



Recent Advances in Quantum and Statistical Mechanics

Organizers:

Christian Brennecke (HCM Bonn), Serena Cenatiempo (GSSI), Marco Falconi (PoliMi)

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

This school introduces PhD students and young researchers to some of the recent developments in mathematical physics, with an emphasis on many-body problems, quantum mechanics, and quantum field theory. In recent years, new analytical and probabilistic methods have been developed in these areas, allowing the mathematical physics community to advance in the understanding of many-particle and field-particle systems. The school aims at presenting such methods, and at creating an environment for the exchange of ideas among researchers with different mathematical background and research focus.

Lecture series by:

- Fumio Hiroshima (Kyushu University)
- Antti Knowles (University of Geneva)
- Sylvia Serfaty (Courant Institute, NYU)

Additional talks by:

- Margherita Disertori (University of Bonn)
- Alessandro Giuliani (Roma Tre University)
- Chiara Saffirio (University of Basel)
- Jacob Schach Møller (Aarhus University)
- Benjamin Schlein (University of Zurich)
- Amanda Young (Technical University of Munich)



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/hausdorff-schools/recentadvances2023/matphys-2023-app/>. Successful applicants are selected based on research background. Limited financial support for PhD students and young researchers is available. To encourage the participation of researchers facing increased financial burden, such as many researchers from developing countries, a small number of fully funded places is available (including support for travel, visa fees etc). Additional financial support for researchers travelling with young children can be provided. Please indicate in the application form (under "Comments") for which type of financial support you would like to be considered. The picture above was generated by OpenAI DALL-E.

The deadline for applications to participate in the workshop/conference is February 28, 2023 (CET).