International Conference

ULTRAMATH 2020

Ultrafilters and Ultraproducts Across Mathematics and Related Topics

Pisa, May 31 - June 6, 2020

Scientific Committee:

Vitaly Bergelson (Ohio State University, USA)
Andreas Blass (University of Michigan, USA)
Mauro Di Nasso (Università di Pisa, Italia)
Renling Jin (College of Charleston, USA)

Organizing Committee:

Mauro Di Nasso (Università di Pisa, Italia) - *chair*
Lorenzo Luperi Baglini (Università di Milano, Italia)

Greater prominence will be given to those results that satisfy (most of) the following conditions:

- The results can be formulated and presented in non-specialist terms, and be in principle understandable by any practicing mathematician
- The usage of ultrafilters/ultraproducts is important (or even essential) in obtaining these results
- The results connect different areas of mathematics
- The results reveal new facets of known important topics

The covered topics include (but are not limited to):

- Additive and Combinatorial Number Theory
- Combinatorics and Ramsey Theory
- Algebra and Geometry
- General Topology
- Measure Theory
- Ergodic Theory and Dynamics
- Functional Analysis and Metric Spaces
- Nonstandard Analysis and Model Theory
- Generalized Spaces and Differential Equations
- Set Theory

Invited Speakers include:

- Vieri Benci - Università di Pisa, Italia
- Vitaly Bergelson - Ohio State University, USA
- Andreas Blass - University of Michigan Ann Arbor, USA
- Artem Chernikov - University of California Los Angeles (UCLA), USA
- Natasha Dobrinen - University of Denver, USA
- Cornelia Druțu - University of Oxford, UK
- Victoria Gitman - City University of New York (CUNY), USA
- Isaac Goldbring - University of California Irvine (UCI), USA
- C. Ward Henson - University of Illinois Urbana-Champaign, USA
- Neil Hindman - Howard University, USA
- Michael Hrušák - Universidad Nacional Autónoma, México
- Renling Jin - College of Charleston, USA
- Steven Leth - University of Northern Colorado, USA
- Martino Lupini - Victoria University, New Zealand
- Joel Moreira - University of Warwick, UK
- Jaroslav Nešetřil - Charles University Praha, Czech Republic
- Florian Richter - Northwestern University, USA
- David A. Ross - University of Hawaii, USA
- Sławomir Solecki - Cornell University, USA
- Dona Strauss - University of Hull, UK
- Simon Thomas - Rutgers University, USA
- Stevo Todorcevic - Univ. Toronto, Canada and Univ. Paris Diderot, France

The Conference will take place at the Mathematics Department of the University of Pisa. The schedule will include sessions for plenary talks, invited talks, and contributed talks.

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