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Generalizing holographic entanglement entropy beyond spatial entanglement

We introduce a generalized entanglement measure in AdS/CFT measuring entanglement between different fields as well as between spatial degrees of freedom. We explain its definition on the example of two-dimensional holographic conformal field theories and propose a bulk dual in generalization of the Ryu-Takayanagi formula given by the area of codimension two surfaces winding around black hole horizons or naked singularities. Finally, we sketch a possible derivation of this generalized Ryu-Takayanagi formula and comment on higher dimensions.

Type of contribution

Contributed Talk or Poster

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