



String Theory Group

at the University of Turin

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Holographic Entanglement Entropy and Topological Terms

We consider the renormalization of holographic entanglement entropy (HEE) for Conformal Field Theories in odd dimensions, dual to Einstein gravity with negative cosmological constant in one dimension higher. We make explicit the equivalence between renormalized entropy and the renormalized area of the entangling surface. In particular, for constant-curvature surfaces, HEE is fully determined in terms of a single topological number (Euler characteristic).



Tuesday, 9 October 2018, 14:30, Aula Fubini

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