



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

EHU QC

EHU Quantum Center

Theoretical Physics Seminar Series

Driving wormholes out of equilibrium

Javier Mas

IGFAE, Universidade de Santiago de Compostela

Abstract: In 2 dimensions, holographic duality gives the possibility of studying quantum gravity by examining the dual SYK theory. A particularly capturing model is dual to an eternal wormhole. The large N limit is exactly solvable, and exhibits revival phenomena, dual to the back and forth traversing of the wormhole. At finite N the predicted traversability leads to circuit teleportation protocols that are amenable to NISQ computers. Both at large N and at finite N I will review the ongoing work and progress of the string theory group at the IGFAE.

Prof. A. Chamorro Seminar Room, Theoretical Physics Seminar Room

Wednesday, Nov. 29th, 2023

Time: 11:40 am