

Program Timetable

This document provides a thumbnail sketch of all scientific and social events so you can easily see which events may overlap and better plan your time.

Tuesday, January 02

JMM (JOINT MATHEMATICS MEETINGS)

2:00–7:00 p.m. *Joint Meetings Registration*

Wednesday, January 03

JMM (JOINT MATHEMATICS MEETINGS)

7:00 a.m.–3:00 p.m. *Joint Meetings Registration*

8:00 a.m.–3:00 p.m. *Employment Center*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

8:00 a.m.–12:00 p.m. *AIM Special Session Associated with the Alexanderson Award and Lecture, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)

8:00 a.m.–12:00 p.m. *AMS Special Session on Advances in Coding Theory, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Algebraic Approaches to Mathematical Biology, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Applications of Hypercomplex Analysis, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Applied Topology: Theory, Algorithms, and Applications, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Combinatorial Insights into Algebraic Geometry, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Commutative Algebra and Algebraic Geometry (associated with the Invited Address by Daniel Erman), I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Computable Mathematics: A Special Session Dedicated to Martin D. Davis, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Developing Students' Technical Communication Skills through Mathematics Courses, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Dynamical Systems Modeling for Biological and Social Systems, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Ethics in the Mathematics Classroom, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Extremal and Probabilistic Combinatorics, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Geometric Group Theory (associated with the AMS Retiring Presidential Address), I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Harmonic Analysis, Geometry Measure Theory, and Fractals, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Homological Techniques in Noncommutative Algebra, I*

8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Integer Partitions, Arc Spaces and Vertex operators, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Mathematical Modeling and Simulation of Biomolecular Systems, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Mathematics and the Arts, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Mathematics of DNA and RNA, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Metric Dimension of Graphs and Related Topics, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Modeling Complex Adaptive Systems in Life and Social Sciences, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Modeling to Motivate the Teaching of the Mathematics of Differential Equations, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Modelling with Copulas: Discrete vs Continuous Dependent Data, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Number Theory in Memory of Kevin James, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Numerical Analysis, Spectral Graph Theory, Orthogonal Polynomials, and Quantum Algorithms, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Recent Advances in Mathematical Models of Diseases: Analysis and Computation, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Research Presentations by Math Alliance Scholar Doctorates, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Serious Recreational Mathematics, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Theoretical and Numerical Aspects of Nonlocal Models, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Theta Correspondence, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Topics in Equivariant Algebra, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Undergraduate Research Activities in Mathematical and Computational Biology, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS Special Session on Water Waves, I</i>
8:00 a.m.–12:00 p.m.	<i>AMS-AWM Special Session for Women and Gender Minorities in Symplectic and Contact Geometry and Topology, I</i>
	AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)
8:00 a.m.–12:00 p.m.	<i>AWM Special Session on EvenQuads Live and in person: The honorees and the games</i>
8:00 a.m.–12:00 p.m.	<i>AWM Special Session on Women in Mathematical Biology</i>
	ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)
8:00 a.m.–12:00 p.m.	<i>ILAS Special Session on Generalized Numerical Ranges and Related Topics</i>
8:00 a.m.–12:00 p.m.	<i>ILAS Special Session on Innovative and Effective Ways to Teach Linear Algebra, I</i>
	SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)
8:00 a.m.–12:00 p.m.	<i>SLMath (MSRI) Special Session on Summer Research in Mathematics (SRiM): Recent Trends in Nonlinear Boundary Value Problems</i>
	TPSE (TRANSFORMING POST-SECONDARY EDUCATION)
8:00 a.m.–12:00 p.m.	<i>TPSE Contributed Paper Session on Using Institutional and National Data Sources to Recruit, Retain and Support a Diverse Population of Mathematics Students</i>
	ASL (ASSOCIATION OF SYMBOLIC LOGIC)
9:00–10:00 a.m.	<i>Association for Symbolic Logic Tutorial</i>
	JMM (JOINT MATHEMATICS MEETINGS)
9:00–11:00 a.m.	<i>Professional Enhancement Program (PEP) 1A: Visualizing Projective Geometry Through Photographs and Perspective Drawings</i>

- 9:00–11:00 a.m. *Professional Enhancement Program (PEP) 6A: Skills and Tools for Communicating your Research to the Public, Policymakers, and Future Funders*
- 9:00–11:00 a.m. *Professional Enhancement Program (PEP) 8A: Shaping Thoughtful Conversations on the Past and Future of Data*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 9:30–11:30 a.m. *SIAM Minisymposium on Scientific Machine Learning to Advance Modeling and Decision Support, I*
- INVITED ADDRESS**
- 9:45–10:50 a.m. *AMS John von Neumann Lecture - Ankur Moitra, Massachusetts Institute of Technology*
- JMM (JOINT MATHEMATICS MEETINGS)**
- 10:30 a.m.–12:00 p.m. *JMM Workshop: Building Conceptual Understanding of Multivariable Calculus using 3D Visualization in CalcPlot3D and 3D-Printed Surfaces*
- 10:30 a.m.–12:00 p.m. *JMM Workshop on Teaching Student-Centered Mathematics: Active Learning & the Learning Assistant Model*
- INVITED ADDRESSES**
- 11:00 a.m.–12:00 p.m. *AMS Erdős Lecture for Students - John Urschel*
- 1:00–2:00 p.m. *AMS Colloquium Lecture I - Terence Tao, University of California, Los Angeles*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
- 1:00–2:00 p.m. *Association for Symbolic Logic Tutorial*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
- 1:00–2:30 p.m. *AMS Committee on the Profession Panel Discussion: Building a Successful Research Career in Mathematics*
- PME (PI MU EPSILON)**
- 1:00–2:30 p.m. *PME Panel: What Every Student Should Know about the JMM*
- JMM (JOINT MATHEMATICS MEETINGS)**
- 1:00–3:00 p.m. *Professional Enhancement Program (PEP) 2A: GitHub for Mathematicians*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 1:00–4:30 p.m. *SIAM Minisymposium on Scientific Machine Learning to Advance Modeling and Decision Support, II*
- AIM (AMERICAN INSTITUTE OF MATHEMATICS)**
- 1:00–5:00 p.m. *AIM Special Session on Little School Dynamics: Cool Research by Researchers at PUIs, I*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
- 1:00–5:00 p.m. *AMS Special Session on Advances in Coding Theory, II*
- 1:00–5:00 p.m. *AMS Special Session on Algebraic Approaches to Mathematical Biology, II*
- 1:00–5:00 p.m. *AMS Special Session on Applications of Hypercomplex Analysis, II*
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- 1:00–5:00 p.m. *AMS Special Session on Modelling with Copulas: Discrete vs Continuous Dependent Data, II*
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- 1:00–5:00 p.m. *AMS Special Session on Numerical Analysis, Spectral Graph Theory, Orthogonal Polynomials, and Quantum Algorithms, II*
- 1:00–5:00 p.m. *AMS Special Session on Topological and Algebraic Approaches for Optimization, I*
- 1:00–5:00 p.m. *AMS Special Session on Recent Advances in Mathematical Models of Diseases: Analysis and Computation, II*
- 1:00–5:00 p.m. *AMS Special Session on Recent Progress in Inference and Sampling (associated with AMS Invited Address by Ankur Moitra), I*
- 1:00–5:00 p.m. *AMS Special Session on Research Presentations by Math Alliance Scholar Doctorates, II*
- 1:00–5:00 p.m. *AMS Special Session on Serious Recreational Mathematics, II*
- 1:00–5:00 p.m. *AMS Special Session on The EDGE (Enhancing Diversity in Graduate Education) Program: Pure and Applied Talks by Women Math Warriors, I*
- 1:00–5:00 p.m. *AMS Special Session on Theoretical and Numerical Aspects of Nonlocal Models, II*
- 1:00–5:00 p.m. *AMS Special Session on Theta Correspondence, II*
- 1:00–5:00 p.m. *AMS Special Session on Topics in Equivariant Algebra, II*
- 1:00–5:00 p.m. *AMS Special Session on Undergraduate Research Activities in Mathematical and Computational Biology, II*
- 1:00–5:00 p.m. *AMS Special Session on Using 3D-Printed and Other Digitally-Fabricated Objects in the Mathematics Classroom, I*
- 1:00–5:00 p.m. *AMS Special Session on Water Waves, II*
- 1:00–5:00 p.m. *AMS-AWM Special Session for Women and Gender Minorities in Symplectic and Contact Geometry and Topology, II*
- 1:00–5:00 p.m. *AMS-AWM Special Session on Solvable Lattice Models and their Applications Associated with the Noether Lecture, I*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 1:00–5:00 p.m. *AWM Special Session on EvenQuads Live and in person: The honorees and the games*
- 1:00–5:00 p.m. *AWM Special Session on Women in Mathematical Biology*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 1:00–5:00 p.m. *ILAS Special Session on Generalized Numerical Ranges and Related Topics*

- 1:00–5:00 p.m. *ILAS Special Session on Innovative and Effective Ways to Teach Linear Algebra, I*
NAM (NATIONAL ASSOCIATION OF MATHEMATICIANS)
- 1:00–5:00 p.m. *NAM-SIAM-AMS Special Session on Quantitative Justice, I*
SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)
- 1:00–5:00 p.m. *SLMath (MSRI) Special Session on Summer Research in Mathematics (SRiM):
 Recent Trends in Nonlinear Boundary Value Problems*
TPSE (TRANSFORMING POST-SECONDARY EDUCATION)
- 1:00–5:00 p.m. *TPSE Contributed Paper Session on Using Institutional and National Data Sources to
 Recruit, Retain and Support a Diverse Population of Mathematics Students*
INVITED ADDRESS
- 2:15–3:20 p.m. *AMS Retiring Presidential Address - Ruth Charney, Brandeis University*
JMM (JOINT MATHEMATICS MEETINGS)
- 3:00–4:30 p.m. *JMM Panel: Decolonizing Mathematics*
- 4:30–5:45 p.m. *Awards Celebration*
- 6:00–8:30 p.m. *Exhibits and Book Sales*
SOCIAL EVENTS
- 6:00–8:30 p.m. *Grand Opening Reception*
- 8:45–9:45 p.m. *Wrong Answers Only*
- 8:45–10:00 p.m. *Yearly Gather: Collaborative Puzzle Time!*

Thursday, January 04

- JMM (JOINT MATHEMATICS MEETINGS)**
- 7:30 a.m.–4:00 p.m. *Joint Meetings Registration*
- 8:00 a.m.–5:30 p.m. *Employment Center*
- AIM (AMERICAN INSTITUTE OF MATHEMATICS)**
- 8:00 a.m.–12:00 p.m. *AIM Special Session on Little School Dynamics: Cool Research by Researchers at PUIs, I*
- 8:00 a.m.–12:00 p.m. *AIM Special Session on Math Circle Activities as a Gateway Into Research, I*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Advances in Coding Theory, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Applications of Extremal Graph Theory to Network Design, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Applied Topology: Theory, Algorithms, and Applications, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Bridging Applied and Quantitative Topology, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Complex Social Systems (a Mathematics Research Communities session) I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Computable Mathematics: A Special Session Dedicated to
 Martin D. Davis, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Derived Categories, Arithmetic, and Geometry
 (a Mathematics Research Communities session) I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Developing Students' Technical Communication Skills through
 Mathematics Courses, II*

- 8:00 a.m.–12:00 p.m. *AMS Special Session on Dynamics and Management in Disease or Ecological Models (associated with the Gibbs Lecture by Suzanne Lenhart), I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Ergodic Theory, Symbolic Dynamics, and Related Topics, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Explicit Computation with Stacks (a Mathematics Research Communities session) I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Geometric Group Theory (associated with the AMS Retiring Presidential Address), II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Hamiltonian Systems and Celestial Mechanics, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Harmonic Analysis, Geometry Measure Theory, and Fractals, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Homological Techniques in Noncommutative Algebra, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Homotopy Theory, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Ideal and Factorization Theory in Rings and Semigroups, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Integer Partitions, Arc Spaces and Vertex Operators, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Looking Forward and Back: Common Core State Standards in Mathematics (CCSSM), 12 Years Later, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mathematical Physics and Future Directions, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mathematics of Computer Vision, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mathematics of DNA and RNA, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mock Modular forms, Physics, and Applications, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Modeling Complex Adaptive Systems in Life and Social Sciences, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Numerical Analysis, Spectral Graph Theory, Orthogonal Polynomials, and Quantum Algorithms, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Topological and Algebraic Approaches for Optimization, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Recent Developments on Markoff Triples, I*
- 8:00 a.m.–12:00 p.m. *AMS-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Research Presentations by Math Alliance Scholar Doctorates, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Ricci Curvatures of Graphs and Applications to Data Science (a Mathematics Research Communities session) I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Structure-preserving Algorithms, Analysis and Simulations for Differential Equations, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on The EDGE (Enhancing Diversity in Graduate Education) Program: Pure and Applied Talks by Women Math Warriors, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on The Teaching and Learning of Undergraduate Ordinary Differential Equations, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Theoretical and Numerical Aspects of Nonlocal Models, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Thresholds in Random Structures, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Water Waves, III*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
- 8:00 a.m.–12:00 p.m. *ASL Special Session on Descriptive Methods in Dynamics, Combinatorics, and Large Scale Geometry, I*

- PMA (PRO MATHEMATICA ARTE)**
8:00 a.m.–12:00 p.m. *BSM Special Session: Mathematical Research in Budapest for Students and Faculty*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
8:00 a.m.–12:00 p.m. *COMAP Contributed Paper Session: Integrating Modeling into Established Courses, I*
- NAM (NATIONAL ASSOCIATION OF MATHEMATICIANS)**
8:00 a.m.–12:00 p.m. *NAM Haynes-Granville-Browne Session of Presentations by Recent Doctoral Recipients*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
8:00 a.m.–12:00 p.m. *SLMath (MSRI) Special Session on Summer Research in Mathematics (SRiM): Recent Trends in Nonlinear Boundary Value Problems*
- 8:00 a.m.–12:00 p.m. *SLMath (MSRI) Special Session on African Diaspora Joint Mathematics Working Groups (ADJOINT)*
- INVITED ADDRESS**
8:30–9:35 a.m. *The Spectra Lavender Lecture*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
8:30–10:00 a.m. *SIAM Panel on Business-Industry-Government Careers for Mathematicians*
- JMM (JOINT MATHEMATICS MEETINGS)**
8:30–10:30 a.m. *Career Fair*
- 9:00–11:00 a.m. *Professional Enhancement Program (PEP) 1A: Visualizing Projective Geometry Through Photographs and Perspective Drawings*
- 9:00–11:00 a.m. *Professional Enhancement Program (PEP) 6A: Skills and Tools for Communicating your Research to the Public, Policymakers, and Future Funders*
- 9:00–11:00 a.m. *Professional Enhancement Program (PEP) 8B: Shaping Thoughtful Conversations on the Past and Future of Data*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
9:00–11:00 a.m. *SIAM Minisymposium on Mathematical Modeling of Complex Materials Systems*
- JMM (JOINT MATHEMATICS MEETINGS)**
9:00 a.m.–5:00 p.m. *Exhibits and Book Sales*
- INVITED ADDRESSES**
9:45–10:50 a.m. *AWM-AMS Noether Lecture - Anne Schilling, University of California, Davis*
9:45–10:50 a.m. *ILAS Invited Address - Stephan Ramon Garcia, Pomona College*
- PME (PI MU EPSILON)**
10:30 a.m.–12:00 p.m. *PME Panel: What Every Student Should Know about the JMM*
- JMM (JOINT MATHEMATICS MEETINGS)**
10:30 a.m.–12:00 p.m. *JMM Panel: The Future of Graduate Mathematics Textbooks*
- INVITED ADDRESSES**
11:00 a.m.–12:00 p.m. *AIM Alexanderson Award Lecture - Joni Teräväinen*
1:00–2:00 p.m. *AMS Colloquium Lecture II - Terence Tao, University of California, Los Angeles*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
1:00–2:30 p.m. *AMS Committee on Education Panel Discussion, I*
- TPSE (TRANSFORMING POST-SECONDARY EDUCATION)**
1:00–2:30 p.m. *TPSE Panel on Grading for Active Learning & Department Change*

JMM (JOINT MATHEMATICS MEETINGS)

- 1:00–3:00 p.m. *Professional Enhancement Program (PEP) 2A: GitHub for Mathematicians*
- 1:00–3:00 p.m. *Professional Enhancement Program (PEP) 5A: Development of Mathematics Programs for Workforce Preparation*

SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)

- 1:00–4:00 p.m. *SLMath (MSRI) Special Session on The MSRI Undergraduate Program (MSRI-UP)*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

- 1:00–5:00 p.m. *AIM Special Session on Graphs and Matrices, I*
- 1:00–5:00 p.m. *AIM Special Session on Math Circle Activities as a Gateway Into Research, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)

- 1:00–5:00 p.m. *AMS Special Session on Applications of Extremal Graph Theory to Network Design, II*
- 1:00–5:00 p.m. *AMS Special Session on Coding Theory for Modern Applications, I*
- 1:00–5:00 p.m. *AMS Special Session on Combinatorial Insights into Algebraic Geometry, II*
- 1:00–5:00 p.m. *AMS Special Session on Complex Analysis, Operator Theory, and Real Algebraic Geometry, I*
- 1:00–5:00 p.m. *AMS Special Session on Complex Social Systems (a Mathematics Research Communities session) II*
- 1:00–5:00 p.m. *AMS Special Session on Computational techniques to Study the Geometry of the Shape Space, I*
- 1:00–5:00 p.m. *AMS Special Session on Derived Categories, Arithmetic, and Geometry (a Mathematics Research Communities session) II*
- 1:00–5:00 p.m. *AMS Special Session on Ergodic theory, Symbolic Dynamics, and Related Topics, II*
- 1:00–5:00 p.m. *AMS Special Session on Explicit Computation with Stacks (a Mathematics Research Communities session) II*
- 1:00–5:00 p.m. *AMS Special Session on Geometric Group Theory (associated with the AMS Retiring Presidential Address), III*
- 1:00–5:00 p.m. *AMS Special Session on Hamiltonian Systems and Celestial Mechanics, II*
- 1:00–5:00 p.m. *AMS Special Session on Informal Learning, Identity, and Attitudes in Mathematics, I*
- 1:00–5:00 p.m. *AMS Special Session on Knots, Skein Modules, and Categorification, I*
- 1:00–5:00 p.m. *AMS Special Session on Loeb Measure after 50 Years, I*
- 1:00–5:00 p.m. *AMS Special Session on Looking Forward and Back: Common Core State Standards in Mathematics (CCSSM), 12 Years Later, II*
- 1:00–5:00 p.m. *AMS Special Session on Mathematical Modeling and Simulation of Biomolecular Systems, III*
- 1:00–5:00 p.m. *AMS Special Session on Mathematics and Philosophy, I*
- 1:00–5:00 p.m. *AMS Special Session on Mathematics and Quantum, I*
- 1:00–5:00 p.m. *AMS Special Session on Mathematics of Computer Vision, II*
- 1:00–5:00 p.m. *AMS Special Session on Metric Geometry and Topology, I*
- 1:00–5:00 p.m. *AMS Special Session on Mock Modular Forms, Physics, and Applications, II*
- 1:00–5:00 p.m. *AMS Special Session on Partition Theory and q -Series, I*
- 1:00–5:00 p.m. *AMS Special Session on Quaternions, I*
- 1:00–5:00 p.m. *AMS Special Session on Recent Developments on Markoff Triples, II*
- 1:00–5:00 p.m. *AMS Special Session on Recent Progress in Inference and Sampling (associated with AMS Invited Address by Ankur Moitra), II*

- 1:00–5:00 p.m. *AMS-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, II*
- 1:00–5:00 p.m. *AMS Special Session on Research Presentations by Math Alliance Scholar Doctorates, IV*
- 1:00–5:00 p.m. *AMS Special Session on Ricci Curvatures of Graphs and Applications to Data Science (a Mathematics Research Communities session) II*
- 1:00–5:00 p.m. *AMS Special Session on Structure-preserving Algorithms, Analysis and Simulations for Differential Equations, II*
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- 1:00–5:00 p.m. *AMS-AWM Special Session on Solvable Lattice Models and their Applications Associated with the Noether Lecture, II*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
- 1:00–5:00 p.m. *ASL Special Session on Descriptive Methods in Dynamics, Combinatorics, and Large Scale Geometry, I*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 1:00–5:00 p.m. *AWM Special Session on Recent Developments in Harmonic Analysis, I*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
- 1:00–5:00 p.m. *COMAP Contributed Paper Session: Integrating Modeling into Established Courses, II*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 1:00–5:00 p.m. *ILAS Special Session on Linear algebra, matrix theory, and its applications*
- PME (PI MU EPSILON)**
- 1:00–5:00 p.m. *PME Contributed Session on Research by Undergraduates*
- SPECTRA**
- 1:00–5:00 p.m. *Spectra Workshop: Creating an Inclusive Undergraduate Mathematics Curriculum*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 1:00–6:00 p.m. *SIAM Minisymposium on Mathematics of Bacterial Viruses: From Virus Discovery to Mathematical Principles*
- INVITED ADDRESSES**
- 2:15–3:20 p.m. *AMS Invited Address II - Daniel Erman, University of Wisconsin-Madison*
- 2:15–3:20 p.m. *NAM Claytor-Woodard Lecture - Shelly M. Jones, Central Connecticut State University*
- NSF (NATIONAL SCIENCE FOUNDATION)**
- 2:30–5:00 p.m. *NSF Special Session on Exploring Funding Opportunities in the Division of Mathematical Sciences*
- TPSE (TRANSFORMING POST-SECONDARY EDUCATION)**
- 3:00–4:30 p.m. *TPSE Panel on Developing Innovative Upper Division Pathways in Mathematics: Strategies for Enrollment and Inclusion*
- INVITED ADDRESSES**
- 3:30–4:30 p.m. *ASA Invited Address - Kathy Ensor, Rice University*
- 3:30–4:35 p.m. *AMS Invited Address I - Kimberly Sellers, Georgetown University*

5:00–6:00 p.m. *AMS Josiah Willard Gibbs Lecture - Suzanne Lenhart, University of Tennessee*

SOCIAL EVENTS

6:00–7:00 p.m. *American Statistical Association Reception*

6:00–7:00 p.m. *Budapest Semesters in Mathematics Annual Alumni Reception*

6:00–7:00 p.m. *Nevertheless She Persisted: The Daughters of Hypatia*

6:00–7:30 p.m. *Canada/USA Mathcamp Alumni and Friends Gathering*

7:00–8:00 p.m. *AMS Journal Reviewer Appreciation Reception*

7:00–9:00 p.m. *Society for Industrial and Applied Mathematics (SIAM) Reception on Industrial Math Modeling*

8:00–9:30 p.m. *American Institute for Mathematics Math Circle Dessert and Games Night Reception*

8:15–9:45 p.m. *Knitting Circle*

Friday, January 05

JMM (JOINT MATHEMATICS MEETINGS)

7:30 a.m.–4:00 p.m. *Joint Meetings Registration*

8:00 a.m.–5:30 p.m. *Employment Center*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

8:00 a.m.–12:00 p.m. *AIM Special Session Associated with the Alexanderson Award and Lecture, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)

8:00 a.m.–12:00 p.m. *AMS-AAAS Special Session on Large Random Permutations (affiliated with the AAAS-AMS Invited Address by Peter Winkler), I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Advances in Analysis, PDE's and Related Applications, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Analysis and Differential Equations at Undergraduate Institutions, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Applied Topology: Theory, Algorithms, and Applications, III*

8:00 a.m.–12:00 p.m. *AMS Special Session on Arithmetic Geometry with a View toward Computation, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Bridging Applied and Quantitative Topology, II*

8:00 a.m.–12:00 p.m. *AMS Special Session on Coding Theory for Modern Applications, II*

8:00 a.m.–12:00 p.m. *AMS Special Session on Complex Analysis, Operator Theory, and Real Algebraic Geometry, II*

8:00 a.m.–12:00 p.m. *AMS Special Session on Covering Systems of the Integers and Their Applications, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Cryptography and Related Fields, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Dynamical Systems Modeling for Biological and Social Systems, III*

8:00 a.m.–12:00 p.m. *AMS Special Session on Dynamics and Management in Disease or Ecological Models (associated with the Gibbs Lecture by Suzanne Lenhart), II*

8:00 a.m.–12:00 p.m. *AMS Special Session on Ergodic Theory, Symbolic Dynamics, and Related Topics, III*

8:00 a.m.–12:00 p.m. *AMS Special Session on Geometry and Topology of High-Dimensional Biomedical Data, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Group Actions in Commutative Algebra, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on History of Mathematics, I*

8:00 a.m.–12:00 p.m. *AMS Special Session on Homotopy Theory, II*

8:00 a.m.–12:00 p.m. *AMS Special Session on Ideal and Factorization Theory in Rings and Semigroups, II*

- 8:00 a.m.–12:00 p.m. *AMS Special Session on Interplay Between Matrix Theory and Markov Systems: Applications to Queueing Systems and of Duality Theory, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Issues, Challenges and Innovations in Instruction of Linear Algebra, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Knots, Skein Modules, and Categorification, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Looking Forward and Back: Common Core State Standards in Mathematics (CCSSM), 12 Years Later, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mathematical Modeling of Nucleic Acid Structures, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mathematics and Philosophy, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mathematics and Quantum, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Modular Tensor Categories and TQFTs beyond the Finite and Semisimple, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Recent Advances in Stochastic Differential Equation Theory and its Applications in Modeling Biological Systems, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Thresholds in Random Structures, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Topics in Combinatorics and Graph Theory, I*
- 8:00 a.m.–12:00 p.m. *AMS-AWM Special Session for Women and Gender Minorities in Symplectic and Contact Geometry and Topology, III*
- 8:00 a.m.–12:00 p.m. *AMS-AWM Special Session on Solvable Lattice Models and their Applications Associated with the Noether Lecture, III*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 8:00 a.m.–12:00 p.m. *AWM Special Session on Women in Mathematical Biology*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
- 8:00 a.m.–12:00 p.m. *COMAP Special Session on Math Modeling Contests: What They Are, How They Benefit, What They Did – Discussions with the Students and Advisors*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 8:00 a.m.–12:00 p.m. *ILAS Special Session on Linear algebra, matrix theory, and its applications*
- 8:00 a.m.–12:00 p.m. *ILAS Special Session on Sign-pattern Matrices and Their Applications*
- PME (PI MU EPSILON)**
- 8:00 a.m.–12:00 p.m. *PME Contributed Session on Research by Undergraduates*
- SPECTRA**
- 8:00 a.m.–12:00 p.m. *Spectra Special Session on Research by LGBTQ+ Mathematicians*
- JMM (JOINT MATHEMATICS MEETINGS)**
- 8:30–10:00 a.m. *Graduate School Fair*
- 8:30–10:00 a.m. *JMM Panel: Regional Math Alliances: Activities and Formation of Regional Groups to Support the Goals of the National Math Alliance*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 8:30–11:30 a.m. *SIAM Minisymposium on Computational Mathematics and the Power Grid*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
- 9:00–10:00 a.m. *ASL Invited Address*
- INVITED ADDRESS**
- 9:00–10:30 a.m. *MAA-SIAM-AMS Hrabowski-Gates-Tapia-McBay Lecture by Kamuela Yong followed by the MAA-SIAM-AMS Hrabowski-Gates-Tapia-McBay Panel*

JMM (JOINT MATHEMATICS MEETINGS)

9:00–11:00 a.m. *Professional Enhancement Program (PEP) 3A: Changing Math Department Culture: Embracing Servingness*

9:00–11:00 a.m. *Professional Enhancement Program (PEP) 7A: Effective Technical Advocacy: How to Talk About Mathematics so Policymakers will Hear you*

9:00–11:00 a.m. *Professional Enhancement Program (PEP) 9A: Developing Learning Activities for Multivariable Calculus using CalcPlot3D and 3D-Printed Surfaces*

SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)

9:00 a.m.–12:00 p.m. *SLMath (MSRI) Special Session on The MSRI Undergraduate Program (MSRI-UP)*

JMM (JOINT MATHEMATICS MEETINGS)

9:00 a.m.–5:00 p.m. *Exhibits and Book Sales*

INVITED ADDRESS

9:45–10:50 a.m. *CRM-PIMS-AARMS Invited Address - Henri Darmon, McGill University*

ASL (ASSOCIATION OF SYMBOLIC LOGIC)

10:00–11:00 a.m. *ASL Invited Address*

AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)

10:30 a.m.–12:00 p.m. *AWM Workshop: Mathematicians + Wikipedia – A Training Edit-a-thon*

INVITED ADDRESSES

11:00 a.m.–12:00 p.m. *SIAM Invited Address - Mariel Vazquez, UC Davis*

11:00 a.m.–12:00 p.m. *TPSE Invited Address - Sylvester James Gates, Jr, Clark Leadership Chair in Science, University of Maryland*

PME (PI MU EPSILON)

12:00–1:30 p.m. *AMS-PME Undergraduate Student Poster Session, I*

ASL (ASSOCIATION OF SYMBOLIC LOGIC)

1:00–2:00 p.m. *ASL Invited Address*

INVITED ADDRESS

1:00–2:00 p.m. *AMS Colloquium Lecture III - Terence Tao, University of California, Los Angeles*

AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)

1:00–2:30 p.m. *AWM Panel: Celebrating Academic Pivots in Mathematics*

JMM (JOINT MATHEMATICS MEETINGS)

1:00–2:30 p.m. *JMM Workshop on Leveraging Research-Based Instruction in Introductory Proofs Courses*

1:00–3:00 p.m. *Professional Enhancement Program (PEP) 4A: Becoming a Math JEDI: Working for Justice, Equity, Diversity, and Inclusion*

1:00–3:00 p.m. *Professional Enhancement Program (PEP) 5A: Development of Mathematics Programs for Workforce Preparation*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

1:00–5:00 p.m. *AIM Special Session on Graphs and Matrices, I*

1:00–5:00 p.m. *AIM Special Session on Math Circle Activities as a Gateway Into Research, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)

1:00–5:00 p.m. *AIM-AMS Special Session on Applied Topology Beyond Persistence Diagrams, I*

1:00–5:00 p.m. *AMS Special Session on Algebraic Structures in Knot Theory, I*

- 1:00–5:00 p.m. *AMS Special Session on Analysis and Differential Equations at Undergraduate Institutions, II*
- 1:00–5:00 p.m. *AMS Special Session on Combinatorial Perspectives on Algebraic Curves and their Moduli, I*
- 1:00–5:00 p.m. *AMS Special Session on Combinatorics for Science, I*
- 1:00–5:00 p.m. *AMS Special Session on Computational Biomedicine: Methods - Models - Applications, I*
- 1:00–5:00 p.m. *AMS Special Session on Diffusive Systems in the Natural Sciences, I*
- 1:00–5:00 p.m. *AMS Special Session on Discrete Homotopy Theory, I*
- 1:00–5:00 p.m. *AMS Special Session on Dynamics and Management in Disease or Ecological Models (associated with the Gibbs Lecture by Suzanne Lenhart), III*
- 1:00–5:00 p.m. *AMS Special Session on Dynamics and Regularity of PDEs, I*
- 1:00–5:00 p.m. *AMS Special Session on Epistemologies of the South and the Mathematics of Indigenous Peoples, I*
- 1:00–5:00 p.m. *AMS Special Session on Exploring Spatial Ecology via Reaction Diffusion Models: New Insights and Solutions, I*
- 1:00–5:00 p.m. *AMS Special Session on Geometric Analysis in Several Complex Variables, I*
- 1:00–5:00 p.m. *AMS Special Session on Geometric Group Theory (associated with the AMS Retiring Presidential Address), IV*
- 1:00–5:00 p.m. *AMS Special Session on Geometry and Symmetry in Differential Equations, Control, and Applications, I*
- 1:00–5:00 p.m. *AMS Special Session on Group Actions in Commutative Algebra, II*
- 1:00–5:00 p.m. *AMS Special Session on History of Mathematics, II*
- 1:00–5:00 p.m. *AMS Special Session on Ideal and Factorization Theory in Rings and Semigroups, III*
- 1:00–5:00 p.m. *AMS Special Session on Informal Learning, Identity, and Attitudes in Mathematics, II*
- 1:00–5:00 p.m. *AMS Special Session on Interplay Between Matrix Theory and Markov Systems: Applications to Queueing Systems and of Duality Theory, II*
- 1:00–5:00 p.m. *AMS Special Session on Issues, Challenges and Innovations in Instruction of Linear Algebra, II*
- 1:00–5:00 p.m. *AMS Special Session on Loeb Measure after 50 Years, II*
- 1:00–5:00 p.m. *AMS Special Session on Modern Developments in the Theory of Configuration Spaces, I*
- 1:00–5:00 p.m. *AMS Special Session on Navigating the Benefits and Challenges of Mentoring Students in Data-Driven Undergraduate Research Projects, I*
- 1:00–5:00 p.m. *AMS Special Session on New Faces in Operator Theory and Function Theory, I*
- 1:00–5:00 p.m. *AMS Special Session on Nonlinear Dynamics in Human Systems: Insights from Social and Biological Perspectives, I*
- 1:00–5:00 p.m. *AMS Special Session on Partition Theory and q -Series, II*
- 1:00–5:00 p.m. *AMS Special Session on Principles, Spatial Reasoning, and Science in First-Year Calculus, I*
- 1:00–5:00 p.m. *AMS Special Session on Quaternions, II*
- 1:00–5:00 p.m. *AMS Special Session on Spectral Methods in Quantum Systems, I*
- 1:00–5:00 p.m. *AMS Special Session on The Mathematics of Decisions, Elections, and Games, I*
- 1:00–5:00 p.m. *AMS Special Session on Topics in Combinatorics and Graph Theory, II*
- 1:00–5:00 p.m. *AMS-AWM Special Session for Women and Gender Minorities in Symplectic and Contact Geometry and Topology, IV*

- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
1:00–5:00 p.m. *AWM Special Session on Recent Developments in Harmonic Analysis, II*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
1:00–5:00 p.m. *COMAP Workshop on Modeling for Educators: Integrate Modeling into Your Classroom*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
1:00–5:00 p.m. *ILAS Special Session on Sign-pattern Matrices and Their Applications*
- SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**
1:00–5:00 p.m. *SLMath (MSRI) Special Session on African Diaspora Joint Mathematics Working Groups (ADJOINT)*
- SPECTRA**
1:00–5:00 p.m. *Spectra Special Session on Research by LGBTQ+ Mathematicians*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
1:00–6:00 p.m. *SIAM Minisymposium on Mathematical Methods in Computer Vision and Image Analysis*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
2:00–3:00 p.m. *ASL Invited Address*
- INVITED ADDRESS**
2:15–3:20 p.m. *PME J. Sutherland Frame Lecture - Trachette Jackson, University of Michigan*
- AMS (AMERICAN MATHEMATICAL SOCIETY)**
2:30–4:00 p.m. *AMS Committee on Science Policy Panel Discussion: Artificial Intelligence in Mathematics, Science, and Society*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
3:00–6:00 p.m. *ASL Contributed Paper Session*
- COMAP (CONSORTIUM FOR MATHEMATICS AND ITS APPLICATIONS)**
3:00–4:30 p.m. *COMAP Panel on Math Modeling Contests: Trends, Topics, and Tips*
- INVITED ADDRESS**
3:30–4:35 p.m. *AMS Maryam Mirzakhani Lecture - Melanie Wood, Harvard University*
- PME (PI MU EPSILON)**
3:30–5:00 p.m. *AMS-PME Undergraduate Student Poster Session, II*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
4:00–5:30 p.m. *AWM Workshop Poster Presentations*
- INVITED ADDRESS**
4:45–5:50 p.m. *AAAS-AMS Invited Address - Peter Winkler, Dartmouth College*
- OTHER ORGANIZATION**
5:30–6:30 p.m. *POMSIGMAA Guest Lecture and Discussion*
- INVITED ADDRESS**
7:45–8:45 p.m. *NAM Cox-Talbot Address - Ranthony A.C. Edmonds, Duke University*
- SOCIAL EVENTS**
5:00–6:30 p.m. *Association for Women in Mathematics Reception and Awards Presentation*
6:00–7:00 p.m. *Mathematically Bent Theater*
6:00–7:00 p.m. *Mathematical Reviews Reception*
6:00–7:30 p.m. *SLMath (MSRI) Reception for Current and Future Donors*

6:00–8:00 p.m.	<i>Undergraduate Student Reception</i>
6:00–9:00 p.m.	<i>National Association of Mathematicians Banquet</i>
8:00–10:00 p.m.	<i>Mathematical Variety Show</i>

Saturday, January 06

JMM (JOINT MATHEMATICS MEETINGS)

7:30 a.m.–2:00 p.m. *Joint Meetings Registration*

AIM (AMERICAN INSTITUTE OF MATHEMATICS)

8:00 a.m.–12:00 p.m. *AIM Special Session on Equivariant Techniques in Stable Homotopy Theory, I*

AMS (AMERICAN MATHEMATICAL SOCIETY)

- 8:00 a.m.–12:00 p.m. *AIM-AMS Special Session on Applied Topology Beyond Persistence Diagrams, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Advances in Analysis, PDE's and Related Applications, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Arithmetic Geometry with a View toward Computation, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Coding Theory for Modern Applications, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Combinatorial Perspectives on Algebraic Curves and their Moduli, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Combinatorics for Science, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Computational techniques to study the geometry of the shape space, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Cryptography and Related Fields, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Dynamics and Regularity of PDEs, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Epistemologies of the South and the Mathematics of Indigenous Peoples, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Exploring Spatial Ecology via Reaction Diffusion Models: New Insights and Solutions, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Geometric Analysis in Several Complex Variables, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Geometry and Symmetry in Differential Equations, Control, and Applications, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on History of Mathematics, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Knots, Skein Modules, and Categorification, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Large Random Permutations (affiliated with AAAS-AMS Invited Address by Peter Winkler), II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mathematical Modeling of Nucleic Acid Structures, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mathematics and the Arts, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Metric Geometry and Topology, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Mock Modular Forms, Physics, and Applications, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Modern Developments in the Theory of Configuration Spaces, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Modular Tensor Categories and TQFTs beyond the Finite and Semisimple, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on New Faces in Operator Theory and Function Theory, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Nonlinear Dynamics in Human Systems: Insights from Social and Biological Perspectives, II*

- 8:00 a.m.–12:00 p.m. *AMS Special Session on Polymath Jr REU Student Research, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Recent Advances in Stochastic Differential Equation Theory and its Applications in Modeling Biological Systems, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Recent Developments in Commutative Algebra, I*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Recent Developments in Numerical Methods for PDEs and Applications, I*
- 8:00 a.m.–12:00 p.m. *AMS-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Serious Recreational Mathematics, III*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Spectral Methods in Quantum Systems, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on The Mathematics of Decisions, Elections, and Games, II*
- 8:00 a.m.–12:00 p.m. *AMS Special Session on Undergraduate Research Activities in Mathematical and Computational Biology, III*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 8:00 a.m.–12:00 p.m. *AWM Special Session on Mathematics in the Literary Arts and Pedagogy in Creative Settings*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 8:00 a.m.–12:00 p.m. *ILAS Special Session on Graphs and Matrices*
- 8:00 a.m.–12:00 p.m. *ILAS Special Session on Spectral and combinatorial problems for nonnegative matrices and their generalizations*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 8:00 a.m.–12:00 p.m. *SIAM ED Session on Artificial Intelligence and its Uses in Mathematical Education, Research, and Automation in the Industry*
- 8:00 a.m.–12:00 p.m. *SIAM Minisymposium on Recent Developments in the Analysis and Control of Partial Differential Equations Arising in Fluid and Fluid-Structure Interactive Dynamics*
- ASL (ASSOCIATION OF SYMBOLIC LOGIC)**
- 9:00–10:00 a.m. *ASL Invited Address*
- JMM (JOINT MATHEMATICS MEETINGS)**
- 9:00–11:00 a.m. *Professional Enhancement Program (PEP) 7A: Effective Technical Advocacy: How to Talk About Mathematics so Policymakers will Hear you*
- 9:00–11:00 a.m. *Professional Enhancement Program (PEP) 9B: Developing Learning Activities for Multivariable Calculus using CalcPlot3D and 3D-Printed Surfaces*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 9:00–11:30 a.m. *AWM Workshop: Women in Operator Theory*
- JRMF (JULIA ROBINSON MATHEMATICS FESTIVAL)**
- 9:00 a.m.–12:00 p.m. *Julia Robinson Math Festival*
- JMM (JOINT MATHEMATICS MEETINGS)**
- 9:00 a.m.–2:00 p.m. *Exhibits and Book Sales*
- 9:00–11:00 a.m. *Professional Enhancement Program (PEP) 4A: Becoming a Math JEDI: Working for Justice, Equity, Diversity, and Inclusion*
- INVITED ADDRESS**
- 9:45–10:50 a.m. *AMS Lecture on Education - Suzanne Weekes, Society for Industrial and Applied Mathematics*

ASL (ASSOCIATION OF SYMBOLIC LOGIC)10:00–11:00 a.m. *ASL Invited Address***NAM (NATIONAL ASSOCIATION OF MATHEMATICIANS)**10:00–11:00 a.m. *NAM Business Meeting***SLMATH (MSRI/SIMONS LAUFER MATHEMATICAL SCIENCES INSTITUTE)**11:30 a.m.–1:00 p.m. *SLMath (MSRI) - NAM Film Presentation: World Premiere of George Csicsery's film "Journeys of Black Mathematicians: Part 1" and Panel Discussion***ASL (ASSOCIATION OF SYMBOLIC LOGIC)**1:00–2:00 p.m. *ASL Invited Address***JMM (JOINT MATHEMATICS MEETINGS)**1:00–3:00 p.m. *Professional Enhancement Program (PEP) 3A: Changing Math Department Culture: Embracing Servingness***AIM (AMERICAN INSTITUTE OF MATHEMATICS)**1:00–5:00 p.m. *AIM Special Session on Equivariant Techniques in Stable Homotopy Theory, I***AMS (AMERICAN MATHEMATICAL SOCIETY)**1:00–5:00 p.m. *AIM-AMS Special Session on Applied Topology Beyond Persistence Diagrams, III*1:00–5:00 p.m. *AMS Special Session on Advances in Analysis, PDE's and Related Applications, III*1:00–5:00 p.m. *AMS Special Session on Arithmetic Geometry with a View toward Computation, III*1:00–5:00 p.m. *AMS Special Session on Combinatorial Perspectives on Algebraic Curves and their Moduli, III*1:00–5:00 p.m. *AMS Special Session on Combinatorics for Science, III*1:00–5:00 p.m. *AMS Special Session on Computational techniques to study the geometry of the shape space, III*1:00–5:00 p.m. *AMS Special Session on Cryptography and Related Fields, III*1:00–5:00 p.m. *AMS Special Session on Diffusive Systems in the Natural Sciences, II*1:00–5:00 p.m. *AMS Special Session on Discrete Homotopy Theory, II*1:00–5:00 p.m. *AMS Special Session on Dynamics and Regularity of PDEs, III*1:00–5:00 p.m. *AMS Special Session on Exploring Spatial Ecology via Reaction Diffusion Models: New Insights and Solutions, III*1:00–5:00 p.m. *AMS Special Session on Geometric Analysis in Several Complex Variables, III*1:00–5:00 p.m. *AMS Special Session on Geometry and Symmetry in Differential Equations, Control, and Applications, III*1:00–5:00 p.m. *AMS Special Session on History of Mathematics, IV*1:00–5:00 p.m. *AMS Special Session on Informal Learning, Identity, and Attitudes in Mathematics, III*1:00–5:00 p.m. *AMS Special Session on Mathematics and the Arts, IV*1:00–5:00 p.m. *AMS Special Session on Metric Geometry and Topology, III*1:00–5:00 p.m. *AMS Special Session on Mock Modular Forms, Physics, and Applications, IV*1:00–5:00 p.m. *AMS Special Session on Modular Tensor Categories and TQFTs beyond the Finite and Semisimple, III*1:00–5:00 p.m. *AMS Special Session on Navigating the Benefits and Challenges of Mentoring Students in Data-Driven Undergraduate Research Projects, II*1:00–5:00 p.m. *AMS Special Session on New Faces in Operator Theory and Function Theory, III*

- 1:00–5:00 p.m. *AMS Special Session on Partition Theory and q -Series, III*
- 1:00–5:00 p.m. *AMS Special Session on Polymath Jr REU Student Research, II*
- 1:00–5:00 p.m. *AMS Special Session on Principles, Spatial Reasoning, and Science in First-Year Calculus, II*
- 1:00–5:00 p.m. *AMS Special Session on Recent Advances in Stochastic Differential Equation Theory and its Applications in Modeling Biological Systems, III*
- 1:00–5:00 p.m. *AMS Special Session on Recent Developments in Commutative Algebra, II*
- 1:00–5:00 p.m. *AMS Special Session on Recent Developments in Numerical Methods for PDEs and Applications, II*
- 1:00–5:00 p.m. *AMS-SIAM Special Session on Research in Mathematics by Undergraduates and Students in Post-Baccalaureate Programs, IV*
- 1:00–5:00 p.m. *AMS Special Session on Serious Recreational Mathematics, IV*
- 1:00–5:00 p.m. *AMS Special Session on Spectral Methods in Quantum Systems, III*
- 1:00–5:00 p.m. *AMS Special Session on The Mathematics of Decisions, Elections, and Games, III*
- 1:00–5:00 p.m. *AMS Special Session on Undergraduate Research Activities in Mathematical and Computational Biology, IV*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 1:00–5:00 p.m. *AWM Special Session on Mathematics in the Literary Arts and Pedagogy in Creative Settings*
- ILAS (INTERNATIONAL LINEAR ALGEBRA SOCIETY)**
- 1:00–5:00 p.m. *ILAS Special Session on Graphs and Matrices*
- 1:00–5:00 p.m. *ILAS Special Session on Spectral and combinatorial problems for nonnegative matrices and their generalizations*
- SIAM (SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**
- 1:00–6:00 p.m. *SIAM Minisymposium on Current Advances in Modeling and Simulation to Uncover the Complexity of Disease Dynamics*
- AWM (ASSOCIATION FOR WOMEN IN MATHEMATICS)**
- 1:30–4:30 p.m. *AWM Workshop: Women in Operator Theory*
- JMM (JOINT MATHEMATICS MEETINGS)**
- 2:00–3:30 p.m. *JMM Panel: Cal-Bridge: Building Bridges and Diversifying Mathematics*
- INVITED ADDRESS**
- 3:30–4:35 p.m. *AMS-MAA-SIAM Gerald and Judith Porter Public Lecture*