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# Mathematics Calendar

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

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

## November 2015

- \* 16–20 **New Perspectives in Differential Geometry: Special Metrics and Quaternionic Geometry**, University of Rome 1 “La Sapienza”, Rome, Italy.  
**Description:** Hosted and funded by Istituto Nazionale di Alta Matematica (INdAM), the workshop is organized on the occasion of Simon Salamon’s sixtieth birthday.  
**Scientific committee:** A. Fino (Turin), G. Gentili (Florence), E. Musso (Turin), A. Swann (Aarhus).  
**Organizers:** S. G. Chiossi (Salvador), D. Conti (Milan), C. Stoppato (INdAM), L. Vezzoni (Turin).  
**Information:** [newperspectivesindg.wordpress.com](http://newperspectivesindg.wordpress.com).
- \* 23–27 **V International Scientific Conference of Students and Young Scientists “Theoretical and Applied Aspects of Cybernetics” (TAAC-2015)**, 03680, Ukraine, Kyiv, 4d, Academician Glushko Avenue, Taras Shevchenko National University of Kyiv, Cybernetics Faculty.  
**Languages:** The official languages of conference are English, Ukrainian and Russian.  
**Scope:** Includes four streams: Computer Science, Applied Mathematics, Artificial Intelligence, Software Engineering. Scientific program of the conference also includes the following lectures: Arithmetic Operations in Lattice-based Cryptography. Assistant Professor Sedat Akleyek (Faculty of Engineering, Ondokuz Mayıs University, Samsun, Turkey). (see more details: [taac.org.ua/en/programmeLectures.htm](http://taac.org.ua/en/programmeLectures.htm)). The proceedings of the conference will be printed before the conference.  
**Information:** [taac.org.ua](http://taac.org.ua).

## December 2015

- \* 9–19 **Indo-UK Workshop on Stochastic Partial Differential Equations and Applications**, Indian Institute of Science, Bangalore, India.  
**Description:** The Plenary Speakers of this workshop are: (1) Zdzisław Brzezniak (University of York, UK) (2) David Elworthy (University of Warwick, UK) (3) Istvan Gyongy (University of Edinburgh, UK) (4) Martin Hairer (University of Warwick, UK) (5) Xue-Mei Li (University of Warwick, UK) (6) Terry Lyons (University of Oxford, UK) (7) Alexander Yu Veretennikov (University of Leeds, UK). The workshop will be divided into two parts, separated by the weekend. The first part will be devoted to a gentle introduction to the theories of Stochastic Differential Equations on Euclidean spaces, manifolds, and infinite dimensional spaces; Stochastic Partial Differential Equations, use of Banach spaces, smooth structures on non-linear function spaces, Malliavin calculus, rough paths theory (both in time and space sense). In the second week, plenary speakers will give expository lectures on the most recent results concerning their expertise.  
**Information:** [spde.iisertvm.ac.in](http://spde.iisertvm.ac.in).
- \* 11–12 **Workshop on Game Theory and Social Choice**, Corvinus University of Budapest, Budapest, Hungary.  
**Description:** Researchers and advanced PhD students are invited to submit research papers to be considered for presentation at the workshop. Theoretical and applied contributions from all areas of game theory and social choice are welcome. The keynote speakers of the workshop are Prof. Hans Peters, Maastricht University and Prof. Clemens Puppe, Karlsruhe Institute of Technology. Papers should be submitted electronically at <https://easychair.org/conferences/?conf=gamsoc2015> by October 20, 2015. Authors

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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 in the Meetings & Conferences Section 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. 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 [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 Mathematics Calendar**, as well as Meetings and Conferences of the AMS, is now available through the AMS website: [www.ams.org/](http://www.ams.org/).

of accepted papers will be notified by October 30, 2015. The two-day workshop will be held at Corvinus University, which is located close to the city center. We will start not too early on Friday, and finish on Saturday afternoon. Further information on the venue and other conference-related information will be made available in due course at [gam-soc.uni-corvinus.hu](http://gam-soc.uni-corvinus.hu). There is no registration for speakers and participants.

**Information:** [gam-soc.uni-corvinus.hu](http://gam-soc.uni-corvinus.hu).

\* 14–18 **Workshop on Geometric Aspects of the Quantum Hall Effect**, University of Cologne, Cologne, Germany.

**Description:** The goal of the Workshop is to bring together physicists and mathematicians, working in Quantum Hall and neighbouring fields.

**Information:** [www.mi.uni-koeln.de/~klevtsov/workshop.htm](http://www.mi.uni-koeln.de/~klevtsov/workshop.htm).

\* 15–17 **The 8th International Seminar on Geometry and Topology (GT8)**, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran.

**Description:** This seminar is jointly organized by Amirkabir University of Technology (Tehran Polytechnic) and Iranian Mathematical Society, supported by IPM and other Institutes and universities. This Seminar will provide attendees good opportunities to meet geometers and topologists from all over the world, on both aspects of Theory and Application, to exchange ideas, and to launch national and international collaborations on different topics in the area. The scientific program will consist of keynote lectures, short lectures, workshops, discussion panels and poster sessions. The organizing committee will provide for international participants some visa and hotel facilities and help for planning a variety of touristic events in Iran to enjoy and become familiar with warm hospitality and fascinating Iranian culture. We look forward to welcoming you and your active participation in GT8 in Tehran and wish you a very pleasurable and memorable stay in Iran.

**Information:** [conf.ims.ir/gt8/page.php?slct\\_pg\\_id=101&sid=1&slc\\_lang=en](http://conf.ims.ir/gt8/page.php?slct_pg_id=101&sid=1&slc_lang=en).

### January 2016

\* 4–29 **AMSI (Australian) Summer School**, RMIT University, Melbourne, Australia.

**Description:** The AMSI Summer School is an exciting opportunity for mathematical sciences students from around Australia and the world to come together, develop their skills, build networks, and enjoy the Australian summer.

**Courses include:** Calculus of Variations: Theory and Practice; Complex Networks; Conic Programming; Design and Analysis of Experiments; Linear Control Theory and Structured Markov Chains; Modern Numerical Methods for Diffusion Equations on Generic Grids; Projective Geometry; Stochastic Modelling.

**Information:** [ss16.amsi.org.au/](http://ss16.amsi.org.au/).

### March 2016

\* 16–18 **The 2016 IAENG International Conference on Operations Research**, Royal Garden Hotel, Hong Kong, China.

**Description:** The conference ICOR'16 is held under the International MultiConference of Engineers and Computer Scientists 2016. The IMECS 2016 is organized by the International Association of Engineers (IAENG), a non-profit international association for engineers and 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. Our IMECS committees have been formed with over three hundred conference committee members who are mainly research center heads, faculty deans, department heads, professors, and research scientists from over 30 countries. The last IAENG conference attracted more than 800 participants from over 50 countries. All submitted papers will be under peer review and accepted papers will be published in the

conference proceeding (ISBN: 978-988-19253-8-1). The abstracts will be indexed and available at major academic databases.

**Information:** [www.iaeng.org/IMECS2016/ICOR2016.html](http://www.iaeng.org/IMECS2016/ICOR2016.html).

### April 2016

\* 11–15 **International Conference on Differential Geometry, ICDG Fez, 2016**, Faculty of Sciences Dhar El Mehraz, Fez, Morocco.

**Description:** The International Conference on Differential Geometry of Fez will provide a forum and an excellent venue for researchers, academic faculty and students to present—and eventually publish—their research results and approaches. The ICDG Fez 2016 conference seeks original and high quality contributions in the fields chosen as topics for the the following three sections of this conference: 1. Riemannian and pseudo-Riemannian manifolds and Submanifolds. 2. Geometric Structures and Representation Theory. 3. Geometric properties of functions and vector fields. The proceedings of the conference will be published as a special issue in the journal *Note Di Matematica*. All articles will undergo regular peer review procedure following the same high standards as for contributions to regular issues of the journal.

**Information:** [www.fsdmfes.ac.ma/ICDGFES/](http://www.fsdmfes.ac.ma/ICDGFES/).

\* 12–15 **SIAM Conference on Parallel Processing for Scientific Computing (PP16)**, Paris, France.

**Description:** The Call for Presentations for this conference is now available.

**Submission Deadlines:** September 15, 2015 for Minisymposium Proposals; October 13, 2015 for Abstracts.

**Information:** [www.siam.org/meetings/pp16/](http://www.siam.org/meetings/pp16/).

### May 2016

\* 6–8 **Mathematics in Automotive Security**, Oakland University, Rochester, Michigan.

**Description:** As information technologies are increasingly deployed in modern vehicles, automotive cybersecurity issues have emerged. In this conference we cover some of the basic crypto-systems already in use in the automotive industry and their limitations, including threats posed by denial-of-service (DoS) attacks and external connectivity vulnerabilities. The conference will bring together engineers, computer scientists, and mathematicians who work in the automotive industry. Both advanced undergraduates and graduate students are welcome.

**Information:** [sites.google.com/site/michigancag/mathematics-in-automotive-security](http://sites.google.com/site/michigancag/mathematics-in-automotive-security).

\* 23–26 **SIAM Conference on Imaging Science (IS16)**, Hotel Albuquerque at Old Town, Albuquerque, New Mexico.

**Description:** The interdisciplinary field of imaging science is experiencing tremendous growth. New devices capable of imaging objects and structures from nanoscale to the astronomical scale are continuously being developed and improved and, as a result, the reach of science and medicine has been extended in exciting and unexpected ways. The impact of this technology has been to generate new challenges associated with the problems of formation, acquisition, compression, transmission, and analysis of images. By their very nature, these challenges cut across the disciplines of physics, engineering, mathematics, biology, medicine, and statistics. While the primary purpose of this conference is to focus on mathematical issues, the other facets of imaging, such as biomedical and engineering aspects, for example, will also play an important role.

**Information:** [www.siam.org/meetings/is16/](http://www.siam.org/meetings/is16/).

\* 26–29 **International Conference on Applications of Mathematics to Nonlinear Sciences (AMNS-2016)**, Kathmandu, Nepal.

**Description:** The Association of Nepalese Mathematicians in America (ANMA), Nepal Mathematical Society (NMS), and the mathematics departments of Tribhuvan University and Kathmandu University are jointly organizing the International Conference on Applications

of Mathematics to Nonlinear Sciences (AMNS-2016) in Kathmandu, Nepal, on May 26-29, 2016. The conference provides a forum to a diverse group of scientists in applications of mathematics to natural and health sciences, engineering and finance. Specific areas include analysis, topology, mathematics education, statistics, big data, optimization, operations research, quantitative finance, mathematical biology, biomedical science, biophysics, and public health. The conference intends to bring together researchers from a variety of disciplines of mathematical sciences and applications.

**Information:** [anmaweb.org/AMNS-2016/](http://anmaweb.org/AMNS-2016/).

## June 2016

- \* 22-27 **8th Conference of Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences (AMiTaNS'16)**, Congress Centre, Black-Sea Resort of Albena, Bulgaria.

**Description:** The conference will be scheduled in plenary and keynote lectures followed by special and contributed sessions. The accents of the conference will be on Mathematical Physics, Solitons and Transport Processes, Numerical Methods, Scientific Computing, Continuum Mechanics, Applied Analysis, Applied Physics, Biomathematics, which can be complemented by some specific topics in contributed special sessions. You are welcome to announce and organize special sessions that are within the general topic of the conference.

**Information:** [2016.eac4amitans.eu](http://2016.eac4amitans.eu).

## July 2016

- \* 6-8 **IMA Conference on Turbulence, Waves, and Mixing**, King's College, Cambridge, United Kingdom.

**Description:** In Honour of Lord Julian Hunt's 75th Birthday: The theme of this conference is to discuss, with review lectures and contributed papers, the ongoing developments of research in turbulence, waves, and mixing, and their applications in industry, environment, and geo/astro and mathematical physics.

**Information:** [www.ima.org.uk/conferences/conferences\\_calendar/turbulencewavesmixing.html](http://www.ima.org.uk/conferences/conferences_calendar/turbulencewavesmixing.html).

- \* 12-14 **9th IMA International Conference on Modelling in Industrial Maintenance and Reliability (MIMAR)**, Imperial College, London, United Kingdom.

**Description:** This event is the premier maintenance and reliability modelling conference in the UK and builds upon a very successful series of previous conferences. It is an excellent international forum for disseminating information on state-of-the-art research, theories and practices in maintenance and reliability modelling, and offers a platform for connecting researchers and practitioners from around the world.

**Organizing committee:** Philip Scarf, Chair (University of Salford, UK) Phuc Do, Co-Chair (University of Lorraine, France) Shaomin Wu, Co-Chair (University of Kent, UK).

**Information:** [www.ima.org.uk/conferences/conferences\\_calendar/mimar9.html](http://www.ima.org.uk/conferences/conferences_calendar/mimar9.html).

## September 2016

- \* 8-13 **4th Dolomites Workshop on Constructive Approximation and Applications (DWCAA16)**, Univ. of Verona, Val di Fassa, Trento, Italy.

**Description:** DWCAA16 is organized by the Department of Mathematics of the University of Padua and the Department of Computer Science of the University of Verona. It aims to provide a meeting point and a forum for researchers in approximation theory and its applications.

**Keynote Speakers:** Costanza Conti (Florence), Armin Iske (Hamburg), Elisabeth Larsson (Uppsala), Norm Levenberg (Bloomington), Gerlind Plonka (Goettingen), Grady Wright (Boise).

**Sessions:** Approximation theory in imaging science, Meshless methods, Multivariate polynomial approximation and pluripotential

theory, Numerical integration, integral equations and transforms, Sparse approximation.

**Deadline:** For submission of abstracts is April 30, 2016.

**Information:** [events.math.unipd.it/dwcaa16/](http://events.math.unipd.it/dwcaa16/).

- \* 12-16 **Workshop: Unusual Configuration Spaces**, ICERM at Brown University, Providence, Rhode Island.

**Description:** This workshop will bring together researchers interested in a panoply of unusual configuration spaces, arising in applied fields or in plausible models, to look for similarities or creative tensions between them.

**Information:** [icerm.brown.edu/programs/sp-f16/w1/](http://icerm.brown.edu/programs/sp-f16/w1/).

- \* 26-30 **AIM Workshop: Amenability of Discrete Groups**, American Institute of Mathematics, San Jose, California.

**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to the structural theory of discrete amenable groups, and new examples of amenable and non-amenable groups.

**Information:**

[aimath.org/workshops/upcoming/amenablediscrete/](http://aimath.org/workshops/upcoming/amenablediscrete/).

- \* 27-30 **Groups Acting on CAT(0) Spaces**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** The theme of the workshop is algebraic, geometric and analytical aspects of groups that act by isometries on spaces of non-positive curvature known as CAT(0) spaces. The world of CAT(0) spaces includes classical spaces such as symmetric spaces and buildings, as well as more avant-garde arrivals, such as CAT(0) cube complex. The workshop will bring together researchers studying various aspects of such groups and spaces to discuss recent developments and chart new directions in the field.

**Information:** [www.msri.org/workshops/772](http://www.msri.org/workshops/772).

## October 2016

- \* 8-11 **Mathematical Results in Quantum Physics (QMATH13)**, Georgia Institute of Technology, Atlanta, Georgia.

**Description:** This is the thirteenth in the QMATH series of international conferences on the mathematics of quantum mechanics, and the first one to be held in the US. It will focus on rigorous results in several areas of physics: Quantum mechanics with random features; Quantum mechanics on graphs and similar structures; Many-body systems and statistical mechanics; Quantum information; and New mathematical topics arising in current theoretical physics.

**Information:** [qmath13.gatech.edu/](http://qmath13.gatech.edu/).

- \* 17-21 **Workshop: Stochastic Topology and Thermodynamic Limits**, ICERM at Brown University, Providence, Rhode Island.

**Description:** This workshop will explore topological properties of random and quasi-random phenomena in physical systems, stochastic simulations/processes, as well as optimization algorithms. Practitioners in these fields have written a great deal of simulation code to help understand the configurations and scaling limits of both the physically observed and computational phenomena. However, mathematically rigorous theories to support the simulation results and to explain their limiting behavior are still in their infancy.

**Information:** [icerm.brown.edu/programs/sp-f16/w2/](http://icerm.brown.edu/programs/sp-f16/w2/).

- \* 25-28 **Geometry of Mapping Class Groups and Out(F<sub>n</sub>)**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** A four-day workshop with research-level talks on the latest advances in the geometry of mapping class groups and Out(F<sub>n</sub>), and spaces on which they act.

**Information:** [www.msri.org/workshops/771](http://www.msri.org/workshops/771).

- \* 26-28 **The 4th International Conference on Complex Dynamical Systems in Life Sciences: Modeling and Analysis (4thICCDs'2016)**, Ibnou Zohr University, Agadir, Morocco.

**Description:** The 4thICCDs'2016 is jointly organized by Ibn-Zohr University (Morocco), Le Havre University (France), Tobb University (Turkey), and United Arab Emirates University (United Arab

Emirates). The 4th ICCDS'2016 Conference will maintain the diversity and breadth of topics that have traditionally characterized the three successful conferences previously held in Turkey, namely: KDS2012 (Ankara, October 2012), KDS2013 (Istanbul, October 2013), and CDSS2014 (Ankara, November 2014).

**Information:** [www.cosylis.org/iccdds2016/](http://www.cosylis.org/iccdds2016/).

**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.**

### November 2016

- \* 28–December 2 **Workshop: Topology and Geometry in a Discrete Setting**, ICERM at Brown University, Providence, Rhode Island.

**Description:** This workshop focuses on building bridges by developing a unified point of view and by emphasizing cross-fertilization of ideas and techniques from geometry, topology, and combinatorics. New experimental evidence is crucial to this goal. The workshop emphasizes the computational and algorithmic aspects of the problems in topics including: Concentration of maps and isoperimetry of waists in discrete setting, configuration Space/Test Map scheme and theorems of Tverberg type, Equipartitions of measures, social choice, van Kampen-Haefliger-Weber theory for maps of simplicial complexes, combinatorics of homotopy colimits, and discrete Morse theory.

**Information:** [icerm.brown.edu/programs/sp-f16/w3/](http://icerm.brown.edu/programs/sp-f16/w3/).

### December 2016

- \* 6–9 **Amenability, Coarse Embeddability and Fixed Point Properties**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** The main theme of the workshop is the spectrum of analytic properties running from Kazhdan's property (T) at one end to von Neumann's amenability at the other, which forms a foundational organizing structure for infinite groups and spaces. These properties can be described both analytically, via unitary representation theory, and geometrically, using embedding properties for discrete spaces. Connections with probability and combinatorics will likewise be addressed during the meeting.

**Information:** [www.msri.org/workshops/770](http://www.msri.org/workshops/770).

### January 2017

- \* 30–May 5 **Semester Program: Singularities and Waves In Incompressible Fluids**, ICERM at Brown University, Providence, Rhode Island.

**Topics:** Of particular interest include: singularity formation, stability and bifurcation; the modeling and analysis of simplified phenomenological models for the description of coherent structures; and time-dependent and steady-free boundary problems including water waves, vortex sheets, capillary problems with contact lines and viscous waves with boundary layers.

**Information:** [icerm.brown.edu/programs/sp-s17/](http://icerm.brown.edu/programs/sp-s17/).

### May 2017

- \* 15–19 **Recent Developments in Harmonic Analysis**, Mathematical Sciences Research Institute, Berkeley, California.

**Description:** Topics for this workshop will be drawn from the main research directions of this conference, including: (1) Restriction, Kakeya, and geometric incidence problems (2) Analysis on nonhomogeneous spaces (3) Weighted estimates (4) Quantitative rectifiability and other topics in PDE.

**Information:** [www.msri.org/workshops/805](http://www.msri.org/workshops/805).



**THE CHINESE UNIVERSITY OF HONG KONG**

Applications are invited for:-

**Department of Mathematics**  
**Research Assistant Professor**  
*(Ref. 1516/036(576)/2)*

The Department invites applications for a Research Assistant Professorship in all areas of mathematics.

Applicants should have (a) a relevant PhD degree; and (b) good potential for research and teaching.

Appointment will initially be made on contract basis for up to two years, renewable subject to mutual agreement.

Applications will be accepted until the post is filled.

**Salary and Fringe Benefits**  
 Salary will be highly competitive, commensurate with qualifications and experience. The University offers a comprehensive fringe benefit package, including medical care, plus a contract-end gratuity for an appointment of two years and housing benefits for eligible appointee. Further information about the University and the general terms of service for appointments is available at <https://www2.per.cuhk.edu.hk/>. The terms mentioned herein are for reference only and are subject to revision by the University.

**Application Procedure**  
 Application forms are obtainable (a) at <https://www2.per.cuhk.edu.hk/>, or (b) in person/by mail with a stamped, self-addressed envelope from the Personnel Office, The Chinese University of Hong Kong, Shatin, Hong Kong.

Please send the completed application form and/or full curriculum vitae, together with copies of qualification documents, a publication list and/or abstracts of selected published papers, and names, addresses and fax numbers/e-mail addresses of three referees to whom the applicants' consent has been given for their providing references (unless otherwise specified), to the Personnel Office by post or by fax to (852) 3942 0947.

Please quote the reference number and mark 'Application – Confidential' on cover. The Personal Information Collection Statement will be provided upon request.