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Towards holographic integrable deformations of Warped CFTs

Integrable deformations of 2-dimensional quantum field theories include the $T\bar{T}$ and $J\bar{T}$ deformations. These deformations are well defined in any translationally invariant quantum field theory, including QFTs without Lorentz invariance, such as Warped CFTs. Warped CFTs have been shown to be holographically realized through so-called lower spin gravity. By adapting the deformed boundary conditions recently discussed in the context of holographic dual to $T\bar{T}$ and $J\bar{T}$ deformed CFTs to the warped geometry context, we investigate how a $T\bar{T}$ deformed Warped CFT affects a bulk geometry.

Type of contribution

Contributed Talk or Poster

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