



Korrelationstage 2021

VIRTUAL

Virtual Workshop 15 - 20 April 2021

Many fascinating phenomena in quantum matter, ranging from exotic phases to unusual behavior out of thermal equilibrium, are rooted in the strong interactions between its elementary constituents. They are interesting from a fundamental point of view and at the same time extremely challenging to study.

The Korrelationstage have traditionally aimed at capturing the new developments in this active field, and focusing on the role of those junior scientists who drive them. In their present incarnation, the Korrelationstage focus on collective phenomena in condensed matter physics defined broadly, incorporating many recent developments in the physics of ultracold atoms.

Among the many problems thrown up by the pandemic is that young scientists have had few opportunities to integrate themselves into the community. This virtual event specifically aims at redressing this, by providing a platform for presenting their work, meeting colleagues, and becoming known in the community.

The format of the meeting will contain overview presentations, as well as research talks and poster sessions.

Research talks are to be presented exclusively by junior (non-tenured) scientists, but the poster presentations are solicited from everybody. Research talks will be selected from the submitted contributions.

We also plan to use the versatility of virtual conference platforms, specifically for audiovisual contributions at the poster sessions.

Topics

- Quantum magnetism
- Non-equilibrium phenomena
- Ultracold atomic gases
- Tailored, e.g. Moire, materials
- Topological phenomena and correlations
- Numerical methods and machine learning approaches

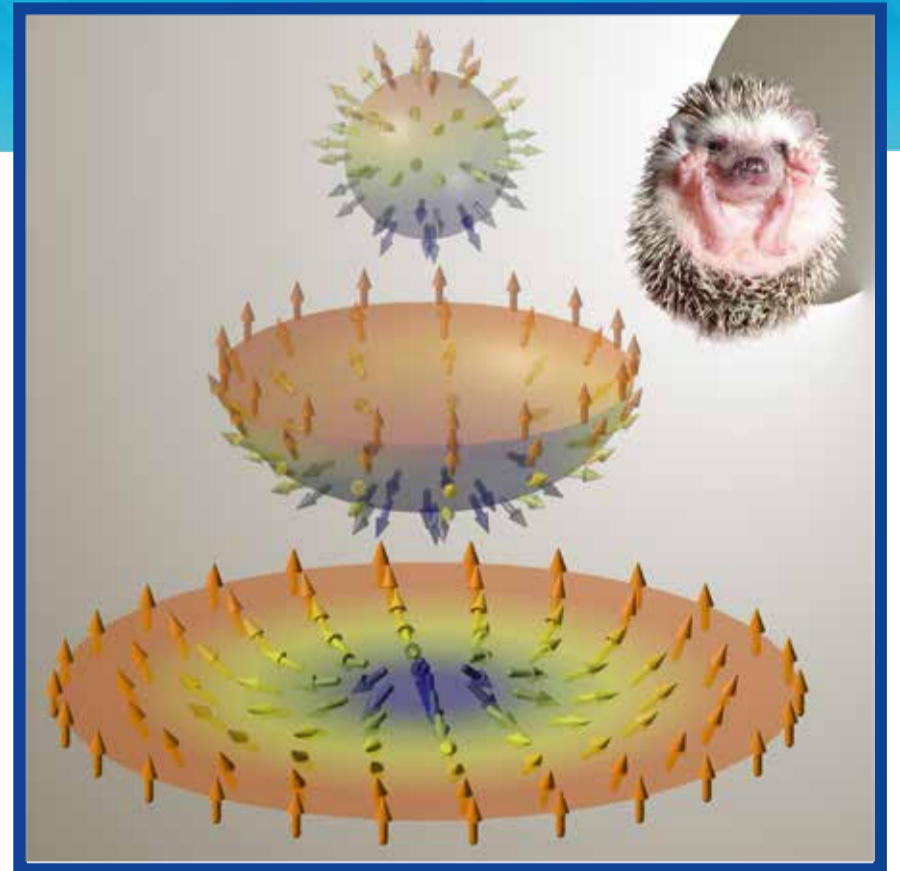
Applications and talk/poster submissions are welcome and should be made via the application form on the event's web page, **no later than 15 March 2021**.

The number of attendees is limited.
There is no registration fee for the virtual workshop.

For further information please contact:

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Overview lecturers

Claire Donnelly
(University of Birmingham, UK)

Sean Hartnoll
(Stanford University, US)

Hannah Price
(University of Cambridge, UK)

Brad Ramshaw
(Cornell University, US)

Scientific coordinators

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