Mathematical Sciences Research Institutes

The Division of Mathematical Sciences (DMS) supports a portfolio of research institutes that conduct wide-ranging programs aimed to advance research in the mathematical sciences, increase the impact of the mathematical sciences in other disciplines, and expand the talent base engaged in mathematical research in the United States. More information about the DMS-supported research institutes can be found at the National Science Foundation Mathematical Sciences Institutes web site.

Upcoming Activities

October - December 2021

American Institute of Mathematics (AIM)

- The 3Rs of inclusive graduate mathematics programs: Reimagining, recruiting, and realizing potential
  Oct 11 to Oct 15, 2021
- Stability in mirror symmetry
  Oct 25 to Oct 29, 2021
- Spectral graph and hypergraph theory: connections and applications
  Dec 6 to Dec 10, 2021

Institute for Advanced Study (IAS)

- Special Year on h-Principle and Flexibility in Geometry and PDEs
  Sep 1, 2021 to Apr 30, 2022
- Workshop on the h-principle and beyond
  Nov 1 to Nov 5, 2021

Institute for Mathematical and Statistical Innovation (IMSI)

- Distributed Solutions to Complex Societal Problems
  Sep 20 to Dec 17, 2021
  - Opening Workshop: An introduction to the area of distributed solutions
    Oct 4 to Oct 7, 2021
  - Mean-field approaches in Machine Learning and Statistics
    Oct 18 to Oct 21, 2021
  - Aggregate dynamics in models with heterogeneous agents
    Oct 27 to Oct 29, 2021
  - Mean-Field Models for interacting agents
    Nov 1 to Nov 4, 2021
  - Applications of Mean Field Games: from Models to Practice
    Nov 16 to Nov 19, 2021
  - Applications to Financial Engineering
    Dec 6 to Dec 8, 2021
  - Mathematical Advances in Mean Field Games
    Dec 13 to Dec 17, 2021

Institute for Computational and Experimental Research in Mathematics (ICERM)

- Hamiltonian Methods in Dispersive and Wave Evolution Equations
  Sep 8 to Dec 10, 2021
- Generic Behavior of Dispersive Solutions and Wave Turbulence
  Oct 18 to Oct 22, 2021
- Foam Evaluation
  Nov 5 to Nov 7, 2021
- Hamiltonian Methods and Asymptotic Dynamics
  Dec 6 to Dec 10, 2021

Institute for Pure and Applied Mathematics (IPAM)

- Mathematical and Computational Challenges in the Era of Gravitational Wave Astronomy
  Sep 13 to Dec 17, 2021
- Computational Challenges in Multi-Messenger Astrophysics
  Oct 4 to Oct 8, 2021
- Practicum for Undergraduates in Number Theory
  Oct 16 to Oct 17, 2021
- Mathematical and Numerical Aspects of Gravitation
  Oct 25 to Oct 29, 2021
- Green Family Lecture: "From the Possibility to the Certainty of a Supermassive Black Hole" by Dr. Andrea M. Ghez
  Oct 25, 2021
- Source Inference and Parameter Estimation in Gravitational Wave Astronomy
  Nov 15 to Nov 19, 2021
- Big Data in Multi-Messenger Astrophysics
  Nov 29 to Dec 3, 2021

Mathematical Sciences Research Institute (MSRI)

- Universality and Integrability in Random Matrix Theory and Interacting Particle Systems
  Aug 16 to Dec 17, 2021
- Integrable Structures in Random Matrix Theory and Beyond
  Oct 18 to Oct 22, 2021
- Chern-Simons and Other Topological Field Theories
  Nov 16 to Nov 18, 2021
- Blackwell Tapia Conference 2021
  Nov 18 to Nov 20, 2021