

The Vienna Doctoral Programme on Complex Quantum Systems
invites you to a

Seminar Talk

by

Sebastian Huber

ETH Zurich

A quantized quadrupole insulator in a mechanical metamaterial

The elastic properties of materials are determined by a few material constants such as the Young's modulus. Using super-structures one can effectively change these "constants". In this way we obtain functionalities such as wave-guiding, acoustic lensing or programmable failure. I will show how topological band theory, known from the description of electrons in solids, provides us with a powerful design-principle for such mechanical metamaterials.

**Monday, 4 December 2017,
16:30h get-together with coffee and snacks!**

Lise Meitner Hörsaal, Strudlhofgasse 4, 1st floor, Vienna

The seminar talk will be preceded by a CoQuS Student talk at 17:00h
by

Ralf Riedinger

University of Vienna

Across-chip entanglement of nanomechanical oscillators

Hosted by: Peter Rabl