## On Phases Of Melonic Quantum Mechanics (arXiv:1903.06633)

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## Abstract

In this talk I will discuss two melonic quantum mechanical systems, each of which can be formulated either as a tensor or a disordered model. Being inspired by the Sachdev-Ye-Kitaev model, the non-trivial IR behavior of their conformal phase bears relation to black-hole physics and nAdS2 / nCFT1 holography. I will present the techniques used to construct the phase diagrams, study both euclidean and real-time physics, and characterize chaos through Lyapunov exponents. Special attention will be given to a new low-energy ansatz, generalizing the one used in the literature for SYK and related models, spontaneously breaking SL(2,R) symmetry without creating a mass gap.

## Seminario

**Giovedì 28 novembre 2019 Aula Tartaglia, ore 14.30** Via Trieste 17 - Brescia

