

# Bad Honnef Physics School

Supported by the Wilhelm and Else Heraeus-Foundation

## Frontiers of Quantum Mechanics

February 3 - 8, 2024 Physikzentrum Bad Honnef, Germany

Organised by

Markus Arndt (Universität Wien) & Claus Lämmerzahl (Universität Bremen)

**For PhD and Master Students**

### Topics and Lecturers

**Postulates of Quantum Mechanics, measurement process, uncertainty relation, entanglement, quantum cryptography**

Claus Lämmerzahl (Bremen)

**High precision time and frequency measurement and its applications**

Christian Lisdat (Braunschweig)

**Precision measurements at the quantum limit**

Michèle Heurs (Hannover)

**Quantum Gases and Rydberg Molecules**

Tilman Pfau (Stuttgart)

**Quantum Imaging and Sensing**

Markus Gräfe (Darmstadt)

**Quantum control of mechanical objects using superconducting circuits**

Yiwen Chu (Zürich)

**Testing for gravity in quantum systems by optomechanics: Ideas & experimental challenges**

Hendrik Ulbricht (Southampton)

**Quantum Reference Frames and Quantum Causality**

Peter Hore (Oxford)

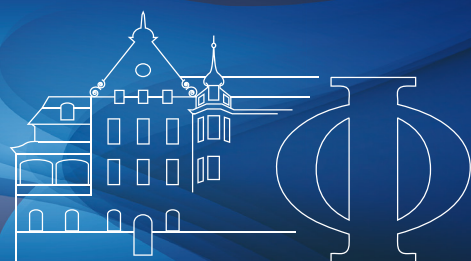
**Testing for gravity in quantum systems by optomechanics: Ideas & experimental challenges**

Caslav Brukner (Vienna)

**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)



Physikzentrum Bad Honnef

Deutsche Physikalische Gesellschaft



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