

Renormalized entanglement entropy

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Entanglement entropy is a quantity that has received a large amount of attention recently in the literature, especially after the holographic prescription from Ryu and Takayanagi. It is a well known fact that the entanglement entropy is a UV divergent quantity and therefore should be renormalized.

There have been attempts recently to define a renormalized version of the entanglement entropy, though previous attempts have all fallen short in one area or another. In this talk I will present recent work done with my supervisor, Marika Taylor, on formulating a renormalized holographic entanglement entropy using the standard holographic renormalization methods.

Primary author: Mr WOODHEAD, William (University of Southampton)

Presenter: Mr WOODHEAD, William (University of Southampton)

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