns various aspects of interaction of complex variables and scientific computation, including related topics from function theory, approximation theory and numerical analysis. Another important aspect of the CMFT meetings, previously held in Valparaiso 1989, Penang 1994, Nicosia 1997, Aveiro 2001, and Joensuu 2005, is to promote the creation and maintenance of contacts with scientists from diverse cultures. The organizers are Mefharet Kocatepe (Bilkent University, Ankara, Turkey), Ilpo Laine (University of Joensuu, Finland), Stephan Ruscheweyh (University of Würzburg, Germany) and Edward Saff (Vanderbilt University, Nashville).

**Information:** email: [cmft@bilkent.edu.tr](mailto:cmft@bilkent.edu.tr).

- \* 15–19 **Waves 2009: The 9th International Conference on Mathematical and Numerical Aspects of Waves Propagation**, Pau, France.

**Description:** This conference is one of the main venues where significant advances in the analysis and computational modeling of wave phenomena and exciting new applications are presented. Conference themes include but are not limited to forward and inverse scattering, nonlinear wave phenomena, fast computational techniques, high performance computing, numerical analysis, absorbing layers and approximate boundary conditions, analytic and semi-analytic techniques for wave problems, domain decomposition, guided waves, random media etc.

**Information:** email: [julien.Diaz@inria.fr](mailto:julien.Diaz@inria.fr); <http://waves-2009.bordeaux.inria.fr/>.

- \* 22–26 (NEW DATE) **5th Asian Mathematical Conference (AMC 2009)**, Penang /Kulalumpur, Malaysia.

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

**Information:** email: [vravi@maths.du.ac.in](mailto:vravi@maths.du.ac.in); <http://math.usm.my/amc2009>.

### July 2009

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- \* 6–10 **26th Journées Arithmétiques**, Université de Saint-Etienne, Saint-Etienne, France.

**Description:** About 12 invited talks; parallel sessions of 20 minutes communications in all branches of Number Theory.

**Information:** [ja2009@univ-st-etienne.fr](mailto:ja2009@univ-st-etienne.fr); <http://ja2009.univ-st-etienne.fr/>.

- \* 6–10 **Journées de Géométrie Arithmétique de Rennes**, Institut de Recherche Mathématique de Rennes, Université de Rennes 1, Rennes, France.

**Description:** The conference will cover the following subjects : ramification theory, vanishing cycles, rigid geometry, arithmetic D-modules, geometric and p-adic aspects of the Langlands Correspondence and related topics.

**Information:** email: [ahmed.abbes@univ-rennes1.fr](mailto:ahmed.abbes@univ-rennes1.fr); <http://perso.univ-rennes1.fr/ahmed.abbes/jgar.html>.

- \* 13–17 **9th International Conference on Finite Fields and Applications**, University College Dublin, Dublin, Ireland.

**Description:** The aim of this conference is to bring together researchers from all aspects of finite fields: theory, computation and applications. Previous meetings have been in Las Vegas (USA), Glasgow (Scotland), Waterloo (Canada), Augsburg (Germany), Oaxaca (Mexico), Toulouse (France) and Melbourne (Australia). As in previous years we intend to publish conference proceedings with one of the major scientific publishers.

**Topics:** Of interest include, but are not limited to, the following. Theory: additive and multiplicative structure, polynomials, curves, varieties, character sums, function fields. Computation: polynomial factorisation, decomposition and irreducibility testing, finding primitive and other special elements of finite fields, algorithms for polynomials, codes, curves, varieties, and other objects over finite fields. Applications: cryptography, codes, information theory, combinatorics, quantum information science.

**Information:** <http://www.shannoninstitute.ie/fq9/>; email: [gary.mcguire@ucd.ie](mailto:gary.mcguire@ucd.ie).