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Entanglement entropy associated to a far-from-equilibrium energy flow

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The time evolution of the energy transport triggered in a strongly coupled quantum critical system by a temperature gradient is holographically related to the evolution of an asymptotically AdS black brane with a gradient in its planar horizon. A relevant observable that provides physical insight about the evolution of this system and the eventual formation of a steady state is the entanglement entropy. In this talk, I will present an overview of this problem, along with results for the entanglement entropy in the regime where the difference in temperatures is small.

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