

# Conditions for existence of islands of entanglement

In the last few years there has been considerable interest in the use of islands of entanglement to explain the recover of information during black hole evaporation. Many toy models for these phenomena use two-dimensional JT gravity, which should be dual to a one-dimensional theory with SYK type features. In this talk we will explore the emergence of islands in higher dimensions, analysing the necessary conditions for the existence of an island.

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