Mathematics Calendar

September 2011

1-3 **Algebraic Representation Theory Conference**, Uppsala University, Uppsala, Sweden. (Mar. 2011, p. 496)
Invited speakers: Henning Haahr Andersen (Århus); Igor Burban (Bonn); Maud De Visscher (London); Berhnard Keller (Paris); Paul Martin (Leeds); Vanessa Miemietz (UEA); Sergey Mozgovoy (Oxford); Steffen Oppermann (Trondheim).
Organizer: Volodymyr Mazorchuk (Uppsala)
Information: `http://www.math.uu.se/Conference/`.

1-3 **Elementary Geometry from an Advanced Point of View**, University of Aveiro, Aveiro, Portugal. (Jun/Jul. 2011, p. 856)
Description: The general aim of the conference is to present several contemporary perspectives on Geometry including, among others, talks on visualization, applications and surveys, both at elementary and more advanced levels. The goal is to contribute to the current international reflection on the ICMI/IMU Klein Project concerning central topics on Geometry, its contents, interdisciplinary connections and approaches for the teaching of this mathematics discipline at senior secondary school and first years at University level. The conference includes the Workshop "EnsGeo I" to be held on September 3 (last day of the conference), focused on dissertation works in Geometry carried out on Graduate courses in Mathematics for Teaching.
Information: `http://c3.glocos.org/egapv2011/`.

1-3 **26th British Topology Meeting**, ICMS, South College Street, Edinburgh, England. (Aug. 2011, p. 1010)
Description: The 26th annual British Topology Meeting will take place at ICMS in Edinburgh September 1-3, 2011.
Invited speakers: Javier Aramayona (Galway), Stefan Friedl (Cologne), Jacob Rasmussen (Cambridge), Saul Schleimer (Warwick), Catharina Stroppel (Bonn), Ulrike Tillmann (Oxford) and Karen Vogtmann (Cornell).

Registration: Participants are required to register by August 1, 2011. See `http://www.maths.gla.ac.uk/~ajb/btop/btop-meetings.html|` for a list of previous British Topology Meetings.
Organizer: Jim Howie (Heriot-Watt) and Andrew Ranicki (Edinburgh).
Information: `http://www.icms.org.uk/workshops/btm`.

2-6 **Polynomial Identities in Algebras. II.**, Memorial University of Newfoundland, St. John's, NL, Canada. (Aug. 2011, p. 1010)
Description: The workshop is organized by Atlantic Algebra Centre and financially supported by Atlantic Association for Research in the Mathematical Sciences and Memorial University of Newfoundland. The first workshop under the same title was held at Memorial University of Newfoundland in August – September 2002. Since then the theory of polynomial identities in algebra has experienced a strong development. A number of problems have been solved. New methods have been introduced, in particular, the methods developed in the theory of group gradings of associative, Lie and Jordan algebras. In addition to traditional combinatorial methods, people working on polynomial identities make more frequent use of the representation theory, the theory of Hopf algebras, and techniques involving computers. The aim of this workshop is to survey the main achievements in the area for the last 9 years, discuss the current progress and to determine future directions and outstanding problems.
Information: `http://www.mun.ca/aac/Workshops/NextWork/`.

3-9 **10th International Conference on Geometry and Applications**, Geometrical Society "Boyan Petkanchin", Sofia, Bulgaria. (Apr. 2011, p. 628)
Description: 10th International Conference on Geometry and Applications is organized from Geometrical Society "Boyan Petkanchin" in Bulgaria. The following fields are included: differential geometry,

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finite geometries, computer methods in geometry, algebra and analysis, education in the school and university by computers, didactic of mathematics.
Information: Please contact: Prof. Dr. Grozio Stanilov; `stanilov@fmi.uni-sofia.bg` and Chavdar Lozanov; `lozanov@fmi.uni-sofia.bg`.

* 4–8 **International Symposium of Geometric Function Theory and Applications**, Babes-Bolyai University, Cluj-Napoca, Romania.
Description: The aim of the conference is to bring together leading experts as well as young researchers working on topics mainly related to Univalent Functions and Geometric Function Theory with applications in various areas of mathematics and to present their recent work to the mathematical community. The conference is mainly dedicated to the 80th birthday of Professor Petru T. Mocanu.
Topics: Univalent and multivalent functions, special functions and series, differential subordinations, conformal and quasiconformal mappings, geometric function theory in several complex variables, potential analysis and applications, other areas related to GFTA.
Information: `http://www.uab.ro/conference/gfta/`.

5–9 **AGMP&MP2 Summer School: Mathematical Topics in Quantum Mechanics and Quantum Information**, Tjärnö, Sweden. (May 2011, p. 743)
Description: The aim of the Summer School is to introduce Ph.D. students and junior researchers of mathematical and physical specialities to mathematical methods of quantum mechanics and quantum information.
Information: `http://www.agmp.eu/3q11/`.

5–9 **5th International Conference on Stochastic Analysis and Applications**, Bonn, Germany. (Jun/Jul. 2011, p. 856)
Description: The main topics of the conference will be (but not limited to) A. Dirichlet forms and stochastic analysis B. Jump processes C. Stochastic partial differential equations D. Stochastic analysis and geometry E. Optimal transport and allocation problems F. Functional analysis G. Random media, percolation clusters and fractals H. Stochastic models in physics and biology. These areas are strongly related to each other and have been very active in recent years. They occupy a central place in modern probability theory and analysis. The primary goal of the conference is to bring researchers in areas listed above, from all over the world, to survey the fields, exchange ideas and to foster future collaborations. Another important goal is to expose young researchers and Ph.D. students to the most recent developments in active areas of probability theory. Deadline for submitting a talk: May 1st. Conference fee of 90(euro) for non-students and 60 for students to be paid on arrival.
Information: `http://icsaa.iam.uni-bonn.de/`.

* 5–9 **European Women in Mathematics (EWM)**, Centre de Recerca Matemàtica, Bellaterra, Barcelona.
Description: This meeting is the 15th general meeting of European Women in Mathematics (EWM), and is being held with the support of the Foundation Compositio Mathematica. European Women in Mathematics is an international association of women working in the field of mathematics. Its aims are: a) to encourage women to study mathematics, b) to support women in their careers, c) to provide a meeting place for like-minded people, d) to promote scientific communication, e) to cooperate with groups and organizations with similar goals, f) to gather and provide information on women in mathematics.
Information: `http://www.crm.cat/ewm`.

5–9 **Nonlinear Dynamics Conference in Memory of Alexei Pokrovskii**, University College Cork, Cork, Ireland. (Jun/Jul. 2011, p. 857)
Description: The aim of this meeting is to honour the memory and work of Alexei Pokrovskii, an eclectic mathematician and a pioneer in the mathematical theory of systems with hysteresis, who unexpectedly died on September 1, 2010, aged 62. For the last nine years Alexei was Professor and Head of Department of Applied Mathematics at University College Cork. Topics of this conference will reflect the diversity of Alexei's contribution to science and will include nonlinear dynamical systems, systems with hysteresis, chaos and complexity, stochastic systems, control theory, nonlinear functional analysis, singularly perturbed systems and mathematical modeling for applications in engineering, physics, biology and economics. Sponsors: KE Consulting Group (Cork), Tyndall National Institute (Cork).
Information: `http://www.ucc.ie/en/euclid/NonlinearDynamicsConferenceinMemoryofAlexeiPokrovskii/`.

5–9 **RSME2011 Congress of Young Researchers**, Campus Duques de Soria Universidad de Valladolid soria, Spain. (Jun/Jul. 2011, p. 857)
Description: Congress devoted to young researchers in mathematics in ocasion of the Spanish Royal Mathematical Society centenary.
Information: `http://www.jirsme.uva.es/`.

5–10 **Toric Topology and Automorphic Functions**, Pacific National University, Khabarovsk, Russia. (May 2011, p. 743)
Program Committee: Victor Buchstaber (Steklov Mathematical Institute, Moscow, chairman); Mikhail Guzev (Institute of Applied Mathematics, Vladivostok, vice-chairman); Frederic Cohen (Rochester University, USA); Mikiya Masuda (Osaka City University, Japan); Taras Panov (Moscow State University); Iskander Taimanov (Sobolev Institute of Mathematics); Alexander Podgaev (Pacific National University).
Important dates: Deadline for registration: April 30, 2011. Deadline for submission of abstracts: May 30, 2011. Recommended arrival day: September 4, 2011. September 5–10, 2011: Conference.
Information: See `http://iam.khv.ru/ttaf-2011/the1st_announcement.htm`.

6–9 **VI International Meeting on Lorentzian Geometry. Granada 2011**, Science Faculty, University of Granada, Granada, Spain. (Aug. 2011, p. 1010)
Description: Lorentzian Geometry was born as a mathematical theory useful for General Relativity. Nowadays, it constitutes a branch of Differential Geometry where many mathematical techniques are involved (Lie groups and algebras, Partial Differential Equations, Geometric Analysis, Functional Analysis,...). This meeting is the sixth edition of a biennial series which started in 2001.
Topics: On pure and applied Lorentzian Geometry such as geodesics, submanifolds, causality, black holes, Einstein equations, geometry of spacetimes or AdS-CFT correspondence, will be covered. The meeting will include two minicourses imparted by professors Vladimir Chernov (Dartmouth College, USA) and Paolo Piccione (University of Sao Paulo, Brazil).
Information: `http://gigda.ugr.es/gelogra/`.

7–9 **Fourth International Workshop on Analysis and Numerical Approximation of Singular Problems (IWANASP 2011)**, University of Chester, Chester, United Kingdom. (Jun/Jul. 2011, p. 857)
Description: The mathematical modelling of physical problems often leads to differential or integral equations whose coefficients have singularities. The numerical treatment of such models requires: a) the correct formulation of problems and the analysis of qualitative behavior of solutions; b) the use of efficient numerical algorithms which take into account the singularities of the problems. The main objective of the present workshop is to bring together mathematicians who deal with problems of this kind in different fields. The workshop will focus on the asymptotic properties of the solutions of equations and discretization methods. The themes that will be discussed include: mathematical modelling of physical phenomena involving singularities; numerical solution of singular boundary value problems for ordinary differential equations; numerical integration of functions with singularities; computational methods for integral equations with singular kernels.

Information: `http://www.stochasticdelay.org.uk/IWANASP`.

7–9 **ICERM Semester Program - Kinetic Theory: Analysis and Computation**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 857)
Description: This semester-long program in kinetic theory and computation will provide the participants with an introduction to a broad range of analytical and computational aspects of kinetic theory. The program will be centered around three broad topics, for each of which an international workshop will be held.
Information: `http://icerm.brown.edu/sp-f11/`.

7–9 **IMA Hot Topics Workshop: Instantaneous Frequencies and Trends for Nonstationary Nonlinear Data**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Oct. 2010, p. 1166)
Description: In this workshop, we will explore the issues involved in trend determination and instantaneous frequency. This workshop will bring together experts from these areas to exchange ideas and identify new research opportunities for this emerging research area. One of the main objectives of the workshop is to promote research that leads to the discovery and understanding of the underlying processes in order to provide a base for building predictive models. An extension of the trend study is the problem of regression, which is also of great interest to a broad research community, including the econometrics/finance community.
Information: See `http://www.ima.umn.edu/2011-2012/SW9.7-9.11/`.

8–9 **New York Workshop on the Symmetric Group and Related Topics**, CUNY Graduate Center, Manhattan, New York. (Jun/Jul. 2011, p. 857)
Description: This workshop will focus on current research and new developments in the study of the symmetric groups. Topics will include: ordinary and modular theory of the symmetric groups and related groups, graded and hecke algebras, connections with geometry, and combinatorics, number theory and partitions.
Information: `http://symmetricgroup.commons.gc.cuny.edu/2010/10/03/ny-workshop-on-the-symmetric-group-and-related-topics/`.

9–10 **IV International Conference named by academician Ivan I. Lyashko—Computational and Applied Mathematics**, Deparment of Cybernetics of the Kiev National Taras Shevchenko University, Kiev, Ukraine. (Jun/Jul. 2011, p. 857)
Description: Main areas of the conference: computational mathematics optimal control and theory of extremal problems mathematical modelling filtration theory.
Information: `http://om.univ.kiev.ua/conf/`.

10–11 **AMS Eastern Section Meeting**, Cornell University, Ithaca, New York. (Sept. 2010, p. 1036)
Information: `http://www.ams.org/meetings/sectional/sectional.html`.

10–17 **International Conference "Harmonic Analysis and Approximations, V"**, Tsaghkadzor, Armenia. (Mar. 2011, p. 496)
Description: The conference will be held at Yerevan State University's guesthouse, Tsaghkadzor (Armenia). The conference is dedicated to the 75th anniversary of academician of NAS of Armenia Norair Arakelian.
Talks: The following mathematicians have agreed to give a plenary lecture at the conference: David Drasin (USA), Sergey Konyagin (Russia), Michael Lacey (USA), Svitlana Mayboroda (USA), Jurgen Muller (Germany), Konstantin Oskolkov (Russia), Wieslaw Plesniak (Poland), Alexei Shadrin (UK), Winfried Sickel (Germany), Mikhail Sodin (Israel), Vilmos Totik (Hungary and USA), Przemyslaw Wojtaszczyk (Poland)
Information: `http://math.sci.am/conference/sept2011/conf.html`.

11–15 **Israeli-Polish Mathematical Meeting**, University of Łódź´, Poland. (May 2011, p. 743)
Description: Israeli-Polish Mathematical Meeting is a joint initiative of the Polish Mathematical Society (PTM) and Israel Mathematical Union (IMU). The main purpose of the conference is to stimulate the exchange of new ideas in all aspects of mathematics. Mathematicians from other countries are also cordially invited to participate. The meeting program will cover many topics pertaining to mathematical research conducted in Israel and Poland. The meeting will consist of plenary lectures, thematic sections and other informal scientific discussions and social activities as well. All the talks will be in English. The meeting will be hosted by the University of Łódź´, Faculty of Mathematics and Computer Science, Łódź´, Poland. The conference will start in the morning of Monday, September 12, 2011 and end in the afternoon of Thursday, September 15, 2011.
Information: `http://imuptm.math.uni.lodz.pl`.

11–17 **14th International Conference on Functional Equations and Inequalities**, Mathematical Research and Conference Center, Bedlewo (near Poznan), Poland. (Apr. 2011, p. 628)
Description: The International Conference on Functional Equations and Inequalities - ICFEI has been organized by the Institute of Mathematics of the Pedagogical University of Cracow since 1984. The conference is devoted to functional equations and inequalities, their applications in various branches of mathematics and other scientific disciplines, as well as related topics. The 14th ICFEI is included in the programme of the Stefan Banach International Mathematical Center of the Polish Academy of Sciences.
Information: `http://mat.up.krakow.pl/icfei/14ICFEI/`.

11–17 (NEW DATE) **Turning Dreams into Reality: Transformations and Paradigm Shifts in Mathematics Education**, Rhodes University, Grahamstown, South Africa. (Feb. 2010, p. 307)
Description: International Conference of The Mathematics Education into the 21st Century Project.
Preliminary Announcement and Call for Papers: The Mathematics Education into the 21st Century Project has just completed its tenth successful international conference in Dresden, Germany, following conferences in Egypt, Jordan, Poland, Australia, Sicily, Czech Republic, Malaysia and the USA. Our project was founded in 1986 and is dedicated to the planning, writing and disseminating of innovative ideas and materials in Mathematics, Statistics, Science and Computer Education.
Organizing Committee: The chairman is Professor Marc Schafer of Rhodes University.
Information:
Deadline: For proposals has been extended to February 1, 2011. Even though the official deadline was February 1, 2011 we will continue to accept them, but please send them as soon as possible. There is now a "new" conference bank account for registration fees. For further conference details please email Alan Rogerson, Chairman of the International Programme Committee: `alan@rogerson.pol.pl`; `http://math.unipa.it/~grim/21project.htm`.

12–14 **Workshop on Fluid Dynamics in Porous Media**, Department of Mathematics of University of Coimbra, Coimbra, Portugal. (Jun/Jul. 2011, p. 857)
Description: The workshop on Fluid Dynamics in Porous Media is an initiative of the UT Austin–Portugal programme for Mathematics, in partnership with CMUC (Centre for Mathematics of University of Coimbra). The event focuses on mathematical models and numerical simulation in fluid dynamics in porous media bringing together mathematicians, engineers, geoscientists, and computing experts in a cooperative environment.
Invited speakers: Faruk Civan, University of Oklahoma, USA; Vivette Girault, Université Pierre et Marie Curie, France; Majid Hassanizaded, Utrecht University, Netherlands; Andro Mikelic, Université Claude Bernard Lyon 1, France; Roland Muggli, Galp E&P, Portugal; Paula de

Oliveira, University of Coimbra, Portugal; Daniel Tartakovsky, University of California, USA.
Information: `http://www.mat.uc.pt/~wfdpm`.

*12-15 **Geometry, Groups, and Topology**, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany.
Description: The conference will highlight recent advances in geometry, topology, and geometric group theory and aims at fostering communication between experts and young researchers as well as identifying potential new directions of further research in these fields.
Organizers: Anand Dessai (Fribourg), Enrico Leuzinger (Karlsruhe) and Wilderich Tuschmann (Karlsruhe).
Information: `http://www.math.kit.edu/iag5/seite/ggtconference`.

12-16 **8th International Conference on Combinatorics on Words, WORDS 2011**, Czech Technical University in Prague, Prague, Czech Republic. (Dec. 2010, p. 1498)
Description: The central topic of WORDS conferences is the mathematical theory of words (i.e., finite or infinite sequences of symbols taken from a finite alphabet) from all points of view: combinatorial, algebraic, algorithmic, as well as its applications to physics, biology, linguistics and others.
Information: `http://words2011.fjfi.cvut.cz/`.

12-16 **25th IFIP TC 7 Conference on System Modeling and Optimization**, University of Technology, Berlin, Germany. (Nov. 2010, p. 1349)
Description: The International Federation for Information Processing (IFIP) Technical Committee 7 - System Modeling and Optimization - arranges in a cycle of two years highly regarded conferences in Applied Optimization, with topics such as Optimal Control of Ordinary and Partial Differential Equations, Modeling and Simulation, Nonlinear, Discrete, and Stochastic Optimization and Industrial Applications.
Information: `http://www.ifip2011.de`.

12-16 **AIM Workshop: L^2 invariants and their relatives for finitely generated groups**, American Institute of Mathematics, Palo Alto, California. (Aug. 2010, p. 905)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the study of the asymptotic behavior of some natural invariants of finitely generated groups.
Information: `http://aimath.org/ARCC/workshops/l2invfggroups.html`.

12-16 **ISAM-TopMath Summer School 2011: Variational Methods**, Technische Universitaet, Muenchen, Germany. (Aug. 2011, p. 1010)
Description: This is a joint summer school of ISAM (International School of Applied Mathematics) and TopMath on `Variational Methods' open to graduate students and postdocs. A line-up of speakers who are both outstanding researchers and excellent presenters will give state-of-the-art insight into – variational evolution problems (Mielke/Berlin) – optimal transport (Sturm/Bonn) – optimal control of PDE (Casas/Santander) and – applications in materials science (Ortiz/CalTech). A limited amount of funding is available.
Information: `http://www.ma.tum.de/Mathematik/IsamSummerSchoolEn`.

12–December 16 **Mathematical and Computational Approaches in High-Throughput Genomics**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Sept. 2010, p. 1036)
Description: The goal of this long program is to bring together mathematical and computational scientists, sequencing technology developers in both industry and academia, and the biologists who use the instruments for particular research applications. This presents a unique opportunity to foster interactions between these three communities over an extended period of time and advance the mathematical foundations of this exciting field. We urge you to apply

as early as possible. Applications will be accepted through May 12, 2011, but decisions will be made starting in December.
Information: `http://www.ipam.ucla.edu/programs/gen2011/`.

12-16 **Satellite Meeting Unravelling and Controlling Discrete Dynamical Systems**, Vienna, Austria. (May 2011, p. 743)
Description: The Satellite Meeting Unravelling and Controlling Discrete Dynamical Systems is organized during the 8th European Conference on Complex Systems (ECCS).
Goals: Are fourfold: foster the interest in discrete dynamical systems; communicate the most recent advances on the means to quantitatively grasp and control discrete dynamical systems; perpetuate the dynamical systems point of view on the intriguing dynamics of cellular automata; gain insight into the dynamics of models based upon discrete modelling paradigms.
Deadline: For abstract submission: May 10, 2011.
Information: `http://www.disdysys.ugent.be/`.

12-16 **Summer School on Partial Differential Equations**, Märkisches Gildehaus, Caputh, Germany. (Aug. 2011, p. 1010)
Description: The aim of the Summer School is to offer young scholars the possibility to get an introduction to recent developments in partial differential equations and their applications by distinguished international experts. Lecture series are given by G. Huisken (MPI Golm), R. Klein (FU Berlin), H. Kozono (Tohoku), F. Otto (MPI Leipzig). The school addresses students working towards a Master's degree or a Ph.D. Young postdocs are also welcome. Scholarships are available which cover travel expenses and accommodation. For application details, please visit the website.
Information: `http://www.math-conf.uni-hannover.de/pde11`.

17-18 **40 Years and Counting: AWM's Celebration of Women in Mathematics**, Brown University, Providence, Rhode Island. (Jun/Jul. 2011, p. 858)
Description: 40 Years and Counting: 2011 is the 40th anniversary of the Association for Women in Mathematics (AWM). With this conference, AWM continues to celebrate the progress of women in mathematical professions and to recognize individual achievements. Join us this fall on the Brown University campus in historic Providence, RI.
Organizing Committee: Georgia Benkart (University of Wisconsin-Madison), Kristin Lauter (Microsoft Research), Jill Pipher (Brown University/ICERM).
Plenary Speakers: Andrea Bertozzi (UCLA), Laura DeMarco (University of Illinois at Chicago), Barbara Keyfitz (The Ohio State University), Hee Oh (Brown University).
Information: `http://icerm.brown.edu/events/awm-anniversary-2011/`.

*18-20 **International Workshop on Next Generation Intelligent Medical Decision Support Systems**, Petru Maior University, Targu Mures, Mures, Romania.
Description: The purpose of the workshop is to bring together researchers working in the main areas of Applications in the Medical Domain and the Healthcare Domain. The workshop proposes themes like: Applied mathematics, Medical decision support systems, Medical informatics, Efficient archiving of visual medical information, Archiving of biomedical signals, Management of large medical databases, Complex systems, Biostatistics, Artificial Intelligence applied in medicine, Intelligent medical systems. The guests are invited to present their recently achieved results, exchange ideas and cooperate in a friendly framework.
Information: `http://ncscs.upm.ro`.

18-21 **2011 Federated Conference on Computer Science and Information Systems (FedCSIS)**, Szczecin, Poland. (Aug. 2011, p. 1010)
Call for Papers: Papers should be submitted by June 19th, 2011, using the FedCSIS EasyChair submission system: `http://www.easychair.org/account/signin.cgi?conf=fedcsis2011`.

Accepted and presented papers will be published in the IEEE Xplore Digital Library proceedings entitled: "2011 Federated Conference on Computer Science and Information Systems (FedCSIS)." The IEEE proceedings will be published under nonexclusive copyright. The events' organizers arrange quality journals, edited volumes, etc. and will invite extended and revised papers for post-conference publications (information can be found at the web-sites of individual events).
Information: http://www.fedcsis.org.

18–22 **Getting started with PDE**, Technion- I.I.T., Haifa, Israel. (Jun/Jul. 2011, p. 858)
Description: The workshop's aim is to introduce graduate and advanced undergraduate students to a variety of subjects of current research in Partial Differential Equations and Applied Mathematics. The required prerequisites are familiarity with the basic material taught in undergraduate courses in mathematics.
Information: http://www.math.technion.ac.il/cms/decade_2011-2020/year_2010-2011/summer-workshop/.

18–24 **8th International Conference on Function Spaces, Differential Operators, Nonlinear Analysis (FSDONA-2011)**, Tabarz/Thuringia, Germany. (Apr. 2011, p. 628)
Description: This meeting will continue the series of previous successful FSDONA-conferences held in Finland, Czech Republic, and Germany: Sodankylä-88, Friedrichroda-92, Paseky-95, Syöte-99, Teistungen-01, Milovy-04, Helsinki-08. It is our intention to stimulate international collaboration, and to promote the interaction of function spaces, PDE and computational mathematics in unifying efforts. This time the focus will lie on the theory of function spaces and its applications to various fields of mathematics like: PDE's (existence of solutions and regularity theory), spectral theory of differential and integral operators, approximation and computational mathematics, nonlinear analysis, inverse problems.
Information: http://fsdona2011.uni-jena.de/.

* 19–21 **Quantum groups, categorification and braids**, IRMA, CNRS & Université de Strasbourg, 7 rue René Descartes, 67084 Strasbourg, Cedex, France.
Description: This conference is to be held on the occasion of Christian Kassel's 60th birthday.
Speakers: E. Aljadeff, D. Bar-Natan, J. Bichon, C. Blanchet, P. Dehornoy, D. Hernandez, B. Keller, M. Kontsevich, B. Leclerc, H.-J. Schneider, C. Soulé, C. Stroppel, V. Turaev, E. Vasserot, P. Vogel.
Information: http://www-irma.u-strasbg.fr/annexes/conferences/K60/index.html.

19–23 **Probabilistic Reasoning in Quantitative Geometry**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1010)
Description: "Probabilistic Reasoning in Quantitative Geometry" refers to the use of probabilistic techniques to prove geometric theorems that do not have any a priori probabilistic content. A classical instance of this approach is the probabilistic method to prove existence of geometric objects. Other examples are the use of probabilistic geometric invariants in the local theory of Banach spaces, the more recent use of such invariants in metric geometry, probabilistic tools in group theory, the use of probabilistic methods to prove geometric inequalities, the use of probabilistic reasoning to prove metric embedding results such as Bourgain's embedding theorem, probabilistic interpretations of curvature and their applications, and the use of probabilistic arguments in the context of isoperimetric problems.
Information: http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm574.

19–23 **The Sixteenth Asian Technology Conference in Mathematics (ATCM 2011)**, Abant izzet Baysal University, Bolu, Turkey. (Dec. 2010, p. 1498)
Description: The ATCM 2011 is an international conference to be held in Turkey that will continue addressing technology-based issues in all Mathematical Sciences. Thanks to advanced technological tools such as computer algebra systems (CAS), interactive and dynamic geometry, and hand-held devices, the effectiveness of our teaching and learning, and the horizon of our research in mathematics and its applications continue to grow rapidly. The aim of this conference is to provide a forum for educators, researchers, teachers and experts in exchanging information regarding enhancing technology to enrich mathematics learning,teaching and research at all levels. English is the official language of the conference.
Information: http://atcm2011.org.

19–23 **Workshop: Vlasov Models in Kinetic Theory**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 858)
Description: Vlasov-type models deal with continua of particles where the electric charges dominate the collisions, so that the collisions are ignored. They occur in physical plasmas, including astrophysical plasmas and fusion reactors. There are many examples of astrophysical plasmas of this type, such as the solar wind. When a fusion reactor is very hot, the relevant times scales are so short that collisions can be ignored. Vlasov theory also models systems where the dominant force is gravity, such as clusters of stars or galaxies.
Information: http://icerm.brown.edu/sp-f11/workshop-1.php.

19–25 **ICNAAM2011 Symposium: Semigroups of Linear Operators and Applications**, G-Hotels, Halkidiki, Greece. (Feb. 2011, p. 336)
Information:
Description: The 2nd Symposium on "Semigroups of Linear Operators and Applications" brings together researchers from all over the world to present new results in the theory of linear operators and its applications. Besides scheduling talks from established mathematicians, we will give opportunity to junior researchers to present their works.
Topics: Groups and semigroups of linear operators, one-parameter semigroups and linear evolution equations, Markov semigroups and applications to diffusion processes, Schrödinger and Feynman-Kac semigroups, operator sine and cosine functions, C-semigroups, integrated semigroups,diffusion processes,diffusion processes and Stochastic analysis on manifolds, selfadjoint operator theory in quantum theory, dynamic lattice systems.
Information: http://www.fih.upt.ro/personal/dan.lemle/Lemle_Simpozion_2011.htm.

19–26 **Conference on Geometric Structures in Mathematical Physics**, Albena, Bulgaria. (Apr. 2011, p. 628)
Description: The purpose of the conference is to bring together physicists and mathematicians working in related areas of geometry, geometric analysis and theoretical physics. The main focus will be on special geometric structures and their applications in differential and algebraic geometry, theoretical physics and string theory.
Information: http://www.fmi.uni-sofia.bg/ivanovsp/MathPhys2011.html.

22–25 **16th annual cum 2nd International Conference of Gwalior Academy of Mathematical Sciences (GAMS) & 2nd International conference of bioinformatics**, S. S. Dempo College of Commerce and Economics, Altinho Panaji Goa, India. (Jun/Jul. 2011, p. 858)
Description: (GAMS) is a forum for activities on Mathematical Modeling of real life problems, launched in 1994 at School of Mathematics and Allied Sciences, Jiwaji University, Gwalior, India. Besides publishing "GAMS Journal of Mathematical Biosciences", it holds annual conferences every year, international conference every 4 years, organizes workshops and similar research level programs. Now GAMS is going to organize the Second International Conference besides the 16th Annual Conference. Original research papers are invited for presentation at the conference. Intended participants are invited to submit abstracts not exceeding 250 words on A-4 size paper in double spacing by April 30, 2011. Acceptance of the papers will be

sent by June 6 2011. The abstracts may also be sent by email to: bioinfo2011@gmail.com.

Organizers: The event is jointly organized by GAMS and S. S. Dempo College of Commerce and Economics, Altinho, Panaji Goa.

Information: http://www.gamsinfo.com.

22–25 **The 19th conference on applied and industrial mathematics CAIM 2011**, "Ion Ionescu de la Brad" University, Mihail Sadoveanu Lane, 3, 700490, Iasi, Romania. (Jun/Jul. 2011, p. 858)

Description: The Romanian Society of Applied and Industrial Mathematics (ROMAI), "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine of Iasi (UASVM), The Academy of Romanian Scientists (ARS), the Faculty of Mathematics of the "Al. I. Cuza" University of Ias (UAIC), "Gh. Asachi" Technical University of Iasi (TUI) and the Romanian Mathematical Society, Iasi branch announce the organization of the 19th Conference on Applied and Industrial Mathematics – CAIM 2011.

Information: http://www.uaiasi.ro/caim2011/.

24–25 **AMS Western Section Meeting**, Wake Forest University, Winston Salem, North Carolina. (Sept. 2010, p. 1036)

Information: http://www.ams.org/meetings/sectional /sectional.html.

25–October 2 **II International Conference "Optimization and Applications" (OPTIMA-2011)**, Petrovac, Montenegro. (Jun/Jul. 2011, p. 858)

Call for participation: September 25–October 2, 2011, Montenegrin Academy of Sciences and Arts, University of Montenegro and Dorodnicyn Computing Center Russian Academy of Sciences will organize Second International conference "Optimization and Applications" (OPTIMA-2011). Abstracts of the talks are invited.

Conference themes: Mathematical programming, Global optimization, Nondifferential Optimization, Integer Programming and Combinatirial Optimization, Multicriteria Optimization, Equilibrium programming, Game Theory, Optimal Control, Applications in natural sciences, engineering, economics, biology, medicine, etc.

Information: http://www.ccas.ru/optima2011/.

26–30 **Function Spaces, Weights, and Variable Exponent Analysis**, Centre de Recerca Matemàtica (CRM), Bellaterra, Barcelona, Spain. (Aug. 2011, p. 1011)

Description: The conference is aimed to discuss the current state of the theory of function spaces. In particular, the conference will cover the following topics: Function Spaces of Real Variables (Lebesgue, Lorentz, Orlicz, Sobolev, Nikol'skii-Besov, Lizorkin-Triebel, Morrey, Campanato), Embedding/Duality/Extension theorems, Weights, Weighted inequalities, generalized Lebesgue-Sobolev spaces of variable order. The main topics planned include: 1. Mapping properties of the main operators of harmonic analysis in the classical (Lebesgue, Lorentz, Orlicz, Sobolev, Morrey) spaces and the variable exponent Lebesgue spaces. 2. Spaces with weights, properties of weighted classes, boundedness of operators in the weighted spaces. 3. Approximation theory problems in various function spaces. 4. Spaces of functions with Hölder exponent varying from point to point.

Information: http://www.crm.cat/cspaces/.

26–30 (NEW DATE) **IMA Workshop: High Dimensional Phenomena**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Oct. 2010, p. 1166)

Description: The time is ripe to foster a direct cross-fertilization between the communities in geometric functional analysis, high dimensional geometry and probability and various information theory communities. This workshop will bring together researchers from these communities, including those already at work at the interface, as well as young investigators entering one of the fields.

Information: See http://www.ima.umn.edu/2011-2012/ W9.26-30.11/.

* 26–30 **International Conference on Function Spaces, Weights, and Variable Exponent Analysis (An i-MATH activity)**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

Description: This international conference aims to promote research in the theory of function spaces and related topics (operator theory, variable exponent analysis, etc.), by bringing together world-leading experts and young scholars. This event provides an excellent opportunity to disseminate the latest major achievements and to explore new directions and perspectives, and is expected to have a broad international appeal dealing with topics of fundamental importance.

Information: http://www.crm.cat/cspaces.

26–30 **Mathematical Oncology: New Challenges for Systems Biomedicine**, "Ettore Majorana" Foundation and Centre for Scientific Culture Erice, Sicily, Italy. (Jun/Jul. 2011, p. 858)

Description: Tumors are dynamical diseases characterized by multiple scales. The complexity of clinical-genomic tumor-related data implies that biostatistics and bioinformatics analyses are no more sufficient to cope with such data in order to explain them and to produce predictions. Mechanistic models of biomedical phenomena with complex outputs must be built, to open the road for tailored therapies. This is a huge challenge for contemporary mathematics. Infos to submit contributed talks, registration etc.: http://www. dm.unipi.it/~erice2011/.

Invited Speakers: Z. Agur, R. Barbuti, N. Bellomo, F. Bonino, H. Byrne, V. Capasso, F. Castiglione, O. Demin, A. d'Onofrio, D. Drasdo, H. Enderling, A. Fasano, G. Finocchiaro, A. Friedman, K. Hicks, A. Iudice, B. Kholodenko, U. Ledzewicz, A. Palladini, L. Preziosi, A. Radunskaya, P. T. Ram, B. Ribba, A. Sigal, R. V. Solé, P. Ubezio.

Organizers: Z. Agur, P. Cerrai, A. d'Onofrio, A. Gandolfi.

Information: http://www.dm.unipi.it/~erice2011/.

28–30 **Balance, Boundaries and Mixing in the Climate Problem**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, 5th floor, Montréal, Québec, H3T 1J4 Canada. (Jun/Jul. 2011, p. 858)

Description: Turbulent mixing in the atmosphere and oceans will be the focus. Although crucial to coarse-resolution numerical modelling efforts, much of it really occurs below typical grid scales. Recent progress in geophysical fluid dynamics will be brought to the community that can benefit from it to improve their integrated studies of complex environmental systems.

Information: http://www.crm.umontreal.ca/Mix11/ index_e.php.

October 2011

1–2 **History and Pedagogy of Mathematics (HPM), Americas Section 2011, West Coast Meeting**, Point Loma Nazarene University, San Diego, California. (Aug. 2011, p. 1011)

First Notice and Call for Papers: HPM seeks a variety of talks on the history of mathematics, the teaching of mathematics, and the history of teaching mathematics. Talks directly relevant to mathematics classrooms are especially welcome. Talks will be 30-40 minutes long.

Information: Prospective speakers should send a title and abstract, as well as their own contact information to Kathy Clark at: drk-clark@gmail.com. Further details on this meeting should be available by midsummer. For now, please Save the Date. For updated information check, and to read about past meetings, see http:// www.hpm-americas.org.

3 **Philosophy of Information**, American University, Washington, District of Columbia. (Mar. 2011, p. 496)

Description: The overall objective of this workshop is to study some of the open questions within philosophy of information. Interest in the philosophy and meaning of information goes back half a century but has rapidly increased recently with many new directions of research into the meaning, quantification and measures of information and complexity as well as a vast range of applications across

the scientific spectrum. In this conference we will focus on just one aspect of the philosophy of information: the different techniques to measure information and to identify meaningful information.

Hosts: The workshop is hosted by the Info-Metrics Institute. The co-chairs are Amos Golan (AU), and Pieter Adriaans (Univ. Amsterdam).

Information: `http://www.american.edu/cas/economics/info-metrics/workshop/workshop-2011-fall.cfm`.

3-7 **Geometric structures on complex manifolds**, Laboratory of Algebraic Geometry, Higher School of Economics, Moscow, Russia. (Aug. 2011, p. 1011)

Description: Differential-geometric structures play an important role in the study of complex geometry. After Kodaira, Kaehler structures became central in the study of deformation theory and the classification problems. More recently, the non-Kaehler metrics on complex manifolds started to be important in string theory. The manifolds with special holonomy become central in string theory due to advances in supersymmetry. The notion of calibrations, due to Harvey and Lawson, gives a unifying differential-geometric mechanism encompassing the complex geometry and its many generalizations to quaternionic and octonionic domains. We are planning to bring together specialists on complex geometry, potential theory and calibrations, to explore the recent advances in differential geometry of complex manifolds.

Information: `http://bogomolov-lab.ru/GS/`.

4-6 **Sixth International Workshop Meshfree Methods for Partial Differential Equations**, Universitätsclub Bonn, Bonn, Germany. (Apr. 2011, p. 628)

Description: While contributions in all aspects of meshfree and particle methods are invited, some of the key topics to be featured are: Application of meshfree, particle, generalized/extended finite element methods e.g. to, multiscale problems, problems with multiple discontinuities and singularities, problems in high-dimensions, coupling of meshfree methods, finite element methods, particle methods, and finite difference methods, parallel computation in meshfree methods, mathematical theory of meshfree, generalized finite element, and particle methods, fast and stable domain integration methods, enhanced treatment of boundary conditions, identification and characterization of problems where meshfree methods have clear advantage over classical approaches

Sponsor: Sonderforschungsbereich 611, Universität Bonn.

Information: `http://wissrech.ins.uni-bonn.de/meshfree`.

7-9 **ICMA2011: The Third Conference on Mathematical Modeling and Analysis of Populations in Biological Systems**, Trinity University, San Antonio, Texas. (May 2011, p. 743)

Description: This conference will build upon the success of the previous two conferences that were held on the campuses of the University of Arizona in 2007 and University of Alabama Huntsville in 2009. Furthermore, the proceedings of ICMA I were published in two issues of the *Journal of Biological Dynamics* and one issue in the *Journal of Difference equations*. The proceedings of ICMA II will be published in two issues of the *Journal of Biological Dynamics*. The main focus of this conference will be on ecology and evolution. In addition, there will be a focus on ecological and evolutionary problems in related fields, such as environmental science, epidemiology, etc. We will invite researchers working on model derivation and analysis, data testing, and model simulations in these fields.

Scientific Committee: Chris Cosner, Jim Cushing (chair), Maia Martcheva, Gail Wolkowicz, and Sebastian Schrieber.

Organizing Committee: Saber Elaydi (chair), Jim Cushing, Jia Li, David Ribble, Peter Olofsson, and Cabral Balreira.

Information: For more information contact Dr. Saber Elaydi, Conference Director (email: `selaydi@trinity.edu`) and visit `http://web.trinity.edu/x8339.xml`.

10-14 **AIM Workshop: Weighted singular integral operators and non-homogenous harmonic analysis**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)

Description: This workshop, sponsored by AIM and the NSF, will focus on recent developments on weighted inequalities for singular integral operators and the connection with questions in geometric measure theory and PDEs.

Information: `http://aimath.org/ARCC/workshops/singularintops.html`.

10-14 **International conference "Kolmogorov Readings: General control problems and their applications (GCP - 2011)"**, Tambov State University named after G. R. Derzhavin, Tambov, Russia. (Jun/Jul. 2011, p. 859)

Description: The conference is the 5th one in the series "Kolmogorov readings" gathering international scientists in the city where the outstanding mathematician, A. N. Kolmogorov, was born. Traditionally the conference will mainly focus on general control problems and their applications in natural and human sciences, optimization theory, differential equations and inclusions. There are planned plenary (40 min.) and sectional (20 min.) talks, as well as a school on optimal control aimed to Ph.D. students and young researches.

Information: `http://www.tambovopu2011.narod.ru/`.

10-14 **International Conference on Scientific Computing 2011 (SC2011) dedicated to Claude Brezinski and Sebastiano Seatzu on the occasion of their 70th birthday**, S. Margherita di Pula, Sardinia, Italy. (Mar. 2011, p. 496)

Description: We are organizing an international conference in October 2011 to celebrate the 70th birthday of Claude Brezinski and Sebastiano Seatzu, and, at the same time, the 20th anniversary of the Springer journal *Numerical Algorithms*. The themes of the conference will cover all aspects of numerical analysis and applied mathematics. Special sessions will be devoted to selected topics. The conference will be held at Hotel Flamingo (`http://www.hotelflamingo.it/`), a tourist resort located in S. Margherita di Pula, Sardinia, Italy. An agreement has been reached with the Hotel to obtain special reduced prices for full board accommodation. We are asking people interested in attending the Conference and receiving more information, to fill out the preregistration form available at the web page `http://bugs.unica.it/SC2011/preregistration/`. Those requesting more information can contact us at the email address: `sc2011@bugs.unica.it`. The web site of the event is `http://bugs.unica.it/SC2011/`.

Information: `http://bugs.unica.it/SC2011/`.

11-14 **Mal'tsev Meeting**, Sobolev Institute of Mathematics, Novosibirsk, Russia. (Apr. 2011, p. 628)

Description: Mal'tsev Meeting is an annual conference on algebra, mathematical logic, and applications organized by Sobolev Institute of Mathematics and Novosibirsk State University. In 2011, the meeting is dedicated to the 60th birthday of Sergei Goncharov. The programme of the conference will consist of invited talks and contributions in sections.

Main topics: Include computability theory, theoretical computer science, mathematical logic, group theory, ring theory, universal algebra, and related areas of mathematics.

Information: `http://www.math.nsc.ru/conference/malmeet/11/index.html`.

* 12-13 **International Conference on Mathematics and Science (ICOMSc)**, Majapahit Hotel, Surabaya, Indonesia.

Description: As a part of the activities to celebrate the 51st anniversary of the Institute of Technology Sepuluh Nopember (ITS) Surabaya, the Faculty of Mathematics and Natural Sciences will organize an international conference on Mathematics and Sciences.

Organizer: The conference is organized by Faculty of Mathematics and Natural Science-Institute Technology Sepuluh Nopember, Surabaya, Indonesia.

Deadline: For abstracts/proposals: August 14, 2011.
Information: `http://www.icomsc.its.ac.id`.

* 13–16 **Incompressible Fluids, Turbulence and Mixing. In honor of Peter Constantin's 60th birthday**, Carnegie Mellon University, Pittsburgh, Pennsylvania.
Invited speakers: Claude Bardos, Henri Berestycki, Andrea Bertozzi, Alexandre Chorin, Camillo De Lellis, Charlie Doering, Ciprian Foias, Susan Friedlander, John Gibbon, Darryl Holm, William Layton, Andrew Majda, Nader Masmoudi, Koji Ohkitani, Jean-Claude Saut, Panagiotis Souganidis, Vladimir Šverák, Eitan Tadmor, Roger Temam, Noel Walkington. Graduate students and young researchers are encouraged to contribute a poster or short talk. Funds are available to support graduate students and young researchers.
Deadline: The registration deadline is August 1, 2011.
Information: `http://www.math.cmu.edu/cna/fluids2011/index.html`.

14–16 **AMS Central Section Meeting**, University of Nebraska-Lincoln, Lincoln, Nebraska. (Sept. 2010, p. 1036)
Information: `http://www.ams.org/meetings/sectional/sectional.html`.

* 17–21 **Embedding Problems in Banach Spaces and Group Theory**, Mathematical Sciences Research Institute, Berkeley, California.
Description: This workshop is devoted to various kinds of embeddings of metric spaces into Banach spaces, including biLipschitz embeddings, uniform embeddings, and coarse embeddings, as well as linear embeddings of finite dimensional spaces into low dimensional ℓ_p^n spaces. There will be an emphasis on the relevance to geometric group theory, and an exploration into the use of metric differentiation theory to effect embeddings.
Information: `http://www.msri.org/web/msri/scientific/workshops/programmatic-workshops/show/-/event/Wm575`.

17–21 **Workshop: Applications of Kinetic Theory and Computation**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 859)
Description: There are several fundamental applications involving kinetic theory and computations. They range from semiconductor modeling involving kinetic and quantum charged transport, radiative transfer in cosmology, conservative and dissipative phenomena in rarefied gas dynamics in mixtures, and grain and polymer flows.
Information: `http://icerm.brown.edu/sp-f11/workshop-2.php`.

19–21 **Celebration of Mathematical Sciences in Commemoration of the Centennial of the Birth of Shiing-Shen Chern**, Institute of Mathematics, Academia Sinica, 6F, Astronomy-Mathematics Building, No. 1, Sec. 4, Roosevelt Road, Taipei, Taiwan 10617. (Aug. 2011, p. 1011)
Description: Professor Shiin-Shen Chern was one of the founding fathers of the Institute of Mathematics of the Academia Sinica, and had remained one of its leading supporters his entire life. On the occasion of his 100th birthday, the Institute of Mathematics, Academia Sinica, Taipei, will hold the International conference "Celebration of Mathematical Sciences in Commemoration of the Centennial of the Birth of Shiing-Shen Chern".
Plenary speakers: Luis Caffarelli (Texas), Jih-Hsin Cheng (Academia Sinica), Kenji Fukaya (Kyoto), Gerhard Huisken (Max Planck), Maxim Kontsevich (IHES), Ko-Wei Lih (Academia Sinica), Richard Schoen (Stanford), Yum-Tong Siu (Harvard), Chuu-Liang Terng (UC Irvine), Cedric Villani (Institute H. Poincare).
Scientific committee: K. Fukaya (Kyoto), T.-P. Liu (Academia Sinica), R. Schoen (Stanford), Y.-T. Siu (Harvard). Local organizing committee: J.-H. Cheng (Academia Sinica), J.-N. Wang (NTU), C. Chen (NCTU), M.-K. Chuah (NTHU), R.-L. Sheu (NCKU).
Local organizing committee: J.-H. Cheng (Academia Sinica), J.-N. Wang (NTU), C. Chen (NCTU), M.-K. Chuah (NTHU), R.-L. Sheu (NCKU).
Information: `http://www.math.sinica.edu.tw`.

* 21–22 **Eleventh Annual Prairie Analysis Seminar**, Department of Mathematics, Kansas State University, Manhattan, Kansas.
Description: The conference features Andrea Bertozzi, University of California, Los Angeles, who will give two one-hour talks, and Thomas Laurent, University of California at Riverside, and Dejan Slepcev, Carnegie Mellon University, who will each give a one-hour talk.
Topics: Include aggregation equations involving ideas from fluid dynamics and optimal transport. There is time scheduled for contributed talks; all participants, especially mathematicians early in their careers, are encouraged to contribute a 20-minute talk. The conference is supported by the NSF and funding is available with priority given to students, postdocs and those early in their careers.
Organizers: Marianne Korten, Charles Moore, Kansas State University; and Estela Gavosto, Rodolfo Torres, University of Kansas.
Information: `http://www.math.ksu.edu/pas/2011/`.

21–22 **National Conference on "Role of Mathematical and Physical Sciences in Engineering and Technology"**, Government Degree College Karanprayag (Chamoli), Uttarakhand, India.
Description: The conference provides a unique opportunity for in-depth technical discussions and exchange of ideas in mathematical and physical sciences, as well as their role in natural and social sciences, engineering and technology, industry and finance. It offers to researchers, industrialists, engineers and students from different parts of the country as well as from the remote part of the Uttarakhand state to present their latest research, to interact with the experts in the field, and to foster interdisciplinary collaborations required to meet the challenges of modern science, technology, and society.
Information: `http://sites.google.com/site/drgauraviitr/homepage/activities`.

22–23 **AMS Western Section Meeting**, University of Utah, Salt Lake City, Utah. (Sept. 2010, p. 1036)
Information: `http://www.ams.org/meetings/sectional/sectional.html`.

22–24 **The 5th International Conference on Research and Education in Mathematics (ICREM5)**, Institut Teknologi Bandung, Bandung, Indonesia. (Aug. 2011, p. 1011)
Description: The International Conference on Research and Education in Mathematics (ICREM) is a biennial conference, started in 2001. It covers all aspects of mathematical sciences as well as mathematical education. It is jointly organized by Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung, Institute for Mathematical Research, Universiti Putra Malaysia INSPEM), and Institute of Mathematics, Vietnam Academy of Science & Technology (IMVAST).
Keynote Speaker: Cedric Villani (Institute Henri Poincare, France), Fields Medalist 2010, supported by International Mathematics Union (IMU); Abdus Salam International Centre for Theoretical Physics (ICTP); United Nations Educational, Scientific and Cultural organization (UNESCO); Indonesian Combinatorial Society (InaCombS); and Indonesian Mathematical Society (IndoMS) (IndoMS).
Information: `http://www.math.itb.ac.id/~icrem5/`.

24–26 **Algebra Geometry Mathematical Physics**, University of Haute Alsace, Mulhouse, France. (May 2011, p. 744)
Main topics: Include, but are not limited to: Deformation theory and quantization, Hom-algebras and n-ary algebraic structures, Hopf algebra, quantum algebra, Integrable systems, Jet theory and Weil bundles, Lie theory and applications, Noncommutative and nonassociative algebra, Representation theory, Number theoretical methods in string theory, Quantum geometry, Spectral and computational methods for Maxwell equations, Ternary algebras and applications.
Information: `http://www.agmp.eu/mul11/`.

24–27 **SIAM Conference on Geometric and Physical Modeling (GD/SPM11)**, Wyndham Orlando Resort, Orlando, Florida. (Jun/Jul. 2011, p. 859)

Description: The 2011 SIAM Conference on Geometric and Physical Modeling seeks high quality, original research contributions that strive to advance all aspects of geometric and physical modeling, and their application in design, analysis and manufacturing, as well as in biomedical, geophysical, digital entertainment, and other areas. A shared objective of both the SIAM GD and ACM SPM communities is a desire to highlight work of the highest quality on the problems of greatest relevance to industry and science. In ACM SPM tradition, the conference will include a track for submission of peer-reviewed technical papers for those wishing rigorous peer review and published proceedings. In addition, in the tradition of previous SIAM GD events, abstracts for minisymposia and contributed talks/posters are solicited.
Information: `http://www.siam.org/meetings/gdspm11/`.

24–28 **AIM Workshop: The Kardar-Parisi-Zhang equation and universality class**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the study of the the Kardar-Parisi-Zhang equation and universality class.
Information: `http://aimath.org/ARCC/workshops/kpzequation.html`.

24–28 **Galois Conference: Bicentennial of Evariste Galois's birth Colloque Galois—Bicentenaire de la naissance d'Évariste Galois**, Institut Henri Poincaré, Paris, France. (Jun/Jul. 2011, p. 859)
Description: Institut Henri Poincaré and Société Mathématique de France will organize a conference to illustrate the heritage of E. Galois's work, both from a mathematical and an historical point of view.
Information: `http://www.galois.ihp.fr/`.

24–28 **IMA Workshop: Large Graphs: Modeling, Algorithms and Applications**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Oct. 2010, p. 1166)
Description: The focus of the workshop will be on the mathematical, algorithmic, and statistical questions that arise in graph-based machine learning and data analysis, with an emphasis on graphs that arise in the above settings, as well as the corresponding algorithms and motivating applications. Thus, this workshop will be an opportunity for researchers from diverse fields to get together and share problems and techniques for handling these graph structures. The connections "mathematical, computational, and practical" that arise between these seemingly diverse problems and approaches will be emphasized.
Information: See `http://www.ima.umn.edu/2011-2012/W10.24-28.11/`.

24–28 **Heritage of E. Galois's work**, Institut Henri Poincaré, Paris, France. (Jun/Jul. 2011, p. 859)
Description: Institut Henri Poincaré and Société Mathématique de France will organize a conference to illustrate the heritage of E. Galois's work, both from a mathematical and an historical point of view.
Information: `http://www.galois.ihp.fr/`.

24–28 **Optimization, Theory, Algorithms and Applications in Economics**, Centre de Recerca Matematica, Universitat Autonoma de Barcelona, Barcelona, Spain. (Jun/Jul. 2011, p. 859)
Description: This international conference is a tribute to Juan-Enrique Martinez-Legaz on the occasion of his 60th birthday. It has the aim of a top-level scientific meeting to promote a broad exchange of information and new developments in the areas of Functional and Variational Analysis, Control, Optimization and Applications in Economics. The event will include two half-day mini workshops (Nuclei) in Economics and a mini-workshop in applications of Optimization in Engineering.
Information: `http://mat.uab.cat/~opt2011`.

26–29 **Integers Conference 2011**, University of West Georgia, Carrollton, Georgia. (Jun/Jul. 2011, p. 859)

Description: The editors of Integers are pleased to announce the Integers Conference 2011. The Integers conferences are international conferences in combinatorial number theory, held for the purpose of bringing together mathematicians, students, and others interested in combinatorics and number theory.
Plenary Speakers: Ken Ono, Emory University; Carla Savage, North Carolina State University; Laszlo Szekely, University of South Carolina; Frank Thorne, University of South Carolina; Julia Wolf, Ecole Polytechnique. Organizers: Bruce Landman, Melvyn Nathanson, Jaroslav Nesetril, Richard Nowakowski, Carl Pomerance.
Information: `http://www.westga.edu/~math/IntegersConference2011/`.

30–November 5 **Chern Centennial Conference**, Mathematical Sciences Research Institute, Berkeley, California.
Description: The Mathematical Sciences Research Institute (MSRI) in conjunction with the Chern Institute of Mathematics (CIM) in Tianjin, China, celebrates the centennial of the birth of Shiing-Shen Chern, one of the greatest geometers of the 20th century and MSRI's co-founder. In commemoration of Chern's work, MSRI and CIM will implement an international mathematics conference. During the first week, October 24 to 28, 2011, the conference will take place at CIM in Tianjin, China and during the second week, October 30 to November 5, 2011, the conference will be at the MSRI in Berkeley, USA.
Information: Further information about the first week at CIM can be found here: `http://www.nim.nankai.edu.cn/activites/conferences/Chern-Centennial-20111024/index.htm`. For general information visit: `http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm555`.

31–November 4 **AIM Workshop: Geometry of large networks**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)
Description: This workshop, sponsored by AIM and the NSF, is devoted to geometric models of large networks. It intends to bring together mathematicians, computer scientists, and engineers.
Information: `http://aimath.org/ARCC/workshops/largenetworks.html`.

* 31–November 4 **The hyperbolic and Riemannian geometry of surfaces and other manifolds**, Centro Stefano Franscini, Ascona, Switzerland.
Description: The hyperbolic and Riemannian geometry of surfaces and other manifolds, a conference in honor of the mathematics of Peter Buser. The aim of this conference is to bring together people working on the geometry of surfaces and Teichmüller spaces, the spectrum of the Laplacian, and global Riemannian geometry.
Information: `http://homeweb.unifr.ch/parlierh/pub/Buser/welcome.html`.

November 2011

1–3 **Central and Eastern European Software Engineering Conference in Russia (CEE-SECR 2011)**, Moscow, Russian Federation. (Jun/Jul. 2011, p. 859)
Description: CEE-SECR is the premier software engineering conference in Russia. Up to 1000 participants from over 20 countries are expected to attend the event in 2011, presenting and discussing innovations, trends, results, experiences and concerns in the field of software engineering. The conference will be composed of research presentations, experience reports, poster presentations, panel discussions, workshops, invited presentations, and keynote lectures. At previous conferences, keynote/invited/panel speakers have included: Bjarne Stroustrup, Thomas Erl, Richard Soley, Igor Agamirzian, Grady Booch, Lars Bak, Yuri Gurevich, Alexander L. Wolf, Erich Gamma, Victor Ivannikov, Stephen Mellor, Rick Kazman, Larry L. Constantine, Ivar Jacobson, Mark Paulk, Michael Cusumano, and other distinguished figures.

Information: `http://www.cee-secr.org`.

1–3 International Seminar on the Application of Science and Mathematics 2011, Putra World Trade Centre, Kuala Lumpur, Malaysia. (Jun/Jul. 2011, p. 860)

Description: Introduction ISASM 2011 aims to provide an international forum for researchers to present and discuss recent advances and new techniques in science and mathematics and its applications. Seminar Objectives (i) To provide a platform for the exchange of new ideas and interaction between local and international participants, updating the latest research in application of science and mathematics. (ii) To bring together researcher and scientist in promoting and enhancing research collaboration among local and international participants. (iii) To encourage and stimulate publications in the areas of application of science and mathematics.

Official Languages: English and Malay.

Information: `http://uhsb.uthm.edu.my/isasm2011/`.

1–5 International conference of Settat on Operator algebras and applications, Faculty of Sciences and Techniques, University Hassan I. Settat, Morocco. (Mar. 2011, p. 496)

Description: As a continuation of the first and the second international conferences on operator algebras and applications in Morocco, the 3rd conference ICSOAA2011, will be held in Settat November 1-5, 2011, with a similar structure. It would be a big pleasure for us to meet you there. ICSOAA 2011 in Morocco is intended to be a comprehensive, inclusive conference covering all aspects of theoretical and applied operator algebras.

Information: `http://www.math.ist.utl.pt/~elharti/3rd/settat2011.htm`.

* 1–5 VI International Conference on Non Associative Algebra and its Applications, Universidad de Zaragoza, Spain.

Description: This conference aims to bring together people working in nonassociative algebras and their applications. It will also serve to honor Santos Gonzalez on his 60th birthday.

Scientific Committee: Georgia Benkart (University of Wisconsin), Kevin McCrimmon (University of Virginia), Ivan Shestakov (Universidade de Sao Paulo) and Efim Zelmanov (University of California, San Diego). There will be plenary talks, four special sessions on "Lie algebras and superalgebras", "Jordan systems", "Other nonassociative systems", and "Applications", and poster sessions.

Information: `http://iuma.unizar.es/~elduque/vinaaa`.

5–6 Second International Conference on Biologically Inspired Cognitive Architectures (BICA 2011), Holiday Inn Arlington, Arlington, VA, next to Washington DC. (Jun/Jul. 2011, p. 860)

Description: The challenge of creating a real-life computational equivalent of the human mind calls for our joint efforts to better understand at a computational level how natural intelligent systems develop their cognitive and learning functions.The focus of BICA 2011 includes: BICA models of robust learning mechanisms; models of perception, cognition and action; emotional and social intelligence in artifacts; vital constraints informed by neuroscience, human-like episodic and semantic memory; metacognition, human-like self-regulated learning, bootstrapped and meta-learning; language acquisition and symbol grounding; the "critical mass" for cognitive growth in a learning environment, scalability of learning; the roadmap to solving the challenge.

Information: `http://bicasociety.org/2011/`.

5–8 ICMIS2011: 2nd International Conference on Mathematics & Information Science, Sohag University, Sohag, Egypt. (Jun/Jul. 2011, p. 860)

Description: The conference will feature advances in mathematical science and technology presented by leading African and international researchers and will provide the opportunity to showcase research in mathematics, theoretical physics and information science and technology to engender dialogue and collaboration between Egyptian and international researchers. The conference is a part of a series of conferences dedicated to bringing top scientists and technologists to Egypt thereby helping to raise Egyptian science and technology to the highest international standard, raise awareness of governments and industry in Egypt of the importance and excitement of new research and development in technologies, and engender collaborations and research exchanges. The first conference of this Conference Series was "International Conference on Mathematics and Information Security, Sohag, Egypt, November 2009".

Information: `http://www.naturalspublishing.com/sohag2011/`.

* 7–10 International Workshop on Theoretical Aspects of the Discrete Time Quantum Walk, Instituto de Fi'sica Corpuscular, Valencia, Spain.

Aim: What are probability and stochastic processes in Quantum Mechanics? To study the foundations of stochastic processes in Quantum Mechanics, the discrete time quantum walk (DTQW), which is the quantum analogue of the classical random walk, may be useful. This has recently been a hot research field, especially in quantum information science, and has been experimentally realized. This workshop will bring the theoretical researchers in the DTQW. While this workshop is focused on the theoretical side, we also welcome experimentalists. The organizers strongly encourage young researchers to actively join us to this workshop.

Workshop Scopes: 1. Proposals on Physical Realizations of the DTQW 2. Asymptotic Behavior of DTQW 3. Decoherence in the DTQW 4. Applications to Quantum Information Science.

Invited Speakers: Frederick W. Strauch (Williams College, USA) Takuya Kitagawa (Harvard University, USA).

Important Date: Deadline of the abstract submission for the oral presentation: September 1, 2011.

Information: `http://ific.uv.es/~perez/DTQW_Valencia.html`.

* 7–11 Advanced Course on Approximation Theory and Fourier Analysis, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

Description: These courses consist of five series of lectures: 1. Variable Lebesgue Spaces: Foundations and Harmonic Analysis by David Cruz-Uribe, 2. Weighted polynomial approximation on the sphere and related domains by Feng Dai, 3. Pseudo-differential operators on compact Lie groups by Michael Ruzhansky, 4. Greedy Approximation by Vladimir Temlyakov, 5. Approximation Theory and Harmonic Analysis on the Unit Sphere by Yuan Xu.

Information: `http://www.crm.cat/acfourier`.

7–11 AIM Workshop: The Klein project, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)

Description: This workshop, sponsored by AIM and the NSF, will be devoted to the development of the Klein Project, specifically to the preparation of "vignettes" that characterise important ideas within the field of the mathematical sciences using specific examples.

Information: `http://aimath.org/ARCC/workshops/kleinproject.html`.

7–11 Workshop: Boltzmann Models in Kinetic Theory, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 860)

Description: The focus of the program is to bring computational and theoretical people together to investigate problems of fundamental importance.

Information: `http://icerm.brown.edu/sp-f11/workshop-3.php`.

7–11 Waves in Science and Engineering WISE 2011, Mexico City, Mexico. (Jun/Jul. 2011, p. 860)

Description: It is intended to bring together experts from different fields of the general area of classical wave theory and applications including acoustic, electromagnetic, and elastic wave propagation. The mathematical and numerical modeling procedures in these fields contribute to a considerable number of applied physical and engineering problems, over a large range of length scales. Among

these are problems in sonar, radar, medical imaging, detection, materials, and wave interactions with surfaces and obstacles. The conference will cover many of the current mathematical and numerical techniques that are applied across disciplines. Mathematicians, physicists, and engineers of varying backgrounds and occupations will present recent developments in wave phenomena in science and engineering.

Information: `http://www.wise.ipn.mx`.

12 **Information Theory and Shrinkage Estimation**, American University, Washington, District of Columbia. (Mar. 2011, p. 496)

Description: Interest in shrinkage estimators goes back half a century but has rapidly increased recently with many new directions of research that cover a vast range of applications in different disciplines. Ongoing research on Information-Theoretic estimation and inference methods is similarly inter-disciplinary, involving information theory, engineering, mathematical statistics, econometrics and the natural sciences. This one day conference will address the various themes of shrinkage estimation, the inter-connections between shrinkage estimation methodology and info-metrics, and explore recent advances in shrinkage methods and applications.

Information: `http://www.american.edu/cas/economics/info-metrics/workshop/workshop-2011-november.cfm`.

14-18 **IMA Workshop: Large Data Sets in Medical Informatics**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Nov. 2010, p. 1349)

Description: The goal of this workshop is to bring together mathematicians, statisticians, engineers, and scientists working on particular aspects of medical informatics or related areas. A careful look at the literature in any of the subfields of medical informatics reveals specialized approaches and philosophies combined with a lack of knowledge of other potentially useful methodologies that have been developed in other subfields of medical informatics. Furthermore, results and methodologies discovered in pertinent subfields of mathematics and statistics remain unknown in medical informatics. Conversely, researchers in real analysis, differential equations, algebraic geometry, and statistics are unaware of the characteristics of the challenges in medical informatics that limit the applicability of generic approaches.

Information: See `http://www.ima.umn.edu/2011-2012/W11.14-18.11/`.

17-18 **Jornadas de Criptografía (Spanish Cryptography Days)**, Murcia, Spain. (May 2011, p. 744)

Description: As part of the activities of the Centenary of the Real Sociedad Española de Matemáticas the Algebra Group of Murcia organize the Jornadas de Criptografía SCD2011 with the aim of bringing together researchers in cryptography, including mathematicians and computer scientists, as well as industrial and government organizations interested in new developments and applications of cryptography.

Information: `http://www.um.es/docencia/jsimon/CongresoCripto/CryptographyMeeting.html`.

19-21 **International Conference on Analysis and its Applications**, Department of Mathematics, Aligarh Muslim University, Aligarh, India. (Dec. 2010, p. 1498)

Description: The main aim of the conference is to promote, encourage, cooperate, and bring together theoreticians and multi–disciplinary and inter–disciplinary researchers in the fields of nonlinear analysis; operator theory; fixed point theory; set-valued analysis; variational analysis including variational inequalities; convex analysis; smooth and nonsmooth analysis; wavelet analysis; Fourier analysis; modern methods in summability and approximation theory; sequence spaces and matrix transformations.

Information: `http://www.amu.ac.in/conference/icaa2011`.

28-December 2 **School of Applied Mathematics and Innovation 2010: Celestial Mechanics and Computing Orbits**, Campus Rodrigo Noguera Laborde of Universidad Sergio Arboleda, Carrera 29D 30 - 207 Troncal del Caribe Santa Marta, Colombia. (Jun/Jul. 2011, p. 860)

Description: This doctoral school will be devoted to study of techniques in Celestial Mechanics and Computer Orbits.

Lecturers: Alain Chenciner, Observatoire de Paris, Paris, France. Rafael Ortega, Universidad de Granada, Granada, Spain. Juan Ramón Pacha, Universitat Politécnica de Catalunya, Barcelona, Spain.

Organizing Committee: Luz Myriam Echeverry, Universidad Sergio Arboleda, Universidad de los Andes, Colombia. Andres Mauricio Rivera, Pontificia Universidad Javeriana, Cali, Colombia.

Scientific Committee: Primitivo Acosta-Humánez, IMA-Universidad Sergio Arboleda, Colombia. Amadeu Delshams, Universitat Politécnica de Catalunya, España. Juan Morales-Ruiz, Universidad Politécnica de Madrid, España.

Information: `http://ima.usergioarboleda.edu.co/SAMI/SAMI2011.htm`.

* 28–December 2 **Workshop on Computational Security**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

Description: In the current information society, security and integrity and crucial topics. Since the appearance of Information Theory with Claude E. Shannon at the end of the 1940s, secure transmission and correct reception of information were the most studied problems by the scientific community. The mathematical theories necessary to develop cryptography, coding theory and computer security provide tools used with two main purposes: protect the privacy of the information and guarantee its integrity when possible alterations may occur. The need of information security in public and private institutions has changed in the last years; it has grown from something exclusive of intelligence services to become something common that affects the whole society.

Information: `http://www.crm.cat/wksecurity`.

December 2011

* 1-14 **US-Africa Advanced Study Institute on Analysis, Dynamical Systems, and Mathematical Biology and Research Workshop on Mathematical Modeling of Biological Systems**, Livingstone, Zambia.

Description: The first five days of the ten-day Institute are devoted to reviewing background material on analysis, linear algebra, dynamical systems, mathematical biology, and requisite software. The last five days of the Institute will consist of research lectures and intense group research activities on new and emerging topics in mathematical modeling of biological systems. The Institute will be followed by a Workshop on mathematical modeling of biological systems consisting of presentations of research programs of experienced researchers with extended follow-up discussion periods. Participants will also have an opportunity to attend a one-day Career Development Workshop. Space is limited and registration is open only to graduate students and early career faculty (rank less than associate professor.)

Deadline: For receipt of applications is Thursday, July 28, 2011.

Information: `http://www.dms.auburn.edu/~jendaov/masamu.html`.

1-April 1 **Call for papers: A special issue of *Symmetry* (ISSN 2073-8994) "Symmetry in Probability and Inference"**, *Symmetry Journal*, MDPI Publishing, Basel, Switzerland. (Mar. 2011, p. 497)

Guest Editor: M. Viana.

Deadline: April 1st, 2011.

Description: Papers should address any aspects of symmetry arguments in probability and statistical inference, such as, but not limited to: Constructive rules of probability and inference derived from symmetry arguments; relative probabilities; symmetric probability measures, symmetry in probability distributions, symmetry-related arguments in entropy (probabilistic) laws; epistemic probabilities and symmetry principles, symmetry arguments in the cognitive

foundations of probability, statistical inference under symmetry, quantum statistical inference, asymmetric inference (in Markov processes), exchangeability and symmetry. Group-theoretic approaches to probability and inference, including those discussing aspects of symmetry invariance derived from symmetry arguments will be considered. Papers discussing covariance structures derived from symmetry arguments, for example, will also be considered. Annotated reviews may also be considered.

Information: `http://www.mdpi.com/journal/symmetry/special_issues/probability/`.

2–4 **Introduction to Neutrosophic Physics: Unmatter & Unparticle**, The University of New Mexico, Mathematics & Sciences Department, 200 College Rd., Gallup, New Mexico. (Mar. 2011, p. 497)
Description: This idea of unparticle was first considered by F. Smarandache in 2004, 2005 and 2006, when he uploaded a paper on CERN web site and he published three papers about what he called 'unmatter', which is a new form of matter formed by matter and antimatter that bind together. In 2006 E. Goldfain introduced the concept of "fractional number of field quanta" and he conjectured that these exotic phases of matter may emerge in the near or deep ultraviolet sector of quantum field theory. H. Georgi proposed the theory of unparticle physics in 2007 that conjectures matter that cannot be explained in terms of particles using the Standard Model of particle physics, because its components are scale invariant. Fragments from Wikipedia Papers on current trends in High Energy Physics about exotic matter, about connections between unmatter and unparticle, about Neutrosophic Logic as new research in Theoretical Physics, should be sent to the organizer preferably by email.
Information: `http://www.gallup.unm.edu/~smarandache/unmatter.htm`.

4–9 **LISA'11: 25th Large Installation System Administration Conference**, Sheraton Boston Hotel at 39 Dalton St., Boston, Massachusetts. (Feb. 2011, p. 336)
Description: System administrators of all specialties and levels of expertise meet at LISA to exchange ideas, sharpen old skills, learn new techniques, debate current issues, and meet colleagues, vendors, and friends. Talks, presentations, posters, WiPs, and BoFs address a wide range of administration specialties, including system, network, storage, and security administration on a variety of platforms including Linux, BSD, Solaris, and OS X.
Information: `http://www.usenix.org/events/lisa11`.

5–7 **International symposium on recurrence plots**, Hong Kong Polytechnic University, Hong Kong, China. (Jun/Jul. 2011, p. 860)
Description: The objective of the symposium is to encourage the exchange of knowledge among scientists working in the disciplines of time and spatial series analyses. Recurrence plots and recurrence quantifications are general methods for visualising and analysing both linear and nonlinear time series data. We continue to witness many new technical developments related to recurrence plots. Some of these include: a framework to treat recurrence plots as a network from which one can obtain network-related statistics; inferring directional couplings; obtaining confidence intervals. In addition, applications of recurrence plots are increasing in many areas ranging from, e.g., physiology over climate to financial systems. This symposium will provide a unique forum to help combine the recent theoretical developments in recurrence science with applications from various fields. We welcome both theoretical and applied contributions that use recurrence related methodologies.
Information: `http://symposium.recurrence-plot.tk`.

5–9 **AIM Workshop: Stability, hyperbolicity, and zero localization of functions**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the emerging theory of stability and hyperbolicity of

functions, in particular the cases of polynomials and analytic functions of one or several variables.
Information: `http://aimath.org/ARCC/workshops/hyperbolicpoly.html`.

* 9–11 **International Conference on Recent Advances in Mathematical Sciences & Applications**, Calcutta Mathematical Society AE-374, Sector-I, Salt Lake city, Kolkata-700064, West Bengal, India.
Description: The main objective of ICRAMSA-2011 is to promote mathematical research and to focus the recent advances in Mathematics and Mathematical Sciences along with their applications. The conference will provide ideal platform for the young researchers throughout the globe to interact with senior scientists, to exchange their views and ideas, also to make possible scientific collaboration with the recent developments in different areas of Mathematics and their applications. The participants will certainly be benefited from this conference as it provides a great opportunity to foster the friendship among them. The programme consists of plenary invited lectures by eminent mathematicians and scientists, contributed papers in various technical sessions. Speaker list will be announced soon.
Information: `http://calmathsoc.org/icramsa.php`.

12–16 **AIM Workshop: Singular learning theory, connecting algebraic geometry and model selection in statistics**, American Institute of Mathematics, Palo Alto, California. (Jun/Jul. 2011, p. 861)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to singular learning theory, the application of algebraic geometry to problems in statistical model selection and machine learning.
Information: `http://www.aimath.org/ARCC/workshops/modelselection.html`.

12–16 **ICREA Conference on Approximation Theory and Fourier Analysis**, Centre de Recerca Matemàtica (CRM), Bellaterra, Barcelona, Spain. (Jun/Jul. 2011, p. 861)
Description: The key idea of the conference is the interdisciplinary connection between Fourier Analysis and Approximation Theory. The main goal of this conference is to reveal new (and clarify known) relations between problems and methods of Fourier Analysis and Approximation Theory and to promote the integration of these areas.
Information: `http://www.crm.cat/icreaapproximation`.

14–16 **5th Indian International Conference on Artificial Intelligence**, Tumkur (near Bangalore), India. (Mar. 2011, p. 497)
Description: 5th Indian International Conference on Artificial Intelligence (IICAI-11) will be held during December 14-16, 2011, in Tumkur (near Bangalore), India. IICAI is a series of high quality technical events in Artificial Intelligence (AI) and is also one of the major AI events in the world.
Information: `http://www.iiconference.org/`.

15–17 **Applied Mathematics & Stochastic Processes**, Sacred Heart College, Tamilnadu, India. (Jun/Jul. 2011, p. 861)
Description: International conference on stochastic processes was proposed by the department of mathematics.
Information: `http://www.shctpt.edu`.

16–18 **The International Congress on Science and Technology**, Allahabad, U.P., INDIA (Oct. 2009, p. 1148)
Description: The ICST-2011 is organized by the CWS, a non-profit society for the scientists and the technocrats and will take place in Allahabad, U.P., INDIA, from Dec. 16–18, 2011. The conference has the focus on the current trends on frontier topics of the science and technology (Applied Engineering) subjects. The ICST conferences serve as good platforms for our members and the entire science and technological community to meet with each other and to exchange ideas.
Deadline: Submission of abstracts with full-length paper to `complexgeometry18@yahoo.com` with a cc: to `ss123a@reddiffmail.com` by August 25, 2011.

Registration: Acknowledgement of accepted papers by email: September 5, 2011. Registration of accepted papers: September 25, 2011. All submitted papers will be under peer review and accepted papers will be published in the conference proceeding. Shekhar (N.S.) Int. J. of Sci. and Tech., `http://sites.google.com/site/shekharn-sintjofsciandtech/`.
Contact: `http://sites.google.com/site/intcongressonsciandtech/` complexgeometry18@yahoo.com. Sushil Shukla (ss123a@rediffmail.com).

17–18 **1st International Conference on Mathematical Sciences and Applications**, India Habitat Centre, Lodhi Road, New Delhi, India. (Jun/Jul. 2011, p. 861)
Call for Papers: The International Conference on Mathematical Science and Applications (ICMSA-2011) is a premier forum for the presentation of new advances and research results in all areas of Mathematical Sciences and Applications. ICMSA-2011 will bring together leading researchers, engineers and scientists in the domain of interest from around the world. Leading Mathematicians around the world shall deliver Key Note Addresses and chair sessions.
Information: `http://ijmsa.yolasite.com/conference-announcement.php`.

17–18 **The International Symposium on Biomathematics and Ecology: Education and Research (BEER-2011)**, University of Portland, Portland, Oregon. (Apr. 2011, p. 628)
Description: The main objective of this meeting is to provide a forum for researchers, educators, students and industries to exchange ideas, to communicate and discuss research findings in the fields of mathematics, biology, ecology and statistics.
Topics: Biomathematics, Mathematics, Biology, Ecology, Biostatistics.
Organizers: Olcay Akman, Hannah Callender, Timothy Comar, Steven A. Juliano.
Information: `http://www.biomath.ilstu.edu/beer`.

18–20 **The 5th International Conference of IMBIC on "Mathematical Sciences for Advancement of Science and Technology" (MSAST 2011)**, Institute for Mathematics, Bioinformatics, Information Technology and Computer Science (IMBIC), Salt Lake, Kolkata, India. (Jun/Jul. 2011, p. 861)
Description: All the authors are requested to submit the full original papers related to the Theme of the Conference: "Mathematical Sciences for Advancement of Science and Technology" to the Secretary of IMBIC: Dr Avishek Adhikari; email: `avishek.adh@gmail.com`, by September 1, 2011. All the papers are to be screened for presentation in the Conference.
Information: `http://imbic.org/forthcoming.html`.

January 2012

4–7 **Joint Mathematics Meetings**, Boston, Massachusetts. (May 2011, p. 744)
Information: `http://www.ams.org/meetings/national/jmm/2138_intro.html`.

9–13 **AIM Workshop: Mapping theory in metric spaces**, American Institute of Mathematics, Palo Alto, California. (Jun/Jul. 2011, p. 861)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to mappings between metric spaces and the recent advances on basic questions concerning uniqueness, extendability, embeddability, uniformization and extremality of mappings in a variety of regularity classes.
Information: `http://aimath.org/ARCC/workshops/mappingmetric.html`.

9–July 6 **Semantics and Syntax: A Legacy of Alan Turing**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Apr. 2011, p. 629)
Description: In several mathematical areas of Theoretical Computer Science, we perceive a distinction between research focusing on symbolic manipulation of language and structures (independent of meaning) and research dealing with interpreted computational meaning of structures. In mathematical logic, the distinction is known as syntax (symbolic manipulation) versus semantics (interpreted structures). This distinction recurs in many research areas, often under different (and sometimes incompatible) names. For research in these fields, both views are important and fundamental for gaining full understanding of the formal issues involved. This programme will bring together researchers from both sides of the syntax-semantics divide. We shall focus on four mathematical areas bordering computer science: logic, complexity, cryptography, and randomness.
Organizers: Dr. A. Beckmann, Professor S. B. Cooper, Professor B. Löwe, Professor E. Mayordomo and Professor N. Smart.
Information: `http://www.newton.ac.uk/programmes/SAS/`.

16–20 **Introductory Workshop: Lattice Models and Combinatorics**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1012)
Description: Research at the interface of lattice statistical mechanics and combinatorial problems of "large sets" has been an exciting and fruitful field in the last decade or so. In this workshop we plan to develop a broad spectrum of methods and applications, spanning the spectrum from theoretical developments to the numerical end. This will cover the behaviour of lattice models at a macroscopic level (scaling limits at criticality and their connection with SLE) and also at a microscopic level (combinatorial and algebraic structures), as well as efficient enumeration techniques and Monte Carlo algorithms to generate these objects.
Information: `http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm578`.

17–19 **ACM-SIAM Symposium on Discrete Algorithms (SODA12)**, The Westin Miyako, Kyoto, Japan. (Apr. 2011, p. 628)
Description: This symposium focuses on research topics related to efficient algorithms and data structures for discrete problems. In addition to the design of such methods and structures, the scope also includes their use, performance analysis, and the mathematical problems related to their development or limitations. Performance analyses may be analytical or experimental and may address worst-case or expected-case performance. Studies can be theoretical or based on data sets that have arisen in practice and may address methodological issues involved in performance analysis.
Information: `http://www.siam.org/meetings/da12/`.

23–27 **AIM Workshop: Set theory and C^*-algebras**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to applications of set theory to C^*-algebras.
Information: `http://aimath.org/ARCC/workshops/settheorycstar.html`.

30–May 4 **ICERM Semester Program: Complex and Arithmetic Dynamics**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 861)
Description: The goal of this program is to bring together researchers in complex dynamics, arithmetic dynamics, and related fields, with the purpose of stimulating interactions, promoting collaborations, making progress on fundamental problems, and developing theoretical and computational foundations on which future work will build.
Information: `http://icerm.brown.edu/sp-s12/`.

February 2012

* 6–10 **Hot Topics: Thin Groups and Super-strong Approximation**, Mathematical Sciences Research Institute, Berkeley, California.
Description: Will focus on recent developments concerning quantitative aspects of "thin groups". These are discrete subgroups of semisimple Lie groups which are both (i.e., Zariski dense) and (i.e., of infinite co-volume). This dual nature leads to intricate questions. Many new ideas and techniques, arising in particular from arithmetic combinatorics, have been involved in the study of such groups,

leading for instance to far-reaching generalizations of the strong approximation theorem in which congruence quotients are shown to exhibit a spectral gap. A variety of experts from group theory, number theory, ergodic theory and harmonic analysis will present the accomplishments to date to a broad audience and discuss directions for further study.
Information: http://www.msri.org/web/msri/scientific/show/-/event/Wm9222.

13–17 **Conference and MAGMA Workshop on "Symmetries of Discrete Objects"**, Rydges Lakeland Resort Hotel, Queenstown, New Zealand. (Aug. 2011, p. 1012)
Description: This event will be a combination of a research conference on symmetries of discrete objects (such as graphs, maps/dessins, polytopes, Riemann surfaces and other complexes), and a MAGMA workshop, including some instructional courses (well suited for graduate students) on the MAGMA package and its capabilities (especially for handling discrete structures and their automorphisms). The aim of the conference is to bring together researchers working in various inter-related fields, introduce their approaches and discoveries to one another, and to promote joint research in and between these fields. To achieve this we will have a small number of keynote talks, several contributed talks, at least one open problem session, and ample time for discussions and problem solving. Anyone with interest in automorphisms of discrete structures is welcome to consider attending.
Information: http://www.math.auckland.ac.nz/~conder/SODO-2012/.

13–17 **ICERM Workshop: Complex and p-adic Dynamics**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 861)
Description: This workshop will bring together researchers working in classical complex dynamics and in the newer area of p-adic (nonarchimedean) dynamics. It will promote interactions between the two groups by highlighting the similarities and differences between complex and p-adic dynamics. In particular, it will address Berkovich space, whose introduction has greatly enhanced the exchange of ideas between complex and p-adic dynamics.
Information: http://icerm.brown.edu/sp-s12/workshop-1.php.

13–17 **The 10th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing (MCQMC 2012)**, The University of New South Wales, Sydney, NSW, Australia. (Apr. 2011, p. 629)
Description: MCQMC is a biennial conference devoted to Monte Carlo and quasi-Monte Carlo methods and their interactions and applications. (In brief, quasi-Monte Carlo methods replace the random choices that characterize the Monte Carlo method by well chosen deterministic choices.) For more information, click on the "Background" tab on the web site. This will be the first MCQMC conference to be held in the southern hemisphere. (Northerners may like to be reminded that February is summertime in Sydney!).
Plenary speakers: P. Del Moral, M. Giles, F. J. Hickernell, A. Hinrichs, M. Lacey, K. Mengersen, A. Neuenkirch, A. B. Owen, L. Plaskota, E. Platen. To receive further announcements please go the web site, click on the "mailing list" tab, and sign up. The web site includes a call for special sessions.
Information: http://www.mcqmc2012.unsw.edu.au/.

20–24 **AIM Workshop: Stochastic dynamics of small networks of neurons**, American Institute of Mathematics, Palo Alto, California. (Jun/Jul. 2011, p. 861)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the area between carefully crafted stochastic models of single neurons and large networks of simpler ones.
Information: http://www.aimath.org/ARCC/workshops/neuronnetwork.html.

20–24 **Percolation and Interacting Systems**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1012)
Description: Over the last ten years there has been spectacular progress in the understanding of geometrical properties of random processes. Of particular importance in the study of these complex random systems is the aspect of their phase transition (in the wide sense of an abrupt change in macroscopic behavior caused by a small variation in some parameter) and critical phenomena, whose applications range from physics, to the performance of algorithms on networks, to the survival of a biological species. The aim of this workshop is to share and attempt to push forward the state-of-the-art understanding of the geometry and dynamic evolution of these models, with a main focus on percolation, the random cluster model, Ising and other interacting particle systems on lattices.
Information: http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm579.

27–March 2 **IMA Workshop: Network Links: Connecting Social, Communication and Biological Network Analysis**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Jan. 2011, p. 85)
Description: Networks occur in a large variety of disciplines, e.g. social networks, communication networks, gene regulatory networks, disease transmission networks, financial networks, power networks, etc. Common problems are how to model, map and measure the network, how to understand and adjust to network evolution and dynamics, and how network structure affects information flow and robustness/resilience of networks. These problems have often been studied in each discipline individually. In this workshop, we bring together researchers and methodologies of network analysis from three disciplines, to build on the similarities and contrasts among their approaches.
Information: http://www.ima.umn.edu/2011-2012/W2.27-3.2.12/.

March 2012

3–4 **AMS Western Section Meeting**, University of Hawaii, Honolulu, Hawaii. (May 2011, p. 744)
Information: http://www.ams.org/meetings/sectional/sectional.html.

5–9 **5th International Conference on High Performance Scientific Computing**, Institute of Mathematics, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Road, Hanoi, Vietnam. (Dec. 2010, p. 1498)
Description: Mathematical modelin, numerical simulation, methods for optimization and control, parallel computing: architectures, algorithms, tools, and environments, software development, applications of scientific computing in physics, mechanics, hydrology, chemistry, biology, medicine, transport, logistics, site location, communication, scheduling, industry, business, finance, etc.
Plenary Speakers: Frank Allgoewer (Stuttgart), Ralf Borndoerfer (Berlin), Ingrid Daubechies (Princeton), Mats Gyllenberg (Helsinki), Karl Kunisch (Graz), Bob Russell (Burnaby), Volker Schulz (Trier), Christoph Schwab (Zurich), Tamas Terlaky (Bethlehem, PA).
Deadlines: Deadline for registration and submission of abstracts: September 29, 2011. Notification of acceptance for presentation: December 21, 2011. Deadline for submission of data to apply for a business visa: January 6, 2012. Deadline for hotel reservation: January 6, 2012. Deadline for submission of full papers for the conference proceedings: May 12, 2012.
Information: http://hpsc.iwr.uni-heidelberg.de/HPSCHanoi2012.

10–11 **AMS Southeastern Section Meeting**, University of South Florida, Tampa, Florida. (May 2011, p. 744)
Information: http://www.ams.org/meetings/sectional/sectional.html.

12-15 **Computational Methods in High Energy Density Plasmas**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Mar. 2011, p. 497)

Description: High energy density physics (HEDP) is a rapidly growing field. HEDP conditions are typically from Mbar to tens of Gbar pressures and temperatures ranging from eV to GeV. This long program will focus on the computational approaches to the modeling of these extreme states of matter. It will address the scientific challenges facing the computational HEDP community and discuss the successes and failures of various methods. The long program will establish an interdisciplinary forum for researchers in HEDP. Funding for participants is available at all academic levels, though recent PhD's, graduate students, and researchers in the early stages of their career are especially encouraged to apply. Enhancing the careers of women and minority mathematicians and scientists is an important component of IPAM's mission and we welcome their applications. An application is available online. Applications will be accepted through November 12, 2011 but decisions will be made starting in June.

Information: `http://www.ipam.ucla.edu/programs/pl2012/`.

12-June 16 **AIM Workshop: Classifying fusion categories**, American Institute of Mathematics, Palo Alto, California. (May 2011, p. 744)

Description: This workshop, sponsored by AIM and the NSF, will be devoted to the classification problem for fusion categories, including those with additional structure, e.g., ribbon and modular fusion categories. More specifically, we will focus on the development and application of both theoretical and computational techniques for classifying fusion categories that are "small" in various senses.

Information: `http://aimath.org/ARCC/workshops/fusioncat.html`.

12-16 **ICERM Workshop: Global Arithmetic Dynamics**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 862)

Description: The aim of this workshop is to bring together leading researchers in global arithmetic dynamics and related fields to discuss recent result. In particular, we hope to attract researchers who work in arithmetic geometry, algebraic geometry, model theory, and computational algebra and number theory, with the dual goals of introducing the field of arithmetic dynamics and encouraging interactions among people working in these varied fields.

Information: `http://icerm.brown.edu/sp-s12/workshop-2.php`.

14-16 **IAENG International Conference on Operations Research 2012**, Royal Garden Hotel, Kowloon, Hong Kong.

Description: The conference ICOR'12 is held under the International MultiConference of Engineers and Computer Scientists 2012. The IMECS 2012 is organized by the International Association of Engineers (IAENG), a non-profit international association for the engineers and the computer scientists. The topics of the ICOR'12 include, but are not limited to, the following: management science, managerial economics, systems thinking and analysis, optimization integer programming, linear programming, nonlinear programming, assignment problem, transportation network design, simulation, statistical, analysis, stochastics, modelling reliability and maintenance, queueing theory, game theory, graph theory, OR algorithms and software developments, OR applications and case studies.

Information: `http://www.iaeng.org/IMECS2012/ICOR2012.html`.

17-18 **AMS Eastern Section Meeting**, George Washington University, Washington, District of Columbia. (May 2011, p. 744)

Information: `http://www.ams.org/meetings/sectional/sectional.html`.

* 24-25 **36th Annual SIAM Southwestern Atlantic Section Conference**, University of Alabama in Huntsville, Huntsville, Alabama.

Description: This two day conference will consist of a combination of plenary talks, parallel sessions, and poster sessions to exchange recent advances and future trends in applied and computational mathematics. There will be awards for best student presentation and best poster presentation. Graduate and undergraduate students who wish to be eligible for this award must indicate so via email to the organizers when they submit their abstracts. Both pre-registration and on-site registration will be available, entitling everyone who is registered to attend all talks Saturday and Sunday. The registration fee includes lunch on Saturday. Follow the links at the left to find information aboutv the conference, including conference program, registration, student paper competition, lodging, driving directions, and more.

Plenary speakers: H. T. Banks, North Carolina State University; Susanne C. Brenner, Michael F. and Roberta Nesbit McDonald, Lousiana State University; Jerrold R. Griggs, University of South Carolina; Max D. Gunzburger, Francis Eppes, Florida State University.

Deadline: Minisymposium proposals: February 1, 2012. Abstracts for contributed and minisymposium speakers: February 15, 2012.

Conference chair: Prof. S. S. Radindran; email: `ravinds@uah.edu`.

Information: `http://mullai.uah.edu/~ravindra/SEAS2012.html`.

25-28 **Conference on Partial Differential Equations and Applications**, Vietnam National University, Hanoi, Vietnam. (Jun/Jul. 2011, p. 862)

Description: The conference on partial differential equations and applications aims to present a broad and interdisciplinary overview of the current, state-of-the-art methods and techniques for characterizing PDEs. Moreover, various application areas will be highlighted where such techniques play critical roles in solving fundamental problems of interest to the broader scientific community. The conference will be preceded by a workshop aimed at graduate students and postdocs in the mathematical sciences who have a fundamental interest in PDE methods and applications.

Plenary Speakers: Marsha Berger (Courant, NYU), Peter Constantin (Chicago), Craig Evans (Berkeley), Tom Hou (Caltech), Carlos Kenig (Chicago), Sergiu Klainerman (Princeton), Randall LeVeque (Washington), Louis Nirenberg (Courant, NYU), Atsushi Yagi (Osaka).

Information: `http://www.amath.washington.edu/events/vietnam2012/`.

26-30 **AIM Workshop: Cohomological methods in abelian varieties**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1012)

Description: This workshop, sponsored by AIM and the NSF, will be devoted to the integral motive, Chow groups and etale cohomology of abelian varieties, and applications to arithmetic geometry.

Information: `http://www.aimath.org/ARCC/workshops/cohomabelian.html`.

26-30 (NEW DATE) **IMA Workshop: Machine Learning: Theory and Computation**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Jan. 2011, p. 85)

Topics: Topics to be discussed at the workshop include the interplay between machine learning (kernel learning, graphical models, online learning, active learning) with (a) statistical modeling and learning theory, (b) theoretical computer science, (c) numerical optimization, (d) topological methods, (e) tensor methods, and (f) sparse methods.

Information: `http://www.ima.umn.edu/2011-2012/W3.26-30.12/`.

30-31 **Information and Econometrics of Networks**, American University, Washington, District of Columbia. (Mar. 2011, p. 497)

Description: Social and economic networks are everywhere: from Facebook to the more complex global financial network or to networks connecting economic agents or to other complex and dynamic economic networks. The study of these networks is crucial for both academics and policy makers and presents a host of new theoretical and econometric challenges. This conference will concentrate on studying the information and econometrics of networks.

Hosts: The two-day conference is hosted by the Info-Metrics Institute and supported (partially) by the *Journal of Applied Econometrics* and will be organized jointly by Amos Golan (AU) and Essie Maasoumi (Emory).
Information: `http://www.american.edu/cas/economics/info-metrics/workshop/workshop-2012-sprin g.cfm`.

30–April 1 **AMS Central Section Meeting**, University of Kansas, Lawrence, Kansas. (May 2011, p. 744)
Information: `http://www.ams.org/meetings/sectional/sectional.html`.

April 2012

1-4 **The 8th International Conference on Scientific Computing and Applications (SCA2012)**, University of Nevada Las Vegas (UNLV), Las Vegas, Nevada. (Aug. 2011, p. 1012)
Description: This will be the 8th of the sequences of conferences on Scientific Computing and Applications (SCA) held in the Pacific Rim region (held previously in China, Canada, Hong Kong, Korean). This is the first time to be held in USA. The purpose of the meeting is to provide a forum for researchers working on various aspects of Scientific Computing and Applications to meet and move this area forward.
Co-Chairs of local organize committee: Jichun Li and Hongtao Yang (Univ of Nevada Las Vegas, USA).
Important Deadlines: November 1, 2011: Mini-symposium proposal due. December 1, 2011: Abstracts for all talks due.
Information: `http://www.unlv.edu/centers/cams/sca2012/sca2012.html`.

2-4 **SIAM Conference on Uncertainty Quantification (UQ12)**, Raleigh Marriott City Center Hotel, Raleigh, North Carolina. (Aug. 2011, p. 1012)
Description: Uncertainty quantification is key for achieving validated predictive computations in a wide range of scientific and engineering applications. The field relies on a broad range of mathematics and statistics groundwork, with associated algorithmic and computational development. This conference strives to bring together an interdisciplinary mix of mathematicians, statisticians, scientists, and engineers with an interest in development and implementation of uncertainty quantification methods. The goal of the meeting is to provide a forum for the sharing of ideas, and to enhance communication among this diverse group of technical experts, thereby contributing to future advances in the field.
Information: `http://www.siam.org/meetings/uq12/`.

2-6 **AIM Workshop: Vector equilibrium problems and their applications to random matrix models**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1013)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the study of vector equilibrium problems and their application to the asymptotic analysis of random matrix models.
Information: `http://aimath.org/ARCC/workshops/vectorequilib.html`.

16-20 **ICERM Workshop: Moduli Spaces Associated to Dynamical Systems**, ICERM, Providence, Rhode Island. (Jun/Jul. 2011, p. 862)
Description: The set of rational self-maps of Pn of degree d, which is denoted Ratdn, has a natural structure as an affine variety. The group PGLn+1 acts by conjugation on Ratdn, and the quotient space is the dynamical moduli space Mdn.
Information: `http://icerm.brown.edu/sp-s12/workshop-3.php`.

*20–22 **The Fifteenth Riviere-Fabes Symposium on Analysis and PDE**, School of Mathematics, University of Minnesota, Minneapolis, Minnesota.

Information: `http://www.math.umn.edu/`. Additional information on previous conferences in this series can be found on `http://www.math.umn.edu/conferences/riv fabes/`.

30–May 5 **Random Walks and Random Media**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1013)
Description: The field of random media has been the object of intensive mathematical research over the last thirty years. It covers a variety of models, mainly from condensed matter physics, physical chemistry, and geology, where one is interested in materials which have defects or inhomogeneities. These features are taken into account by letting the medium be random. It has been found that this randomness can cause very unexpected effects in the large scale behavior of these models; on occasion these run contrary to the prevailing intuition. A feature of this area, which it has in common with other areas of statistical physics, is that what was initially thought to be just a simple toy model has turned out to be a major mathematical challenge.
Information: `http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm581`.

May 2012

7-11 **IMA Workshop: User-Centered Modeling**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota.
Description: This data-driven workshop will explore the challenges for inference, models, algorithms and graphical and analytical tools that these different aspects of user-centered modeling raise. The plan is to start with enabling, evaluating, and analyzing data that users actively contribute in citizen science, taking into account thorny issues like data aggregation, selection bias, data quality, and inferential uncertainty, then move on to data that users passively contribute or leave behind on the Web, even when they are trying to hide, and asking the same questions in that context.
Information: See `http://www.ima.umn.edu/2011-2012/W5.7-11.12/`.

14-18 **AIM Workshop: ACC for minimal log discrepancies and termination of flips**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1013)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to two closely connected conjectures in the minimal model program.
Information: `http://www.aimath.org/ARCC/workshops/accflips.html`.

17-19 **International Conference on "Applied Mathematics and Approximation Theory 2012"**, TOBB University of Economics and Technology, Ankara, Turkey. (Aug. 2011, p. 1013)
Description: Celebrating the 60th birthday of Professor George Anastassiou.
Organizer: Oktay Duman, `oduman@etu.edu.tr`.
Topics: Applied Mathematics and Approximation Theory in the broad sense.
Plenary Speakers: George Anastassiou, Martin Bohner, Dimitru Baleanu, Heiner Gonska, Weimin Han, Cihan Orhan.
International Organizing Committee: Jerry Bona, Sever Dragomir, Sorin Gal, Narenda Govil, Anna Kaminska, Ram Mohapatra, Gaston N'Guerekata, Richard Zalik.
Information: `http://amat2012.etu.edu.tr/`.

20-22 **SIAM Conference on Imaging Science (IS12)**, Doubletree Hotel Philadelphia, Philadelphia, Pennsylvania.
Description: This conference is sponsored by the SIAM Activity Group on Imaging Science. The call for papers will be posted online in July 2011.
Information: See `http://www.siam.org/meetings/is12/`.

20-25 **7th European Conference on Elliptic and Parabolic Problems**, Gaeta, Italy. (May 2011, p. 744)

Description: Besides Elliptic and Parabolic issues, the topics of the conference include Geometry, Free Boundary Problems, Fluid Mechanics, Evolution Problems in general, Calculus of Variations, Homogenization, Control, Modeling and Numerical Analysis. In addition to the plenary talks parallel sessions and minisymposia will be organized.
Information: `http://www.math.uzh.ch/gaeta2012`.

21-25 **AIM Workshop: Contact topology in higher dimensions**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1013)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to developing high dimensional contact topology.
Information: `http://www.aimath.org/ARCC/workshops/contacttop.html`.

28–June 3 **International Conference "Theory of Approximation of Functions and its Applications"**, Kamianets-Podilsky Ivan Ohienko National University, Kamianets-Podilsky, Ukraine. (Jun/Jul. 2011, p. 862)
Description: International Conference "Theory of Approximation of Functions and its Applications" dedicated to the 70th anniversary of corresponding member of National Academy of Sciences of Ukraine, Professor O. I. Stepanets (1942–2007).
Information: `http://www.imath.kiev.ua/~funct/stepconf2012/en/`.

* 30–June 2 **12th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics**, Vienna University of Technology, Vienna, Austria.
Description: As the preceding meetings in this series, the workshop aims at bringing together researchers in optimal control, dynamic games and nonlinear dynamical systems, as well as in economics, management, environment, population dynamics and social sciences. The topics of the workshop will include, but are not limited to, the theory and numerical methods of optimal control, differential games, bifurcation theory, and a broad spectrum of applications involving dynamic economic models (including heterogeneous/distributed ones), dynamic models in population and health economics, economic geography, demography, epidemiology, social sciences, etc.
Information: `http://orcos.tuwien.ac.at/events/ocdgnd_2012/#c29435`.

June 2012

12-15 **"The Incomputable" — A workshop of the 6-month Isaac Newton Institute programme — "Semantics and Syntax: A Legacy of Alan Turing" (SAS)**, Kavli Royal Society International Centre, Chicheley Hall, Newport Pagnell MK16 9JJ, United Kingdom. (Aug. 2011, p. 1013)
Description: The Incomputable is one of a series of special events, running throughout the Alan Turing Year, celebrating Turing's unique impact on mathematics, computing, computer science, informatics, morphogenesis, philosophy and the wider scientific world. It is held in association with the Turing Centenary Conference (CiE 2012) in Cambridge the following week, which will run up to the June 23rd centenary of Turing's birth, and will culminate with a birthday celebration at Turing's old college, King's College, Cambridge. The Incomputable is unique in its focus on the mathematical theory of incomputability, and its relevance for the real world. This is a core aspect of Turing's scientific legacy — and this meeting for the first time reunites (in)computability theory and 'big science' in a way not attempted since Turing's premature passing. In 2012, the annual Workshop on Computability Theory is being held in conjunction with The Incomputable.
Contact: S. Barry Cooper; email: `pmt6sbc@leeds.ac.uk`.
Information: `http://www.mathcomp.leeds.ac.uk/turing2012/inc/`.

* 13-16 **SIAM Conference on Nonlinear Waves and Coherent Structures (NW12)**, The University of Washington, Seattle, Washington.
Call for Papers/Information: The call for papers for this conference will be available in August 2011 at `http://www.siam.org/meetings/nw12/`.

* 18-22 **AIM Workshop: Dynamics of the Weil-Petersson geodesic flow**, American Institute of Mathematics, Palo Alto, California.
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the study of recent advances in understanding deformations of Riemann surfaces via the Weil-Petersson metric on Teichmuller and moduli spaces.
Information: `http://www.aimath.org/ARCC/workshops/weilpetersson.html`.

18-23 **Turing Centenary Conference (CiE 2012): How the World Computes**, University of Cambridge, Cambridge, United Kingdom. (Aug. 2011, p. 1013)
Description: CiE 2012 is one of a series of special events, running throughout the Alan Turing Year, celebrating Turing's unique impact on mathematics, computing, computer science, informatics, morphogenesis, philosophy and the wider scientific world. Its central theme is the computability-theoretic concerns underlying the broad spectrum of Turing's interests, and the contemporary research areas founded upon and animated by them. In this sense, CiE 2012, held in Cambridge in the week running up to the centenary of Turing's birthday, deals with the essential core of what made Turing's contribution so influential and long-lasting. CiE 2012 promises to be an event worthy of the remarkable scientific career it commemorates.
Invited speakers: Veronica Becher, Lenore Blum, Rodney Downey, Yuri Gurevich, Juris Hartmanis, Andrew Hodges, Richard Jozsa, Stuart Kauffman, Paul Smolensky, James Murray, Leslie Valiant.
Deadline: For submissions: January 27, 2012.
Contact: email: `anuj.dawar@cl.cam.ac.uk`.
Information: `http://www.cie2012.eu`.

July 2012

* 1-5 **9th AIMS conference on Dynamical Systems, Differential Equations and Applications**, Orlando, Florida.
Plenary speakers: Andrea Bertozzi, Michael Dellnitz, Eduard Feireisl, Avner Friedman, Yuan Lou, Andrew Majda, J. M. Sanz-Serna, Jianhong Wu.
Format: Plenary talks; 30-minute special session talks; 20-minute contributed talks. Proposals to organize a special session are welcome. The Proceedings will be published.
Topics: Keeping the tradition of the AIMS Conference Series, the conference covers all major areas of analysis and dynamics, with emphases on theory, methods, application, modeling and computations.
Organizer: The American Institute of Math Sciences.
Information: `http://www.aimsciences.org`.

9-15 **The 10th International Conference on Fixed Point Theory and its Applications (ICFPTA-2012)**, Faculty of Mathematics and Computer Science, Babes, Bolyai University, Cluj-Napoca, Romania. (Jun/Jul. 2011, p. 862)
Description: The purpose of the conference is to bring together leading experts and researchers in fixed point theory and to assess new developments, ideas and methods in this important and dynamic field. A special emphasis will be put on applications in related areas, as well as other sciences, such as the natural sciences, medicine, economics and engineering. The conference will continue the tradition of the previous fixed point theory meetings which were held in Marseille (1989), Halifax (1991), Seville (1995), Kazimierz Dolny (1997), Haifa (2001), Valencia (2003), Guanajuato (2005), Chiang Mai (2007) and Changhua (2009). The conference will honour Professor Kazimierz Goebel, on the occasion of his retirement, and Professors Ljubomir Ciric, William Art Kirk and Ioan A. Rus, on the occasion of their 75th birthday.

Information: `http://www.cs.ubbcluj.ro/~fptac/`.

16–December 21 **Topological Dynamics in the Physical and Biological Sciences**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (April 2011, p. 629)
Description: The programme is intended to stimulate interaction between applied mathematicians, biologists and physicists who frequently encounter dynamical problems that have some explicit or implicit topological content. We use the term 'topological' to convey the idea of structures, e.g. knots, links or braids in 3D, that exhibit some measure of invariance under continuous deformation. Dynamical evolution is then subject to the topological constraints that express this invariance. A basic common problem is to determine minimum energy structures (and routes towards these structures) permitted by such constraints; and to explore mechanisms, e.g.diffusive, by which such constraints may be broken. Workshops: A number of workshops will take place during the programme. For full details please see: `http://www.newton.ac.uk/events.html`.
Organizers: Professor K. Bajer (Warsaw), Professor T. W. Kephart (Vanderbilt), Professor Y. Kimura (Nagoya), Professor H. K. Moffatt (Cambridge) and Professor A. Stasiak (Lausanne).
Information: `http://www.newton.ac.uk/programmes/TOD/`.

23–August 17 **Spectral Theory of Relativistic Operators**, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom.
Description: Relativistic operators are used to model important physical systems which include transport properties of graphene, and relativistic quantum field theory. This meeting will focus on the following areas of current research interest in such operators applied to mathematical physics. 1. For classical (one-particle) Dirac operators, current topics of interest include the Weyl-type theory, dissolution of eigenvalues of corresponding relativistic systems into resonances, asymptotics of the spectral function and spectral concentration as well as the role of the mass term of Dirac operators. 2. Stability of matter and asymptotic behaviour of the ground state energy for relativistic many-particle systems. 3. The interaction of photons with fast moving (relativising) electrons, positrons, and photons.
Organizers: Professor M. Brown (Cardiff), Professor M. J. Esteban (Ceremade), Dr. K. M. Schmidt (Cardiff) and Professor H. Siedentop (Munich).
Information: `http://www.newton.ac.uk/programmes/SRO/`.

30–August 3 **Iwasawa 2012**, Heidelberg University, Heidelberg, Germany. (Feb. 2011, p. 336)
Description: The Mathematics Center Heidelberg (MATCH) will host the conference "Iwasawa 2012" which is the fifth conference in a bi-annual series. The conference aims to provide a platform to present and discuss the latest developments of research in the area of Iwasawa theory.
Information: `http://www.mathi.uni-heidelberg.de/~iwasawa2012/`.

August 2012

6–11 **XVII International Congress on Mathematical Physics (ICMP12)**, Aalborg Kongress og Kultur Center, Europa Plads 4, 9000 Aalborg, Denmark. (Aug. 2011, p. 1013)
Description: The International Association of Mathematical Physics (IAMP) and the Local Organizing Committee invite you to participate in the XVII International Congress on Mathematical Physics (ICMP12). It will be held in Aalborg, Denmark, August 6-11, 2012. The International Congress on Mathematical Physics is held every three years. It is a major event in the mathematical physics community. The congress will present new results and future challenges, in a series of plenary lectures and topical sessions.
Information: `http://www.icmp12.com/`.

20–24 **AIM Workshop: Invariants in convex geometry and Banach space theory**, American Institute of Mathematics, Palo Alto, California. (Aug. 2011, p. 1013)
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the study of invariants related to a few important problems at the intersection of geometric analysis and Banach space theory.
Information: `http://www.aimath.org/ARCC/workshops/convexbanach.html`.

27–September 7 **Joint Introductory Workshop: Cluster Algebras and Commutative Algebra**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1013)
Description: This workshop will take place at the opening of the MSRI special programs on Commutative Algebra and on Cluster Algebras. It will feature lecture series at different levels, to appeal to a wide variety of participants. There will be minicourses on the basics of cluster algebras, and others developing particular aspects of cluster algebras and commutative algebra.
Information: `http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm557`.

September 2012

3–7 **International Conference on Differential-Difference Equations and Special Functions**, University of Patras, Patras, Greece. (Aug. 2011, p. 1014)
Description: The conference is dedicated to the memory of Professor Panayiotis D. Siafarikas, who left so early in 2010 and its main aim is to bring together experts working in all areas (including numerical investigations and applications) of differential equations, difference equations and special functions and to promote the research in these areas.
Information: `http://www.icddesf.upatras.gr`.

22–23 **AMS Eastern Section Meeting**, Rochester Institute of Technology, Rochester, New York.
Information: `http://www.ams.org/meetings/sectional/sectional.html`.

October 2012

2–4 **SIAM Conference on Mathematics for Industry: Challenges and Frontiers (MI12)**, The Curtis, A Doubletree by Hilton, Denver, Colorado. (Aug. 2011, p. 1014)
Description: The SIAM conferences on Mathematics for Industry focus attention on the many and varied opportunities to promote applications of mathematics to industrial problems. From the start of planning for these conferences, the major objective has been the development and encouragement of industrial, government and academic collaboration. The format of this conference provides a forum for industrial and government engineers and scientists to communicate their needs, objectives and visions, to the broad mathematical community.
Information: `http://www.siam.org/meetings/mi12/`.

13–14 **AMS Southeastern Section Meeting**, Tulane University, New Orleans, Louisiana. (Aug. 2011, p. 1014)
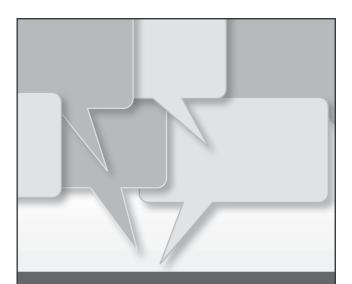**Information:** `http://www.ams.org/meetings/sectional/sectional.html`.

20–21 **AMS Central Section Meeting**, University of Akron, Akron, Ohio. (Aug. 2011, p. 1014)
Information: `http://www.ams.org/meetings/sectional/sectional.html`.

27–28 **AMS Western Section Meeting**, University of Arizona, Tucson, Arizona. (Aug. 2011, p. 1014)
Information: `http://www.ams.org/meetings/sectional/sectional.html`.

Mathematics Calendar

January 2013

24–25 **Connections for Women: Noncommutative Algebraic Geometry and Representation Theory**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1014)
Description: The Connections for Women workshop associated with the MSRI program in noncommutative algebraic geometry and representation theory is intended to bring together women who are working in these areas in all stages of their careers. As the first event in the semester, this workshop will feature a "tapas menu" of current research and open questions: light but intriguing tastes, designed to encourage further exploration and interest. Talks will be aimed at a fairly general audience and will cover diverse topics within the theme of the program. In addition, there will be a poster session for graduate students and recent Ph.D. recipients and a panel discussion on career issues, as well as free time for informal discussion.
Information: http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9061.

28–February 1 **Introductory Workshop: Noncommutative Algebraic Geometry and Representation Theory**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1014)
Description: This workshop will provide several short lecture series consisting of two or three lectures each to introduce postdocs, graduate students and non-experts to some of the major themes of the conference. While the precise topics may change to reflect developments in the area, it is likely that we will run mini-series in the following subjects: noncommutative algebraic geometry; D-module theory; derived categories; noncommutative resolutions of singularities; deformation-quantization; symplectic reflection algebras; growth functions of infinite dimensional algebras.
Information: http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9062.

April 2013

8-12 **Interactions between Noncommutative Algebra, Representation Theory, and Algebraic Geometry**, Mathematical Sciences Research Institute, Berkeley, California. (Aug. 2011, p. 1014)
Description: In recent years there have been increasing interactions between noncommutative algebra/representation theory on the one hand and algebraic geometry on the other. This workshop would aim to examine these interactions and, as importantly, to encourage the interactions between the three areas. The precise topics will become more precise nearer the time, but will certainly include: Noncommutative algebraic geometry; noncommutative resolutions of singularities and Calabi-Yau algebras; symplectic reflection and related algebras; D-module theory; deformation-quantization.
Information: http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9063.

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.

July 2013

* 29–August 2 **36th Conference on Stochastic Processes and their Applications**, Boulder, Colorado.
Information: More information will be provided at a future date; email: brian.rider@colorado.edu.

August 2013

5-9 **XXII Rolf Nevanlinna Colloquium**, Helsinki, Finland. (Aug. 2011, p. 1014)
Description: For further information, please contact Kirsi Peltonen, Aalto University; email: kirsi.peltonen@tkk.fi.