

MEETINGS & CONFERENCES OF THE AMS

SEPTEMBER 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 75 in the January 2017 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.

MEETINGS IN THIS ISSUE

2017

September 9-10	Denton, Texas	p. 948
September 16-17	Buffalo, New York	p. 949
September 23-24	Orlando, Florida	p. 950
November 4-5	Riverside, California	p. 951

2018

January 10-13	San Diego, California	p. 956
March 17-18	Columbus, Ohio	p. 960
April 14-15	Portland, Oregon	p. 961
April 14-15	Nashville, Tennessee	p. 961

2018, cont'd.

April 21-22	Boston, Massachusetts	p. 962
June 11-14	Shanghai, People's Republic of China	p. 962
September 29-30	Newark, Delaware	p. 963
October 6-7	Fayetteville, Arkansas	p. 963
October 20-21	Ann Arbor, Michigan	p. 963
October 27-28	San Francisco, California	p. 964

2019

January 16-19	Baltimore, Maryland	p. 964
March 15-17	Auburn, Alabama	p. 964
March 22-24	Honolulu, Hawaii	p. 965

2020

January 15-18	Denver, Colorado	p. 965
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2021

January 6-9	Washington, DC	p. 966
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See www.ams.org/meetings/ for the most up-to-date information on these conferences.

ASSOCIATE SECRETARIES OF THE AMS

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

Eastern Section: Steven H. Weintraub, Department of Mathematics, Lehigh University, Bethlehem, PA 18015-3174; e-mail: steve.weintraub@lehigh.edu; telephone: 610-758-3717.

Southeastern Section: Brian D. Boe, Department of Mathematics, University of Georgia, 220 D W Brooks Drive, Athens, GA 30602-7403, e-mail: brian@math.uga.edu; telephone: 706-542-2547.

Western Section: Michel L. Lapidus, Department of Mathematics, University of California, Surge Bldg., Riverside, CA 92521-0135; e-mail: 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 .

Denton, Texas

University of North Texas

September 9–10, 2017

Saturday–Sunday

Meeting #1131

Central Section

Associate secretary: Georgia Benkart

Announcement issue of *Notices*: June 2017

Program first available on AMS website: July 27, 2017

Program issue of electronic *Notices*: To be announced

Issue of *Abstracts*: Volume 38, Issue 3

Deadlines

For organizers: Expired

For abstracts: Expired

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

Invited Addresses

Mirela Çiperiani, University of Texas at Austin, *Divisibility and solvability in the arithmetic of genus one curves.*

Adrianna Gillman, Rice University, *Fast direct solvers for boundary integral equations.*

Kevin M Pilgrim, Department of Mathematics, Indiana University, Bloomington, IN, *Semigroups of branched mapping classes: dynamics and geometry.*

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 Combinatorics of Flag Varieties, **Martha Pre-cup**, Northwestern University, and **Edward Richmond**, Oklahoma State University.

Analysis and PDEs in Geometry, **Stephen McKeown**, Princeton University.

Applicable and Computational Algebraic Geometry, **Eric Hanson**, Texas Christian University, and **Frank Sottile**, Texas A&M University.

Banach Spaces and Applications, **Pavlos Motakis**, Texas A&M University, and **Bunyamin Sari**, University of North Texas.

Combinatorial/Geometric/Probabilistic Methods in Group Theory, **Rostislav Grigorchuk** and **Volodymyr Nekrashevych**, Texas A&M University, **Dmytro Savchuk**, University of South Florida, and **Zoran Sunic**, Texas A&M University.

Combinatorics and Representation Theory of Reflection Groups: Real and Complex, **Elizabeth Drellich**, Swarthmore College, and **Drew Tomlin**, Hendrix College.

Commutative Algebra, **Jonathan Montano**, University of Kansas, and **Alessio Sammartano**, Purdue University.

Differential Equation Modeling and Analysis for Complex Bio-systems, **Pengcheng Xiao**, University of Evansville, and **Honghui Zhang**, Northwestern Polytechnical University.

Differential Geometry of Smooth and Discrete Surfaces in Euclidean and Lorentz Spaces, **Barbara Shipman**, University of Texas at Arlington, and **Patrick Shipman**, Colorado State University.

Dynamics, Geometry and Number Theory, **Lior Fishman** and **Mariusz Urbanski**, University of North Texas.

Fractal Geometry and Ergodic Theory, **Mrinal Kanti Roychowdhury**, University of Texas Rio Grande Valley.

Generalizations of Graph Theory, **Nathan Reff**, SUNY Brockport, and **Lucas Rusnak** and **Piyush Shroff**, Texas State University.

Geometric Combinatorics and Combinatorial Commutative Algebra, **Anton Dochtermann** and **Suho Oh**, Texas State University.

Homological Methods in Commutative Algebra, **Peder Thompson**, Texas Tech University, and **Ashley Wheeler**, University of Arkansas.

Integrable Systems and Applications, **Baofeng Feng**, The University of Texas Rio Grande Valley, and **Akif Ibragimov** and **Magdalena Toda**, Texas Tech University.

Invariants of Links and 3-Manifolds, **Mieczyslaw K. Dabkowski** and **Anh T. Tran**, The University of Texas at Dallas.

Lie Algebras, Superalgebras, and Applications, **Charles H. Conley**, University of North Texas, **Dimitar Grantcharov**, University of Texas at Arlington, and **Natalia Rozhkovskaya**, Kansas State University.

Mathematical and Computational Biology, **Rajeev K. Azad**, University of North Texas, and **Brandilyn Stigler**, Southern Methodist University.

Noncommutative and Homological Algebra, **Anne Shepler**, University of North Texas, and **Sarah Witherspoon**, Texas A&M University.

Nonlocal PDEs in Fluid Dynamics, **Changhui Tan**, Rice University, and **Xiaoqian Xu**, Carnegie Mellon University.

Numbers, Functions, Transcendence, and Geometry, **William Cherry**, University of North Texas, **Mirela Ciperiani**, University of Texas Austin, **Matt Papanikolas**, Texas A&M University, and **Min Ru**, University of Houston.

Real-Analytic Automorphic Forms, **Olav K Richter**, University of North Texas, and **Martin Westerholt-Raum**, Chalmers University of Technology.

Recent Progress on Hyperbolic Conservation Laws, **Ilija Jegdic**, Texas Southern University, and **Katarina Jegdic**, University of Houston, Downtown.

Topics Related to the Interplay of Noncommutative Algebra and Geometry, **Richard Chandler**, University of North Texas at Dallas, **Michaela Vancliff**, University of Texas at Arlington, and **Padmini Veerapen**, Tennessee Technological University.

Buffalo, New York

State University of New York at Buffalo

September 16–17, 2017

Saturday–Sunday

Meeting #1132

Eastern Section

Associate secretary: Steven H. Weintraub

Announcement issue of *Notices*: June 2017

Program first available on AMS website: August 3, 2017

Issue of *Abstracts*: Volume 38, Issue 3

Deadlines

For organizers: Expired

For abstracts: Expired

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

Invited Addresses

Inwon C Kim, UCLA, *Capillary drops on rough surfaces*.

James McKeown, University of Miami, *Deformations of Stiefel Diagrams*.

Govind Menon, Brown University, *Building polyhedra by self-assembly*.

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.

Advanced Techniques in Graph Theory, **Sogol Jahanbekam** and **Paul Wenger**, Rochester Institute of Technology.

Algebraic Topology, **Claudia Miller**, Syracuse University, and **Inna Zakharevich**, Cornell University.

Automorphic Forms and L-functions, **Mahdi Asgari**, Oklahoma State University, and **Joseph Hundley**, University at Buffalo-SUNY.

CR Geometry and Partial Differential Equations in Complex Analysis, **Ming Xiao**, University of Illinois at Urbana-Champaign, and **Yuan Yuan**, Syracuse University.

Cohomology, Deformations, and Quantum Groups: A Session Dedicated to the Memory of Samuel D. Schack, **Miodrag Iovanov**, University of Iowa, **Mihai D. Staic**, Bowling Green State University, and **Alin Stancu**, Columbus State University.

Geometric Group Theory, **Joel Louwsma**, Niagara University, and **Johanna Mangahas**, University at Buffalo-SUNY.

High Order Numerical Methods for Hyperbolic PDEs and Applications, **Jae-Hun Jung**, University at Buffalo-SUNY, **Fengyan Li**, Rensselaer Polytechnic Institute, and **Li Wang**, University at Buffalo-SUNY.

Infinite Groups and Geometric Structures: A Session in Honor of the Sixtieth Birthday of Andrew Nicas, **Hans Boden**, McMaster University, and **David Rosenthal**, St. John's University.

Knots, 3-manifolds and their Invariants, **William Menasco** and **Adam Sikora**, University at Buffalo-SUNY, and **Stephan Wehrli**, Syracuse University.

Nonlinear Dispersive Partial Differential Equations, **Santosh Bhatrai**, Trocaire College, and **Sharad Silwal**, Jefferson College of Health Sciences.

Nonlinear Evolution Equations, **Marius Beceanu**, SUNY Albany, and **Dan-Andrei Geba**, University of Rochester.

Nonlinear Partial Differential Equations Arising from Life Science, **Junping Shi**, College of William and Mary, and **Xingfu Zou**, University of Western Ontario.

Nonlinear Wave Equations, Inverse Scattering and Applications., **Gino Biondini**, University at Buffalo-SUNY.

Polynomials in Enumerative, Algebraic, and Geometric Combinatorics, **Robert Davis** and **Bruce Sagan**, Michigan State University.

Recent Advancements in Representation Theory, **Yiqiang Li**, University at Buffalo-SUNY, and **Gufang Zhao**, University of Massachusetts.

Recent Progress in Geometric Analysis, **Ovidiu Munteanu**, University of Connecticut, **Terrence Napier**, Lehigh University, and **Mohan Ramachandran**, University at Buffalo.

Structural and Chromatic Graph Theory, **Hong-Jian Lai**, **Rong Luo**, and **Cun-Quan Zhang**, West Virginia University, and **Yue Zhao**, University of Central Florida.

p-adic Aspects of Arithmetic Geometry, **Liang Xiao**, University of Connecticut, and **Hui June Zhu**, University at Buffalo-SUNY.

Orlando, Florida

University of Central Florida, Orlando

September 23–24, 2017

Saturday–Sunday

Meeting #1133

Southeastern Section

Associate secretary: Brian D. Boe

Announcement issue of *Notices*: June 2017

Program first available on AMS website: August 10, 2017

Issue of *Abstracts*: Volume 38, Issue 4

Deadlines

For organizers: Expired

For abstracts: Expired

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

Invited Addresses

Christine Heitsch, Georgia Institute of Technology, *Strings, trees, and RNA folding*.

Jonathan Kujawa, University of Oklahoma, *Realizing the spectrum of tensor categories*.

Christopher D Sogge, Johns Hopkins University, *On the concentration of eigenfunctions*.

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 Dirac Equations, Variational Inequalities, Sequence Spaces and Optimization, **Ram N Mohapatra**, University of Central Florida, and **Turhan Koprubasi**, Kastamonu University (Turkey).

Algebraic Curves and their Applications, **Lubjana Be-shaj**, The University of Texas at Austin.

Applied Harmonic Analysis: Frames, Samplings and Applications, **Dorin Dutkay**, **Deguang Han**, and **Qiyu Sun**, University of Central Florida.

Categorical Methods in Representation Theory, **Brian Boe**, University of Georgia, **Jonathan Kujawa**, University of Oklahoma, and **Daniel K. Nakano**, University of Georgia.

Commutative Algebra: Interactions with Algebraic Geometry and Algebraic Topology, **Joseph Brennan**, Univer-

sity of Central Florida, and **Alina Iacob** and **Saeed Nasseh**, Georgia Southern University.

Complex Analysis, Harmonic Analysis, and Approximation Theory, **Alexander V Tovstolis**, University of Central Florida, and **John Paul Ward**, North Carolina A&T State University.

Differential Equations in Mathematical Biology, **Andrew Nevai**, **Yuanwei Qi**, and **Zhisheng Shuai**, University of Central Florida.

Fractal Geometry, Dynamical Systems, and Their Applications, **Mrinal Kanti Roychowdhury**, University of Texas Rio Grande Valley.

Global Harmonic Analysis and its Applications, **Christopher Sogge** and **Yakun Xi**, Johns Hopkins University, and **Steve Zelditch**, Northwestern University.

Graph Connectivity and Edge Coloring, **Colton Magnant**, Georgia Southern University.

Mathematics of Biomolecules: Discrete, Algebraic, and Topological, **Natasha Jonoska**, University of South Florida, and **Christine Heitsch**, Georgia Institute of Technology.

Modern Statistical Methods for Structured Data, **Marianna Pensky**, University of Central Florida.

Nonlinear Dispersive Equations, **Benjamin Harrop-Griffiths**, New York University, **Jonas Lührmann**, Johns Hopkins University, and **Dana Mendelson**, University of Chicago.

Nonlinear Elliptic Partial Differential Equations, **Luis E Silvestre**, University of Chicago, and **Eduardo V Teixeira**, University of Central Florida.

Operator Algebras and Related Topics, **Zhe Liu**, University of Central Florida.

Progress in Fixed Point Theory and Its Applications, **Clement Boateng Ampadu**, Boston, MA, and **Buthinah A. Bin Rehash** and **Afrah A. N. Abdou**, King Abdulaziz University, Saudi Arabia.

Recent Developments in Integral Geometry and Tomography, **Alexander Katsevich**, **Alexander Tovbis**, and **Alexandru Tamasan**, University of Central Florida.

Stochastic Analysis and Applications, **Hongwei Long**, Florida Atlantic University, and **Jiongmin Yong**, University of Central Florida.

Structural Graph Theory, **Martin Rolek**, **Zixia Song**, and **Yue Zhao**, University of Central Florida.

Symplectic and Contact Topology and Dynamics, **Basak Gurel**, University of Central Florida, and **Viktor Ginzburg**, University of California, Santa Cruz.

Trends in Applications of Functional Analysis in Computational and Applied Mathematics, **M. Zuhair Nashed**, University of Central Florida.

Riverside, California

University of California, Riverside

November 4–5, 2017

Saturday–Sunday

Meeting #1134

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: September 2017

Program first available on AMS website: September 21, 2017

Issue of *Abstracts*: Volume 38, Issue 4

Deadlines

For organizers: Expired

For abstracts: September 12, 2017

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

Invited Addresses

Paul Balmer, University of California, Los Angeles, *An invitation to tensor-triangular geometry*.

Pavel Etingof, Massachusetts Institute of Technology, *Double affine hecke algebras and their applications*.

Monica Vazirani, University of California, Davis, *Combinatorics, categorification, and crystals*.

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 13A), **Michael Hartglass**, UC Riverside, Santa Clara University, and **Chenxu Wen** and **Feng Xu**, University of California, Riverside.

Algebraic Geometry (Code: SS 9A), **Humberto Diaz**, **Jose Gonzalez**, and **Ziv Ran**, University of California, Riverside.

Algebraic and Combinatorial Structures in Knot Theory (Code: SS 3A), **Patricia Cahn**, Smith College, and **Sam Nelson**, Claremont McKenna College.

Analysis and Geometry of Fractals (Code: SS 6A), **Erin Pearse**, California Polytechnic State University, **Goran Radunovic**, University of Zagreb, and **Tim Cobler**, Fullerton College, California.

Applied Category Theory (Code: SS 4A), **John Baez**, University of California, Riverside.

Characteristics of a Successful Mathematics Gateway Program (Code: SS 12A), **Sara Lapan**, University of California, Riverside, **Jeff Meyer**, California State University, San Bernardino, and **David Weisbart**, University of California, Riverside.

Combinatorial Aspects of the Polynomial Ring (Code: SS 1A), **Sami Assaf** and **Dominic Searles**, University of Southern California.

Combinatorial Representation Theory (Code: SS 5A), **Vyjayanthi Chari**, University of California, Riverside, and **Maria Monks Gillespie** and **Monica Vazirani**, University of California, Davis.

Conservation Laws, Nonlinear Waves and Applications (Code: SS 18A), **Geng Chen**, University of Kansas, **Tien Khai Nguyen**, North Carolina State University, and **Qingtian Zhang**, University of California, Davis.

Foundations of Quantum Theory (Code: SS 26A), **Jukka Virtanen**, University of California, Los Angeles, and **David Weisbart**, University of California, Riverside.

Generalized Geometry (Code: SS 16A), **Daniele Grandini**, Virginia State University, and **Yat-Sun Poon**, University of California, Riverside.

Geometric Analysis (Code: SS 24A), **Zhiqi Lu**, University of California, Irvine, **Jie Qing**, University of California, Santa Cruz, **Guofang Wei**, University of California, Santa Barbara, and **Qi Zhang**, University of California, Riverside.

Geometric Partial Differential Equations and their Applications (Code: SS 29A), **Po-Ning Chen**, University of California, Riverside, **Henri Roesch**, Duke University, and **Richard M. Schoen** and **Xiangwen Zhang**, University of California, Irvine.

Homotopy Theory (Code: SS 28A), **Jonathan Beardsley**, University of Washington.

Mathematical Fluid Mechanics (Code: SS 27A), **James P Kelliher** and **Lizheng Tao**, University of California, Riverside.

Model Theory (Code: SS 14A), **Artem Chernikov**, University of California, Los Angeles, and **Isaac Goldbring**, University of California, Irvine.

Non-Commutative Birational Geometry, Cluster Structures and Canonical Bases (Code: SS 19A), **Arkady Berenstein**, University of Oregon, Eugene, **Jacob Greenstein**, University of California, Riverside, and **Vladimir Retakh**, Rutgers University.

Nonlinear Elliptic Differential and Integral Equations (Code: SS 25A), **Mathew Gluck**, University of Oklahoma, and **John Villavert**, University of Texas, Rio Grande Valley.

Particle Methods and Nonlocal Partial Differential Equations (Code: SS 23A), **Katy Craig**, University of California, Santa Barbara, and **Franca Hoffman**, University of Cambridge.

Preparing Students for American Mathematical Competitions (Code: SS 7A), **Adam Glessner**, **Phillip Ramirez**, and **Bogdan D. Suceava**, California State University, Fullerton.

Random Matrices: Theory and Applications (Code: SS 20A), **Ioana Dumitriu**, University of Washington, and **Thomas Trogdon**, University of California, Irvine.

Random and Deterministic Dynamical Systems (Code: SS 15A), **Nicolai Haydn**, University of Southern California, Los Angeles.

Rational Cherednik Algebras and Categorification (Code: SS 8A), **Pavel Etingof**, Massachusetts Institute of Technology, and **Ivan Losev**, Northeastern University.

Research in Mathematics by Early Career Graduate Students (Code: SS 22A), **Michael Bishop**, **Stefaan Delcroix**, **Marat Markin**, **Khang Tran**, and **Oscar Vega**, California State University, Fresno.

Riemannian Manifolds of Non-Negative Sectional Curvature (Code: SS 21A), **Owen Dearricott**, University of Melbourne, and **Fernando Galaz-Garcia**, Karlsruhe Institute of Technology.

Ring Theory and Related Topics (Celebrating the 75th Birthday of Lance W. Small) (Code: SS 2A), **Jason Bell**, University of Waterloo, **Ellen Kirkman**, Wake Forest University, and **Susan Montgomery**, University of Southern California.

Several Complex Variables (Code: SS 10A), **Bingyuan Liu** and **Bun Wong**, University of California, Riverside.

Stochastic and Multi-scale Models in Mathematical Biology, Analysis and Simulations (Code: SS 17A), **Mark Alber**, University of California, Riverside, and **Bjorn Birnir**, University of California, Santa Barbara.

Tensor Categories: Bridging Algebra, Topology, and Physics (Code: SS 11A), **Paul Bruillard**, Pacific Northwest National Laboratory, **Julia Plavnik**, Texas A&M University, and **Henry Tucker**, University of California, San Diego.

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 California state hotel tax (13.30 percent) and hotel fees may apply. Participants must state that they are with the **American Mathematical Society's (AMS) Fall Western 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.**

Americas Best Value Inn Hotel Riverside, 4045 University Ave, Riverside, CA 92501; (951) 686-6666; www.redlion.com/abvi-riverside. Rates are **US\$79** per night for a single occupancy, queen room; **US\$99** per night for a double occupancy, full and twin bed room; and **US\$109** for up to four people with two full beds. Amenities include free wireless Internet access in all guest rooms and public areas, outdoor swimming pool, and is 100 percent Non-Smoking. Enjoy complimentary continental breakfast every morning. Newly remodeled guest rooms feature pillow-top beds, down comforters, and fine linens, mini-fridges, flat panel TVs with cable and HBO, hair dryers, irons, and ironing boards are available in the guest rooms. Complimentary parking is also available. This property is 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 **October 10, 2017**.

Comfort Inn University, 1590 University Avenue, Riverside, CA 92507; (951) 683-6000; www.choicehotels.com/california/riverside/comfort-inn-hotels/ca677. Rates are **US\$85** per night for two double beds or **US\$75** per night for a single king bed. Amenities include

free wireless Internet, free hot breakfast, fitness room, business center, meeting space and copy, print and fax machines. The well-appointed guest rooms feature hair dryers, coffee makers, irons and ironing boards, microwaves and refrigerators, along with premium bedding. Cancellation and early check-out policies vary and penalties exist at this property; be sure to check when you make your reservation. Complimentary parking is also available. This property is about a 5 minute drive from campus. The deadline for reservations at a reduced rate is by **November 3, 2017**.

Marriott Riverside at the Convention Center, 3400 Market Street, Riverside, CA 92501; (951) 784-8000; www.marriott.com/hotels/travel/ralmc-marriott-riverside-at-the-convention-center/. Rates are **US\$117** per night for king or double bed guest rooms. The hotel offers a business center and a dedicated concierge lounge with breakfast & evening hors d'oeuvres. On site self-parking is available for **US\$12** per vehicle per night. This property is located approximately 2 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 a reduced rate is **October 6, 2017**.

Courtyard Marriott Riverside UCR, 1510 University Ave, Riverside, CA 92507; (951) 276-1200; www.marriott.com/hotels/travel/ralcy-courtyard-riverside-ucr-moreno-valley-area/. Rates are **US\$119** per night for a single king bed or two queen beds. Amenities include an outdoor pool, fitness center, a new state-of-the-art lobby with flexible work space, an inviting lounge area, complimentary high-speed Internet, and a business center. Gain access to the latest news, weather, local attractions, airport conditions, and more on the interactive Go Board aimed at making traveling in Riverside easier. This property is approximately a 15 minute walk from campus. Complimentary on-site parking is also 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 **October 13, 2017**.

Hampton Inn and Suites Riverside-Corona East, 4250 Riverwalk Parkway, Riverside, California 92505; (951) 352-5020; hamptoninn3.hilton.com/en/hotels/california/hampton-inn-and-suites-riverside-corona-east-RALRWHX/index.html. Rates are **US\$129** per night for a standard room with a single king or two queen beds. Amenities include business center, complimentary printing service, fitness room, pool, complimentary hot breakfast and coin operated guest laundry. Complimentary self-parking is also available. This property is about a 20 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 **October 13, 2017**.

Hampton Inn and Suites Moreno Valley, 12611 Memorial Way, Moreno Valley, CA 92518; (951) 571-7788; hamptoninn3.hilton.com/en/hotels/california

/hampton-inn-and-suites-moreno-valley-JSBMVHX/index.html. Rates are **US\$129** per night for a room with a single king or double queen beds. Amenities include complimentary hot breakfast buffet every morning, complimentary self-parking, pool, fitness center, business center, complimentary printing service and free wireless Internet in guest rooms. This property is about a 25 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 **October 3, 2017**.

Hyatt Place Riverside Downtown, 3500 Market Street, Riverside, CA 92501; (951) 321-3500; riversidedowntown.place.hyatt.com/en/hotel/home.html. Rates are **US\$129** per night for a room with a single king bed. Amenities include free hot breakfast buffet daily, free high speed Internet, free local phone calls, complimentary public computers with printer and fitness center. Discounted parking is available at **US\$8** per vehicle per day. This property is about an 8 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 **October 20, 2017**.

The Mission Inn Hotel and Spa, 3649 Mission Inn Ave, Riverside, CA 92501; (951) 784-0300; www.missioninn.com. Rates are **US\$189** per night for a king deluxe or king raincross room. Amenities include award winning restaurants and bars, heated outdoor pool and Jacuzzi, fitness center, full service spa, and wireless Internet is available for purchase. Self-parking is available at a cost of **US\$16** daily. This property is 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 **October 5, 2017**.

Food Services

On Campus: The University's HUB Food Court is the place on campus to relax and enjoy a variety of foods that will satisfy any taste and budget. Visit dining.ucr.edu/campusrestaurants/thehubrestaurants.html for online menus and HUB restaurant hours.

Habanero's is located on the ground floor of HUB Main and offers custom-build burritos, tacos, bowls or salads. It is open for breakfast and lunch.

La Fiamma Italian Cuisine is located on the ground floor of HUB Main. It offers three stations dedicated to Italian creations. Pizza is available by the slice, as a combo or the whole pie. The menu also includes build your own pasta dishes, entree salads, and seasonal soups selections each day.

Panda Express is located on the ground floor of HUB Main and offers traditional and modern Chinese dishes.

Sushi by Panda is located on the ground floor of HUB Main and serves sushi rolls and bowls as made-to-order or grab-n-go.

Aberdeen-Inverness Residential Restaurant offers continuous, all-you-care-to-eat dining in a relaxed, social

environment. With seven food stations, you will find a wide-selection of classic and international, healthy and hearty cuisines. Vegetarian, vegan and gluten-free options are offered daily. This residential restaurant is open to the public and located off Aberdeen Drive. The door rate for breakfast is **US\$8.75** per person, lunch is **US\$10.95** per person and dinner is **US\$12.25** per person. The restaurant is open Monday-Friday from 7:15 am to 2:30 pm and 5:00 pm to 8:00 pm. This restaurant is open on Sundays for brunch from 10:00 am to 2:30 pm and for Sunday dinner from 5:00 pm to 8:30 pm. Restaurant hours are subject to change without notice. For more information visit dining.ucr.edu/residentialrestaurants/aberdeeninvernessrestaurants.html.

Lothian Residential Restaurant offers continuous, all-you-care-to-eat dining in a relaxed, social environment. Lothian's seven food stations offer a wide selection of classic and international, healthy, and hearty cuisines. Vegetarian, vegan and gluten-free options are offered daily. This residential restaurant is open to the public and located off Big Springs Road, adjacent to The Market at Glen Mor. The door rate for breakfast is **US\$8.75** per person, lunch is **US\$10.95** per person and dinner is **US\$12.25** per person. The restaurant is open Monday-Friday from 7:15 am to 2:30 pm and 5:00 pm to 8:00 pm. This restaurant is open on Saturdays for brunch from 10:00 am to 2:30 pm and for Saturday dinner from 5:00 pm to 8:00 pm. Restaurant hours are subject to change without notice. For more information visit dining.ucr.edu/residentialrestaurants/lothianrestaurants.html.

Off Campus: University Village is about a 15 minute walk from the main campus on the North East corner of University Avenue & Iowa Avenue. Here you can dine, shop & play in an exquisite open-air environment. Canyon Crest Towne Centre is a short drive or bus ride from campus and offers numerous shops and over 20 restaurants as well as everyday conveniences including Rite Aid Pharmacy, a supermarket and banking facilities. More information on restaurants and local attractions in the Riverside area can be found at riversidecvb.com/dining/.

Some options for coffee include:

The Coffee Bean & Tea Leaf, 900 University Ave, Riverside; (951) 827-7270; www.coffeebean.com; coffeehouse chain serving a variety of beverages including its signature ice-blended options.

Starbucks, 1201 University Ave, Riverside; (951) 274-9605; Seattle-based coffeehouse chain known for its signature roasts, light bites and WiFi availability.

Boba Cafe, 1223 University Ave, Riverside; (951) 680-9998; bubble & milk teas share the menu with basic Chinese eats in a modest counter serve.

Some options nearby for dining include:

Holy Crab, 1223 University Ave, Riverside; (951) 405-8243; Cajun/Creole restaurant famous for mussels, seafood and Cajun fries.

Manna Grill, 1201 University Ave, Riverside; (951) 530-8033; casual restaurant boasting a variety of Korean street-food-style cuisines at an affordable price.

MEETINGS & CONFERENCES

Ramen Okawari, 3740 Iowa Ave., Riverside; (951) 680-9411; www.ramenokawari.com; Ramen Okawari specializes in serving a variety of traditional Japanese ramen noodle soups, rice bowls, and appetizers.

Popcorn Chicken, 1223 University Ave, Riverside; (951) 222-2238; www.taiwanpopcornchicken.com/index-5.html; authentic Taiwanese dishes including popcorn chicken, pork chop rice, chicken filet and beef noodle soup.

Pokilicious, 1400 University Ave, Riverside; (951) 779-4824; www.poki-licious.com; build your own fresh, healthy and delicious bowls and raw fish salads (Poke).

Zizi BBQ House, 3740 Iowa Ave, Riverside; (951) 534-0960; Korean BBQ restaurant with hibachi.

The Crusty Oven, 3740 Iowa Ave, Riverside; (951) 680-9134; casual restaurant with flatbread pizzas.

Jersey Mike's Subs, 1201 University Ave., Riverside; (951) 289-9541; New Jersey-based counter-serve sandwich chain serving jumbo subs filled with cold cuts & toppings.

Mong Kok Café, 1242 University Ave, Riverside; (951) 686-6688; casual Chinese restaurant with vegetarian and vegan options and a popular late night happy hour.

Elias Pita, 1490 University Ave., Riverside; (951) 686-6800; www.eliaspita.com/; counter-serve, halal operation preparing Middle Eastern comfort food such as kababs or falafels for eat-in or take-out.

Zacatecas Café, 3767 Iowa Ave., Riverside; (951) 683-3939; casual choice for familiar Mexican fare, including enchiladas, burritos, tamales & fajitas.

Sushiya, 1201 University Ave., Riverside; (951) 534-0702; sushiya-riverside.com; Japanese and sushi restaurant known for affordable sushi and drink specials with nice atmosphere.

The Sub Station, 3663 Canyon West Dr., Riverside; (951) 683-4523; substationucr.com; home of 'The Big Dude' serving hot, cold and vegetarian sandwiches since 1972.

Registration and Meeting Information

Advance Registration: Advance registration for this meeting opens on August 1, 2017. 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.

Onsite Information and Registration: The registration desk, AMS book exhibit, and coffee service will be located in the Highlander Union Building (HUB) 3rd Floor Lobby. The Invited Addresses and most of the Special Sessions and Contributed Paper Sessions will take place in the Highlander Union Building (HUB). 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 campusmap.ucr.edu/map.pdf.

The registration desk will be open on Saturday, November 4, 7:30 am to 4:00 pm and Sunday,

November 5, 8:00 am to 12:00 pm. The same fees apply for on-site registration, as for advance registration. Fees are payable on-site via 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. Not a member? Stop by the AMS Membership Exhibit to learn about the benefits of becoming an AMS Member. 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 University of California, Riverside. A campus map can be found at campusmap.ucr.edu/map.pdf. Information about the University of California, Riverside Mathematics Department can be found at mathdept.ucr.edu/. Please visit the university website at www.ucr.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

Attendees electing to stay at off campus hotels may park their car on campus in Parking Lot 1, located off of West Campus Drive. A parking attendant will be available to provide a parking pass courtesy of the Department of Mathematics at University of California, Riverside. Pedestrian directional signs will be available to guide attendees from the parking lot to the Highlander Union Building (HUB), where the majority of talks will be held.

A campus parking map is available at campusmap.ucr.edu/. Additional information about parking on campus can be found here parking.ucr.edu/visitor/kiosk.html.

Travel

This meeting will take place on the main campus of University of California, Riverside, located in the heart of Riverside, California.

By Air: Ontario International Airport (ONT) is about 20 miles northwest of Riverside and the most convenient air travel choice. By car, it takes less than 20 minutes to get to UCR from Ontario International Airport, however it can take longer during rush hours. Please visit the Ontario International Airport web site for a list of airlines and lists of cities with daily direct flights; www.flyontario.com/.

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

Several area hotels and motels offer courtesy shuttle service for guests traveling to and from Ontario International Airport. It is recommended that guests make transportation arrangements with their hotel or motel 72 hours in advance of traveling. Please inquire with your hotel in advance and visit www.flyontario.com/parking-transport/hotel-shuttles for a list of properties.

Super Shuttle curbside ambassadors are available in Terminal 2 from 9:00 am to 3:30 pm and from 4:30 pm to 11:00 pm. Super Shuttle curbside ambassadors are available in Terminal 4 from 8:30 am to 3:00 pm and from 5:30 pm to 12:00 am (midnight). For assistance outside scheduled hours, please call the Super Shuttle dispatch center at 916-999-3261. Travelers can find shared-ride van services (such as Super Shuttle) at the island curbs outside baggage claim. Service is available on a walk-up basis and by advanced reservation through the van transportation company. For more information on pricing please visit booking.supershuttle.com/. Please Note: The California Public Utilities Commission requires that drivers maintain a price list identifying the specific rates for passenger transportation between the airport and surrounding cities.

Taxi service is available at the curbside outside baggage claim in Terminals 2 and 4. Service is available on a walk-up basis. Please Note: All taxicabs must be equipped with a dashboard meter or rate card which is plainly visible to all passengers in the front and back seats of the vehicle. Some taxi services in the area include Bell Cab Company; www.sbycab.com and Yellow Cab Company; www.yellowcab.com.

Free shuttle service is provided for rental car customers between the passenger terminals and the Consolidated Rental Car center, where the on-airport rental car counters are located. The center is located at 3450 E. Airport Drive, near Haven Avenue. For more details on the various car rental companies available at the airport, please visit www.flyontario.com/parking-transport/rental-cars.

By Train: Metrolink is the regional rail system linking Riverside County to surrounding counties such as Los Angeles, Orange, San Bernardino, San Diego and Ventura. The Riverside-Downtown Station is located at 4066 Vine Street in Riverside. For a map of Metrolink routes please visit www.metrolinktrains.com/stations/detail/station_id/120.html.

By Car From Los Angeles County: From the 91 Freeway: Take CA-91 east to the CA-60 east. Exit at University Avenue and turn left. At the second light, take a right onto West Campus Drive.

From the 10 Freeway: Take the I-10 east to the I-15 south and then to CA-60 east. Exit at University Avenue and turn left. At the second light, take a right onto West Campus Drive.

From the 60 Freeway: Take the CA-60 east. Exit at University Avenue and turn left. At the second light, take a right onto West Campus Drive.

By Car From Ontario International Airport: From the 10 Freeway: Take the I-10 east, to the I-15 south and then to the CA-60 east. Exit at University Avenue and turn left. At the second light, take a right onto West Campus Drive.

From the 60 Freeway: Take the CA-60 east. Exit at University Avenue and turn left. At the second light, take a right onto West Campus Drive.

By Car From Orange County: Take the CA-91 east to the CA-60 east. Exit at University Avenue and turn left. At the second light, take a right onto West Campus Drive.

By Car From Palm Springs: Take the I-10 west to CA-60 west. Exit at University Avenue and turn left. At the second light, take a right onto West Campus Drive.

By Car From San Bernardino: Take the I-215 south to the CA-60 east. Exit at University Avenue and turn left. At the second light, take a right onto West Campus Drive.

By Car From San Diego County: Take the I-15 north to the I-215 north to the CA-60 west. Exit at University Avenue and turn left. At the second light, take a right onto West Campus 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#04N30007. You can also call Hertz directly at 800-654-2240 (U.S. 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 Riverside.

By Bus: The Riverside Transit Agency provides local bus services throughout Riverside and has 3 stops on campus. For a complete schedule and route map please visit www.riversidetransit.com/images/stories/DOWNLOADS/ROUTES/001.pdf. Please note: UCR no longer offers a campus bus service.

From Corona: Take the Metrolink from Corona to the Riverside-Downtown stop. The Riverside Transit Agency local bus services the Riverside-Downtown Metrolink Station.

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

Weather: The average high temperature for November is approximately 77 degrees Fahrenheit and the average low is approximately 50 degrees 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 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 U.S. 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.

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: September 26, 2017

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

Joint Invited Addresses

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

Moon Duchin, Tufts University, *Title to be announced* (MAA-AMS-SIAM Gerald and Judith Porter Public Lecture).

André Neves, University of Chicago, *Title to be announced* (AMS-MAA Invited Address).

AMS Invited Addresses

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

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

Cynthia Dwork, Harvard University, *Title to be announced* (AMS Josiah Willard Gibbs Lecture).

Dana Randall, Georgia Institute of Technology, *Title to be announced*.

Edriss Titi, Texas A&M University, *Title to be announced*.
Avi Wigderson, Princeton University, *Title to be announced* (AMS Colloquium Lectures).

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 (Code: SS 53A), **Adriana Salerno**, Bates College, and **Lola Thompson**, Oberlin College.

Accelerated Advances in Mathematical Fractional Programming (Code: SS 12A), **Ram Verma**, International Publications USA, and **Alexander Zaslavski**, Israel Institute of Technology.

Advances in Applications of Differential Equations to Disease Modeling (Code: SS 56A), **Libin Rong**, Oakland University, **Elissa Schwartz**, Washington State University, and **Naveen K. Vaidya**, University of Missouri - Kansas City.

Advances in Difference, Differential, and Dynamic Equations with Applications (Code: SS 20A), **Elvan Akin**, Missouri University S&T, and **John Davis**, Baylor University.

Advances in Operator Algebras (Code: SS 58A), **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 (Code: SS 42A), **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 (Code: SS 75A), **Vladimir Dragovic**, University of Texas at Dallas, **Anton Dzhamay**, University of Northern Colorado, and **Sevak Mkrтчyan**, University of Rochester.

Algebraic, Discrete, Topological and Stochastic Approaches to Modeling in Mathematical Biology (Code: SS 66A), **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 (Code: SS 11A), **John W. Dawson, Jr.**, Pennsylvania State University, York.

Analysis of Fractional, Stochastic, and Hybrid Dynamic Systems (Code: SS 13A), **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 (Code: SS 85A), **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 (Code: SS 55A), **Torin Greenwood**, Georgia Institute of Technology, and **Jay Pantone**, Dartmouth College.

Arithmetic Dynamics (Code: SS 41A), **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) (Code: SS 15A), **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 (Code: SS 61A), **Arzu Bilgin** and **Toufik Khyat**, University of Rhode Island.

Boundaries for Groups and Spaces (Code: SS 7A), **Joseph Maher**, CUNY College of Staten Island, and **Genevieve Walsh**, Tufts University.

Combinatorial Commutative Algebra and Polytopes (Code: SS 1A), **Robert Davis**, Michigan State University, and **Liam Solus**, KTH Royal Institute of Technology.

Combinatorics and Geometry (Code: SS 70A), **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 (Code: SS 67A), **Neil Epstein**, George Mason University, **Karl Schwede**, University of Utah, and **Janet Vassilev**, University of New Mexico.

Computational Combinatorics and Number Theory (Code: SS 76A), **Jeremy F. Alm**, Lamar University, and **David Andrews** and **Rob Hochberg**, University of Dallas.

Connections in Discrete Mathematics: Graphs, Hypergraphs, and Designs (Code: SS 80A), **Amin Bahmanian**, Illinois State University, and **Theodore Molla**, University of Illinois Urbana-Champaign.

Differential Geometry (Code: SS 28A), **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 (Code: SS 29A), **Shabnam Akhtari**, University of Oregon, **Lenny Fukshansky**, Claremont McKenna College, and **Clayton Petsche**, Oregon State University.

Discrete Dynamical Systems and Applications (Code: SS 51A), **E. Cabral Balreira**, **Saber Elaydi**, and **Eddy Kwessi**, Trinity University.

Discrete Neural Networking and Applications (Code: SS 6A), **Murat Adivar**, Fayetteville State University, **Michael A. Radin**, Rochester Institute of Technology, and **Youssef Raffoul**, University of Dayton.

Dynamical Algebraic Combinatorics (Code: SS 68A), **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.

MEETINGS & CONFERENCES

Dynamical Systems with Applications to Mathematical Biology (Code: SS 79A), **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) (Code: SS 16A), **Kathryn Lindsey**, Boston College, **Scott Schmieding**, Northwestern University, and **Kurt Vinhage**, University of Chicago.

Emergent Phenomena in Discrete Models (Code: SS 82A), **Dana Randall**, Georgia Institute of Technology, and **Andrea Richa**, Arizona State University.

Emerging Topics in Graphs and Matrices (Code: SS 60A), **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 (Code: SS 71A), **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 (Code: SS 81A), **Ram Mohapatra**, University of Central Florida.

Financial Mathematics, Actuarial Sciences, and Related Fields (Code: SS 48A), **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 (Code: SS 59A), **Christopher S. Goodrich**, Creighton Preparatory School, and **Rajendra Dahal**, Coastal Carolina University.

Free Convexity and Free Analysis (Code: SS 21A), **J. William Helton**, University of California, San Diego, and **Igor Klep**, University of Auckland.

Geometric Analysis (Code: SS 86A), **Davi Maximo**, University of Pennsylvania, **Lu Wang**, University of Wisconsin-Madison, and **Xin Zhou**, University of California Santa Barbara.

Geometric Analysis and Geometric Flows (Code: SS 54A), **David Glickenstein**, University of Arizona, and **Brett Kotschwar**, Arizona State University.

History of Mathematics (Code: SS 50A), **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) (Code: SS 14A), **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 (Code: SS 25A), **Edray Goins** and **David Goldberg**, Purdue University, and **Phil Kutzko**, University of Iowa.

Interactions of Inverse Problems, Signal Processing, and Imaging (Code: SS 36A), **M. Zuhair Nashed**, University of

Central Florida, **Willi Freeden**, University of Kaiserslautern, and **Otmar Scherzer**, University of Vienna.

Markov Chains, Markov Processes and Applications (Code: SS 27A), **Alan Krinik** and **Randall J. Swift**, California State Polytechnic University.

Mathematical Analysis and Nonlinear Partial Differential Equations (Code: SS 33A), **Hongjie Dong**, Brown University, **Peiyong Wang**, Wayne State University, and **Jiuyi Zhu**, Louisiana State University.

Mathematical Fluid Mechanics: Analysis and Applications (Code: SS 38A), **Zachary Bradshaw** and **Aseel Farhat**, University of Virginia.

Mathematical Information in the Digital Age of Science (Code: SS 83A), **Patrick Ion**, University of Michigan, **Olaf Teschke**, zbMath Berlin, and **Stephen Watt**, University of Waterloo.

Mathematical Methods in Genomics (Code: SS 4A), **David Koslicki**, Oregon State University.

Mathematical Modeling and Analysis of Infectious Diseases (Code: SS 65A), **Kazuo Yamazaki**, University of Rochester.

Mathematical Modeling of Natural Resources (Code: SS 39A), **Shandelle M. Henson**, Andrews University, and **Natali Hritonenko**, Prairie View A&M University.

Mathematical Modeling, Analysis and Applications in Population Biology (Code: SS 47A), **Yu Jin**, University of Nebraska-Lincoln, and **Ying Zhou**, Lafayette College.

Mathematical Problems in Ocean Wave Modeling and Fluid Mechanics (Code: SS 49A), **Christopher W. Curtis**, San Diego State University, and **Katie Oliveras**, Seattle University.

Mathematical Relativity and Geometric Analysis (Code: SS 72A), **James Dilts** and **Michael Holst**, University of California, San Diego.

Mathematics Research from the SMALL Undergraduate Research Program (Code: SS 73A), **Colin Adams**, **Frank Morgan**, and **Cesar E. Silva**, Williams College.

Mathematics of Gravitational Wave Science (Code: SS 40A), **Andrew Gillette** and **Nikki Holtzer**, University of Arizona.

Mathematics of Quantum Computing and Topological Phases of Matter (Code: SS 26A), **Paul Bruillard**, Pacific Northwest National Laboratory, **David Meyer**, University of California San Diego, and **Julia Plavnik**, Texas A&M University.

Metric Geometry and Topology (Code: SS 77A), **Christine Escher**, Oregon State University, and **Catherine Searle**, Wichita State University.

Modeling in Differential Equations - High School, Two-Year College, Four-Year Institution (Code: SS 22A), **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 (Code: SS 37A), **Salim M. Haidar**, Grand Valley State University.

Network Science (Code: SS 31A), **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 (Code: SS 10A), **Richard Montgomery**, University of California Santa Cruz, and **Zhifu Xie**, University of Southern Mississippi.

Nilpotent and Solvable Geometry, I (Code: SS 32A), **Michael Jablonski**, University of Oklahoma, **Megan Kerr**, Wellesley College, and **Tracy Payne**, Idaho State University.

Noncommutative Algebras and Noncommutative Invariant Theory (Code: SS 24A), **Ellen Kirkman**, Wake Forest University, and **James Zhang**, University of Washington.

Nonlinear Evolution Equations of Quantum Physics and Their Topological Solutions (Code: SS 34A), **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 (Code: SS 35A), **Ellina Grigorieva**, Texas Womans University, and **Natali Hritonenko**, Prairie View A&M University.

Open and Accessible Problems for Undergraduate Research (Code: SS 18A), **Michael Dorff**, Brigham Young University, **Allison Henrich**, Seattle University, and **Nicholas Scoville**, Ursinus College.

Operators on Function Spaces in One and Several Variables (Code: SS 45A), **Catherine Bénéteau**, University of South Florida, and **Matthew Fleeman** and **Constanze Liaw**, Baylor University.

Orthogonal Polynomials and Applications (Code: SS 17A), **Abey Lopez-Garcia**, University of South Alabama, and **Xiang-Sheng Wang**, University of Louisiana at Lafayette.

Orthogonal Polynomials, Quantum Probability, and Stochastic Analysis (Code: SS 8A), **Julius N. Esunge**, University of Mary Washington, and **Aurel I. Stan**, Ohio State University.

Quantum Link Invariants, Khovanov Homology, and Low-dimensional Manifolds (Code: SS 64A), **Diana Hubbard**, University of Michigan, and **Christine Ruey Shan Lee**, University of Texas at Austin.

Quaternions (Code: SS 23A), **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 (Code: SS 2A), **Sara Pollock**, Wright State University, and **Leo Rebholz**, Clemson University.

Research by Postdocs of the Alliance for Diversity in Mathematics (Code: SS 62A), **Aloysius Helminck**, University of Hawaii - Manoa, and **Michael Young**, Iowa State University.

Research from the Rocky Mountain-Great Plains Graduate Research Workshop in Combinatorics (Code: SS 69A), **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 (Code: SS 46A), **Michael Bishop**, **Marat Markin**, **Khang Tran**, and **Oscar Vega**, California State University, Fresno.

Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs (Code: SS 19A), **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 (Code: SS 5A), **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) (Code: SS 43A), **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) (Code: SS 9A), **Susanna Fishel**, Arizona State University, **Mourad Ismail**, University of Central Florida, and **Vic Reiner**, University of Minnesota.

Spectral Theory, Disorder and Quantum Physics (Code: SS 57A), **Rajinder Mavi** and **Jeffery Schenker**, Michigan State University.

Stochastic Processes, Stochastic Optimization and Control, Numerics and Applications (Code: SS 78A), **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 (Code: SS 74A), **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 (Code: SS 30A), **Siu-Hung Ng**, Louisiana State University, and **Lance Small** and **Henry Tucker**, University of California, San Diego.

Theory, Practice, and Applications of Graph Clustering (Code: SS 63A), **David Gleich**, Purdue University, and **Jennifer Webster** and **Stephen J. Young**, Pacific Northwest National Laboratory.

Topological Data Analysis (Code: SS 84A), **Henry Adams**, Colorado State University, **Gunnar Carlsson**, Stanford University, and **Mikael Vejdemo-Johansson**, CUNY College of Staten Island.

Topological Graph Theory: Structure and Symmetry (Code: SS 3A), **Jonathan L. Gross**, Columbia University, and **Thomas W. Tucker**, Colgate University.

Visualization in Mathematics: Perspectives of Mathematicians and Mathematics Educators (Code: SS 52A), **Karen Allen Keene**, North Carolina State University, and **Mile Krajcevski**, University of South Florida.

Women in Symplectic and Contact Geometry and Topology (Code: SS 44A), **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/amsmtgs/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.

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

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 **Osvaldo 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.

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

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.

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 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.

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

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: September 14, 2017

For abstracts: February 6, 2018

The scientific information listed below may be dated. For the latest information, see www.ams.org/amsmtg/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 and Combinatorial Structures in Knot Theory (Code: SS 3A), **Allison Henrich**, Seattle University, **Inga Johnson**, Willamette University, and **Sam Nelson**, Claremont McKenna College.

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.

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

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.

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: September 14, 2017

For abstracts: February 13, 2018

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

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

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.

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 (Code: SS 1A), **Mrinal Kanti Roychowdhury**, University of Texas Rio Grande Valley.

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.

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: September 21, 2017

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 Chicago, *Title to be announced.*

Edward Frenkel, University of California, Berkeley, *Title to be announced* (Einstein Public Lecture in Mathematics).

Valentino Tosatti, Northwestern University, *Title to be announced.*

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 and Extremal Graph Theory (Code: SS 13A), **Sebastian Cioaba**, University of Delaware, and **Michael Tait**, Carnegie Mellon University.

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. Suciu**, Northeastern University.

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

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

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

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.

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

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.

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

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

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/amsmtg/internmtgs.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.*

Fayetteville, Arkansas

University of Arkansas

October 6–7, 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: March 6, 2018

For abstracts: August 7, 2018

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

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**, Univer-

sity 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.

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.

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

Program issue of electronic *Notices*: To be announced

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/amsmtgsectional.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.*

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 and Western Joint Sectional Meeting
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/amsmtgs/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*.

Request for Proposals for Special Sessions at the AMS Joint Central and Western Sectional Meeting University of Hawaii at Manoa, Honolulu, HI, March 22–24, 2019

The AMS solicits proposals for Special Sessions at the 2019 Joint AMS Central and Western Sectional Meeting to be held Friday March 22 through Sunday March 24, 2019 at the University of Hawaii at Manoa, Honolulu, Hawaii. Each proposal must include:

1. the name, affiliation, and e-mail address of each organizer, with one organizer designated as the contact person for all communication about the session;
2. the title and a brief description (no longer than one or two paragraphs) of the topic of the proposed Special Session;
3. the primary two-digit MSC (Mathematics Subject Classification) number for the topic—see www.ams.org/mathscinet/msc/msc2010.html;
4. a sample list of the names of up to ten speakers and their institutions, whom the organizers plan to invite. (It is not necessary to have received confirmed commitments from these potential speakers.)

Organizers are strongly encouraged to consult the AMS Manual for Special Session Organizers at: www.ams.org/meetings/specialsessionmanual.html.

Proposals for Special Sessions should be sent by e-mail to AMS Associate Secretary, Michel Lapidus (lapidus@math.ucr.edu), by May 15, 2018. The contact organizer of the proposal will be notified whether their proposal has been accepted after the May 15, 2018 deadline for proposals has passed, but no later than June 15, 2018.

Special Sessions will be allotted between five and fifteen hours in which to schedule speakers. Additional instructions and the session's schedule will be sent to the contact organizer of the accepted sessions by July 1, 2018.

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

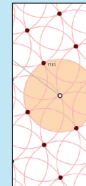
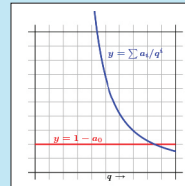
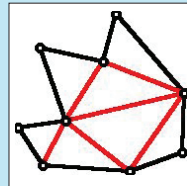
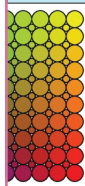
Program first available on AMS website: November 1, 2020

Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 1, 2020

For abstracts: To be announced



THE FEATURE COLUMN

monthly essays on mathematical topics

Each month, the Feature Column provides an online in-depth look at a mathematical topic. Complete with graphics, links, and references, the columns cover a wide spectrum of mathematics and its applications, often including historical figures and their contributions. The authors—David Austin, Bill Casselman, Joe Malkevitch, and Tony Phillips—share their excitement about developments in mathematics.

Recent essays include:

Hidden Symmetries of Labyrinths from Antiquity and the Middle Ages

Circles and Squares

Petals, Flowers and Circle Packings

Are Precise Definitions a Good Idea?

Knot Quandaries Quelled by Quandles

The Legend of Abraham Wald

It Just Keeps Piling Up!

Mathematics and Crystal Balls

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