



Particles in Flow

Organizers:

Dimitri Cobb (University of Bonn), David Gérard-Varet (Université Paris Cité), Amina Mecherbet (Université Paris Cité), Richard Schubert (University of Bonn)

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

Suspensions are ubiquitous in nature and engineering; they appear in climate science, blood, bacterial life, dust, paints, and many other areas. The theory of suspensions has seen magnificent development over the past few years.

With this Hausdorff School, we aim to familiarize attendees with concepts and recent results surrounding this topic. This includes, in particular, the fields of mathematical fluid mechanics, (fluid-)kinetic equations, and mean-field and hydrodynamic limits, along with their connections. The school offers a unique opportunity for PhD students

Lecture Series by:

- Anne-Laure Dalibard (Sorbonne Université, Paris)
- Pierre-Emmanuel Jabin (Pennsylvania State University)
- Aline Lefebvre-Lepot (CNRS - ENS Paris Saclay, Gif-sur-Yvette)

Additional talks by:

- Francisco Gancedo (Universidad de Sevilla)
- Matthieu Hillairet (Université de Montpellier)
- Mikaela Iacobelli (ETH Zurich)
- Ayman Moussa (Sorbonne Université, Paris)



Call for participation: Participation is free. If you are interested in participating, please fill out the application form: <https://math-events.uni-bonn.de/event/63/>. Successful applicants are selected based on research background. To be considered, please submit a CV and research overview. To encourage the participation of researchers facing increased financial burden, such as many researchers from developing countries, a small number of funded places are available (including support for travel and/or accommodation). 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 school is January 27, 2025 (CET).