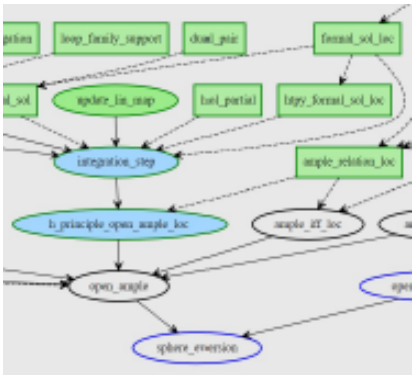
institute for pure & applied mathematics

Machine Assisted Proofs

February 13 - 17, 2023



Scientific Overview

The goal of this workshop is to bring mathematicians and computer scientists together to explore potential applications of these technologies to the domain of pure mathematics, building upon the exciting recent developments in this subject.
The workshop aims to have equal representation from both the computer science and pure mathematics communities and to encourage constructive dialogue. On the computer science side, we intend to attract experts who have developed the technologies enumerated above and who have shown an interest in mathematical applications. On the mathematical side, we hope to attract researchers from a diversity of fields who are intrigued by the possibility of using the new technologies in their work and are open to exploration. The meeting will promote an exchange of ideas, and we hope to leave ample time for open-ended conversation and collaborative discussion.

This workshop will include a poster session; a request for posters will be sent to registered Participants in advance of the workshop.

Participation

Additional information about this workshop including links to register and to apply for funding, can be found on the webpage listed below. Encouraging the careers of women and minority mathematicians and scientists is an important component of IPAM's mission, and we welcome their applications.

Organizers

Erika Abraham (RWTH Aachen University), **Jeremy Avigad** (Carnegie Mellon University), **Kevin Buzzard** (Imperial College), **Jordan Ellenberg** (University of Wisconsin-Madison), **Tim Gowers** (University of Cambridge), **Marijn Heule** (Carnegie Mellon University), **Terence Tao** (UCLA).

Speakers

Benedikt Ahrens (Technische Universiteit Delft), **Anne Baanen** (Vrije Universiteit), **Andrej Bauer** (University of Ljubljana), **Johan Commelin** (Albert-Ludwigs-Universität Freiburg), **James Davenport** (University of Bath), **Leonardo de Moura** (Microsoft Research), **Pascal Fontaine** (Institut National de Recherche en Informatique Automatique (INRIA), **Johnathan Hanke** (Princeton University), **John Harrison** (Amazon), **Laura Kovacs** (Technische Universität Wien), **Marc Lackenby** (University of Oxford), **Heather Macbeth** (Fordham University), **Assia Mahboubi** (Institut National de Recherche en Informatique Automatique), **Patrick Massot** (Université Paris-Sud), **Micaela Mayero** (Galilee Institute - Paris Nord University), **Sophie Morel** (École Normale Supérieure de Lyon), **Aina Niemetz** (Stanford University), **Emily Riehl** (Johns Hopkins University), **Jason Rute** (IBM), **Akshay Venkatesh** (Institute for Advanced Study), **Adam Wagner** (Tel Aviv University), **Geordie Williamson** (University of Sydney), **Tony Wu** (Stanford University) **Bohua Zhan** (Chinese Academy of Sciences).

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For more information, visit the program webpage:
www.ipam.ucla.edu/MAP2023