

# MEETINGS & CONFERENCES OF THE AMS

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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

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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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# 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 .

## Newark, Delaware

*University of Delaware*

**September 29–30, 2018**

*Saturday – Sunday*

### Meeting #1141

Eastern Section

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: June 2018

Program first available on AMS website: August 9, 2018

Issue of *Abstracts*: Volume 39, Issue 3

### Deadlines

For organizers: Expired

For abstracts: Expired

*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

**Leslie F Greengard**, Courant Institute, NYU and Flatiron Institute, Simons Foundation, *Linear and nonlinear inverse problems in imaging*.

**J. Elisenda Grigsby**, Boston College, *Braids, surfaces, and homological invariants*.

**Davesh Maulik**, MIT, *Enumerative geometry and quantum groups*.

### Special Sessions

*Advances in Numerical Approximation of Partial Differential Equations*, **Constantin Bacuta** and **Jingmei Qiu**, University of Delaware.

*Applied Algebraic Topology*, **Chad Giusti**, University of Delaware, and **Gregory Henselman**, Princeton University.

*Billiard Dynamics: Standard and Alternative Collision Models*, **Tim Chumley**, Mount Holyoke College, **Chris Cox**,

University of Delaware, and **Renato Feres**, Washington University in St. Louis.

*Commutative Algebra*, **Ela Celikbas**, West Virginia University, **Sema Gunturkun**, University of Michigan, and **Oana Veliche**, Northeastern University.

*Convex Geometry and Functional Inequalities*, **Mokshay Madiman**, University of Delaware, **Elisabeth Werner**, Case Western Reserve University, and **Artem Zvavitch**, Kent State University.

*Fixed Point Theory with Application and Computation*, **Clement Boateng Ampadu**, Boston, MA, **Penumarthy Parvateesam Murthy**, Guru Ghasidas Vishwavidyalaya, Bilaspur, India, **Naeem Saleem**, University of Management and Technology, Lahore, Pakistan, **Ya'el Ulrich Gaba**, Institut de Mathématiques et de Sciences Physiques (IMSP), Porto-Novo, Bénin, and **Xavier Udo-utun**, University of Uyo, Uyo, Nigeria.

*Graph Theory*, **Sebastian M. Cioabă**, University of Delaware, **Brian Kronenthal**, Kutztown University of Pennsylvania, **Felix Lazebnik**, University of Delaware, and **Wing Hong Tony Wong**, Kutztown University of Pennsylvania.

*Interplay between Analysis and Combinatorics*, **Mahya Ghandehari** and **Dominique Guillot**, University of Delaware.

*Modern Quasiconformal Analysis and Geometric Function Theory*, **David Herron**, University of Cincinnati, and **Yuk-J Leung**, University of Delaware.

*Nonlinear Water Waves and Related Problems*, **Philippe Guyenne**, University of Delaware.

*Operator and Function Theory*, **Kelly Bickel**, Bucknell University, **Michael Hartz**, Washington University, St. Louis, **Constanze Liaw**, University of Delaware, and **Alan Sola**, Stockholm University.

*Probability, Combinatorics, and Statistical Mechanics*, **Nayantara Bhatnagar** and **Douglas Rizzolo**, University of Delaware.

*Quantum Correlation Sets in Quantum Information Theory*, **Elie Alhajjar** and **Travis B. Russell**, US Military Academy.

*Recent Advances in Nonlinear Schrödinger Equations*, **Alexander Pankov**, Morgan State University, **Junping**

**Shi**, College of William and Mary, and **Jun Wang**, Jiangsu University.

*Recent Analytic and Numeric Results on Nonlinear Evolution Equations*, **Xiang Xu**, Old Dominion University, and **Wujun Zhang**, Rutgers University.

*Representations of Infinite Dimensional Lie Algebras and Applications*, **Marco Aldi**, Virginia Commonwealth University, **Michael Penn**, Randolph College, and **Juan Villarreal**, Virginia Commonwealth University.

*Stochastic Processes in Mathematical Biology*, **Yao Li**, University of Massachusetts Amherst, and **Abhyudai Singh**, University of Delaware.

*The Mathematics of Swimmers and Active Particles*, **Louis Rossi**, University of Delaware, and **Enkeleida Lushi**, Flatiron Institute.

## Ann Arbor, Michigan

University of Michigan, Ann Arbor

October 20–21, 2018

Saturday – Sunday

### Meeting #1143

Central Section

Associate secretary: Georgia Benkart

Announcement issue of *Notices*: July 2018

Program first available on AMS website: August 30, 2018

Issue of *Abstracts*: Volume 39, Issue 4

### Deadlines

For organizers: Expired

For abstracts: Expired

*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

**Elena Fuchs**, University of California, Davis, *Primes and local to global in circle packings*.

**Andrew Putman**, University of Notre Dame, *The mapping class group of a surface*.

**Charles K Smart**, The University of Chicago, *The Abelian sandpile and circle packings*.

### Special Sessions

*Advances in Commutative Algebra*, **Jack Jeffries**, University of Michigan, **Linquan Ma**, Purdue University, and **Karl Schwede**, University of Utah.

*Advances on Analytical and Geometric Aspects of Differential Equations*, **Alessandro Arsie**, **Chunhua Shan**, and **Ekaterina Shemyakova**, University of Toledo.

*Analytical and Numerical Aspects of Turbulent Transport*, **Michele Coti Zelati**, Imperial College London, and **Ian Tobasco** and **Karen Zaya**, University of Michigan.

*Aspects of Geometric Mechanics and Dynamics*, **Anthony M Bloch** and **Marta Farre Puiggali**, University of Michigan.

*Bio-inspired Mechanics and Propulsion*, **Silas Alben**, University of Michigan, and **Longhua Zhao**, Case Western Reserve University.

*Canonical Operators in Several Complex Variables and Related Topics*, **David Barrett** and **Luke Edholm**, University of Michigan, and **Yunus Zeytuncu**, University of Michigan, Dearborn.

*Cell Motility: Models and Applications*, **Magdalena Stolarska**, University of St. Thomas, and **Nicoleta Tarfulea**, Purdue University Northwest.

*Cluster Algebra, Poisson Geometry, and Related Topics*, **Eric Bucher**, Michigan State University, and **Maitreyee Kulkarni** and **Bach Nguyen**, Louisiana State University.

*Combinatorics in Algebra and Algebraic Geometry*, **Zachary Hamaker**, **Steven Karp**, and **Oliver Pechenik**, University of Michigan.

*Commutative Algebra and Complexity*, **Harm Derksen**, **Francesca Gandini**, and **Visu Makam**, University of Michigan.

*Commutative Ring Theory*, **Joe Stickles**, Millikin University, and **Darrin Weber**, University of Evansville.

*Ergodic and Topological Quantum Systems*, **Matthew Cha**, **Ilya Kachkovskiy**, and **Shiwen Zhang**, Michigan State University.

*Extensions-Interpolation-Shape Matching in  $R^d$ , Symmetry-Invariance, Algorithms and Related Topics*, **Steven Damelin**, American Mathematical Society, and **Nir Sharon**, Princeton University.

*From Hyperelliptic to Superelliptic Curves*, **Tony Shaska**, Oakland University, **Nicola Tarasca**, Rutgers University, and **Yuri Zarhin**, Pennsylvania State University.

*Geometry of Submanifolds, in Honor of Bang-Yen Chens 75th Birthday*, **Alfonso Carriazo**, University of Sevilla, **Ivko Dimitric**, Penn State Fayette, **Yun Myung Oh**, Andrews University, **Bogdan D. Suceava**, California State University, Fullerton, **Joeri Van der Veken**, University of Leuven, and **Luc Vrancken**, Universite de Valenciennes.

*Interactions between Algebra, Machine Learning and Data Privacy*, **Jonathan Gryak**, University of Michigan, **Kelsey Horan**, CUNY Graduate Center, **Delaram Kahrobaei**, CUNY Graduate Center and New York University, **Kayvan Najarian** and **Reza Soroushmehr**, University of Michigan, and **Alexander Wood**, CUNY Graduate Center.

*Large Cardinals and Combinatorial Set Theory*, **Andres E. Caicedo**, Mathematical Reviews, and **Paul B. Larson**, Miami University.

*Mathematics of the Genome*, **Anthony Bloch**, **Daniel Burns**, and **Indika Rajapakse**, University of Michigan.

*Modern Trends in Integrable Systems*, **Deniz Bilman**, **Peter Miller**, **Amber Music**, and **Guilherme Silva**, University of Michigan.

*Multiplicities and Volumes: An Interplay Among Algebra, Combinatorics, and Geometry*, **Federico Castillo**, University of Kansas, and **Jonathan Montaña**, New Mexico State University.

*New Trends in Numerical Methods for Partial Differential Equations: Theory and Applications*, **Fatih Celiker**, Wayne State University.

*Nonlocality in Models for Kinetic, Chemical, and Population Dynamics*, **Christopher Henderson**, University of Chicago, **Stanley Snelson**, Florida Institute of Technology, and **Andrei Tarfulea**, University of Chicago.

*Probabilistic Methods in Combinatorics*, **Patrick Bennett** and **Andrzej Dudek**, Western Michigan University, and **David Galvin**, University of Notre Dame.

*Random Matrix Theory Beyond Wigner and Wishart*, **Elizabeth Meckes** and **Mark Meckes**, Case Western Reserve University, and **Mark Rudelson**, University of Michigan.

*Recent Advances in Nonlinear PDE*, **Jessica Lin**, McGill University, and **Russell Schwab**, Michigan State University.

*Recent Developments in Discontinuous Galerkin Methods for Differential Equations*, **Mahboub Baccouch**, University of Nebraska at Omaha.

*Recent Developments in Mathematical Analysis of Some Nonlinear Partial Differential Equations*, **Mimi Dai**, University of Illinois at Chicago.

*Recent Developments in the Mathematics of Tomography and Scattering*, **Shixu Meng**, University of Michigan, and **Yang Yang**, Michigan State University.

*Recent Trends on Local, Nonlocal and Fractional Partial Differential Equations*, **Pablo Raúl Stinga**, Iowa State University, **Peiyong Wang**, Wayne State University, and **Jiuyi Zhu**, Louisiana State University.

*Representations of Reductive Groups over Local Fields and Related Topics*, **Anne-Marie Aubert**, Institut Mathématiques de Jussieu, Paris Rive Gauche, **Jessica Fintzen**, IAS, University of Michigan, University of Cambridge, and **Camelia Karimianpour**, University of Michigan.

*Self-similarity and Long-range Dependence in Stochastic Processes*, **Takashi Owada**, Purdue University, **Yi Shen**, University of Waterloo, and **Yizao Wang**, University of Cincinnati.

*Structured Homotopy Theory*, **Thomas Fiore**, University of Michigan, Dearborn, **Po Hu** and **Dan Isaksen**, Wayne State University, and **Igor Kriz**, University of Michigan.

*The Mathematics of Decisions, Elections, and Games*, **Michael A. Jones**, Mathematical Reviews, and **David McCune**, William Jewell College.

*Topics in Graph Theory, Hypergraphs and Set Systems*, **John Engbers**, Marquette University, and **Cliff Smyth**, University of North Carolina, Greensboro.

# San Francisco, California

San Francisco State University

October 27–28, 2018

Saturday – Sunday

## Meeting #1144

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: July 2018

Program first available on AMS website: September 6, 2018

Issue of *Abstracts*: Volume 39, Issue 4

## Deadlines

For organizers: Expired

For abstracts: Expired

*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

**Srikanth B Iyengar**, University of Utah, *Finite free complexes over polynomial rings*.

**Sarah Witherspoon**, Texas A&M University, *Derivatives, derivations, and Hochschild cohomology*.

**Abdul-Aziz Yakubu**, Howard University, *Population cycles in discrete-time infectious disease models*.

## Special Sessions

*Advances in Operator Theory, Operator Algebras, and Operator Semigroups*, **Asuman G. Aksoy**, Claremont McKenna College, **Michael Hartglass**, Santa Clara University, **Zair Ibragimov**, California State University, Fullerton, and **Marat Markin**, California State University, Fresno.

*Algebraic Geometry*, **Emily Clader** and **Dustin Ross**, San Francisco State University, and **Mark Shoemaker**, Colorado State University.

*Analysis and Geometry of Fractals*, **Kyle Hambrook**, University of Rochester, **Chun-Kit Lai**, San Francisco State University, and **Sze-Man Ngai**, Georgia Southern University.

*Applied Harmonic Analysis: Frame Theory and Applications*, **Chun-Kit Lai** and **Shidong Li**, San Francisco State University.

*Big Data and Statistical Analytics*, **Tao He**, **Mohammad Kafai**, and **Alexandra Piryatinska**, San Francisco State University.

*Combinatorial and Categorical Aspects of Representation Theory*, **Nicholas Davidson** and **Jonathan Kujawa**, University of Oklahoma, and **Robert Muth**, Tarleton State University.

*Coupling in Probability and Related Fields*, **Sayan Banerjee**, University of North Carolina, Chapel Hill, and **Terry Soo**, University of Kansas.

*Geometric Analysis*, **Ovidiu Munteanu**, University of Connecticut, and **David Bao**, San Francisco State University.

*Geometric Methods in Hypercomplex Analysis*, **Paula Cerejeiras**, Universidade de Aveiro, **Matvei Libine**, Indiana University, Bloomington, and **Mihaela B. Vajiac**, Chapman University.

*Geometric and Analytic Inequalities and their Applications*, **Nicholas Brubaker**, **Isabel M. Serrano**, and **Bogdan D. Suceavă**, California State University, Fullerton.

*Homological Aspects in Commutative Algebra and Representation Theory*, **Srikanth B. Iyengar**, University of Utah, and **Julia Pevtsova**, University of Washington.

*Homological Aspects of Noncommutative Algebra and Geometry*, **Dan Rogalski**, University of California San Diego, **Sarah Witherspoon**, Texas A&M University, and **James Zhang**, University of Washington, Seattle.

*Markov Processes, Gaussian Processes and Applications*, **Alan Krinik** and **Randall J. Swift**, California State Polytechnic University.

*Mathematical Biology with a focus on Modeling, Analysis, and Simulation*, **Jim Cushing**, The University of Arizona, **Saber Elaydi**, Trinity University, **Suzanne Sindi**, University of California, Merced, and **Abdul-Aziz Yakubu**, Howard University.

*Mathematical Methods for the study of the Three Dimensional Structure of Biopolymers*, **Javier Arsuaga** and **Mariel Vazquez**, University of California Davis, Davis, and **Robin Wilson**, Cal Poly Pomona.

*Noncommutative Geometry and Fundamental Applications*, **Konrad Aguilar**, Arizona State University, and **Frederic Latremoliere**, University of Denver.

*Nonlocal PDEs via Harmonic Analysis*, **Tadele Mengesha**, University of Tennessee, Knoxville, and **Armin Schikorra**, University of Pittsburgh.

*Probabilistic and Statistical Problems in Stochastic Dynamics*, **Tao He**, **Mohammad Kafai**, and **Alexandra Piryatinska**, San Francisco State University.

*Research in Mathematics by Early Career Graduate Students*, **Michael Bishop**, **Marat Markin**, **Jenna Tague**, and **Khang Tran**, California State University, Fresno.

*Social Change In and Through Mathematics and Education*, **Federico Ardila** and **Matthias Beck**, San Francisco State University, **Jamylle Carter**, Diablo Valley Community College, and **Kimberly Seashore**, San Francisco State University.

*Statistical and Geometrical Properties of Dynamical Systems*, **Joanna Furno** and **Matthew Nicol**, University of Houston, and **Mariusz Urbanski**, University of North Texas.

*Topics in Operator Theory: CANCELLED*, **Anna Skripka** and **Maxim Zinchenko**, University of New Mexico.

# Fayetteville, Arkansas

University of Arkansas

November 3–4, 2018

Saturday – Sunday

## Meeting #1142

Southeastern Section

Associate secretary: Brian D. Boe

Announcement issue of *Notices*: July 2018

Program first available on AMS website: August 16, 2018

Issue of *Abstracts*: Volume 39, Issue 4

## Deadlines

For organizers: Expired

For abstracts: Expired

*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

**Mihalis Dafermos**, Princeton University, *On falling into black holes.*

**Jonathan Hauenstein**, University of Notre Dame, *Numerical algebraic geometry and optimization.*

**Kathryn Mann**, Brown University, *Group actions, geometry and rigidity.*

## Special Sessions

*Advances in Birational Geometry*, **Roi Docampo**, University of Oklahoma, and **Lance Edward Miller** and **Wenbo Niu**, University of Arkansas.

*Commutative Algebra*, **Alessandro De Stefani**, University of Nebraska-Lincoln, **Paolo Mantero**, University of Arkansas, and **Thomas Polstra**, University of Utah.

*Groups in Low-dimensional Topology and Dynamics*, **Matt Clay**, University of Arkansas, and **Kathryn Mann**, Brown University.

*Harmonic Analysis and Partial Differential Equations*, **Ariel Barton**, University of Arkansas, and **Simon Bortz**, University of Minnesota.

*Interactions Between Combinatorics and Commutative Algebra*, **Ashwini Bhat**, **Chris Francisco**, and **Jeffrey Mermin**, Oklahoma State University.

*Interactions Between Contact and Symplectic Geometry and Low-dimensional Topology*, **Jeremy Van Horn-Morris**, University of Arkansas, and **David Shea Vela-Vick**, Louisiana State University.

*Non-associative Algebraic Structures and their (Co)homology Theories*, **Michael Kinyon**, University of Denver, **Jozef H Przytycki**, The George Washington University, and **Petr Vojtechovsky** and **Seung Yeop Yang**, University of Denver.

*Numerical Methods for Nonlinear Systems*, **Jonathan Hauenstein** and **Tingting Tang**, University of Notre Dame.

*Operator Theory and Function Spaces of Analytic Functions*, **Daniel Luecking** and **Maria Tjani**, University of Arkansas.

*Partial Differential Equations in Several Complex Variables*, **Phillip Harrington** and **Andrew Raich**, University of Arkansas.

*Recent Advances in Mathematical Fluid Mechanics*, **Zachary Bradshaw**, University of Arkansas.

*Recent Developments on Fluid Turbulence*, **Eleftherios Gkioulekas**, University of Texas Rio Grande Valley.

*The Geometry of Curves and Applications*, **Jason Cantarella** and **Philipp Reiter**, University of Georgia.

*Validation and Verification Strategies in Multiphysics Problems*, **Tulin Kaman**, University of Arkansas.

## JMM 2019— Baltimore, Maryland

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

January 16–19, 2019  
Wednesday – Saturday

See page 1165 for full meeting listing and travel information.

## 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 22, 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

**Grigoriy Blekherman**, Georgia Institute of Technology, *To be announced.*

**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.

*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**, Geor-

gia 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 Guven 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

*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

**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.p1](http://www.ams.org/cgi-bin/abstracts/abstract.p1).*

*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 **Björn 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), **Ilija Binder** and **Michael Yampolsky**, University of Toronto, and **Malik Younsi**, University of Hawai'i 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, **Jes-**

**sica 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, **Lú (Tim) Hùng**, Hawai'i Pacific University, **Machiel van Frankenhuijsen**, Utah Valley University, and **Robert G. Niemeyer**, University of the Incarnate Word.

*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* (Code: SS 14A), **Christopher Drupieski**, DePaul University, and **Kay Magaard**, University of Arizona.

*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 in Variational Calculus and Non-Linear Partial Differential Equations* (Code: SS 44A), **Craig Cowan**, University of Manitoba, **Michinori Ishiwata**, Osaka Univer-



sity, **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**, Université de Provence.

*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, *Title to be announced.*

**Brian Hall**, Notre Dame University, *Title to be announced.*

**Christina Sormani**, City University of New York, *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).*

*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.

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

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

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

*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 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.

*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/internmtgs.html](http://www.ams.org/amsmtgs/internmtgs.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).*

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

*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.

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

# 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  
 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

## 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

Program issue of electronic *Notices*: 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

## 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 Conven-  
tion 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

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: To be announced

For abstracts: To be announced

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