

Recent developments in disordered systems

Organizers:

Johannes Alt (University of Bonn), Luca Fresta (University of Bonn), Michel Pain (Université de Toulouse)

Venue: Lipschitz lecture hall · Mathematics Center · Endenicher Allee 60 · 53115 Bonn

Disordered systems emerge from physical models by incorporating additional random effects. They also appear as models for complex systems in various contexts, such as computer science or biology. Understanding these models rigorously has been a great challenge for several decades, but the mathematical research in disordered systems and related fields has seen tremendous progress in recent years and benefits from a fruitful interplay of techniques from probability theory, mathematical analysis, combinatorics and mathematical physics. The aim of the school is to present to PhD students and young researchers some of the most fascinating developments in disordered systems and related fields in recent years.

Lecture series by:

- Alice Guionnet (École Normale Supérieure de Lyon)
- Ioan Manolescu (University of Fribourg)
- Eliran Subag (Weizmann Institute of Science, Israel)
- Simone Warzel (Technical University of Munich)

Additional talks by:

- David Belius (UniDistance Suisse)
- Giorgio Cipolloni (Princeton University)
- Laure Dumaz (École Normale Supérieure)
- Vieri Mastropietro (University of Milan)



Call for participation: Participation is free. If you are interested in participating, please fill out the application form: <https://www.hsm.uni-bonn.de/events/hsm-schools/recent-developments-in-disordered-systems-09-13092024/hsm-recent-dev-24-app/>. Successful applicants are selected based on research background, and receive financial support for local expenses. To be considered for this financial support, please submit a CV and letter of intent. To encourage the participation of researchers facing increased financial burden, such as many researchers from developing countries, a small number of fully funded places are available (including support for travel, visa fees etc). You can indicate in the application form, for which type of financial support you would like to be considered. Additional participants are welcome to join at their own cost.

The deadline for applications to participate in the workshop/conference is March 31, 2024 (CET).