

The American Mathematical Society welcomes applicants for the
2018 Mathematics Research Communities



The Mathematics Research Communities program helps early-career mathematicians develop long-lasting cohorts for collaborative research projects in many areas of mathematics.

- Intensive one-week, hands-on research conference in the summer (see the 2018 research topics to the right)
- Special Sessions at the Joint Mathematics Meetings
- Guidance in career building
- Follow-up small-group collaborations
- Longer-term opportunities for collaboration

Over time, the participants are expected to provide feedback about career development and the impact of the MRC program.

The summer conferences of the Mathematics Research Communities will be held at the Whispering Pines Conference Center in West Greenwich, Rhode Island, where participants can enjoy the natural beauty and a collegial atmosphere. Women and underrepresented minorities are especially encouraged to apply. **The application deadline for summer 2018 is February 15, 2018.**

This program is supported by a grant from the National Science Foundation.

Learn more at: www.ams.org/mrc



TOPICS FOR 2018

June 3–9, 2018

Week 1a: The Mathematics of Gravity and Light

Organizers: Charles Keeton (*Rutgers University*)
 Arlie Petters (*Duke University*)
 Marcus Werner (*Kyoto University*)

Week 1b: Harmonic Analysis: New Developments on Oscillatory Integrals

Organizers: Philip T. Gressman (*University of Pennsylvania*)
 Larry Guth (*Massachusetts Institute of Technology*)
 Lillian B. Pierce (*Duke University*)

June 10–16, 2018

Week 2a: Quantum Symmetries: Subfactors and Fusion Categories

Organizers: David Penneys (*The Ohio State University*)
 Julia Plavnik (*Texas A&M University*)
 Noah Snyder (*Indiana University*)

Week 2b: Number Theoretic Methods in Hyperbolic Geometry

Organizers: Benjamin Linowitz (*Oberlin College*)
 David Ben McReynolds (*Purdue University*)
 Matthew Stover (*Temple University*)

June 17–23, 2018

Week 3: Agent-based Modeling in Biological and Social Systems

Organizers: Andrew Bernoff (*Harvey Mudd College*)
 Leah Edelstein-Keshet (*University of British Columbia*)
 Alan Lindsay (*University of Notre Dame*)
 Chad Topaz (*Williams College*)
 Alexandria Volkening (*Mathematical Biosciences Institute at Ohio State*)
 Lori Ziegelmeier (*Macalester College*)