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Holographic entanglement entropy and c-functions in conformal and confining backgrounds

Wednesday 17 December 2025 14:59 (7 minutes)

I will discuss holographic spacelike and timelike entanglement entropy using the Ryu-Takayanagi prescription, for different-shaped entangling regions. I work with an infinite family of 10-dimensional Type IIB supergravity solutions, which are gravity duals to an infinite set of linear quiver theories which are 4-dimensional confining theories at low energy, but decompactify and flow to 5-dimensional SCFTs in the UV. I use the EE to investigate proposed c-functions, and compare with the ‘flow central charge’.

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