



## **ICTS String Seminar (Online)**

**Title** : On the quantum mechanics of near extremal black holes

**Speaker** : Luca Iliesiu (Stanford University)

**Date** : Wednesday, 12<sup>th</sup> April, 2023

**Time** : 07:00 pm (IST)

**Abstract** : In the past years, quantum effects in the gravitational path integral have given us an accurate picture of how black holes behave close to extremality. In particular, while most modes in this path integral can be treated quadratically, a particular set of modes, the modes of JT gravity, are strongly coupled and lead to large quantum corrections for the low-temperature partition function. I shall review these developments, describing our new understanding of the behavior of both supersymmetric and non-supersymmetric black holes.

**Venue** : **Online:** Please click the below link to join the seminar.

<https://icts-res-in.zoom.us/j/84602673212?pwd=WjdvUVFJcy83bDBpOU5LeGEyazRKdz09>

Meeting ID: 846 0267 3212

Passcode: 609206