FACULTY OF NUCLEAR SCIENCES AND PHYSICAL ENGINEERING CTU IN PRAGUE

CAAS

CENTRE OF ADVANCED APPLIED SCIENCES

Contribution ID: **12**   Type: **Talk**

Fermionic walkers driven out of equilibrium

Monday, 23 May 2022 15:30 (1 hour)

We consider a discrete-time non-Hamiltonian dynamics of a quantum system consisting of a finite sample locally coupled to several infinite reservoirs of fermions with a translation symmetry. In this setup, we compute the asymptotic state, fluxes of fermions into the different reservoirs, as well as the entropy production rate of the dynamics.
This is joint work with S. Andréys and R. Raquépas.

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Session Classification: Talk