March 2005


2–5 Representing Unresolved Degrees of Freedom for the Atmosphere and Ocean, Centre de Recherches Mathématiques, Université de Montréal, Montréal, Quebec, Canada. (Aug. 2004, p. 833)

3–5 International Conference on Environmental Fluid Mechanics (ICEFM’05), Indian Institute of Technology Guwahati, Guwahati, India. (Sept. 2004, p. 971)

6–12 International Conference on Algebras, in Memory of Kostia Beidar, National Cheng Kung University, Tainan, Taiwan. (Nov. 2004, p. 1264)

7–9 DIMACS Working Group on Order Theoretic Aspects of Epidemiology, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Jun/Jul. 2004, p. 692)


8–11 IPAM Program in Grand Challenge Problems in Computational Astrophysics–Tutorials, UCLA, Los Angeles, California. (Dec. 2004, p. 1375)


18–19 AMS Southeastern Section Meeting, Western Kentucky University, Bowling Green, Kentucky. (May 2004, p. 570)


22–26 Conference on Algebra and its Applications, Center of Ring Theory and Its Applications, Department of Mathematics, Ohio University, Athens, Ohio. (Oct. 2004, p. 1095)


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

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

In general, announcements of meetings and conferences held in North America carry only the date, title of meeting, place of meeting, names of speakers (or sometimes a general statement on the program), deadlines for abstracts or contributed papers, and source of further information. Meetings held outside the North American area may carry more detailed information. In any case, if there is any application deadline with respect to participation in the meeting, this fact should be noted. All communications on meetings and conferences in the mathematical sciences should be sent to the Editor of the Notices in care of the American Mathematical Society in Providence or electronically to notices@ams.org or mathcal@ams.org.

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

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

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


28–April 1 Topology and geometry of the moduli space of curves, AIM Research Conference Center, Palo Alto, California. (Dec. 2004, p. 1375)

28–April 1 Workshop on String Phenomenology, The Perimeter Institute, Waterloo, Ontario, Canada. (Apr. 2004, p. 461)

29–April 1 14th International Workshop on Matrices and Statistics, Massey University, Albany Campus, Auckland, New Zealand. (Nov. 2004, p. 1264)


April 2005

1–July 8 Special Semester on “Modern Methods of Time-Frequency Analysis”, Erwin Schroedinger Institute (ESI) for Mathematical Physics, Vienna, Austria. (Apr. 2004, p. 461)

2–3 AMS Eastern Section Meeting, University of Delaware, Newark, Delaware. (May 2004, p. 576)


6–10 Extracting Macroscopic Information from Molecular Dynamics, Centre de Recherches Mathématiques, Université de Montréal, Montréal, Québec, Canada. (Aug. 2004, p. 833)

7–9 The 2005 Missouri Mathematical Association of Two Year Colleges Conference, Lake Ozark, Missouri. (Jan. 2005, p. 79)

8–10 AMS Central Section Meeting, Texas Tech University, Lubbock, Texas. (May 2004, p. 576)


16–17 AMS Western Section Meeting, University of California, Santa Barbara, California. (May 2004, p. 576)


27–May 1 Multiscale Modeling in Solids, Centre de Recherches Mathématiques, Université de Montréal, Montréal, Québec, Canada. (Aug. 2004, p. 834)


May 2005


4–5 Latent Variable Models and Survey Data for Social and Health Sciences, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada. Organizer: Mary E. Thompson (University of Waterloo).


6–9 Statistical Inferences on Shape Manifolds, AIM Research Conference Center, Palo Alto, California. (Jun/Jul. 2004, p. 693)

9–20 The Third Annual Spring Institute on Noncommutative Geometry and Operator Algebras in conjunction with the 20th Shanks Lecture, Vanderbilt University, Nashville, Tennessee. (Jan. 2005, p. 80)

11–15 Integrative Multiscale Modeling and Simulation in Materials Science, Fluids and Environmental Science, Centre de Recherches Mathématiques, Université de Montréal, Montréal, Québec, Canada. (Aug. 2004, p. 834)

13–14 Sixth Mississippi State–UAB Conference on Differential Equations & Computational Simulations, Mississippi State University, Mississippi State, Mississippi. (Oct. 2004, p. 1096)


15–18 OSCAR’05: The 3rd Annual Symposium on Open Source Cluster Application Resources (OSCAR), University of Guelph, Guelph, Ontario, Canada. (Nov. 2004, p. 1264)


6–8 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, Marriott Portland Downtown, Portland, Oregon. (May 2004, p. 576)


6–11 14th Summer St. Petersburg Meeting in Mathematical Analysis, Euler IMI, St. Petersburg, Russia. (Feb. 2005, p. 289)

6–24 Summer School and Conference on Geometry and Topology of 3-Manifolds, ICTP, Trieste, Italy.

*6–24 Summer School and Conference on Geometry and Topology of 3-Manifolds, ICTP, Trieste, Italy.

Organizers: Michel Boileau, Carlo Petronio, Bruno Zimmermann.
Deadline: January 20, 2005.

7–10 SIAM Conference on Mathematical and Computational Issues in the Geosciences, Palais des Papes, The International Conference Center, Avignon, France. (Nov. 2004, p. 1265)


7–17 Fields Institute Summer School on Operator Algebras, University of Ottawa, Ottawa, Ontario, Canada. (Nov. 2004, p. 1265)


8–11 IMA Workshop: Effective Theories for Materials and Macromolecules, University of Minnesota, Minneapolis, Minnesota. (Jun/Jul. 2004, p. 693)


10–12 Groups, Rings and Algebras—A Conference in Honor of Donald S. Passman, University of Wisconsin, van Vleck Hall, Madison, Wisconsin. (Jan. 2005, p. 80)

12–24 Foliations 2005, Lodz, Poland. (Sept. 2004, p. 973)

12–July 23 DIMACS Reconnect Conferences 2005: Reconnecting Teaching Faculty to the Mathematical Sciences Research Enterprise, DIMACS, CoRE Building, 4th Floor, Rutgers, the State University of New Jersey, 96 Frelinghuysen Road, Piscataway, New Jersey. (Feb. 2005, p. 290)


13–18 Computational Methods and Function Theory (CMFT 2005), Joensuu, Finland. (Feb. 2004, p. 279)


*14–18 Random Media and Stochastic Partial Differential Equations, University of Southern California, Los Angeles, California.
Organizer: Sergey Lototsky (lototsky@math.uuc.edu).
Speakers: M. I. Freidlin (University of Maryland, College Park); R. Z. Khasminskii (Wayne State University); N. V. Krylov (University of Minnesota); G. Papanicolaou (Stanford University); A. N. Shiryaev (Steklov Mathematics Institute, Moscow, Russia); R. Sowers (University of Illinois, Urbana-Champaign).
Information: Program to be posted at http://math.uuc.edu.

Description: The semantic study of non-classical logics is a field where no single overarching paradigm has been established, and
where a variety of techniques are currently being explored. An important goal of this meeting is to promote the cross-fertilization between the fundamental ideas connected with these approaches. Thus, we aim to bring together researchers from various fields of non-classical logics and applications, as well as from lattice theory, universal algebra, category theory and general topology, in order to foster collaboration and further research. The scientific programme of the congress will include a few invited lectures and will provide ample time for contributed papers and interaction between participants. Researchers whose interests fit the general aims of the conference are encouraged to participate.

**Information:** The names of invited speakers, and further details about travel grants, hotels, etc., will be posted at the congress’ web page http://www.mat.ub.es/~logica/meeting2005/. Please visit it for any other information on the meeting.

16–19 Second Joint International Meeting with the Deutsche Mathematiker-Vereinigung (DMV) and the Österreische Mathematische Gesellschaft (OMG), Mainz, Germany. (May 2004, p. 576)

17–23 (NEW DATE) Algebraic Geometry and Number Theory, Euler IMI, St. Petersburg, Russia. (Feb. 2005, p. 290)

19–24 33rd Canadian Operator Symposium (COSy), dedicated to George Elliott’s 60th birthday, University of Ottawa, Ottawa, Ontario, Canada. (Nov. 2004, p. 1265)


20–22 DIMACS Workshop on Detecting and Processing Regularities in High Throughput Biological Data, DIMACS Center, CoRE Bldg., Rutgers University, Piscataway, New Jersey. (Dec. 2004, p. 1377)


20–24 The Fourth International Conference on High Dimensional Probability (HDP), St. John’s College, Santa Fe, New Mexico. (Feb. 2005, p. 290)


20–26 Sixth International Conference “Symmetry in Nonlinear Mathematical Physics”, Institute of Mathematics, National Academy of Sciences of Ukraine, Kyiv (Kiev), Ukraine. (Dec. 2004, p. 1377)

20–July 8 (REVISED) Random matrices, random processes, and integrable systems (CR.M. Short Program), Centre de recherches mathématiques, Université de Montréal, Montreal. (Nov. 2004, p. 1265)


20–August 15 Computational Prospects of Infinity, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Jun./Jul. 2004, p. 693)


26–July 1 30th Conference on Stochastic Processes and Their Applications, University of California at Santa Barbara (UCSB), Santa Barbara, California. (Jun./Jul. 2004, p. 694)

27–July 1 Nonlinear Modelling and Control, An International Seminar, Nayanova University, Samara, Russia. (Feb. 2005, p. 290)

*27–July 5 Probability and Mathematical Physics, Centre de recherches mathématiques, Montreal, Quebec, Canada.

Description: Conference celebrating the 65th birthday of Stanislav Molchanov.

Organizers: Don Dawson (Carleton & McGill), Vojkan Jaksic (McGill), Boris Vainberg (UNCC).

Invited Speakers: G. Ben Arous (Courant), L. Bogachev (England), R. Carmona (Princeton), K. Chen (N. Carolina), M. Cranston (Rochester), G. Derfel (Ben Gurion), E. Dynkin (Cornell), A. Figotin (Irvine), M. Freidlin (Maryland), J. Gaertner (Berlin), I. Goldshel (England), A. Gordon (Rochester), R. Grigoruch (Texas A&M), D. Hurdertmark (Illinois), S. Jimormskaya (Irvine), R. Kashkinski (Detroit), K. Khanin (England), W. Kirsch (Ruhr), B. Kiselev (Wisconsin), A. Klein (Irvine), L. Korolov (Princeton), S. Kotani (Japan), P. Kuchment (Texas A&M), A. Laptev (Stockholm), Y. Last (Hebrew), V. Malyshev (Paris), M. Menshakov (England), N. Minami (Japan), L. Pastur (Ukraine), A. Ramirez (Chile), B. Simon (Caltech), A. Soshnikov (Davies), T. Spencer (IAS). (*) To be confirmed.


*30–July 2 Primeras Jornadas de Teoría de Números, EPSVG-UPC, Vilanova i la Geltrú (Barcelona), Spain.

Description: The “Jornadas de Teoría de Números” (Number Theory Conference) are born to become a periodic meeting point for the arithmetical community working in Spanish language, so that it can show the state of the art in research in Number Theory in Spain and promote relationships between different research groups.


Information: http://anduril.epsevg.upc.es/~jtn05.

**July 2005**


2–9 Mile High Conference on Quasigroups, Loops and Nonassociative Systems, University of Denver, Denver, Colorado. (Nov. 2004, p. 1266)

3–9 XXIVIèmes Journées Arithmétiques, Marseilles, France. (Sept. 2004, p. 975)

4–8 8th International Symposium on “Generalized Convexity and Monotonicity”, Insubria University, Varese, Italy. (Dec. 2004, p. 1378)

4–8 Conference on Universal Algebra and Lattice Theory, University of Szeged, Szeged, Hungary. (Dec. 2004, p. 1378)
9–11 Joint Meeting of the Chinese Society of Probability and Statistics (CSPS) and the Institute of Mathematical Statistics (IMS), Beijing, China. (Aug. 2004, p. 834)


10–15 20th British Combinatorial Conference, University of Durham, United Kingdom. (Sept. 2004, p. 975)

10–15 SampTA05 (Sampling Theory and applications), Ondokuz Mayis University Samsun, Turkey. (Nov. 2004, p. 975)

10–16 Stochastic Modelling of Complex Systems (SMOCS-05), Daydream Island resort (Whitsundays), Queensland, Australia. (Nov. 2004, p. 1266)


*11–15 Novi Sad Algebraic Conference 2005, University of Novi Sad, Novi Sad, Serbia/Serbia and Montenegro.

Program: In order to attract younger researchers and others who are not experts in the area, there will be longer plenary talks, 60 minutes in duration. Many of them should be of expository, survey-like nature, which should make them understandable to a wider audience. The afternoon sessions will be reserved for contributed talks in several special sessions, the number of which will depend on the number of speakers. The duration of these will be 20 minutes, and it is expected that the speakers will present their most interesting recent research.

Topics: Universal algebra, Lattices and ordered structures, Model theory and set theory, Clone theory, Algebraic methods in computer science.

Speakers: Z. Esik (Univ. of Szeged), R. Freese (Univ. of Hawaii), P. Idziak (Jagiellonian Univ., Krakow), J. Jekez (Charles Univ., Prague), K. Kearnes (Univ. of Colorado at Boulder), R. Mckenzie (Vanderbilt Univ.), R. Pöschel (Technical Univ., Dresden), I. Rosenberg (Univ. of Montreal), A. Szendrei (Univ. of Colorado at Boulder), S. Todorcevic(Univ. of Toronto & Universite Paris 7), F. Wehrung (Univ. of Caen), R. Willard (Univ. of Waterloo).

Deadlines: The deadline for the registration is April 30, 2005; The abstract submission deadline is May 31, 2005.

Information: http://www.im.ns.ac.yu/events/NSAC05/default.html; email: nsac05@im.ns.ac.yu.

11–16 Strings 2005, Toronto, University of Toronto, Toronto, Ontario, Canada. (Nov. 2004, p. 1266)

*11–22 SMS 2005-NATO Advanced Summer Institute: Equidistribution in Number Theory, Université de Montréal, Montréal, Canada.

Speakers: Yuri Bilu (Bordeaux I), William Duke (UCLA), John Friedlander (Toronto), Andrew Granville (Montréal), Roger Heath-Brown (Oxford), Elon Lindenstrauss (NYU), Jens Marklof (Bristol), Zeev Rudnick (Tel Aviv), Wolfgang Schmidt (Colorado at Boulder and Vienna), K. Soundararajan (Michigan), Yuri Tschinkel (Göttigen), Emmanuel Ullmo (Paris-Sud 11), Akshay Venkatesh (MIT).


Note: This summer school is primarily targeted at senior grad students, postdocs and junior faculty. For full consideration, requests for participation or financial assistance must be received before February 28, 2005. Financial support available.

Information: http://www.dms.umontreal.ca/sms/; email: belanger@dms.umontreal.ca.

16–August 1 The Eighth International Diffiety school, Santo Stefano del Sole (Avellino), Italy.

Aim: The aim of the School is to introduce undergraduate and Ph.D. students in Mathematics and Physics as well as post-doctoral researchers in a recently emerged area of Mathematics and Theoretical Physics: Secondary Calculus. A diffiety is a new geometrical object that properly formalizes the concept of the solution space of a given system of (nonlinear) PDEs, much as an algebraic variety does with respect to solutions of a given system of algebraic equations. Secondary Calculus is a natural diffiety analogue of the standard Calculus on smooth manifolds, and as such leads to a very rich general theory of nonlinear PDEs. Moreover, it appears to be the unique natural language for quantum physics, just as the standard Calculus is the natural language for classical physics.

Organizer: Diffiety Institute (Russia).

Deadline: June 15, 2005.

Contact: Prof. A. M. Vinogradov, Dipartimento di Matematica e Informatica, Universita’ di Salerno, Via Ponte del Mille, 84084 Fisciano (SA), Italy; email: school05 @ diffiety.org; http://diffiety.ac.ru.

17–30 Advances in Sensing with Security Applications: A NATO Advanced Study Institute, Ciocco Resort, Tuscany. (Jan. 2005, p. 81)

18–22 Algorithms for Approximation V, University College, Chester, UK. (Nov. 2004, p. 1266)

18–22 VI Brazilian Workshop on Continuous Optimization, West Side Hotel Residence, Av. República do Libano, 2526, Setor Oeste, in Goiânia, Brazil. (Jan. 2005, p. 81)

20–27 The 5th International Algebraic Conference in Ukraine. Odessa I. I. Mechnikov National University, Odessa, Ukraine. (Nov. 2004, p. 1266)

22–27 AMSI Workshop entitled “Noncommutative Geometry and Index Theory”, Australian National University, Canberra, Australia. (Feb. 2005, p. 291)


28–August 3 Logic Colloquium ’05: ASL European Summer Meeting, Athens, Greece. (Oct. 2004, p. 1097)


31–August 3 Bridges: Mathematical Connections in Art, Music, and Science, The Banff Centre, Banff, Canada. (Jan. 2005, p. 81)

August 2005

*1–9 XVI Coloquio Latinoamericano de Algebra, Colonia, Uruguay.

Description: This biannual event is the premier conference linking algebraists and algebraic geometers from all of Latin America.
**Mathematics Calendar**

**Topics:** Besides the plenary talks and general courses this meeting will have seven thematic parallel sessions on the following topics: Commutative Algebra and Algebraic Geometry, Non-associative Algebras and Ring theory, Group Theory, Hopf Algebras and Algebraic Combinatorics, Homological Methods and Representation Theory, Number Theory, Operator Algebras. A special session on Applications of Algebra will also be held.

**Speakers:** A list of a few of the confirmed speakers is the following: Nicolas Andruskiewitsch, Raymundo Bautista, Michel Brion, Ken Brown, Antonio Campillo, Max Karoubi, Jean-Louis Loday, Susan Montgomery, Adrian Ocneanu, Jose Antonio de la Peña, Vladimir Popov, Hans-Jürgen Schneider, Aron Simis, Frank Sottile, Richard Stanley, Boris Tsypkin, Mariusz Wodzicki.

**Organizing and Scientific Committee:** Walter Ferrer Santos (Coordinator), Gerardo Gonzalez-Sprinberg, Alfredo Jones, Alvaro Rittatore, Andrea Solotar.

**Deadline:** May 1st, 2005.

**Information:** http://www.cmat.edu.uy/cmats/eventos/16cla/en; Walter Ferrer; email: wfrerrer@cmat.edu.uy


**Topics:** Set Theory, Foundations of Space-Time, Algebraic Logic, but contributions from all other branches of symbolic logic are welcome.


*7–12 **High-dimensional Partial Differential Equations in Science and Engineering**, Centre de recherches mathématiques, Université de Montréal Montréal, Québec, Canada.

**Description:** High-dimensional spatio-temporal partial differential equations are a major challenge to scientific computing of the future. Up to now deemed intractable, these equations have recently become manageable by combining recent developments in numerical techniques, appropriate computer implementations, and the use of computers with parallel and even massively parallel architectures. This opens new perspectives in many fields of applications. Kinetic plasma physics equations, many body Schrödinger equation, Dirac and Maxwell equations for molecular electronic structure and nuclear dynamics computations, option pricing equations in mathematical finance, and Fokker-Planck and fluid dynamics equations for complex fluids, are examples of equations that can now be handled. The objective of the workshop is to bring together experts of international stature in this broad spectrum of areas to confront their approaches and possibly bring out common problem formulations and research directions in the numerical solutions of high dimensional partial differential equations in various fields of science and engineering with special emphasis on chemistry and physics.

**Scientific Program Committee and Organizers:** André Bandrauk (CRC, Chimie, Université de Sherbrooke); Michel Delfour (CRM/DMS, Université de Montréal, Canada); Claude Le Bris (CERMICS, École Nationale des Ponts et Chaussées, France).

*8–12 **NSF-CBMS Regional Conference on Algebraic and Topological Combinatorics of Ordered Sets**, San Francisco State University, San Francisco, California.

**Speaker:** Anders Björner will give ten lectures to introduce background material, fundamental results, and recent advances in the field of algebraic and topological combinatorics of partially ordered sets, (oriented) matroids, subspace arrangements, and algebraic shifting etc. Most of the 40-50 participants will also be held.

**Other Speakers:** Alexander Barvinok, Winfried Bruns, Gunnar Carlsson, Persi Diaconis, Isabella Novik, Bernd Sturmfels, Michelle Wachs, Neil White.

**Organizers:** J. Gubeladze, email: sos@math.sfsu.edu; S. Hosten; email: serkan@math.sfsu.edu.

**Information:** http://math.sfsu.edu/gubeladze/cbms.html

8–13 **XX Nevanlinna Colloquium**, ETH Lausanne, Lausanne, Switzerland. (Nov. 2004, p. 1266)


*17–21 **Third Pacific Rim Conference on Mathematics**, Fudan University, Shanghai, China.

**Topics:** All areas of mathematics with focus topics on: Algebra and Combinatorics; Algebraic Aspects of Lie Theory and Geometry; Applied Differential Geometry; Asymptotics and Riemann-Hilbert Problems; Computational Approach to Complex Dynamical Systems; Kinetic Theory; Low Dimensional Topology and Geometry; Nonlinear Analysis Nonlinear Phenomena, Symmetry and Integrable Structures; Partial Differential Equations and Applications.

**Plenary Speakers:** Gerard Jemmehwa Chang (Taiwan), Shuxing Chen (China), Philippe G. Ciarlet (Hong Kong), Konstantin Mischaikow (USA), Colin Rogers (Australia), Minoru Wakimoto (Japan), Shicheng Wang (China), Roderick Wong (Hong Kong), Shih-Hsien Yu (Hong Kong).

**Local Organizers:** X. Chen, J. Cheng, J. Hong, T. Li (Chairman), L. Lu, Y. Tan, Z. Wu.

**Supporter:** Fudan University, Mathematical Center of Ministry of Education of China, National Natural Science Foundation of China, Chinese Mathematical Society, China Society for Industrial and Applied Mathematics, Liu Bie Ju Centre for Mathematical Sciences (City University of Hong Kong), Sino-French Institute of Applied Mathematics.

**Information:** Contact: Zhou Chunlian, Sino-French Institute of Applied Mathematics, Fudan University, Shanghai 200433, China; tel: 81-21-6564 2469; fax: 86-21-6564 8274; email: czhou@fudan.edu.cn; http://PRC3.fudan.edu.cn.

**September 2005**

*5–9 Workshop on: Modular Forms, Automorphic Forms and Related Moduli Spaces*, INdAM-institute on the campus of the Università di Roma “La Sapienza”, Rome, Italy.

**Organizers:** Riccardo Salvatori Manni (Roma) and Bert van Geemen (Milano).

**Invited Speakers:** F. Andreatta (Padova); S. Böcherer (Mannheim); J. H. Bruinier (Heidelberg) to be confirmed; D. Doud (Provo) to be confirmed; C. Faber (Stockholm) to be confirmed; V. Gritsenko (Lille); S. Grushevsky (Princeton); E. Freitag (Heidelberg); K. Hulek (Hannover); T. Ibaykaya (Osaka); W. Kohnen (Heidelberg); S. Kondo (Nagoya); S. Kudla (College Park) to be confirmed; E. Looijenga (Utrecht); D. Pollack (Middletown); G. K. Sankaran (Bath); R. Schmidt (Oklahoma); N. I. Shepherd-Barron (Cambridge, UK); W. Stein (Cambridge, USA); A. M. Uludag (Bursa); R. Weissauer (Heidelberg) to be confirmed.

**Information:** http://www.mat.uniroma1.it/modular/; email: modular@mat.uniroma1.it.

* 12–16 p-Adic Representations, Centre de recherches mathématiques, Univ. de Montréal, Montréal, Québec, Canada.

**Topics**: The main topics are related to a p-adic Langlands correspondence and its relationship to p-adic families of motives. More precisely the p-adic Langlands correspondence is a correspondence between p-adic Galois representations of dimension \( n \) (of the absolute Galois group of \( \mathbb{Q}_p \)) and certain representations of \( \text{GL}(n, \mathbb{Q}_p) \) on \( p \)-adic topological vector spaces. This correspondence is supposed to be compatible with p-adic families on both sides.

**Organizers**: Adrian Iovita (Concordia); Henri Darmon (McGill).

**Information**: http://www.crm.umontreal.ca/Number2005/.

12–19 Small Deviation Probabilities and Related Topics, Euler IMI, St. Petersburg, Russia. (Feb. 2005, p. 291)

* 13–17 5th International Conference on Words, Centre de recherches mathématiques, Université de Montréal, Montréal, Québec, Canada.

**Organizers**: Srećko Brlek (Univ. du Québec à Montréal); Cedric Chauve (Univ. Bordeaux I, UQAM); Annie Lasalle (Univ. du Québec à Montréal); Geneviève Paquin (Univ. du Québec à Montréal).


19–23 IMA Tutorial: Radar and Optical Imaging, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, Minnesota. (Jan. 2005, p. 82)

* 20–27 International Conference Harmonic Analysis and Approximations, III, Tsahkadzor, Armenia.

**Deadline for Application**: March 31, 2005.

**Description**: The program of the conference will consist of invited 40-minutes plenary lectures and contributed 20-minutes talks. The following mathematicians have agreed to give a plenary lecture at the conference: Borislav Bojanov (Bulgaria), Carl de Boor (USA), Ronald DeVore (USA), Nira Dyn (Israel), Hakop Hakopian (Armenia), Kazaros Kazarian (Spain), Gerard Kerkyacharian (France), Sergey Konyagin (Russia), Michael Lacey (USA), Konstantin Oskolkov (USA), Allan Pinkus (Israel), Gerald Shmieder (Germany), Przemysław Wojtaszczyk (Poland).

**Contact Information**: Artur Sahakian, Institute of Mathematics, Marshal Bagramian ave, 24-B, 375019, Yerevan, Armenia; email: mathconf@ysu.am; http://math.sci.am; fax: (3741) 524801. Online registration is available: http://math.sci.am/conference/sept2005/registration.html.

26–30 49th Annual Meeting of the Australian Mathematical Society, The University of Western Australia, Perth, Australia. (Jan. 2005, p. 82)

**October 2005**


15–16 AMS Southeastern Section Meeting, East Tennessee State University, Johnson City, Tennessee. (Dec. 2004, p. 1379)

17–21 IMA Workshop: Imaging from Wave Propagation, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, Minnesota. (Jan. 2005, p. 82)

17–21 Nonlinear Parabolic Problems, Helsinki, Finland. (Jan. 2005, p. 82)

21–22 AMS Central Section Meeting, University of Nebraska, Lincoln, Nebraska. (Dec. 2004, p. 1379)


**Information**: SIAM’s conference on Mathematics for Industry focuses attention on the many and varied opportunities to promote applications of mathematics to industrial problems. Since the SIAM community encompasses enormous talent for integrating and enriching both industrial work and academic research, this conference will stress interactions within the context of mathematical models and complex systems, and will encourage other mathematical themes of interest to industry, government, business and finance.

The multidisciplinary nature of challenging manufacturing and development problems inspires the first thematic focus on mathematical models of processes encountered in manufacturing. In addition to validating models for consistency and computational correctness, and verifying them against real world data, these models must be joined into larger, more complex and interacting mathematical models. The second theme focuses on complex systems, which can vary from interactions among simplistic individual agents to complex mathematical models of behaviors. Each theme will include attention to the challenges that arise in coping with enormous amounts of data.


**November 2005**

7–11 IMA Workshop: Frontiers in Imaging, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, Minnesota. (Jan. 2005, p. 82)

12–13 AMS Western Section Meeting, University of Nebraska, University of Oregon, Eugene, Oregon. (Dec. 2004, p. 1379)

25–December 1 Reform, Revolution and Paradigm Shifts in Mathematics Education, Johor Bharu, Southern Malaysia (very close to Singapore). (Feb. 2005, p. 291)

25–December 1 Reform, Revolution and Paradigm Shifts in Mathematics Education, Johor Bharu, Southern Malaysia (very close to Singapore). (Feb. 2005, p. 291)

**December 2005**

5–9 IMA Workshop: Integration of Sensing and Processing, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, Minnesota. (Jan. 2005, p. 82)

* 12–16 Intersection of Arithmetic Cycles and Automorphic Forms, Centre de recherche mathématiques, Université de Montréal, Montréal, Québec, Canada.

**Purpose**: To explore the relationship between intersection numbers for arithmetic cycles on Shimura varieties, Fourier coefficients of automorphic forms, and special values of L-functions.

**Organizers**: Eyal Goren (McGill) and Henri Darmon (McGill).

**Information**: http://www.crm.umontreal.ca/Number2005/.

14–18 First Joint International Meeting with the Taiwanese Mathematical Society, Taiwan, Taiwan. (Dec. 2004, p. 1379)


* 15–19 Conference on Low-dimensional Topology, University of Virginia, Charlottesville, Virginia.

**Objective**: To bring together researchers working on different aspects of low-dimensional topology, including Floer homology,
Mathematics Calendar

the Ricci flow program, and more “classical” geometric topology, with the goal of looking for connections and unifying perspectives. A theme in several of these areas is that subtle relationships between a 4-manifold and its boundary constrain and illuminate both 3- and 4-dimensional topology. We propose this as a framework for comparing existing approaches and formulating key problems.

Organizers: Slava Krushkal (univ. Va), Frank Quinn (Virginia Tech).
Information: http://www.math.virginia.edu/topology/

January 2006

9–12 IMA Workshop: New Mathematics and Algorithms for 3-D Image Analysis, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, Minnesota. (Jan. 2005, p. 82)


February 2006

6–10 IMA Workshop: The Mathematics and Art of Film Editing and Restoration, University of Minnesota, 207 Church St. SE, 400 Lind Hall, Minneapolis, Minnesota. (Jan. 2005, p. 82)

* 13–18 L-functions and Related Themes, Centre de recherche mathématiques, Univ. de Montréal, Montréal, Québec, Canada.
Focus: The workshop will focus on the analytic theory of L-functions and how they are used in a variety of questions ranging from arithmetic geometry to classical analytic number theory.
Lecturers: Philippe Michel (Montpellier II); Kumar Murty (Toronto); K. Soundararajan (Michigan).
Organizers: Chantal David (Concordia) and Ram Murty (Queen’s).
Information: http://www.crm.umontreal.ca/Number2005/.

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.

March 2006

* 13–17 Anatomy of Integers, Centre de recherche mathématiques Université de Montréal, Montréal, Québec, Canada.
Organizers: Jean-Marie de Koninck (Laval) and Andrew Granville (Montréal).
Workshop Focus: On multiplicative number theory, divisors, prime factors, distribution of prime divisors, multiplicative functions, smooth/friable numbers etc.
Lecturers: Kevin Ford (Urbana-Champaign); K. Soundararajan (Michigan); Gerald Tenenbaum (Institut Élie Cartan Nancy).
Information: http://www.crm.umontreal.ca/Number2005/.

May 2006

* 13–18 Analytic methods for Diophantine equations, Banff International Research Station, Banff, Alberta, Canada.
Description: This meeting brings together the participants of the MSRI and CRM workshops The meeting will be held at the Banff International Research Station.
Organizers: Andrew Granville(Montréal), Yuri Tschinkel(Göttingen), Michael Bennett (UBC), Chantal David (Concordia) and Bill Duke (UCLA).
Information: email: paradis@crm.umontreal.ca.

June 2006

* 27–July 3 International Commission on Mathematical Instruction: Challenging Mathematics In and Beyond the Classroom, Tromsø, Norway.
Scope: The scope of this study will be wide. It will look at, for instance, the impact of mathematical challenges both inside and outside of the classroom, the role of mathematical challenges in supporting the curriculum for students of all levels of ability, vehicles for propagating mathematical challenges and assessment of their effectiveness. We would like to emphasize that we are interested in students and activities of all type, and want to go far beyond contests for talented students.
Discussion document: Has been prepared by an international committee chaired by Ed Barbeau of the University of Toronto (barbeau@math.utoronto.ca) and Peter Taylor of the University of Canberra Australia who is the executive-director of the Australian Mathematical Trust (pjt@olympiad.org). This document defines terms, describes issues, provides sample situations, and poses questions for discussion. Finally, it indicates how to become involved in the Study Conference. Would-be participants will be asked to submit a brief curriculum vita and a 6-10 page document addressing matters relevant to the study no later than August 31, 2005. The committee plans to send out invitations by January 31, 2006. The Conference will be followed by a publication.
A copy of the discussion document can be obtained by going to the website http://www.amt.canberra.edu, clicking on “LINKS” and then on “ICMI Study 16”.
Deadline: August 31, 2005.

July 2006

* 10–14 International Conference on Analytic Topology, Lake Plaza Hotel, Rotorua, New Zealand.
Description: The main goal of this conference is to bring together a group of researchers from around the world, who are working at the interface between Topology and Analysis, to discuss recent developments and future directions of Analytic Topology.
Organizers: Warren B. Moors (Auckland University, email: moors@math.auckland.ac.nz); and Jiling Cao (Auckland University, email: cao@math.auckland.ac.nz).

April 2006

* 6–12 Additive Combinatorics, Centre de recherche mathématiques, Université de Montréal, Montréal, Québec.
Topics: The topics covered will include: the Freiman-Ruzsa theorem, the structure of set theory addition, Gowers’ approach to Szemeredi’s theorem and Green and Tao’s approach to combinatorial sets with structure. A mini-school will be organized before this workshop to introduce more people to this vibrant subject. More information will be made available on this site.
Lecturers: Tim Gowers (Cambridge), Ben Green (Cambridge), Imre Ruzsa (Alfréd Rényi Institute) and Terence Tao (UCLA).
Organizers: Jozsef Solymosi(UBC) and Andrew Granville(Montréal).
Information: http://www.crm.umontreal.ca/Number2005/.