

Joint Quantum Sciences Seminar

Wednesday, September 11, 4:30 pm
Jefferson 250

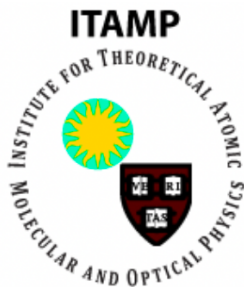
Prof. Markus Aspelmeyer

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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.

Student Presentation will begin at 4:00
Guest Presentation will begin at 4:30 PM
Refreshments will be provided



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