

SPEAKER: Gabriel Lopes Cardoso

TITLE: **R^2 corrected AdS_2 holography**

DATE: 9 Jun 2021, 15:00

PLACE:

ABSTRACT

We approach the problem of constructing the holographic dictionary for the AdS_2/CFT_1 correspondence in the context of higher derivative gravitational actions in AdS_2 space-times. These actions are obtained by an R^2 reduction of four-dimensional $\mathcal{N}=2$ Wilsonian effective actions with Weyl squared interactions. We focus on BPS black hole solutions, for which we show how the Wald entropy of these black holes is holographically encoded in the dual CFT. Additionally, using a 2d/3d lift, we show that the CFT holographically dual to AdS_2 is naturally embedded in the chiral half of the CFT_2 dual to the AdS_3 space-time. Zoom link: <https://unipd.zoom.us/j/81195975077>

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