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# Mathematics Calendar

Please submit conference information for the Mathematics Calendar through the Mathematics Calendar submission form at <http://www.ams.org/cgi-bin/mathcal-submit.pl>.

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

## March 2011

2–5 **Integration, Vector Measures and Related Topics IV. Dedicated to Joe Diestel**, University of Murcia, Murcia, Spain. (Dec. 2010, p. 1495)

\* 5–6 **Great Lakes Geometry Conference 2011**, Ohio State University, Columbus, Ohio.

**Description:** The 2011 edition of the Great Lakes Geometry Conference will feature topics related to Gromov-Witten theory, topological field theory, and geometric analysis. If you plan to attend the conference, please register by sending an e-mail to: [glgc2011@yahoo.com](mailto:glgc2011@yahoo.com) with your name, title, and affiliation. Pending NSF awards, partial support will be available for graduate students, post docs, and unsupported faculties.

**Organizers:** Contact the organizers for information: Bo Guan (OSU), Hsian-Hua Tseng (OSU), Damin Wu (OSU).

**Speakers:** Dan Abramovich (Brown), Ezra Getzler (Northwestern), Chiu-Chu Melissa Liu (Columbia), William Minicozzi II (Johns Hopkins), Xiaochun Rong (Rutgers), Richard Schoen (Stanford), A. J. Tolland (Stony Brook).

**Information:** [http://www.math.ohio-state.edu/~hhtseng/glgc11\\_main.html](http://www.math.ohio-state.edu/~hhtseng/glgc11_main.html).

7–11 **Free Boundary Problems, Theory and Applications Workshop**, Mathematical Sciences Research Institute, Berkeley, California. (Jun./Jul. 2010, p. 785)

7–11 (NEW DATE) **IMA Workshop: Computing in Image Processing, Computer Graphics, Virtual Surgery, and Sports**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2010, p. 552)

12–13 **AMS Southeastern Section Meeting**, Georgia Southern University, Statesboro, Georgia. (Sept. 2010, p. 1034)

\* 14–18 **Instantons in complex geometry**, Laboratory of Algebraic Geometry, Higher School of Economics, Moscow, Russia.

**Description:** The Kobayashi-Hitchin correspondence, proven by Donaldson and Uhlenbeck-Yau, allows one to use the methods of theoretical physics and geometric analysis to study the classical structures of algebraic geometry. We aim to bring together specialists in complex algebraic geometry and related gauge theory to review the recent advances in the theory of stable bundles and their moduli spaces.

**Organizers:** Dimitri Markushevich (Univ. de Lille), email: [markushe@math.univ-lille1.fr](mailto:markushe@math.univ-lille1.fr); Alexander Tikhomirov (YSPU, Yaroslavl), email: [astikhomirov@mail.ru](mailto:astikhomirov@mail.ru); Misha Verbitsky (HSE, Moscow), email: [verbit@verbit.ru](mailto:verbit@verbit.ru).

**Information:** <http://bogomolov-lab.ru/INST/>.

14–18 **Workshop 4: Insect Self-organization and Swarming**, Mathematical Biosciences Institute, The Ohio State University, Columbus, Ohio. (Jan. 2011, p. 82)

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

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

**In general**, announcements of meetings and conferences carry only the date, title of meeting, place of meeting, names of speakers (or sometimes a general statement on the program), deadlines for abstracts or contributed papers, and source of further information. If there is any application deadline with respect to participation in the meeting, this fact should be noted. All communications on meetings and conferences

in the mathematical sciences should be sent to the Editor of the *Notices* in care of the American Mathematical Society in Providence or electronically to [notices@ams.org](mailto:notices@ams.org) or [mathcal@ams.org](mailto:mathcal@ams.org).

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

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

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

\* 14–19 **Short Courses and Workshop on Spectral Function Theory**, Centre de Recerca Matemàtica, Bellaterra, Spain.

**Description:** Spectral complex analysis was created in the classical works by Carleman and Wiener, and then developed by Beurling, Krein, Levinson and many other prominent analysts of the 20th century. The unifying theme of these works is the complex Fourier transform, which translates various problems of real harmonic analysis into the language of complex analysis. This field, which originally studied problems such as sampling, interpolation and uniqueness in Paley-Wiener spaces, the uncertainty principle, various notions of spectrum of a function and related questions of spectral analysis and synthesis, has been expanding in several directions. A series of mini-courses will provide a perspective of the areas in which the field is developing. This will be continued with a two-day work-shop where some of the latest advances in the area will be presented.

**Information:** <http://www.crm.cat/wkspectral>.

14–June 10 **Probability and Discrete Mathematics in Mathematical Biology**, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Nov. 2010, p. 1348)

14–June 17 **Navigating Chemical Compound Space for Materials and BioDesign**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Jan. 2010, p. 76)

16–18 **IAENG International Conference on Operations Research 2011**, Royal Garden Hotel, Kowloon, Hong Kong. (Aug. 2010, p. 904)

17–18 **Finitely presented solvable groups**, The City College of New York, New York, New York. (Jan. 2011, p. 82)

17–19 **The 45th Annual Spring Topology and Dynamical Systems Conference**, University of Texas at Tyler, Tyler, Texas. (Oct. 2010, p. 1165)

18–20 **AMS Central Section Meeting**, University of Iowa, Iowa City, Iowa. (Sept. 2010, p. 1034)

21–24 **SIAM Conference on Mathematical & Computational Issues in the Geosciences**, Hilton Long Beach & Executive Meeting Center, Long Beach, California. (Dec. 2010, p. 1495)

21–25 **AIM Workshop: Hypergraph Turán Problem**, American Institute of Mathematics, Palo Alto, California. (Aug. 2010, p. 905)

21–25 **Young Set Theory Workshop 2011**, A.-Z. Königswinter near Bonn, Germany. (Feb. 2011, p. 334)

22–26 **Current Topic Workshop: New Developments in Dynamical Systems Arising from the Biosciences**, Mathematical Biosciences Institute, The Ohio State University, Columbus, Ohio. (Jan. 2011, p. 82)

\* 23–26 **SETIT'11**, Sousse, Tunisia.

**Extended Deadline and Financial Support:** At the request of a number of potential contributors, we have decided to extend the deadline for receipt of papers to be presented to The 6th International Conference: Sciences of Electronics, Technologies of Information and Telecommunications SETIT 2011. This deadline is extended to December 31, 2010. The paper submission is on-line at: <http://www.setit.rnu.tn/?pg=submission>. In this conference; 300 participants will benefit from financial support. This financial support, of amount 250 euro, will be available to help participants from developing or emerging countries as well as young researchers to attend SETIT'2011. The financial support form is available on the web site: <http://www.setit.rnu.tn/FinancialSupport.dot>. It should be filled in detail and sent by e-mail to [financialsupport.setit@gmail.com](mailto:financialsupport.setit@gmail.com). The SETIT organization committee will examine on a case by case basis all requests and provide a reply in a one week period. Please note that financial support requests must be sent before January 15, 2011. Online registration can be found at: [http://www.setit.rnu.tn/?main=1&pg=registration\\_aut](http://www.setit.rnu.tn/?main=1&pg=registration_aut).

**Deadlines:** Extended Deadline: December 31, 2010. Notification of acceptance: January 31, 2011. Final manuscript due: February 15, 2011. Main conference: March 23–26, 2011.

**Information:** You can find more details in: <http://www.setit.rnu.tn/>

25–27 **The Seventh International Conference on Number Theory and Smarandache Notions**, Weinan Teachers University, Weinan, Shaanxi, People's Republic of China. (Jan. 2011, p. 82)

28–April 1 **International Conference on Homotopy and Non-Commutative Geometry**, Batumi State University, Batumi, Republic of Georgia. (Jun./Jul. 2010, p. 785)

28–April 1 **International workshop: Unlikely intersections in algebraic groups and Shimura varieties**, Scuola Normale Superiore, Centro di Ricerca Matematica Ennio De Giorgi, Pisa, Italy. (Oct. 2010, p. 1165)

29–30 **International Workshop on Mathematical and Physical Foundations of Discrete Time Quantum Walk**, Oh-Okayama Campus, Tokyo Institute of Technology, Meguro, Tokyo, Japan. (Jan. 2011, p. 82)

#### April 2011

1–3 **Underrepresented Students in Topology and Algebra Research Symposium (USTARS): Research symposium for underrepresented graduate students in Algebra and Topology**, University of Iowa, Iowa City, Iowa. (Jan. 2011, p. 82)

2–3 **Midwest Graduate Student Topology and Geometry Conference**, Michigan State University, East Lansing, Michigan. (Oct. 2010, p. 1165)

\* 6–8 **Workshop on Dynamics and  $C^*$ -Algebras**, Centre de Recerca Matemàtica, Bellaterra, Spain.

**Description:** Classification is a central theme in mathematics. It has driven some of the most exciting developments of the 20th century, and is particularly prominent in the theory of operator algebras. The Elliott Program seeks classification of simple, separable and amenable  $C^*$ -algebras by means of  $K$ -theoretical data. Following a remarkable success in the nineties, it has enjoyed a resurgence of late, owing to the discovery by M. Rordam (and later, in a different direction, A. Toms) that  $K$ -theory alone, at least in its naive topological formulation, does not suffice for the classification of all simple separable amenable  $C^*$ -algebras. Rather than being a detracting factor, this opens up two ways forward: restrict the class of  $C^*$ -algebras considered, or enlarge the proposed invariant.

**Information:** <http://www.crm.cat/wkalgebras>.

\* 7–9 **Conformal Differential Geometry and its Interaction with Representation Theory**, University of Arkansas, Fayetteville, Arkansas.

**Description:** The 36th Annual Spring Lecture Series in Mathematics at the University of Arkansas titled “Conformal Differential Geometry and its Interaction with Representation Theory” will be held at the University of Arkansas from April 7–9, 2011. Professor Michael Eastwood will give a series of five lectures, and there will be an additional ten invited talks. The conference is partially supported by the NSF and participants are welcome to give a contributed talk. Funding for travel and lodging is available for junior participants.

**Information:** <http://math.uark.edu/3723.php>.

7–9 **ICMCS'11 - IEEE co-sponsored Conference 2nd International Conference on Multimedia Computing and Systems**, Ouarzazate, Morocco. (Aug. 2010, p. 905)

9–10 **AMS Eastern Section Meeting**, College of the Holy Cross, Worcester, Massachusetts. (Sept. 2010, p. 1034)

11–15 **Arithmetic Statistics**, Mathematical Sciences Research Institute, Berkeley, California. (Jun./Jul. 2010, p. 785)

11–15 **IMA Workshop: Societally Relevant Computing**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2010, p. 552)

11–16 **The Fifth de Brun Workshop: Groups, Combinatorics, Computing**, National University of Ireland, Galway, Ireland. (Jan. 2011, p. 83)

12–14 **International Conference on Mathematical and Computational Biology 2011(ICMCB2011)**, Malacca, Malaysia. (Jan. 2011, p. 83)

14–16 **The First International Conference on Multidimensional Finance, Insurance and Investment: ICMFII 2011**, Hammamet, Tunisia. (Nov. 2010, p. 1348)

17–19 **7th IMA Modelling in Industrial Maintenance and Reliability**, Sidney Sussex College, University of Cambridge, United Kingdom. (Sept. 2010, p. 1035)

18–22 **Computational Statistical Methods for Genomics and Systems Biology**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, Montréal, (Québec) H3T 1J4 Canada. (Aug. 2010, p. 905)

27–28 **Third Conference on Mathematical Sciences (CMS'2011)**, Department of Mathematics, Faculty of Science and Information Technology, Zarqa Private University, Zarqa, Jordan. (Aug. 2010, p. 905)

28–30 **SIAM International Conference on Data Mining**, Hilton Phoenix East/Mesa, Mesa, Arizona. (Dec. 2010, p. 1495)

\* 29–May 1 **Graduate Student Probability Conference at Georgia Tech**, Georgia Institute of Technology, Atlanta, Georgia.

**Description:** The conference is open to all graduate students and post-doctoral fellows who are interested in probability. It is organized by students from Georgia Tech under the supervision of Professor Christian Houdré.

**Keynote speakers:** Professor Nathalie Eisenbaum (Université Pierre et Marie Curie) and Professor Philip Protter (Columbia University). They will each give talks daily about areas of interest within their research.

**Organizers:** The student organizers are Allen Hoffmeyer (head organizer), Huy Huynh (head organizer), Ruoting Gong, Linwei Xin, Jinyong Ma, and Ruodu Wang

**Information:** This year, we are expecting over 100 participants from all over the country to join the conference. This conference is a great opportunity to give a talk in a friendly environment, so we encourage you to register to speak if you are interested. The website will be the source of all information for a variety of topics (funding, travel info, etc.), and the page will be updated frequently. <http://gspc.math.gatech.edu/>.

30–May 1 **AMS Western Section Meeting**, University of Nevada, Las Vegas, Nevada. (Sept. 2010, p. 1035)

## May 2011

\* 1–7 **Talbot Workshop in Non-Abelian Hodge Theory**, Salt Lake City, Utah.

**Description:** The workshop, mentored by Carlos Simpson, will constitute a weeklong retreat with talks and organized discussions during the mornings and evenings, informal discussions and collaborations during the afternoon. The workshop will generally focus on understanding the representations of fundamental groups of algebraic varieties. Topics developed may include the harmonic theory relating the moduli of Higgs bundles to the moduli of G-bundles with flat connection, deformation theory, the topology of character varieties and symplectic/hyperkahler structures on moduli spaces, and further directions of research. The workshop will have an expository character and is aimed at graduate students and junior

faculty interested in this area. Most talks will be given by participants of the workshop.

**Information:** For more information, please visit the website listed below. Interested participants should fill out the application form on the website by January 31, 2011; <http://math.mit.edu/talbot>.

1–August 31 **MITACS International Focus Period on Advances in Network Analysis and its Applications**, Locations throughout Canada. (Apr. 2010, p. 552)

\* 2 **Info-Metrics across the Sciences**, American University, Washington, District of Columbia.

**Description:** The objective of this workshop is to continue the exploration into the basics of info-Metrics and entropic inference. In that workshop we focus on Info-Metrics in the natural sciences, study the state of information-theoretic estimation and data analysis in some areas of the natural sciences, and then discuss the implications of info-metrics in the natural sciences to the social sciences in general and to economics, econometrics, statistics and finance in particular.

**Hosts:** The workshop is hosted by the Info-Metrics Institute. The co-chairs are Amos Golan (AU), and Ariel Caticha (SUNY Albany).

**Information:** <http://www.american.edu/cas/economics/info-metrics/workshop/index.cfm>.

\* 2–3 **Present your research work in ICQI'2011**, Lahore, Pakistan.

**Description:** 2nd Regional Asian Network for Quality Conference: ICQI Final 20 Dec 2010.gif.

**Information:** You may use the following links directly also: <http://www.easychair.org/account/signin.cgi?conf=icqi2011>; email: [icqi@piqc.com.pk](mailto:icqi@piqc.com.pk).

2–4 **Statistical Issues in Forest Management**, Université Laval, Québec City, Canada. (Aug. 2010, p. 905)

5–7 **Workshop Discrete, Tropical and Algebraic Geometry**, Goethe University, Frankfurt am Main, Germany. (Feb. 2011, p. 334)

9–13 **Causal Inference in Health Research**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, Montréal, (Québec) H3T 1J4 Canada. (Aug. 2010, p. 905)

10–13 **Second Buea International Conference on the Mathematical Sciences**, University of Buea, Cameroon. (Jan. 2011, p. 83)

14–15 **Methodological Aspects of Teaching Mathematics**, Faculty of Education in Jagodina, Jagodina, Serbia. (Jan. 2011, p. 83)

16–19 **Analysis of Survival and Event History Data**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, Montréal, (Québec) H3T 1J4 Canada. (Aug. 2010, p. 905)

16–19 **SIAM Conference on Optimization**, Darmstadtium Conference Center, Darmstadt, Germany. (Dec. 2010, p. 1496)

16–20 **IMA Hot Topics Workshop: Strain Induced Shape Formation: Analysis, Geometry and Materials Science**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Jan. 2011, p. 83)

\* 16–20 **NSF/CBMS Conference on “Deformation Theory of Algebras and Modules”**, North Carolina State University, Raleigh, North Carolina.

**Principal Speaker:** Professor Martin Markl.

**Organizers:** Kailash C. Misra and Thomas J. Lada.

**Information:** email: [misra@math.ncsu.edu](mailto:misra@math.ncsu.edu); [lada@math.ncsu.edu](mailto:lada@math.ncsu.edu); <http://www4.ncsu.edu/~lada/nsfcbms.htm>.

\* 20–22 **Workshop: “The method to yield analytical solutions for dynamic systems”**, Laboratory SELF, Ochakov, Ukraine.

**Description:** We have developed a new method to yield exact and complete analytical solutions. We have solved a broad amount of problems for mechanical systems and electric circuits, distributed, lumped and combined; under matched and mismatched load and for unsteady processes; when the force affects the first either inner element of the system, along, across the system and when the force

is inclined; ideal and resistant (with attenuation), linear and nonlinear, bended, closed-loop and spider-like, with resonance subsystems etc. This method allows applying numerical techniques well after we reveal features of the model making possible to correct the numerical calculation, achieving better correspondence to the modelled process. The possibility to model with analytical functions makes the final numerical modelling less laborious. The experimental check of our solutions showed full coincidence of results. To disseminate this method, we will conduct this second workshop.

**Information:** <http://selflab.com.ua/index2.htm>.

22–26 **SIAM Conference on Applications of Dynamical Systems (DS11)**, Snowbird Ski and Summer Resort, Snowbird, Utah. (Mar. 2010, p. 434)

22–27 **Progress on Difference Equations 2011**, Dublin City University, Dublin, Ireland. (Dec. 2010, p. 1496)

23–26 **MAMERN'11: 4th International Conference on Approximation Methods and Numerical Modeling in Environment and Natural Resources**, Saidia, Morocco.

\* 23–27 **The 81st European Study Group with Industry**, ISEG, Technical University of Lisbon, Lisbon, Portugal.

**Description:** This meeting is part of the series of European Study Groups and will count on the participation of several experts with a large experience in this type of events. The purpose of these meetings is to strengthen the links between Mathematics and Industry by using Mathematics to tackle industrial problems which are proposed by industrial partners.

**Information:** <http://cemapre.iseg.utl.pt/esgi81/>.

\* 25–26 **Geometric Topology of Knots**, Centro di Ricerca Matematica “Ennio De Giorgi”, Collegio Puteano, Piazza dei Cavalieri 3, Pisa, Italy.

**Description:** As other branches of 3-dimensional topology, the theory of knots and links was deeply revolutionized by the geometric approach first developed by Thurston. This workshop will focus on the geometry of knots, and particularly on aspects of hyperbolic geometry and the knot invariants associated with it, most notably the volume. Strong emphasis will be put on the relationships between these geometric invariants and the more classical ones, such as the crossing number. The algorithmic and computational methods now available to construct hyperbolic structures, and to compute invariants, will also be considered as central topics.

**Invited Speakers:** Michel Boileau (Univ. Toulouse), Cameron Gordon (Univ. Texas, Austin), Marc Lackenby (Univ. Oxford), Feng Luo (Rutgers Univ.), Walter Neumann (Columbia Univ.), Jessica Purcell (Brigham Young Univ.)

**Information:** <http://www.crm.sns.it/event/205/>.

\* 25–27 **Operator theory and boundary value problems**, University Paris-Sud, Orsay, France.

**Description:** We are organizing a conference on the applications of the operator theory to the study of the boundary value problems arising in quantum mechanics and other areas. The boundary value problems are understood not only in the classical sense of PDE, but include also systems with singularities or structures composed of pieces of different nature and involving boundary conditions at the interaction set. We are planning to have three days of talks, May 24 being the arrival date and May 28 being the departure date. The aim of the conference is to bring together experts working on various aspects of the topic and to present the state of art to the local mathematical community.

**Information:** <http://www.math.u-psud.fr/~pankrash/ot11/>.

25–28 **Sixth International Conference on Dynamic Systems and Applications**, Morehouse College, Atlanta, Georgia. (Dec. 2010, p. 1496)

\* 27–29 **10th Panhellenic Geometry Conference (with international participation)**, University of Patras, Conference and Cultural Center, Rion, Greece.

**Description:** Following the tradition of the previous Panhellenic Geometry Conferences, we invite researchers and postgraduate students

who work on Geometry in a wide sense (Differential geometry-applications, algebraic geometry, convex geometry, geometric analysis, algebraic topology) to participate in this conference.

**Organizers:** A. Arvanitoyeorgos, A. Cotsiolis, G. Kaimakamis, V. Pantoniou (Chairman).

**Invited Speakers:** G. Calvaruso (Lecce), H. Tamaru (Hiroshima).

**Information:** <http://www.math.upatras.gr/~geomconf11>.

27–June 3 **12th Mathematical Theory in Fluid Mechanics**, Paseky/Kacov School, Kacov, Czech Republic.

29–June 4 **Function spaces—Approximation, Inequalities and Lineability**, Paseky nad Jizerou, Czech Republic. (Jan. 2011, p. 83)

30–June 2 **Discrete Groups and Geometric Structures, with Applications IV**, This workshop will be held at Hotel Royal Astrid in Oostende, Belgium. (Jan. 2011, p. 83)

30–June 3 **International Conference on Asymptotics and Special Functions**, City University of Hong Kong, Hong Kong. (Jan. 2011, p. 83)

\* 30–June 3 **MEGA 2011: Effective Methods in Algebraic Geometry - ESF-EMS-ERCOM/IML Conference**, Stockholm University, Stockholm, Sweden.

**Description:** MEGA is the acronym for Effective Methods in Algebraic Geometry (and its equivalent in Italian, French, Spanish, German, Russian, etc.), a series of roughly biennial conferences on computational and application aspects of Algebraic Geometry and related topics with very high standards. As in previous conferences, we plan to publish selected papers from the conference in a special issue of the Journal of Symbolic Computation.

**Information:** <http://www.esf.org/conferences/11372>.

\* 30–June 4 **Short Courses and Workshop on Hilbert Spaces of Entire Functions and Spectral Theory of Self-adjoint Differential Operators**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

**Description:** Spectral complex analysis was created in the classical works by Carleman and Wiener, and then developed by Beurling, Krein, Levinson and many other prominent analysts of the 20th century. The unifying theme of these works was the complex Fourier transform, which translates various problems of harmonic analysis in the real domain into the language of complex analysis. Originally this circle of ideas and problems included sampling, interpolation and uniqueness in Paley-Wiener spaces of entire functions and related properties of exponential systems in  $L^2$ -spaces; later it expanded to the uncertainty principle, to various notions of spectrum of a function and to related questions of spectral analysis and synthesis.

**Information:** <http://www.crm.cat/wkentire>.

31–June 3 **Nonlinear Modeling and Analysis International Conference: 4th Chaotic Modeling and Simulation International Conference (CHAOS2011)**, Agios Nikolaos, Crete, Greece. (Jan. 2011, p. 83)

31–June 3 **Poster of the 4th Chaotic Modeling and Simulation International Conference (CHAOS2011)**, Agios Nikolaos, Crete, Greece.

## June 2011

\* 1–3 **5th Global Conference on Power Control and Optimization**, Dubai, United Arab Emirates

**Description:** The scope of the conference is contemporary and original research and educational development in the area of mechanical, electrical, communication engineering, sustainable energy, controllers, robotics, wireless sensors, biomedicine, computing, management, environment, continuous and hybrid optimization. Prospective authors from universities or other educational institutes and industry are invited to submit a full paper by email before the deadline. All papers will be peer reviewed by independent specialists. The conference proceedings will be published in the PCO CD. Selected papers will be published online by AIP proceeding. Some other selected papers will be submitted to Elsevier, Springer, InderScience, GJTO, T&F, PE and others for special issue journal publication. Proposals for holding special session, tutorial session, exhibition and

workshops are invited from prospective authors, industrial bodies and academicians, and should be addressed to the conference secretariat. The conference organizing committee is currently looking for financial sponsors from industry, academia, and professional bodies.  
**Speakers:** Dobrica Milovanovic (Serbia), Sergej Čelikovský (Czech Republic), Klaus-Dieter (Germany), Felix Blyakhman (Russia), Rana Abdul Jabbar Khan (Pakistan).

**Organizing Committee:** Professopr Nader Barsoum (Australia), Dr. P. Vasant (Malaysia), Dr. Rabi Habash (Iraq), Dr. J. F. Webb (UK).  
**Organizing Committee:** <http://www.pcoglobal.com>.  
**Information:** <http://www.pcoglobal.com>; email: [pcoglobal@gmail.com](mailto:pcoglobal@gmail.com); [icpco.20@gmail.com](mailto:icpco.20@gmail.com).

5–7 **National Conference On Nonlinear Analysis and Applications**, Department of Mathematics, H.N.B. Garhwal University, Campus Pauri, Pauri Garhwal, Uttarakhand. (Jun./Jul. 2010, p. 786)

\* 5–10 **16th Workshop on Stochastic Geometry, Stereology and Image Analysis**, Sandbjerg Estate, Soenderborg, Denmark.

**Description:** This interdisciplinary workshop will bring together scientists from integral geometry, stereology, stochastic geometry, applied probability, spatial statistics and bioimaging. An important scope of the workshop is to promote the advance of stochastic geometry. The workshop will have longer talks by invited speakers and shorter contributed talks by the participants as well as a poster session.

**Information:** <http://csgb.au.dk/events/2011/sgsia11/>.

5–12 **Symmetry and Perturbation Theory 2011**, Otranto, near Lecce, Italy. (Feb. 2011, p. 335)

6–8 **The International Conference on Numerical Analysis and Optimization (IceMATH 2011)**, Universitas Ahmad Dahlan, Yogyakarta, Indonesia. (Feb. 2011, p. 335)

6–9 **Copula Models and Dependence**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, Montréal, (Québec) H3T 1J4 Canada. (Aug. 2010, p. 905)

\* 6–10 **Conference on Structure and Classification of  $C^*$ -Algebras**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

**Description:** Classification is a central theme in mathematics. It has driven some of the most exciting developments of the 20th century, and is particularly prominent in the theory of operator algebras. The Elliott Program seeks classification of simple, separable and amenable  $C^*$ -algebras by means of  $K$ -theoretical data. Following a remarkable success in the nineties, it has enjoyed a resurgence of late, owing to the discovery by M. Rordam (and later, in a different direction, A. Toms) that  $K$ -theory alone, at least in its naive topological formulation, does not suffice for the classification of all simple separable amenable  $C^*$ -algebras. Rather than being a detracting factor, this opens up two ways forward: restrict the class of  $C^*$ -algebras considered, or enlarge the proposed invariant. Both of these courses have been pursued vigorously over the past three or four years, leading to several breakthroughs in Elliott's program.

**Information:** <http://www.crm.cat/calgebras>.

6–10 **Faces of Geometry: 3-manifolds, Groups and Singularities**, Columbia University/Barnard College, New York, New York. (Feb. 2011, p. 335)

6–10 **IMA Workshop: Large-scale Inverse Problems and Quantification of Uncertainty**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Apr. 2010, p. 552)

6–10 **Low-dimensional manifolds and high-dimensional categories**, UC Berkeley, Berkeley, California. (Dec. 2010, p. 1496)

6–10 **Toric geometry and applications**, Catholic University of Leuven, Leuven (Heverlee), Belgium. (Feb. 2011, p. 335)

\* 7–9 **4th International Workshop on Symbolic-Numeric Computation (SNC 2011)**, San Jose, California.

**Description:** Algorithms that combine techniques from symbolic and numeric computation have been of increasing importance and interest over the past decade. The necessity to work reliably with imprecise and noisy data, and for speed and accuracy within algebraic and hybrid-numerical problems, has encouraged a new synergy between the numerical and symbolic computing fields. Novel and exciting problems from industrial, mathematical and computational domains are now being explored and solved.

**Goal:** The goal of the present workshop is to support the interaction and integration of symbolic and numeric computing. Earlier meetings in this series include the SNAP 96 Workshop, held in Sophia Antipolis, France, the SNC 2005 meeting, held in Xi'an, China, SNC 2007 which was held in London, Canada, and SNC 2009, held in Kyoto, Japan. The 4th International Workshops on Symbolic-Numeric Computation will be held on June 7-9 at San Jose, California, as a member of the ACM Federated Computing Research Conference (FCRC).  
**Information:** <http://www.cargo.wlu.ca/SNC2011/>.

7–10 **9th International Conference on Applied Cryptography and Network Security (ACNS 2011)**, Nerja, Malaga, Spain. (Feb. 2011, p. 335)

8–11 **2011 International Symposium on Symbolic and Algebraic Computation (ISSAC 2011)**, San Jose Convention Center, 150 West San Carlos St., San Jose, California. (Jan. 2011, p. 84)

12–17 **Geometric and nonlinear analysis, meeting in Lorraine**, Université Henri Poincar'e, Nancy, France. (Jan. 2011, p. 84)

12–18 **International Conference on Waves and Stability in Continuous Media WASCOM XVI**, Brindisi, Italy. (Feb. 2011, p. 335)

13–16 **2011 International Conference on Applied Mathematics and Interdisciplinary Research**, Nankai University, Tianjin, China. (Sept. 2010, p. 1166)

13–16 **FPP6: Foundations of Probability and Physics-6**, Linnaeus University, Vaxjo, Sweden. (Jan. 2011, p. 84)

13–17 **AIM Workshop: The Cohen-Lenstra heuristics for Class Groups**, American Institute of Mathematics, Palo Alto, California. (Nov. 2010, p. 1349)

\* 13–17 **Formal Power Series and Algebraic Combinatorics (conference)**, Reykjavik, Iceland.

**Description:** The conference will feature invited lectures, contributed presentations, poster session, and software demonstrations. There will be no parallel sessions. Topics include all aspects of combinatorics and their relations with other parts of mathematics, physics, computer science, and biology. The official languages of the conference are English and French.

**Information:** <http://combinatorics.is>.

13–19 **Strobl2011 - From Abstract to Computational Harmonic Analysis**, Bifeb, Strobl, Salzburg, Austria. (Nov. 2010, p. 1349)

14–17 **2011 World Conference on Natural Resource Modeling**, Ottawa, Canada. (Sept. 2010, p. 1035)

15–17 **2011 Usenix Annual Technical Conference (USENIX ATC '11)**, Portland Marriott, Downtown Waterfront, 1401 SW Naito Parkway, Portland, Oregon. (Feb. 2011, p. 335)

16–18 **Lorentz Geometry in Mathematics and in Physics**, Institut de Recherche Mathématique Avancée, University of Strasbourg, France. (Dec. 2010, p. 1496)

17–23 **The International Conference "Painleve Equations and related topics"**, Euler Institute, Saint Petersburg, Russia. (Feb. 2011, p. 335)

19–25 **49th International Symposium on Functional Equations**, Graz, Austria. (Dec. 2010, p. 1496)

- \* 20–24 **AIM Workshop: Careers in academia**, American Institute of Mathematics, Palo Alto, California.  
**Description:** This workshop, sponsored by AIM and the NSF, will focus on preparing participants to start and maintain a successful career as a mathematician at a college or university. Applicants should have received a Ph.D. in 2010 or earlier and currently hold a postdoctoral appointment which will end in 2012 or 2013.  
**Information:** <http://www.aimath.org/ARCC/workshops/jobskills2.html>.
- \* 20–24 **Journées de Probabilités 2011**, Institut Elie Cartan Nancy, Nancy, France.  
**Information:** <http://jp2011.iecn.u-nancy.fr/>.
- \* 20–24 **NSF-CBMS Conference on Radial Basis Functions: Mathematical Developments and Applications**, University of Massachusetts Dartmouth, Dartmouth, Massachusetts.  
**Description:** The mission of our RBF conference is to educate and motivate researchers (at all levels) and students in RBF methods, and to stimulate and inspire research in this field.  
**Talks:** The conference will feature ten talks by two leading researchers in this field, Bengt Fornberg at the Applied Mathematics Department of the University of Colorado at Boulder and Natasha Flyer at the Institute for Mathematics Applied to Geosciences of National Center for Atmospheric Research (NCAR). The talks will be designed to appeal to both experts and novices, and to stimulate discussion and collaboration between the speakers and attendees about recent advances and open problems in RBF. This conference will provide an environment to communicate the latest research and development of RBF methods in recent years, and will attract a wider and more diverse group of researchers to undertake research in RBF methods and build a supportive community of RBF researchers.  
**Information:** <http://www.umassdcomputing.org/conference/rbfcbms2011/index.html>.
- 20–24 **Permutation Patterns 2011**, California Polytechnic State University, San Luis Obispo, California. (Jan. 2011, p. 84)
- 20–25 **3rd Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences**, Resort of Albena, Bulgaria. (Jan. 2011, p. 84)
- \* 20–July 1 **IMA New Directions Short Course: Invariant Objects in Dynamical Systems and their Applications**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota.  
**Description:** The IMA will offer an intensive short course on modern mathematical tools for study of dynamical systems and their applications. The course is designed for researchers in the mathematical sciences and related disciplines.  
**Lecturers:** The main lecturers for the course are Peter Bates, Department of Mathematics, Michigan State University, and Rafael de la Llave, Department of Mathematics, University of Texas at Austin. Additional short introduction to computational methods will be provided by Alex Haro Provinciale, Departament de Matemàtica Aplicada i Anàlisi, Universitat de Barcelona, Spain, and Gemma Huguet, Centre de Recerca Matemàtica, Universitat Politècnica de Catalunya, Spain. Other guest lecturers include Martin Lo, Jet Propulsion Lab, and Stephen Schecter, Department of Mathematics, North Carolina State University.  
**Information:** <http://www.ima.umn.edu/2010-2011/ND6.20-7.1.11/>.
- 20–July 1 (NEW DATE) **Polyhedral Geometry and Algebraic Combinatorics**, University of Wyoming, Laramie, Wyoming. (Jan. 2011, p. 84)
- \* 20–July 2 **School on D-modules and applications in Singularity Theory**, Mathematical Research Institute, University of Sevilla, Spain (first week); Mathematical Sciences Institute, CSIC, Madrid, Spain (second week).  
**Description:** There will be a summer school on D-modules and applications in singularity theory organized by the Mathematical Research Institute of the University of Sevilla (IMUS) and the Mathematical Sciences Institute of CSIC (ICMAT, Madrid). It will take place at Sevilla on June 20–25, 2011 and at Madrid on June 27 to July 2, 2011. The School is addressed to Ph.D. students and young post-doc researchers working on algebraic geometry, singularity theory and related areas. The first week will be devoted to the general theory of D-modules, from the basic definitions to the Riemann-Hilbert correspondence. The second week will be centered on the interactions of D-module theory with Hodge theory and with applications to singularity theory.  
**Lecturers:** F. J. Castro-Jiménez (Sevilla), E. Cattani (Amherst), M. Granger (Angers), Ph. Maisonobe (Nice), Z. Mebkhout (Paris), L. Narváez Macarro (Sevilla), C. Sabbah (Paris), C. Sevenheck (Mannheim).  
**Information:** <http://www.imus.us.es/ACT/dmod2011/>.
- \* 20–July 8 **RTG Summer School on Inverse Problems & Partial Differential Equations**, Seattle, Washington.  
**Description:** The Research Training Group in the Department of Mathematics at the University of Washington will host a summer school for advanced undergraduates and beginning graduate students on Inverse Problems & Partial Differential Equations. Students will attend lectures in the morning and problem sessions in small groups with mentors in the afternoon. Two mini-courses will be given: Gunther Uhlmann, Guillaume Bal, Steve McDowell: Inverse Transport and the X-Ray Transform; Randall LeVeque, Donna Calhoun: Finite Volume Methods and the Clawpack Software: <http://www.math.washington.edu/ipde/summer>.  
**Accommodations:** On-campus accommodations and meals will be provided, plus a travel allowance of up to \$500. Apply online by: April 1. (The Summer School is supported by an NSF Research Training Grant. Support is restricted to U.S. citizens/permanent residents. Applications from international students may be considered, but international students must provide their own support for travel, accommodation, and meals.)  
**Information:** <http://www.math.washington.edu/ipde/summer/>.
- 22–24 **3rd IMA International Conference Mathematics in Sport**, The Lowry, Salford Quays, United Kingdom. (Sept. 2010, p. 1035)
- \* 26–July 2 **New developments in noncommutative algebra and its applications**, Sabhal Mòr Ostaig, a Gaelic college in Sleat, Isle of Skye, Scotland.  
**Description:** A meeting honoring the 60th birthdays of Ken Brown and Toby Stafford. The meeting will focus on noncommutative algebra in its broadest sense, and will emphasize the most recent developments within the field as well as its most exciting interactions with other topics of mathematics including symplectic geometry, noncommutative geometry and representation theory.  
**Information:** <http://www.icms.org.uk/workshop.php?id=163>.
- \* 26–July 2 **XXX Workshop on Geometric Methods in Physics**, Białowieża, Poland.  
**Description:** Workshop on Geometric Methods in Physics is the annual meeting in the field of mathematical physics which offers a good opportunity for exchange of ideas between physicists and mathematicians. The programme consists of invited plenary lectures, as well as contributed talks, which are also open for graduate students. During the Workshop three special sessions will be organized. These sessions will be dedicated to outstanding mathematical physicists whose areas of scientific interest were always in center of the Białowieża Workshops.  
**Topics:** The topics of 2011 Workshop will include among others: Quantization and supersymmetry (Berezin Memorial Session), foundations of quantum mechanics (Session devoted to B. Mielnik), operator algebras and quantum groups (Session devoted to S. L. Woronowicz), infinite dimensional Lie groups and Lie algebras, integrable systems, noncommutative geometry, Poisson and symplectic geometry.  
**Information:** <http://wgmp.uwb.edu.pl>.

27–July 8 **Metric Measure Spaces: Geometric and Analytic Aspects**, Université de Montréal, Pavillon André-Aisenstadt, Montréal, Québec, Canada. (Feb. 2011, p. 335)

\* 29–July 2 **International Conference on Applied Analysis and Algebra-ICAA2011**, Yildiz Technical University, Davutpasa Campus, Davutpasa, Istanbul, Turkey.

**Description:** The aim of this conference is to bring together mathematicians working in the new trends of applications of math in a wonderful city of the world, Istanbul. This conference marks the 100th year of the establishment of the Yildiz Technical University which is the hosting university of this conference.

**Topics:** Are but not limited to: Topics related to the applications of math: Applied mathematics and modeling analysis and its applications; applied algebra and its applications; geometry and its applications.

**Information:** <http://www.icaa1.yildiz.edu.tr>.

\* 29–July 5 **The Seventh Congress of Romanian Mathematicians**, Transilvania University, Brasov, Romania.

**Description:** This meeting is intended to resume an old tradition of holding congresses of Romanian mathematicians and it is largely open to international participation. Six such congresses were organized in Cluj (1929), Turnu Severin (1932), Bucharest (1945, 1956, and 2007), and Pitesti (2003).

**Organizers:** Section of Mathematical Sciences of the Romanian Academy, “Simion Stoilow” Institute of Mathematics of the Romanian Academy, Transilvania University of Brasov, the Faculty of Mathematics and Computer Science of the University of Bucharest, and the Romanian Mathematical Society, in partnership with the European Mathematical Society.

**Information:** <http://imar.ro/diverse/congmatro7.htm>.

30–July 2 **IDOTA—Integral and Differential Operators and their Applications**, Department of Mathematics, University of Aveiro, Aveiro, Portugal. (Feb. 2011, p. 335)

## July 2011

3–9 **22nd International Workshop on Operator Theory and Applications (IWOTA 2011)**, Universidad de Sevilla, Spain. (Dec. 2010, p. 1497)

4–8 **Conference on Several Complex Variables on the Occasion of Professor Jozef Siciak’ 80th birthday**, Jagiellonian University, Krakow, Poland. (Dec. 2010, p. 1497)

\* 4–8 **International Conference on Differential & Difference Equations and Applications: Conference in honour of Professor Ravi P. Agarwal**, Azores University, Ponta Delgada, Portugal.

**Description:** The main aim of the conference is to promote, encourage, cooperate, and bring together researchers in the fields of differential & difference equations. All areas of differential & difference equations will be represented with special emphasis on applications. It will be mathematically enriching and socially exciting event.

**Information:** <http://www.spinelas.uac.pt/AzoresConference.htm>.

4–10 **International Conference on Topology and its Applications (ICTA), 2011**, Department of Mathematics, COMSATS Institute of Information Technology (CIIT), Islamabad, Pakistan. (Oct. 2010, p. 1166)

\* 4–15 **The 2011 Gene Golub SIAM Summer School on Waves and Imaging**, University of British Columbia, Vancouver, Canada.

**Description:** Applications are encouraged for the 2011 Gene Golub SIAM Summer School, on the topic of Waves and Imaging, to take place in Vancouver on July 4–15, 2011. The summer school is for graduate students (studying toward a master’s or Ph.D.) with interests in computational mathematics.

**Deadline:** For application is February 1, 2011. The website is <http://g2s3.org/>. The event poster (<http://g2s3.org/g2s3.pdf>) looks great on notice boards.

**Information:** <http://g2s3.org>.

5–7 **The 4th Congress of the Turkic World Mathematical Society (TWMS)**, Baku, Azerbaijan. (Jan. 2011, p. 84)

5–8 **International Conference on Nonlinear Operators, Differential Equations and Applications (ICNODEA-2011)**, Babeş-Bolyai University, Cluj-Napoca, Romania. (Dec. 2010, p. 1497)

6–8 **The 2011 International Conference of Applied and Engineering Mathematics**, Imperial College London, London, United Kingdom. (Nov. 2010, p. 1349)

6–8 **IMA Conference on Nonlinearity and Coherent Structures**, University of Reading, United Kingdom. (Sept. 2010, p. 1035)

\* 6–16 **Graduate Summer School: Probabilistic Models of Cognition**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

**Description:** This summer school is motivated by recent advances which offer the promise of building rigorous models for human cognition by applying the mathematical and computational tools developed for designing artificial systems. In turn, the complexity of human cognitive abilities offers challenges which test current theories and drive the development of more advanced tools. The goal is to develop a common mathematical framework for all aspects of cognition, and review how it explains empirical phenomena in the major areas of cognitive science—including vision, memory, reasoning, learning, planning, and language. More information and an application are available online. Applications are due by March 1, 2011.

**Information:** <http://www.ipam.ucla.edu/programs/gss2011/>.

10–16 **International Conference on Rings and Algebras in Honor of Professor Pjek-Hwee Lee**, National Taiwan University, Taipei, Taiwan. (Sept. 2010, p. 1035)

\* 11–15 **Exploratory Workshop on Emerging Infectious Diseases and Mathematical Modelling**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

**Description:** Dedicated to Michel Langlais. Mathematical modeling can help in the context of emerging infectious diseases to understand the dynamical properties of emerging diseases. These questions are directly related to serious public health problems. There are many kind of diseases (ex. Nosocomial infection, Influenza, Malaria, West Niles Valley virus, SARS, etc.) which require some further analysis. Differential Equations have been extensively used in the context of mathematical biology, and the goal of this school is to focus on applications coming from epidemiology.

**Information:** <http://www.crm.cat/diseases>.

11–15 **The 10th International Conference on Finite Fields and their Applications**, Ghent, Belgium. (Jun./Jul. 2010, p. 786)

12–15 **The 6th SEAMS-GMU 2011 International Conference on Mathematics and Its Applications; Workshop on Financial Mathematics and Workshop on Dynamical System in Biology**, Gadjah Mada University, Yogyakarta, Indonesia. (Oct. 2010, p. 1166)

15–30 **XIV Summer Diffiety School**, Levi-Civita Institute, Santo Stefano del Sole (AV), Italy. (Dec. 2010, p. 1497)

18–22 **7th International Congress on Industrial and Applied Mathematics - ICIAM 2011**, Vancouver, BC, Canada. (Jun./Jul. 2010, p. 786)

\* 18–22 **AIM Workshop: Research experiences for undergraduate faculty**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will introduce undergraduate faculty to research opportunities in several

fields of mathematics that will equip them with the tools to mentor students in undergraduate research in mathematics.

**Information:** <http://www.aimath.org/ARCC/workshops/reuF3.html>.

18–22 **Geometry & Topology Down Under – A Conference in Honour of Hyam Rubinstein**, The University of Melbourne, Australia. (Sept. 2010, p. 1035)

19–22 **The SUMMER 9th International Conference on Computing, Communications and Control Technologies: CCCT 2011**, Orlando, Florida. (Jan. 2011, p. 84)

21–23 **The 7th IMT-GT International Conference on Mathematics, Statistics, and its Applications (ICMSA 2011)**, Bangkok, Thailand. (Feb. 2011, p. 335)

21–27 **Loops' 11**, Trest, Czech Republic. (Dec. 2010, p. 1497)

25–27 **SIAM Conference on Control and Its Applications (CT11)**, Hyatt Regency Baltimore, Baltimore, Maryland. (Sept. 2010, p. 1035)

25–29 **AIM Workshop: Branching Problems for Unitary Representations**, Max Planck Institute for Mathematics, Bonn, Germany. (Nov. 2010, p. 1349)

25–29 **IMA Special Workshop: Macaulay2**, Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. (Feb. 2011, p. 336)

\* 25–29 **International Conference on Applied Mathematics, Modeling and Computational Science (Laurier Centennial Conference: AMCS-2011)**, Waterloo, Ontario, Canada.

**Description:** The conference provides a unique opportunity for in-depth technical discussions and exchange of ideas in mathematical and computational sciences, as well as their applications in natural and social sciences, engineering and technology, industry and finance. It offers to researchers, industrialists, engineers and students 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. The conference is a satellite meeting of the ICIAM-2011. Located just west of Toronto in the Canada Research Triangle area, the city of Waterloo is home to two universities, the Perimeter Institute for Theoretical Physics, Research in Motion, and many other innovative institutions.  
**Information:** <http://www.wlu.ca/amcs2011>.

\* 25–29 **International Conference on Groups and Semigroups: Interactions and Computations**, University of Lisbon, Portugal.

**Description:** The aim of this conference is to deepen the existing interactions between group theory and semigroup theory. The main themes of the conference include, not exclusively: the application of permutation group theory in the theory of transformation semigroups; computational techniques in group theory and semigroup theory; and combinatorial methods in group theory and semigroup theory.

**Organizer:** The Centro de Álgebra da Universidade de Lisboa (CAUL), the Centro Internacional de Matemática (CIM), and the Departamento de Matemática da Faculdade de Ciências da Universidade de Lisboa (DM-FCUL).

**Information:** <http://caul.cii.fc.ul.pt/GSConf2011>.

25–29 **Non-Associative Algebras and Related Topics**, Department of Mathematics, University of Coimbra, Coimbra, Portugal. (Feb. 2011, p. 336)

26–29 **Conference in Harmonic Analysis and Partial Differential Equations in honour of Eric Sawyer**, Fields Institute, Toronto, Canada. (Jun./Jul. 2010, p. 786)

28–30 **International Conference on Special Functions & their Applications (ICSFA 2011)**, Department of Mathematics & Statistics, J. N. Vyas University, Jodhpur (Rajasthan) 342 005, India. (Jan. 2011, p. 84)

## August 2011

1–5 **Categories, Geometry and Physics**, Santa Marta, Colombia. (Jun./Jul. 2010, p. 786)

1–5 **Conference in Honour of Søren Asmussen—New Frontiers in Applied Probability**, Sandbjerg Estate, Sønderborg, Denmark. (Jun./Jul. 2010, p. 786)

\* 1–5 **Equadiff 2011**, Loughborough University, Leicestershire, United Kingdom.

**Description:** The Equadiff is a series of biannual European conferences on theoretical aspects of differential equations held in rotation in Eastern and Western Europe. Recent locations in the Western series include Berlin (1999), Hasselt (2003) and Vienna (2007), all of which attracted in excess of 400 participants. We are very pleased to announce that the next Western series Equadiff will be held at Loughborough University in the heart of England from August 1–5, 2011. It will be the first time that the meeting has taken place in the United Kingdom. The conference will be organised around fifteen plenary lectures, twenty-five minisymposia and additional sessions for contributed papers. A number of special events will also be organised.  
**Information:** <http://www.lboro.ac.uk/equadiff>.

8–13 **Formal and analytic solutions of differential and difference equations**, Mathematical Research and Conference Center in Bedlewo, Poland. (Sept. 2010, p. 1036)

8–13 **Toposym 2011: 11th Prague Topological symposium**, Prague, Czech Republic. (Jan. 2011, p. 85)

10–12 **USENIX Security 2011: 20th USENIX Security Symposium**, The Westin St. Francis, 335 Powell Street, San Francisco, California. (Feb. 2011, p. 336)

14–20 **Special Functions and Orthogonal Polynomials of Lie Groups and their Applications**, Czech Technical University in Prague, Děčín, Czech Republic. (Feb. 2011, p. 336)

15–19 **AIM Workshop: Graph and Hypergraph Limits**, American Institute of Mathematics, Palo Alto, California. (Sept. 2010, p. 1036)

17–20 **2011 Shanghai International Conference on Social Sciences (SICSS 2011)**, Shanghai, China. (Feb. 2011, p. 335)

22–24 **The 3rd International Conference on Control and Optimization with Industrial Applications: COIA 2011**, Bilkent University, Ankara, Turkey. (Jan. 2011, p. 85)

22–27 **10th International Symposium on Generalized Convexity and Monotonicity (GCM10)**, Babes-Bolyai University, Cluj-Napoca, Romania. (Jan. 2011, p. 85)

\* 29–31 **14th International Conference on Computer Analysis of Images and Patterns (CAIP 2011)**, Escuela Técnica Superior de Ingeniería Informática, University of Seville, Seville, Spain.

**Description:** CAIP2011 is the fourteenth in the CAIP series of biennial international conferences devoted to all aspects of computer vision, image analysis and processing, pattern recognition and related fields. The scope of CAIP'11 includes, but not limited to, the following areas: 3D Vision; 3D TV; biometrics; color and texture; document analysis; graph-based methods; image and video indexing and database retrieval; image and video processing; image-based modeling; kernel methods; medical imaging; mobile multimedia; model-based vision approaches; motion analysis; non-photorealistic animation and modeling; object recognition; performance evaluation; segmentation and grouping; shape representation and analysis; structural pattern recognition; tracking; applications.  
**Information:** <http://congreso.us.es/caip2011/>.

29–September 2 **11th International Workshop on Orthogonal Polynomials, Special Functions, and Applications**, Universidad Carlos III de Madrid, c/Universidad, 30 28911 Leganes, Madrid, Spain. (Nov. 2010, p. 1349)

29–September 2 **European Conference on Combinatorics, Graph Theory and Applications 2011**, Alfred Renyi, Institute of Mathematics, Budapest, Hungary. (Jan. 2011, p. 85)

**September 2011**

\* 1–3 **Algebraic Representation Theory Conference**, Uppsala University, Uppsala, Sweden.

**Invited speakers:** Henning Haahr Andersen (Århus); Igor Burban (Bonn); Maud De Visscher (London); Bernhard 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/>.

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)

10–11 **AMS Eastern Section Meeting**, Cornell University, Ithaca, New York. (Sept. 2010, p. 1036)

\* 10–17 **International Conference “Harmonic Analysis and Approximations, V”**, Tsaghkadzor, Armenia.

**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>.

11–17 (NEW DATE) **Turning Dreams into Reality: Transformations and Paradigm Shifts in Mathematics Education**, Rhodes University, Grahamstown, South Africa. (Feb. 2010, p. 307)

12–16 **8th International Conference on Combinatorics on Words, WORDS 2011**, Czech Technical University in Prague, Prague, Czech Republic. (Dec. 2010, p. 1498)

12–16 **25th IFIP TC 7 Conference on System Modeling and Optimization**, University of Technology, Berlin, Germany. (Nov. 2010, p. 1349)

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)

12–16 **Mathematical and Computational Approaches in High-Throughput Genomics**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. (Sept. 2010, p. 1036)

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)

19–23 **The Sixteenth Asian Technology Conference in Mathematics (ATCM 2011)**, Abant izzet Baysal University, Bolu, Turkey. (Dec. 2010, p. 1498)

19–25 **ICNAAM2011 Symposium: Semigroups of Linear Operators and Applications**, G-Hotels, Halkidiki, Greece. (Feb. 2011, p. 336)

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

**October 2011**

\* 3 **Philosophy of Information**, American University, Washington, District of Columbia.

**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>.

\* 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.

**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](mailto:sc2011@bugs.unica.it). The web site of the event is <http://bugs.unica.it/SC2011/>.

**Information:** <http://bugs.unica.it/SC2011/>.

14–16 **AMS Central Section Meeting**, University of Nebraska-Lincoln, Lincoln, Nebraska. (Sept. 2010, p. 1036)

22–23 **AMS Western Section Meeting**, University of Utah, Salt Lake City, Utah. (Sept. 2010, p. 1036)

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)

**November 2011**

\* 1–5 **International conference of Settat on Operator algebras and applications**, Faculty of Sciences and Techniques, University Hassan I. Settat, Morocco.

**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>.

\* 12 **Information Theory and Shrinkage Estimation**, American University, Washington, District of Columbia.

**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)

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

### December 2011

\* 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.

**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/](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.

**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)

\* 14-16 **5th Indian International Conference on Artificial Intelligence**, Tumkur (near Bangalore), India.

**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/>.

16-18 **The International Congress on Science and Technology**, Allahabad, U.P., INDIA (Oct. 2009, p. 1148)

### February 2012

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.

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

### March 2012

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

**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/>.

\* 30-31 **Information and Econometrics of Networks**, American University, Washington, District of Columbia.

**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>.