

Mathematics Calendar

Please submit conference information for the Mathematics Calendar through the Mathematics Calendar submission form at www.ams.org/cgi-bin/mathcal-submit.pl. The most comprehensive and up-to-date Mathematics Calendar information is available on the AMS website at www.ams.org/mathcal/.

August 2015

* 3-5 **Workshop on Generalized Convexity and Set Computation**, Imperial College London, London, United Kingdom.

Description: The concept of generalized convexity can be regarded as a means to describe subsets of a Hilbert space in terms of generalized support functions. This representation seems promising from a theoretical as well as from a computational perspective, but its use for the characterization of set evolutions and set computation has not been examined. The idea behind this relatively small and specialized workshop is therefore to bring together experts for standard approaches to set computation, from generalized convexity and from bilevel optimisation to exchange ideas and assess in which way set computation can benefit from generalized convexity.

Information: wwwf.imperial.ac.uk/~mrasmuss/gcsc/

* 3-7 **Workshop on Invariants of Knots, Surfaces and 3-Manifolds**, Gazi University, Ankara, Turkey.

Description: The Workshop (August 3-7, 2015) precedes the Conference Invariants in Low Dimensional Geometry (August 10-14, 2015). Both are designed to bring together researchers and students working in low dimensional geometry and topology. The Workshop will consist of 6 short courses by an international team of experts in geometric, topological, arithmetic, group theoretic and quantum aspects of geometric topology. Lecturers BoGwang Jeon - Columbia University, Mustafa Korkmaz - Middle East Technical University, Kate Petersen - Florida State University, Saul Schleimer - Warwick Mathematics Institute, Mehmet Haluk Sengun - University of Sheffield, and Roland van der Veen - University of Amsterdam

Information: www.geometry-summer-school.gazi.edu.tr/

* 4-5 **Industrial Short Course: Robust Modeling in Process Optimization**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA.

Description: IPAM together with the German companies CiT, 8Berlin, and the Research Campus MODAL offers a two-day short course on introduction to the mathematical theory regarding uncertainty quantification, parameter estimation and model selection and validation. The resulting algorithms are discussed and applied to realistic

examples from industrial research. The short course is for participants with scientific and technical background in the field of calibration or validation of mathematical models or model-driven data analysis in modelling, simulation and optimization of chemical processes. It is aimed at participants from the Chemical and Polymer Industry, Oil Industry, Pharma and Biotech Industry, Water Supply and Food Production. Topics will be adjusted depending on the exact interests of the participants. The number of participants will be limited to 20.

Information: www.ipam.ucla.edu/isc2015

* 4-6 **Summer School on Nonsmooth Dynamical Systems**, The University of Texas at Dallas, Richardson, Texas.

Description: The three courses of the school will describe modern tools that help understanding the dynamics of Elliptical Billiards, Switched Systems, and Hysteresis Phenomena. The elliptical billiards provide instructive examples of integrable systems; their dynamical properties follow from the geometry of pencils of conics and the arithmetic of related elliptic curves. The switched systems component will be centered around bifurcation theory, which proved to be a powerful tool in predicting limit cycles in anti-lock braking systems, passive walking robots, and other engineering models. Finally, the school will cover the infinite-dimensional operator framework required to model hysteresis phenomena that are common in plasticity, magnetism, friction, sorption, phase transitions, smart materials, biology and economics. Limited financial support is available for undergraduate and master students.

Information: www.utdallas.edu/ds2015/

* 10-14 **D-Modules in Commutative Algebra**, GIMAT, Guanajuato, Mexico.

Description: The theory of D-modules has become an indispensable tool in commutative algebra. Since its initial use to study local cohomology, D-modules have been used to study tight closure, F-jumping coefficients, hyperplane arrangements, Nakai conjecture, and in other commutative algebra contexts. On the other hand, these applications have also motivated important developments in the theory of D-modules itself. Some D-module-theoretic results that used to be known only in characteristic zero have been extended to

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 the Editors of the *Notices* at 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*. New information about meetings and conferences that will occur beyond the current 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 given twelve-month period. **The Mathematics Calendar**, as well as Meetings and Conferences of the AMS, is now available through the AMS website: www.ams.org/.

positive characteristic. In addition, Eulerian graded D-modules were introduced to study the graded structure of local cohomology modules of a polynomial ring over a field. Despite this progress, many questions remain open. This conference intends to expose commutative algebraists to techniques and new advancements in the world of D-modules, to bring experts in D-modules and in commutative algebra together to share ideas and develop collaborations in this area, and to increase awareness.

Information:

sites.google.com/site/dmodulesincommutativealgebra/home

- * 10-14 **Invariants in Low Dimensional Geometry**, Gazi University, Ankara, Turkey.

Description: The conference entitled “Invariants in Low Dimensional Geometry,” to be held on August 10-14, 2015, at Gazi University in Ankara, Turkey.

Conference Organizers: Abhijit Champanerkar (CUNY), Baki Karliga (Gazi University), Ilya Kofman (CUNY), Feng Luo (Rutgers University), Walter Neumann (Columbia University), and Murat Savas (Gazi University).

Information: www.math.csi.cuny.edu/abhijit/turkey2015/

- * 13-14 **Illinois Number Theory Conference**, University of Illinois at Urbana-Champaign, Urbana, Illinois.

Description: A Number Theory Conference featuring a variety of topics in number theory will take place at the University of Illinois at Urbana-Champaign on August 13-14, 2015. About fifteen invited talks and more contributed talks are planned. This meeting continues a long tradition of conferences organized by the Number Theory group in the Department of Mathematics. Funding to defray travel costs for graduate students and junior faculty with no travel funding of their own is available. Also available is exceptional funding for women with young children for whom it is difficult to attend due to child-care issues. Please see conference website for details.

Information: math.uiuc.edu/nt2015

- * 17-21 **Workshop on Algebraic Groups and Lie Algebras**, Bonne Bay Marine Station of Memorial University of Newfoundland in Norris Pont, Newfoundland, Canada.

Description: This workshop is the continuation of joint activity between the Atlantic Algebra Centre and the Network of Ontario Lie Theorists. This time we focus on the interrelations and various connections between the Lie theory and algebraic groups as well as on its applications to representation theory, graded algebras, superalgebras and quantum groups. We plan to attract about 25-30 participants from different countries. The schedule of the workshop will include several mini-courses given by leading experts addressed at young researchers, postdocs and graduate students, as well as research talks and short communications given by graduate students and postdocs.

Information: www.mun.ca/aac/Workshops/NextWork/AGLA2015.php

- * 17-28 **George Boole Mathematical Sciences Conference**, University College Cork, Cork, Ireland.

Description: In honour of George Boole’s bicentenary. Thematic sessions: (1) Quantum Information Theory (August 17-20); (2) Boole’s algebra; Boolean algebra (August 27-28); (3) Complex and Boolean Networks (August 24-26); (4) Geometry and Visualization (August 26-28); (5) Harmonic Analysis (August 19-22); (6) Invariants from Moduli Spaces (August 24-27); (7) Mathematical Financial Modelling Post-Crisis (August 25-28); (8) Quantum Probabilistic Symmetries and Quantized Boolean Algebras (August 20-25); (9) Annual Meeting of the Irish Mathematical Society (August 27-28); (10) Domains XII Conference (August 25-28); (11) iRISC Consortium Meeting (August 31, 2015); (12) Boole meets Shannon Workshop (September 1-2, 2015)

Information: georgeboole.com/events/conferences/george-boole-mathematical-sciences-conference.html

- * 18-23 **Tenth Summer School on Potential Theory**, Alfred Renyi Institute of Mathematics, Budapest, Hungary.

Description: The summer school is suitable for graduate and doctoral students, postdocs and researchers with an interest in potential theory. The aim of the summer school is to cover as large a part of the multifaceted theory as possible, by courses and lectures emphasizing the tutorial aspects and not merely the presentation of current personal achievements.

Information: www.renyi.hu/conferences/sspt

September 2015

- * 1-4 **Some Trends in Algebra 2015**, Fac. Math. Phys., Charles University, Prague 8, Karlin, Czech Republic.

Description: A conference on module theory and its relations to algebraic geometry, category theory, commutative algebra, homotopy theory, logic, and representation theory.

Information: www.karlin.mff.cuni.cz/~sta/sta15.html

- * 8-12 **Mathematical Approaches for Traffic Flow Management Tutorials**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA.

Description: The long program opens with four days of tutorials that will provide an introduction to major themes of the entire program and the four workshops. The goal is to build a foundation for the participants of this program who have diverse scientific backgrounds.

Topics:

- A tutorial on estimation, including particle filtering, Kalman filtering, and model filtering.
- An introduction to traffic flow on networks.
- A primer on ramp metering, traffic signal, and/or variable speed limit control.
- A tutorial on utilizing new (and big) datasets.

Registration for tutorials is free, to encourage broad participation. The application for funding deadline is July 15, 2015.

Information: www.ipam.ucla.edu/tratut

- * 10-12 **International Conference on Special Functions and Applications - ICSFA 2015**, Amity University, Noida, India.

Description: International Conference on Special Functions and Applications - ICSFA 2015 is the XIVth Annual Meeting of the Society for Special Functions and their Applications. The three-day conference ICSFA-2015 aims to bring together the researchers working in the area of Special Functions and related areas for interaction and exchange of ideas. In addition, it will inspire young researchers to pursue research in this important branch of Mathematical sciences. The Academic program of the conference will consist of Plenary sessions, Invited Talks and Paper Presentations covering a wide range of topics including Special Functions, Hypergeometric function and its generalizations, Orthogonal polynomials, Lie theoretic approach to Special function, Ramanujan Mathematics, Fractional calculus, Combinatorics, Number theory, q -series and continued fractions, complex function theory, applications of special functions to Statistics, Physical sciences and Engineering.

Information: ssfaindia.webs.com/conf.htm

- * 14-15 **The 2015 International Conference on Mathematics, its Applications, and Mathematics Education (ICMAME 2015)**, Sanata Dharma University, Yogyakarta, Indonesia.

Description: The 2015 International Conference on Mathematics, its Applications, and Mathematics Education (ICMAME 2015) is conducted to bring together mathematicians and other scientists working on new trends of mathematics, physics, its applications and also in mathematics education. The aim of this conference is to promote research interests in different fields of mathematics, physics as well as in mathematics education. The scientific program will include invited lectures and contributed talks.

Information: www.icmame.org

* 14–18 **Summer School on Thermodynamic Formalism and Transfer Operator Method**, University of Göttingen, Institute of Mathematics, Bunsenstr. 3-5, D-37073 Göttingen, Germany.

Description: This is the first event of a new series of summer schools on dynamical approaches in spectral geometry. It will discuss Thermodynamic Formalism and Transfer Operator Method, a field which has produced in recent years a lot of new results of interest in mathematical physics (quantum chaos), spectral geometry, harmonic analysis and number theory. The main speakers are: Oscar Bandtlow (Queen Mary London), Frédéric Naud (Avignon), Anke Pohl (Göttingen), and Julia Slipantschuk (Queen Mary London).

Information: www.uni-math.gwdg.de/Spirit2015

October 2015

* 30–November 1 **Meeting of the History and Pedagogy of Mathematics, Americas Section**, University of Massachusetts, Amherst, Massachusetts.

Description: HPM-Americas is pleased to announce a meeting Friday afternoon through Sunday morning, October 30 to November 1, 2015, at the University of Massachusetts, Amherst. Amherst is located just off Rte. 91, and north of the Mass Pike. Amherst is accessible from the Hartford airport (50 minutes) and the Boston and Albany airports (each about 2 hours). A shuttle is available from the Hartford and Boston airports through Valley Transporter. Peter Pan bus lines runs from Boston, New York, and DC to the UMass campus. The nearest Amtrak station is in Northampton, which is about 10 miles from Amherst and on public transportation. We seek a variety of talks on relations between the history and pedagogy of mathematics. Talks on experience with using history in mathematics classrooms are especially encouraged. Talks seeking comment on untested ideas for using history to teach mathematics are also welcome. Talks will be about 25 minutes long, followed by abundant time for discussion. Abstracts of proposed talks need to be received by September 1, 2015.

Information: Abstracts and registrations can be submitted via www.hpm-americas.org.

November 2015

* 5–6 **Workshop on q -Calculus and its Applications**, Universidad de Cundinamarca, Sede Principal Fusagasuga, Cundinamarca, Colombia.

Description: The aim of this mathematical meeting is to gather a group of people interested in studying and applying techniques from q -calculus to any branch of mathematics and science. Among the topics of interest we include quantum groups, q -probabilities, combinatorial q -analogues, Rota-Baxter q -algebras, categorification of q -calculus, knot theory, q -differential equations, q -deformations of algebras, Weyl q -algebras, Hecke algebras, Gaussian q -distribution.

Information: sites.google.com/site/workshopqcalculus/

* 6–8 **Ninth Annual Mathematical Field of Dreams Conference**, Sheraton Birmingham Hotel, Birmingham, Alabama.

Description: The National Alliance for Doctoral Studies in the Mathematical Sciences is pleased to announce the Ninth Annual Mathematical Field of Dreams Conference. This year the conference will be held at the Sheraton Birmingham Hotel located in Downtown Birmingham, Alabama. The Conference brings together faculty in the mathematical sciences with students from backgrounds underrepresented in those fields. This will be an exciting weekend that will provide something for everyone.

Information: mathalliance.org/?page_id=6154

* 9–11 **Equilibrium and Optimization Methodology in Finance and Economics (ICEOMFE 2015)**, King Saud University, Riyadh, Saudi Arabia.

Description: The main aim of this conference is to bring together leading experts and researchers in mathematical modeling to assess new developments in optimization and equilibria methodology and their applications to Mathematical Finance and Economics. The conference will focus on the following areas:

- Iterative Methods in Optimization and Fixed Point Theory
- Equilibrium theory
- Financial Markets
- Actuarial Mathematics

Keynote Speakers: B. Cornet (France), R. T. Rockafellar (USA), H. M. Soner (Switzerland), Hong-Kun Xu (China), Michel Thera (France).

Invited Speakers: H. Ben-El Mechaiekh (Canada), J-M. Bonnisseau (France), Alain Chateaufneuf (France), P. Gourdel (France), A. Jofre (Chile), C. Le Van (France), A. Khan (Saudi Arabia), V. Radulescu (Romania), J. Sun (Australia).

Local Organizer: Souhail Chebbi (schebbiu@KSU.EDU.SA).

Information: npst.ksu.edu.sa/en/iceomfe/about

* 10–11 **ICMCS 2015 - International Conference on Mathematics and Computer Science**, Conference Hall Grand Hotel, Vienna, Austria.

Description: The aim of the conference is to promote research in the field of Mathematics and Computer Science. Another goal is to facilitate exchange of new ideas in these fields and to create a dialogue between scientists and practitioners.

Keynote Speaker: Professor of Pace University—Bel G. Raggad.

* 14–17 **IEEE Call for Papers**, The IEEE International Conference on Data Mining series Atlantic City, NJ.

Description: (ICDM) has established itself as the world's premier research conference in data mining. Paper submissions for the conference should be limited to a max of ten (10) pages in the IEEE 2-column format (templates available at www.ieee.org/conferences_events/conferences/publishing/templates.html), including the bibliography and any possible appendices. Manuscripts must be submitted electronically (wi-lab.com/cyberchair/2015/icdm15/cbc_index.php). Author names and affiliations must not appear in the submissions, and bibliographic references must be adjusted.

Important Dates:

* Full paper submissions: June 3, 2015

* Demo and tutorial proposals: July 13, 2015

* Conference paper, tutorial, demo notification: August 25, 2015

* Workshop paper submissions: August 28, 2015

* Workshop paper notifications: September 25, 2015

Information: www.ieee.org

December 2015

* 7–11 **BioInfoSummer 2015**, The University of Sydney, Sydney, Australia.

Description: Bioinformatics, is an exciting, fast-moving area of analysing and simulating the structures and processes of biological systems. BioInfoSummer provides bioinformatics training to students, researchers and others working in related areas. The 2015 event includes both specialist lectures and hands on introductory and advanced computer workshops. Topics discussed will include: Introduction to Biology and Bioinformatics, Epigenomics, Translational Genomics, Proteomics and Metabolomics, Systems Biology, Networks and Data Integration.

Information: bis15.amsi.org.au/

* 16–18 **Stochastic Limit Analysis for Reacting Particle Systems**, Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany.

Description: The workshop aims to present and facilitate discussion of approaches to systems of many particles, which at some level of modelling undergo spatial motion and stochastically interact when they collide or at least get very close. Classic applications of such systems include gas dynamics, particle coagulation and chemical reactions, but zoological and other application areas will also be considered. Alongside strong law of large numbers type results the workshop will showcase methods for obtaining further information to complement a characteristic limiting equation.

Information:

www.wias-berlin.de/workshops/ReactingParticles/

* 17–19 **International Workshop on Calculus of Variations and its Applications on the Occasion of Luisa Mascarenhas' 65th Birthday**, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Caparica, Portugal.

Description: The aim of the workshop is both to bring together experts on Calculus of Variations and its applications, promoting the exchange of ideas and attracting young scientists to the field, and also to honor Professor Luisa Mascarenhas, recently retired, for her contribution to Science. The workshop will take place at Faculdade de Ciências e Tecnologia, Campus de Caparica. There will be several talks by eminent researchers covering a wide range of methods to treat problems in Engineering, Mechanics and Life Sciences. Several of the invited speakers have directly collaborated with Professor Luísa Mascarenhas. Besides the lectures delivered by the invited speakers, we also plan to have a restricted number of contributed talks and a poster session.

Information: eventos.fct.unl.pt/cvamascar/

* 17–19 **National Conference on Emerging Trends in Mathematics and Mathematical Sciences (NCETMMS-2015)**, Calcutta Mathematical Society, Asutosh Bhavan, AE-374, Sector-I, Salt Lake City, Kolkata-700064, West Bengal, India.

Description: The Calcutta Mathematical Society (CMS) was founded in 1908 under the image of the London Mathematical Society. It is one of the oldest learned societies of its kind in Asia and had a long-standing association with many illustrious mathematicians and scientists. The main objective of NCETMMS-2015 is to bring together young and senior researchers and scientists in the fields of various branches of Mathematics and sciences which are considerably dependent on Mathematics. This will provide a platform where scientists can exchange their views and share their experiences regarding the latest developments in their respective fields of specialization. The thrust areas are:

- i) Analysis
- ii) Algebra
- iii) Geometry and Relativity
- iv) Dynamical Topology
- v) Computational Fluid Dynamics
- vi) Astrophysics and Space Science
- vii) Ecology and Environment
- viii) Information Theory
- ix) Plasma and Magneto Hydrodynamics.

Deadline for receiving abstract August 31, 2015.

Information: www.calmathsoc.org

* 21–23 **7th WMVC-2015 (A National Conference on Wave Mechanics and Vibrations)**, Indian School of Mines, Dhanbad, India.

Description: 7th WMVC-2015 is one of the conference series on wave mechanics and vibrations. This national conference will be held during December 21, 2015 to December 23, 2015 at Indian School of Mines (Announced to be upgraded as Indian Institute of Technology) Dhanbad, India. This conference covers the topics like: Computational and Mathematical methods in Science and Technology, Solid Mechanics, Fluid dynamics, Theoretical astrophysics and Celestial mechanics, Numerical methods, Differential equations and Mathematical modeling. Several renowned experts from top organizations/institutes will be keynote speakers in this conference. This conference provides a unified stage to the academicians/researchers of both science and technology. Indian School of Mines will host this conference with the collaboration with Von Karman Society, Jalpaiguri, India.

* 27–29 **Modern Mathematical Methods And High Performance Computing in Science & Technology (M3HPCST-2015)**, Department of Mathematics Raj Kumar Goel Institute of Technology NH-58 Delhi-Meerut Road, Ghaziabad UP 201003, INDIA.

Description: The goal of this conference is to explore multi-disciplinary research. It focuses on algorithms development and implementation of Modern Mathematical Methods and High Performance Computing by Scientists, Researchers and Engineers. Current

research in computational science requires multi-disciplinary knowledge, not only in sciences and engineering but also in technologies of computing. This conference offers academic researchers, developers and practitioners an opportunity to discuss various aspects of computational science and engineering related problems solving techniques for science and engineering research. The focus area will include, but not be limited to: Computational Methods for Linear and Non Linear Optimization, Mathematical Models, Mathematical Modeling and Computational Techniques, Functional Analysis, Operation Theory, Approximation Theory, Algebraic Coding Theory, Number Theory, Image and Signal Processing, Computational Biology, High Performance Computing, Advance Numerical Methods.

Important Dates: Receipt of Abstract July 15, 2015

Intimation of Acceptance of Abstract July 25, 2015

Submission of full length paper (Max. 8 Pages) - August 30, 2015

Notification of review comments - November 10, 2015

Final submission in camera ready format - November 30, 2015

Date of the Conference - December 27–29, 2015.

Information: www.rkgit.edu.in/m3hpcst-2015.php

* 28–31 **Ninth International Triennial Calcutta Symposium on Probability and Statistics**, Department of Statistics, University of Calcutta, 35 Ballygunge Circular Road, Kolkata 700019, West Bengal, India

Description: Organised by the Department of Statistics, University of Calcutta and Calcutta Statistical Association, the ninth edition of the Symposium will feature special sessions; invited and contributory sessions on Theoretical and Applied Statistics and Probability; and poster sessions for students and young researchers. Best posters will be awarded. Sponsored posters from industries will also be entertained. As in previous editions, special lectures on Design of Experiments in memory of late Professor R. C. Bose and on Multivariate Analysis in memory of late Professor S. N. Roy will be held during the symposium.

Keynote Speaker: Professor Sheldon M. Ross, University of California at Berkeley.

S. K. Chakravarti Memorial Speaker: Professor Sabina Alkire, Oxford University.

Deadlines: Abstracts: June 30, 2015; Early registration: October 31, 2015.

Information:

calcuttastatisticalassociation.org/triennial/symp-Brochure.php

February 2016

* 2–6 **36th Linz Seminar on Fuzzy Set Theory “Functional Equations and Inequalities”**, St. Magdalena, Linz, Austria.

Description: Since their inception in 1979 the Linz Seminars on Fuzzy Set Theory have emphasized the development of mathematical aspects of fuzzy sets by bringing together researchers in fuzzy sets and established mathematicians whose work outside the fuzzy setting can provide direction for further research. The philosophy of the seminar has always been to keep it deliberately small and intimate so that informal critical discussions remain central. LINZ 2016 will be the 36th seminar carrying on this tradition and is devoted to the theme “Functional Equations and Inequalities.” The goal of the seminar is to present and to discuss recent advances on (algebraic) functional equations and inequalities and their applications in pure and applied mathematics, with special emphasis on many-valued logics, multicriteria decision aid and preference modelling. LINZ 2016 is organized by the Department of Knowledge-Based Mathematical Systems of the Johannes Kepler University Linz, Austria.

Information: www.f111.jku.at/linzseminars

* 22–26 **Algebraic Geometry for Coding Theory and Cryptography**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA.

Description: Coding theory and cryptography are important in everyday life, because they form some of the building blocks of

e-commerce. Error-correction via coding theory protects information as it is stored or sent, and efficient error-correction may provide significant benefits and cost-savings for enterprise. Cryptographic systems are necessary to secure information in storage, transmission, and interaction, and provide both confidentiality and authenticity guarantees. While there has always been significant and fruitful interaction between algebraic geometry and both coding theory and cryptography, new directions in coding theory—such as locally decodable codes, codes for distributed storage systems, and network coding—suggest the possibility of new connections with algebraic geometry. Participants will spend one week working together in small groups on one of six projects related to the theme of the workshop.

Information:

Apply at www.mathprograms.org/db/programs/369

URL: www.ipam.ucla.edu/agc2016

March 2016

- * 12–13 **6th Ohio River Analysis Meeting (ORAM 6)**, University of Kentucky, Lexington, KY.

Description: ORAM is an annual event jointly sponsored by mathematicians at the University of Cincinnati and the University of Kentucky highlighting research in analysis and partial differential equations. ORAM 6 is hosted by the University of Kentucky. The confirmed invited speakers are Scott Armstrong (Université Paris-Dauphine), Hans Lindblad (Johns Hopkins University), Camil Muscalu (Cornell University), Malabika Pramanik (University of British Columbia), and Monica Visan (UCLA). There will be 20–25 contributed talks, with priority given to young mathematicians and those from underrepresented groups. Travel support is available through a grant from the National Science Foundation. Please see the website for registration and details.

Information: math.as.uky.edu/oram6

April 2016

- * 11–15 **Workshop II: Culture Analytics and User Experience Design**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA.

Description: Culture analytics concerns itself with the highly interwoven and complex interactions among individuals, society, and technology that are catalyzed by the enormous growth in data that characterizes the current age. User experience design requires more than a thin interface veneer on top of an algorithmic layer. The shape of the user experience must be rooted in the computational structure from the beginning and co-designed along with the statistical and machine learning algorithms for data exploration and analysis. In order to best design the next generation of technologies to enhance communication, collaboration, and cultural understanding, and to prepare for unintended consequences, we need to incorporate a robust understanding of human and social capabilities with deep technical and mathematical skills. To accomplish this, researchers, developers, and designers must demonstrate a willingness to transcend disciplinary concerns. The funding application deadline is February 15, 2016.

Information: www.ipam.ucla.edu/caws2

June 2016

- * 6–10 **AIM Workshop: Markov chain mixing times**, American Institute of Mathematics, San Jose, California.

Description: This workshop, sponsored by AIM and the NSF, will be devoted to new connections between the topic of Markov chain mixing times and other subareas of modern probability theory.

Location: aimath.org/workshops/upcoming/markovmixing

- * 27–July 1 **AIM Workshop: Representation Stability**, American Institute of Mathematics, San Jose, CA.

Description: This workshop, sponsored by AIM and the NSF, will be devoted to recent developments in representation stability. Among

these developments are results on algebraic and combinatorial aspects of functor categories and stable representation categories, and the use of “large” algebraic structures on limit objects to obtain finiteness results.

Location: aimath.org/workshops/upcoming/repnstability

- * 27–July 1 **Optimal and Random Point Configurations: From Statistical Physics to Approximation Theory**, Institut Henri Poincaré, Paris, France.

Description: This conference aims at bringing together the communities of probabilists, statistical physicists, approximation theorists, and analysts, who work with different points of view on issues of optimal and random point configurations such as Fekete sets, Coulomb gases, point processes arising in random matrices, and crystallization questions. Particular attention will be given to the lectures being accessible to young researchers and a poster session will be organized.

Location: djalil.chafai.net/wiki/ihp2016:start

July 2016

- * 3–8 **Conference on Rings and Polynomials**, Graz University of Technology, Graz, Austria.

Description: Continuing the series of ring-theory conferences in Graz 2012 and 2014. Rings, algebras and polynomials, with emphasis on: Integer-valued polynomials; Polynomial functions; Multiplicative ideal theory Factorization theory in rings and semigroups; Module theory and linear algebra over rings; Homological algebra; Pruefer domains and related topics; Zariski-Riemann spaces of valuation domains.

Invited Speakers: Silvana Bazzoni (Univ. of Padova, Italy), Paul-Jean Cahen (Univ. Aix-Marseille III, France), Mátyás Domokos (Hungarian Acad. Sci.), Mi Hee Park [unconfirmed] (Chung-Ang Univ., Korea), Hans Schoutens (CUNY, USA), Nicholas Werner (SUNY, USA).

Location: integer-valued.org/conf2016/

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

September 2016

- * 26–30 **Machine Learning Meets Many-Particle Problems**, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA.

Description: This workshop will set the stage and define research directions for the rest of the program. The idea is to achieve a healthy mix between mathematicians, computer scientists, physicists, and chemists and establish common grounds that will enable rational applications of machine learning techniques to many-particle problems. One prominent outcome of this workshop will be the establishment of a common repository of datasets corresponding to different many-particle problems (structures and energies of molecules and materials, protein structures and dynamics, spectroscopic signatures of complex systems, etc.). These datasets can be used to assess the performance of different ML techniques during the IPAM program and beyond. The application deadline for funding is August 1, 2016.

Information: www.ipam.ucla.edu/mpsws1

July 2017

- * 30–August 4 **Current Trends in Dynamical Systems and the Mathematical Legacy of Rufus Bowen**, University of British Columbia, Vancouver, BC, Canada.

Description: The conference will focus on areas of current interest that are broadly related to the work of Rufus Bowen.

Information: www.math.ubc.ca/~marcus/RBowenConference/