Massachusetts Institute of Technology
Department of Physics

Condensed Matter Theory Seminar

"Late time random matrix behavior in SYK: a tactical retreat from the black hole information problem"

Douglas Stanford, Institute for Advanced Study

Abstract: In finite entropy systems, real-time partition functions do not decay to zero at late time. Deriving this non-decaying behavior in a large N collective field description is a challenge closely related to the black hole information problem. I will describe a candidate explanation at varying levels of precision for a variant of the SYK model, for the SYK model itself, and for 2d gravity. Work in progress with Saad and Shenker.

**12:00pm noon
Tuesday, May 8, 2018
Duboc Room (4-331)**

Host: Senthil Todadri