

Description

The second Forcing Project Networking Conference (FPNC 2019) is devoted to recent set theory as a bridge between mathematics and philosophy and focuses on the interaction between mathematical and philosophical arguments and views in set theory. Set theory has long been both a mathematical discipline and a program with foundational motivations. It seems that this dual character makes it a natural crossway between mathematics and philosophy, possibly more so than other mathematical disciplines.

Organizing unit

The project “Forcing: Conceptual Change in the Foundations of Mathematics” (2018–2023) aims to analyze, from a historical and philosophical point of view, the development of modern set theory since the introduction of the forcing technique. It brings together methods and research questions from different research areas in the history and philosophy of mathematics to investigate if and how the extensive use of the forcing method brought about a conceptual change in set theory; and in which ways this may influence the philosophy of set theory and, finally, the foundations of mathematics.

More information is available at
– forcing-project.com

Social events venues

Conference dinner

Costanzer Wirtshaus, Spanierstraße 3

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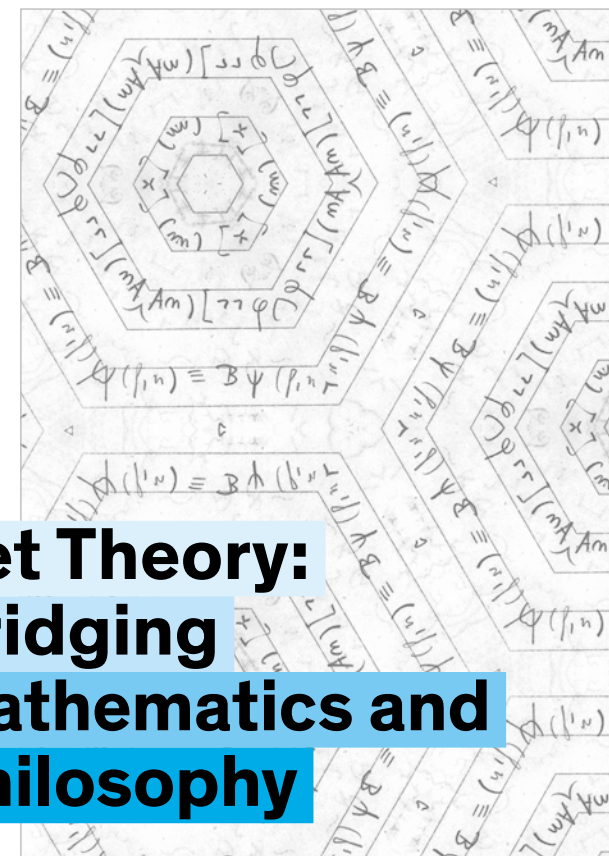


Set Theory: Bridging Mathematics and Philosophy

Second Forcing Project Networking Conference (FPNC 2019)

July 29–31, 2019,
University of Konstanz, V 1001

– fpnc2019.forcing-project.com



Conference Program

All talks will take place in Room V 1001 (Senatssaal).

Monday, July 29th

- 09:30–10:00 **Registration and welcome reception**
- 10:00–11:00 **Invited talk: “Boolean-valued sets as arbitrary objects”**
Leon Horsten · University of Bristol
- 11:00–11:15 Break
- 11:15–12:00 **“Can all things be counted?”**
Chris Scambler · New York University
- 12:05–12:50 **“Concepts and analogy-making in set-theoretic and category-theoretic foundations of mathematics”**
Roland Bolz · Humboldt Universität Berlin
- 12:50–14:00 Lunch
- 14:00–14:45 **“Modal set theory and potential hierarchies”**
Christopher Menzel, Texas A&M University & Guillermo Badia · University of Queensland
- 14:50–15:50 **Invited talk: “Incomparable extensions of ZF”**
Karl-Georg Niebergall · Humboldt Universität Berlin
- 15:50–16:15 Break
- 16:15–17:15 **Invited talk: “On Invariance in foundational practice”**
Juliette Kennedy · University of Helsinki

Tuesday, July 30th

- 10:00–11:00 **Invited talk: “Is set theory pure or applied mathematics? On the ontological power of set theory and its limits”**
Mirna Džamonja · University of East Anglia
- 11:00–11:15 Break
- 11:15–12:15 **Invited talk: “A Predicativist Perspective on Definable Sets of Reals”**
Marianna Antonutti Marfori · MCMP, Munich
- 12:15–13:30 Lunch
- 13:30–14:15 **“Cantor’s Paradise on Skolem’s Earth”**
Mangesh Patwardhan · National Insurance Academy Pune
- 14:20–15:05 **“Categories of amenable embeddings and what canonicity in set theory cannot be”**
Monroe Eskew · University of Vienna
- 15:05–15:30 Break
- 15:30–16:00 **“How does a qualitative interview study inform the philosophy of set theory?”**
Deborah Kant · Universität Konstanz
- 16:00–16:30 **“An inconsistent multiverse?”**
Carolin Antos & Daniel Kuby · Universität Konstanz
- 16:30–17:30 **Invited talk: “Set-theoretic Truth”**
Godehard Link · MCMP, Munich
- 19:30 Conference Dinner

Wednesday, July 31st

- 10:00–11:00 **Invited talk: “Iterability and generalised proof theory”**
Toby Meadows · UC Irvine
- 11:00–11:15 Break
- 11:15–12:00 **“The V-logic multiverse”**
Matteo de Ceglie · University of Salzburg & Claudio Ternullo · KGRC, Vienna
- 12:05–12:50 **“The generic multiverse is not going away”**
Douglas Blue · Harvard University
- 12:50–14:00 Lunch
- 14:00–14:45 **“The singularity of forcing”**
Thomas Tulinski · École Normale Supérieure de Lyon
- 14:50–15:35 **“A semantic approach to independence”**
Giorgio Venturi · Universidade Estadual de Campinas
- 15:35–16:00 Break
- 16:00–17:00 **Invited talk: “Philosophical implications of some recent breakthroughs in set theory”**
Joan Bagaria · University of Barcelona