

Out-of-equilibrium and collective dynamics of quantum many-body systems

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ETH Hönggerberg

In recent years, experimental progress on quantum simulations has stimulated a strong theoretical interest in the non-equilibrium dynamics of quantum many-body systems. The collective character of these systems gives rise to novel non-equilibrium phenomena, such as pre- or non-thermal phases of matter and forms of dynamical criticality, without classical counterparts. The goal of this workshop is to bridge the various theoretical perspectives from different research communities, including integrable systems, quantum information, hydrodynamics, cold-atom theory, and mathematical physics, and to nurture inter-communal and inter-disciplinary collaborations.

Registration Until May 31, 2022

Organizers N. Defenu, G. M. Graf, and P. Moosavi

Speakers include

Denis Bernard
Bruno Bertini
Pasquale Calabrese
Adolfo del Campo
Olalla Castro-Alvaredo
Benjamin Doyon
Thierry Giamarchi
Michael Kastner
Christian Maes
Jamir Marino
Vieri Mastropietro
Aditi Mitra
Tomaž Prosen
Paola Ruggiero
Shinsei Ryu
Lea Santos
Tomohiro Sasamoto
Imke Schneider
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Spyros Sotiriadis
Gábor Takács



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