BRIN MATHEMATICS RESEARCH CENTER

# RANDOM DYNAMICAL SYSTEMS, PDEs AND STOCHASTIC ANALYSIS

## JULY 21, 2025 - JULY 25, 2025

## ABOUT THE WORKSHOP

Recent successes in using random dynamical systems (RDS) to shed light on classical problems in fluid mechanics have shown that there is significant potential for synergy between the field of RDS and the fields of partial differential equations and stochastic analysis. Being at the crossroads of several fields presents a potentially high barrier to entry to the area, especially for junior researchers. The purpose of this workshop is to bring together experts in these fields with graduate students and post-docs to introduce them to the state-of-the-art in this area as well as stimulate discussion among researchers in each field. The format will include two 3-hour mini courses and short and long talks by researchers.

## ORGANIZERS

**Jacob Bedrossian,** UCLA
**Alex Blumenthal, Georgia** Tech
**Sam Punshon-Smith,** Tulane University

## SPEAKERS

**Antonio Agresti,** Sapienza University of Rome
**Peter Baxendale,** University of Southern California
**Alexandra Blessing,** University of Konstanz
**Dennis Chemnitz,** Freie Universitat Berlin
**Robin Chemnitz,** Freie Universitat Berlin
**Bill Cooperman,** ETH Zürich
**Matheus de Castro,** Imperial College London
**Jonathan DeWitt,** Penn State University
**Dmitry Dolgopyat,** University of Maryland
**Maximilian Engel,** Freie Universitat Berlin
**Patrick Flynn,** UCLA
**Gary Froyland,** University of New South Wales
**Lucio Galeati,** University of L'Aquila
**Cecilia Gonzalez-Tokman,** University of Queensland
**Vincent Goverse,** Imperial College London
**Rishab Gvalani,** ETH Zürich
**Kyle Liss,** Duke University
**Jonathan Mattingly,** Duke University
**Isaia Nisoli,** Federal University of Rio de Janeiro
**Anthony Quas,** University of Victoria
**Caroline Wormell,** University of Sydney

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