

The **Vienna Center for Quantum Science and Technology (VCQ)**
invites you to a

COLLOQUIUM TALK

by

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Quantum Information and Quantum Many-Body Systems

Quantum Information and Quantum Many-Body Systems share a common theme: The study of the rich collective phenomena which arise from the complex quantum correlations - entanglement - which build up between the constituents of the system. This covers exotic phases of matter just as much as the ability of a quantum computer - itself a system of many qubits - to carry out complex computational tasks. In my presentation, I will highlight cases where these two fields fruitfully interplay: How insights from entanglement theory provide us with novel tools to probe quantum many-body systems, and how quantum many-body problems yield ways to both verify and use near-term quantum devices.

Monday, 13th December 2021, 17:30

ONLINE via ZOOM

Host: Peter Rabl