

# MEETINGS & CONFERENCES OF THE AMS

## DECEMBER TABLE OF CONTENTS

The Meetings and Conferences section of the Notices gives information on all AMS meetings and conferences approved by press time for this issue. Please refer to the page numbers cited on this page for more detailed information on each event. Invited Speakers and Special Sessions are listed as soon as they are approved by the cognizant program committee; the codes listed are needed for electronic abstract submission. For some meetings the list may be incomplete. Information in this issue may be dated.

The most up-to-date meeting and conference information can be found online at: [www.ams.org/meetings](http://www.ams.org/meetings).

**Important Information About AMS Meetings:** Potential organizers, speakers, and hosts should refer to page 88 in the January 2018 issue of the *Notices* for general information regarding participation in AMS meetings and conferences.

**Abstracts:** Speakers should submit abstracts on the easy-to-use interactive Web form. No knowledge of  $\text{\LaTeX}$  is

necessary to submit an electronic form, although those who use  $\text{\LaTeX}$  may submit abstracts with such coding, and all math displays and similarly coded material (such as accent marks in text) must be typeset in  $\text{\LaTeX}$ . Visit [www.ams.org/cgi-bin/abstracts/abstract.pl](http://www.ams.org/cgi-bin/abstracts/abstract.pl). Questions about abstracts may be sent to [abs-info@ams.org](mailto:abs-info@ams.org). Close attention should be paid to specified deadlines in this issue. Unfortunately, late abstracts cannot be accommodated.

## MEETINGS IN THIS ISSUE

### 2019

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### 2020

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### 2022

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See [www.ams.org/meetings](http://www.ams.org/meetings) for the most up-to-date information on the meetings and conferences that we offer.

## ASSOCIATE SECRETARIES OF THE AMS

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**Eastern Section:** Steven H. Weintraub, Department of Mathematics, Lehigh University, Bethlehem, PA 18015-3174; email: [steve.weintraub@lehigh.edu](mailto:steve.weintraub@lehigh.edu); telephone: 610-758-3717.

**Southeastern Section:** Brian D. Boe, Department of Mathematics, University of Georgia, 220 D W Brooks Drive, Athens, GA 30602-7403, email: [brian@math.uga.edu](mailto:brian@math.uga.edu); telephone: 706-542-2547.

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# Meetings & Conferences of the AMS

**IMPORTANT INFORMATION REGARDING MEETINGS PROGRAMS:** AMS Sectional Meeting programs do not appear in the print version of the *Notices*. However, comprehensive and continually updated meeting and program information with links to the abstract for each talk can be found on the AMS website. See [www.ams.org/meetings/](http://www.ams.org/meetings/).

Final programs for Sectional Meetings will be archived on the AMS website accessible from the stated URL .

## Baltimore, Maryland

*Baltimore Convention Center, Hilton Baltimore, and Baltimore Marriott Inner Harbor Hotel*

**January 16–19, 2019**

*Wednesday – Saturday*

### Meeting #1145

*Joint Mathematics Meetings, including the 125th Annual Meeting of the AMS, 102nd Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association of Symbolic Logic (ASL), with sessions contributed by the Society for Industrial and Applied Mathematics (SIAM).*

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: October 2018

Program first available on AMS website: November 1, 2018

Issue of *Abstracts*: Volume 40, Issue 1

### Deadlines

For organizers: Expired

For abstracts: Expired

*The scientific information listed below may be dated. For the latest information, see [www.ams.org/amsmtgs/national.html](http://www.ams.org/amsmtgs/national.html).*

### Joint Invited Addresses

**Sarah Koch**, University of Michigan, *What is the shape of a rational map?* (AMS-MAA Invited Address).

**Bryna Kra**, Northwestern University, *Dynamics of systems with low complexity* (AWM-AMS Noether Lecture).

**Cathy O’Neil**, ORCAA, *Big data, inequality, and democracy* (MAA-AMS-SIAM Gerald and Judith Porter Public Lecture).

**Daniel A Spielman**, Yale University, *Miracles of Algebraic Graph Theory* (AMS-MAA Invited Address).

### AMS Invited Addresses

**Jesús A. De Loera**, University of California, Davis, *Algebraic, Geometric, and Topological Methods in Optimization*.

**Benedict H. Gross**, University of California San Diego, *Complex multiplication: past, present, future* (AMS Colloquium Lectures: Lecture I).

**Benedict H. Gross**, University of California San Diego, *Complex multiplication: past, present, future* (AMS Colloquium Lectures: Lecture II).

**Benedict H. Gross**, University of California San Diego, *Complex multiplication: past, present, future* (AMS Colloquium Lectures: Lecture III).

**Peter Ozsvath**, Princeton University, *From knots to symplectic geometry and algebra*.

**Lior Pachter**, California Institute of Technology, *Title to be announced*.

**Karen Hunger Parshall**, University of Virginia, *The Roaring Twenties in American Mathematics*.

**Alan S Perelson**, Los Alamos National Laboratory, *Immunology for mathematicians* (AMS Josiah Willard Gibbs Lecture).

**Lillian B. Pierce**, Duke University, *On torsion subgroups in class groups of number fields*.

### AMS Special Sessions

*If you are volunteering to speak in a Special Session, you should send your abstract as early as possible via the abstract submission form found at [jointmathematicsmeetings.org/meetings/abstracts/abstract.pl?type=jmm](http://jointmathematicsmeetings.org/meetings/abstracts/abstract.pl?type=jmm).*

**Some sessions are cosponsored with other organizations. These are noted within the parenthesis at the end of each listing, where applicable.**

*25 years of Conferences for African-American Researchers in the Mathematical Sciences (CAARMS times 25), William A. Massey, Princeton University.*

*A Showcase of Number Theory at Undergraduate Institutions*, **Adriana Salerno**, Bates College, and **Lola Thompson**, Oberlin College.

*Advances and Applications in Integral and Differential Equations*, **Jeffrey T. Neugebauer**, Eastern Kentucky University, and **Min Wang**, Kennesaw State University.

*Advances by Early Career Women in Discrete Mathematics*, **Jessalyn Bolkema**, State University of New York at Oswego, and **Jessica De Silva**, California State University, Stanislaus.

*Advances in Operator Theory, Operator Algebras, and Operator Semigroups*, **Joseph Ball**, Virginia Tech, **Marat Markin**, California State University, Fresno, **Igor Nikolaev**, St. John's University, and **Ilya Spitkovsky**, New York University, Abu Dhabi.

*Advances in Quantum Walks, Quantum Simulations, and Related Quantum Theory*, **Radhakrishnan Balu**, US Army Research Lab, **Chaobin Liu**, Bowie State University, and **Takuya Machida**, Nihon University, Japan.

*Agent-based Modeling in Biological and Social Systems (a Mathematics Research Communities Session)*, **Maryann Hohn**, University of California Santa Barbara, **Angelika Manhart**, Imperial College, London, **Christopher Miles**, Courant Institute, New York University, and **Cole Zmurchok**, University of British Columbia.

*Algebraic Structures Motivated by Knot Theory*, **Mikhail Khovanov**, Columbia University, and **Jozef H. Przytycki** and **Alexander Shumakovitch**, George Washington University.

*Algebraic and Geometric Methods in Discrete Optimization*, **Amitabh Basu**, Johns Hopkins University, and **Jesus De Loera**, University of California, Davis.

*Algebraic, Discrete, Topological and Stochastic Approaches to Modeling in Mathematical Biology*, **Olcay Akman**, Illinois State University, **Timothy D. Comar**, Benedictine University, **Daniel Hrozencik**, Chicago State University, and **Raina Robeva**, Sweet Briar College.

*Algorithmic Dimensions and Fractal Geometry*, **Jack H. Lutz**, Iowa State University, and **Elvira Mayordomo**, University of Zaragoza, Spain (AMS-ASL).

*Analysis and Geometry of Nonlinear Evolution Equations*, **Marius Beceanu**, University at Albany, State University of New York, and **Dan-Andrei Geba**, University of Rochester.

*Analysis of Fractional, Stochastic, and Hybrid Dynamic Systems with Applications*, **John R. Graef**, University of Tennessee at Chattanooga, **G. S. Ladde**, University of South Florida, and **A. S. Vatsala**, University of Louisiana at Lafayette.

*Analytic Number Theory*, **Thomas A. Hulse**, Boston College, **Angel V. Kumchev** and **Nathan McNew**, Towson University, and **John Miller**, The Johns Hopkins University.

*Arithmetic Statistics*, **Michael Chou** and **Robert Lemke Oliver**, Tufts University, and **Ari Shnidman**, Center for Communications Research-Princeton.

*Bifurcations of Difference Equations and Discrete Dynamical Systems with Applications*, **Arzu Bilgin**, Recep Tayyip Erdogan University, Turkey, and **Toufik Khyat**, Trinity College.

*Commutative Ring Theory: Research for Undergraduate and Early Graduate Students*, **Nicholas Baeth**, Franklin and Marshall College, and **Branden Stone**, Hamilton College.

*Continued Fractions*, **Geremías Polanco Encarnación**, Hampshire College, **James McLaughlin**, West Chester University, **Barry Smith**, Lebanon Valley College, and **Nancy J. Wyshinski**, Trinity College.

*Counting Methods in Number Theory*, **Lillian Pierce**, Duke University, **Arindam Roy**, Rice University, and **Jiuya Wang**, University of Wisconsin.

*Definability and Decidability Problems in Number Theory*, **Kirsten Eisenträger**, Pennsylvania State University, **Deidre Haskell**, McMaster University, Ontario, Canada, **Jennifer Park**, University of Michigan, and **Alexandra Shlapentokh**, East Carolina University (AMS-ASL).

*Differential Equations on Fractals*, **Patricia Alonso-Ruiz**, University of Connecticut, **Joe Chen**, Colgate University, **Luke Rogers**, University of Connecticut, **Robert Strichartz**, Cornell University, and **Alexander Teplyaev**, University of Connecticut.

*Enumerative Combinatorics*, **Miklos Bona**, University of Florida, and **Cheyne Homberger**, University of Maryland, Baltimore County.

*Financial Mathematics*, **Maxim Bichuch**, Johns Hopkins University, **Anja Richter**, Baruch College, City University of New York, and **Stephan Sturm**, Worcester Polytechnic Institute.

*Geometric and Topological Combinatorics*, **Anastasia Chavez** and **Jamie Haddock**, University of California, Davis, and **Annie Raymond**, University of Massachusetts, Amherst.

*Geometric and Topological Generalization of Groups*, **Amrita Acharyya**, University of Toledo, and **Bikash C. Das**, University of North Georgia.

*Geometry Labs United: Research, Visualization, and Outreach*, **Marianne Korten**, Kansas State University, and **Sean Lawton** and **Anton Lukyanenko**, George Mason University.

*Geometry and Dynamics of Continued Fractions*, **Anton Lukyanenko**, George Mason University, and **Joseph Vandehey**, Ohio State University.

*Geometry of Representation Spaces*, **Sean Lawton**, George Mason University, **Chris Manon**, University of Kentucky, and **Daniel Ramras**, Indiana University-Purdue University Indianapolis.

*Group Representation Theory and Character Theory*, **Mohammad Reza Darafsheh**, University of Tehran, Iran, and **Manouchehr Misaghian**, Prairie View A&M University.

*Harmonic Analysis, Partial Differential Equations, and Applications*, **Russell Brown**, University of Kentucky, and **Irina Mitrea**, Temple University.

*Harmonic Analysis: Recent Developments on Oscillatory Integrals (a Mathematics Research Communities Session)*, **Xiumin Du**, University of Maryland, **Taryn C. Flock**, University of Massachusetts Amherst, and **Yakun Xi**, University of Rochester.

*History of Mathematics*, **Sloan Despeaux**, Western Carolina University, **Jemma Lorenat**, Pitzer College, **Daniel E. Otero**, Xavier University, and **Adrian Rice**, Randolph-Macon College (AMS-MAA-ICHM).

*Hopf Algebras and Tensor Categories*, **Siu-Hung Ng**, Louisiana State University, **Julia Plavnik**, Texas A&M University, and **Henry Tucker**, University of California, San Diego.

*How to Guard an Art Gallery and Other Discrete Mathematical Adventures (In Memory of T. S. Michael, 1960 to 2016)*, **Joseph Bonin**, The George Washington University, **Carolyn Chun**, US Naval Academy, and **Nancy Neudauer**, Pacific University.

*If You Build It They Will Come: Presentations by Scholars in the National Alliance for Doctoral Studies in the Mathematical Sciences*, **David Goldberg**, Purdue University, and **Phil Kutzko**, University of Iowa.

*Latinx in Math*, **Alexander Diaz-Lopez**, Villanova University, **Laura Escobar**, University of Illinois, and **Juanita Pinzón-Caicedo**, North Carolina State University.

*Lattice Path Combinatorics and Applications*, **Christian Krattenthaler**, University of Vienna, Austria, and **Alan Krinik** and **Randall J. Swift**, California State Polytechnic University.

*Localization and Delocalization for Disordered Quantum Systems*, **Peter D. Hislop**, University of Kentucky, **Christoph A. Marx**, Oberlin College, and **Jeffery Schenker**, Michigan State University.

*Low Complexity Models in Data Analysis and Machine Learning*, **Emily J. King**, University of Bremen, Germany, **Nate Strawn**, Georgetown University, and **Soledad Villar**, New York University.

*Mappings on Metric and Banach Spaces with Applications to Fixed Point Theory*, **Torrey M. Gallagher**, Bucknell University, and **Christopher J. Lennard**, University of Pittsburgh.

*Mathematical Analysis in Fluid Dynamics*, **Yanqiu Guo**, Florida International University, **Jinkai Li**, South China Normal University, **Jing Tian**, Towson University, and **Yuncheng You**, University of South Florida.

*Mathematical Investigations of Spatial Ecology and Epidemiology*, **Leah Shaw** and **Junping Shi**, College of William and Mary, and **Zhisheng Shuai**, University of Central Florida.

*Mathematical Models in Ecology, Epidemiology, and Medicine*, **Richard Schugart**, Western Kentucky University, and **Najat Ziyadi**, Morgan State University.

*Mathematicians at Sea (in the Sky, or on Land): Defense Applications of Mathematics*, **Tegan Emerson**, **Timothy Doster**, and **George Stantchev**, Naval Research Laboratory.

*Mathematics in the Realm of Cyber Research*, **Daniel Bennett**, Army Cyber Institute, **Paul Goethals**, United States Military Academy, and **Natalie Scala**, Towson University.

*Mathematics of Coding Theory and Applications*, **Hiram Lopez-Valdez** and **Felice Manganiello**, Clemson University, and **Gretchen L. Matthews**, Virginia Tech.

*Multiscale Problems in the Calculus of Variations*, **Elisa Davoli**, University of Vienna, Austria, and **Rita Ferreira**, King Abdullah University of Science and Technology, Saudi Arabia.

*Natural Resources Modeling*, **Julie Blackwood**, Williams College, and **Shandelle M. Henson**, Andrews University.

*Network Science*, **David Burstein**, Swarthmore College, **Franklin Kenter**, United States Naval Academy, and **Feng 'Bill' Shi**, University of North Carolina.

*New Directions in the Theory of Complex Multiplication*, **Henri Darmon**, McGill University, **Samit Dasgupta**, University of California, Santa Cruz, and **Benedict Gross**, Harvard University.

*Nonlinear Evolution Equations and Their Applications*, **Mingchao Cai**, Morgan State University, **Gisele Mophou Loudjom**, University of French West Indies, Guadeloupe, France, and **Gaston N'Guerekata**, **Alexander Pankov**, **Xuming Xie**, and **Guoping Zhang**, Morgan State University.

*Not K Nerds: A Community for Knot Theory*, **Moshe Cohen**, Vassar College, **Elizabeth Denne**, Washington and Lee University, and **Adam Lowrance**, Vassar College.

*Number Theoretic Methods in Hyperbolic Geometry (a Mathematics Research Communities Session)*, **Samantha Fairchild**, University of Washington, **Junxian Li**, Universität Göttingen, and **Richard Vradenburgh**, University of Virginia.

*Number Theory, Arithmetic Geometry, and Computation*, **Brendan Hassett**, Brown University, **Drew Sutherland**, Massachusetts Institute of Technology, and **John Voight**, Dartmouth College.

*Numerical Methods for PDEs and Applications*, **Wenrui Hao**, **Qingguo Hong**, and **Jinchao Xu**, Pennsylvania State University.

*Optimal Methods in Applicable Analysis: Variational Inequalities, Low Rank Matrix Approximations, Systems Engineering, Cyber Security*, **Aritra Dutta**, King Abdullah University of Science and Technology, Saudi Arabia, **Ram Mohapatra**, University of Central Florida, **Gayatri Pany**, Singapore University of Technology and Design, Singapore, and **Nabin Kumar Sahu**, Dhirubhai Ambani Institute of Information and Communication Technology, India.

*Orthogonal Polynomials, Quantum Probability, Harmonic and Stochastic Analysis*, **Nobuhiro Asai**, Aichi University of Education, Kariya, Japan, **Rodica Costin**, The Ohio State University, **Aurel I. Stan**, The Ohio State University at Marion, and **Hiroaki Yoshida**, Ochanomizu University, Tokyo, Japan.

*Partition Theory and Related Topics*, **Dennis Eichhorn**, University of California, Irvine, **Tim Huber**, University of Texas, Rio Grande Valley, and **Amita Malik**, Rutgers University.

*Problems in Partial Differential Equations*, **Alex Himonas**, University of Notre Dame, and **Curtis Holliman**, The Catholic University of America.

*Quantum Symmetries: Subfactors and Fusion Categories (a Mathematics Research Communities Session)*, **Cain Edie-Michell** and **Lauren Ruth**, Vanderbilt University, and **Yilong Wang**, Louisiana State University.

*Quaternions*, **Terrence Blackman**, Medgar Evers College, City University of New York, and **Johannes Familton** and **Chris McCarthy**, Borough of Manhattan Community College, City University of New York.

*Recent Advancements in Mathematical Modeling of Cancer*, **Kamila Larripa**, Humboldt State University, and **Hwayeon Ryu**, University of Hartford.

*Recent Advances and Trends in Computable Structure Theory (in honor of J. Remmel)*, **Jennifer Chubb**, University of San Francisco, and **Tim McNicholl**, Iowa State University.

*Recent Advances in Biological Modeling and Related Dynamical Analysis*, **Joshi Raj Hem**, Xavier University, and **Yanyu Xiao**, University of Cincinnati.

*Recent Advances in Homological and Commutative Algebra*, **Neil Epstein**, George Mason University, **Claudiu Raicu**, Notre Dame University, and **Alexandra Seceleanu**, University of Nebraska.

*Recent Advances in Inverse Problems and Imaging*, **Kui Ren**, University of Texas at Austin, and **Yang Yang**, Michigan State University.

*Recent Advances in Regularity Lemmas*, **Gabriel Conant**, University of Notre Dame, **Rehana Patel**, and **Julia Wolf**, University of Bristol, UK.

*Recent Progress in Multivariable Operator Theory*, **Dmitry Kaliuzhnyi-Verbovetsky** and **Hugo Woerdeman**, Drexel University.

*Research in Mathematics by Early Career Graduate Students*, **Marat Markin**, **Morgan Rodgers**, **Khang Tran**, and **Oscar Vega**, California State University, Fresno.

*Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs*, **Darren A. Narayan**, Rochester Institute of Technology, **Khang Tran**, California State University, Fresno, **Mark David Ward**, Purdue University, and **John Wierman**, The Johns Hopkins University (AMS-MAA-SIAM).

*Riordan Arrays*, **Alexander Burstein** and **Dennis Davenport**, Howard University, **Asamoah Nkwanta**, Morgan State University, **Lou Shapiro**, Howard University, and **Leon Woodson**, Morgan State University.

*Statistical, Variational, and Learning Techniques in Image Analysis and their Applications to Biomedical, Hyperspectral, and Other Imaging*, **Justin Marks**, Gonzaga University, **Laramie Paxton**, Washington State University, and **Viktoria Taroudaki**, Eastern Washington University.

*Stochastic Analysis and Applications in Finance, Actuarial Science and Related Fields*, **Julius N. Esunge**, University of Mary Washington, **See Keong Lee**, University of the Sciences, Malaysia, and **Aurel I. Stan**, The Ohio State University at Marion.

*Stochastic Differential Equations and Applications*, **Carey Caginalp**, University of Pittsburgh.

*Symbolic Dynamics*, **Van Cyr**, Bucknell University, and **Bryna Kra**, Northwestern University.

*The Mathematics of Gravity and Light (a Mathematics Research Communities Session)*, **Sougata Dhar**, University of Maine, **Chad R. Mangum**, Niagara University, and **Nadine Stritzelberger**, University of Waterloo.

*The Mathematics of Historically Black Colleges and Universities (HBCUs) in the Mid-Atlantic*, **Edray Goins**, Purdue University, **Janis Oldham**, North Carolina A&T, **Talithia Washington**, Howard University, and **Scott Williams**, University at Buffalo, State University of New York.

*Topological Data Analysis: Theory and Applications*, **Justin Curry**, University at Albany, State University of New York, **Mikael Vejdemo-Johansson**, College of Staten

Island, City University of New York, and **Sara Kalisnik Verovsek**, Wesleyan University.

*Topology, Structure and Symmetry in Graph Theory*, **Lowell Abrams**, George Washington University, and **Mark Ellingham**, Vanderbilt University.

*Using Modeling to Motivate the Study of Differential Equations*, **Robert Kennedy**, Centennial High School, Ellicott City MD, **Audrey Malagon**, Virginia Wesleyan University, **Brian Winkel**, SIMIODE, Cornwall NY, and **Dina Yagodich**, Frederick Community College.

*Women in Topology*, **Jocelyn Bell**, Hobart and William Smith Colleges, **Rosemary Guzman**, University of Chicago, **Candice Price**, University of San Diego, and **Arunima Ray**, Max Planck Institute for Mathematics, Germany.

## Auburn, Alabama

### Auburn University

March 15–17, 2019

Friday – Sunday

#### Meeting #1146

Southeastern Section

Associate secretary: Brian D. Boe

Announcement issue of *Notices*: January 2019

Program first available on AMS website: January 31, 2019

Issue of *Abstracts*: Volume 40, Issue 2

#### Deadlines

For organizers: Expired

For abstracts: January 29, 2019

*The scientific information listed below may be dated. For the latest information, see [www.ams.org/amsmtgs/sectional.html](http://www.ams.org/amsmtgs/sectional.html).*

#### Invited Addresses

**sharandeep singh**, Punjabi University Patiala, *Importance of operational Research in our daily life.*

**Carina Curto**, Pennsylvania State University, *To be announced.*

**Ming Liao**, Auburn University, *To be announced.*

#### Special Sessions

*If you are volunteering to speak in a Special Session, you should send your abstract as early as possible via the abstract submission form found at [www.ams.org/cgi-bin/abstracts/abstract.pl](http://www.ams.org/cgi-bin/abstracts/abstract.pl).*

*Algebraic and Discrete Methods in Mathematical Biology* (Code: SS 21A), **Carina Curto**, The Pennsylvania State University, **Katherine Morrison**, University of Northern Colorado, and **Nora Youngs**, Colby College.

*Applications of Algebraic Geometry* (Code: SS 25A), **Greg Blekherman**, Georgia Institute of Technology, **Michael Burr**, Clemson University, and **Tianran Chen**, Auburn University at Montgomery.

## MEETINGS & CONFERENCES

*Clustering Methods and Applications* (Code: SS 23A), **Benjamin McLaughlin**, Naval Surface Warfare Center Panama City Division (NSWCPCD), and **Sung Ha Kang**, Georgia Institute of Technology.

*Combinatorial Matrix Theory* (Code: SS 2A), **Zhongshan Li**, Georgia State University, and **Xavier Martínez-Rivera**, Auburn University.

*Commutative and Combinatorial Algebra* (Code: SS 3A), **Selvi Kara Beyarslan**, University of South Alabama, and **Alessandra Costantini**, Purdue University.

*Developments in Commutative Algebra* (Code: SS 1A), **Eloísa Grifo**, University of Michigan, and **Patricia Klein**, University of Kentucky.

*Differential Equations in Mathematical Biology* (Code: SS 7A), **Guihong Fan**, Columbus State University, **Zhongwei Shen**, University of Alberta, and **Xiaoxia Xie**, Idaho State University.

*Discrete and Convex Geometry* (Code: SS 17A), **Andras Bezdek**, Auburn University, **Ferenc Fodor**, University of Szeged, and **Włodzimierz Kuperberg**, Auburn University.

*Evolution Equations and Applications* (Code: SS 9A), **Dmitry Glotov**, **Wenxian Shen**, and **Paul G. Schmidt**, Auburn University.

*Experimental Mathematics in Number Theory, Analysis, and Combinatorics* (Code: SS 6A), **Amita Malik**, Rutgers University, and **Armin Straub**, University of South Alabama.

*Geometric Flows and Minimal Surfaces* (Code: SS 20A), **Theodora Bourni**, University of Tennessee, and **Giuseppe Tinaglia**, King's College London and University of Tennessee.

*Geometric Methods in Representation Theory* (Code: SS 15A), **Jiuzu Hong** and **Shrawan Kumar**, University of North Carolina, Chapel Hill, and **Yiqiang Li**, University at Buffalo, the State University of New York.

*Geometric and Combinatorial Aspects of Representation Theory* (Code: SS 19A), **Mark Colarusso**, University of South, and **Jonas Hartwig**, Iowa State University.

*Geometry and Topology of Low Dimensional Manifolds, and Their Invariants* (Code: SS 13A), **John Etnyre**, Georgia Institute of Technology, **Bulent Tosun**, University of Alabama, and **Shea Vela-Vick**, Louisiana State University.

*Graph Theory in Honor of Robert E. Jamison's 70th Birthday* (Code: SS 4A), **Robert A Beeler**, East Tennessee State University, **Gretchen Matthews**, Virginia Tech, and **Beth Novick**, Clemson University.

*Hopf Algebras and Their Applications* (Code: SS 10A), **Robert Underwood**, Auburn University at Montgomery, and **Alan Koch**, Agnes Scott College.

*Mapping Class Groups* (Code: SS 27A), **Joan Birman**, Columbia University, and **Kevin Kordek** and **Dan Margalit**, Georgia Institute of Technology.

*Mathematical Analysis and Control Theory of Coupled Partial Differential Equation Models* (Code: SS 11A), **George Avalos** and **Pelin Gu'ven Geredeli**, University of Nebraska-Lincoln, and **László Kindrat**, University of New Hampshire.

*Nonlinear Reaction-Diffusion Equations and Their Applications* (Code: SS 18A), **Jerome Goddard, II**, Auburn

University at Montgomery, **Nsoki Mavinga**, Swarthmore College, **Quinn Morris**, Appalachian State University, and **R. Shivaji**, University of North Carolina at Greensboro.

*Probability and Stochastic Processes* (Code: SS 5A), **Ming Liao**, **Erkan Nane**, and **Jerzy Szulga**, Auburn University.

*Random Discrete Structures* (Code: SS 24A), **Lutz P Warnke**, Georgia Institute of Technology, and **Xavier Pérez-Giménez**, University of Nebraska-Lincoln.

*Recent Advances in Coarse Geometry* (Code: SS 12A), **Jerzy Dydak**, University of Tennessee.

*Recent Advances in Numerical Methods for PDEs and PDE-constrained Optimization* (Code: SS 26A), **Yanzhao Cao**, **Thi-Thao-Phuong Hoang**, and **Junshan Lin**, Auburn University.

*Recent Developments in Graph Theory* (Code: SS 16A), **Xiaofeng Gu**, **Jeong-Hyun Kang**, **David Leach**, and **Rui Xu**, University of West Georgia.

*Representations of Lie Algebras, Algebraic Groups, and Quantum Groups* (Code: SS 8A), **Joerg Feldvoss**, University of South Alabama, **Lauren Grimley**, Spring Hill College, and **Cornelius Pillen**, University of South Alabama.

*The Modeling and Analysis of Spatially Extended Structures* (Code: SS 22A), **Shibin Dai**, University of Alabama, **Keith Promislow**, Michigan State University, and **Qiliang Wu**, Ohio University.

*Topological Data Analysis, Statistics and Applications* (Code: SS 14A), **Yu-Min Chung**, University of North Carolina at Greensboro, and **Vasileios Maroulas**, University of Tennessee.

## Honolulu, Hawaii

University of Hawaii at Manoa

March 22–24, 2019

Friday – Sunday

Meeting #1147

Central Section

Associate secretaries: Georgia Benkart and Michel L. Lapidus

Announcement issue of *Notices*: January 2019

Program first available on AMS website: February 7, 2019

Issue of *Abstracts*: Volume 40, Issue 2

**Deadlines**

For organizers: Expired

For abstracts: January 29, 2019

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**Invited Addresses**

**Barry Mazur**, Harvard University, *On the arithmetic of curves* (Einstein Public Lecture in Mathematics).

**Aaron Naber**, Northwestern University, *Analysis of geometric nonlinear partial differential equations*.

**Deanna Needell**, University of California, Los Angeles, *Simple approaches to complicated data analysis*.

**Katherine Stange**, University of Colorado, Boulder, *Title to be announced*.

**Andrew Suk**, University of California, San Diego, *Title to be announced*.

### Special Sessions

If you are volunteering to speak in a Special Session, you should send your abstract as early as possible via the abstract submission form found at [www.ams.org/cgi-bin/abstracts/abstract.pl](http://www.ams.org/cgi-bin/abstracts/abstract.pl).

*Advances in Iwasawa Theory* (Code: SS 12A), **Frauke Bleher**, University of Iowa, **Ted Chinburg**, University of Pennsylvania, and **Robert Harron**, University of Hawaii at Manoa.

*Advances in Mathematical Fluid Mechanics* (Code: SS 32A), **Kazuo Yamazaki**, University of Rochester, and **Adam Larios**, University of Nebraska - Lincoln.

*Algebraic Groups, Galois Cohomology, and Local-Global Principles* (Code: SS 3A), **Raman Parimala**, Emory University, **Andrei Rapinchuk**, University of Virginia, and **Igor Rapinchuk**, Michigan State University.

*Algebraic Number Theory and Diophantine Equations* (Code: SS 20A), **Claude Levesque**, University of Laval.

*Algebraic Points* (Code: SS 36A), **Barry Mazur** and **Hector Pasten**, Harvard University.

*Algebraic and Combinatorial Structures in Knot Theory* (Code: SS 9A), **Sam Nelson**, Claremont McKenna College, **Natsumi Oyamaguchi**, Shumei University, and **Kanako Oshiro**, Sophia University.

*Algebraic and Geometric Combinatorics* (Code: SS 17A), **Andrew Berget**, Western Washington University, and **Steven Klee**, Seattle University.

*Analysis of Nonlinear Geometric Equations* (Code: SS 23A), **Aaron Naber**, Northwestern University, and **Richard Bamler**, University of California Berkeley.

*Analytic and Probabilistic Methods in Convex Geometry* (Code: SS 27A), **Alexander Koldobsky**, University of Missouri, **Alexander Litvak**, University of Alberta, **Dmitry Ryabogin**, Kent State University, **Vladyslav Yaskin**, University of Alberta, and **Artem Zvavitch**, Kent State University.

*Applications of Ultrafilters and Nonstandard Methods* (Code: SS 33A), **Isaac Goldbring**, University of California, Irvine, and **Steven Leth**, University of Northern Colorado.

*Arithmetic Dynamics* (Code: SS 29A), **Andrew Bridy**, Texas A&M University, **Michelle Manes**, University of Hawai'i at Manoa, and **Bianca Thompson**, Harvey Mudd College.

*Arithmetic Geometry and Its Connections* (Code: SS 51A), **Laura Capuano**, University of Oxford, and **Amos Turchet**, University of Washington.

*Arithmetic and Transcendence of Special Functions and Special Values* (Code: SS 56A), **Matthew A. Papanikolas**, Texas A&M University, and **Federico Pellarin**, Université Jean Monnet, St. Étienne.

*Coarse Geometry, Index Theory, and Operator Algebras: Around the Mathematics of John Roe* (Code: SS 53A), **Erik Guentner**, University of Hawai'i at Manoa, **Nigel Higson**, Penn State University, and **Rufus Willett**, University of Hawai'i at Manoa.

*Coding Theory and Information Theory* (Code: SS 39A), **Manabu Hagiwara**, Chiba University, and **James B. Nation**, University of Hawaii.

*Combinatorial and Experimental Methods in Mathematical Phylogeny* (Code: SS 47A), **Sean Cleary**, City College of New York and the CUNY Graduate Center, and **Katherine St. John**, Hunter College and the American Museum of Natural History.

*Commutative Algebra and its Environs* (Code: SS 4A), **Olgur Celikbas** and **Ela Celikbas**, West Virginia University, and **Ryo Takahashi**, Nagoya University.

*Computability, Complexity, and Learning* (Code: SS 45A), **Achilles A. Beros** and **Bj\orn Kjos-Hanssen**, University of Hawai'i at Manoa.

*Computational and Data-Enabled Sciences* (Code: SS 54A), **Roummel Marcia**, **Boaz Ilan**, and **Suzanne Sindi**, University of California, Merced.

*Constructive Aspects of Complex Analysis* (Code: SS 7A), **Iliia Binder** and **Michael Yampolsky**, University of Toronto, and **Malik Younsi**, University of Hawaii at Manoa.

*Differential Geometry* (Code: SS 10A), **Vincent B. Bonini**, Cal Poly San Luis Obispo, **Jie Qing**, University of California, Santa Cruz, and **Bogdan D. Suceava**, California State University, Fullerton.

*Dynamical Systems and Algebraic Combinatorics* (Code: SS 57A), **Maxim Arnold**, University of Texas at Dallas, **Jessica Striker**, North Dakota State University, and **Nathan Williams**, University of Texas at Dallas.

*Emerging Connections with Number Theory* (Code: SS 43A), **Katherine Stange**, University of Colorado, Boulder, and **Renate Scheidler**, University of Calgary.

*Equivariant Homotopy Theory and Trace Methods* (Code: SS 58A), **Andrew Blumberg**, University of Texas, **Teena Gerhardt**, Michigan State University, **Michael Hill**, UCLA, and **Michael Mandell**, Indiana University.

*Factorization and Arithmetic Properties of Integral Domains and Monoids* (Code: SS 31A), **Scott Chapman**, Sam Houston State University, **Jim Coykendall**, Clemson University, and **Christopher O'Neill**, University California, Davis.

*Generalizations of Symmetric Spaces* (Code: SS 22A), **Aloysius Helminck**, University of Hawaii at Manoa, **Vicky Klima**, Appalachian State University, **Jennifer Schaefer**, Dickinson College, and **Carmen Wright**, Jackson State University.

*Geometric Approaches to Mechanics and Control* (Code: SS 55A), **Monique Chyba**, University of Hawaii at Manoa, **Tomoki Ohsawa**, The University of Texas at Dallas, and **Vakhtang Putkaradze**, University of Alberta.

*Geometry, Analysis, Dynamics and Mathematical Physics on Fractal Spaces* (Code: SS 8A), **Joe P. Chen**, Colgate University, **Lū (Tim) Hùng**, Hawai'i Pacific University, **Machiel van Frankenhuysen**, Utah Valley University, and **Robert G. Niemeyer**, University of the Incarnate Word.

## MEETINGS & CONFERENCES

*Homotopy Theory* (Code: SS 48A), **Kyle Ormsby** and **Angélica Osorno**, Reed College.

*Interactions between Geometric Measure Theory, PDE, and Harmonic Analysis* (Code: SS 41A), **Mark Allen**, Brigham Young University, **Spencer Becker-Kahn**, University of Washington, **Max Engelstein**, Massachusetts Institute of Technology, and **Mariana Smit Vega Garcia**, University of Washington.

*Interactions between Noncommutative Algebra and Noncommutative Algebraic Geometry* (Code: SS 24A), **Garrett Johnson**, North Carolina Central University, **Bach Nguyen** and **Xingting Wang**, Temple University, and **Daniel Yee**, Bradley University.

*Lie Theory in the Representations of Groups and Related Structures - dedicated to the memory of Kay Magaard* (Code: SS 14A), **Christopher Drupieski**, DePaul University, and **Julia Pevtsova**, University of Washington.

*Mapping Class Groups* (Code: SS 35A), **Asaf Hadari**, University of Hawaii.

*Mathematical Analysis of Nonlinear Phenomena* (Code: SS 16A), **Mimi Dai**, University of Illinois at Chicago.

*Mathematical Methods and Models in Medicine* (Code: SS 19A), **Monique Chyba**, University of Hawaii, and **Jakob Kotas**, University of Hawaii and University of Portland.

*New Trends in Geometric Measure Theory* (Code: SS 37A), **Antonio De Rosa**, Courant Institute of Mathematical Sciences, New York University, and **Luca Spolaor**, Massachusetts Institute of Technology.

*New Trends on Variational Calculus and Non-Linear Partial Differential Equations* (Code: SS 44A), **Craig Cowan**, University of Manitoba, **Michinori Ishiwata**, Osaka University, **Abbas Moameni**, Carleton University, and **Futoshi Takahashi**, Osaka City University.

*Nonlinear Wave Equations and Applications* (Code: SS 42A), **Boaz Ilan**, University of California, Merced, and **Barbara Prinari**, University of Colorado, Colorado Springs.

*Numerical Methods for Partial Differential Equations* (Code: SS 50A), **Evan Gawlik**, **Michael Holst**, and **Martin Licht**, University of California, San Diego.

*Real and Complex Singularities* (Code: SS 34A), **Leslie Charles Wilson**, University of Hawaii, Manoa, **Goo Ishikawa**, Hokkaido University, and **David Trotman**, Aix-Marseille University.

*Recent Advances and Applications of Modular Forms* (Code: SS 1A), **Amanda Folsom**, Amherst College, **Pavel Guerzhoy**, University of Hawaii at Manoa, **Masanobu Kaneko**, Kyushu University, and **Ken Ono**, Emory University.

*Recent Advances in Lie and Related Algebras and their Representations* (Code: SS 28A), **Brian D. Boe**, University of Georgia, and **Jonathan Kujawa**, University of Oklahoma.

*Recent Advances in Numerical Methods for PDEs* (Code: 2249A), **Hengguang Li**, Wayne State University, and **Sara Pollock**, University of Florida.

*Recent Advances in Numerical Methods for PDEs* (Code: SS 49A), **Hengguang Li**, Wayne State University, and **Sara Pollock**, University of Florida.

*Recent Developments in Automorphic Forms* (Code: SS 2A), **Solomon Friedberg**, Boston College, and **Jayce Getz**, Duke University.

*Recent Trends in Algebraic Graph Theory* (Code: SS 26A), **Sebastian Cioaba**, University of Delaware, and **Shaun Fallat**, University of Regina.

*SYZ Mirror Symmetry and Enumerative Geometry* (Code: SS 11A), **Siu Cheong Lau**, Boston University, **Naichung Leung**, The Chinese University of Hong Kong, and **Hsian-Hua Tseng**, Ohio State University.

*Several Complex Variables* (Code: SS 5A), **Peter Ebenfelt**, University of California, San Diego, **John Erik Fornaess**, University of Michigan and Norwegian University of Science and Technology, **Ming Xiao**, University of California, San Diego, and **Yuan Yuan**, Syracuse University.

*Spaces of Holomorphic Functions and Their Operators* (Code: SS 21A), **Mirjana Jovovic** and **Wayne Smith**, University of Hawaii.

*Sparsity, Randomness, and Optimization* (Code: SS 15A), **Deanna Needell** and **Jamie Haddock**, University of California, Los Angeles.

*Spectral Geometry: The Length and Laplace Spectra of Riemannian Manifolds* (Code: SS 25A), **Benjamin Linowitz**, Oberlin College, and **Jeffrey S. Meyer**, California State University at San Bernardino.

*Stability and Singularity in Fluid Dynamics* (Code: SS 40A), **Tristan Buckmaster**, Princeton University, **Steve Shkoller**, University of California, Davis, and **Vlad Vicol**, Princeton University.

*Structural Graph Theory* (Code: SS 30A), **Zixia Song**, University of Central Florida, **Martin Rolek**, College of William and Mary, and **Yue Zhao**, University of Central Florida.

*The Mathematics of Cryptography* (Code: SS 18A), **Shahed Sharif**, California State University, San Marcos, and **Alice Silverberg**, University of California, Irvine.

*Three-dimensional Floer Theory, Contact Geometry, and Foliations* (Code: SS 6A), **Joan Licata**, Australian National University, and **Robert Lipshitz**, University of Oregon.

*Topics at the Interface of Analysis and Geometry* (Code: SS 38A), **Alex Austin** and **Sylvester Eriksson-Bique**, University of California, Los Angeles.

*Valuations on Algebraic Function Fields and Their Subrings* (Code: SS 46A), **Ron Brown**, University of Hawaii, **Steven Dale Cutkosky**, University of Missouri, and **Franz-Viktor Kuhlmann**, University of Szczecin.

*What is Happening in Mathematical Epidemiology? Current Theory, New Methods, and Open Questions* (Code: SS 52A), **Olivia Prosper**, University of Kentucky.

# Hartford, Connecticut

University of Connecticut Hartford  
(Hartford Regional Campus)

April 13–14, 2019

Saturday – Sunday

## Meeting #1148

Eastern Section

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: February 2019

Program first available on AMS website: February 21, 2019

Issue of *Abstracts*: Volume 40, Issue 2

## Deadlines

For organizers: Expired

For abstracts: February 5, 2019

*The scientific information listed below may be dated. For the latest information, see [www.ams.org/amsmtg/sectional.html](http://www.ams.org/amsmtg/sectional.html).*

## Invited Addresses

**Olivier Bernardi**, Brandeis University, *Percolation on triangulations and a bijective path to Liouville quantum gravity*.

**Brian Hall**, Notre Dame University, *Eigenvalues of random matrices in the general linear group in the large- $N$  limit*.

**Christina Sormani**, Lehman College and CUNY Graduate Center, *Compactness Theorems for Sequences of Riemannian Manifolds*.

## Special Sessions

*If you are volunteering to speak in a Special Session, you should send your abstract as early as possible via the abstract submission form found at [www.ams.org/cgi-bin/abstracts/abstract.pl](http://www.ams.org/cgi-bin/abstracts/abstract.pl).*

*Algebraic Number Theory* (Code: SS 22A), **Harris Daniels**, Amherst College, and **Alvaro Lozano-Robledo** and **Erik Wallace**, University of Connecticut.

*Analysis, Geometry, and PDEs in Non-smooth Metric Spaces* (Code: SS 1A), **Vyron Vellis**, University of Connecticut, **Xiaodan Zhou**, Worcester Polytechnic Institute, and **Scott Zimmerman**, University of Connecticut.

*Banach Space Theory and Metric Embeddings* (Code: SS 11A), **Mikhail Ostrovskii**, St. John's University, and **Beata Randrianantoanina**, Miami University.

*Chip-firing and Divisor Theory* (Code: SS 19A), **Caroline Klivans**, Brown University, and **David Perkinson**, Reed College.

*Cluster Algebras and Related Topics* (Code: SS 12A), **Emily Gunawan** and **Ralf Schiffler**, University of Connecticut.

*Combinatorial Commutative Algebra and Polyhedral Geometry* (Code: SS 13A), **Elie Alhajjar**, US Military Academy, and **McCabe Olsen**, Ohio State University.

*Computability Theory* (Code: SS 2A), **Damir Dzhafarov** and **Reed Solomon**, University of Connecticut, and **Linda Brown Westrick**, Pennsylvania State University.

*Convergence of Riemannian Manifolds* (Code: SS 17A), **Lan-Hsuan Huang** and **Maree Jaramillo**, University of Connecticut, and **Christina Sormani**, City University of New York Graduate Center and Lehman College.

*Discrete Dynamical Systems and Applications* (Code: SS 20A), **Elliott J. Bertrand**, Sacred Heart University, and **David McArdle**, University of Connecticut.

*Invariants of Knots, Links, and Low-dimensional Manifolds* (Code: SS 15A), **Patricia Cahn**, Smith College, and **Moshe Cohen** and **Adam Lowrance**, Vassar College.

*Knot Theory, the Colored Jones Polynomial, and Khovanov Homology* (Code: SS 18A), **Adam Giambrone**, Elmira College, and **Katherine Hall**, University of Connecticut.

*Mathematical Cryptology* (Code: SS 8A), **Lubjana Beshaj**, United States Military Academy, and **Jaime Gutierrez**, University of Cantabria, Santander, Spain.

*Mathematical Finance* (Code: SS 14A), **Oleksii Mostovyi**, University of Connecticut, **Gu Wang**, Worcester Polytechnic Institute, and **Bin Zhou**, University of Connecticut.

*Modeling and Qualitative Study of PDEs from Materials Science and Geometry*. (Code: SS 6A), **Yung-Sze Choi**, **Changfeng Gui**, and **Xiaodong Yan**, University of Connecticut.

*Recent Advances in Structured Matrices and Their Applications* (Code: SS 16A), **Maxim Derevyagin**, University of Connecticut, **Olga Holz**, University of California, Berkeley, and **Vadim Olshevsky**, University of Connecticut.

*Recent Development of Geometric Analysis and Nonlinear PDEs* (Code: SS 3A), **Ovidiu Munteanu**, **Lihan Wang**, and **Ling Xiao**, University of Connecticut.

*Representation Theory of Quantum Algebras and Related Topics* (Code: SS 10A), **Drew Jaramillo**, University of Connecticut, **Garrett Johnson**, North Carolina Central University, and **Margaret Rahmoeller**, Roanoke College.

*Special Session on Regularity Theory of PDEs and Calculus of Variations on Domains with Rough Boundaries* (Code: SS 5A), **Murat Akman**, University of Connecticut, and **Zihui Zhao**, University of Washington.

*Special Values of L-functions and Arithmetic Invariants in Families* (Code: SS 21A), **Ellen Eischen**, University of Oregon, **Yifeng Liu**, Yale University, **Liang Xiao**, University of Connecticut, and **Wei Zhang**, Massachusetts Institute of Technology.

*Stochastic Analysis and Related Fields* (Code: SS 7A), **Fabrice Baudoin**, University of Connecticut, and **Cheng Ouyang**, University of Illinois at Chicago.

*Stochastic Processes, Random Walks, and Heat Kernels* (Code: SS 4A), **Patricia Alonso Ruiz**, University of Connecticut, and **Phanuel Mariano**, Purdue University.

*Sub-Riemannian and CR Geometric Analysis* (Code: SS 9A), **Fabrice Baudoin**, University of Connecticut, and **Luca Capogna**, Worcester Polytechnic Institute.

## Quy Nhon City, Vietnam

*Quy Nhon University*

**June 10–13, 2019**

*Monday – Thursday*

### Meeting #1149

Associate secretary: Brian D. Boe  
Announcement issue of *Notices*: April 2019  
Program first available on AMS website: To be announced  
Issue of *Abstracts*: To be announced

### Deadlines

For organizers: November 30, 2018  
For abstracts: To be announced

*The scientific information listed below may be dated. For the latest information, see [www.ams.org/amsmtgs/interntmgs.html](http://www.ams.org/amsmtgs/interntmgs.html).*

### Invited Addresses

**Henry Cohn**, Microsoft Research, *To be announced.*  
**Robert Guralnick**, University of Southern California, *To be announced.*  
**Le Tuan Hoa**, Hanoi Institute of Mathematics, *To be announced.*  
**Nguyen Dong Yen**, Hanoi Institute of Mathematics, *To be announced.*  
**Zhiwei Yun**, Massachusetts Institute of Technology, *To be announced.*  
**Nguyen Tien Zung**, Toulouse Mathematics Institute, *To be announced.*

## Madison, Wisconsin

*University of Wisconsin-Madison*

**September 14–15, 2019**

*Saturday – Sunday*

### Meeting #1150

Central Section  
Associate secretary: Georgia Benkart  
Announcement issue of *Notices*: June 2019  
Program first available on AMS website: July 23, 2019  
Issue of *Abstracts*: Volume 40, Issue 3

### Deadlines

For organizers: February 14, 2019

For abstracts: July 16, 2019

*The scientific information listed below may be dated. For the latest information, see [www.ams.org/amsmtgs/sectional.html](http://www.ams.org/amsmtgs/sectional.html).*

### Invited Addresses

**Nathan Dunfield**, University of Illinois, Urbana-Champaign, *Title to be announced.*  
**Teena Gerhardt**, Michigan State University, *Title to be announced.*  
**Lauren Williams**, University of California, Berkeley, *Title to be announced* (Erdős Memorial Lecture).

### Special Sessions

*If you are volunteering to speak in a Special Session, you should send your abstract as early as possible via the abstract submission form found at [www.ams.org/cgi-bin/abstracts/abstract.pl](http://www.ams.org/cgi-bin/abstracts/abstract.pl).*

*Association Schemes and Related Topics – in Celebration of J.D.H. Smith’s 70th Birthday* (Code: SS 8A), **Kenneth W. Johnson**, Penn State University Abington, and **Sung Y. Song**, Iowa State University.

*Computability Theory in honor of Steffen Lempp’s 60th birthday* (Code: SS 6A), **Joseph S. Miller**, **Noah D. Schweber**, and **Mariya I. Soskova**, University of Wisconsin-Madison.

*Homological and Characteristic  $p > 0$  Methods in Commutative Algebra* (Code: SS 1A), **Michael Brown**, University of Wisconsin-Madison, and **Eric Canton**, University of Michigan.

*Model Theory* (Code: SS 5A), **Uri Andrews** and **Omer Mermelstein**, University of Wisconsin-Madison.

*Recent Developments in Harmonic Analysis* (Code: SS 3A), **Theresa Anderson**, Purdue University, and **Joris Roos**, University of Wisconsin-Madison.

*Recent Work in the Philosophy of Mathematics* (Code: SS 4A), **Thomas Drucker**, University of Wisconsin-Whitewater, and **Dan Slougher**, Furman University.

*Several Complex Variables* (Code: SS 7A), **Hanlong Fang** and **Xianghong Gong**, University of Wisconsin-Madison.

*Special Functions and Orthogonal Polynomials* (Code: SS 2A), **Sarah Post**, University of Hawai‘i at Manoa, and **Paul Terwilliger**, University of Wisconsin-Madison.

*Uncertainty Quantification Strategies for Physics Applications* (Code: SS 9A), **Qin Li**, University of Wisconsin-Madison, and **Tulin Kaman**, University of Arkansas.

# Binghamton, New York

*Binghamton University*

**October 12–13, 2019**

*Saturday – Sunday*

## Meeting #1151

Eastern Section

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: August 2019

Program first available on AMS website: August 29, 2019

Issue of *Abstracts*: Volume 40, Issue 3

## Deadlines

For organizers: March 12, 2019

For abstracts: August 20, 2019

*The scientific information listed below may be dated. For the latest information, see [www.ams.org/amsmtgs/sectional.html](http://www.ams.org/amsmtgs/sectional.html).*

## Invited Addresses

**Richard Kenyon**, Brown University, *Title to be announced.*

**Tony Pantev**, University of Pennsylvania, *Title to be announced.*

**Lai-Sang Young**, New York University, *Title to be announced.*

# Gainesville, Florida

*University of Florida*

**November 2–3, 2019**

*Saturday – Sunday*

## Meeting #1152

Southeastern Section

Associate secretary: Brian D. Boe

Announcement issue of *Notices*: September 2019

Program first available on AMS website: September 19, 2019

Issue of *Abstracts*: Volume 40, Issue 4

## Deadlines

For organizers: April 2, 2019

For abstracts: September 10, 2019

*The scientific information listed below may be dated. For the latest information, see [www.ams.org/amsmtgs/sectional.html](http://www.ams.org/amsmtgs/sectional.html).*

## Invited Addresses

**Jonathan Mattingly**, Duke University, *To be announced.*

**Isabella Novik**, University of Washington, *To be announced.*

**Eduardo Teixeira**, University of Central Florida, *To be announced.*

## Special Sessions

*If you are volunteering to speak in a Special Session, you should send your abstract as early as possible via the abstract submission form found at [www.ams.org/cgi-bin/abstracts/abstract.pl](http://www.ams.org/cgi-bin/abstracts/abstract.pl).*

*Geometric and Topological Combinatorics* (Code: SS 1A), **Bruno Benedetti**, University of Miami, **Steve Klee**, Seattle University, and **Isabella Novik**, University of Washington.

# Riverside, California

*University of California, Riverside*

**November 9–10, 2019**

*Saturday – Sunday*

## Meeting #1153

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: September 2019

Program first available on AMS website: September 12, 2019

Issue of *Abstracts*: Volume 40, Issue 4

## Deadlines

For organizers: April 9, 2019

For abstracts: September 3, 2019

*The scientific information listed below may be dated. For the latest information, see [www.ams.org/amsmtgs/sectional.html](http://www.ams.org/amsmtgs/sectional.html).*

## Invited Addresses

**Robert Boltje**, University of California, Santa Cruz, *Title to be announced.*

**Jonathan Novak**, University of California, San Diego, *Title to be announced.*

**Anna Skripka**, University of New Mexico, Albuquerque, *Title to be announced.*

## Special Sessions

*If you are volunteering to speak in a Special Session, you should send your abstract as early as possible via the abstract submission form found at [www.ams.org/cgi-bin/abstracts/abstract.pl](http://www.ams.org/cgi-bin/abstracts/abstract.pl).*

*Inverse Problems* (Code: SS 3A), **Hanna Makaruk**, Los Alamos National Laboratory, and **Robert Owczarek**, Uni-

versity of New Mexico, Albuquerque and University of New Mexico, Los Alamos.

*Random Matrices and Related Structures* (Code: SS 2A), **Jonathan Novak**, University of California, San Diego, and **Karl Liechty**, De Paul University.

*Topics in Operator Theory* (Code: SS 1A), **Anna Skripka** and **Maxim Zinchenko**, University of New Mexico.

## Denver, Colorado

*Colorado Convention Center*

**January 15–18, 2020**

*Wednesday – Saturday*

### Meeting #1154

*Joint Mathematics Meetings, including the 126th Annual Meeting of the AMS, 103rd Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association of Symbolic Logic (ASL), with sessions contributed by the Society for Industrial and Applied Mathematics (SIAM)*

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: October 2019

Program first available on AMS website: November 1, 2019

Program issue of electronic *Notices*: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: April 1, 2019

For abstracts: To be announced

## Charlottesville, Virginia

*University of Virginia*

**March 13–15, 2020**

*Friday – Sunday*

Southeastern Section

Associate secretary: Brian D. Boe

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

## Medford, Massachusetts

*Tufts University*

**March 21–22, 2020**

*Saturday – Sunday*

Eastern Section

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

## Fresno, California

*California State University, Fresno*

**May 2–3, 2020**

*Saturday – Sunday*

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

## El Paso, Texas

*University of Texas at El Paso*

**September 12–13, 2020**

*Saturday – Sunday*

Central Section

Associate secretary: Georgia Benkart

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

## Washington, District of Columbia

*Walter E. Washington Convention Center*

**January 6–9, 2021**

*Wednesday – Saturday*

*Joint Mathematics Meetings, including the 127th Annual Meeting of the AMS, 104th Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association of Symbolic Logic (ASL), with sessions contributed by the Society for Industrial and Applied Mathematics (SIAM).*

Associate secretary: Brian D. Boe

Announcement issue of *Notices*: October 2020

Program first available on AMS website: November 1, 2020

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: April 1, 2020

For abstracts: To be announced

## Grenoble, France

*Université Grenoble Alpes*

**July 5–9, 2021**

*Monday – Friday*

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

## Buenos Aires, Argentina

*The University of Buenos Aires*

**July 19–23, 2021**

*Monday – Friday*

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

## Omaha, Nebraska

*Creighton University*

**October 9–10, 2021**

*Saturday – Sunday*

Central Section

Associate secretary: Georgia Benkart

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

## Seattle, Washington

*Washington State Convention Center and the Sheraton Seattle Hotel*

**January 5–8, 2022**

*Wednesday – Saturday*

Associate secretary: Georgia Benkart

Announcement issue of *Notices*: October 2021

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

# Boston, Massachusetts

*John B. Hynes Veterans Memorial  
Convention Center, Boston Marriott Hotel,  
and Boston Sheraton Hotel*

**January 4–7, 2023**

*Wednesday – Saturday*

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: October 2022

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

## **Deadlines**

For organizers: To be announced

For abstracts: To be announced