

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.

Important Information About AMS Meetings: Potential organizers, speakers, and hosts should refer to page 127 in the January 2019 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 \LaTeX is necessary to submit an electronic form, although those who use \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 \LaTeX . Visit www.ams.org/cgi-bin/abstracts/abstract.pl. Questions about abstracts may be sent to abs-info@ams.org. Close attention should be paid to specified deadlines in this issue. Unfortunately, late abstracts cannot be accommodated.

Associate Secretaries of the AMS

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

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/. 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 for Symbolic Logic (ASL), with sessions contributed by the Society for Industrial and Applied Mathematics (SIAM).

The scientific information listed below may be dated. For the latest information, see 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*.

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

Lior Pachter, California Institute of Technology, *A mathematical introduction to the molecular biology of the cell.*

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

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**, Vanderbilt University.

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.

MEETINGS & CONFERENCES

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 KNERds: 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.

MEETINGS & CONFERENCES

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/amsmtg/sectional.html.

Invited Addresses

Grigoriy Blekherman, Georgia Institute of Technology, *Do sums of squares dream of free resolutions?*

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

Ming Liao, Auburn University, *Invariant Markov processes under actions of Lie groups.*

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 <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 Alabama, 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.

Accommodations

Participants should make their own arrangements directly with the hotel of their choice. Special discounted rates were negotiated with the hotels listed below. Rates quoted do not include the Alabama state hotel tax (13%), local taxes and hotel fees may apply. Participants must state that they are with the **American Mathematical Society's (AMS) Spring Southeast Sectional Meeting** to receive the discounted rate. The AMS is not responsible for rate changes or for the quality of the accommodations. **Hotels have varying cancellation and early checkout penalties; be sure to ask for details.**

The Hotel at Auburn University (*directly across the street from Mell Classroom Building*), 241 S College Street, Auburn, AL 36830 ; (334) 821-8200; www.auhcc.com. Rates are US\$142 per night for a double or king room and US\$182 per night for an executive room. To make a reservation online, please use this link: <https://gc.synxis.com/?Hotel=75989&template=RBE&shell=RBE&Group=190315MATH&arrive=03/13/2019>. The Hotel at Auburn

MEETINGS & CONFERENCES

University offers complimentary WiFi and a 24 hour fitness center. Overnight self-parking is US\$5 per night and overnight valet parking is US\$15 per night. Ariccia Trattoria, the hotel's Italian and Mediterranean inspired restaurant, offers fresh pizzas, pastas and grill entrees for dinner seven nights a week in addition to a daily breakfast buffet and lunch a la carte menu. There is also a jazz lounge and lobby bar on-site.

This property is a shuttle stop for Groome Transportation which services between Auburn and Atlanta International Airport;
<https://groometransportation.com/auburn/#gt-auburnsched-1>.

The deadline for reservations at this rate is **February 11, 2019**.

TownePlace Suites Auburn (1.7 miles from Mell Classroom Building), 1117 S College Street, Auburn, AL 36830 ; (334) 446-8390; <https://www.marriott.com/hotels/travel/csgau-towneplace-suites-auburn/?scid=bb1a189a-fec3-4d19-a255-54ba596febe2>. Rates are US\$119 per night for a king studio. To make a reservation online, please use this link: https://www.marriott.com/meeting-event-hotels/group-corporate-travel/groupCorp.mi?resLinkIdData=AMS%5ECSGAU%60AMSAMSA%60119.00%60USD%60false%604%603/14/19%603/17/19%602/15/19&app=resvlink&stop_mobi=yes. TownePlace Suites Auburn offers complimentary breakfast and complimentary parking. This property has high-speed internet and a fitness center.

This property is a shuttle stop for Groome Transportation which services between Auburn and Atlanta International Airport;
<https://groometransportation.com/auburn/#gt-auburnsched-1>.

The deadline for reservations at this rate is **February 15, 2019**.

Courtyard by Marriott Auburn (4.2 miles from Mell Classroom Building), 2420 West Pace Boulevard, Auburn, AL 36830 ; (334) 502-0111; <https://www.marriott.com/hotels/travel/csgca-courtyard-auburn/?scid=bb1a189a-fec3-4d19-a255-54ba596febe2>. Rates are US\$109 per night for a double or king room. To make a reservation online, please use this link: www.marriott.com/meeting-event-hotels/group-corporate-travel/groupCorp.mi?resLinkIdData=American%20Mathematical%20Society%5ECSGCA%60AMAAMAA%7CAMAAMAB%60109.00%60USD%60false%604%603/14/19%603/17/19%602/14/19&app=resvlink&stop_mobi=yes. The Courtyard by Marriott Auburn offers complimentary WiFi and a 24 hour fitness center.

The deadline for reservations at this rate is **February 14, 2019**.

Housing Warning

Please beware of aggressive housing bureaus that target potential attendees of a meeting. They are sometimes called "room poachers" or "room-block pirates" and these companies generally position themselves as a meeting's housing bureau, convincing attendees to unknowingly book outside the official room block. They call people who they think will more likely than not attend a meeting and lure them with room rates that are significantly less than the published group rate—for a limited time only. And people who find this offer tempting may hand over their credit card data, believing they have scored a great rate and their housing is a done deal. Unfortunately, this often turns out to be the start of a long, costly nightmare.

Note that some of these room poachers create fake websites on which they represent themselves as the organizers of the meeting and include links to book rooms, etc. The only official website for this meeting is ams.org and one that has the official AMS logo.

These housing bureaus are not affiliated with the American Mathematical Society or any of its meetings, in any way. The AMS would never call anyone to solicit reservations for a meeting. The only way to book a room at a rate negotiated for an AMS Sectional Meeting is via a listing on AMS Sectional Meetings pages or *Notices of the AMS*. The AMS cannot be responsible for any damages incurred as a result of hotel bookings made with unofficial housing bureaus.

Food Services

On Campus: There are many dining options on campus within walking distance of the meeting. The hours of the on-campus restaurants vary on the weekends. Please see a complete listing here: <https://auburn.campusdish.com/LocationsAndMenus>.

Off Campus: Auburn offers many dining options of all types of cuisine. There are many off campus eateries within half a mile of the meeting, mostly in the College Street/Magnolia Ave area. For more information on dining throughout Auburn as well as general information on visiting Auburn, please visit www.aotourism.com

Some of the nearby off-campus dining options include:

BurgerFi, 339 S College Street
burgerfi.com

Newks Eatery, 331 S Gay Street
newks.com

Taziki's, 339 S College Street

tazikiscafe.com

Fuji Sushi Bar, 1499 S College Street

fujisushiau.com

Little Italy Pizzeria, 129 E Magnolia Ave

littleitalyau.com

Big Blue Bagel and Deli, 120 N College Street

bigbluebagelanddeli.com

Cheeburger Cheeburger, 160 N College Street

cheeburger.com

Halftime Bar, 154 N College Street

halftimeauburn.com

Auburn Draft House, 165 E Magnolia Avenue

auburndrafthouse.com

Hamilton's on Magnolia, 174 E Magnolia Avenue

magnolia.hamiltonsgroup.com

Zoe's Kitchen, 234 W Magnolia Avenue

zoeskitchen.com

Taco Mama, 149 E Magnolia Avenue

tacomamaonline.com

Tacorita, 138 N College Street

tacoritaauburn.com

Ariccia Italian, 241 S College Street

auhcc.com/dining/ariccia-auburn

-restaurant

Bizilia's Café, 134 N College Street

biziliascafe.com

Registration and Meeting Information

Advance Registration: Advance registration for this meeting opens on **January 22, 2019**. Advance registration fees will be **US\$63** for AMS members, **US\$95** for nonmembers, and **US\$10** for students, unemployed mathematicians, and emeritus members. Participants may cancel registrations made in advance by emailing mmsb@ams.org. The deadline to cancel is the first day of the meeting.

On-site Information and Registration: The registration desk, AMS book exhibit, and coffee service will be located in the atrium of Mell Classroom Building located at 231 Mell Street. The Invited Address lectures will be located in Science Center Auditorium Building. Special Sessions and Contributed Paper Sessions will take place in Draughton Library-Mell Classroom Building and in Parker Hall. Please look for additional information about specific session room locations on the web and in the printed program. For further information on building locations, a campus map is available at <https://cws.auburn.edu/map>.

The registration desk will be open on Friday, March 15, 1:30 pm to 5:00 pm and Saturday, March 16, 7:30 am to 4:30 pm. The same fees listed above apply for on-site registration and are payable with cash, check or credit card.

Other Activities

Book Sales: Stop by the on-site AMS bookstore to review the newest publications and take advantage of exhibit discounts and free shipping on all on site orders! AMS and MAA members receive 40% off list price. Nonmembers receive a 25% discount. Not a member? Ask a representative about the benefits of AMS membership.

AMS Editorial Activity: An acquisitions editor from the AMS book program will be present to speak with prospective authors. If you have a book project that you wish to discuss with the AMS, please stop by the book exhibit.

Membership Activities During the meeting, stop by the AMS Membership Exhibit to learn about the benefits of AMS Membership. Members receive free shipping on purchases all year long and additional discounts on books purchased at meetings, subscriptions to Notices and Bulletin, discounted registration for world-class meetings and conferences, and more! Complimentary Refreshments will be served courtesy in part by the AMS Membership Department.

Special Needs

It is the goal of the AMS to ensure that its conferences are accessible to all, regardless of disability. The AMS will strive, unless it is not practicable, to choose venues that are fully accessible to the physically handicapped.

If special needs accommodations are necessary in order for you to participate in an AMS Sectional Meeting, please communicate your needs in advance to the AMS Meetings Department by:

- Registering early for the meeting
- Checking the appropriate box on the registration form, and
- Sending an email request to the AMS Meetings Department at mmsb@ams.org or meet@ams.org.

AMS Policy on a Welcoming Environment

The AMS strives to ensure that participants in its activities enjoy a welcoming environment. In all its activities, the AMS seeks to foster an atmosphere that encourages the free expression and exchange of ideas. The AMS supports equality of

MEETINGS & CONFERENCES

opportunity and treatment for all participants, regardless of gender, gender identity or expression, race, color, national or ethnic origin, religion or religious belief, age, marital status, sexual orientation, disabilities, or veteran status.

Harassment is a form of misconduct that undermines the integrity of AMS activities and mission.

The AMS will make every effort to maintain an environment that is free of harassment, even though it does not control the behavior of third parties. A commitment to a welcoming environment is expected of all attendees at AMS activities, including mathematicians, students, guests, staff, contractors and exhibitors, and participants in scientific sessions and social events. To this end, the AMS will include a statement concerning its expectations towards maintaining a welcoming environment in registration materials for all its meetings, and has put in place a mechanism for reporting violations. Violations may be reported confidentially and anonymously to 855-282-5703 or at www.mathsociety.ethicspoint.com. The reporting mechanism ensures the respect of privacy while alerting the AMS to the situation. Violations may also be brought to the attention of the coordinator for the meeting (who is usually at the meeting registration desk), and that person can provide advice about how to proceed.

For AMS policy statements concerning discrimination and harassment, see the AMS Anti-Harassment Policy at see the www.ams.org/about-us/governance/policy-statements/anti-harassment-policy.

Questions about this welcoming environment policy should be directed to the AMS Secretary at www.ams.org/about-us/governance/sec-contact.

Local Information and Maps

This meeting will take place on the *Auburn University* campus. A campus map can be found at <https://cws.auburn.edu/map>. Information about *Auburn University Department of Mathematics and Statistics* can be found at www.auburn.edu/cosam/departments/math/. Please visit the university website at <https://www.auburn.edu> for additional information on the campus.

Please watch the AMS website at www.ams.org/meetings/sectional/sectional.html for additional information on this meeting.

Parking

Parking is available at the Library Parking Deck (5 Roosevelt Dr) which is adjacent to Mell Classroom Building. A map showing the location of Library Parking Deck can be found here, auburn.edu/administration/parking/assets/pdf/CampusParkingMap.pdf.

Travel

This meeting will take place on the campus of *Auburn University* located in Auburn, Alabama. Mell Classroom Building is located at 231 Mell Street, Auburn, AL 36849.

By Air:

If you fly to Auburn, you can travel to either the **Hartsfield-Jackson Atlanta International Airport (Atlanta, GA)** or the **Birmingham International Airport (Birmingham, AL)**. The distance from either airport to Auburn University campus is approximately 100 miles.

Note: There is a one hour time change (Eastern Time to Central Time) when driving across the Georgia-Alabama state line.

Hartsfield-Jackson Atlanta International Airport (www.atlanta-airport.com) is located 100 miles from the Auburn University campus. Average travel time between the airport and campus is 1.5–2 hours.

There is a scheduled ground shuttle service between Hartsfield-Jackson and various points in Auburn via Groome Transportation. For more information or to make a reservation, please contact Groome Transportation: www.groometransportation.com (706)612-1155. The cost for a one-way shuttle service from Hartsfield-Jackson Atlanta International Airport to Auburn University is US\$43.00. The shuttle schedule can be found here: <https://groometransportation.com/auburn/#gt-auburnsched-1>

For information regarding all other ground transportation from Hartsfield-Jackson Atlanta International Airport, please visit: apps.atl.com/Passenger/GroundTransportation/Default.aspx

Birmingham International Airport (BHM), 5900 Airport Hwy, Birmingham, AL 35212, is 114 miles from Auburn University campus. Please visit the airport web site for a list of airlines and lists of cities with daily direct flights to BHM; <https://www.flybirmingham.com/>

Rental cars available at BHM can be found here, <https://www.flybirmingham.com/flying-in/ground-transportation/rental-cars/>. Taxis, limousine and shuttle services are also available at the Birmingham

International Airport. For a complete listing, please visit <https://www.flybirmingham.com/flying-in/ground-transportation/limosine-and-shuttle-service/>. Uber also services BHM. For more information, please visit the Birmingham International Airport website: www.flybirmingham.com.

By Train:

Amtrak does not have a train station in Auburn, the closest train station is in Anniston, AL. One can take a Greyhound bus from the Anniston, AL Amtrak Station to the Opelika, AL Greyhound Station which is about 10 miles from the meeting. Please contact Amtrak at Tel: 800-USA-RAIL, website: www.amtrak.com.

By Bus:

The closest Greyhound Bus station to Auburn University is located at 300 Columbus Pkwy, Opelika, AL 36801 which is about 10 miles from the meeting. Please contact Greyhound Tel: 1-800-231-2222; Website: www.greyhound.com.

By Car:

From Hartsfield-Jackson Atlanta International Airport

Depart S Terminal Parkway toward Airport Boulevard and bear right onto Airport Boulevard. Take ramp left for I-285 toward Montgomery. At exit 69, take ramp right for GA-14-SPUR toward South Fulton Parkway. Take ramp right for Buffington Road toward Red Oak. Turn left onto Buffington Road. Turn left onto Estes Drive, and then immediately turn right onto Glen Haven Point. Turn left onto Sable Way. Turn left onto Sable Trail. Turn right onto Sable Way. Turn left onto Sable Bay Point, and then immediately turn right onto Sable Run Road. Turn left onto Buffington Road. Turn right onto Flat Shoals Road. Take ramp left for I-85 S / GA-403 S. Entering Alabama, at exit 57, take ramp right and follow signs for Bent Creek Road. Turn right onto Bent Creek Road. Turn left onto E Glenn Avenue. Turn left onto E Samford Avenue. Turn right onto S Gay Street. Turn left onto Miller Avenue. Road name changes to Roosevelt Drive. Library Parking Deck will be on your right, 5 Roosevelt Drive.

From the Birmingham International Airport:

Depart toward Messer Airport Hwy and then, keep straight. Take ramp right for I-59 S / I-20 W. At exit 124A, take ramp left for I-65 South toward Montgomery. At exit 171, take ramp right for I-85 North toward Atlanta. At exit 51, take ramp right for US-29 toward Auburn. Bear left onto US-29 / AL-15 / AL-147 / S College Street. Keep straight onto AL-147 / S College St. Turn left onto Roosevelt Drive. Library Parking Deck will be on your right; 5 Roosevelt Drive.

From Montgomery:

Take I-85 North toward Atlanta. At exit 50, take ramp right toward Auburn Technology Parkway and then turn left onto Cox Rd / CR-12. Bear right onto Wire Rd / CR-137 and then turn right onto W Samford Avenue Turn left onto Mell Street and then turn right onto Roosevelt Drive. Library Parking Deck will be on your left. 5 Roosevelt Drive.

Car Rental: *Hertz* is the official car rental company for the meeting. To make a reservation accessing our special meeting rates online at www.hertz.com, click on the box "I have a discount," and type in our convention number (CV): CV#04N30008. You can also call *Hertz* directly at 800-654-2240 (US and Canada) or 1-405-749-4434 (other countries). At the time of reservation, the meeting rates will be automatically compared to other *Hertz* rates and you will be quoted the best comparable rate available.

For directions to campus, inquire at your rental car counter.

Local Transportation

Bus Service: Tiger Transit, servicing Auburn University and Auburn, has several bus stops in the area of the meeting. For a map and schedule, please visit: www.auburn.edu/administration/parking_transit/transit/index.php.

Taxi Service: Licensed, metered taxis are available in Auburn through Tiger Taxi; (334) 444-4444; www.auburntaxi.com.

Taxi Service: Both Lyft and Uber also operate in the Auburn area.

Weather

The average high temperature in Auburn for March is in the high 60s, Fahrenheit, and the average low is in the mid 40s, Fahrenheit. Visitors should be prepared for inclement weather and check weather forecasts in advance of their arrival.

Social Networking

Attendees and speakers are encouraged to tweet about the meeting using the hashtag #AMSmtg.

Information for International Participants

Visa regulations are continually changing for travel to the United States. Visa applications may take from three to four months to process and require a personal interview, as well as specific personal information. International participants should view the important information about traveling to the US found at <https://travel.state.gov/content/travel/en.html>. If you need a preliminary conference invitation in order to secure a visa, please send your request to cro@ams.org.

If you discover you do need a visa, the National Academies website (see above) provides these tips for successful visa applications:

* Visa applicants are expected to provide evidence that they are intending to return to their country of residence. Therefore, applicants should provide proof of “binding” or sufficient ties to their home country or permanent residence abroad. This may include documentation of the following:

- family ties in home country or country of legal permanent residence
- property ownership
- bank accounts
- employment contract or statement from employer stating that the position will continue when the employee returns;

* Visa applications are more likely to be successful if done in a visitor’s home country than in a third country;

* Applicants should present their entire trip itinerary, including travel to any countries other than the United States, at the time of their visa application;

* Include a letter of invitation from the meeting organizer or the US host, specifying the subject, location and dates of the activity, and how travel and local expenses will be covered;

* If travel plans will depend on early approval of the visa application, specify this at the time of the application;

* Provide proof of professional scientific and/or educational status (students should provide a university transcript).

This list is not to be considered complete. Please visit the websites above for the most up-to-date information.

Honolulu, Hawai‘i

University of Hawai‘i at Mānoa

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

Program issue of electronic *Notices*: To be announced

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.

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, *On the Erdos-Szekeres convex polygon problem*.

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 <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 Hawai'i at Mānoa.

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 Mānoa, 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 Mānoa, **Nigel Higson**, Penn State University, and **Rufus Willett**, University of Hawai'i at Mānoa.

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

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 **Bjørn Kjos-Hanssen**, University of Hawai'i at Mānoa.

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), **Ilia Binder** and **Michael Yampolsky**, University of Toronto, and **Malik Younsi**, University of Hawai'i at Mānoa.

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.

MEETINGS & CONFERENCES

Generalizations of Symmetric Spaces (Code: SS 22A), **Aloysius Helminck**, University of Hawai'i at Mānoa, **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 Hawai'i at Mānoa, **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, **Lü(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 - 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 Hawai'i.

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 Hawai'i, and **Jakob Kotas**, University of Hawai'i 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 Hawai'i, Mānoa, **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 Hawai'i at Mānoa, **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 Fornæss**, 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 Hawai'i.

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 Hawai'i, **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.

Accommodations

Participants should make their own arrangements directly with the hotel of their choice. Special discounted rates were negotiated with the hotels listed below. Rates quoted do not include the combined sales tax/hotel occupancy tax of 14.962%. Participants must state that they are with the **American Mathematical Society's (AMS) Spring Central and Western Joint Sectional Meeting** to receive the discounted rate. The AMS is not responsible for rate changes or for the quality of the accommodations. Hotels have varying cancellation and early checkout penalties; be sure to ask for details.

Pearl Waikiki, 415 Nāhua Street, Honolulu, HI 96815; (808) 922-1616; Reserve a room at [https://pearlwaikiki.reztrip.com/classic/en/special_offer?accessCode=AMS19&action=show&controller=landings&locale=en&offer_code=AMS19&rate_code\[\]=GAMS&rate_code\[\]=GAMS&starting_page=special_offer&vr=3](https://pearlwaikiki.reztrip.com/classic/en/special_offer?accessCode=AMS19&action=show&controller=landings&locale=en&offer_code=AMS19&rate_code[]=GAMS&rate_code[]=GAMS&starting_page=special_offer&vr=3). Rate is US\$ 110 plus tax per night for a city view room. Discounted amenity fee of US\$20 per night plus tax is required. Reservations can also be made by faxing to (808) 922-6223. Some amenities included in the amenity fee are free WiFi access in room and lobby, Blue Ray DVD rental, and coffee and tea service in lobby—7:00 am–9:00 am. This property is located 3.4 miles from campus. A bus stop is located in front of the hotel for easy access to public transportation. Reservations canceled less than 30 days prior to arrival will be charged one night's room rate plus tax. Cancellation and early check-out policies vary and penalties exist at this property; be sure to check when you make your reservation. The deadline for reservations at this reduced rate is **February 21, 2019**.

Ambassador Hotel Waikiki, 2040 Kuhio Avenue, Honolulu, HI 96815; (808) 941-7777 or fax reservation to (808) 951-3939; <https://ambassadorwaikiki.com/>. Reserve a room at https://ambassadorwaikiki.reztrip.com/classic/en/special_offer?action=show&controller=landings&locale=en&rate_code%5B%5D=AMSS&rate_code%5B%5D=AMSS&starting_page=special_offer&vr=3. Rate is US\$115 plus tax per night for a city view room with double beds and a kitchen. Discounted amenity fee of US\$15 plus tax per night is required and includes wireless internet access, fitness center, and business center. This property is located about 2 miles from campus. A bus stop is located in front of the hotel for easy access to public transportation. Reservation cancellations received after 30 days prior to the arrival will be subject to a cancellation fee of one night room rate and tax for each room cancelled. Cancellation and early check-out policies vary and penalties exist at this property; be sure to check when you make your reservation. The deadline for reservations at this reduced rate is **February 21, 2018**.

Courtyard by Marriott Waikiki Beach, 400 Royal Hawaiian Avenue, Honolulu, HI 96815; (808) 954-4000; Reserve room at https://www.marriott.com/meeting-event-hotels/group-corporate-travel/groupCorp.mi?resLinkIdData=AMS%20Spring%20Central%20%26%20Western%20Sectional%20Meeting%202019%5EHNL0W%60AMSAMSA%7CAMSAMSB%7CAMSAMSC%60159.00-175.00%60USD%60false%604%603/21/19%603/25/19%602/28/19&app=resvlink&stop_mobi=yes. Rates are US\$159 plus tax per night for a standard room or US\$175 plus tax per night for a deluxe room. Valet parking rate of US\$25 plus tax per night. Amenities include free WiFi and fitness center. This property is located about 2 miles from campus. Cancellation and early check-out policies vary and penalties exist at this property; be sure to check when you make your reservation. The deadline for reservations at these reduced rates is **February 22, 2019**.

Waikiki Beachcomber by Outrigger, 2300 Kalakaua Avenue, Honolulu, HI 96815; (808) 922-4646 phone, (808) 923-4889 fax; <https://www.waikikibeachcomber.com/>. Make reservations at https://be.synxis.com/?adult=1&arrive=2019-03-21&chain=18497&child=0¤cy=USD&depart=2019-03-22&group=190321AMER&hotel=79163&level=hotel&locale=en-US&rooms=1&sbe_ri=0&template=GROUP.

MEETINGS & CONFERENCES

Rate is US\$185 plus tax per night for a single or double city view room. Mandatory resort fee of US\$20 plus tax per night. Some of the amenities included in the resort fee are unlimited rides on the Waikiki Connection Trolley, WiFi (up to 4 devices), a shopping and discount coupon booklet, complimentary fruit-infused water in the lobby, and 24-hour Business Center access. Valet parking rate of US\$38 plus tax per night. This property is located 2.2 miles from campus. Cancellation and early check-out policies vary and penalties exist at this property; be sure to check when you make your reservation. The deadline for reservations at this reduced rate is **February 5, 2019**.

DoubleTree by Hilton Hotel Alana - Waikiki Beach, 1956 Ala Moana Boulevard, Honolulu, HI, 96815; (808) 941-7275; Reserve rooms at <https://doubletree.hilton.com/en/dt/groups/personalized/H/HNLKADT-AMS-20190318/index.jhtml>. Rate is US\$188 plus tax per night for a single or double guest room. Mandatory resort charge of US\$10 plus tax per night. The group rate includes basic guest internet access, two beach towels, DVD "Now" in-room movie and game rental, coffee and whole fruits in lobby, 22% discount on Hiking Hawaii Café Mānoa Falls Hike, 10% off food in Trees Restaurant, local and toll-free calls, heated outdoor pool and deck with Waikiki views, and fitness center. This property is located about 3 miles from the campus. Cancellation and early check-out policies vary and penalties exist at this property; be sure to check when you make your reservation. The deadline for reservations at this reduced rate is **February 21, 2019**.

Hilton Garden Inn Waikiki Beach, 2330 Kuhio Avenue, Honolulu, HI 96815; (808) 892-1820; <https://hiltongardeninn.hilton.com/en/gi/groups/personalized/H/HNLKUGI-AM2-20190318/index.jhtml>. Rate is US\$189 plus tax for a standard room. Mandatory resort fee of US\$25 per night plus tax. Mandatory portorage fee of US\$8.90 plus tax per night. Some of the amenities included in the resort fee are high speed WiFi access, two Hawaiian juice drinks per day at pool side, and in-room tea kettle with specialty tea. Valet parking rate of US\$39 plus tax per night. This property is located 2.2 miles from campus. Cancellation and early check-out policies vary and penalties exist at this property; be sure to check when you make your reservation. The deadline for reservations at this reduced rate is **February 6, 2019**.

Hilton Waikiki Beach, 2500 Kuhio Ave, Honolulu, HI 96815; (808) 921-5599; Use the following link for reservations: www.hilton.com/en/hi/groups/personalized/H/HNLWAHF-AMSSPR-20190321/index.jhtml, or call in-house reservations directly at (808) 921-5503, or email reservations requests to reservations@hiltonwaikiki.hilton.com with Group Code: AMSSPR. Rate is US\$190 plus tax per night for a city view single or double guest room. Some amenities included are city, mountain, or ocean views with private balconies, coffeemakers in rooms, complimentary poolside cabanas, and fitness center. Valet parking rate of US\$35 plus tax per night. Cancellation and early check-out policies vary and penalties exist at this property; be sure to check when you make your reservation. This property is located 3.2 miles from the campus. The deadline for reservations at this reduced rate is **February 19, 2019**.

Campus Housing

Participants are urged to reserve campus housing as soon as possible as availability may be limited. They should indicate that they are with the American Mathematical Society's (AMS) Spring Central and Western Joint Sectional Meeting. The AMS is not responsible for any rates or charges, or for the quality of these accommodations.

East-West Center, Housing Office, 1711 East-West Road, Honolulu, HI 96848-1711, Telephone - (808) 944-7805, Fax - (808) 944-7790, Email - EWC Housing Housing@EastWestCenter.org

Go to <https://www.eastwestcenter.org/about-ewc/housing> and go to the "Housing Facilities" section for housing options, details on how to reserve a room, list of room types, rate information, cancellation policies, etc. Note that Lincoln Hall has rooms with private bathrooms and more amenities. Hale Mānoa or Hale Kuahine offer more economical accommodations such as student dormitories. The preferred method for making a reservation is by email but participants may also call or fax their requests in.

Other Hotels

The AMS is not holding room blocks at the following properties. These properties are located near the university and are listed for your convenience. The AMS is not responsible for any rates or charges, or for the quality of these accommodations.

- **Hilton Hawaiian Village Waikiki Beach Resort**, 2005 Kalia Road, Honolulu, Hawai'i 96815, (808) 949-4321
- **Hyatt Place Waikiki Beach**, 175 Paoakalani Avenue, Honolulu, Hawai'i 96815, (808) 922 3861
- **Prince Resorts Hawaii**, 62-100 Kauna'oa Drive, Kamuela, Hawai'i 96743, (808) 956-1111
- **OHANA Waikiki East by Outrigger**, 150 Kaiulani Avenue, Honolulu, Hawai'i 96815-3292, (808) 922-5353
- **Waikiki Shore by Outrigger**, 2161 Kalia Road, Honolulu, Hawai'i 96815, (808) 922-3871
- **Waikiki Beach Marriott**, 2552 Kalakaua Avenue, Honolulu, Hawai'i 96815, (808) 922-6611
- **Sheraton Waikiki**, 2255 Kalakaua Avenue, Honolulu, Hawai'i 96815, (808) 922-4422
- **Hyatt Regency Waikiki Beach Resort & Spa**, 2424 Kalakaua Avenue, Honolulu, Hawai'i 96815, (808) 923-1234

- **Airbnb near Campus**, <https://www.airbnb.com/s/2500-Campus-Rd--Honolulu--HI-96822--USA>

Housing Warning

Please beware of aggressive housing bureaus that target potential attendees of a meeting. They are sometimes called “room poachers” or “room-block pirates” and these companies generally position themselves as a meeting’s housing bureau, convincing attendees to unknowingly book outside the official room block. They call people who they think will more likely than not attend a meeting and lure them with room rates that are significantly less than the published group rate—for a limited time only. And people who find this offer tempting may hand over their credit card data, believing they have scored a great rate and their housing is a done deal. Unfortunately, this often turns out to be the start of a long, costly nightmare.

These housing bureaus are not affiliated with the American Mathematical Society or any of its meetings, in any way. The AMS would never call anyone to solicit reservations for a meeting. The only way to book a room at a rate negotiated for an AMS Sectional Meeting is via a listing on AMS Sectional Meetings pages or Notices of the AMS. The AMS cannot be responsible for any damages incurred as a result of hotel bookings made with unofficial housing bureaus.

Food Services

On Campus: UH Mānoa has a variety of dining options and meal plans to suit your needs and tastes. Dining venues are conveniently located throughout campus and menus range from local plate lunches and bentos to deli sandwiches, international cuisine, vegetarian fare, grill favorites and more. Please see a complete listing here: manoa.hawaii.edu/food/.

Off Campus: Thanks to innovative chefs and delicious homegrown ingredients, Hawai‘i is fast becoming a hot spot for foodies. Fresh and local produce is at your fingertips throughout the region, whether you’re splurging on an elegant beachside dinner, feasting on kalua pig and poi at a luau or grabbing a quick al fresco lunch of grilled shrimp and slaw from a food truck.

In many locales, all around the island, you’ll find creative eateries taking full advantage of the island’s cattle ranches, fresh seafood and hearty vegetables grown in the island’s rich, volcanic soil. From traditional Hawaiian cuisine to refined New American fare and a variety of Asian cuisines, the choices are as vast as the landscape. No matter where you eat, a cup of locally grown coffee is the perfect way to finish off any meal. The local beans are so good, you might want to consider a tour and tasting at one of the nearby coffee farms in Kona or Kau.

Search through the many dining options on the island of Hawai‘i at <https://www.gohawaii.com/islands/oahu/restaurants>.

Some of the cafés near campus are:

- **Café Morey’s**, (808) 200-1995, 3106 Monsarrat Avenue, Diamond Head
- **Café Miro**, (808) 734-2737, 3446 Waialae Avenue
- **Sweet E’s Café**, (808) 737-7771, 1006 Kapahulu Avenue
- **Raintree Bakery Coffeehouse**, (808) 543-5993, 1110 Pensacola Street
- **Kaimana Farm Café**, (808) 737-2840, 845 Kapahulu Avenue, Kaimuki
- **Café DeLight**, (808) 737-0500, 3221 Waialae Avenue

Some of the restaurants near campus are:

- **Ba-Le Sandwich Shop**, 2445 Campus Road, 808-956-6462
- **Subway**, 2465 Campus Road, <https://www.subway.com>
- **Tsukuneya**, 1442 University Avenue, tsukuneyarobotagrill.com
- **Karai Crab**, 901 Hausten Street, karaicrab.com
- **LE Crepe Café**, 2515 Dole St Richardson Law School Courtyard, www.1ecrepecafe.com
- **Alan Wong’s Restaurant**, 1857 S King Street Fl 3RD, www.alanwongs.com
- **The Nook Neighborhood Bistro**, 1035 University Avenue, www.thenookhonolulu.com
- **Café Kaila**, Market City Shopping Center, 2919 Kapiolani Boulevard, www.cafe-kaila-hawaii.com
- **Da Spot**, 2469 S King Street, daspot.net

See a full list at https://www.tripadvisor.com/Restaurants-g29222-Oahu_Hawaii.html.

Registration and Meeting Information

Advance Registration: Advance registration for this meeting will open on **January 22, 2019**. Advance registration fees will be US\$63 for AMS members, US\$95 for nonmembers, and US\$10 for students, unemployed mathematicians, and emeritus members. Fees will be payable by cash, check, or credit card. Participants may cancel registrations made in ad-

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vance by e-mailing mmsb@ams.org. 100% refunds will be issued for any advance registrations canceled by the first day of the meeting. After this date, no refunds will be issued.

On-site Information and Registration: The registration desk, AMS book exhibit, and coffee service will be located in the Campus Center. The Invited Addresses will be held in Bilger Hall. Please look for additional information about specific session room locations, particularly for Special and Contributed Paper Sessions, on the web and in the printed program. For further information on building locations, a campus map is available at <https://manoa.hawaii.edu/campusmap/>.

The registration desk will be open on Friday 8:30 am–4:00 pm, Saturday 8:30 am–4:00 pm, and Sunday 9:00 am–noon. The same fees listed above will apply for on-site registration and will be payable by cash, check, or credit cards.

Membership Activities During the meeting, stop by the AMS Membership Exhibit to learn about the benefits of AMS Membership. Members receive free shipping on purchases all year long and additional discounts on books purchased at meetings, subscriptions to *Notices* and *Bulletin*, discounted registration for world-class meetings and conferences, and more!

Other Activities

Book Sales: Stop by the on-site AMS bookstore to review the newest publications and take advantage of exhibit discounts and free shipping on all on-site orders! AMS and MAA members receive 40% off list price. Nonmembers receive a 25% discount. Not a member? Ask a representative about the benefits of AMS membership.

AMS Editorial Activity: An acquisitions editor from the AMS book program will be present to speak with prospective authors. If you have a book project that you wish to discuss with the AMS, please stop by the book exhibit.

Membership Activities: During the meeting, stop by the AMS Membership Exhibit to learn about the benefits of AMS Membership. Members receive free shipping on purchases all year long and additional discounts on books purchased at meetings, subscriptions to *Notices* and *Bulletin*, discounted registration for world-class meetings and conferences, and more!

Complimentary Refreshments will be served courtesy in part by the AMS Membership Department.

Einstein Lecture: The Einstein Lecture in 2019 will be held at this meeting in the Kennedy Theatre, on Saturday, March 23, 2019, roughly between 6:15 pm and 7:30 pm. The lecturer will be **Barry Mazur**, Harvard University. The title of his talk will be *On the Arithmetic of Curves*. More details TBA.

Satellite Conference: Number Theory Conference, *Hawai'i Number Theory 2019 (HINT)*, March 18–21, 2019. *Hawai'i Number Theory 2019 (HINT)* will be held at UH Mānoa in the 4 days leading up to the AMS Joint Sectional. It aims to bring together a wide variety of number theorists by hosting 4 concurrently running special sessions. Also featuring 6 plenary speakers, *HINT* is a great opportunity to extend your 3 days of math to a full week! See more details at math.hawaii.edu/HINT2019/.

Special Needs

It is the goal of the AMS to ensure that its conferences are accessible to all, regardless of disability. The AMS will strive, unless it is not practicable, to choose venues that are fully accessible to the physically handicapped.

If special needs accommodations are necessary in order for you to participate in an AMS Sectional Meeting, please communicate your needs in advance to the AMS Meetings Department by:

- Registering early for the meeting
- Checking the appropriate box on the registration form, and
- Sending an email request to the AMS Meetings Department at mmsb@ams.org or meet@ams.org.

AMS Policy on a Welcoming Environment

The AMS strives to ensure that participants in its activities enjoy a welcoming environment. In all its activities, the AMS seeks to foster an atmosphere that encourages the free expression and exchange of ideas. The AMS supports equality of opportunity and treatment for all participants, regardless of gender, gender identity or expression, race, color, national or ethnic origin, religion or religious belief, age, marital status, sexual orientation, disabilities, or veteran status.

Harassment is a form of misconduct that undermines the integrity of AMS activities and mission.

The AMS will make every effort to maintain an environment that is free of harassment, even though it does not control the behavior of third parties. A commitment to a welcoming environment is expected of all attendees at AMS activities, including mathematicians, students, guests, staff, contractors and exhibitors, and participants in scientific sessions and social events. To this end, the AMS will include a statement concerning its expectations towards maintaining a welcoming environment in registration materials for all its meetings, and has put in place a mechanism for reporting violations. Vi-

olations may be reported confidentially and anonymously to 855-282-5703 or at www.mathsociety.ethicspoint.com. The reporting mechanism ensures the respect of privacy while alerting the AMS to the situation. Violations may also be brought to the attention of the coordinator for the meeting (who is usually at the meeting registration desk), and that person can provide advice about how to proceed.

For AMS policy statements concerning discrimination and harassment, see the AMS Anti-Harassment Policy. Questions about this welcoming environment policy should be directed to the AMS Secretary.

Travel

By Air: The nearest major airport is the Daniel K. Inouye International Airport (HNL / PHNL), airports.hawaii.gov/hnl/. This airport has international and domestic flights from Honolulu, Hawai'i and is located 9 miles from the center of the University of Hawai'i at Mānoa. See detailed terminal maps at airports.hawaii.gov/hnl/terminal-maps/.

Bus: See details at [https://moovit.com/?from=Daniel%20K.%20Inouye%20International%20Airport%20\(HNL\)&to=University%20of%20Hawaii%20at%20Manoa&fll=21.332115_-157.920351&tll=21.293536_-157.818379&customerId=4908&metroId=1144&lang=en](https://moovit.com/?from=Daniel%20K.%20Inouye%20International%20Airport%20(HNL)&to=University%20of%20Hawaii%20at%20Manoa&fll=21.332115_-157.920351&tll=21.293536_-157.818379&customerId=4908&metroId=1144&lang=en) on how to get to campus from the airport by bus.

Car Rental: Hertz is the official car rental company for the meeting. To make a reservation accessing our special meeting rates online at www.hertz.com, click on the words "Discount code" and type in our convention number (CV): 04N30009. You can also call Hertz directly at 800-654-2240 (US and Canada) or 405-749-4434 (other countries). At the time of your reservation, the meeting rates will be automatically compared to other Hertz rates and you will be quoted the best comparable rate available. Meeting rates include unlimited mileage and are subject to availability. Advance reservations are recommended, blackout dates may apply.

Ground Transportation: See airports.hawaii.gov/hnl/getting-to-from/ground-transportation/the-bus/ on bus service to and from the airport.

Taxicabs: AMPCO Express is the managing contractor of the Airport's Open Taxi System at Daniel K. Inouye International Airport. See details at airports.hawaii.gov/hnl/getting-to-from/ground-transportation/taxicab/.

Shuttles: The Roberts Hawaii Express Shuttle provides service to and from the airport daily. See details at airports.hawaii.gov/hnl/getting-to-from/ground-transportation/robertshawaiishuttle/.

TNCs: Transportation Network Companies (TNC), Uber and Lyft, are permitted to operate at the Daniel K. Inouye International Airport. The two designated areas on airport property that the TNCs will be able to pick up passengers are located on the second level median curb. One pickup location is at Terminal 1 (formerly the Interisland Terminal) across from Lobby 2 and the other is located at Terminal 2 (formerly the Overseas Terminal) across from Lobby 8. Pick up locations are subject to relocation as construction at the airport proceeds.

Local Information and Maps

Founded in 1907, the University of Hawai'i at Mānoa (UH Mānoa) is located at 2500 Campus Road, Honolulu, Hawai'i 96822. Its website is <https://manoa.hawaii.edu/>. See a printable campus map at <https://manoa.hawaii.edu/wp/wp-content/uploads/2017/09/uhammap.pdf>.

Parking: The University of Hawai'i at Mānoa provides visitors with a variety of parking locations within walking distance to campus. See details at <https://manoa.hawaii.edu/commuter/visitor.php>. See parking maps at <https://manoa.hawaii.edu/commuter/maps.html>.

Alternate Commuter Services: Visitors to UH Mānoa are encouraged to consider alternatives to driving to campus. See <https://manoa.hawaii.edu/commuter/waystomanoa.html> for details on these alternatives. See details at <https://manoa.hawaii.edu/commuter/transit.html> about bus and shuttle services on campus. Those that are staying within a three-mile radius of campus should consider walking, biking, or taking the free **Rainbow Shuttle** (manoa.hawaii.edu/commuter/rainbowshuttle.html).

Weather

In March, the islands of Hawai'i have an average daytime temperature of 24°C/75°F, with highs of 26°C/79°F in the peak of the day. Visitors should be prepared for occasional rain showers.

Social Networking

Attendees and speakers are encouraged to tweet about the meeting using the hashtag #AMSmtg.

Information for International Participants

Visa regulations are continually changing for travel to the United States. Visa applications may take from three to four months to process and require a personal interview, as well as specific personal information. International participants should view the important information about traveling to the US found at <https://travel.state.gov/content/travel.html>. If you need a preliminary conference invitation in order to secure a visa, please send your request to meet@ams.org.

If you discover you do need a visa, the Travel.State website (see above) provides these tips for successful visa applications:

1. Visa applicants are expected to provide evidence that they are intending to return to their country of residence. Therefore, applicants should provide proof of “binding” or sufficient ties to their home country or permanent residence abroad. This may include documentation of the following: Family ties in home country or country of legal permanent residence; property ownership bank accounts; and employment contract or statement from employer stating that the position will continue when the employee returns.
 2. Visa applications are more likely to be successful if done in a visitor’s home country than in a third country.
 3. Applicants should include their entire trip itinerary, including travel to any countries other than the United States, at the time of their visa application.
 4. Applicants should include a letter of invitation from the meeting organizer or the US host, specifying the subject, location and dates of the activity, and how travel and local expenses will be covered.
 5. If travel plans will depend on early approval of the visa application, specify this at the time of the application.
 6. Provide proof of professional scientific and/or educational status (students should provide a university transcript).
- This list is not to be considered complete. Please visit the website above for the most up-to-date information on how to get a visa.

Inquiries

For inquiries: meet@ams.org

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/amsmtgs/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.

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 Rantianantoanina**, 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 Alhajar**, 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: Expired

For abstracts: To be announced

The scientific information listed below may be dated. For the latest information, see 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.

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.

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 Mānoa, 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/amsmtg/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/amsmtg/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.

Fractal Geometry and Dynamical Systems (Code: SS 2A), **Mrinal Kanti Roychowdhury**, University of Texas Rio Grande Valley.

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/amsmtg/sectional.html.

Invited Addresses

Mohsen Aliabadi, University of Illinois at Chicago, Chicago, IL, *A connection between matchings in field extensions and the fundamental theorem of algebra.*

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.

Inverse Problems (Code: SS 3A), **Hanna Makaruk**, Los Alamos National Laboratory, and **Robert Owczarek**, University 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 for Symbolic Logic (ASL), with

sessions contributed by the Society for Industrial and Applied Mathematics (SIAM)

Associate Secretary: Michel L. Lapidus

MAA Associate Secretary: Hortensia Soto

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

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.

Curves, Jacobians, and Abelian Varieties (Code: SS 1A), **Andrew Obus**, Baruch College (CUNY), **Tony Shaska**, Oakland University, and **Padmavathi Srinivasan**, Georgia Institute of Technology.

Medford, Massachusetts

*Tufts University***March 21–22, 2020***Saturday – Sunday*

Eastern Section

Associate Secretary: Steven H. Weintraub

Program first available on AMS website: To be announced

Announcement issue of *Notices*: To be announcedIssue 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

State College, Pennsylvania

*Pennsylvania State University, University Park Campus***October 3–4, 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

Salt Lake City, Utah

University of Utah

October 24–25, 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

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

Mathematical Congress of the Americas 2021 (MCA2021), the third Mathematical Congress of the Americas (MCA).

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