Contribution ID: **25** Type: **not specified**

Krylov complexity of free and interacting scalar QFTs in the continuum limit

Thursday, 8 December 2022 16:20 (20 minutes)

Krylov complexity is a measure of operator growth that is considered to capture quantum chaos in lattice systems. We study the Krylov complexity and Lanczos coefficients of free scalar theories and their perturbative theories in the continuum limit. In particular, we discuss the effects of mass, hard UV cutoff, thermal mass, and perturbative interactions.

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Session Classification: Parallel session B