

Information Lattice picture for the Fisher-Information indicators

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1. Introduction

2. Information Lattice

Building on the works in [Bardarson2022TimeEvolutionSciPostPhys] The *Information Lattice* as a concept to systematically analyze the information content and entanglement structure of a quantum many-body state was first introduced by Artiago et. al. in [Artiago2024EfficientLargePRXQuantum], and further developed as a tool for dynamics, charecterisation of loclisation, rate of information scrambling, criticality of the localisation-scrambling transition, and quench dynamics respectively in [Artiago2024EfficientLaArtiago2024UltraslowGrowthPhysRevLett, Artiago2025UniversalCharacterizationPhysRevLett, Artiago2025LocalInformationPhysRevA]. Here for the sake of completeness, we quote the construction of information lattice and some properties possibly useful to us from the aforementioned works.

3. Insights from Information Lattice calculations

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