

# Mathematics Calendar

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

## December 2001

1-3 **First International Conference on Neutrosophy, Neutrosophic Logic, Set, Probability and Statistics**, University of New Mexico, Gallup, New Mexico. (May 2001, p. 531)

2-4 **DIMACS-CTS (Chiaotung University) Conference on the Interconnections among Codes, Designs, Graphs and Molecular Biology**, Center of Theoretical Science, Chiaotung University, Hsinchu, Taiwan. (Aug. 2001, p. 750)

2-8 **Quantum and Classical Integrability and Infinite Dimensional Systems**, International Centre for Mathematical Sciences, Edinburgh, UK. (June/July 2001, p. 629)

3-7 **LPAR'2001: 8th International Conference on Logic for Programming, AI and Reasoning**, Havana, Cuba. (June/July 2001, p. 629)

3-7 **Workshop on Applied Cryptology**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (June/July 2001, p. 629)

3-8 **NIPS 2001, Neural Information Processing Systems: Natural and Synthetic**, Vancouver, Canada. (June/July 2001, p. 629)

3-8 **Second International Gabor Workshop**, University of Vienna, Vienna, Austria. (Nov. 2001, p. 1226)

\* 4-7 **DIMACS Workshop on Codes and Complexity**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Short Description:** This workshop will bring together researchers in coding and information theory, theoretical computer science, and physics. It will be preceded by a tutorial on low-density parity-check codes intended to bring graduate students and other researchers with little or no previous background up to speed in this area. There will be several invited talks, as well as contributed talks.

**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

**Organizers:** A. Shokrollahi, Digital Fountain; D. Spielman, MIT; R. Urbanke, École Polytechnique Federale de Lausanne (EPFL).

**Contacts:** A. Shokrollahi, Digital Fountain; [amin@digitalfountain.com](mailto:amin@digitalfountain.com).

**Local Arrangements:** J. Herold, DIMACS Center, [jessicah@dimacs.rutgers.edu](mailto:jessicah@dimacs.rutgers.edu), 732-445-5928.

**Information:** <http://dimacs.rutgers.edu/Workshops/index.html>.

7-10 **2001 Australasian Research Symposium on Lie Groups, Algebraic Groups, Quantum Groups, and Their Representations (LAQ'2001)**, The University of Auckland, Auckland, New Zealand. (June/July 2001, p. 629)

10-13 **International Congress on Modelling and Simulation-Modsim 2001**, Australian National University, Canberra, Australia. (June/July 2001, p. 629)

10-14 **ICMI Study Conference on the Future of the Teaching and Learning of Algebra**, University of Melbourne, Australia. (Jan. 2001, p. 55)

10-14 **Macroscopic Organisation from Microscopic Behaviour in Immunology, Ecology and Epidemiology**, Isaac Newton Institute, Cambridge, UK. (May 2001, p. 531)

10-14 **QMath-8. Mathematical Results in Quantum Mechanics**, Taxco, Mexico. (May 2001, p. 531)

13-14 **SAGA 2001—1st Symposium on Stochastic Algorithms, Foundations and Applications**, Berlin, Germany. (Nov. 2001, p. 1226)

\* 14 **DIMACS Workshop on Computational Complexity, Entropy and Statistical Physics**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

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 **six 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, 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/>.

**Short Description:** The workshop will explore connections between biology, computational complexity, discrete mathematics, dynamical systems and statistical physics. All of these disciplines use entropy in one way or another. But just what is entropy? It is frequently said it is a measure of disorder, and while this needs many qualifications and clarifications it does represent something essential about it. We hope that by comparing the uses of entropy in these various contexts we will be able to gain new insights into some universal aspects common to all of them.

**Sponsors:** DIMACS Center.

**Organizers:** M. Fredman, Rutgers Univ.; J. Komlos, Rutgers Univ.; J. Lebowitz, Rutgers Univ.

**Contacts:** J. Komlos, Rutgers Univ., komlos@math.rutgers.edu.

**Local Arrangements:** J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-5928.

**Information:** <http://dimacs.rutgers.edu/Workshops/index.html>

14–18 **NSF-CBMS Regional Research Conference: Using Spectral Data to Solve Inverse Problems**, The University of Texas–Pan American, Edinburg, Texas. (Nov. 2001, p. 1227)

14–20 **School on Quantum Markov Chains**, Grand Hotel Bellavista, Levico, Terme (Trento), Italy. (Aug. 2001, p. 750)

15–19 **International Conference on the Use of Technology in Teaching and Learning Mathematics and Biomathematics (UTEL-MB 2001)**, University of Delhi, Delhi, India. (Oct. 2001, p. 1049)

15–19 **The Sixth Asian Technology Conference in Mathematics (ATCM2001) (Applications of Technology in Teaching and Research for the 21st Century)**, RMIT University, Melbourne, Australia. (Apr. 2001, p. 439)

17–19 **Eighth Cryptography and Coding**, Royal Agricultural College, Cirencester, UK. (Sept. 2000, p. 980)

17–21 **2nd WSES Conference: Algorithms Theory, Discrete Mathematics, Systems and Control (ADISC 2001)**, Cairns, Queensland, Australia. (June/July 2001, p. 630)

17–22 **First Announcement and Call for Papers, The Second International Congress of Chinese Mathematicians (ICCM 2001)**, The Grand Hotel, Taipei, Taiwan. (Apr. 2001, p. 439)

19–21 **International Conference on Statistics, Combinatorics and Related Areas and The Eighth International Conference of the Forum for Interdisciplinary Mathematics**, University of Wollongong, Wollongong, NSW, Australia. (Mar. 2001, p. 338)

20–23 **The First International Conference of the New Millennium on History of Mathematical Sciences**, Ramjas College, University of Delhi, Delhi, India. (Oct. 2001, p. 1049)

## January 2002

2–4 **Seventh International Symposium on Artificial Intelligence and Mathematics**, Fort Lauderdale, Florida. (Nov. 2001, p. 1227)

5–10 **Mathematics and Molecular Biology VII: Modeling across the Scales—Atoms to Organisms**, La Fonda Hotel, Santa Fe, New Mexico. (Nov. 2001, p. 1227)

6–9 **Joint Mathematics Meetings**, San Diego Convention Center, San Diego, California. (Nov. 1998, p. 1378)

7–12 **International Conference on Long Range Dependent Stochastic Processes and Their Applications**, Indian Institute of Science, Bangalore, India. (Oct. 2001, p. 1049)

7–12 **School on Stochastic Partial Differential Equations and Applications—VI**, Grand Hotel Bellavista, Levico, Terme (Trento), Italy. (Aug. 2001, p. 750)

9–12 **International Conference on Inverse Problems—Recent Development in Theories and Numeric**, City University of Hong Kong, Hong Kong. (June/July 2001, p. 630)

11–15 **NSF-CBMS Regional Research Conference Arrangements and Mathematical Physics**, Louisiana State University, Baton Rouge,

Louisiana. (Sept. 2001, p. 906)

14–17 **International Conference on Combinatorial Matrix Theory**, Postech, Pohang, Korea. (June/July 2001, p. 630)

21–25 **2nd MaPhySto Conference on Lévy Processes—Theory and Applications**, University of Aarhus, Denmark. (Sept. 2001, p. 906)

21–28 **Winter School on Computations in Coxeter Groups**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 750)

21–February 1 **DynamicSummer: Topics in Nonlinear Dynamics**, The Australian National University, Canberra, Australia. (Nov. 2001, p. 1227)

28–February 1 **The International Conference on Factorization, Singular Operators and Related Problems, Dedicated to the 70th Anniversary of Professor Gueorgui Litvinchuk**, Madeira University, Madeira, Portugal. (June/July 2001, p. 630)

## February 2002

1–April 30 **Special Research Trimester on Dynamical Systems**, Scuola Normale Superiore, Pisa, Italy. (Oct. 2001, p. 1049)

2–3 **9th Southern California Geometric Analysis Seminar**, University of California at Irvine, Irvine, California. (June/July 2001, p. 630)

13–15 **DIMACS Workshop on Internet and WWW Measurement, Mapping and Modeling**, DIMACS Center, Rutgers University, Piscataway, New Jersey. (Nov. 2001, p. 1227)

21–23 **Pacific Institute for Mathematical Sciences (PIMS) Workshop on Representations of Reductive p-Adic Groups**, Banff, Alberta, Canada. (Nov. 2001, p. 1228)

27–March 3 **Group Actions on Rational Varieties**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 750)

## March 2002

4–6 **RTST 2002: Research Trends in Science and Technology**, Lebanese American University, Beirut and Byblos, Lebanon. (Oct. 2001, p. 1050)

15–17 **SEAM XVIII (South Eastern Analysis Meeting XVIII)**, University of North Carolina, Chapel Hill, North Carolina. (Nov. 2001, p. 1228)

15–17 **The 49th Midwest Partial Differential Equations Seminar in Honor of David Adams, Ron Gariepy, and John Lewis**, University of Kentucky, Lexington, Kentucky. (Sept. 2001, p. 906)

18–20 **International Conference on Algebra and Its Applications**, Chulalongkorn University, Bangkok, Thailand. (Sept. 2001, p. 906)

21–22 **8th Rhine Workshop on Computer Algebra**, Mannheim, Germany. (May 2001, p. 531)

21–23 **Spring Topology and Dynamics Conference**, University of Texas, Austin, Texas. (Aug. 2001, p. 751)

26–30 **The 2002 UAB International Conference on Differential Equations and Mathematical Physics**, University of Alabama at Birmingham, Birmingham, Alabama. (Aug. 2001, p. 751)

26–April 4 **Instructional Conference on Combinatorial Aspects of Mathematical Analysis**, International Centre for Mathematical Sciences, Edinburgh, UK. (June/July 2001, p. 630)

## April 2002

1–6 **International Workshop on Relaxation Oscillations and Hysteresis**, University College Cork, Cork, Ireland. (Oct. 2001, p. 1050)

\* 8–10 **DIMACS Workshop on Complexity in Biosystems: Innovative Approaches at the Interface of Experimental and Computational**

**Modeling**, DIMACS Center, Rutgers University, Piscataway, New Jersey.

**Short Description:** The goal of this workshop is to bring together scientists currently working in the novel field of complex biosystems modeling and simulations from different points of view and “newcomers” interested in getting involved in this exciting research area. The focus is on challenging interface between experimental modeling (e.g. assay design and engineering) and computational simulation. The goal is to introduce and discuss innovative concepts, experimental and computational biosystems models and mathematical algorithms, as well as to establish new collaborations beyond institutional or departmental boundaries.

**Sponsor:** DIMACS Center.

**Organizers:** T. Deisboeck, Harvard Medical School; L. Segel, Weizmann Institute; E. Sontag, Rutgers Univ.; R. Winslow, The Johns Hopkins University.

**Contacts:** T. Deisboeck, Harvard Medical School, deisboec@helix.mgh.harvard.edu.

**Local Arrangements:** J. Herold, DIMACS Center, jessicah@dimacs.rutgers.edu, 732-445-5928.

**Information:** <http://dimacs.rutgers.edu/Workshops/index.html>

8–19 **Invariant Theory**, Queen’s University, Kingston, Ontario, Canada. (Aug. 2001, p. 751)

22–24 **Heat Transfer 2002: Seventh International Conference on Advanced Computational Methods in Heat Transfer**, Halkidiki, Greece. (Nov. 2001, p. 1228)

30–May 17 **Concentration Period on the Langlands Programme for Function Fields**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 751)

### May 2002

19–25 **Canadian Number Theory Association–VII Meeting**, Centre de Recherches Mathématiques (CRM), Montréal (Québec), Canada. (Nov. 2001, p. 1228)

20–21 **Improving the Reasoning of College Students**, Virginia Commonwealth University, Richmond, Virginia. (Oct. 2001, p. 1050)

20–25 **6th International Conference on Clifford Algebras and Their Applications in Mathematical Physics**, Tennessee Technological University, Cookeville, Tennessee. (Aug. 2001, p. 751)

20–31 **Tamagawa Numbers and Special Values of L-Functions**, Institut Galilée, Université Paris 13, France. (Oct. 2001, p. 1050)

24–27 **The Fourth International Conference on “Dynamical Systems and Differential Equations”**, University of North Carolina at Wilmington, Wilmington, North Carolina. (Aug. 2001, p. 751)

27–June 10 **Computational Lie Theory**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 751)

### June 2002

3–8 **Abel Bicentennial Conference 2002**, University of Oslo, Oslo, Norway. (Nov. 2001, p. 1228)

4–13 **3rd Linear Algebra Workshop**, Bled, Slovenia. (Sept. 2001, p. 908)

5–9 **A Conference in Honour of Hans Wallin**, Umeå, Sweden. (Oct. 2001, p. 1050)

\* 6–15 **Fourth International Conference on Geometry, Integrability and Quantization**, Sts. Constantine and Elena resort (near Varna), Bulgaria.

**Goal:** This fourth edition of the conference aims, like the previous ones, to bring together experts in classical and modern differential geometry, complex analysis, mathematical physics, and related fields in order to assess recent developments in these areas and to stimulate research in related topics.

**Organizers:** I.M.Mladenov, mladenov@bgcict.acad.bg; G.L.Naber, gnaber@csuchico.edu.

**Information:** For more information please visit the conference Web page, <http://obzor.bio21.bas.bg/conference/>.

10–13 **The Tenth Conference of the International Linear Algebra Society**, Auburn University, Auburn, Alabama. (June/July 2001, p. 630)

10–15 **Algebraic Transformation Groups**, Centre de Recherches Mathématiques (CRM), Université de Montréal, Montréal (Québec), Canada. (Aug. 2001, p. 752)

10–16 **Aarhus Topology 2002**, University of Aarhus, Aarhus, Denmark. (Jan. 2001, p. 55)

12–15 **Bachelier Finance Society: 2nd World Congress**, Crete, Greece. (Nov. 2001, p. 1228)

13–15 **19th Annual Workshop in Geometric Topology**, Calvin College, Grand Rapids, Michigan. (Nov. 2001, p. 1228)

17–19 **24th International Conference on Boundary Element Methods and Meshless Solutions Seminar**, Sintra, Portugal. (Nov. 2001, p. 1228)

17–21 **Seventh International Conference on p-Adic Functional Analysis**, University of Nijmegen, The Netherlands. (June/July 2001, p. 630)

23–28 **Fourteenth U.S. National Congress of Theoretical and Applied Mathematics**, Virginia Polytechnic Institute and State University, Blacksburg, Virginia. (Dec. 2000, p. 1437)

24–28 **Tenth International Conference on Fibonacci Numbers and Their Applications**, Flagstaff, Arizona. (Oct. 2001, p. 1050)

25–29 **The Twenty-sixth Summer Symposium in Real Analysis**, Washington and Lee University, Lexington, Virginia. (Oct. 2001, p. 1050)

30–July 14 **5th Summer School/Conference: Let’s Face Chaos through Nonlinear Dynamics**, Maribor, Slovenia. (Aug. 2001, p. 752)

### July 2002

1–6 **2nd International Conference on the Teaching of Mathematics**, Crete, Greece. (June/July 2001, p. 631)

\* 8–12 **An International Conference on Boundary and Interior Layers—Computational & Asymptotic Methods**, University of Western Australia, Perth, Australia.

**Information:** All details can be found at <http://thysanotus.maths.uwa.edu.au/general/BAIL2002/>.

\* 8–19 **SMS-NATO ASI: Normal Forms, Bifurcations, and Finiteness Problems in Differential Equations**, Université de Montréal, Canada.

**Program:** Differential equations, normal forms, bifurcations, cyclicity, families of vector fields, analytic invariants, finiteness problems of differential equations.

**Invited Speakers:** A. Bolibrukh, F. Dumortier, J. Ecalle, V. Gelfreich, A. Glutsuk, J. Guckenheimer, Y. Ilyashenko, V. Kaloshin, A. Khovanskii, J.-P. Ramis, R. Roussarie, C. Rousseau, D. Schlomiuk, S. Yakovenko.

**Application Deadline:** February 28, 2002.

**Information:** <http://www.dms.umontreal.ca/sms/>; e-mail: sms@dms.umontreal.ca.

\* 9–13 **Genetic and Evolutionary Computation Conference GECCO-2002**, New York City, New York.

**Topics:** Genetic algorithms (GA); genetic programming (GP); evolution strategies (ES); evolutionary programming (EP); evolvable hardware (EH); evolutionary robotics (ER); real-world applications (RWA); classifier systems (CS); DNA, molecular and quantum computing (DNA); artificial life, adaptive behavior and agents, and ant colony optimization (AAAA); methodology, pedagogy, and philosophy (MPP); evolutionary scheduling and routing (ESR), and other areas to be announced.

**Conference Chair:** E. Cantu-Paz, Lawrence Livermore National Laboratory.

**Editor-in-Chief of Proceedings:** W. Langdon.

**Chairs of Program Policy Committees:** GP: R. Poli; GA: K. Mathias; ES & EP: G. Rudolph; RWA: L. D. Davis.

**Information:** For technical matters and tutorial proposals contact E. Cantu-Paz, General Chair, [cantupaz@llnl.gov](mailto:cantupaz@llnl.gov). For administrative matters contact [gecco@aaai.org](mailto:gecco@aaai.org), <http://www.isgsec.org/GECCO-2002/>.

**13-19 Symbolic Computational Algebra 2002: Fields Institute Special Meeting on Symbolic and Numeric Computation in Geometry, Algebra and Analysis**, Univ. of Western Ontario, London, Ontario, Canada. (Sept. 2001, p. 909)

**14-18 The Fourth International Conference on Matrix Analytic Methods in Stochastic Models**, University of Adelaide, Adelaide, Australia. (June/July 2001, p. 631)

**15-20 IV Brazilian Workshop on Continuous Optimization**, IMPA-Instituto de Matematica Pura e Aplicada, Rio de Janeiro, Brazil. (Nov. 2001, p. 1229)

\* **15-August 10 Conference on Representation Theory of Algebras and Related Topics (ICRA X)**, The Fields Institute for Research in Mathematical Sciences, Toronto, Canada.

**Description:** The purpose of these meetings is not only to exchange the latest result in a rapidly developing area but to bring together leading and well-established experts with young researchers just starting out who will profit greatly from the possibilities of exchange and contact provided and from workshops where recent advances are presented in detailed exposition. July 15-July 20, 2002: Instructional Workshop; July 22-July 31, 2002: The 10th International Conference on Representations of Algebras (ICRA X); August 1-August 10, 2002: Specialized Workshops. At this point the list of specialized workshops is still tentative, as the time leading up to the proposed programme is certain to produce developments that will have to be taken into account. Currently 3 specialized workshops are being organized: (i) Commutative Algebra, Algebraic Geometry and Representation Theory; (ii) Finite Dimensional Algebras, Algebraic Groups and Lie Theory; (iii) Quantum Groups and Hall Algebras.

**Organizers:** S. Berman, Y. Billig, R.-O. Buchweitz, V. Dlab, E. Neher, S. Liu.

**Information:** <http://www.fields.utoronto.ca/programs/scientific/02-03/ICRA-X/> or contact [icrax@fields.utoronto.ca](mailto:icrax@fields.utoronto.ca).

**23-August 2 EDGE Mid-Term Summer School and Conference**, ICMS, Edinburgh, Scotland, UK. (Nov. 2001, p. 1229)

**29-August 10 50 Years of the Cauchy Problem in General Relativity-Summer School**, Corsica, France. (Oct. 2001, p. 1050)

## August 2002

**3-10 Logic Colloquium 2002 (ASL European Summer Meeting)**, Westfälische Wilhelms-Universität, Münster, Germany. (June/July 2001, p. 631)

**5-9 Conference on Ill-Posed and Inverse Problems**, Sobolev Institute of Mathematics, Novosibirsk, Russia. (Sept. 2001, p. 909)

**5-15 New Directions in Dynamical Systems 2002 (ICM 2002 Satellite Conference)**, Ryukoku University and Kyoto University, Kyoto, Japan. (June/July 2001, p. 631)

**7-10 The Second International Conference on Neural, Parallel, and Scientific Computations**, Morehouse College, Atlanta, Georgia. (Nov. 2001, p. 1229)

\* **7-12 Marsden Workshop on Geometry, Mechanics and Dynamics**, The Fields Institute for Research in Mathematical Sciences, Toronto, Canada.

**Description:** The workshop will be organized along the seven main themes of Professor Marsden's work: (1) geometric mechanics, (2)

fluid mechanics, (3) elasticity and analysis, (4) numerical algorithms, (5) relativity and quantum mechanics, (6) geometric control theory (7) dynamical systems. The common thread running throughout is the use of geometric methods which serve to unify these diverse disciplines and help bring a wide variety of scientists and mathematicians together, speaking a language which encourages cross-fertilization. Professor Marsden is a unique figure in this regard, as his work has significantly influenced the three distinctly separate communities of mathematicians, physicists, and engineers. The workshop will bring together the world's leading figures in each of these seven theme areas who will give invited lectures.

**Organizers:** A. Bloch, P. Newton, T. Ratiu, S. Shkoller, A. Weinstein.

**Information:** [http://www.fields.utoronto.ca/programs/scientific/02-03/marsden\\_workshop/](http://www.fields.utoronto.ca/programs/scientific/02-03/marsden_workshop/) or contact [marsden60@fields.utoronto.ca](mailto:marsden60@fields.utoronto.ca).

**12-16 Infinite Dimensional Function Theory**, Pohang University of Science and Technology (POSTECH), Pohang, South Korea. (Nov. 2001, p. 1229)

**12-16 Integrability and Topology**, South Ural State University, Chelyabinsk, Russia. (Sept. 2001, p. 910)

**12-16 MTNS 2002, Fifteenth International Symposium on Mathematical Theory of Networks and Systems**, University of Notre Dame, Notre Dame, Indiana. (Dec. 2001, p. 1437)

**15-17 (NEW DATE) Symposium on Stochastics and Applications (SSA)—An ICM-2002 Satellite Conference**, National University of Singapore, Singapore. (June/July 2001, p. 631)

\* **15-18 The International Conference on Mathematical Biology (a Satellite Meeting of ICM-2002)**, Guangxi Normal University, Guilin, Guangxi Province, P. R. China.

**Topics:** Scientific Program Sessions: Mathematical Ecology, Epidemiology, Biometrics, Bio-informatics, Mathematical Neuroscience, Related Mathematical Problems in Biology.

**Organizers:** The Chinese Society of Biomathematics, CMS.

**Academic Committee:** R. M. May (U.K.), L. Chen (China), K. Sigmund (Austria). Members: Castillo-Chavez (USA), B. D. Sleeman (U.K.), F. Brauer (Canada), G. Lu (China), H. L. Smith (USA), J. Wu (Canada), J. M. Cushing (USA), J. Zhu (China), L. Liu (China), L. M. Ricciardi (Italy), O. Diekmann (Netherlands), P. Waltman (USA), S. A. Levin (USA), S. Ruan (Canada), S. Rionero (Italy), T. Yanagawa (Japan), T. G. Hallam (USA), Y. Kuang (USA), Z. Lu (China), Z. Ma (China), Z. Shen (China).

**Information:** <http://math.la.asu.edu/~kuang/guilin.html>. For further information, please contact Xiao-he Qin or Jia-yi Dai, Conference Secretariat, Office of International Exchanges, Guangxi Normal University, Guilin, 541001, China; tel: (0086) 773-5850305 or (0086) 773-5850311; fax: (0086) 773-5850305 or (0086) 773-5812383; e-mail: [gxnu@public.gpltt.gx.cn](mailto:gxnu@public.gpltt.gx.cn).

**20-28 ICM-2002**, Beijing, China. (Oct. 2000, p. 1146)

**20-28 Satellite Conferences for ICM 2002**, Beijing, China. (Aug. 2001, p. 752)

**24-28 Compstat 2002—Conference for Computational Statistics**, Humboldt-Universität zu Berlin, Berlin, Germany. (Nov. 2001, p. 1229)

\* **26-28 The Sixth Iranian International Statistics Conference (ISC6)**, Tarbiat Modarres University, Tehran, Iran.

**Sponsor:** The Iranian Statistical Society.

**Description:** The program includes invited and contributed talks in the areas of theory and applications of statistics and probability, short introductory sessions on current popular fields in statistics, sessions on promoting statistical culture in the society, and sessions on statistical education. Presenters of accepted papers from abroad will be exempt from registration fees, local hotel and meal expenses.

**Information:** For more information please contact Department of Statistics, Tarbiat Modarres University, P.O. Box 14115 -175, Tehran, Iran; tel: +98 (21) 8003388; fax: +98 (21) 8013658; e-mail: [ISC6@modares.ac.ir](mailto:ISC6@modares.ac.ir); <http://www.modares.ac.ir/isc6/>.

29–September 2 **International Conference on Nonlinear Partial Differential Equations—Theory and Approximation**, City University of Hong Kong, Hong Kong. (Nov. 2001, p. 1229)

## September 2002

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September–December 2002 **Set Theory and Analysis Program**, The Fields Institute, Toronto, Ontario, Canada. (Oct. 2001, p. 1051)

4–7 **International Conference on Dynamical Methods for Differential Equations**, Medina del Campo, Valladolid, Spain. (Oct. 2001, p. 1051)

13–14 **Topics in Linear Algebra**, Iowa State University, Ames, Iowa. (Oct. 2001, p. 1051)

20–25 **International Conference on Computational and Mathematical Methods in Science and Engineering (CMMSE 2002)**, Alicante, Spain. (Oct. 2001, p. 1051)

23–27 **Ramification in Arithmetic and Geometry**, Institut Galilée, Université Paris 13, France. (Oct. 2001, p. 1051)

\* 23–28 **Workshop on Categorical Structures for Descent and Galois Theory, Hopf Algebras and Semiabelian Categories**, The Fields Institute for Research in Mathematical Sciences, Toronto, Canada.

**Description:** The goal of the meeting is to spread and to advance categorical methods and their application amongst researchers working in three overlapping areas of algebra, namely in the study of: (i) algebraic structures in monoidal categories and their classical examples, such as Hopf, Frobenius, and Azumaya algebras, and others, particularly those occurring in quantum field theory; (ii) Galois theory vis-a-vis Grothendieck's descent theory, as well as the general theory of separability and decidability, applied particularly to the structures mentioned in (i); (iii) homological algebra of nonabelian structures, such as groups, rings and (associative or Lie) algebras, and its extension to the structures mentioned in (i).  
**Organizers:** G. Janelidze, B. Pareigis, W. Tholen.

**Information:** [http://www.fields.utoronto.ca/programs/scientific/02-03/galois\\_and\\_hopf/](http://www.fields.utoronto.ca/programs/scientific/02-03/galois_and_hopf/) or contact [tholen@mathstat.yorku.ca](mailto:tholen@mathstat.yorku.ca).

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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.

## January 2003

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\* January–August **Thematic Program on Automorphic Forms**, The Fields Institute for Research in Mathematical Sciences, Toronto, Canada.

**Description:** The theory of automorphic forms is a wide and deep subject touching many areas of mathematics. Our purpose is to concentrate on the geometric and analytic aspects of the subject. These have far-reaching applications in classical number theory. The Langlands-Shahidi method and the converse theorem of Cogdell-Piatetski-Shapiro have seen exciting new developments recently. These include new cases of functoriality, as well as analytic continuation of symmetric power L-functions. The work of Kim-Shahidi will be one of the central themes of the program. The analytic theory of L-functions and its applications has also seen many advances in recent years. We hope to cover some aspects of these, especially those connected with the analyticity of symmetric power L-functions as well as those of Hasse-Weil zeta functions. An important problem is to express the Hasse-Weil zeta function of a Shimura variety in terms of automorphic L-functions. Here in order to define the local factors not just at primes of good reduction, we need to study the variety at the finite set of primes of bad reduction. Such a description would allow one to apply the aforementioned progress in L-functions to the study of deep arithmetic properties of these varieties. One of the major remaining obstacles to proving such a description is the so-called

“fundamental lemma”, a conjecture in local harmonic analysis that asserts the equality of certain orbital integrals on a p-adic group and on a related (endoscopic) group. We plan to review recent work of Goresky-Kottwitz-MacPherson and others which gives a geometric approach to this problem.

**Organizers:** J. Arthur, T. Haines, H. Kim, R. Murty, G. Pappas, F. Shahidi.

**Information:** To be informed of when registration is open and to receive updates about the Thematic Program on Automorphic Forms, please subscribe to the mail list at <http://www.fields.utoronto.ca/maillist/>, or contact [automorphic@fields.utoronto.ca](mailto:automorphic@fields.utoronto.ca).

## May 2003

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\* 3–5 **First International Conference on Smarandache Geometries**, Griffith University, Gold Coast Campus, Australia.

**Description:** An axiom is said to be smarandachely denied if in the same space the axiom behaves differently (i.e., validated and invalidated or only invalidated, but in at least two distinct ways). A Smarandache geometry is a geometry which has at least one smarandachely denied axiom (1969). Thus, as a particular case, Euclidean, Lobachevsky-Bolyai-Gauss, and Riemannian geometries may be united altogether, in the same space, by some Smarandache geometries. These last geometries can be partially Euclidean and partially non-Euclidean. It seems that Smarandache geometries are connected with the theory of relativity (because they include the Riemannian geometry in a subspace) and with the parallel universes.

**Speakers:** M. Antholy (Canada), H. Iseri (USA), M. Bencze (Romania).

**Deadline for Submission of Abstracts:** April 30, 2003. Papers are welcome and will be published in a collected papers book. See a club about these geometries at <http://clubs.yahoo.com/clubs/smarandachegeometries/>.

**Information:** J. Allen, Office 2.36 Education Building, Griffith University, Gold Coast Campus, Australia. Conference home page: <http://www.gallup.unm.edu/~smarandache/geometries.htm>.