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Holographic dual of TTbar BCFT

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We consider two types of $T\bar{T}$ deformed Boundary Conformal Field Theory (BCFT) and propose their holographic duals. The first type, which we refer to as Type A, deforms the boundary of the BCFT using the $T\bar{T}$ operator. The second type, referred to as Type B, leaves the boundary of the BCFT undeformed. We compute boundary entropy in Type A to show the boundary deformation and compute the entanglement entropy (EE) and Renyi entropy in Type B to provide evidence. Additionally, we generalize the duality to BTZ black hole case and compute the energy spectrum. This further supports the duality.

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