



ICTS String Seminar

Title: Lessons from holography for open quantum systems

Speaker: Mukund Rangamani (UC Davis USA)

Date: Thursday, November 10, 2021

Time : 04:00 pm (IST)

Abstract: We describe general lessons one can glean about the effective dynamics of open

quantum systems using holography. Specifically, we will argue that using holographic CFTs to provide thermal environments is a useful way to extract the broad physical principles. This turns out to be especially useful when the probe system long-lived gapless modes of the environment. To illustrate the ideas, we will also motivate a simple class of toy models that captures all the essential physics. As a corollary we also explain analytic properties of real-time thermal

correlation functions.

Venue : Hybrid Mode

Offline: Madhave Lecture Hall

Online: Please click on the below link to join the meeting

https://icts-res-in.zoom.us/j/84622316440?pwd=cGdRVXZLaXZMekNvbkFhK2l2WFpZdzoq

Meeting ID: 846 2231 6440

Passcode: 101022