



## Seminar/Talk

# Quantum Seminar with Marco Schiro

**Marco Schiro**

CNRS

Host: Maksym Serbyn

A number of experimental platforms for quantum simulations, from ultra cold atoms to Rydberg and circuit QED arrays, can be modelled as open Markovian quantum many body systems, where coherent (Hamiltonian) evolution competes with dissipative processes due to external environments or stochastic measurements. Out of this competition a variety of non-trivial stationary states and dynamical behaviour emerge and novel critical phenomena arise, which are unique to this open setting. In this talk I will review recent progress in this field and present our results on prototype many-body models for open Markovian systems, displaying genuine nonequilibrium effects such as finite-frequency criticality and breaking of time-translational symmetry (aka dissipative time-crystals), quantum multistability or measurement-induced entanglement transitions. Join Zoom Meeting <https://istaustria.zoom.us/j/98723201991?pwd=TjVCa0lSc3hhK2RXbllzQVdZalBzQT09> Meeting ID: 987 2320 1991 Passcode: 472616

**Friday, March 26, 2021 11:00am - 12:00pm**

via Zoom



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.