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Estimation for 2 dimensional free fermion negativity

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Quantum entanglement is a has played an increasingly important role in string theory.In this presentation, I will talk about negativity, a measure of entanglement for tripartite systems. In particularly, the negativity of a 2 dimensional free fermion, which is still a open question. I will discuss the main difficulty and current knowledge of the free fermion negativity and introduce a path integral which is a convenient tool to help us study the feature of negativity.

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