



Physical Sciences Seminar

Open quantum manybody systems

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Host: Johannes Fink

This seminar will present recent advances on the manybody physics of open quantum systems, an emerging field that is being explored in condensed matter, atomic and optical platforms as well as superconducting quantum circuits. A pedagogical introduction will outline the state-of-the-art theoretical framework and methods, focusing on the competition between strong interactions and dissipation/decoherence. We will review unconventional aspects of dissipative phase transitions and reservoir engineering protocols for the realization of non-trivial phases. We will show how the concepts developed in this context can also be applied to the field of quantum information with noisy intermediate-scale quantum devices.

Tuesday, December 7, 2021 01:30pm - 02:30pm

IST Austria Campus Heinzl Seminar Room / Office Bldg West (I21.EG.101) & Online
via Zoom



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.