

Mathematics Opportunities

Listings for upcoming math opportunities to appear in Notices may be submitted to notices@ams.org.

AMS Travel Grants for ICM 2018

The American Mathematical Society has applied to the National Science Foundation (NSF) for funds to permit partial travel support for US mathematicians attending the 2018 International Congress of Mathematicians (ICM 2018), August 1–9, 2018, in Rio de Janeiro, Brazil. Subject to the award decision by the NSF, the Society is preparing to administer the selection process. Instructions on how to apply for support will be available on the AMS website at www.ams.org/programs/travel-grants/icm. The application period is **September 1–November 15, 2017**. This travel grants program, if funded, will be administered by the Professional Programs Department, AMS, 201 Charles Street, Providence, RI 02904-2294. You can contact us at prof-serv@ams.org; 800-321-4267, ext. 4096; or 401-455-4096.

This program is open to US mathematicians (those who are currently affiliated with a US institution or affiliated with a US institution at the time of travel). Early-career mathematicians (those within six years of the doctorate), women, and members of US groups underrepresented in mathematics are especially encouraged to apply.

Applications will be evaluated by a panel of mathematical scientists, and application results will be known by late February 2018.

Visit www.ams.org/programs/travelgrants/icm for more details. All information currently available about the ICM 2018 program, organization, and registration procedure is located on the ICM 2018 website, www.icm2018.org/.

—AMS Professional Programs Department

*NSF Conferences and Workshops in the Mathematical Sciences

The National Science Foundation (NSF) supports conferences, workshops, and related events (including seasonal schools and international travel by groups). Proposals for such activities may request funding of any amount and for durations of up to three years. Proposals may be submitted only by universities and colleges or by nonprofit nonacademic institutions and must be submitted to the appropriate disciplinary program in accordance with the lead-time requirements specified on the program web page. For more information, see www.nsf.gov/funding/pgm_summ.jsp?pims_id=11701&org=DMS.

—NSF announcement

News from the Mathematical Sciences Research Institute, Berkeley, California

The Mathematical Sciences Research Institute (MSRI) will hold the following workshops during the spring of 2018.

- *Connections for Women: Enumerative Geometry Beyond Numbers* (January 18–19, 2018). See www.msri.org/workshops/814.
- *Introductory Workshop: Enumerative Geometry Beyond Numbers* (January 22–26, 2018). See www.msri.org/workshops/815.
- *Connections for Women: Group Representation Theory and Applications* (February 1–2, 2018). See www.msri.org/workshops/817.

**The most up-to-date listing of NSF funding opportunities from the Division of Mathematical Sciences can be found online at: www.nsf.gov/dms and for the Directorate of Education and Human Resources at www.nsf.gov/dir/index.jsp?org=ehr. To receive periodic updates, subscribe to the DMSNEWS listserv by following the directions at www.nsf.gov/mps/dms/about.jsp.*

- *Introductory Workshop: Group Representation Theory and Applications* (February 5–9, 2018). See www.msri.org/workshops/818.
- *Critical Issues in Mathematics Education 2018: Access to Mathematics by Opening Doors for Students Currently Excluded from Mathematics* (February 21–23, 2018). See www.msri.org/workshops/877.
- *Hot Topics: The Homological Conjectures: Resolved!* (March 12–16, 2018). See www.msri.org/workshops/842.
- *Structures in Enumerative Geometry* (March 19–23, 2018). See www.msri.org/workshops/816.
- *Representations of Finite and Algebraic Groups* (April 19–23, 2018). See www.msri.org/workshops/820.

Established researchers, postdoctoral fellows, and graduate students are invited to apply for funding. MSRI actively seeks to achieve diversity in its workshops, and a strong effort is made to remove barriers that hinder equal opportunity, particularly for those groups that have been historically underrepresented in the mathematical sciences.

MSRI has a resource to assist visitors with finding child care in Berkeley. For more information, please contact Sanjani Varkey at sanjani@msri.org.

—MSRI announcement

Organizing the 2019 AMS Short Course

The AMS Short Course Subcommittee invites preliminary proposals for the next Short Course, to be held January 14–15, 2019, preceding the Joint Mathematics Meetings in Baltimore, Maryland. Designed to provide a rich introduction to an emergent area of applied mathematics, the Short Course provides participants from a wide array of mathematical backgrounds with an opportunity for professional development, continuing mathematical education, or an introduction to a new area of inquiry. Traditionally, the format has been a sequence of lectures, and a preliminary proposal has contained synopses. However, the Subcommittee is open to other approaches that have potential to engage participants in person as well as remotely in the proposed topic. The Short Course presents an opportunity for the organizers to bring their mathematical topic to an audience of newcomers with a great deal of curiosity, willingness to discover, and potential to dig deeper. Proceedings of the Short Course typically appear in the AMS series *Proceedings of Symposia in Applied Mathematics*.

For fuller information, visit www.ams.org/meetings/short-courses/2019call, and contact aed-mps@ams.org with questions and preliminary proposals. **Submissions should be made by December 18, 2017.**

—AMS Meetings and Professional Services

Mathematics Research Communities 2018

The AMS invites mathematicians just beginning their research careers—those who are close to finishing their doctorates or have recently finished—to become part of Mathematics Research Communities (MRC), a unique and successful program that builds social and collaborative networks through which individuals inspire and sustain each other in their work. Women and underrepresented minorities are especially encouraged to participate. Partially supported by the National Science Foundation, the structured program engages and guides all participants as they start their careers. Those accepted into the program will receive support for the summer conference and will be partially supported for their participation in the Joint Mathematics Meetings that follow in January 2019. The 2018 MRC Summer Conferences are held at the Whispering Pines Conference Center, West Greenwich, Rhode Island, where participants can enjoy the natural beauty and a collegial atmosphere. The program also includes discussion networks by research topic and a longitudinal study of early-career mathematicians.

Five conferences will be held in summer 2018 on the following topics:

Week 1a, June 3–9, 2018: The Mathematics of Gravity and Light

Organizers:

Charles Keeton (Rutgers University)

Arlie Petters (Duke University)

Marcus Werner (Kyoto University)

Week 1b, June 3–9, 2018: 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)

Week 2a: June 10–16, 2018: 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: June 10–16, 2018: Number Theoretic Methods in Hyperbolic Geometry

Organizers:

Benjamin Linowitz (Oberlin College)

David Ben McReynolds (Purdue University)

Matthew Stover (Temple University)

NEWS

Week 3, June 17–23, 2018: 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)

Individuals who are one to two years prior to receiving their PhDs or one to five years after receiving their PhDs are welcome to apply. Most of those supported by NSF funds to participate in the MRC program will be US-based, that is, employed by or a full-time student at a US institution at the time of the MRC summer conference. However, the terms of the grant allow for a limited number of individuals who are not US-based. All participants are expected to be active in the full MRC program. Detailed instructions are available at www.ams.org/programs/research-communities/mrc-18. Applications are due no later than **February 15, 2018**.

For further information on Mathematics Research Communities, visit the website www.ams.org/mrc or contact Steven Ferrucci at ams-mrc@ams.org.

—Steven Ferrucci
AMS Senior Program Coordinator



MATHEMATICAL SCIENCE OPPORTUNITIES FROM THE AMS

The AMS Online Opportunities Page provides another avenue for the math community to **Announce and Browse:**

- **Calls for fellowship appointments**
- **Prize and award nominations**
- **Grant applications**
- **Meeting and workshop proposals**

search now!

www.ams.org/opportunities

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