



Joint seminar of department “Theory of Fundamental Interactions” and “Modern Mathematical Physics”

16:00, Thursday, November 29, 2018
Blokhintsev Hall, BLTP

Holographic Entanglement Entropy and Topological Terms

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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).

(Based on arXiv:1712.09099, 1803.04990 and 1806.10708)

