

Contributed Talk - Normal Modes of the Stretched Horizon - Pradipta Shankar Pathak, CHEP, IISc

Friday 22 August 2025 11:30 (30 minutes)

Black hole horizons carry entropy but without an explicit state-counting interpretation. There has been considerable progress in understanding its microstructure, but all of them are in BPS-protected/near-BPS cases. Even there, we lack a bulk description of typical microstates (set aside AdS/CFT duality). Understanding bulk microstates seems essential for a satisfying resolution of the information paradox. In this talk, I will present a bottom-up construction to model the bulk microstructure of large AdS black holes far from extremality and supersymmetry. The key ingredients we will need are a Stretched Horizon and excitations on top of it.

Session Chair : Sachindeo Vaidya