

EINLADUNG zum  SEMINAR

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## Quantum Optical Control of Levitated Solids: a novel probe for the gravity-quantum interface

The increasing level of control over motional quantum states of massive, solid-state mechanical devices opens the door to an hitherto unexplored parameter regime of macroscopic quantum physics. I will report on our recent progress towards controlling levitated solids in the quantum regime. I will discuss the prospects of using these systems for fundamental tests of physics, including the interface between quantum and gravitational physics.

[Dienstag, 8. Oktober 2019, 17:00 Uhr](#)

Stefan-Meyer-Institut für subatomare Physik  
1090 Wien, Boltzmannngasse 3  
2. Stock, Seminarraum 2.08