

# Bad Honnef Physics School

Supported by the Wilhelm and Else Heraeus-Foundation

## Ultracold Atoms and Molecules

August 10 - 16, 2025, Physikzentrum Bad Honnef, Germany

### Organised by

**Axel Pelster (RPTU Kaiserslautern-Landau, Germany)**  
**and Carlos A. R. Sá de Melo (Georgia Tech, Atlanta, USA)**

Since the first Bose-Einstein condensate of ultracold atomic gases was realized experimentally in 1995, the emerging research field of ultracold quantum gases has been extremely active and has expanded in many different directions. In particular, new areas of research are forming at the borderlines between atomic and molecular physics, quantum optics, and condensed matter physics.

The main goal of the school is to provide a solid introduction to the field of ultracold quantum gases, which will be delivered by internationally recognized experts of the field.

### Speakers and topics:

#### Dipolar Systems:

- Kang-Kuen Ni (Harvard, USA)
- Luis Santos (Hannover, Germany)

#### BEC-BCS Crossover:

- Chris Vale (Melbourne, Australia)
- Hadrien Kurkjian (Toulouse, France)

#### Topology:

- Sylvain Nascimbene (Paris, France)
- Patrick Öhberg (Edinburgh, UK)

#### Quantum Fluids of Light:

- David Snoke (Pittsburgh, USA)
- Michiel Wouters (Antwerp, Belgium)

#### Cavity Optomechanics:

- Uros Delic (Vienna, Austria)
- Clara Wanjura (Erlangen-Nürnberg, Germany)

#### Fees:

Covering full board and lodging at the Physikzentrum Bad Honnef  
200 € (for DPG members 100 €).

Application & more information: [www.pbh.de](http://www.pbh.de)



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