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# Mathematics Calendar

## August 2010

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\* 9–13 **Topics in Spectral and Scattering Theory**, The Pennsylvania State University, State College, Pennsylvania.

**Description:** This conference is part of the first Penn State – Göttingen International Summer School in Mathematics. In addition to standard conference talks on diverse aspects of spectral and scattering theory, there will be 3–4 minicourses geared towards students and a session on open problems in the field. The Summer School is funded by the National Science Foundation under grant number DMS-0963728.

**Information:** <http://math.aa.psu.edu/~summerschool/conference.html>.

\* 9–17 **ICM 2010: Satellite Conference International Workshop on Harmonic and Quasiconformal Mappings (HQM2010)**, Indian Institute of Technology Madras, Chennai -600036, Tamilnadu, India.

**Description:** This program is divided into two parts, the workshop (Aug. 9–17, 2010) and the conference (Aug. 16–17, 2010). The workshop features short courses on  $p$ -harmonic mappings. The subsequent lectures will focus on the related area of planar harmonic morphisms and quasiconformal mappings.

**Topics:** List of topics to be covered includes:  $p$ -harmonic functions and mappings in plane and space, Quasiconformal and quasiregular mappings, Hyperbolic type geometry and geometric function theory, Analysis and function theory in metric measure spaces. The

conference topics include the theory of univalent functions and modern topics in geometric function theory.

**Information:** <http://mat.iitm.ac.in/HQM2010/>.

\* 23–27 **The Sapporo Symposium on Partial Differential Equations**, Department of Mathematics, Hokkaido University, Sapporo, Japan.

**Description:** The Sapporo Symposium on Partial Differential Equations has been held annually to present the latest developments on PDE with a broad spectrum of interests not limited to the methods of a particular school.

**Invited speakers:** Nakao Hayashi (Osaka University), Yasuhito Miyamoto (Tokyo Institute of Technology), Koji Ohkitani (The University of Sheffield), Gustavo Ponce (University of California, Santa Barbara), Norikazu Saito (The University of Tokyo), Karel Svadlenka (Kanazawa University), Juncheng Wei (The Chinese University of Hong Kong), Sijue Wu (University of Michigan), Marcus Wunsch (Kyoto University), Kenji Yajima (Gakushuin University), Tsuyoshi Yoneda (University of Minnesota), Sijia Zhong (Kyoto University).

**Information:** [http://www.math.sci.hokudai.ac.jp/sympo/sapporo/program\\_en.html](http://www.math.sci.hokudai.ac.jp/sympo/sapporo/program_en.html).

\* 25–28 **The International Conference of Differential Geometry and Dynamical Systems (DGDS-2010, joint with BGS-6, and MENP-6 - mathematics sections)**, University Politehnica of Bucharest, Bucharest, Romania.

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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/>.

**Topics:** 1. Applications of Riemannian and Finsler-Lagrange-Hamilton structures; 2. Dynamical systems and jet space theory; 3. Multitime evolutions and optimal control problems; 4. Magnetic dynamical systems; antennas theory; 5. Mathematical models in physics and in engineering; 6. Mathematical statistics; 7. Chaos and fractals.

**Information:** Graduate students and postdocs interested in these rapidly developing fields are warmly welcome. <http://www.mathem.pub.ro>.

### September 2010

\* 4–5 **Logic and Mathematics 2010**, Mathematics Department, University of Illinois, Urbana, Illinois.

**Description:** This meeting, the fourth in a series, will focus on descriptive set theory and model theory and their connections to other parts of mathematics.

**Invited speakers:** Itai Ben Yaacov (Lyon), Pandelis Dodos (Athens), Valentin Ferenczi (Sao Paolo), Matt Foreman (UC Irvine), Vladimir Pestov (Ottawa), Tom Scanlon (UC Berkeley), Asger Törnquist (Vienna), Todor Tsankov (Paris), and Vladimir Uspenskiy (Ohio University).

**Information:** Financial support for this meeting is provided by a grant from the U.S. National Science Foundation. Modest travel awards to students and recent Ph.D.s are available; the application deadline is July 4, 2010. See the meeting website for instructions. A block of rooms has been reserved at the Illini Union, 1401 West Green Street, Urbana, Illinois 61801; telephone (217) 333-1241. Mention the word “Logic” when making a room reservation (cutoff date August 3, 2010); <http://www.math.uiuc.edu/Logic2010/>.

\* 13–15 **2nd IMA Numerical Linear Algebra and Optimisation Conference**, University of Birmingham, Birmingham, United Kingdom.

**Description:** The success of modern codes for large-scale optimisation is heavily dependent on the use of effective tools of numerical linear algebra. On the other hand, many problems in numerical linear algebra lead to linear, nonlinear or semidefinite optimisation problems. The purpose of the conference is to bring together researchers from both communities and to find and communicate points and topics of common interest. The meeting is co-sponsored by SIAM and ILAS, whose members will receive the IMA members’ registration rate.

**Information:** [http://www.ima.org.uk/Conferences/2nd\\_numerical\\_linear\\_algebra.html](http://www.ima.org.uk/Conferences/2nd_numerical_linear_algebra.html).

\* 13–18 **Meeting in Honor of Jouko Väänänen’s 60th Birthday**, University of Helsinki, Finland.

**Description:** This meeting, organized by the Helsinki Logic Group, is in honour of professor Jouko Väänänen’s sixtieth birthday. The meeting will take place at the University of Helsinki, Finland.

**Topics:** Model theory, set theory, foundations of mathematics, logic in computer science, semantics of natural language, games, generalized quantifiers, infinitary languages, and abstract logic.

**Invited speakers:** P. Aczel, J. Bagaria, J. Baldwin, Z. Chatzidakis, M. Džamonja, P. Galliani, L. Hella, W. Hodges, T. Hyttinen, M. Kesälä, O. Kuusela, P. Koepke, P. Kolaitis, J. Kontinen, R. Kossak, M. Krynicki, M. Magidor, I. Niiniluoto, P. Martin-Löf, J. Nešetřil, J. Paris, K. Segerberg, S. Todorcevic, D. Westerstahl, and B. Zilber. Tutorials given by A. Villaveces and B. Velickovic take place on September 13–15, 2010, other talks take place September 16–18.

**Information:** <http://www.helsinki.fi/~kulikov/jouko/>.

\* 21–24 **International Conference on Applications in Nonlinear Dynamics 2010**, The Fairmont Chateau, Lake Louise, Alberta, Canada.

**Description:** The meeting is a continuation to the 2007 ICAND, held in Poipu Beach, Koloa (Kauai), Hawaii, USA, and the 2005 DANOLD (Device Applications of Nonlinear Dynamics) meeting, held in Catania, Italy. These meeting brought together researchers from physics, engineering, and biology who were involved in the analysis and development of applications that incorporate and, indeed, exploit the nonlinear behavior of certain dynamical systems. ICAND’s focus is on the implementation of theoretical ideas into actual devices and systems.

However, realizing that theoretical ideas and discoveries march to the beat of their own drum, the meeting will also feature some novel theoretical ideas that have not yet made it to the drawing board, but show great promise for future development of cutting-edge technologies.

**Information:** <http://www.icand2010.org>.

\* 21–25 **Geometry and Physics in Cracow**, Kraków, Poland.

**Description:** This event will gather in Cracow researchers from either side of the interface between Geometry and Physics to discuss recent developments at the crossroads of the two subjects. The programme will feature both introductory and more specialised lectures, addressing focal areas of the ongoing Marie Curie action “Geometry in Mathematical Physics” at the Jagiellonian University: conformal geometry, Kaehler manifolds, QFT an string theory, topological solitons, general relativity, noncommutative geometry and quantum gravity.

**Information:** <http://th-www.if.uj.edu.pl/~krageomp/GPC/GeomPhysCracow.html>.

\* 27–28 **Decision Analysis and Sustainable Development**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, 5th floor, Montréal (Québec), H3T 1J4 Canada.

**Description:** The objective of the Workshop is to bring together experts from different fields to discuss recent advances in the modeling of sustainable development in its environmental-climate, social and economic facets. Contributions can be theoretical or applied for as long as they involve decision analysis tools and methods (e.g., optimization, operations research, game theory, dynamical systems, risk analysis).

**Information:** [http://www.crm.umontreal.ca/Decision10/index\\_e.php](http://www.crm.umontreal.ca/Decision10/index_e.php).

### October 2010

\* 23–24 **History and Pedagogy of Mathematics (HPM) Americas Section 2010 West Coast Meeting**, CalTech in Pasadena, California.

**Description:** A special feature of this meeting will be a visit to the Huntington Library on Saturday afternoon. This is a first call for papers to be presented at the meeting. 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. Due to time constraints, we cannot guarantee that all submissions for talks will be accepted. Priority will be given to speakers who have not spoken at recent HPM meetings. Prospective speakers should send a title and abstract, as well as their own contact information to: Dave Roberts: email: [robertsd1@aol.com](mailto:robertsd1@aol.com) by September 15, 2010. We aim to have details with regard to venue, lodging, dining, and registration fee available by the end of June and posted at the HPM website: <http://www.hpm-americas.org>.

### November 2010

\* 3–4 **The 6th IMT-GT International Conference on Mathematics, Statistics, and its Applications (ICMSA2010)**, Grand Seasons Hotel, Kuala Lumpur, Malaysia.

**Description:** Progress in the mathematical sciences within the IMT-GT (Indonesia-Malaysia-Thailand Golden Triangle) region will benefit greatly from regular meetings and interactions amongst mathematicians, statisticians and scientists in the region. The fifth IMT-GT Conference on Mathematics, Statistics and Their Applications was held in July 2009 in Bukittinggi, Indonesia. The sixth IMT-GT Conference will be organized by Universiti Tunku Abdul Rahman at the Grand Seasons Hotel, in Kuala Lumpur on November 3–4, 2010. The scientific programme will include plenary addresses, regular presentations and workshops.

**Information:** <http://research.utar.edu.my/CMS/ICMSA2010/index.html>.

\* 4-6 **PDE and Applications**, Kairouan, Tunisia.

**Description:** The second mathematical conference in Kairouan (JMK2) entitled: PDE and applications will be held in the Continental hotel from the 4th to the 6th of November 2010. It is organized by the Higher institute of Applied Mathematics and Informatics of Kairouan (ISMAI Kairouan) and supported by Tunisian Mathematical Society.

**Information:** <http://www.univ-k.rnu.tn/ar/recherche/jmk/index.php>.

\* 12-15 **Toric Geometry Seminar 2010 (Combinatorial Commutative Algebra, Optimization and Statistics)**, Residencia V Centenario. Universidad de Extremadura. Jarandilla de la Vera, Cáceres, Spain.

**Description:** The field of interest of this activity is located at the boundary between theoretical research in Algebraic Geometry and Commutative Algebra, and methodological research in typically more applied fields like Statistics, Probability, Operational research and Computational Biology.

**Speakers (tentative):** A. Bigatti (Univ. Genova), V. Blanco (Univ. Granada), C. D'Andrea (Univ. Barcelona), E. Fernández Aréizaga (Univ. P. Cataluña), J. E. Chacón Durán (Univ. Extremadura), M. C. Fernández (Univ. Sevilla), M. Morales (Inst. Fourier, Univ. Grenoble I), R. Notari (P. Milano), G. Pistone (P. Torino), E. Riccomagno (Univ. Genova), E. Saenz de Cabezón (Univ. La Rioja), M. Sombra (Univ. Barcelona), J. M. Ucha (Univ. Sevilla), H. P. Wynn (London School of Econ.).

**Organizers:** I. Ojeda (Univ. Extremadura), A. Vigneron (Univ. Cadiz).

**Scientific Committee:** A. Campillo (Univ. Valladolid), F.J. Castro (Univ. Sevilla), J. Puerto (Univ. Sevilla).

**Information:** <http://matematicas.unex.es/~ojedamc/jarandilla/>.

\* 28-December 3 **International Conference on Applied Mathematics and Informatics - ICAMI 2010**, San Andres Island, Colombia.

**Description:** The main purpose of ICAMI 2010 consists in bringing together the researchers acting in various areas of applied mathematics and the practitioners who use informatics tools in their daily work. This conference is an official event of the REALMA Network (Réseau Europa Amérique Latine en Maths Appliquées, <http://www.univ-ag.fr/aoc/realma/>). There will be plenary lectures, short communications, and poster sessions.

**Important dates:** Abstract submission: August 1, 2010; Notification of acceptance: August 31, 2010; Deadline for Early Registration: September 20, 2010.

**Contact:** [icami@univalle.edu.co](mailto:icami@univalle.edu.co).

**Information:** <http://matematicas.univalle.edu.co/icami/>.

## December 2010

\* 9-11 **International Conference on Recent Development in Mathematical Sciences and its Applications (ICRDMSA-2010)**, Calcutta Mathematical Society AE-374, Sector-I, Salt Lake Kolkata-700064, West-Bengal, India.

**Description:** The Calcutta Mathematical Society, founded in 1908, is carrying on its distinct culture and heritage for the promotion of mathematics education and research in India. As part of its avowed object the Society is organizing the ICRDMSA-2010, a three day programme consisting of invited paper presentations and contributed paper sections from diverse topics. Importance and gravity of holding the conference shall be been a "NEED" of the day. The theme of the conference shall be critical, reflexive and creative in exploring front-line on-going research activities around the globe and assess its impact in present community of mathematicians in India and abroad. The aim of the conference is to provide an ideal forum for participating scientists from India and abroad to exchange ideas and possible scientific collaboration in the recent developments in different areas of mathematics and their applications.

**Information:** <http://www.calmathsoc.org>.

## January 2011

\* 12-14 **Statistical Methods for Meteorology and Climate Change**, Centre de recherches mathématiques, Université de Montréal, Pavillon André-Aisenstadt, Montréal, (Québec) H3T 1J4 Canada.

**Description:** Climate change is already happening and represents one of the greatest environmental, social, and economic challenges facing the planet. Statistical methods and models play a key role in the study of climate change. Important advances have been made in the development and application of both frequentist and Bayesian statistical approaches.

**Aim:** The workshop aims to bring statisticians and climatologists together to talk about new statistical methodologies devoted to the study of climate change. The themes that will be addressed during the workshop include assessment of uncertainty in climate change projections, spatial patterns of climate, climate reconstruction, climate extremes, climate trend assessment, downscaling, data assimilation and stochastic weather generators.

**Information:** <http://www.crm.umontreal.ca/Stat2011/en/>; [http://www.crm.umontreal.ca/Meteo11/index\\_e.php](http://www.crm.umontreal.ca/Meteo11/index_e.php).

## February 2011

\* 7-12 **Complex Geometry—Extremal metrics: Evolution equations and stability**, CIRM, Marseille, France.

**Description:** The conference will present the new developments in the study of canonical/special metrics that can be considered as uniformisers of complex geometry (like constant scalar curvature Kahler metrics, extremal Kahler metrics, Kahler-Einstein metrics, Kahler-Ricci solitons, Sasaki-Einstein metrics, Bergman metrics, balanced metrics ...). It will also reflect the diversity of analytic methods to construct such metrics (flows, continuity methods, gluing techniques, ...) and the diversity of varieties where they live (compact and non compact Kahler manifolds, Sasaki manifolds, toric manifolds, spherical manifolds, orbifolds,...). Finally, a part of the conference will be concerned with the relationship between the existence of canonical metrics and algebraic conditions coming from Geometric Invariant Theory.

**Information:** <http://www.latp.univ-provence.fr/geom2011/index.php/welcome/week2>.

\* 14-19 **Fourth School and Workshop on Mathematical Methods in Quantum Mechanics**, Casa della Gioventù, University of Padova, Bressanone, Italy.

**Description:** The aim of the meeting is to present the state of the art in some challenging open problems in Quantum Mechanics from the point of view of Mathematical Physics. It is mainly addressed to young people interested in working on the subject. Among the topics covered: adiabatic and semiclassical methods, classical behaviour in quantum systems, effective equations for infinite particle systems, molecular quantum dynamics, non linear Schrödinger equations, quantum chaos, quantum chemistry, quantum systems with magnetic fields, quantum transport theory, scattering and spectral analysis for Schrödinger operators. Four courses will be given in a series of lectures scheduled in the morning of each day. Some invited talks will be given in the afternoon followed by short contributed talks given by participants.

**Information:** <http://www.mmqm.unimore.it>.

## March 2011

\* 16-18 **IAENG International Conference on Operations Research 2011**, Royal Garden Hotel, Kowloon, Hong Kong.

**Description:** The conference ICOR'11 is held under the International MultiConference of Engineers and Computer Scientists 2011. The IMECS 2011 is organized by the International Association of Engineers (IAENG), a non-profit international association for the engineers and the computer scientists. The IMECS conferences serve as good platforms for our members and the entire engineering community to meet with each other and to exchange ideas. The last IMECS 2010 has attracted more than one thousand participants from over

50 countries. All submitted papers will be under peer review and accepted papers will be published in the conference proceeding (ISBN: 978-988-18210-3-4).

**Information:** <http://www.iaeng.org/IMECS2011/ICOR2011.html>.

\* 21-25 **AIM Workshop: Hypergraph Turán Problem**, American Institute of Mathematics, Palo Alto, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to the study of the hypergraph Turan function  $x(n,F)$ , the maximum size of an F-free k-hypergraph on n vertices.

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

#### April 2011

\* 7-9 **ICMCS'11 - IEEE co-sponsored Conference 2nd International Conference on Multimedia Computing and Systems**, Ouarzazate, Morocco.

**Description:** ICMCS'11 is organized with the objective to bring together researchers, developers, and practitioners from academia and industry sectors working in all facets of multimedia, content authoring, processor technology, and systems design.

**Information:** <http://www.icmcs11.org>.

\* 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.

**Description:** In the CSMGSB workshop, statisticians and genomics researchers will combine to discuss pressing issues in the analysis of biological data.

**Focus:** Potential areas of focus include: Computation and inference for genome-wide association studies; Statistical methods for tiling arrays; Inference for regulatory and metabolic networks; 4D imaging of live systems.

**Information:** <http://www.crm.math.ca/Stat2011/>.

\* 27-28 **Third Conference on Mathematical Sciences (CMS'2011)**, Department of Mathematics, Faculty of Science and Information Technology, Zarqa Private University, Zarqa, Jordan.

**Description:** The Third Conference on Mathematical Sciences is organized by the Department of Mathematics at Zarqa Private University and is motivated by the success of our previous two conferences. This conference provides opportunities for researchers and students to discuss related issues, exchange new ideas, and to present their latest research findings pertaining to all fields of Mathematics and Statistics.

**Scope:** Pure Mathematics, Applied Mathematics, Statistics and its Techniques.

**Information:** <http://www.zpu.edu.jo/CMS/cms.htm>.

#### May 2011

\* 2-4 **Statistical Issues in Forest Management**, Université Laval, Québec City, Canada.

**Description:** This workshop topic is embedded in a larger context of optimisation in the supply chain from the forest to the final market-ready product, a context presently being moved forward by a publicly-funded forest research network in Canada. Participants will be forestry researchers and statisticians. Two themes have been highlighted: Forest Inventory, a review of old and new techniques, and Timber Supply Modeling.

**Information:** <http://www.crm.math.ca/Stat2011/en/>;  
[http://www.crm.umontreal.ca/Forest11/index\\_e.php](http://www.crm.umontreal.ca/Forest11/index_e.php).

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

**Description:** In the Causal Inference in Health Research workshop, methodological researchers will interact with health science researchers to explore potential uses of inference techniques in this ever

developing field. Montréal, via MUHC and CHUM, is a major centre of diverse health research in Canada, and through this CRM workshop, statisticians will have the opportunity to demonstrate that they can play a vital role in study design and analysis. The workshop represents a further development in the research on causal inference in Canada, following the BIRS workshop in May 2009.

**Information:** <http://www.crm.math.ca/Stat2011/en/>.

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

**Description:** The aim of this workshop is to discuss areas requiring new methodology and supporting theory.

**Partial list of topics:** Survival and event history analysis for complex disease processes; survival analysis in genetic studies; the analysis of longitudinal studies with intermittent follow-up; multivariate survival and event history modeling; dynamic life history modeling; analysis of studies with selective sampling or observational schemes.

**Format:** A series of 4-6 invited talks per day, with substantial time left for discussion.

**Information:** <http://www.crm.math.ca/Stat2011/en/>.

#### June 2011

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

**Description:** With the wider applicability of copula models in finance, hydrology and more recently biostatistics, new challenges have emerged, which will be the focus of this workshop. The issues are briefly described below. 1- Multivariate copula models and inference for vine-copula constructions, 2- Inference for extreme-value copulas.

**Information:** <http://www.crm.math.ca/Stat2011/en/>.

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

#### September 2011

\* 12-16 **AIM Workshop:  $L^2$  invariants and their relatives for finitely generated groups**, American Institute of Mathematics, Palo Alto, California.

**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/12invfgroups.html>.