



Contribution ID: 1

Type: **not specified**

Juan Maldacena (IAS) - Near extremal black holes and D-branes

Thursday, 5 March 2026 09:00 (1h 15m)

Abstract: We consider the low energy dynamics of a near extremal black hole interacting with massless fields. We work in the approximation where we consider JT gravity plus a two dimensional conformal field that has transparent boundary condition at the boundary of AdS₂ and extends into a flat space with no gravity.

We discuss the extreme low energy regime where we can neglect the Schwarzian action and the dynamics of the boundary gravitational degree of freedom is induced from the the CFT. We discuss the free energy and correlation functions.