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Thermalisation and Quantum many body scars in Lattice Gauge Theories

Thursday, 21 December 2023 14:15 (30 minutes)

In this talk, I will overview recent advances in the study of the Eigenstate Thermalisation Hypothesis (ETH) in the contest of quantum simulation of Lattice gauge theories. Motivated by recent experiment in col atoms quantum simulators, I will present the concept of quantum many body scars and elucidate the structure and properties of a class of anomalous high-energy states of matter-free U(1) quantum link gauge theory Hamiltonians.

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ics