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/`.

August 2013

* 12-16 **Masterclass Pressure and Weil-Petersson metrics by Martin Bridgeman (Boston), Dick Canary (Michigan), and Andrés Sambarino (Paris-Sud 11)**, QGM, Aarhus University, Aarhus, Denmark.
Speakers: Martin Bridgeman (Boston), Dick Canary (Michigan), Andrés Sambarino (Paris-Sud 11). On their recent work with François Labourie proving that the pressure metric from statistical mechanics agrees with the complex Weil-Petersson metric on the SL(n)-representation variety. As usual with the QGM masters classes, the class will begin from first principles and then accelerate once or twice during the week.
Preliminary schedule: 10:00–10:45, Lecture; 11:15–12:00, Lecture; 12:00–2:00, Lunch; 2:00–2:45 Lecture; 3:15–4:00, Lecture. Social programme Monday August 12th at 6pm. Social networking dinner: Free of charge, Thursday August 15th at 6pm. Special dinner at a restaurant in town, free of charge but you must be signed up for this.
Information: `http://qgm.au.dk/events/show/artikel/masterclass-august-2013/`.

* 19-22 **Conference: Pressure metric and Higgs bundles**, QGM, Aarhus University, Aarhus, Denmark.
Description: Preliminary schedule 10:00–10:45, Lecture; 11:15–12:00, Lecture; 12:00–2:00, Lunch; 2:00–2:45, Lecture; 3:15–4:00, Lecture. Social programme Monday August 19th at 6pm: Social networking dinner. Free of charge. Thursday August 21 at 6pm: Special dinner at a restaurant in town. Free of charge, but you must be signed up for this.
Information: `http://qgm.au.dk/events/show/artikel/conference-august-2013/`.

September 2013

* 6-8 **National Seminar To Commemorate the Sesquicentennial Birth Anniversary of "Sir Asutosh Mookerjee" (1864-1924) (NSAM-2013)**, Calcutta Mathematical Society, Asutosh Bhavan AE-374, Sector-I, Salt Lake City, Kolkata-700064, West Bengal, India.
Description: Sir Asutosh Mookerjee was the founder president of this society. The society started its journey in the year 1908 under the able leadership of Sir Asutosh Mookerjee, popularly known as "the tiger of Bengal". He was a versatile educationist, mathematical genius and a jurist. It's our proud privilege to get the opportunity to celebrate his 150th birthday. His genius as a mathematician has not been highlighted so much so far. This seminar is planned to plumb into his mathematical works in detail along with the activities in other fields too. Those who want to present a paper in this seminar must send the title of the paper and abstract by July 15, 2013, to `cmsconf@gmail.com`.
Registration fee: INR 400 (for members), INR 600 (for non-members).
Information: Contact No.: +91-33-2337 8882; email: `cmsconf@gmail.com`; `http://www.calmathsoc.org/index.php`.

* 9-13 **Workshop & Summer School on Finite Semifields**, Università degli Studi di Padova, Padova, Italy.
Description: The theory of finite Semifields has received a great amount of attention and many interesting results and new connections to other mathematical structures have been established during the last decade. This workshop is aimed at students and researchers who take an interest in this rich theory as well as at established researchers active in this area.
Information: `http://www.combinatorics.it`.

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` or `mathcal@ams.org`.

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

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

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

* 16–20 **5th International Conference on Analytic Number Theory and Spatial Tessellations**, National Pedagogical Dragomanov University, Kyiv, Ukraine.

Description: The conference is devoted to the 145th anniversary of the eminent Ukrainian mathematician George Voronoi (1868–1908). As at all previous Kyiv conferences, the topics of this conference are related to all research areas to which Voronoi contributed: number theory, geometry of numbers, Voronoi method of summability, spatial tessellations, applications of Voronoi diagrams in natural sciences.

Information: `http://www.fmi.npu.edu.ua/voronoi2013`.

* 16–20 **LAP 2013: Logic and Applications**, Inter University Center Dubrovnik, Dubrovnik, Croatia.

Description: The conference brings together researchers from various fields of logic with applications in computer science. Topics of interest include, but are not restricted to: formal systems of classical and non-classical logic, category theory, proof theory, Lambda calculus, Pi calculus, behavioural types, systems of reasoning in the presence of incomplete, imprecise and/or contradictory information, computational complexity, interactive theorem provers. The first conference proof systems was held in Dubrovnik on June 28, 2012, co-located with the conference LICS 2012.

Information: `http://imft.ftn.uns.ac.rs/math/cms/LAP2013`.

* 16–20 **Summer School of Mathematics for Economics and Social Sciences organized by the Mathematics Research Centre "Ennio De Giorgi", partially supported by the International Doctoral Program in Economics of the Scuola Superiore Sant'Anna**, Conservatorio Di Santa Chiara, San Miniato, Italy.

Description: The School aims to improve the knowledge of mathematical methods among graduate students in economics and social sciences, with a focus on those techniques which albeit widespread in use are not properly covered in typical graduate programs. The School is an interdisciplinary venue intended to foster the interaction of people coming from the too often separated communities of mathematical and social scientists.

Topics: Information theory, chaos and ergodicity with application to data analysis.

Lecturer: Stefano Marmi, Fabrizio Lillo (Scuola Normale Superiore). Participation is subject to selection, 20–25 positions available.

Support: Financial support for board and accommodation. Online applications should be made at `http://crm.sns.it/event/276/financial.html`. All applications must include a CV that shall be sent to: `crm@crm.sns.it`. Applications without a CV will not be considered.

Deadlines: For application: August 2, 2013. Decision on the application will be communicated: August 9, 2013.

Information: `http://crm.sns.it/event/276/documents.html#title`.

* 16–20 **The 34th International Conference on Quantum Probability and Related Topics**, Steklov Mathematical Institute, Moscow, Russia.

Description: The conference continues a traditional series of yearly conferences on quantum probability and related topics. Conference topics include recent developments in quantum probability and quantum dynamics such as quantum Markov processes and semigroups, white noise calculus, quantum stochastic calculus, stochastic limit and applications to physics, quantum information theory, quantum control, Levy Laplacians and associated processes, free probability, independences, Hilbert modules, non-commutative geometry, interacting Fock spaces, infinite dimensional Lie algebras, infinite dimensional analysis, quantum field theory, quantum optics, and other related subjects.

Information: `http://qp34.mi.ras.ru`.

* 19–20 **DIMACS Workshop on Algorithmic Information Fusion and Data Mining (WAIFDM)**, DIMACS Center, CoRE Building, Rutgers University, Piscataway, New Jersey.

Description: Presented under the auspices of the Special Focus on Algorithmic Decision Theory and in partnership with the European Consortium ALGODEC. Information fusion and data mining are fundamental in the scientific discovery process of data acquisition, information integration, and knowledge discovery. Although methods for information fusion and data mining have been used for hundreds of years, it remains a challenging problem to understand when, what, and how to optimally mine data, fuse information and discover knowledge. Among others, the DIMACS Workshop on Algorithmic Information Fusion and Data Mining (WAIFDM) will address the following two types of problems: Given a complex problem in a data-rich environment, how to extract variables and how to perform variable selection and combination? Here "variable" includes feature, attribute, cue, indicator, and parameter. Given two machine learning or data mining systems A and B, when and how to best combine A and B? Given many possible decisions systems for a solution, how to best select and combine a subset of these systems?

Organizers: Frank Hsu, Fordham University, `hsu@cis.fordham.edu`; Fred Roberts, DIMACS, `froberts@dimacs.rutgers.edu`; Alexis Tsoukias, University of Paris and LAMSADE (CNRS), `tsoukias@lamsade.dauphine.fr`.

Local Arrangements: Workshop Coordinator, DIMACS Center, `workshop@dimacs.rutgers.edu`, 732-445-5928.

Information: `http://dimacs.rutgers.edu/Workshops/InformationFusion/index.html`.

* 21–22 **The 33nd Annual Southeastern-Atlantic Regional Conference on Differential Equations**, University of Tennessee, Knoxville, Tennessee.

Plenary Speakers: Lawrence Craig Evans, University of California, Berkeley; Wilfrid Gangbo, Georgia Institute of Technology; Yuriko Renardy, Virginia Polytechnic Institute and State University; and Glenn Webb, Vanderbilt University. In addition to the plenary speakers, there will be sessions of twenty minute contributed talks.

Funding: From the National Science Foundation has been requested to provide travel support for advanced graduate students and recent Ph.D. recipients. The conference also welcomes and encourages the contributions of undergraduate students. Women and minorities are especially encouraged to participate in this conference and apply for support.

Deadline: For abstracts and early registration is August 30, 2013.

Information: For more information, please contact: `swise@math.utk.edu`; `lenhart@math.utk.edu` or `phan@math.utk.edu`; `http://www.math.utk.edu/SEARCDE2013/Files/Main.html`.

* 24 **ICERM Public Lecture: On Growth and Form: Mathematics, Physics and Biology**, Salomon Hall, Brown University, Providence, Rhode Island.

Description: The diversity of living forms led Darwin to state that it is "enough to drive the sanest man mad". How can we describe this variety? How can we understand the origin and evolution of these "endless forms most beautiful?" And how do these forms link to function and physiology at the organismic level and beyond? Mathematics, and geometry in particular, provides a natural language to express these questions and answer them. Motivated by biological observations on different scales from molecules to organisms to swarms, I will show how a combination of quantitative experiments, physical analogies, mathematical theories and computational models allow us to begin to unravel the mechanistic basis for aspects of morphogenesis and thence towards physiology, pathophysiology and biomimetics.

Speaker: L. Mahadevan, Harvard University.

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Sponsor: Simons Foundation.
Information: `http://icerm.brown.edu/simonslecture`.

October 2013

* 1–5 **II International Seminar: Nonlinear Phenomenology Advances**, St. Petersburg State Polytechnical University, Saint Petersburg, Russia.
Description: There will be a discussion on some modern advances, approaches and tools for studying nonlinear problems in different fields of science (mathematics, physics, chemistry, biology, economics and others).
Scope: Nonlinear dynamical systems; spatio-temporal structures patterning in complex media, fractals; number theory and cryptography; nonlinear statistics; wavelet analysis; self-organization and cooperative phenomena; classical and quantum chaos, controlling chaos, turbulence; wave turbulence and complexity; mesoscopic and low-dimensional systems; nonlinear dynamics in chemistry, biology, economics and social sciences; soils nonlinear dynamics and evolution; neural network modeling of nonlinear systems and phenomena.
Information: `http://www.hmath.spbstu.ru/index.php/seminary`.

* 11–12 **Workshop on Mathematics of Electoral Systems: Voting, Apportioning and Districting**, Budapest, Hungary.
Description: Researchers and advanced Ph.D. students are invited to submit papers to the Workshop. Both theoretical and applied contributions are welcome.
Keynote speakers: Felix Brandt (TU München), Friedrich Pukelsheim (Universität Augsburg).
Deadline: Papers should be submitted to email: `mesvad@uni-corvinus.hu` by August 20, 2013. Authors of accepted papers will be notified by September 1, 2013.
Program committee: Clemens Puppe (Karlsruhe Institute of Technology), Attila Tasnádi (Corvinus University).
Information: `http://mes-vad.uni-corvinus.hu`.

* 23–25 **International Conference on Advanced Computing and Applications (ACOMP 2013)**, Ho Chi Minh City University of Technology (HCMUT), Ho Chi Minh City, Vietnam.
Description: ACOMP is an annual international forum for the exchange of ideas, techniques, and state-of-the-art applications in the field of advanced computing among scientists, engineers, and practitioners. For ACOMP2013, we will provide a friendly environment where researchers can discuss current and future trends in research areas such as Security and Information Systems, Software Engineering, Embedded Systems and VLSI Design, High Performance Computing, Image Processing and Visualization, Scientific Computing and other interesting topics.
Information: `http://www.cse.hcmut.edu.vn/acomp2013/`.

* 23–27 **Conference on integrable systems, random matrix theory, and combinatorics**, University of Arizona, Tucson, Arizona.
Description: The main goal of this conference is to foster interaction between researchers in integrable nonlinear partial differential equations and researchers working in random matrix theory and combinatorics. This will be accomplished by lectures in the morning, and then dividing into working groups in the afternoons. We are planning a conference with the main participants being younger researchers, with a few more senior researchers scattered in for good measure. A second aspect, and one that will be celebrated in the evenings, is the 60th birthday of Nicholas Ercolani, who is always a strong advocate for research at the boundary between diverse areas of mathematics such as these.
Information: `http://math.arizona.edu/~mcl/CombConf.htm`.

* 24–25 **International Conference on Mathematical Techniques in Engineering Applications (ICMTEA 2013)**, Graphic Era University, Dehradun, Uttarakhand, India.
Description: International Conference on Mathematical Techniques in Engineering Applications's aims at publishing refereed, original research studies and articles that bring up the latest development and research in the mathematical sciences and engineering area. The goal of the conference is to bring together leading engineers, researchers and academics from the world to discuss novel theories, technologies and applications of mathematics in major engineering fields. The conference will feature prominent plenary speakers as well as technical sessions. The conference covers a broad spectrum of topics related to mathematics applications in engineering. ICMTEA 2013 is a peer-reviewed conference, with experts from different parts of world.
Information: `http://www.geu.ac.in/graphicneprd.aspx?pgid=104&nid=489`.

* 28–31 **International Conference on Complex Analysis and Geometry In the Honor of Hassine Elmir AGC 2013**, Monastir University, Rue Salem Bchir, Al Munastir 5000, Tunisia.
Description: This conference, to be held at Monastir University, will focus on recent developments in complex analysis and geometry.
Information: `http://www.fsg.rnu.tn/AGC_2013.htm`.

* 30–November 1 **56th Annual Congress of the South African Mathematical Society**, University of KwaZulu-Natal, Pietermaritzburg, South Africa.
Description: The annual congress of the South African Mathematical Society provides a unique platform for South African mathematicians and international partners to share ideas, showcase cutting edge research in the mathematical sciences and to start new collaborations and friendships. As well as the core areas of applied and pure mathematics, we encourage significant interdisciplinary collaborations that showcase contributions that mathematics can make in all areas of science.
Information: `http://www.sams2013.ukzn.ac.za/`.

November 2013

* 4–8 **Waves in Science and Engineering**, Huatulco, Mexico.
Description: Conference Waves in Science and Engineering 2013 will be held November 4-8. It is intended to bring together experts from different fields of the general area of classical wave theory and applications including acoustic, electromagnetic, and elastic wave propagation. The mathematical and numerical modeling procedures in these fields contribute to a considerable number of applied physical and engineering problems, over a large range of length scales. Among these are problems in sonar, radar, medical imaging, detection, materials, and wave interactions with surfaces and obstacles. The conference will cover many of the current mathematical and numerical techniques that are applied across disciplines. Mathematicians, physicists, and engineers of varying backgrounds and occupations will present recent developments in wave phenomena in science and engineering.
Information: `http://www.wise.esimez.ipn.mx`.

December 2013

* 16–19 **deLeonfest 2013**, Institute for the Mathematical Sciences, ICMAT (CSIC-UAM-UC3M-UCM), Madrid, Spain.
Description: We would like to draw your attention to the workshop deLeónfest 2013. This event is to commemorate the 60th birthday of Professor Manuel de León. Manuel de León has enormously contributed in many aspects of mathematics and research, and still does. Among many of his facets we could highlight his research on symplectic geometry, Poisson manifolds, nonholonomic mechanics, geometric integrators, optimal control theory, etc, his active role in the diffusion of mathematics, in mathematical organizations at the international and national levels, in mathematics popularization, edition and direction of scientific journals.
Registration: The registration is now open. The registration fee is 100 euros for seniors and 50 euros for students. More

information about this event is available at `http://www.icmat.es/deLeonfest`. If you need any further information, please contact us at `deleonfest@icmat.es`. We hope to see you in Madrid for this tribute to Manuel de León.
Information: `http://www.icmat.es/deLeonfest/`.

January 2014

* 27–31 **AIM Workshop: Arithmetic statistics over finite fields and function fields**, American Institute of Mathematics, Palo Alto, California.
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the study of statistical questions about objects of arithmetic geometry, especially algebraic varieties over function fields and finite fields.
Information: `http://www.aimath.org/ARCC/workshops/arithstatffield.html`.

April 2014

* 10–12 **University of Arkansas Spring Lecture Series in Mathematics – "Multi-parameter Geometry and Analysis"**, University of Arkansas, Fayetteville, Arkansas.
Description: Each year, the Department of Mathematical Sciences at the University of Arkansas hosts a small conference called the Arkansas Spring Lecture Series in Mathematics. The conference focuses on a special topic selected by a principal lecturer who delivers five talks on the subject. The main speaker in 2014 will be Professor Alexander Nagel of the University of Wisconsin-Madison, and the conference topic is going to be: "Multi-parameter Geometry and Analysis". There are ten additional invited talks, and early career researchers and finishing graduate students may give contributed talks.
Information: `http://math.uark.edu/3742.php`.

May 2014

* 26–30 **8th European Conference on Elliptic and Parabolic Problems**, Hotel Serapo, Gaeta, Italy.
Description: Besides elliptic and parabolic issues, the topics of the conference include geometry, free boundary problems, fluid mechanics, evolution problems in general, calculus of variations, homogenization, control, modeling and numerical analysis. In addition to the plenary talks parallel sessions and minisymposia will be organized.
Information: `http://www.math.uzh.ch/index.php?konferenzdetails0&key1=32&L=1`.

June 2014

* 5–7 **Number Theory at Illinois: A Conference in Honor of the Batemans**, University of Illinois, Urbana, Illinois.
Description: A Number Theory Conference in memory of Paul and Felice Bateman will be held at the University of Illinois. The Batemans were long-time members of the faculty and Paul was department head for 14 years. Paul was a member of the American Mathematical Society for 71 years and among his other services, was a Trustee of the AMS. This meeting continues a long tradition of number theory conferences at Illinois.
Invited talks: There will be twenty invited talks as well as opportunities for contributed talks. These will cover a broad spectrum of number theory, representing Paul's many interests. A banquet will be held on June 6. There will be a refereed proceedings volume of conference talks. The conference will be preceded by the Midwest Number Theory Conference for Graduate Students, June 3–4, 2014 (which is being announced separately).
Information: `http://www.math.illinois.edu/nt2014`.

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.

August 2014

* 28–29 **Connections for Women: Geometric Representation Theory**, Mathematical Sciences Research Institute, Berkeley, California.
Description: Within the broad range of geometric representation theory, the Connections Workshop will focus on three research topics in which we expect particularly striking new developments within the next few years: Categorical and geometric structures in representation theory and Lie superalgebras; Geometric construction of representations via Shimura varieties and related moduli spaces; Hall algebras and representations. The workshop will bring together researchers from these different topics within geometric representation theory and will thus facilitate a successful start of the semester program. It will give junior researchers from each of these parts of geometric representation theory a broader picture of possible applications and of new developments, and will establish a closer contact between junior and senior researchers. This workshop is aimed at encouraging and increasing the active participation of women and members of under-represented groups in the MSRI program.
Information: `http://www.msri.org/workshops/706`.

November 2014

* 17–21 **Categorical Structures in Harmonic Analysis Workshop**, Mathematical Sciences Research Institute, Berkeley, California.
Description: The workshop will focus on the role of categorical structures in number theory and harmonic analysis, with an emphasis on the setting of the Langlands program. Celebrated examples of this theme range from Lusztig's character sheaves to Ngo's proof of the Fundamental Lemma. The workshop will be a forum for researchers from a diverse collection of fields to compare problems and strategies for solutions.
Information: `http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9805`.

December 2014

* 1–5 **Automorphic forms, Shimura varieties, Galois representations and L-functions**, Mathematical Sciences Research Institute, Berkeley, California.
Description: L-functions attached to Galois representations coming from algebraic geometry contain subtle arithmetic information (conjectures of Birch and Swinnerton-Dyer, Deligne, Beilinson, Bloch and Kato, Fontaine and Perrin-Riou). Langlands has predicted the existence of a correspondence relating these L-functions to L-functions of automorphic forms which are much better understood. The workshop will focus on recent developments related to Langlands correspondence (construction of Galois representations attached to automorphic forms via the cohomology of Shimura varieties, modularity of Galois representations...) and arithmetic of special values of L-functions. It will be dedicated to Michael Harris as a tribute to his enormous influence on the themes of the workshop.
Information: `http://www.msri.org/workshops/719`.