Mathematics Calendar

June 2013
2-5 International Conference on Applied Analysis and Mathematical Modelling (ICAAM2013), Yıldız Technical University, Davut Pasa Campus, Istanbul, Turkey. (Mar. 2013, p. 351)
2-8 8th Spring School on Analysis, Paseky nad Jizerou, Czech Republic. (Jan. 2013, p. 114)
3-7 GESTA 2013 (Topological, Symplectic and Contact Spring in Toulouse), Université Paul Sabatier, Toulouse, France. (Jan. 2013, p. 114) * 3-7 Issues in Solving the Boltzmann Equation for Aerospace Applications, ICERM, Providence, Rhode Island. Description: Being central to gas dynamics, the Boltzmann equation describes gas flows at the microscopic level in regimes from free molecular to continuum. Its descriptive power makes it indispensable for predicting non-continuum phenomena in gases when experimental data is limited or not available. The Boltzmann equation is used in a wide range of applications, from external aerodynamics and thruster plume flows to vacuum facilities and microscale devices. Accurate solution of the Boltzmann equation for modeling gas flows arising in aerospace applications continues to be a challenge. Existing numerical capabilities fall short of capturing the complexities of engineering design. Reasons for this range from the absence of mathematical models that capture the physics properly to higher dimensionality of kinetic models and the resulting high cost of computations to the failure of mathematical theories to handle complex geometries of real life applications. Information: http://icerm.brown.edu/tw13-1-isbeaa.
3-7 MEGA 2013: Effective Methods in Algebraic Geometry, Goethe University, Frankfurt am Main, Germany. (Sept. 2012, p. 1172)
3-7 PIMS/EQINOCS Automata Theory and Symbolic Dynamics Workshop, University of British Columbia, Vancouver, BC, Canada. (Apr. 2013, p. 513)
3-7 Workshop on Slow-Fast Dynamics: Theory, Numerics, Application to Life and Earth Sciences, Centre de Recerca Matemática, Bellaterra, Barcelona. (May 2013, p. 651)
3-10 Summer school on Finsler geometry with applications to low-dimensional geometry and topology, Department of Mathematics, University of the Aegean, Karlovassi, Island of Samos, Greece. (Dec. 2012, p. 1593)
3-14 Moduli Spaces and their Invariants in Mathematical Physics, Centre de Recherches Mathématiques, Montréal, Canada. (Feb. 2013, p. 262)
3-28 Focus Program on Noncommutative Geometry and Quantum Groups, Fields Institute for Research in Mathematical Sciences, Toronto, Ontario, Canada. (Sept. 2012, p. 1172)
3-28 Rational Points, Rational Curves and Entire Holomorphic Curves on Projective Varieties, Centre de recherches mathématiques, Montréal, Canada. (Apr. 2013, p. 513)
3-July 12 Nonlinear expectations, stochastic calculus under Knightian uncertainty, and related topics, Institute for Mathematical Sciences, National University of Singapore, Singapore. (Oct. 2012, p. 1303)

This section contains announcements of meetings and conferences to interest 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 title, date 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/.
Description: The workshop is expected to advance discovery while accelerating transferral of research results to practice. It will seek to address disaster planning, response and recovery, and will provide a platform for dialogue between individuals across DHS, NSF and academia. Finally, given the likely long-term consequences of Hurricane Sandy, the results of this work are expected to be of broad interest to government, industry, academia and the public at large. The operation of modern power grids presents challenges and opportunities that are best met with appropriate technical methodology; it is clear that future grids will rely, to a much greater degree than is common today, on extensive sensorization and algorithmic machinery to guide both strategic planning and real-time operation. Although there is significant sophistication already present today, substantial innovative work remains to fulfill the promise implicit in mathematical methodologies.

Organizers: David Mendonca, Rensselaer Polytechnic Institute, mendod@rpi.edu; Fred Roberts, Director of CCICADA, f roberts@dimacs.rutgers.edu.

Information: http://dimacs.rutgers.edu/Workshops/Sandy/.

5–9 4th Novi Sad Algebraic Conference—NSAC 2013. Department of Mathematics and Informatics, Faculty of Science, University of Novi Sad, Novi Sad, Serbia. (Sept. 2012, p. 1173)

7–12 XVth International Conference on Geometry, Integrability and Quantization, Sts. Constantine and Elena Resort, near Varna, Bulgaria. (Mar. 2013, p. 358)


* 10 PIMS Marsden Memorial Lecture, Isaac Newton Institute of Mathematical Sciences, Cambridge, United Kingdom.

Description: Peter Constantin (Princeton University) will give a lecture entitled Nonlocal Evolution Equations, in which he will describe results concerning evolution equations involving nonlocal terms. Particular examples will include the Surface Quasi-Geostrophic equation (SQG) and it generalizations. He will discuss a nonlinear maximum principle for linear nonlocal operators and applications to questions of regularity of solutions, long time dynamics and absence of anomalous dissipation in 2D SQG.


10–11 Workshop on Emergence, Spread and Control of Infectious Diseases, Centre de Recerca Matemàtica, Bellaterra, Barcelona. (May 2013, p. 651)

10–14 AIM Workshop: Automorphic forms and harmonic analysis on covering groups, American Institute of Mathematics, Palo Alto, California. (Nov. 2012, p. 1481)


10–14 Computational Methods and Function Theory 2013, Shantou University, Shantou, Guangdong, China. (Sept. 2012, p. 1173)

10–14 Fourth International Conference on Geometry, Dynamics, Integrable Systems – GDIS 2013, Udmurt State University, Izhevsk, Russia. (May 2013, p. 651)

* 10–14 Mini-courses in Mathematical Analysis 2013, University of Padova, Italy.

Description: Following a long standing tradition, the University of Padova is organizing the meeting “Mini-courses in Mathematical Analysis 2013”. The meeting will take place at “Torre Archimede”, a new building of the University of Padova in the city center. The program consists of four lecture courses delivered by invited speakers and a limited number of short communications. The meeting aims at introducing the participants to important current research fields in Mathematical Analysis. The meeting is particularly indicated not only to graduate students, postdocs and young researchers but also to well-established experts in Mathematical Analysis. In association with ISAAC - International Society for Analysis, its Applications and Computation.

Information: http://minicourses.dmsa.unipd.it/.

10–14 Pde’s, Dispersion, Scattering theory and Control theory, University of Monastir, Monastir, Tunisia. (Dec. 2012, p. 1593)


11–13 4th International Conference on Mathematical and Computational Applications, Ciel Bayar University, Applied Mathematics and Computation Center, Manisa, Turkey. (Dec. 2012, p. 1593)

11–14 6th Chaotic Modeling and Simulation International Conference (CHAOS2013), Yeditepe University, Istanbul, Turkey. (Feb. 2013, p. 262)

11–14 Continued Fractions, Interval Exchanges and Applications to Geometry, Centro di Ricerca Matematica Ennio De Giorgi, Piazza dei Cavalieri 3, Pisa, Italy. (May 2013, p. 651)


16–21 BIOMATH: International Conference of Mathematical Methods and Models in Biosciences and Young Scientists School, Bulgarian Academy of Sciences, Sofia, Bulgaria. (Mar. 2013, p. 359)


* 17–19 Complex Analysis and Approximation, National University of Ireland Maynooth, Maynooth, Ireland.

Description: This is a conference in honour of Anthony G. O’Farrell’s retirement (2012). The expected areas of the talks are those close to Tony’s research which has included complex analysis, extensions and approximation, complex dynamics, and algebraic structures in analysis and geometry.

Invited speakers: Patrick Ahern, Joaquim Bruna, Garth Dales, Seán Dineen, Joel Feinstein, Walter Hayman, Alex Izzo, Dmitry Khavinson, Roman Lávicka, Don Marshall, Ivan Netuka, Richard Timoney, Joan Verdera, David Walsh.


Information: http://www.maths.nuim.ie/13CAA/.

17–20 7th Annual International Conference on Mathematics, Athens Institute for Education and Research, Athens, Greece. (May 2013, p. 651)

17–20 Young Researchers in Mathematics (YRM2013), Edinburgh, Scotland. (Apr. 2013, p. 513)


* 17–21 BIOMAT 2013: Evolution and cooperation in social sciences and biomedicine, Facultad de Ciencias, Universidad de Granada, Granada, Spain.

Description: Tomás Alarcón (Centre de Recerca Matemàtica, Barcelona, Spain): An introduction to stochastic models in mathematical biology; Mario Primicerio (Dipartimento di Matematica “Ulisse Dini”, Univ. degli Studi di Firenze, Italy), Mathematical models for social
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changes and criminology; Koby Rubinstein (Dept. of Math., Technion Inst. of Tech., Israel), Mathematical challenges in medicine; Karl Sigmund (Faculty for Math., Univ. of Vienna, Austria), On the evolution of cooperation; Corina Tarnina (Princeton Univ.), Cooperation and the evolution of social behavior: From multicellularity to eusociality. We have organized, during the school, a meeting of "young researchers modelling biological processes." The call to participate in this meeting is now open. Information: http://www.ugr.es/local/kinetic/biomat/.

17–21 Conference on Variational Problems and Geometric PDE’s, Granada, Spain. (May 2013, p. 513)

17–21 Fluid Mechanics and Singular Integrals, Institute of Mathematics of the University of Seville (IMUS), Seville, Spain. (Mar. 2013, p. 358)


17–21 Summer school on Donaldson hypersurfaces (in Topological, Symplectic and Contact Spring in Toulouse), La Llagonne, France. (Jan. 2013, p. 115)

17–21 XVII International Conference on Waves and Stability in Continuous Media, Bellavista Hotel, Levico terme (TN), Italy. (Apr. 2013, p. 115)

17–23 Numerical Computations: Theory and Algorithms (International conference and Summer School NUMTA2013), Europolis Hotel, Falerna (CZ), Tyrrhenian Sea, Italy. (Feb. 2013, p. 262)

17–28 Algebraic Graph Theory, University of Wyoming, Laramie, Wyoming. (Jan. 2013, p. 115)

17–28 Algebraic Topology, Mathematical Sciences Research Institute, Berkeley, California. (Nov. 2012, p. 1481)

17–August 9 SUMMERICERM: 2013 Undergraduate Summer Research Program Geometry and Dynamics, ICERM, Providence, Rhode Island. (Jan. 2013, p. 115)

18–20 The 9th East Asia SIAM (EASIAM) Conference & The 2nd Conference on Industrial and Applied Mathematics (CIAM), Bandung Institute of Technology, Bandung, Indonesia. (Feb. 2013, p. 262)

18–21 Financial Engineering Summer School (FESS2013), Bolsa de Barcelona, Spain. (May 2013, p. 651)

19–21 Nonlinear Elliptic and Parabolic Partial Differential Equations, Dipartimento di Matematica, Politecnico di Milano, Italy. (Jan. 2013, p. 115)


20–21 DIMACS Workshop on Big Data Integration, DIMACS Center, CoRE Building, Rutgers University, Piscataway, New Jersey. (Mar. 2013, p. 359)


22–29 Physics and Mathematics of Nonlinear Phenomena 2013, Hotel Le Sirene, Gallipoli, South of Italy. (Oct. 2012, p. 1303)

23–30 Bogolyubov readings DIF-2013. Differential equations, theory of functions and their applications, Sevastopol Institute of Banking, Sevastopol, Ukraine. (May 2013, p. 651)

24–26 Numerical Analysis and Scientific Computation with Applications (NASCA13), University of Littoral Cote d’Opale, Calais, France. (Jan. 2013, p. 115)


Description: The conference is a new activity of the Jaen Approximation Project. Jaen Approximation Project has organized ten editions of the Ubeda Meeting on Approximation and three editions of the Jaen Conference on Approximation. It also issues the Jaen Journal on Approximation from 2009. The objective of these conferences is to provide a useful and nice forum for researchers in the subjects to meet and discuss. In this sense, the conference programs have been designed to keep joined the group during four/five days with a program full of scientific and social activities. The Conference will be devoted to some significant aspects on Approximation Theory, Computer Aided Geometric Design, Numerical Methods and the Applications of these fields in other areas. As usual, the Conference will take place in Ubeda, a World Heritage Site. Information: http://www.ujoen.es/revista/jja/jca/.

24–28 Constructive Mathematics: Foundations and Practice, University of Niš (Faculty of Mechanical Engineering), Niš, Serbia. (Apr. 2013, p. 514)

24–28 EACA’S Second International School on Computer Algebra and Applications, Faculty of Sciences, University of Valladolid, Spain. (Feb. 2013, p. 262)


24–28 The Second Pacific Rim Mathematical Association Congress (PRIMA-2013), Shanghai Jiao Tong University, Shanghai, China. (May 2013, p. 651)


24–28 2013 USENIX Federated Conferences Week (USENIX FWC’13), San Jose, California.

Description: Back for 2013, USENIX is combining conferences and workshops, both established and new, into one week chock full of research, training, and information. The USENIX Federated Conferences Week offers a unique opportunity to gain insight into a variety of hot topics, while the joint lunches, breaks, and evening events provide cross-topic networking possibilities. Your daily registration gets you into all the events happening that day. Events at FWC’13 include: USENIX ATC’13: 2013 USENIX Annual Technical Conference; ICAC’13: 10th International Conference on Autonomic Computing; HotPar’13: 5th USENIX Workshop on Hot Topics in Parallelism; UCMS’13: 2013 USENIX Configuration Management Summit; HotCloud’13: 5th USENIX Workshop on Hot Topics in Cloud Computing; WiAC’13: 2013 USENIX Women in Advanced Computing Summit; HotStorage ’13: 5th USENIX Workshop on Hot Topics in Storage and File Systems; HotSWUp’13: 5th Workshop on Hot Topics in Software Upgrades.


24–29 5th Conference for Promoting the Application of Mathematics in Technical and Natural Sciences (AMITaNS’13), Resort of Albena, Bulgaria. (Feb. 2013, p. 262)

24–July 5 2013 AMSI Winter School, The University of Queensland, Brisbane, Queensland, Australia.

Description: 2013 is the International Year of the Mathematics of Planet Earth, and the 8th annual AMSI Winter School will be on this
theme. The Winter School is aimed at post-graduate students and postdoctoral fellows in the mathematical sciences and cognate disciplines. The Winter School aims to enable participants to broaden and deepen their mathematical knowledge, and to build collaborative networks with other PhD students and early career researchers. A series of mini-courses will be offered over the two-week long school. The courses in the first week will be more introductory in nature, and the courses in the second week will lead into current research problems. The courses cover a range of topics in the broad area of the mathematics of planet earth, and are offered by eminent national and international researchers. The Winter School is one of AMSI's flagship higher-education programs, which comprise vacation schools (Summer School, Winter School and BioInfoSummer), Vacation Research School.


25–28 Advanced Course on Topics in Conformal Geometry and Geometry Analysis, Centre de Recerca Matemàtica, Bellatera, Barcelona. (May 2013, p. 652)

* 25–28 Graph Operad Logic, Tallinn University of Technology, Tallinn, Estonia.

Description: The main purpose of the meeting is to stimulate and promote interactions between the following three research areas: differential graphical calculus (DGC), operad algebra and logic as main ingredients of the applied category theory with wide application prospects everywhere in contemporary science, cognition and technology.


26–29 International Symposium on Symbolic and Algebraic Computation (ISSAC), Northeastern University, Boston, Massachusetts. (Nov. 2012, p. 1481)


30–July 5 British Combinatorial Conference 2013, Royal Holloway, University of London, Egham, United Kingdom. (Feb. 2013, p. 262)


July 2013


1–5 Conference on Geometrical Analysis, Centre de Recerca Matemàtica, Bellatera, Barcelona. (May 2013, p. 652)

1–5 Erdős Centennial, Budapest, Hungary. (Sept. 2012, p. 1173)

1–5 International conference on Sampling Theory and Applications 2013, Jacobs University, Bremen, Germany. (Sept. 2012, p. 1173)

* 1–5 28th Journées Arithmétiques JA 2013, University Joseph Fourier Grenoble I, Grenoble, France.

Description: The (JA) Journées Arithmétiques are International Conferences devoted to number theory and its interactions. An Int. Sci. Com. (chaired by David Masser in 2013) selects 12 prominent scientists of the moment to be the invited speakers. In 2013, the Prof. Em. Yuri Manin will give the "Public Lecture". The JA was held at Grenoble (France) in 1960 for the first time, under the impulsion of Claude Chabauty, in an attempt to structure the French activities in the domain of number theory and to give them a better visibility. The JA are organized each two years, in France, then in a nonFrench European university/city (2005: Marseilles, 2007: Edinburgh, 2009: St-Etienne, 2011:Vilnius). The number of participants exceeds 250.


1–5 The 6th Pacific RIM Conference on Mathematics 2013, Sapporo Convention Center, Sapporo City, Japan. (Nov. 2012, p. 1481)

1–5 7th International Summer School on Geometry, Mechanics and Control (ICMAT School), La Cristalera, Miraflores de la Sierra, Madrid, Spain. (Feb. 2013, p. 262)

1–5 Oxford Conference on Challenges in Applied Mathematics (OCCAM), St Anne’s College, Oxford, United Kingdom. (May 2013, p. 652)

1–5 Preconditioning of Iterative Methods—Theory and Applications 2013 (PIM 2013), Faculty of Civil Engineering, Czech Technical University in Prague, Czech Republic. (Oct. 2012, p. 1303)

1–12 Advanced School and Workshop on Matrix Geometries and Applications, The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.

1–12 New Geometric Techniques in Number Theory, Mathematical Sciences Research Institute, Berkeley, California. (Nov. 2012, p. 1481)

2–5 The 4th International Conference on Matrix Analysis and Applications, Konya, Turkey. (Nov. 2012, p. 1481)


3–6 International Conference on Anatolian Communications in Nonlinear Analysis (ANCNA 2013), Abant Izzet Baysal University, Bolu, Turkey. (Feb. 2013, p. 263)


8–10 SIAM Conference on Control and Its Applications (CT13), Town and Country Resort and Convention Center, San Diego, California. (Sept. 2012, p. 1174)


* 8–12 Low-Dimensional Topology after Floer, Le Centre de Recherches Mathématiques, Montreal, Quebec, Canada.

Description: The conference will focus on the current impact of Floer homology methods in low-dimensional topology. In recent years, the interactions between geometric, contact and symplectic topology and the many types of Floer homologies have proved very successful in solving outstanding questions in low-dimensional topology, and there are signs that more breakthroughs will occur in the near future. This event will bring together leading experts working in these related areas, but also a special emphasis will be put on the invitation of up-and-coming researchers and graduate students,
some of whom will have attended the SMS summer school on the mathematics and physics of knot homologies. Information: h t t p : / / w w w . c r m . u m o n t r e a l . c a / a c t / t h e m e / t h e m e _ 2 0 1 2 _ 2 _ e n / f l o e r i 1 2 _ e . p h p .
8–12 Mathematics of Planet Earth Australia 2013, RMIT, Melbourne, VIC, Australia. (May 2013, p. 652)
8–12 Mathematics of Planet Earth 2013 - Pan-Canadian Thematic Program - Climate Change and the Ecology of Vector-borne Diseases, Fields Institute, CDM, Toronto, Canada. (Sept. 2012, p. 1174)
* 8–17 Summer School on Dynamical Systems, Pomorski Park Naukowo-Technologiczny, Al. Zwycięstwa 96/98, 81-451 Gdynia, Poland. Description: Baltzycki Iinstytut Matematyki is organizing the Summer School on Dynamical Systems. This meeting is mostly intended for Ph.D. students and postdocs working on Dynamical Systems. It is a good opportunity to meet students with the same research interests. Topics: Stability theory, chaotic dynamics, ergodic theory, billiards theory and more. About twelve lecturers well-known in the field will give a 6-hour mini-course each. Information: h t t p : / / w w w . u g r . e s / l o c a l / k i n e t i c / s a n t a l o / .
9–10 Random Perturbations and Statistical Properties of Dynamical Systems, Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany. Description: The aim of the workshop is to bring together experts working on different aspects related to random perturbations and statistical properties of dynamical systems, as well as young researchers and Ph.D. students interested in the area. All the speakers are supposed to motivate their talks and embed them into a broad context, in order to make them accessible also to non-specialists. In addition, there will be a few survey lectures on recent advances and techniques used to describe from a statistical point of view randomly perturbed dynamics, and a few contributed talks by young researchers. Topics: Random perturbations and physical measures of dynamical systems, large deviations and concentration inequalities, stochastic aspects of bifurcations, statistical and stochastic stability. Information: h t t p : / / w w w . m i s . m p g . d e / c a l e n d a r / c o n f e r e n c e s / 2 0 1 3 / r a n d y n 1 3 / .
9–12 Moduli-Operads-Deformations, Buskerud University College, Kongsvig, Norway. (May 2013, p. 652)
* 11–12 Variational methods and partial differential equations workshop on the occasion of Michel Willem’s 60th birthday, Université Catholique de Louvain, Louvain-la-Neuve, Belgium. Description: Workshop on variational methods, semilinear elliptic partial differential equations and critical point theory. It will be preceded by a mini-course for graduate students. Information: h t t p : / / w w w . u c l o u v a i n . b e / p d e 2 0 1 3 / .
14–19 The Sixth International Congress of Chinese Mathematicians (ICCM), Opening ceremony on July 14 in the Big Hall of the Grand Hotel, Taipei, Taiwan. Lectures and invited talks from July 15–19 on the campus of National Taiwan University, Taipei, Taiwan. (Jan. 2013, p. 116)
* 15–18 4th European Set Theory Conference, Mon Sant Benet, Barcelona/Manresa, Catalonia, Spain. Scientific program: Andrzej Mostowski Centenary. Invited lecture by Adam Krawczyk (Warsaw). Tutorial by Moti Gitik (Tel Aviv). Lecture by the winner of the Hausdorff Medal. Plenary lectures: Laura Fontanella, Menachem Magidor, Michael Rathjen, John Steel, Philip Welch. 8 invited lectures. Contributed talks. Poster sessions. Round table on the future of set theory. Registration fees: Regular 250; Shared room-200 euros. Junior people from Eastern Europe and less-developed countries may apply for a grant by sending a CV together with a recommendation letter from a senior set-theorist to 4thESTC@gmail.com. Online registration: Is currently open at h t t p : / / e s t c o n g r e s s . o r g / .
Contributed talks: The deadline for submitting an abstract for a contributed 20- or 50-minute talk is April 15, 2013. Information: h t t p : / / e s t c o n g r e s s . o r g / .
15–19 Finite Dimensional Integrable Systems 2013, CIRM, Marseille, France. (Dec. 2012, p. 1594)
15–19 General Algebra and its Applications GAIA2013, La Trobe University, City Campus, Melbourne, Victoria, Australia. (May 2013, p. 652)
15–19 ICERM IdeaLab 2013: WeeKlong Program for Postdoctoral Researchers, ICERM, Providence, Rhode Island. (Jan. 2013, p. 116)
15–19 7th International Conference on Levy Processes: Theory and Applications, University of Wroclaw and Wroclaw University of Technology, Wroclaw, Poland.
* 15–19 School “Luis Santaló”: Mathematics of Planet Earth: Scientific challenges in a sustainable planet, Palacio de la Magdalena in Santander, Spain. Programme: Jordi Bascompte (Integrative Ecology Group, Estación Biológica de Doñana, CSIC, Spain), The mathematics of biodiversity; Nicola Bellomo (Politecnico di Torino, Torino, Italy), Towards a theory of complex living beings; Joel Brown (UIUC Biological Sciences, University of Illinois at Chicago), Evolutionary game theory: From life on earth to pest management and cancer; Juan Manuel Garcia Ruiz (CSIC and University of Granada, Spain), Patterns on the rocks; Robert Gatenby (Moffitt Cancer Centre, Tampa, Florida), Living with your enemy; Jorge M. Pacheco (University of Minho, Portugal), Evolution of diversity and cooperation; Eitan Tadmor (Center for Scientific Computation and Mathematical Modelling, University of Maryland), Consensus and flocking in self-alignment dynamics. Information: h t t p : / / w w w . u g r . e s / l o c a l / k i n e t i c / s a n t a l o / .
15–19 Symmetries of Discrete Systems and Processes, Decin, Czech Republic, North Bohemia. (May 2013, p. 652)
* 15–27 XVI Summer Diffiety School, Pomorski Park Naukowo-Technologiczny, Gdynia, Poland. Description: The aim of this permanent School is to introduce undergraduate and Ph.D. students in mathematics and physics as well as post-doctoral researchers in a recently emerged area of mathematics...
and theoretical physics: Secondary calculus. A diffiety is a new geometrical object that properly formalizes the concept of the solution space of a given system of (nonlinear) PDEs, much as an algebraic variety does with respect to solutions of a given system of algebraic equations. Secondary calculus is a natural diffiety-analogue of the standard calculus on smooth manifolds, and as such leads to a very rich general theory of nonlinear PDEs. Moreover, it appears to be a natural language for quantum physics, just as the standard calculus is the natural language for classical physics.

*Scientific Director:* Professor A. M. Vinogradov.

*Organizing Committee:* S. Bytsun, C. Kolodina, M. Sorokina, L. Vittagliano, N. Zinoviev.


15–August 2 *School and Workshop on Geometric Measure Theory and Optimal Transport*, International Centre for Theoretical Physics (ICTP), Trieste, Italy. (Apr. 2013, p. 514)

16 *Workshop on Time Delay Systems — Stability and Control in Applications*, ETH, Zurich, Switzerland.

*Description:* The workshop will be held preceding the European Control Conference ([http://www.ecc13.ch/](http://www.ecc13.ch/)) that will be held in Zurich, Switzerland, July 17-19, 2013. Details of the Workshop can be found at [http://www.ecc.neu.edu/~rifat](http://www.ecc.neu.edu/~rifat).

*Lecturers:* Fatihcan A. Atay, Germany; Dimitri Breda, Italy; Wim Michiels, Belgium; Silvju-Julian Niculescu, France; Hitay Ozbay, Turkey; Rifat Sipahi, USA.


*18 CRM-Fields-PIMS Prize Lecture*, Simon Fraser University, IRMACS Theatre, Vancouver BC, Canada.

*Description:* Professor Bruce Reed (McGill) has been awarded the 2013 CRM/Fields/PIMS Prize. The prize recognizes exceptional achievement in the area of mathematical sciences and is considered one of Canada's top honours in mathematics. The prize carries a monetary award of CAD $10,000 and the recipient presents lectures at each of the three awarding institutes.


*18–19 Model Theory and Applications to Geometry*, Center for Mathematics and Fundamental Applications (CMAF), Lisbon, Portugal.

*Description:* Professor Bruce Reed (McGill) has been awarded the 2013 CRM/Fields/PIMS Prize. The prize is to give the opportunity to the participants, of hearing more about the recent developments in model theory and its applications and connections to real geometry.

*Invited speakers:* Raf Cluckers (Univ. de Lille and KULeuven), Antonio G. Fornasiero (Seconda Univ. di Napoli), Isaac Goldbring (UCI), François Loeser (Univ. Pierre et Marie Curie), Chris Miller (Ohio State University), Giovanni Morando (Univ. di Padova), Jean-Philippe Rolin (Univ. de Bourgogne), Raf Cluckers (Univ. de Lille and KULeuven), Antonio G. Fornasiero (Seconda Univ. di Napoli), Isaac Goldbring (UCI), François Loeser (Univ. Pierre et Marie Curie), Chris Miller (Ohio State University), Giovanni Morando (Univ. di Padova), Jean-Philippe Rolin (Univ. de Bourgogne).

*Organizers:* Mario Edmundo, Marcello Maminho, Luca Prelli, Tamara Servi.

*Registration:* If you plan on attending this event, please contact: email: tamara.servi@gmail.com.


20–25 *European Meeting of Statisticians*, Eotvos Lorand University, Budapest, Hungary. (Sept. 2012, p. 1174)

*Description:* The workshop will be hosted by Bialystok Branch of the Polish Mathematical Society. This meeting continues in the line of other PODE workshops, the first two held in Laufen (Germany) PODE 2007, PODE 2008, followed by the workshops in Bedlewo (Poland) PODE 2009, Xanthi (Greece) PODE 2010, Dublin (Ireland) PODE 2011, and Richmond (Virginia, USA) PODE 2012. The workshop aim is to provide a forum for researchers in the area of difference equations (ordinary and partial), discrete dynamical systems, and their applications, to discuss and exchange their latest works. There will be organized a special session dedicated to fractional difference equations. The conference will consist of invited plenary talks and contributed presentations.


23–25 *Moscow International Conference “Israel Gelfand Centenary”*, Russian Academy of Science, Leninski Ave., Moscow, Russia. (May 2013, p. 652)


22–26 *Samuel Eilenberg Centenary Conference*, Warsaw, Poland. (Apr. 2013, p. 514)

22–26 *VII International Meeting on Lorentzian Geometry*, University of Sao Paulo, Sao Paulo, Brazil.

*Description:* The aim of the meeting is to gather together researchers working on Lorentzian Geometry, Pseudo-Riemannian Geometry, General Relativity and Mathematical Relativity.

*Confirmed speakers:* Albert Fathi, Lyon, France; Bennett Palmer, Idaho State University, USA; Giovanni Calvaruso, Lecce, Italy; Jorge Herbert de Lira, Fortaleza, Brazil; Jose Luis Flores, Málaga, Spain; José Maria Martín Sevilla, Bilbao, Spain; Laszlo Beno Szabados, Budapest, Hungary; Levi Lopes de Lima, Fortaleza, Brazil; Miguel Brozos-Vázquez, Universidade da Coruña, Spain; Myuki Koiso, Kyushu University, Japan; Nicolas Ginoux, Regensburg, Germany. The event is open to speakers from several countries, giving them the opportunity to present their own recent research, and stimulating the interaction among them. The program will include an open problems session, where contribution of all participants is welcome to discuss problems in these areas of mathematics of growing interest.


22–August 9 *Complex Geometry*, Institute for Mathematical Sciences, National University of Singapore, Singapore. (May 2013, p. 653)

23–26 *4th Canadian Conference on Nonlinear Solid Mechanics (CanCNSM2013)*, McGill University, Montreal, Quebec, Canada. (May 2013, p. 653)


*Description:* To provide a platform to scholars, academicians, practitioners, and business managers to share their valuable knowledge and experience with each other in the context of changing global market. The objective of the conference is to bring people from academia and business world closer so that they can share the latest technology developments in the fields of computing, engineering, education, business, economics, organizational information security, social sciences, and technology as well as challenges of information security of these topics.


August 2013

1–3 15th IMS New Researchers Conference, Centre de recherches mathématiques, Montréal, Canada. (Apr. 2013, p. 514)


5–9 1st Mathematical Congress of the Americas, Guanajuato, Mexico. (Sept. 2012, p. 1174)

5–9 AIM Workshop: Sections of convex bodies, American Institute of Mathematics, Palo Alto, California. (Mar. 2013, p. 360)

5–9 BLAST 2013, Chapman University, Orange, California.

Description: BLAST is a conference focusing on B = Boolean Algebras, L = Lattices, Algebraic and Quantum Logic, A = Universal Algebra, S = Set Theory, T = Set-theoretic and Point-free Topology.

Invited Speakers: Bernhard Banaschewski (McMaster), William DeMeo (Univ. South Carolina), Francois Dorais (Dartmouth), Mai Gehrke (Paris 7, CNRS), Steven Givant (Mills College), Steve Jackson (Univ. North Texas), Michael Pinsker (Paris 7), Dima Sinapova (Univ. Illinois at Chicago), Sam van Gool (Radboud Univ., Nijmegen). Invited tutorials by Martin Escardo (Univ. Birmingham), Heinz-Peter Gumm (Univ. Marburg), Hilary Priestley (Oxford).

Information: http://www.chapman.edu/events/blast-2013/

5–9 Quantum/Affine Schubert Calculus, University of Oregon, Eugene, Oregon. (Mar. 2013, p. 360)

5–9 XXII Rolf Nevanlinna Colloquium, Helsinki, Finland. (Aug. 2011, p. 1014)

5–16 Hypergeometric Functions and Representation Theory, Cimpa-Unesco-Mesr-Mineco-Mongolia Research School, National University of Mongolia, Ulaanbaatar, Mongolia.

Description: The research school will focus on theory of hypergeometric functions, representation theory and representation-theoretic approaches to hypergeometric functions. The school intends to promote young researchers in Mongolia and other countries. Graduate students and young researchers of Mongolia, from Asian countries and students from other countries like Europe, Japan and America are welcomed.

Information: http://www.cimpa-icpam.org/spip.php?article484


11–12 A quasiconformal life: Celebration of the legacy and work of F. W. Gehring, University of Helsinki, Helsinki, Finland. (Mar. 2013, p. 361)


12–15 International Conference on Algebra in Honour of Patrick Smith and John Clark’s 70th Birthdays, Balikesir, Turkey. (Nov. 2012, p. 1482)

12–15 12th International Workshop on Dynamical Systems and Applications, Atılım University, Ankara, Turkey. (Mar. 2013, p. 361)

12–17 18th International Summer School on Global Analysis and Applications, Juraj Pales Institute, Bottova 15, Levoča, Slovakia. (May 2013, p. 653)

12–October 11 Mathematical Horizons for Quantum Physics 2, Institute for Mathematical Sciences, National University of Singapore, Singapore. (May 2013, p. 653)


12–16 Random Trees, Centre de Recherches Mathématiques, Montréal, Canada. (Dec. 2012, p. 1595)

12–16 2nd Strathmore International Mathematics Conference (SIMC-2013), Strathmore University, Nairobi, Kenya. (Feb. 2013, p. 263)


19–23 Differential Geometry and its Applications, Masaryk University, Old campus, Brno, Czech Republic. (May 2013, p. 653)

19–23 Fifth Montreal Problem Solving Workshop, A CRM-Mprime Event, Centre de Recherches Mathématiques, Montréal, Canada. (Apr. 2013, p. 515)


19–September 13 Infectious Disease Dynamics, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. (Dec. 2012, p. 1595)


19–December 20 Optimal Transport: Geometry and Dynamics, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2012, p. 1175)

*21–23 The 38th Sapporo Symposium on Partial Differential Equations, Room 203, Faculty of Science Building #5, Hokkaido University, Sapporo, Hokkaido, Japan.

Description: The Sapporo Symposium on Partial Differential Equations has been held annually to present the latest developments on partial differential equations (PDE). The aim of the symposium is to help boost interaction and in-depth discussion among researchers working on different branches of PDE.

Organizers: H. Kubo (Hokkaido University), H. Takaoka (Hokkaido University).

Program Committee: H. Kubo (Hokkaido University), H. Takaoka (Hokkaido University), Y. Tonegawa (Hokkaido University), S. Jimbo (Hokkaido University), Y. Giga (The University of Tokyo), T. Ozawa (Waseda University), K. Tsutaya (Hirosaki University), H. Takaoka (Hokkaido University), H. Takaoka (Hokkaido University).

Contact: email: ccri@math.sci.hokudai.ac.jp.

Information: http://www.math.sci.hokudai.ac.jp/symo/sapporo/program130821_en.html

22–23 Connections for Women on Optimal Transport: Geometry and Dynamics, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2012, p. 1175)


25-27 The 7th Global Conference on Power Control and Optimization (PCO’2013), Prague, Czech Republic. (Feb. 2013, p. 263)


26-30 Introductory Workshop on Optimal Transport: Geometry and Dynamics, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2012, p. 1175)


Description: The Colloquium on Differential Geometry and its Applications will be held in Debrecen, Hungary, organized by the Department of Geometry, University of Debrecen, Hungary, in cooperation with the Debrecen Branch of the Hungarian Academy of Sciences and the Janos Bolyai Mathematical Society, as a joint event with the IX-th International Conference on Finsler Extensions of Relativity Theory (FERT 2013). During the Colloquium we celebrate the 90th birthday of Professor Lajos Tamassy, doyen of Hungarian differential geometry. The scientific program (26-30th August) is devoted to lectures given by the participants of CDG and FERT and invited lectures on various fields of differential geometry together with global analysis and applications to mathematical physics. Parallel sessions will run for CDG and FERT in the afternoons.

Information: http://www.math.unideb.hu/diffgeo/.

26-September 7 DGS 2013 — International Conference and Advanced School Planet Earth, Dynamics, Games and Science, Calouste Gulbenkian Foundation (FCL) and Escola Superior de Economia e Gestão, Universidade Técnica de Lisboa (ISEG-UTL), Lisbon, Portugal. (Mar. 2013, p. 361)

* 27-30 The 44th Annual Iranian Mathematics Conference, Ferdowsi University of Mashhad, Mashhad, Iran.

Description: The Annual Iranian Mathematics Conference has been held since 1970. The 11th, 22nd and 33rd annual Iranian mathematics conferences were held at Ferdowsi University of Mashhad and now we are pleased to organize the 44th conference. The conference will provide a forum for mathematicians worldwide and scholar students to present their latest results about all aspects of pure and applied mathematics and a means to discuss their recent researches with each other. Interested scientists are warmly invited to propose their new ideas and recent researches for enhancing the scientific level of the conference. The language of the presentation may be English or Farsi. We look forward to meeting you in the second biggest city of Iran, Mashhad. For participating in the conference, the international mathematicians may contact the scientific chair, Prof. M. S. Moslehian, via moslehian@member.ams.org or http://imc44@um.ac.ir.


27-31 The 9th William Rowan Hamilton Geometry and Topology Workshop, on Geometry and Groups after Thurston, Hamilton Mathematics Institute, Trinity College, Dublin, Ireland. (Mar. 2013, p. 361)


Description: The Symposium on Trustworthy Global Computing is an international annual venue dedicated to safe and reliable computation in the so-called global computers, i.e., those computational abstractions emerging in large-scale infrastructures such as service-oriented architectures, autonomic systems and cloud computing. The TGC series focuses on providing frameworks, tools, algorithms and protocols for designing open-ended, large-scaled applications and for reasoning about their behaviour and properties in a rigorous way. The related models of computation incorporate code and data mobility over distributed networks that connect heterogeneous devices and have dynamically changing topologies.

Information: http://sysma.lab.imtlucca.it/tgc2013/.

September 2013


1-6 Kango-100, Methods of Analysis and Algebra, International Conference dedicated to the Centennial of Professor Gunnar Kango, University of Tartu, Tartu, Estonia. (Feb. 2013, p. 264)

1-7 51st Summer School on Algebra and Ordered Sets, Hotel Troyer, Trojanovice, Czech Republic.

Description: A traditional conference focused on general algebra and ordered sets. The scientific program consists of 20- or 30-minute talks by the participants, plus plenary lectures by invited speakers.


* 1-November 30 Research Programme on Geometry and Dynamics of Integrable Systems, Centre de Recerca Matemàtica, Bellaterra, Barcelona.

Description: This research Programme wants to focus on the geometrical and the dynamical aspects in the study of integrable systems. We want to specially stress the following topics in the study of integrable systems: Connections of several aspects showing up in the geometry, topology and dynamics of integrable systems in symplectic manifolds such as singular aspects of integrable systems, symplectic topology of integrable systems, integrability criteria and obstructions to integrability, connection with geometric quantization and integrable systems in contact and Poisson manifolds; study of geodesic flows, their integrability and non-integrability; methods and examples; applications to mathematical physics and classical differential geometry.

Scientific Committee: Vladimir Matveev, Eva Miranda, Francisco Presas and Iskander Taimanov.


2-5 XXI International Fall Workshop on Geometry and Physics, University of Évora, Évora, Portugal. (Mar. 2013, p. 362)
Mathematics Calendar

* 2–6 School and Workshop on Conformal Blocks, Vector Bundles on Curves and Moduli of Curves, Mathematics Department, G. Castelnuovo Sapienza, Universita di Roma, Rome, Italy.
** Aim: Of this school/workshop is to give an introduction to conformal blocks, their construction and use as research tools and objects in different branches of algebraic geometry and topology, in particular moduli spaces of algebraic curves and of vector bundles on curves. Four mini-courses of 5 hours each will be held.
** Speakers: Prakash Belkale (Univ. North Carolina at Chapel Hill), Angela Gibney (Univ. of Georgia at Athens), Christian Pauly (Univ. de Nice Sophia-Antipolis), Aaron Pixton (Princeton University).
** Funding: It is possible for Ph.D. students and young post-docs to apply for funding for lodging guaranteed by our sponsors. Subscribe to the conference on the registration page to apply.
** Deadline: For applying for funding is May 31st, 2013.
** Information: http://conformalmoduli.sciencesconf.org/.

3–4 Connections for Women: Mathematical General Relativity, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2012, p. 1175)

3–6 CAI 2013: 5th Conference on Algebraic Informatics, ERICSS and IML, Aix-Marseille University, IGESA, Porquerolles Island, France. (Dec. 2012, p. 1596)

4–6 Loday Memorial Conference, Institut de Recherche Mathématique Avancée (IRMA), Strasbourg, France. (May 2013, p. 654)

** Description: Density functional theory (DFT) has become an enormously successful tool for electronic structure calculations. Recent work has sought to re-examine the link between DFT, semiclassical approximations, and functional analysis. Numerical and heuristic results suggest a close (but subtle) underlying link. Understanding of these links, and using them to build new and more powerful approximations, could have tremendous impact in modern electronic structure calculations. The aim of this workshop is to reunite these disparate strands and begin a conversation among the different communities, including researchers from mathematics, physics, and theoretical chemistry. An application and registration form are available online.
** Information: http://www.ipam.ucla.edu/programs/dft2013/.

6–12 Conference on Integrability, Topological Obstructions to Integrability and Interplay with Geometry, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.
** Description: The main goal of this workshop is to gather specialists in different aspects, dynamical aspects and connection with other areas like mathematical physics.
** List of speakers: Alain Albouy (CNRS), Sergey Bolotin (UW-Madison), Alexey V. Borisov (Udmurt State Univ.), Vincent Colin (Univ. de Nantes), Lucía Di Vizio (Univ. de Versailles-St. Quentin), Christian Duval (Centre National de la Recherche Scientifique Marseille, France), Rui Loja Fernandes (Univ of Illinois at Urbana-Champaign), Valerij Vasilievich Kozlov (Russian Academy of Sciences), Boris Kruglikov (Univ. of Tromso), Ivan Sergeevich Mamaev (Institute of Computer Science), Valentin Ovsienko (Univ. Claude Bernard-Lyon), Daniel Peralta (ICMAT), Jean-Pierre Ramis (Univ. Paul Sabatier), Tudor Ratiu (EPFL), Dmitry Treschev (Steklov Mathematical Institute) and Jacques-Arthur Weil (Univ. de Limoges).

8–14 Combinatorial Methods in Topology and Algebra, II Palazzone, Cortona, Italy. (Feb. 2013, p. 264)

9–11 Aachen Conference on Computational Engineering Science (ACCES), ACCES takes place at RWTH Aachen University (SuperC building), Germany. (May 2013, p. 654)


9–11 Seventh International Workshop Meshfree Methods for Partial Differential Equations, Universität Bonn, Germany.
** Organizers: Ivo Babuska (University of Texas, Austin, USA), Ted Belytschko (Northwestern University, USA), Jun-Shyan Chen (University of California, USA), Michael Griebel (Universität Bonn, Germany), Wing Kam Liu (Northwestern University, USA), Marc Alexander Schweitzer (Universität Bonn, Germany), Harry Yserentant (Technische Universität Berlin, Germany).
** Contact: http://wissrech.ins.uni-bonn.de/meshfree; email: meshfree@ins.uni-bonn.de.
** Information: http://wissrech.ins.uni-bonn.de/meshfree.

9–13 AIM Workshop: Definability and decidability problems in number theory, American Institute of Mathematics, Palo Alto, California.
** Description: This workshop, sponsored by AIM and the NSF, will be devoted to studying definability and decidability questions in number theory, more specifically over rational numbers and their algebraic extensions, as well as over rings of functions of natural interest.

9–13 European Conference on Combinatorics, Graph Theory and Applications - EuroComb 2013, National Research Council of Italy (CNR), Pisa, Italy. (Mar. 2013, p. 362)


9–14 Advanced Course on Geometry and Dynamics of Integrable Systems, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.
** Objectives: This advanced course aims at describing different aspects in the study of integrable systems from a geometrical, algebraic and dynamical point of view.
** Organizing and scientific committee: Vladimir Matveev (Jena), Eva Miranda (UPC), Francisco Presas (ICMAT) and Iskander Taimanov (Novosibirsk).
** Speakers at Minicourses: There are 4 sessions in each group. Alexey Bolsinov (Loubozour), “singularities of bi-Hamiltonian systems and stability analysis”; Juan Jose Morales-Ruiz (UPM), “integrable systems and differential galois theory”; Nguyen Tien Zung (Toulouse), “geometry of integrable non-Hamiltonian systems”

9–December 6 ICERM Semester Program on “Low-Dimensional Topology, Geometry, and Dynamics”, Institute for Computational and Experimental Research in Mathematics (ICERM), Providence, Rhode Island. (Sept. 2012, p. 1176)

9–11 BioDynamics 2013, Bristol, United Kingdom.
** Description: Rhythms in biological systems – the theme for our first in a series of annual workshops designed to bring together biologists, mathematicians, clinicians, physicists, and computer scientists who are interested in dynamical systems in the biological and medical sciences. These workshops will provide a unique forum for multidisciplinary interactions, which we hope will lead to rewarding collaborations between theoretical, experimental, and clinical scientists.
** Confirmed keynote speakers: Professor Russell Foster, University of Oxford, UK; Dr. Michael Hastings, MRC Laboratory of Molecular Biology, Cambridge, UK; Professor David Hazlitt, University of Aberdeen, UK; Professor Allan Herbison, University of Otago Centre for
Neuroendocrinology, New Zealand; Professor Kevin O’Byrne, King’s College, London, UK; Professor David Rand, University of Warwick, UK; Professor James Sneyd, University of Auckland, New Zealand. 


11–13 14th IMA Conference on Mathematics of Surfaces, University of Birmingham, United Kingdom. (Sept. 2012, p. 1176)

11–14 The Sixth International Workshop on Differential Equations and Applications, Izmir University of Economics, Izmir, Turkey. (Apr. 2013, p. 515)

12–14 The Algerian-Turkish International Days on Mathematics 2013, Fathi University, Istanbul, Turkey. (May 2013, p. 654)


16–20 Mathematics for an Evolving Biodiversity, Centre de Recherches Mathématiques, Montréal, Canada. (Dec. 2012, p. 1596)


* 19–22 Conference on Applied and Industrial Mathematics - CAIM 2013, Faculty of Mathematics and Computer Science, University of Bucharest, Romania. 

Description: Caim 2013 provides a forum for the review of the recent trends in applied mathematics: mathematical modeling, studies of models coming from industry, biology, economy, etc., either from a qualitative or from a numerical point of view. Since theoretical studies find sooner or later their applicability, the conference has also sections for more theoretical branches of mathematics like algebra or geometry. Computer science communications are welcome. 


* 22–26 18th Annual cum 3rd International Conference of Gwalior Academy of Mathematical Sciences (GAMS), Department of Mathematics Maulana Azad National Institute of Technology, Bhopal, India 462051. 

Description: The academic program of the conference will consist of keynote, plenary and invited talks, and paper presentations in mathematical biology, statistics, air pollution, differential equations, special functions and other allied topics. 

Theme: Mathematical, Computational and Integrative Sciences. 

Call for Papers: Original research papers on recent developments in Mathematical and Computational Sciences are invited for presentation in the conference. Intended participants are invited to send the abstracts (not exceeding 250 words) on or before May 31, 2013. After receiving the acceptance the authors will have to submit full-length papers no later than June 30, 2013. The author will have to follow “Instructions to Authors” as given in the website http://www.gamsinfo.com for the GAMS Journal. All abstracts should be submitted online to the Organizing Secretary. 


23–27 Mathematics of Sequence Evolution: Biological Models and Applications, Centre de Recherches Mathématiques, Montréal, Canada. (Dec. 2012, p. 1596)

* 23–27 Solar Cells, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. 

Description: This is the first workshop in the long program "Materials for a Sustainable Energy Future." The workshop will include a poster session; a request for posters will be sent to registered participants in advance of the workshop. 

Organizing committee: Claudia Draxl (Humboldt-Universität), Jeff Neaton (Lawrence Berkeley Laboratory), and Keith Promislov (Michigan State University, Mathematics). 

Registration: An application and a registration form is available online. 

Application deadline: July 29, 2013. 

Information: http://www.ipam.ucla.edu/programs/msews1/.


Description: The following topics will be presented on the conference: - complex analysis of one variable; - complex analysis of several variables; - complex approximation. 


* 27–28 The twelfth annual Prairie Analysis Seminar, Kansas State University, Manhattan, Kansas. 

Description: The conference features Gui-Qiang Chen, University of Oxford, who will give two one-hour talks, and Mikhail Feldman, University of Wisconsin, Augusto Ponce, Université Catholique de Louvain, and Mónica Torres, Purdue University, who will each give a one-hour talk. There is time scheduled for contributed talks; all participants, especially mathematicians early in their careers, are encouraged to contribute a 20-minute talk. The conference is supported by the NSF and funding is available with priority given to students, postdocs and those early in their careers. 

Organizers: Marianne Korten, Charles Moore, Kansas State University; Estela Gavosto, Rodolfo Torres, University of Kansas 


October 2013

5–6 2013 Fall Southeastern Section Meeting, University of Louisville, Louisville, Kentucky. (Sept. 2012, p. 1176)

7–11 Coalescent Theory: New Developments and Applications, Centre de Recherches Mathématiques, Montréal, Canada. (Dec. 2012, p. 1596)

* 7–11 Differential Geometry and Global Analysis, Leipzig University, Department of Mathematics, Leipzig, Germany. 

Description: International conference, topics include (Pseudo-) Riemannian and conformal geometry, geometry of metric spaces, geometry of differential operators, geometric variational problems, Hamiltonian systems, symplectic geometry and topology. 


Description: This is the sixth annual meeting which traditionally covers a wide spectrum of topics in biomathematics, biology, ecology, biostatistics focused on both education and research. 

Information: http://www.biomath.ilstu.edu/beer.


* 14–18 Fuels from Sunlight, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: This workshop seeks to enhance the quality of research on chemical energy conversion and open new directions. We invite colleagues from materials science, physics, chemistry, chemical engineering, applied mathematics and statistics, and computer science.

Organizing Committee: Rupert Klein (Freie Universität Berlin), Jens Nørskov (Stanford University), and Matthias Scheffler (Fritz-Haber-Institut der Max-Planck-Gesellschaft).

Registration: An application and a registration form are available online.

Application deadline: August 19, 2013.

Information: http://www.ipam.ucla.edu/programs/msews2/.

* 14–18 Topological and Combinatorial Problems in One-dimensional Complex Dynamics, Centro di Ricerca Matematica “Ennio De Giorgi”, Piazza dei Cavalieri 3, Pisa, Italy.

Description: One dimensional complex dynamics involves the usage of many different tools taken from other areas of mathematics. We would like to focus on the interaction of holomorphic dynamical systems with topology on one side, and with combinatorics on the other side. The goal of this workshop is to study these two themes from the threefold viewpoint of local dynamics, dynamics of transcendental maps, and dynamics of rational maps, emphasizing the similarities between these problems in the three settings. This will outline a fairly complete summary of the current topological and combinatorial methods available in the three areas, with the hope of suggesting new applications. Emphasis will be on open problems and interrelations between the two major themes of the workshop.

A side goal is to encourage the participation of graduate students and recent Ph.D.’s in the field.

Registration: On-line registration required. No attendance fee. Support for selected young participants available.


Information: http://www.crm.sns.it/event/271/.

15–19 VII Moscow International Conference on Operations Research (ORM2013), Dorodnicyn Computing Center of RAS (CC of RAS) and Lomonosov Moscow State University (MSU), Moscow, Russia. (May 2013, p. 654)

10–13 Mathematics of Planet Earth 2013 - Pan-Canadian Thematic Program - Sustainability of Aquatic Ecosystem Networks, AARMS, Fredericton, New Brunswick, Canada. (Sept. 2012, p. 1176)


24 3rd IMA Mathematics in Defence, QinetiQ, Malvern, United Kingdom. (May 2013, p. 654)

28–31 Groups, Group Rings, and Related Topics GCRRT 2013, United Arab Emirates University, Al Ain, United Arab Emirates. (May 2013, p. 654)

28–November 9 Lévy Processes and Self-similarity 2013, Tunis, Tunisia. (Feb. 2013, p. 264)

November 2013

2–3 2013 Western Fall Section Meeting, University of California Riverside, Riverside, California. (Sept. 2012, p. 1176)

* 4–8 Batteries and Fuel Cells, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: An energy economy fueled by renewable resources will require significant improvement in existing materials for energy conversion and storage. It is the goal of this workshop to bring together mathematicians, physicists, computer scientists, materials scientists and engineers who work in the area of batteries and fuel cells to spark collaborations across disciplines and seed new interdisciplinary research directions. This workshop will include a poster session; a request for posters will be sent to registered participants in advance of the workshop. An application and registration form are available online.

Application deadline: September 9, 2013.

Information: http://www.ipam.ucla.edu/programs/msews3/.

* 4–8 Biodiversity and Environment: Viability and Dynamic Games Perspectives, Centre de Recherches Mathématiques, Montréal, Canada. (Dec. 2012, p. 1596)

09-16 (NEW DATE) International Conference on Fractals and Wavelets, Rajagiri School of Engineering & Technology Kakkanad Cochin, Kerala, India. (Feb. 2013, p. 264)


11–14 SIAM Conference on Geometric and Physical Modeling (GD/SPM13), The Curtis, A DoubleTree by Hilton Hotel, Denver, Colorado. (May 2013, p. 654)

11–15 Mal’tsev Meeting 13, Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia. (May 2013, p. 654)


12–14 The Second International Conference on Informatics Engineering & Information Science (ICIIE2013), University Technology Malaysia (UTM), Kuala Lumpur, Malaysia. (Dec. 2012, p. 1597)

* 13–15 School on Quantum Ergodicity and Harmonic Analysis (Part III), Philipps University, Marburg, Germany.

Description: This school is aimed at doctoral students and also welcomes more experienced researchers. Its third part will consist of four lecture series: N. Anantharaman: Entropy and the localization of eigenfunctions; J. Hilgert: Introduction to quantum ergodicity and related topics; S. Nonnenmacher: Resonances in chaotic scattering:
a semiclassical gap in terms of topological pressure; R. Schubert: On the rate of quantum ergodicity. This activity is a continuation of events held in Göttingen in January 2013 and in Marburg in September 2012. It can be attended without earlier participation.

Support: Financial support can be provided.


Description: The recent financial crisis raised the specter of cascading disruptions across financial institutions, due to their growing interconnectedness and the speed at which disruptions may propagate across them. Quantitative “Connectionist” research in the physical sciences, engineering and information theory has modeled analogous phenomena, using techniques that are less familiar to economists, financial researchers and regulators and social scientists in general. This conference will bring the seemingly disparate researchers together, in order to share ideas and jump start future collaborations. Early researchers coped with the limited micro-level data about large networks by adopting information-theoretic estimation techniques (e.g., the maximum entropy method). The conference is especially interested in papers employing information-theoretic, Bayesian techniques for additional purposes.


Description: A most effective, though still underestimated, issue in dealing with the energy requirements of modern societies concerns the conservation of energy. It is the goal of this workshop to bring together mathematicians, physicists, computer scientists, materials scientists and engineers who work in the area of energy conservation and waste heat recovery. An application and registration form is available online.

Organizing Committee: Giulia Galli (University of California, Davis), Richard James (University of Minnesota, Twin Cities), Jennifer Lukes (University of Pennsylvania), and Matthias Scheffler (Fritz-Haber-Institut der Max-Planck-Gesellschaft).

Information: http://www.ipam.ucla.edu/programs/msews4/.

18–22 Evolution Problems in General Relativity, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2012, p. 1176)

18–22 ICERM Workshop: Geometric Structures in Low-Dimensional Dynamics, ICERM, Providence, Rhode Island. (Jan. 2013, p. 117)

19–21 Gulf International Conference on Applied Mathematics (GICAM13), Mubarak Al-Abdullah Al-Jaber Area, Kuwait. (Feb. 2013, p. 264)


Description: This conference is organized every three years (starting from 2010) in the region of Latin America and the Caribbean as an official event of the REALMA Network (Réseau Europe-Amérique Latine en Maths Appliquées, http://www.realma.org/) and targets to involve local researchers who have fewer opportunities to attend similar conferences held in Europe and USA.

Main streams: Applied analysis and geometry; applied probability, statistics, and stochastic processes; continuous and discrete dynamic systems; game theory and other economics applications; mathematical epidemiology and biosciences; mathematical geosciences; numerical methods and software tools; operations research, optimization methods and applications; partial differential equations and applications; robotics and mechanical engineering; uncertainty quantification (UQ) and visualization in scientific computing.

Deadline: For abstract submission: June 20, 2013.

Information: http://matematicas.univalle.edu.co/icami/2013/.


Description: The School will introduce and discuss recent trends in the theoretical and computational approaches for the modelling of condensed matter. There will be special emphasis on describing the various ways events at finer scales in both space and time affect the macroscopic behaviour of matter at the macroscopic scales. Topics in continuum mechanics, theory of PDEs, stochastic calculus, and scientific computing will be addressed. The School will be a unique interdisciplinary opportunity to foster interactions among scholars coming from different scientific environments. The list of lecturers is available on the website.

Registration: Is free but participants are requested to register on the website. Some funds will be made available to offer financial support to a number of selected young researchers and students for their participation in the School. Applications can be made online through the website.

Deadlines: For applications for financial support: October 31, 2013. Registration: November 18, 2013.

Information: http://www.crm.sns.it/event/280/.


December 2013

7–8 Infinite-Dimensional Geometry, University of California, Berkeley (740 Evans Hall), California.

Description: The purpose of this workshop is to gather researchers working in various areas of geometry in infinite dimensions in order to facilitate collaborations and sharing of ideas.

Topics: Represented include optimal transport and geometries on densities, metrics on shape spaces, Euler-Arnold equations on diffeomorphism groups, the universal Teichmuller space, geometry of random Riemann surfaces, metrics on spaces of metrics, and related areas.

Funded: By an NSF grant.

Information: http://www.msri.org/web/msri/scientific/workshops/alls-workshops/show/-/event/Wml0168.


*16–18 International Conference on Role of Statistics in the Advancement of Science and Technology, Department of Statistics, University of Pune, Pune, Maharashtra, India.

Description: The Department of Statistics, University of Pune is organizing “Diamond Jubilee Year & International Year of Statistics Conference” to commemorate 60 years of establishment.

Aim: To explore the role of statistics in the advancement of science and technology.

Topics: Statistical inference, inference in stochastic processes, statistical computing, biostatistics, reliability, survival analysis, industrial statistics, actuarial, financial statistics, data mining, probability theory, decision theory, design of experiments, distribution theory, econometrics, multivariate analysis, neural networks, nonparametric inference, operations research, queuing theory, simulation methods, statistical genetics, statistical quality control, survey sampling, time series analysis, etc.
Information: http://stats.unipune.ac.in/Conf13.html
*16–19 International Conference on Advances in Applied Mathematics, Hammamet, Tunisia. Description: The Tunisian Association of Applied Mathematics and Industrial organizes its first conference in Applied Mathematics “ICAAM 2023”. The purpose of this conference is to highlight some of the major theoretical advances and applications in the fields of: Spectral theory, operator theory, optimization, numerical analysis, partial differential equations, ordinary differential equations, control theory, dynamical systems, nonlinear systems and matrix, probability and statistics. Information: http://sites.google.com/site/icaam2013/.

*16–20 Fundamental Groups in Arithmetic and Algebraic Geometry, Centro di Ricerca Matematica Ennio De Giorgi, Pisa, Italy. (Mar. 2013, p. 363)

*16–20 The XXIVth Edition of the International Workshop on Operator Theory and its Applications (IWOTA), Indian Institute of Sciences, Bangalore, India. Description: As usual there will be special sessions at IWOTA 2013. Proposals should be submitted to iwota2013@gmail.com and should contain a brief description of the session and a preliminary list of speakers and tentative lecture titles. We plan to have at least eight special sessions and each session will have between six to eight hours of time. Information: The webpage will soon have information about registration, registration fee, hotel booking etc. There is a rudimentary website at the address http://math.iisc.ernet.in/~iwota2013.

*17–20 Marrakesh International Conference on Probability and Statistics (MICPS-2013), Marrakesh, Morocco. Organizing Committee: M. Eddahbi, K. Es-Sebaiy, I. Ouassou, Y. Ouknine and M. Rachdi. Registration and submission: For all the actions related to the MICPS-2013 (abstract submission, registration, conference fee, etc) please check the conference website. Accommodation/Transportation: Special prices have been arranged with some hotels for MICPS 2013 participants. Information: http://www.ensa.ac.ma/micps2013/; email: k.essebaiy@uca.ma.

18–20 6th Indian International Conference on Artificial Intelligence, Tumkur (near Bangalore), India. (May 2013, p. 655)

*18–21 HiPC 2013: 20th IEEE International Conference on High Performance Computing, Hyderabad, India. Description: You are invited to submit original unpublished research work that demonstrates current research in all areas of high performance computing including design and analysis of parallel and distributed systems, embedded systems, and their applications in scientific, engineering, and commercial areas. All accepted papers will be published in printed conference books/proceedings (ISBN) or on a CD. In addition, please assist in printing the CFP and displaying it on your organization’s message boards. The details of CFP (call for papers) can be found at http://www.hipc.org/hipc2013/papers.php. In addition to technical sessions consisting of contributed papers, the conference will include invited presentations, a student research symposium, tutorials, and vendor presentations in the industry, user and research symposium. Further details about call for student research symposium, workshops, tutorials, and exhibits, as well as submission guidelines are available at the conference website. General Co-Chairs: Badrinath Ramamurthy, HP, India; Rama Govindaraju, Google, California, USA. Vice-General Chair: Jigar Halani, Wipro, India. Deadline: Paper submission: May 16, 2013. Information: http://www.hipc.org.

*21–22 The International Congress on Science and Technology, Allahabad, U.P., India. Description: The ICST-2013 is organized by the CWS, a non-profit society for the scientists and the technocrats and will take place in Allahabad, U.P., INDIA, from Dec. 21-22, 2013. The conference has the focus on the current trends on frontier topics of the science and technology (Applied Engineering) subjects. The ICST conferences serve as good platforms for our members and the entire science and technological community to meet with each other and to exchange ideas. Information: http://sites.google.com/site/intcongressonscandtech/.

*21–23 7th International Conference of IMBIC on “Mathematical Sciences for Advancement of Science and Technology” (MSAST 2013), Hotel Indismart, Kolkata, India. Description: The main objective of the conference is to bring specialized topics in mathematics, statistics, computer science, information technology, bioinformatics and closely related interdisciplinary areas to the forefront. Original full papers are invited. All papers are to be screened and accepted papers will be published in the Proceedings of IMBIC, Volume 2 (2014), having ISBN 978-81-925832-1-1, except for a few full scientific papers of high quality, which may be published in the highly acclaimed series of monographs of IMBIC in Volume 2 (2014). Contact: All correspondence in respect to the conference is to be addressed to Dr. Avishek Adhikari, Convener MSAST 2013 & Secretary, IMBIC; email: msast.paper@gmail.com; http://www.isical.ac.in/~avishek_r/.


January 2014

5–7 ACM-SIAM Symposium on Discrete Algorithms (SODA14), being held with Analytic Algorithmics and Combinatorics (ANALCO14) and Algorithm Engineering and Experiments (ALENEX14), Hilton Portland & Executive Tower, Portland, Oregon. (Dec. 2012, p. 1597)

*6–10 Mathematics of Social Learning, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. Description: The goal of this workshop is to bring together mathematicians, physicists, and social, information, and computer scientists to explore the dynamics of social learning and cultural evolution. Of particular interest will be ways of using data from social media and online experiments to address questions of interest. Deadline: An application and registration form is available online. Application deadline: November 11, 2013. Information: http://www.ipam.ucla.edu/programs/s12014/.


16–18 Mathematical Challenges in Ophthalmology, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. Description: Ophthalmology has become increasingly subspecialized and technologically advanced, making it impossible to be an expert in every area and highlighting the need for multi-disciplinary collaborations with engineers and mathematicians. The goal of this workshop is to encourage communication between engineers, mathematicians, scientists, and clinicians to improve patient care.
March 2014

* 20–23 International Conference on Recent Advances in Mathematics (ICRAM 2014), Department of Mathematics, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Maharashtra State, India.

Description: The conference schedule includes plenary talks, invited talks on current areas of research followed by a large number of paper and poster presentations.

Aim: The main aim of the conference is to promote, encourage, discuss the latest developments and research in the field of Mathematics and its applications and bring together researchers in the different fields. The conference is broad-based on (i) pure mathematics, algebra, algebraic geometry, mathematical analysis, number theory, numerical analysis & scientific computing, topology and differential equations, operations research and statistics (iii) mathematical physics, general relativity and cosmology, high energy physics, quantum mechanics.


* 20–24 An international symposium on orthogonality and quadrature (ORTHOQUAD 2014), Puerto de la Cruz, Tenerife, Canary Islands, Spain.

Description: This is an international conference in memory of Prof. Dr. Pablo González Vera, Professor of Applied Mathematics at the University of La Laguna (Canary Islands), who passed away on July 11, 2012. Professor González Vera was a recognized specialist in approximation theory, orthogonal polynomials and quadrature formulae, and was author of more than one hundred fifty papers published in prestigious international journals in the area of applied mathematics. He also wrote several books, among which specially stands "Orthogonal Rational Functions", published by Cambridge University Press, and written in collaboration with Adhemar Bultheel (KU Leuven, Belgium), Erik Hendriksen (Netherlands) and Olav Njastad (Univ. of Trondheim). In this sense, the main topics of the conference will be orthogonality and quadrature, but other topics in approximation theory, special functions and related issues are also within the scope of the conference.

Information: http://gama.uc3m.es/pablo/.

* 20–24 ICERM Topical Workshop: From the Clinic to Partial Differential Equations and Back: Emerging challenges for Cardiovascular Mathematics, ICERM, Providence, Rhode Island.

Description: Mathematical models have been giving remarkable contributions in advancing knowledge and supporting decisions in several branches of medicine. The goal of this workshop is to foster collaboration between mathematicians and medical doctors on modeling cardiovascular system. It will organized into two lines: “Core topics” are up-to-date research areas in mathematics and scientific computing that still present several open exciting challenges, which can require developing new numerical models, computational approaches and validation techniques; “New challenges” are a set of cardiovascular (in broad sense) problems and diseases that have not been attacked extensively with numerical tools. The workshop will be based on round-table discussions in smaller groups and lectures.

Information: http://icerm.brown.edu/tw14-1-pdecn.

February 2014

* 3–7 Introductory Workshop: Model Theory, Arithmetic Geometry and Number Theory, Mathematical Sciences Research Institute, Berkeley, California. (Nov. 2012, p. 1482)

* 3–May 9 ICERM Semester Program on “Network Science and Graph Algorithms”, ICERM, Providence, Rhode Island. (Jan. 2013, p. 117)

* 10–11 Connections for Women: Model Theory and its interactions with number theory and arithmetic geometry, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2012, p. 1177)

* 10–14 ICERM Workshop: Semidefinite Programming and Graph Algorithms, ICERM, Providence, Rhode Island.

Description: Semidefinite programming is playing an ever increasing role in many areas of computer science and mathematics, including complexity theory, approximation algorithms for hard graph problems, discrete geometry, machine learning, and extremal combinatorics. This workshop will bring together researchers from these different fields. The goal is to explore connections, learn and share techniques, and build bridges.

Information: http://icerm.brown.edu/sp-s14-w1.

* 10–14 Translating Cancer Data and Models to Clinical Practice, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: This workshop will emphasize an integrated approach to understanding cancer initiation, progression, metastasis, and treatment. Proposed participants will include a number of clinicians and experimentalists whose approach and research may complement and motivate new mathematical and physical modeling, as well as empirical or clinical investigations. Our ultimate goals will be to critically examine and discuss approaches for improving clinical standards of care, and to foster new investigative directions in applied cancer research that involve the right level of detail in emerging mathematical and physical approaches. An application and registration form are available online.


* 24–28 Stochastic Gradient Methods, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California.

Description: This workshop will address various topics in the theory, implementation, and practice of SG methods, possibly including the following: applications to nonconvex problems and regularized objectives; parallel implementations; hybridization of SG methods with other optimization techniques; and use of SG methods in deep learning.


* 20–23 Model Theory and Number Theory, Mathematical Sciences Research Institute, Berkeley, California. (Sept. 2012, p. 1177)


Description: The theory of rough paths has established itself as a powerful tool to analyze a variety of stochastic systems that are too “rough” for their solutions to exist in the class of functions that can be handled by classical analytical methods. The power of the theory resides in its ability to cleanly separate the probabilistic components from their purely analytic aspects. Recently, the theory has seen an explosion of new results that caused its scope to expand considerably. This workshop will bring together experts in the theory of rough paths with researchers working in related areas of mathematics (probability, PDEs/SPDEs, analysis, etc) and sciences in general. An application and registration form are available online.

Information: http://www.ipam.ucla.edu/programs/rp2014/.
Mathematics Calendar

learning, latent variable models, and other settings. An application and registration form are available online.

Information: http://www.ipam.ucla.edu/programs/sgm2014/.

March 2014
* 3-7 AIM Workshop: Postcritically finite maps in complex and arithmetic dynamics, American Institute of Mathematics, Palo Alto, California.
Description: This workshop, sponsored by AIM and the NSF, will be devoted to questions relating to postcritically finite (PCF) rational maps.
Information: http://www.aimath.org/ARCC/workshops/finite_dynamics.html.

* 4-7 11th German Probability and Statistics Days 2014 - Ulmer Stochastik-Tage, University Ulm, Ulm, Germany.
Description: The venue is at the University of Ulm. In the tradition of the previous conferences, this meeting provides an international forum for presentation and discussion of new results in the area of probability and statistics.

Speakers: The plenary speakers of the conference will be: Jianqing Fan (Princeton), Geoffrey Grimmet (Cambridge), Jean-François Le Gall (Paris), Alexandre Tsybakov (Paris). Contributed talks will be given in 17 sections devoted to specific topics; the highlight of each section will be one invited main talk. Over the last years, the “Stochastik-Tage” organized biannually have been attracting an increasing number of participants from abroad.
Language: English.

10-26 School and Workshop on Classification and Regression Trees, Institute for Mathematical Sciences, National University of Singapore, Singapore. (May, 2013, p. 655)

* 17-21 ICERM Workshop: Stochastic Graph Models, ICERM, Providence, Rhode Island.
Description: Random graphs, stochastic processes on graphs and algorithms for computations on these structures continue to play a dominant role in algorithmic research and discrete mathematics, with recent applications ranging from web search and recommendation engines to social networks and system biology. This workshop will be an opportunity for researchers from diverse fields to get together and share problems and techniques for handling and analyzing graphs structures. The connections—mathematical, computational, and practical—that arise between these seemingly diverse problems and approaches will be emphasized.
Information: http://icerm.brown.edu/sp-s14-w2.

* 21-23 Sectional Meeting, University of Tennessee, Knoxville, Knoxville, Tennessee.
Description: 2014 Southeastern Spring Sectional Meeting.


* 29-30 Sectional Meeting, University of Maryland, Baltimore County, Baltimore, Maryland.
Description: 2014 Spring Eastern Sectional Meeting.

31-April 3 SIAM Conference on Uncertainty Quantification (UQ14), Hyatt Regency Savannah, Savannah, Georgia. (Dec. 2012, p. 1597)

April 2014
* 5-6 Sectional Meeting, University of New Mexico, Albuquerque, New Mexico.
Description: 2014 Western Spring Sectional Meeting.

* 7-11 AIM Workshop: The many facets of the Maslov index, American Institute of Mathematics, Palo Alto, California.
Description: This workshop, sponsored by AIM and the NSF, will be devoted to the Maslov index, a collective name for many related invariants counting the jumps of functions, starting in the 19th century with the principal value of the complex logarithm.

* 7-11 ICERM Workshop: Electrical Flows, Graph Laplacians, and Algorithms: Spectral Graph Theory and Beyond, ICERM, Providence, Rhode Island.
Description: Spectral graph theory, which studies how the eigenvalues and eigenvectors of the graph Laplacian and other related matrices interact with the combinatorial structure of a graph, is a classical tool in both the theory and practice of algorithm design. The success of this approach has been rooted in the efficiency with which eigenvalues and eigenvectors can be computed and in the large number of ways that a graph’s properties are connected to the Laplacian’s spectrum, particularly to the value of its second smallest eigenvalue $\lambda_2$. While the eigenvalues and eigenvectors of the Laplacian capture a striking amount of the structure of the graph, they do not capture it all. Recent work suggests that we have only scratched the surface of what can be done if we are to broaden our investigation to include more general linear-algebraic properties of the matrices we associate to graphs. The workshop will bring researchers together to study and advance this emerging frontier in algorithmic graph theory.
Information: http://icerm.brown.edu/sp-s14-w3.

7-11 Reimagining the Foundations of Algebraic Topology, Mathematical Sciences Research Institute, Berkeley, California. (May 2013, p. 719)

* 11-13, 2014 Sectional Meeting, Texas Tech University, Lubbock, Texas.
Description: 2014 Spring Central Sectional Meeting.


May 2014

12-14 SIAM Conference on Imaging Science (IS14), Hong Kong Baptist University, Hong Kong, China. (Aug. 2012, p. 1021)

* 12-16 ICERM Topical Workshop: Robust Discretization and Fast Solvers for Computable Multi-Physics Models, ICERM, Providence, Rhode Island.
Description: This workshop will gather together experts in the core related fields in applied and computational mathematics to exchange ideas regarding the development of robust and efficient numerical schemes that preserve the key physics of these models, and to study the development of fast and efficient linear and nonlinear solvers that are scalable and optimal. This workshop will also target young researchers and members of under-represented groups to help launch their research in this area.
Information: http://icerm.brown.edu/tw14-2-cmpm.

12-16 Model Theory in Geometry and Arithmetic, Mathematical Sciences Research Institute, Berkeley, California. (June/July 2012, p. 870)
* 19–23 **Representations of reductive groups**: A conference dedicated to David Vogan on his 60th birthday, MIT, Cambridge, Massachusetts.

**Description:** The conference will address recent developments in the representation theory of reductive Lie groups and algebraic groups over finite and local fields, as well as connections of this theory with other subjects, such as number theory, automorphic forms, algebraic geometry and combinatorics. It will be an occasion to celebrate the 60th birthday of David Vogan, who has inspired and shaped the development of this field for almost 40 years.

**Information:** [http://math.mit.edu/conferences/Vogan/](http://math.mit.edu/conferences/Vogan/).

* 26–29 **VI Workshop on Dynamical Systems**: On the occasion of Marco Antonio Teixeira’s 70th birthday (MAT70), Campinas, SP, Brazil.

**Description:** In 2014 we wish to celebrate Marco Antonio Teixeira’s 70th birthday and his significant mathematical contribution. With this in mind, we wish to honor him with a Scientific Conference.

**Information:** [http://www.mat70.com/](http://www.mat70.com/).

**Constructive Functions 2014**, Vanderbilt University, Nashville, Tennessee. (May 2013, p. 655)

* 28–30 **IWCA 2014 - 16th International Workshop on Combinatorial Image Analysis**, Brno University of Technology, Technická 2, Brno, Czech Republic.

**Description:** The 16th International Workshop on Combinatorial Image Analysis will be hosted by the Brno University of Technology, Faculty of Mechanical Engineering. The researchers from all areas of image analysis and its applications are cordially invited to participate.


**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.**

### June 2014


**Description:** This workshop, sponsored by AIM and the NSF, will focus on the many interesting questions that remain about the interaction between estimates for solutions of the Cauchy-Riemann equations and the behavior of the Bergman kernel associated to the given norm.

**Information:** [http://www.aimath.org/ARCC/workshops/crsccv.html](http://www.aimath.org/ARCC/workshops/crsccv.html).


**Invited speakers:** Filippo Bracci, Universita di Roma “Tor Vergata”, Italy; James Brennan, University of Kentucky, Kentucky; Yuriii Lyubarskii, NTNU, Trondheim, Norway; Alexander Olevskii, Tel Aviv University, Israel; Tatiana Smirnova-Nagnibeda, Universite de Geneve, Switzerland.

**Information:** You can find further information about the courses at [http://congreso.us.es/ceacyto/2013](http://congreso.us.es/ceacyto/2013). Apart of attending the course, you may also have the opportunity to deliver a contributed talk.

* 23–25 **17th Conference on Integer Programming and Combinatorial Optimization (IPCO 2014)**, University of Bonn, Bonn, Germany.

**Description:** The IPCO-conference is a forum for researchers and practitioners working on various aspects of integer programming and combinatorial optimization. The aim is to present recent developments in theory, computation, and applications in these areas.

**Information:** [http://www.or.uni-bonn.de/ipco/](http://www.or.uni-bonn.de/ipco/).


**Description:** This conference will celebrate the profound influence of Bill Thurston’s work on the entire mathematical community. Thurston made fundamental contributions to topology, geometry, and dynamical systems. But beyond these specific accomplishments he introduced new ways of thinking about and of seeing mathematics. He discovered connections between disciplines which led to the creation of entirely new fields. The goal of this meeting is to bring together mathematicians from a broad spectrum of areas to describe recent advances and explore future directions motivated by Thurston’s transformative ideas.

**Organizers:** Dave Gabai, John Hubbard, Steve Kerckhoff, John Smillie, DylanThurston and Karen Vogtmann.

**Information:** [http://www.math.cornell.edu/~festival](http://www.math.cornell.edu/~festival).

#### July 2014


**Description:** This workshop, sponsored by AIM and the NSF, will be devoted to the Mori program for Brauer log pairs in dimension three.

**Information:** [http://www.aimath.org/ARCC/workshops/moribrauerlog.html](http://www.aimath.org/ARCC/workshops/moribrauerlog.html).

#### August 2014

* 4–9 **10th International Conference on Clifford Algebras and their Applications in Mathematical Physics (ICCA10)**, University of Tartu, Tartu, Estonia.

**Description:** The aim of the ICCA10 is to bring together the leading scientists in the field of Clifford algebras, differential geometry and their various applications in mathematics, physics, engineering and other applied sciences. We invite you to participate in the exchange of the latest results in research and application.

**Information:** [http://icca10.ut.ee](http://icca10.ut.ee).

* 11–14 **SIAM Conference on Nonlinear Waves and Coherent Structures (NW14)**, Churchill College, University of Cambridge, Cambridge, United Kingdom.

**Description:** The call for submissions will be linked from [http://www.siam.org/meetings/nw14/](http://www.siam.org/meetings/nw14/) in October 2013.

**Information:** [http://www.siam.org/meetings/nw14/](http://www.siam.org/meetings/nw14/).

#### September 2014

* 20–21 **Sectional Meeting**, University of Wisconsin-Eau Claire, Eau Claire, Wisconsin.

**Description:** 2014 Central Fall Section Meeting.

**Information:** [http://www.ams.org/meetings/sectional/sectional.html](http://www.ams.org/meetings/sectional/sectional.html).

#### October 2014

* 18–19 **Sectional Meeting**, Dalhousie University, Halifax, Canada.

**Description:** 2014 Fall Eastern Sectional Meeting.

**Information:** [http://www.ams.org/meetings/sectional/sectional.html](http://www.ams.org/meetings/sectional/sectional.html).

* 25–26 **Sectional Meeting**, San Francisco State University, San Francisco, California.

**Description:** 2014 Fall Western Section Meeting.

**Information:** [http://www.ams.org/meetings/sectional/sectional.html](http://www.ams.org/meetings/sectional/sectional.html).

#### November 2014

* 8–9 **Sectional Meeting**, University of North Carolina, Greensboro, North Carolina.

**Description:** 2014 Fall Southeastern Section Meeting.

**Information:** [http://www.ams.org/meetings/sectional/sectional.html](http://www.ams.org/meetings/sectional/sectional.html).