

Holography, quantum information and gravity.

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Content

The AdS/CFT correspondence is a duality connecting a gravitational theory with a special kind of QFT. Physical observables, on both sides, are related by a dictionary, which gives the possibility to translate QFT calculations, in certain limits, into geometric computations. In this context, the entanglement entropy associated to a spatial subregion on the CFT is dual to the area of an extremal surface on the gravity side. In this talk, I'm going to review some of the consequences of this connection. In particular, I'm going to motivate the connection between quantum information theory and gravity.

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