

TTbar and the black hole interior

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Date and time: Sept 24, Tuesday (11 am)
Venue: A 304

The zoom link will be sent separately.



It was conjectured that a holographic CFT deformed by the TTbar operator is dual to a bulk with a finite radial cutoff. I will describe a sequence of deformations that appear to push the cutoff surface into the black hole interior. The finite boundary is always at a constant radial surface, which means it changes signature when in the interior. I will provide a bulk path integral whose saddles describe these bulk spacetimes with finite spacelike cutoff surfaces. These results are restricted to 3d and JT gravity.