



ICTS String Seminar

Title : Page curve entanglement dynamics of free fermions: results from numerics and hydrodynamics

Speaker: Abhishek Dhar (ICTS - TIFR, Bengaluru)

Date : Wednesday, 21st February 2024

Time : 03:45 PM (IST)

Abstract : We consider a gas of non-interacting fermions that is released from a box into the vacuum. This provides a simple analytically tractable model that reproduces many features of the Page curve characterizing the evolution of entanglement entropy during evaporation of a black hole. Apart from the entropy we consider several other physical observables and show that generalized hydrodynamics provides a rather surprisingly accurate description of the quantum dynamics.

[Joint work with Madhumita Saha and Manas Kulkarni]

Venue : Offline: Emmy Noether Seminar Room

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

<https://icts-res-in.zoom.us/j/88092766911?pwd=R3ZrVk9yeW96ZmQ4ZG9KRzVhenRKZz09>

Meeting ID: 880 9276 6911

Passcode: 232322