

OpenQMBP2023: New perspectives in the out-of-equilibrium dynamics of
open many-body quantum systems



ID de Contribution: 16

Type: Non spécifié

Diffusion and subdiffusion in the disordered quantum and classical Heisenberg spin chains

mardi 20 juin 2023 14:00 (20 minutes)

I will present some work on disordered Heisenberg model on a chain which shows that, depending on the strength of the disorder, both the classical and quantum model have a transition from diffusive to subdiffusive transport.

Based on:

AJ McRoberts, F Balducci, R Moessner, A Scardicchio
arXiv preprint arXiv:2304.05423

IV Protopopov, RK Panda, T Parolini, A Scardicchio, E Demler, DA Abanin
Physical Review X 10 (1), 011025

Orateur: SCARDICCHIO, Antonello

Classification de Session: Quantum Trajectories and Measurement Induced Phase Transitions