



**UNIVERSITÄT
BIELEFELD**

Faculty of Physics

Seminar

Condensed Matter Theory

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FZ Jülich

Quantum computing and quantum annealing in a nutshell

In this talk I will give a broad introduction to quantum computing and quantum annealing, starting with the definition of a quantum bit (qubit). I will explain the working principles of quantum annealing as well as gate-based quantum computers and describe the programming of such devices. Additionally, I will present some of our work at JSC regarding simulations of quantum computers and applications on the D-Wave quantum annealer.

Thursday, 04 February 2021, 1415 hrs CET

Zoom Konferenzschaltung— Please contact Jürgen Schnack
(jschnack@uni-bielefeld.de) for details regarding access

→ www.physik.uni-bielefeld.de