

MEETINGS & CONFERENCES OF THE AMS

JANUARY TABLE OF CONTENTS

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

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

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

Abstracts: Speakers should submit abstracts on the easy-to-use interactive Web form. No knowledge of \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.

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See www.ams.org/meetings/ for the most up-to-date information on the meetings and conferences that we offer.

ASSOCIATE SECRETARIES OF THE AMS

Central Section: Georgia Benkart, University of Wisconsin-Madison, Department of Mathematics, 480 Lincoln Drive, Madison, WI 53706-1388; email: benkart@math.wisc.edu; telephone: 608-263-4283.

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Western Section: Michel L. Lapidus, Department of Mathematics, University of California, Surge Bldg., Riverside, CA 92521-0135; email: lapidus@math.ucr.edu; telephone: 951-827-5910.

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 .

San Diego, California

San Diego Convention Center and San Diego Marriott Hotel and Marina

January 10–13, 2018

Wednesday – Saturday

Meeting #1135

Joint Mathematics Meetings, including the 124th Annual Meeting of the AMS, 101st 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: Georgia Benkart

Announcement issue of *Notices*: October 2017

Program first available on AMS website: To be announced

Issue of *Abstracts*: Volume 39, Issue 1

Deadlines

For organizers: Expired

For abstracts: Expired

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtg/national.html.

Joint Invited Addresses

Gunnar Carlsson, Stanford University, *Topological Modeling of Complex Data* (AMS-MAA Invited Address).

Moon Duchin, Tufts University, *Political Geometry: Voting districts, “compactness,” and ideas about fairness* (MAA-AMS-SIAM Gerald and Judith Porter Public Lecture).

André Neves, University of Chicago, *Wow, so many minimal surfaces!* (AMS-MAA Invited Address).

Jill Pipher, Brown University, *Nonsmooth boundary value problems* (AWM-AMS Noether Lecture).

AMS Invited Addresses

Federico Ardila, San Francisco State University, *Algebraic structures on polytopes*.

Robert L. Bryant, Duke University, *The concept of Holonomy—its history and recent developments* (AMS Retiring Presidential Address).

Ruth Charney, Brandeis University, *Searching for hyperbolicity*.

Cynthia Dwork, Harvard University, *Privacy in the land of plenty* (AMS Josiah Willard Gibbs Lecture).

Dana Randall, Georgia Institute of Technology, *Emergent phenomena in random structures and algorithms*.

Edriss S. Titi, Texas A&M University; and The Weizmann Institute of Science, *The Navier-Stokes, Euler and related equations*.

Avi Wigderson, Institute for Advanced Study, *Alternate Minimization and Scaling algorithms: theory, applications and connections across mathematics and computer science* (AMS Colloquium Lectures: Lecture I).

Avi Wigderson, Institute for Advanced Study, *Proving algebraic identities* (AMS Colloquium Lectures: Lecture II).

Avi Wigderson, Institute for Advanced Study, *Proving analytic inequalities* (AMS Colloquium Lectures: Lecture III).

AMS Special Sessions

If you are volunteering to speak in a Special Session, you should send your abstract as early as possible via the abstract submission form found at jointmathematicsm meetings.org/meetings/abstracts/abstract.pl?type=jmm.

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

A Showcase of Number Theory at Liberal Arts Colleges, **Adriana Salerno**, Bates College, and **Lola Thompson**, Oberlin College.

Accelerated Advances in Mathematical Fractional Programming, **Ram Verma**, International Publications USA, and **Alexander Zaslavski**, Israel Institute of Technology.

Advances in Applications of Differential Equations to Disease Modeling, **Libin Rong**, Oakland University, **Elissa Schwartz**, Washington State University, and **Naveen K. Vaidya**, San Diego State University.

Advances in Difference, Differential, and Dynamic Equations with Applications, **Elvan Akin**, Missouri University S&T, and **John Davis**, Baylor University.

Advances in Operator Algebras, **Marcel Bischoff**, Vanderbilt University, **Ian Charlesworth**, University of California, Los Angeles, **Brent Nelson**, University of California, Berkeley, and **Sarah Reznikoff**, Kansas State University.

Advances in Operator Theory, Operator Algebras, and Operator Semigroups, **Asuman G. Aksoy**, Claremont McKenna College, **Zair Ibragimov**, California State University, Fullerton, **Marat Markin**, California State University, Fresno, and **Ilya Spitkovsky**, New York University, Abu Dhabi.

Algebraic, Analytic, and Geometric Aspects of Integrable Systems, Painlevé Equations, and Random Matrices, **Vladimir Dragovic**, University of Texas at Dallas, **Anton Dzhamay**, University of Northern Colorado, and **Sevak Mkrtchyan**, University of Rochester.

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.

Alternative Proofs in Mathematical Practice, **John W. Dawson, Jr.**, Pennsylvania State University, York.

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

Analysis of Nonlinear Partial Differential Equations and Applications, **Tarek M. Elgindi**, University of California, San Diego, and **Edriss S. Titi**, Texas A&M University and Weizmann Institute of Science.

Applied and Computational Combinatorics, **Torin Greenwood**, Georgia Institute of Technology, and **Jay Pantone**, Dartmouth College.

Arithmetic Dynamics, **Robert L. Benedetto**, Amherst College, **Benjamin Hutz**, Saint Louis University, **Jamie Juul**, Amherst College, and **Bianca Thompson**, Harvey Mudd College.

Beyond Planarity: Crossing Numbers of Graphs (a Mathematics Research Communities Session), **Axel Brandt**, Davidson College, **Garner Cochran**, University of South Carolina, and **Sarah Loeb**, College of William and Mary.

Bifurcations of Difference Equations and Discrete Dynamical Systems, **Arzu Bilgin** and **Toufik Khyat**, University of Rhode Island.

Boundaries for Groups and Spaces, **Joseph Maher**, CUNY College of Staten Island, and **Genevieve Walsh**, Tufts University.

Combinatorial Commutative Algebra and Polytopes, **Robert Davis**, Michigan State University, and **Liam Solus**, KTH Royal Institute of Technology.

Combinatorics and Geometry, **Federico Ardila**, San Francisco State University, **Anastasia Chavez**, MSRI and University of California, Davis, and **Laura Escobar**, University of Illinois Urbana Champaign.

Commutative Algebra in All Characteristics, **Neil Epstein**, George Mason University, **Karl Schwede**, University of Utah, and **Janet Vassilev**, University of New Mexico.

Computational Combinatorics and Number Theory, **Jeremy F. Alm**, Lamar University, and **David Andrews** and **Rob Hochberg**, University of Dallas.

Connections in Discrete Mathematics: Graphs, Hypergraphs, and Designs, **Amin Bahmanian**, Illinois State University, and **Theodore Molla**, University Illinois Urbana-Champaign.

Differential Geometry, **Vincent B. Bonini** and **Joseph E. Borzellino**, Cal Poly San Luis Obispo, **Bogdan D. Suceava**, California State University, Fullerton, and **Guofang Wei**, University of California, Santa Barbara.

Diophantine Approximation and Analytic Number Theory in Honor of Jeffrey Vaaler, **Shabnam Akhtari**, University of Oregon, **Lenny Fukshansky**, Claremont McKenna College, and **Clayton Petsche**, Oregon State University.

Discrete Dynamical Systems and Applications, **E. Cabral Balreira**, **Saber Elaydi**, and **Eddy Kwessi**, Trinity University.

Discrete Neural Networking and Applications, **Murat Adivar**, Fayetteville State University, **Michael A. Radin**, Rochester Institute of Technology, and **Youssef Raffoul**, University of Dayton.

Dynamical Algebraic Combinatorics, **James Propp**, University of Massachusetts, Lowell, **Tom Roby**, University of Connecticut, **Jessica Striker**, North Dakota State University, and **Nathan Williams**, University of California Santa Barbara.

Dynamical Systems with Applications to Mathematical Biology, **Guihong Fan**, Columbus State University, **Jing Li**, California State University Northridge, and **Chunhua Shan**, University of Toledo.

Dynamical Systems: Smooth, Symbolic, and Measurable (a Mathematics Research Communities Session), **Kathryn Lindsey**, Boston College, **Scott Schmieding**, Northwestern University, and **Kurt Vinhage**, University of Chicago.

Emergent Phenomena in Discrete Models, **Dana Randall**, Georgia Institute of Technology, and **Andrea Richa**, Arizona State University.

Emerging Topics in Graphs and Matrices, **Sudipta Mallik**, Northern Arizona University, **Keivan Hassani Monfared**, University of Calgary, and **Bryan Shader**, University of Wyoming.

Ergodic Theory and Dynamical Systems—to Celebrate the Work of Jane Hawkins, **Julia Barnes**, Western Carolina University, **Rachel Bayless**, Agnes Scott College, **Emily Burkhead**, Duke University, and **Lorelei Koss**, Dickinson College.

Extremal Problems in Approximations and Geometric Function Theory, **Ram Mohapatra**, University of Central Florida.

Financial Mathematics, Actuarial Sciences, and Related Fields, **Albert Cohen**, Michigan State University, **Nguyet Nguyen**, Youngstown State University, **Oana Mocioalca**, Kent State University, and **Thomas Wakefield**, Youngstown State University.

Fractional Difference Operators and Their Application, **Christopher S. Goodrich**, Creighton Preparatory School, and **Rajendra Dahal**, Coastal Carolina University.

Free Convexity and Free Analysis, **J. William Helton**, University of California, San Diego, and **Igor Klep**, University of Auckland.

Geometric Analysis, **Davi Maximo**, University of Pennsylvania, **Lu Wang**, University of Wisconsin-Madison, and **Xin Zhou**, University of California Santa Barbara.

Geometric Analysis and Geometric Flows, **David Glickenstein**, University of Arizona, and **Brett Kotschwar**, Arizona State University.

History of Mathematics, **Sloan Despeaux**, Western Carolina University, **Jemma Lorenat**, Pitzer College, **Clemency Montelle**, University of Canterbury, **Daniel Otero**, Xavier University, and **Adrian Rice**, Randolph-Macon College.

Homotopy Type Theory (a Mathematics Research Communities Session), **Simon Cho**, University of Michigan, **Liron Cohen**, Cornell University, and **Edward Morehouse**, Wesleyan 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.

Interactions of Inverse Problems, Signal Processing, and Imaging, **M. Zuhair Nashed**, University of Central Florida, **Willi Freeden**, University of Kaiserslautern, and **Otmar Scherzer**, University of Vienna.

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

Mathematical Analysis and Nonlinear Partial Differential Equations, **Hongjie Dong**, Brown University, **Peiyong Wang**, Wayne State University, and **Jiuyi Zhu**, Louisiana State University.

Mathematical Fluid Mechanics: Analysis and Applications, **Zachary Bradshaw** and **Aseel Farhat**, University of Virginia.

Mathematical Information in the Digital Age of Science, **Patrick Ion**, University of Michigan, **Olaf Teschke**, zbMath Berlin, and **Stephen Watt**, University of Waterloo.

Mathematical Modeling and Analysis of Infectious Diseases, **Kazuo Yamazaki**, University of Rochester.

Mathematical Modeling of Natural Resources, **Shandelle M. Henson**, Andrews University, and **Natali Hritonenko**, Prairie View A&M University.

Mathematical Modeling, Analysis and Applications in Population Biology, **Yu Jin**, University of Nebraska-Lincoln, and **Ying Zhou**, Lafayette College.

Mathematical Problems in Ocean Wave Modeling and Fluid Mechanics, **Christopher W. Curtis**, San Diego State University, and **Katie Oliveras**, Seattle University.

Mathematical Relativity and Geometric Analysis, **James Dilts** and **Michael Holst**, University of California, San Diego.

Mathematics Research from the SMALL Undergraduate Research Program, **Colin Adams**, **Frank Morgan**, and **Cesar E. Silva**, Williams College.

Mathematics of Gravitational Wave Science, **Andrew Gillette** and **Nikki Holtzer**, University of Arizona.

Mathematics of Quantum Computing and Topological Phases of Matter, **Paul Bruillard**, Pacific Northwest National Laboratory, **David Meyer**, University of California San Diego, and **Julia Plavnik**, Texas A&M University.

Metric Geometry and Topology, **Christine Escher**, Oregon State University, and **Catherine Searle**, Wichita State University.

Modeling in Differential Equations - High School, Two-Year College, Four-Year Institution, **Corban Harwood**, George Fox University, **William Skerbitz**, Wayzata High School, **Brian Winkel**, SIMIODE, and **Dina Yagodich**, Frederick Community College.

Multi-scale Modeling with PDEs in Computational Science and Engineering: Algorithms, Simulations, Analysis, and Applications, **Salim M. Haidar**, Grand Valley State University.

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

New Trends in Celestial Mechanics, **Richard Montgomery**, University of California Santa Cruz, and **Zhifu Xie**, University of Southern Mississippi.

Nilpotent and Solvable Geometry, **Michael Jablonski**, University of Oklahoma, **Megan Kerr**, Wellesley College, and **Tracy Payne**, Idaho State University.

Noncommutative Algebras and Noncommutative Invariant Theory, **Ellen Kirkman**, Wake Forest University, and **James Zhang**, University of Washington.

Nonlinear Evolution Equations of Quantum Physics and Their Topological Solutions, **Stephen Gustafson**, University of British Columbia, **Israel Michael Sigal**, University of Toronto, and **Avy Soffer**, Rutgers University.

Novel Methods of Enhancing Success in Mathematics Classes, **Ellina Grigorieva**, Texas Womans University, and **Natali Hritonenko**, Prairie View A&M University.

Open and Accessible Problems for Undergraduate Research, **Michael Dorff**, Brigham Young University, **Allison Henrich**, Seattle University, and **Nicholas Scoville**, Ursinus College.

Operators on Function Spaces in One and Several Variables, **Catherine Bénéteau**, University of South Florida, and **Matthew Fleeman** and **Constanze Liaw**, Baylor University.

Orthogonal Polynomials and Applications, **Abey Lopez-Garcia**, University of South Alabama, and **Xiang-Sheng Wang**, University of Louisiana at Lafayette.

Orthogonal Polynomials, Quantum Probability, and Stochastic Analysis, **Julius N. Esunge**, University of Mary Washington, and **Aurel I. Stan**, Ohio State University.

Quantum Link Invariants, Khovanov Homology, and Low-dimensional Manifolds, **Diana Hubbard**, University of Michigan, and **Christine Ruey Shan Lee**, University of Texas at Austin.

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 Trends in Analysis of Numerical Methods of Partial Differential Equations, **Sara Pollock**, Wright State University, and **Leo Rebholz**, Clemson University.

Research by Postdocs of the Alliance for Diversity in Mathematics, **Aloysius Helminck**, University of Hawaii - Manoa, and **Michael Young**, Iowa State University.

Research from the Rocky Mountain-Great Plains Graduate Research Workshop in Combinatorics, **Michael Ferrara**, University of Colorado Denver, **Leslie Hogben**, Iowa State University, **Paul Horn**, University of Denver, and **Tyrrell McAllister**, University of Wyoming.

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

Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, **Tamas Forgacs**, CSU Fresno, **Darren A. Narayan**, Rochester Institute of Technology, and **Mark David Ward**, Purdue University (AMS-MAA-SIAM).

Set Theory, Logic and Ramsey Theory, **Andrés Caicedo**, Mathematical Reviews, and **José Mijares**, University of Colorado, Denver (AMS-ASL).

Set-theoretic Topology (Dedicated to Jack Porter in Honor of 50 Years of Dedicated Research), **Nathan Carlson**, California Lutheran University, **Jila Niknejad**, University of Kansas, and **Lynne Yengulalp**, University of Dayton.

Special Functions and Combinatorics (in honor of Dennis Stanton's 65th birthday), **Susanna Fishel**, Arizona State University, **Mourad Ismail**, University of Central Florida, and **Vic Reiner**, University of Minnesota.

Spectral Theory, Disorder and Quantum Physics, **Rajinder Mavi** and **Jeffery Schenker**, Michigan State University.

Stochastic Processes, Stochastic Optimization and Control, Numerics and Applications, **Hongwei Mei**, University of Central Florida, **Zhixin Yang** and **Quan Yuan**, Ball State University, and **Guangliang Zhao**, GE Global Research.

Strengthening Infrastructures to Increase Capacity Around K-20 Mathematics, **Brianna Donaldson**, American Institute of Mathematics, **William Jaco** and **Michael Oehrtman**, Oklahoma State University, and **Levi Patrick**, Oklahoma State Department of Education.

Structure and Representations of Hopf Algebras: a Session in Honor of Susan Montgomery, **Siu-Hung Ng**, Louisi-

ana State University, and **Lance Small** and **Henry Tucker**, University of California, San Diego.

Theory, Practice, and Applications of Graph Clustering, **David Gleich**, Purdue University, and **Jennifer Webster** and **Stephen J. Young**, Pacific Northwest National Laboratory.

Topological Data Analysis, **Henry Adams**, Colorado State University, **Gunnar Carlsson**, Stanford University, and **Mikael Vejdemo-Johansson**, CUNY College of Staten Island.

Topological Graph Theory: Structure and Symmetry, **Jonathan L. Gross**, Columbia University, and **Thomas W. Tucker**, Colgate University.

Visualization in Mathematics: Perspectives of Mathematicians and Mathematics Educators, **Karen Allen Keene**, North Carolina State University, and **Mile Krajcevski**, University of South Florida.

Women in Symplectic and Contact Geometry and Topology, **Bahar Acu**, Northwestern University, **Ziva Myer**, Duke University, and **Yu Pan**, Massachusetts Institute of Technology (AMS-AWM).

Columbus, Ohio

Ohio State University

March 17–18, 2018

Saturday – Sunday

Meeting #1136

Central Section

Associate secretary: Georgia Benkart

Announcement issue of *Notices*: December 2017

Program first available on AMS website: January 31, 2018

Issue of *Abstracts*: Volume 39, Issue 2

Deadlines

For organizers: Expired

For abstracts: January 22, 2018

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtg/sectional.html.

Invited Addresses

Aaron Brown, University of Chicago, *Title to be announced.*

Tullia Dymarz, University of Wisconsin-Madison, *Title to be announced.*

June Huh, Institute for Advanced Study, *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.

MEETINGS & CONFERENCES

Advances in Integral and Differential Equations (Code: SS 26A), **Jeffrey T. Neugebauer**, Eastern Kentucky University, and **Min Wang**, Rowan University.

Algebraic Coding Theory and Applications (Code: SS 27A), **Heide Gluesing-Luerssen**, University of Kentucky, **Christine A. Kelley**, University of Nebraska-Lincoln, and **Steve Szabo**, Eastern Kentucky University.

Algebraic Combinatorics: Association Schemes, Finite Geometry, and Related Topics (Code: SS 15A), **Sung Y. Song**, Iowa State University, and **Bangteng Xu**, Eastern Kentucky University.

Algebraic Curves and Their Applications (Code: SS 17A), **Artur Elezi**, American University, **Monika Polak**, Maria Curie-Skłodowska University (Poland) and University of Information Science and Technology (Mac), and **Tony Shaska**, Oakland University.

Algebraic and Combinatorial Aspects of Tropical Geometry (Code: SS 11A), **Maria Angelica Cueto**, Ohio State University, **Yoav Len**, University of Waterloo, and **Martin Ulirsch**, University of Michigan.

Algebraic, Combinatorial, and Quantum Invariants of Knots and Manifolds (Code: SS 6A), **Cody Armond**, Ohio State University, Mansfield, **Micah Chrisman**, Monmouth University, and **Heather Dye**, McKendree University.

Analytical and Computational Advances in Mathematical Biology Across Scales (Code: SS 30A), **Veronica Ciocanel** and **Alexandria Volkening**, Mathematical Biosciences Institute.

Categorical, Homological and Combinatorial Methods in Algebra (Celebrating the 80th birthday of S. K. Jain) (Code: SS 28A), **Pedro A. Guil Asensio**, University of Murcia, **Ivo Herzog**, Ohio State University, **Andre Leroy**, University of Artois, and **Ashish K. Srivastava**, Saint Louis University.

Coherent Structures in Interfacial Flows (Code: SS 14A), **Benjamin Akers** and **Jonah Reeger**, Air Force Institute of Technology.

Commutative and Combinatorial Algebra (Code: SS 18A), **Jennifer Biermann**, Hobart and William Smith Colleges, and **Kuei-Nuan Lin**, Penn State University, Greater Allegheny.

Convex Bodies in Algebraic Geometry and Representation Theory (Code: SS 20A), **Dave Anderson**, Ohio State University, and **Kiumars Kaveh**, University of Pittsburgh.

Differential Equations and Applications (Code: SS 8A), **King-Yeung Lam** and **Yuan Lou**, Ohio State University, and **Qiliang Wu**, Michigan State University.

Function Spaces, Operator Theory, and Non-Linear Differential Operators (Code: SS 21A), **David Cruz-Uribe**, University of Alabama, and **Oswaldo Mendez**, University of Texas.

Geometric Methods in Shape Analysis (Code: SS 10A), **Sebastian Kurtek** and **Tom Needham**, Ohio State University.

Graph Theory (Code: SS 5A), **John Maharry**, Ohio State University, **Yue Zhao**, University of Central Florida, and **Xiangqian Zhou**, Wright State University.

Homological Algebra (Code: SS 4A), **Ela Celikbas** and **Olgur Celikbas**, West Virginia University.

Homotopy Theory (Code: SS 29A), **Ernest Fontes**, **John E. Harper**, **Crichton Ogle**, and **Gabriel Valenzuela**, Ohio State University.

Lefschetz Properties (Code: SS 24A), **Juan Migliore**, University of Notre Dame, and **Uwe Nagel**, University of Kentucky.

Mathematical Modeling of Neuronal Networks (Code: SS 36A), **Janet Best**, Ohio State University, **Alicia Prieto Langarica**, Youngstown State University, and **Pamela B. Pyzza**, Ohio Wesleyan University.

Multiplicative Ideal Theory and Factorization (in honor of Tom Lucas retirement) (Code: SS 7A), **Evan Houston**, University of North Carolina, Charlotte, and **Alan Loper**, Ohio State University.

Noncommutative Algebra and Noncommutative Algebraic Geometry (Code: SS 16A), **Jason Gaddis**, Miami University, and **Robert Won**, Wake Forest University.

Nonlinear Evolution Equations (Code: SS 9A), **John Holmes** and **Feride Tiglay**, Ohio State University.

Nonlinear Waves and Patterns (Code: SS 19A), **Anna Ghazaryan**, Miami University, **Stephane Lafortune**, College of Charleston, and **Vahagn Manukian** and **Alin Pogan**, Miami University.

Parameter Analysis and Estimation in Applied Dynamical Systems (Code: SS 35A), **Adriana Dawes**, The Ohio State University, and **Reginald L. McGee**, Mathematical Biosciences Institute.

Probabilistic and Extremal Graph Theory (Code: SS 32A), **Louis DeBiasio** and **Tao Jiang**, Miami University.

Probability in Convexity and Convexity in Probability (Code: SS 2A), **Elizabeth Meckes**, **Mark Meckes**, and **Elisabeth Werner**, Case Western Reserve University.

Quantum Symmetries (Code: SS 3A), **David Penneys**, The Ohio State University, and **Julia Plavnik**, Texas A & M University.

Recent Advances in Approximation Theory and Operator Theory (Code: SS 1A), **Jan Lang** and **Paul Nevai**, The Ohio State University.

Recent Advances in Finite Element Methods for Partial Differential Equations (Code: SS 31A), **Ching-shan Chou**, **Yukun Li**, and **Yulong Xing**, The Ohio State University.

Recent Advances in Packing (Code: SS 23A), **Joseph W. Iverson**, University of Maryland, **John Jasper**, South Dakota State University, and **Dustin G. Mixon**, The Ohio State University.

Recent Development of Nonlinear Geometric PDEs (Code: SS 12A), **Bo Guan**, Ohio State University, **Qun Li**, Wright State University, **Xiangwen Zhang**, University of California, Irvine, and **Fangyang Zheng**, Ohio State University.

Several Complex Variables (Code: SS 13A), **Liwei Chen**, **Kenneth Koenig**, and **Liz Vivas**, Ohio State University.

Stochastic Analysis in Infinite Dimensions (Code: SS 22A), **Parisa Fatheddin**, Air Force Institute of Technology, and **Arnab Ganguly**, Louisiana State University.

Structure and Representation Theory of Finite Groups (Code: SS 33A), **Justin Lynd**, University of Louisiana at Lafayette, and **Hung Ngoc Nguyen**, University of Akron.

Symmetry in Differential Geometry (Code: SS 34A), **Samuel Lin**, Dartmouth College, **Barry Minemyer**, Bloomsburg University, and **Ben Schmidt**, Michigan State University.

The Mathematics of Phylogenetics (Code: SS 25A), **Colby Long**, Mathematical Biosciences Institute.

Topology and Geometry in Data Analysis (Code: SS 37A), **Sanjeevi Krishnan** and **Facundo Memoli**, Ohio State University.

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 Ohio state hotel tax (17.5%), local taxes and hotel fees may apply. Participants must state that they are with the **American Mathematical Society's (AMS) Spring Central 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.**

Courtyard by Marriott Columbus Downtown, 35 West Spring St, Columbus, OH 43215; (614) 228-3200; www.marriott.com/hotels/travel/cmhcycourtyard-columbus-downtown. Rates are **US\$119** per night for a room. Amenities include free Wi-Fi in guest rooms; breakfast, dinner, *Starbucks*® & evening cocktails; enjoy on-site dining at *The Bistro*; indoor pool, whirlpool and fitness center. Valet parking is available for a fee of **US\$23** daily. This property is located about 3 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 rate is **February 14, 2018**.

Courtyard by Marriott Columbus/OSU, 780 Yard St, Columbus, OH 43212; (614) 453-4420; www.marriott.com/hotels/fact-sheet/travel/cmhwg-courtyard-columbus-osu. Rates are **US\$154** per night for a standard guest room. Group rate includes one complimentary welcome water per guest booked in the room block. Amenities include *The Bistro* for breakfast, drinks and dinner during the evening; free Wi-Fi throughout; the latest news, weather and airport conditions via *GoBoard*® technology; fitness center and indoor pool; and complimentary on-site parking. 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 minutes from campus. The deadline for reservations at a reduced rate is by **February 23, 2018**.

Courtyard Columbus Dublin, 5175 Post Rd, Dublin, OH 43017; (614) 764-9393; www.marriott.com/hotels/travel/cmhdb-courtyard-columbus-dublin. Rates are **US\$79** per night for standard guest rooms. Amenities include free Wi-Fi; on-site restaurant, *The Bistro*, serving breakfast; fitness center with cardio equipment and free weights; complimentary self parking and on-site laundry facilities. This property is located about a 17 minute drive 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 a reduced rate is **February 23, 2018**.

Courtyard Columbus Worthington, 7411 Vantage Dr, Columbus, OH 43235; (614) 436-7070; www.marriott.com/hotels/fact-sheet/travel/cmhcw-courtyard-columbus-worthington. Rates are **US\$84** per night for a standard guest room. Amenities include complimentary high-speed Wi-Fi access; *The Bistro*, open daily for breakfast and dinner; specialty *Starbucks* and evening cocktails; fitness center and indoor pool and on-site laundry facilities. This property is located approximately a 15 minute drive from campus. Complimentary on-site parking is available. 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 rate is **February 23, 2018**.

Crowne Plaza Columbus Downtown, 33 East Nationwide Blvd, Columbus, OH 43215; (614) 461-4100; www.ihg.com/crownplaza/hotels/us/en/columbus/cmhc/hotel/detail. Rates are **US\$159** per night for a standard room with double beds. Amenities include fitness room and free Wi-Fi. Self-parking rate is **US\$28** per day. This property is located about a 10 minute drive 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 rate is **February 14, 2018**.

Drury Inn and Suites Columbus Convention Center, 88 East Nationwide Blvd, Columbus, OH 43215; (614) 221-7008; www.druryhotels.com/locations/columbus-oh/drury-inn-and-suites-columbus-convention-center. Rates are **US\$125** per night for single or double occupancy in a non-smoking two queen beds deluxe room. Group room rate includes free hot breakfast served daily; free evening drinks and snacks from served daily from 5:30pm to 7:00pm; free Wi-Fi throughout the hotel and free soft drinks and popcorn in the lobby served daily from 3:00pm to 10:00pm. Amenities include business center, guest laundry facilities, fitness center and pool. On-site covered parking is available at a charge of **US\$12** per parking spot per day. This property is located about a 10 minute drive 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 rate is **February 16, 2018**.

Fairfield Inn and Suites Columbus OSU by Marriott, 3031 Olentangy River Rd, Columbus, OH 43202; (614) 267-1111; www.marriott.com/hotels/travel/cmhsu-fairfield-inn-and-suites-columbus-osu. Rates are **US\$139** per night for a room. Amenities include complimentary Wi-Fi, indoor pool, fitness room, free daily breakfast and complimentary self parking. This property is located just one mile from The Ohio State University. 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 rate is **February 14, 2018**.

Hampton Inn and Suites Columbus University Area, 3160 Olentangy River Rd, Columbus, OH 43202; (614)

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268-8700; hamptoninn3.hilton.com/en/hotels/ohio/hampton-inn-and-suites-columbus-university-area-CMHUNHX/index.html. Rates are US\$159 for a room. Amenities include complimentary hot breakfast served every morning, complimentary Wi-Fi access throughout the hotel, indoor swimming pool and 24-hour fitness center, 24-hour business center and complimentary shuttle service within a 3-mile radius of the hotel. This property is located about 1 mile 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 rate is **February 23, 2018**.

Hampton Inn and Suites Downtown Columbus, 501 North High St, Columbus, OH 43215; (614) 559-2000; hamptoninn3.hilton.com/en/hotels/ohio/hampton-inn-and-suites-columbus-downtown-CMHHSX/index.html. Rates are US\$124 for a standard single room, US\$134 for a standard double room and US\$144 for a king suite room. Amenities include complimentary hot breakfast, complimentary Wi-Fi access and swimming pool and 24-hour fitness center. This property is located about a 10 minute drive from campus. Valet parking is available for US\$25 a night. 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 rate is **February 16, 2018**.

Hyatt Regency Columbus, 350 North High St, Columbus, OH 43215; (614) 463-1234; columbus.regency.hyatt.com/en/hotel/home.html. Rates are US\$139 for a standard king room or a standard two double bed room. Amenities include indoor pool, sun deck, *StayFit* fitness facility and complimentary Wi-Fi access. This property is located about a 10 minute drive 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 rate is **February 16, 2018**.

Red Roof PLUS+ Columbus OSU, 441 Ackerman Rd, Columbus, OH 43202; (614) 267-9941; columbosu.redroof.com. Rates are US\$124 for a non-smoking room with two queen beds. This property is located about a 6 minute drive 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 rate is **February 16, 2018**.

Renaissance Columbus Downtown Hotel, 50 North Third St, Columbus, OH 43215; (614) 228-5050; www.marriott.com/hotels/travel/cmhbr-renaissance-columbus-downtown-hotel. Rates are US\$151 for a standard king room. Amenities include *Latitude 41* restaurant, *Bar 41*, fitness center, seasonal rooftop pool, whirlpool and sauna. This property is located about a 6 minute drive from campus. Valet parking is available for a fee of US\$26 a day. 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 rate is **February 23, 2018**.

Residence Inn Columbus Downtown, 36 East Gay St, Columbus, OH 43215; (614) 222-2610; www.marriott.com/hotels/travel/cmhrd-residence-inn-columbus-downtown. Rates are US\$119 for a studio suite room. Amenities include fully equipped kitchens in every suite, free Wi-Fi, complimentary hot breakfast buffet and on-site bar and restaurant, *Buckeye Bourbon House*. This property is located about a 10 minute drive 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 rate is **February 16, 2018**.

Varsity Inn, 1445 Olentangy River Rd, Columbus, OH 43212; (614) 291-2983; www.varsityinn.com. Rates are US\$89 for a room. Amenities include outdoor pool and free hotel-wide Wi-Fi. This property is located about a 2 minute drive 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 rate is **February 20, 2018**.

Varsity Inn, 1445 Olentangy River Rd, Columbus, OH 43212; (614) 291-2983; www.varsityinn.com. Rates are US\$89 for a room. Amenities include outdoor pool and free hotel-wide Wi-Fi. This property is located about a 2 minute drive 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 rate is **February 20, 2018**.

Food Services

On Campus: The below restaurants are scheduled to be open on Saturdays and Sundays. Please visit dining.osu.edu/ for a list of university restaurants and hours.

12th Ave. Bread Company, 251 W. 12th Ave (Kennedy Commons); open noon to 8:00pm on Saturdays and Sundays; serves sandwiches, soups, salads, and morning quiche and pastries. Indoor and outdoor seating is available.

EspressoOH, 1739 North High St (The Ohio Union); open 9:00am to 8:00pm on Saturday and 10:00am to 9:00pm on Sunday; serves specialty coffee and homemade gelato.

Connecting Grounds, 160 West Woodruff Ave; open 10:00am to 8:00pm on Saturdays and Sundays; serves espresso, specialty coffees, bagels, muffins and pastries.

Courtside Cafe, 337 Annie and John Glenn Ave (RPAC); open 11:00am to 8:00pm on Saturday and noon to 10:00pm on Sunday; serves sandwiches, pastas, wraps, pizza, salad, soup, sushi, yogurt and fruit.

Street Sweets and *Marketplace*, 1578 Neil Ave; open 10:00am to 7:00pm on Saturday and 10:00am to 8:00pm on Sunday; the *Marketplace* serves a variety of entrees and *StreetSweets* features an espresso bar at the entrance.

Berry Cafe, 1858 Neil Ave Mall (William Oxley Thompson Library); open 8:00am to 8:00pm on Saturday and 11:00am to 11:00pm on Sunday; serves grab 'n go sandwiches, yogurt parfaits, muffins, hummus, edamame, salads and coffee.

Sloopy's Diner, 1739 North High St (The Ohio Union); open 9:00am to 2:00am on Saturday and 10:00am to midnight on Sunday; serves breakfast favorites, diner-style classics and sandwiches in a 1950's-inspired diner.

Union Market, 1739 North High St (The Ohio Union); open 11:00am to 8:00pm on Saturday and 11:00am to 10:00pm on Sunday; offers classic favorites at the *Fired Up! Grill*, fresh salads at *Across the Field*, international fare at *Buckeye Passports*, and fresh deli sandwiches and wraps at *Dough-HIO*.

Woody's Tavern, 1739 North High St (The Ohio Union); open 1:00pm to 10:00pm on Saturday and Sunday; serves pizza, beer and wine, popcorn and good old-fashioned root beer.

Off Campus: *Buckeye Donuts* has been a favorite stop since it opened in 1969. The old school donut shop serves breakfast sandwiches and gyros, too. *The Gateway* on campus is home to good eats, too, like big eateries and bars such as *Mad Mex*, *Ugly Tuna Saloona* and *World of Beer*. Or there's always-favorite *Hound-dog's Pizza*, with their famous Smokin' Joes crusts. *Ethyl & Tank*, located behind *Newport Music Hall*, serves as a coffee shop, a bar, a lunch and dinner spot, and a weekend brunch haven. More information on restaurants and local attractions in the Columbus area can be found at www.experiencecolumbus.com/restaurants/near-osu.

Some options for coffee include:

- *Buckeye Donuts*, corner of 18th and High St, Columbus; alwaysopen.buckeye-donuts.com/; old school donut shop open 24 hours and serving breakfast sandwiches and gyros, too.
- *KAFE Kerouac*, 2250 N. High St, Columbus; (614) 299-2672; kafekerouac.com/; coffee house with locally roasted fair trade beans, local and imported beers and wine.
- *Starbucks*, 1782 N High St, Columbus; (614) 291-5692; Seattle-based coffeehouse chain known for its signature roasts, light bites and Wi-Fi availability.
- Some options for dining in the University District include:
- *Mad Mex*, South Campus Gateway, 1542 N. High St, Columbus; (614) 586-4007; www.madmex.com; California-Mexican food, microbrews and unique artwork.
- *Ugly Tuna Saloona*, South Campus Gateway, 1546 N. High St, Columbus; (614) 297-8862; www.uglytunasaloona.com; fresh fish and local music with 2nd floor patio.
- *World of Beer*, 1556 North High St, Columbus; (614) 403-3483; www.worldofbeer.com; serving a collection of dishes and tavern classics with craft beer.
- *Hounddog's Three Degree Pizza*, 2657 N High St, Columbus; (614) 261-4686; www.hounddogspizza.com; creative pizzas and classic subs about a mile from campus.
- *Ethyl & Tank*, 19 E. 13th Ave, Columbus; (614) 947-0140; www.ethylandtank.com; informal Southwestern meals & craft beers in a relaxed, brick-walled space with a video game arcade.
- *Bistro 2110 at the Blackwell*, 2110 Tuttle Park Pl, Columbus; (614) 247-2110; www.theblackwell.com/bistro-2110.html; hotel restaurant offering New American meals, plus brunch & lunch buffets, in an upscale setting.
- *Varsity Club Restaurant & Bar*, 278 W Lane Ave, Columbus; (614) 299-6269; www.varsityclubrestaurant-columbusoh.com; old-school sports bar with pub grub with TVs, patio seating and free Wi-Fi.

Registration and Meeting Information

Advance Registration: Advance registration for this meeting opens on **January 30, 2018**. Advance registration fees will be **US\$61** for AMS members, **US\$90** 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 lobby of Hitchcock Hall. The Invited Address lectures will be located in room 131 of Hitchcock Hall. Special Sessions and Contributed Paper Sessions will take place in the nearby classrooms. 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 www.osu.edu/map.

The registration desk will be open on Saturday, March 17, 7:30am to 4:00pm and Sunday, March 18, 8:00am to 12:00pm. 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 members receive 40 percent off list price. Nonmembers receive a 25 percent discount. AMS Members receive additional discounts on books purchased at meetings, subscriptions to *Notices* and *Bulletin*, discounted registration for world-class meetings and conferences, and more!

Complimentary Coffee will be served courtesy of the AMS Membership Department.

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.

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.

Local Information and Maps

This meeting will take place on the campus of The Ohio State University. A campus map can be found at www.osu.edu/map. Information about The Ohio State University Mathematics Department can be found at math.osu.edu. Please visit the university website at www.osu.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

Visitors and guests to The Ohio State University are required to purchase parking any time they park on campus. All parking on campus is allocated and signed for specific uses, and **parking regulations are enforced 24/7**. Visitor parking is available in parking garages, prevalent in the dense Academic Core and Wexner Medical Center areas, or surface lots, typically located in less dense areas along the campus perimeter.

CampusParc provides several garage options for visitor parking. Hourly parking rates are posted at the entrance of each pay facility and can also be found at osu.campusparc.com/home/visitors-patients/visitor-parking/garage-parking. All garage fees are due upon exit. Credit cards are accepted.

Most visitor garages are equipped with pay-on-foot machines. Customers receive a white entry ticket and keep it with them to make payment prior to returning to their vehicle, reducing backups at the exit gate. Once payment is made, customers receive a returned paid/validated ticket for use at the exit gate. Pay-on-foot machines accept cash, credit, and vouchers. *NOTE: Cash is not accepted at the exit gate.*

In garages not equipped with pay-on-foot machines, payment is made at the exit gate. Upon arrival at the exit gate, the customer should insert the white entry ticket into the pay-in-lane machine and pay the displayed amount due. Pay-in-lane machines accept cash, credit, and vouchers. Credit cards are the preferred method of payment to expedite exit. *NOTE: Pay-in-lane machines give change in coin only.*

Receipts for paid parking are offered from payment machines at the time of payment. If a receipt is not printed, customers can email osuinfo@campusparc.com with the time, date, garage location, and amount charged to receive a copy of their receipt via email.

Surface lot payment options are valid in surface lots only; if you park in a garage, all hourly fees must be paid upon exit. All parking rules are enforced 24/7. Surface lot parking is restricted on football Saturdays.

Surface lot payment options include single-space meters placed in high-demand areas to facilitate short-term parking. Meters are available to anyone (CampusParc permit holders or visitors) on campus provided that the meter fees are paid. All meters take US quarters, dimes, and nickels only; the maximum time allowed is posted on each meter.

Some surface lots include Pay-by-Plate machines located throughout campus to allow visitors to purchase parking. To pay for parking, walk to the nearest Pay-by-Plate machine (clearly marked by directional signs). Enter your license plate number and select the form of payment and amount of parking time desired, as indicated by printed instructions on the Pay-by-Plate machine. Since verification of payment is done via license plate, it is imperative to enter your license plate information correctly. Please verify all information before finalizing your transaction. Machines do not provide change or refunds. Check the campus parking map for Pay-by-Plate locations at osu.campusparc.com/docs/default-source/maps/campus-parking-map.pdf?sfvrsn=67.

Some surface lots allow *Parkmobile* as a payment option that uses pay-by-phone and smartphone applications. Customers can create a *Parkmobile* account online at www.parkmobile.com, via the *Parkmobile* app, or via their automated phone system at (877) 727-5009. After entering the required information and setting up an account, customers can begin "parking sessions" by accessing their account (via one of the three methods available) and confirming their license plate number, parking zone number, and intended duration of stay. Parking sessions can be terminated early or extended via the same method used to start the parking session.

Surface lot visitor permits may be purchased at the CampusParc Customer Service Center. Central Campus visitor permits are valid in any unrestricted surface lot spaces. Paid hourly parking is required for vehicles parked in marked hourly spaces, at single-space meters, or in parking garages. Permits are available in daily increments which are good for one calendar day. Vehicles parked overnight require the purchase of multiple day permits or paid hourly parking.

A campus parking map is available at osu.campusparc.com/docs/default-source/maps/campus-parking-map.pdf?sfvrsn=67. Additional information about parking on campus can be found at osu.campusparc.com/home/visitors-patients/visitor-parking/surface-lot-parking. Please call the CampusParc customer service line at (614) 688-0000 with parking inquiries.

A list of university parking rates are available at osu.campusparc.com/docs/default-source/documents/ratetable.pdf?sfvrsn=22.

Travel

This meeting will take place on the main campus of The Ohio State University located in Columbus, Ohio.

By Air: The John Glenn Columbus International Airport (CMH) is about 20 minutes from the Ohio State University and is the most convenient air travel choice. Please note, the drive could take longer during rush hour traffic. Please visit the airport web site for a list of airlines and lists of cities with daily direct flights; flycolumbus.com.

There are several options available for transportation to and from the airport.

The Central Ohio Transit Authority (COTA) provides direct bus service between the airport and downtown for only US\$2.75. It's called *AirConnect*, an affordable and easy way to reach downtown hotels and the Greater Columbus Convention Center. Purchase your ride pass with a credit card at the bus stop, which is just to the right of the taxi station. COTA's *AirConnect* service runs every 30 minutes, 7 days a week. Once downtown, COTA operates dozens of bus lines, including the free CBUS that connects the Brewery District, downtown and the Short North together. More details and a map of downtown Columbus *AirConnect* stops are available at www.cota.com/how-to-ride/airconnect. The COTA bus now provides real time updates on Google Maps and the COTA transit app.

Taxis and pick-up locations for ridesharing services are available on the ground transportation level of the terminal 24 hours a day. The electronic meter will compute your fare from John Glenn International to your destination. The approximate fare to travel to downtown Columbus is US\$25. For a rate chart of taxi fares visit flycolumbus.com/getting-to-from/taxis-rideshare.

There are eight car rental agencies located at the airport. Check-in counters are located on the ground floor of the parking garage and include *Alamo, Avis, Budget, Dollar, Enterprise, Hertz, National* and *Thrifty*. *car2go* members can pick up or drop off a car at *The Parking Spot*. For more information on *car2go* membership visit <https://www.car2go.com/US/en>.

Several companies provide shuttle and limo services in the area. A list of companies with phone numbers is available at flycolumbus.com/getting-to-from/shuttles-limos.

By Bus: The Columbus Greyhound Station is located at 111 E. Town Street in Columbus, about 5 miles from campus. For tickets and travel information visit their website at www.greyhound.com/default.aspx.

By Car: From John Glenn Columbus International Airport: From International Gateway follow signs for Interstate 670 W/US 62 W/Columbus. Take exit 2B to merge onto OH-315 N and take the Medical Cntr Dr exit toward King Ave.

From Ohio State University Airport: Follow W Case Rd and Godown Rd to Bethel Rd. Take OH-315 S to Ackerman Rd (signs for Ackerman Road/Dodridge St).

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

Walking, biking and personal cars are recommended to get around campus and Columbus.

By Bus: *The Campus Area Bus Service (CABS)* is a free transit service provided by The Ohio State University Transportation and Traffic Management. *CABS* is dedicated to providing clean, reliable, and hassle-free transportation on and around Ohio State's Columbus Campus. For schedules and routes visit ttm.osu.edu/cabs.

Bike Share: This program offers university students, faculty and staff members, and campus visitors an alternative option to traveling across campus and support the "park once" philosophy. Visitors can choose from the public annual rate of US\$75 or choose a 24-hour rental at US\$6 a day. Payment options include BuckID and credit card. Ride up to 2 hours at a time during the week; 3 hours at a time on weekends. Visit ttm.osu.edu/bikeshare to sign up.

Other options: Other local transportation options include *Uber*; www.uber.com and *Lyft*; www.lyft.com.

Weather:

The average weather in March in Columbus, Ohio is characterized by rapidly rising daily high temperatures, with daily highs increasing by 12°F, from 45°F to 57°F over the course of the month, and rarely exceeding 73°F or dropping below 31°F. Attendees are advised to wear coats and layered clothing. The weather can be unpredictable so umbrellas are also recommended.

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 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.

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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.

Nashville, Tennessee

Vanderbilt University

April 14–15, 2018

Saturday – Sunday

Meeting #1138

Southeastern Section

Associate secretary: Brian D. Boe

Announcement issue of *Notices*: January 2018

Program first available on AMS website: February 22, 2018

Issue of *Abstracts*: Volume 39, Issue 2

Deadlines

For organizers: Expired

For abstracts: February 13, 2018

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtgs/sectional.html.

Invited Addresses

Andrea Bertozzi, University of California Los Angeles, *Title to be announced* (Erdős Memorial Lecture).

J. M. Landsberg, Texas A & M University, *Title to be announced*.

Jennifer Morse, University of Virginia, *Title to be announced*.

Kirsten Wickelgren, Georgia Institute of Technology, *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.

Advances in Operator Algebras (Code: SS 7A), **Scott Atkinson**, **Dietmar Bisch**, **Vaughan Jones**, and **Jesse Peterson**, Vanderbilt University.

Algebraic Geometry, Representation Theory, and Applications (Code: SS 21A), **Shrawan Kumar**, University of North Carolina at Chapel Hill, **J. M. Landsberg**, Texas A&M University, and **Luke Oeding**, Auburn University.

Boundaries and Non-positive Curvature in Group Theory (Code: SS 15A), **Spencer Dowdall** and **Matthew Hallmark**, Vanderbilt University, and **Michael Hull**, University of Florida.

Commutative Algebra (Code: SS 8A), **Florian Enescu** and **Yongwei Yao**, Georgia State University.

Difference Equations and Applications (Code: SS 2A), **Michael A. Radin**, Rochester Institute of Technology, and **Youssef Raffoul**, University of Dayton, Ohio.

Evolution Equations and Applications (Code: SS 14A), **Marcelo Disconzi**, **Chenyun Luo**, **Giusy Mazzone**, and **Gieri Simonett**, Vanderbilt University.

Function Spaces and Operator Theory (Code: SS 9A), **Cheng Chu** and **Dechao Zheng**, Vanderbilt University.

Harmonic Analysis, Functional Analysis, and Their Applications (Code: SS 11A), **Akram Aldroubi** and **Keaton Hamm**, Vanderbilt University, **Michael Worthington**, Georgia Institute of Technology, and **Alex Powell**, Vanderbilt University.

Hermitian Geometry (Code: SS 18A), **Mehdi Lejmi**, Bronx Community College of CUNY, and **Rares Rasdeaconu** and **Ioana Suvaina**, Vanderbilt University.

Interactions between Geometry, Group Theory and Dynamics (Code: SS 13A), **Jayadev Athreya**, University of Washington, and **Caglar Uyanik** and **Grace Work**, Vanderbilt University.

Macdonald Polynomials and Related Structures (Code: SS 23A), **Jennifer Morse**, University of Virginia, and **Dan Orr** and **Mark Shimozone**, Virginia Polytechnic Institute and State University.

Mathematical Chemistry (Code: SS 10A), **Hua Wang**, Georgia Southern University.

Matroids and Related Structures (Code: SS 5A), **Carolyn Chun**, United States Naval Academy, **Deborah Chun** and **Tyler Moss**, West Virginia University Institute of Technology, and **Jakayla Robbins**, Vanderbilt University.

Partial Differential Equations and New Perspective of Variational Methods (Code: SS 16A), **Abbas Moameni**, Carleton University, **Futoshi Takahashi**, Osaka City University, **Michinori Ishiwata**, Osaka University, and **Craig Cowen**, University of Manitoba.

Probabilistic Models in Mathematical Physics (Code: SS 6A), **Robert Buckingham**, University of Cincinnati, **Seung-Yeop Lee**, University of South Florida, and **Karl Liechty**, DePaul University.

Quantization for Probability Distributions and Dynamical Systems (Code: SS 1A), **Mrinal Kanti Roychowdhury**, University of Texas Rio Grande Valley.

Random Discrete Structures (Code: SS 22A), **Lutz P Warnke**, Georgia Institute of Technology, and **Xavier Pérez-Giménez**, University of Nebraska-Lincoln.

Recent Advances in Mathematical Biology (Code: SS 12A), **Glenn Webb** and **Yixiang Wu**, Vanderbilt University.

Recent Advances on Complex Bio-systems and Their Applications (Code: SS 17A), **Pengcheng Xiao**, University of Evansville.

Recent Progress and New Directions in Homotopy Theory (Code: SS 20A), **Anna Marie Bohmann**, Vanderbilt University, and **Kirsten Wickelgren**, Georgia Institute of Technology.

Selected Topics in Graph Theory (Code: SS 3A), **Songling Shan**, Vanderbilt University, and **David Chris Stephens** and **Dong Ye**, Middle Tennessee State University.

Structural Graph Theory (Code: SS 4A), **Joshua Fallon**, Louisiana State University, and **Emily Marshall**, Arcadia University.

Tensor Categories and Diagrammatic Methods (Code: SS 19A), **Marcel Bischoff**, Ohio University, and **Henry Tucker**, University of California San Diego.

Portland, Oregon

Portland State University

April 14–15, 2018

Saturday – Sunday

Meeting #1137

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: January 2018

Program first available on AMS website: February 15, 2018

Issue of *Abstracts*: Volume 39, Issue 2

Deadlines

For organizers: Expired

For abstracts: February 6, 2018

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtgs/sectional.html.

Invited Addresses

Sándor Kovács, University of Washington, Seattle, *Title to be announced.*

Elena Mantovan, California Institute of Technology, *Title to be announced.*

Dimitri Shlyakhtenko, University of California, Los Angeles, *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.

Algebraic Geometry and its Connections (Code: SS 9A), **Sándor Kovács**, University of Washington, Seattle, and **Karl Schwede**, University of Utah, Salt Lake City.

Algebraic Topology (Code: SS 23A), **Angélica Osorno**, Reed College, and **Dev Sinha**, University of Oregon.

Algebraic and Combinatorial Structures in Knot Theory (Code: SS 3A), **Allison Henrich**, Seattle University, **Inga Johnson**, Willamette University, and **Sam Nelson**, Claremont McKenna College.

Automorphisms of Riemann Surfaces and Related Topics (Code: SS 14A), **S. Allen Broughton**, Rose-Hulman Institute of Technology, **Mariela Carvacho**, Universidad Tecnica Federico Santa Maria, **Anthony Weaver**, Bronx Community College, the City University of New York, and **Aaron Wootton**, University of Portland.

Biomathematics - Progress and Future Directions (Code: SS 4A), **Hannah Callender Highlander**, University of Portland, **Peter Hinow**, University of Wisconsin - Milwaukee, and **Deena Schmidt**, University of Nevada, Reno.

Commutative Algebra (Code: SS 5A), **Adam Boocher**, University of Utah, and **Irena Swanson**, Reed College.

Complex Analysis and Applications (Code: SS 11A), **Malik Younsi**, University of Hawaii Manoa.

Differential Geometry (Code: SS 19A), **Christine Escher**, Oregon State University, and **Catherine Searle**, Wichita State University.

Forest Modeling (Code: SS 20A), **Gatziolis Demetrios**, Pacific Northwest Research Station, US Forest Service, and **Nikolay Strigul**, Washington State University, Vancouver.

General Relativity and Geometric Analysis (Code: SS 13A), **Paul T. Allen**, Lewis & Clark College, **Jeffrey Jauregui**, Union College, and **Iva Stavrov Allen**, Lewis & Clark College.

Geometric Measure Theory and Partial Differential Equations (Code: SS 12A), **Mark Allen**, Brigham Young University, and **Spencer Becker-Kahn** and **Mariana Smit Vega Garcia**, University of Washington.

Inverse Problems (Code: SS 2A), **Hanna Makaruk**, Los Alamos National Laboratory (LANL), and **Robert Owczarek**, University of New Mexico, Albuquerque & Los Alamos.

Mock Modular and Quantum Modular Forms (Code: SS 24A), **Holly Swisher**, Oregon State University, and **Stephanie Treneer**, Western Washington University.

Modeling, Analysis, and Simulation of PDEs with Multiple Scales, Interfaces, and Coupled Phenomena (Code: SS 17A), **Yekaterina Epshteyn**, University of Utah, and **Malgorzata Peszynska**, Oregon State University.

Moduli Spaces (Code: SS 21A), **Renzo Cavalieri**, Colorado State University, and **Damiano Fulghesu**, Minnesota State University Moorhead.

Motivic homotopy theory (Code: SS 6A), **Daniel Dugger**, University of Oregon, and **Kyle Ormsby**, Reed College.

Noncommutative Algebraic Geometry and Related Topics (Code: SS 16A), **Jesse Levitt**, University of Southern California, **Hans Nordstrom**, University of Portland, and **Xinting Wang**, Temple University.

Nonsmooth Optimization and Applications (Dedicated to Prof. B. S. Mordukhovich on the occasion of his 70th birthday) (Code: SS 7A), **Mau Nam Nguyen**, Portland State University, **Hung M. Phan**, University of Massachusetts Lowell, and **Shawn Xianfu Wang**, University of British Columbia.

Numerical Methods for Partial Differential Equations (Code: SS 22A), **Brittany A. Erickson** and **Jeffrey S. Ovall**, Portland State University.

Pattern Formation in Crowds, Flocks, and Traffic (Code: SS 1A), **J. J. P. Veerman**, Portland State University, **Alethea Barbaro**, Case Western Reserve University, and **Bassam Bamieh**, UC Santa Barbara.

Recent Advances in Actuarial Mathematics (Code: SS 18A), **Sooie-Hoe Loke**, Central Washington University, and **Enrique Thomann**, Oregon State University.

Spectral Theory (Code: SS 8A), **Jake Fillman**, Virginia Tech, and **Milivoje Lukic**, Rice University.

Teaching and Learning in Undergraduate Mathematics (Code: SS 15A), **Natalie LF Hobson**, Sonoma State University, and **Elise Lockwood**, Oregon State University.

Wavelets, Frames, and Related Expansions (Code: SS 10A), **Marcin Bownik**, University of Oregon, and **Darrin Speegle**, Saint Louis University.

Boston, Massachusetts

Northeastern University

April 21–22, 2018

Saturday – Sunday

Meeting #1139

Eastern Section

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: January 2018

Program first available on AMS website: March 1, 2018

Issue of *Abstracts*: Volume 39, Issue 2

Deadlines

For organizers: Expired

For abstracts: February 20, 2018

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtg/sectional.html.

Invited Addresses

Jian Ding, University of Pennsylvania, *Random walk, random media and random geometry.*

Edward Frenkel, University of California, Berkeley, *Imagination and knowledge* (Einstein Public Lecture in Mathematics).

Valentino Tosatti, Northwestern University, *Metric limits of Calabi-Yau manifolds.*

Maryna Viazovska, École Polytechnique Fédérale de Lausanne, *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.

Algebraic Number Theory (Code: SS 35A), **Michael Bush**, Washington and Lee University, **Farshid Hajir**, University of Massachusetts, and **Christian Maire**, Université Bourgogne Franche-Comté.

Algebraic Statistics (Code: SS 33A), **Kaie Kubjas** and **Elina Robeva**, Massachusetts Institute of Technology.

Algebraic, Geometric, and Topological Methods in Combinatorics (Code: SS 21A), **Florian Frick**, Cornell University, and **Pablo Soberón**, Northeastern University.

Algorithmic Group Theory and Applications (Code: SS 26A), **Delaram Kahrobaei**, City University of New York, and **Antonio Tortora**, University of Salerno.

Analysis and Geometry in Non-smooth Spaces (Code: SS 5A), **Nageswari Shanmugalingam** and **Gareth Speight**, University of Cincinnati.

Arithmetic Dynamics (Code: SS 1A), **Jacqueline M. Anderson**, Bridgewater State University, **Robert Benedetto**, Amherst College, and **Joseph H. Silverman**, Brown University.

Arrangements of Hypersurfaces (Code: SS 2A), **Graham Denham**, University of Western Ontario, and **Alexander I. Suci**, Northeastern University.

Combinatorial Aspects of Nilpotent Orbits (Code: SS 15A), **Anthony Iarrobino**, Northeastern University, **Leila Khatami**, Union College, and **Juliana Tymoczko**, Smith College.

Combinatorial Representation Theory (Code: SS 41A), **Laura Colmenarejo**, York University, **Ricky Liu**, North Carolina State University, and **Rosa Orellana**, Dartmouth College.

Connections Between Trisections of 4-manifolds and Low-dimensional Topology (Code: SS 32A), **Jeffrey Meier**, University of Georgia, and **Juanita Pinzon-Caicedó**, North Carolina State University.

Discretization in Geometry and Dynamics (Code: SS 36A), **Richard Kenyon**, **Wai Yeung Lam**, and **Richard Schwartz**, Brown University.

Dynamical systems, Geometric Structures and Special Functions (Code: SS 23A), **Alessandro Arsie**, University of Toledo, and **Oksana Bihun**, University of Colorado, Colorado Springs.

Effective Behavior in Random Environments (Code: SS 25A), **Jessica Lin**, McGill University, and **Charles Smart**, University of Chicago.

Ergodic Theory and Dynamics in Combinatorial Number Theory (Code: SS 7A), **Stanley Eigen** and **Daniel Glasscock**, Northeastern University, and **Vidhu Prasad**, University of Massachusetts, Lowell.

Extremal Graph Theory and Quantum Walks on Graphs (Code: SS 13A), **Sebastian Cioabă**, University of Delaware, **Mark Kempton**, Harvard University, **Gabor Lippner**, Northeastern University, and **Michael Tait**, Carnegie Mellon University.

Facets of Symplectic Geometry and Topology (Code: SS 3A), **Tara Holm**, Cornell University, **Jo Nelson**, Columbia University, and **Jonathan Weitsman**, Northeastern University.

Geometries Defined by Differential Forms (Code: SS 34A), **Mahir Bilen Can**, Tulane University, **Sergey Grigorian**, University of Texas Rio Grande Valley, and **Sema Salur**, University of Rochester.

Geometry and Analysis of Fluid Equations (Code: SS 28A), **Robert McOwen** and **Peter Topalov**, Northeastern University.

Geometry of Moduli Spaces (Code: SS 10A), **Ana-Marie Castravet** and **Emanuele Macrì**, Northeastern University, **Benjamin Schmidt**, University of Texas, and **Xiaolei Zhao**, Northeastern University.

Global Dynamics of Real Discrete Dynamical Systems (Code: SS 30A), **M. R. S. Kulenović** and **O. Merino**, University of Rhode Island.

Harmonic Analysis and Partial Differential Equations (Code: SS 29A), **Donatella Danielli**, Purdue University, and **Irina Mitrea**, Temple University.

Homological Commutative Algebra (Code: SS 11A), **Sean Sather-Wagstaff**, Clemson University, and **Oana Veliche**, Northeastern University.

Hopf Algebras, Tensor Categories, and Homological Algebra (Code: SS 8A), **Cris Negron**, Massachusetts Institute of Technology, **Julia Plavnik**, Texas A&M, and **Sarah Witherspoon**, Texas A&M University.

Mathematical Perspectives in Quantum Information Theory (Code: SS 24A), **Aram Harrow**, Massachusetts Institute of Technology, and **Christopher King**, Northeastern University.

Mathematical Problems of Relativistic Physics: Classical and Quantum (Code: SS 37A), **Michael Kiessling** and **A. Shadi Tahvildar-Zadeh**, Rutgers University.

Modeling of Biological Processes (Code: SS 38A), **Simone Cassani** and **Sarah Olson**, Worcester Polytechnic Institute.

New Developments in Inverse Problems and Imaging (Code: SS 9A), **Ru-Yu Lai**, University of Minnesota, and **Ting Zhou**, Northeastern University.

Noncommutative Algebra and Representation Theory (Code: SS 22A), **Van C. Nguyen**, Hood College, and **Alex Martsinkovsky** and **Gordana Todorov**, Northeastern University.

Nonlinear Reaction-Diffusion Equations and Their Applications (Code: SS 31A), **Nsoki Mavinga** and **Quinn Morris**, Swarthmore College.

Nonlinear and Stochastic Partial Differential Equations and Applications (Code: SS 19A), **Nathan Glatt-Holtz** and **Vincent Martinez**, Tulane University, and **Cecilia Mondaini**, Texas A&M University.

Numerical Methods and Applications (Code: SS 16A), **Vera Babenko**, Ithaca College.

Optimization Under Uncertainty (Code: SS 40A), **Yingdong Lu** and **Mark S. Squillante**, IBM Research.

Polytopes and Discrete Geometry (Code: SS 6A), **Gabriel Cunningham**, University of Massachusetts, Boston, **Mark Mixer**, Wentworth Institute of Technology, and **Egon Schulte**, Northeastern University.

Regularity of PDEs on Rough Domains (Code: SS 14A), **Murat Akman**, University of Connecticut, and **Max Engelstein**, Massachusetts Institute of Technology.

Relations Between the History and Pedagogy of Mathematics (Code: SS 20A), **Amy Ackenberg-Hastings**, and **David L. Roberts**, Prince George's Community College.

Singularities of Spaces and Maps (Code: SS 4A), **Terence Gaffney** and **David Massey**, Northeastern University.

The Analysis of Dispersive Equations (Code: SS 39A), **Marius Beceanu**, University at Albany, and **Andrew Lawrie**, Massachusetts Institute of Technology.

The Gaussian Free Field and Random Geometry (Code: SS 12A), **Jian Ding**, University of Pennsylvania, and **Vadim Gorin**, Massachusetts Institute of Technology.

Topics in Qualitative Properties of Partial Differential Equations (Code: SS 27A), **Changfeng Gui**, University of Texas at San Antonio, **Changyou Wang**, Purdue University, and **Jiuyi Zhu**, Louisiana State University.

Topics in Toric Geometry (Code: SS 17A), **Ivan Martino**, Northeastern University, and **Emanuele Ventura**, Texas A&M University.

Topology of Biopolymers (Code: SS 18A), **Erica Flapan**, Pomona College, and **Helen Wong**, Carleton College.

Shanghai, People's Republic of China

Fudan University

June 11–14, 2018

Monday – Thursday

Meeting #1140

Associate secretary: Steven H. Weintraub
Announcement issue of *Notices*: April 2018
Program first available on AMS website: Not applicable
Issue of *Abstracts*: Not applicable

Deadlines

For organizers: To be announced
For abstracts: To be announced

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtgs/intermtgs.html.

Invited Addresses

Yu-Hong Dai, Academy of Mathematics and System Sciences, *Title to be announced.*

Kenneth A. Ribet, University of California, Berkeley, *Title to be announced.*

Richard M. Schoen, University of California, Irvine, *Title to be announced.*

Sijue Wu, University of Michigan, *Title to be announced.*

Chenyang Xu, Peking University, *Title to be announced.*

Jiangong You, Nankai University, *Title to be announced.*

Newark, Delaware

University of Delaware

September 29–30, 2018

Saturday – Sunday

Meeting #1141

Eastern Section
Associate secretary: Steven H. Weintraub
Announcement issue of *Notices*: June 2018
Program first available on AMS website: August 9, 2018
Issue of *Abstracts*: Volume 39, Issue 3

Deadlines

For organizers: February 28, 2018
For abstracts: July 31, 2018

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtgs/sectional.html.

Invited Addresses

Leslie Greengard, New York University, *Title to be announced.*

Elisenda Grigsby, Boston College, *Title to be announced.*

Davesh Maulik, Massachusetts Institute of Technology, *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.

Applied Algebraic Topology (Code: SS 2A), **Chad Giusti**, University of Delaware, and **Gregory Henselman**, Princeton University.

Convex Geometry and Functional Inequalities (Code: SS 3A), **Mokshay Madiman**, University of Delaware, **Elisabeth Werner**, Case Western Reserve University, and **Artem Zvavitch**, Kent State University.

Operator and Function Theory (Code: SS 4A), **Kelly Bickel**, Bucknell University, **Michael Hartz**, Washington University, St. Louis, **Constanze Liaw**, University of Delaware, and **Alan Sola**, Stockholm University.

Recent Advances in Nonlinear Schrödinger Equations (Code: SS 1A), **Alexander Pankov**, Morgan State University, **Junping Shi**, College of William and Mary, and **Jun Wang**, Jiangsu University.

Fayetteville, Arkansas

University of Arkansas

November 3–4, 2018

Saturday – Sunday

Meeting #1142

Southeastern Section

Associate secretary: Brian D. Boe

Announcement issue of *Notices*: July 2018

Program first available on AMS website: August 16, 2018

Issue of *Abstracts*: Volume 39, Issue 3

Deadlines

For organizers: April 3, 2018

For abstracts: September 4, 2018

*The scientific information listed below may be dated.
For the latest information, see www.ams.org/amsmtg/sectional.html.*

Invited Addresses

Mihalis Dafermos, Princeton University, *Title to be announced.*

Jonathan Hauenstein, University of Notre Dame, *Title to be announced.*

Kathryn Mann, University of California Berkeley, *Title to be announced.*

Ann Arbor, Michigan

University of Michigan, Ann Arbor

October 20–21, 2018

Saturday – Sunday

Meeting #1143

Central Section

Associate secretary: Georgia Benkart

Announcement issue of *Notices*: July 2018

Program first available on AMS website: August 30, 2018

Issue of *Abstracts*: Volume 39, Issue 4

Deadlines

For organizers: March 20, 2018

For abstracts: August 21, 2018

*The scientific information listed below may be dated.
For the latest information, see www.ams.org/amsmtg/sectional.html.*

Invited Addresses

Elena Fuchs, University of Illinois Urbana-Champaign, *Title to be announced.*

Andrew Putman, University of Notre Dame, *Title to be announced.*

Charles Smart, University of Chicago, *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.

From Hyperelliptic to Superelliptic Curves (Code: SS 6A), **Tony Shaska**, Oakland University, **Nicola Tarasca**, Rutgers University, and **Yuri Zarhin**, Pennsylvania State University.

Geometry of Submanifolds, in Honor of Bang-Yen Chens 75th Birthday (Code: SS 1A), **Alfonso Carriazo**, University of Sevilla, **Ivko Dimitric**, Penn State Fayette, **Yun Myung Oh**, Andrews University, **Bogdan D. Suceava**, California State University, Fullerton, **Joeri Van der Veken**, University of Leuven, and **Luc Vrancken**, Universite de Valenciennes.

Interactions between Algebra, Machine Learning and Data Privacy (Code: SS 3A), **Jonathan Gryak**, University of Michigan, **Kelsey Horan**, CUNY Graduate Center, **Delaram Kahrobaei**, CUNY Graduate Center and New York University, **Kayvan Najarian** and **Reza Soroushmehr**, University of Michigan, and **Alexander Wood**, CUNY Graduate Center.

Probabilistic Methods in Combinatorics (Code: SS 7A), **Patrick Bennett** and **Andrzej Dudek**, Western Michigan University, and **David Galvin**, University of Notre Dame.

Random Matrix Theory Beyond Wigner and Wishart (Code: SS 2A), **Elizabeth Meckes** and **Mark Meckes**, Case Western Reserve University, and **Mark Rudelson**, University of Michigan.

Self-similarity and Long-range Dependence in Stochastic Processes (Code: SS 4A), **Takashi Owada**, Purdue University, **Yi Shen**, University of Waterloo, and **Yizao Wang**, University of Cincinnati.

Structured Homotopy Theory (Code: SS 5A), **Thomas Fiore**, University of Michigan, Dearborn, **Po Hu** and **Dan Isaksen**, Wayne State University, and **Igor Kriz**, University of Michigan.

San Francisco, California

San Francisco State University

October 27–28, 2018

Saturday – Sunday

Meeting #1144

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: July 2018

Program first available on AMS website: September 6, 2018

Issue of *Abstracts*: Volume 39, Issue 4

Deadlines

For organizers: March 27, 2018

For abstracts: August 28, 2018

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtg/sectional.html.

Invited Addresses

Srikanth B. Iyengar, University of Utah, *Title to be announced.*

Sarah Witherspoon, Texas A&M University, *Title to be announced.*

Abdul-Aziz Yakubu, Howard University, *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.

Coupling in Probability and Related Fields (Code: SS 3A), **Sayan Banerjee**, University of North Carolina, Chapel Hill, and **Terry Soo**, University of Kansas.

Homological Aspects of Noncommutative Algebra and Geometry (Code: SS 2A), **Dan Rogalski**, University of California San Diego, **Sarah Witherspoon**, Texas A&M University, and **James Zhang**, University of Washington, Seattle.

Mathematical Biology with a focus on Modeling, Analysis, and Simulation (Code: SS 1A), **Jim Cushing**, The University of Arizona, **Saber Elaydi**, Trinity University, **Suzanne Sindi**, University of California, Merced, and **Abdul-Aziz Yakubu**, Howard University.

Baltimore, Maryland

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

January 16–19, 2019

Wednesday – Saturday

Meeting #1145

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

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: October 2018

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 2, 2018

For abstracts: To be announced

Auburn, Alabama

Auburn University

March 15–17, 2019

Friday – Sunday

Meeting #1146

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

Honolulu, Hawaii

University of Hawaii at Manoa

March 22–24, 2019

Friday – Sunday

Meeting #1147

Central Section

Associate secretaries: Georgia Benkart and Michel L. Lapidus

Announcement issue of *Notices*: To be announced

Program first available on AMS website: To be announced

Issue of *Abstracts*: To be announced

Deadlines

For organizers: May 15, 2018

For abstracts: January 22, 2019

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtg/sectional.html.

Invited Addresses

Barry Mazur, Harvard University, *Title to be announced* (Einstein Public Lecture in Mathematics).

Aaron Naber, Northwestern University, *Title to be announced*.

Deanna Needell, University of California, Los Angeles, *Title to be announced*.

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

Andrew Suk, University of Illinois at Chicago, *Title to be announced*.

Hartford, Connecticut

University of Connecticut Hartford (Hartford Regional Campus)

April 13–14, 2019

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: September 13, 2018

For abstracts: To be announced

Quy Nhon City, Vietnam

Quy Nhon University

June 10–13, 2019

Monday – Thursday

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

Binghamton, New York

Binghamton University

October 12–13, 2019

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: March 12, 2019

For abstracts: To be announced

Gainesville, Florida

University of Florida

November 2–3, 2019

Saturday – 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

Denver, Colorado

Colorado Convention Center

January 15–18, 2020

Wednesday – Saturday

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

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: October 2019

Program first available on AMS website: November 1, 2019

Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 1, 2019

For abstracts: To be announced

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

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