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Title: Renyi entropy in AdS_3/CFT_2

Abstract: The holographic entanglement Renyi entropy opens a new window to study the AdS_3/CFT_2 correspondence. Our study in the past few years shows that the correspondence on the Renyi entropy is perturbatively exact not only at tree level, but also at 1-loop level. This inspired us to prove the 1-loop partition function of any handle-body configuration from dual CFT. Novel forms of entanglement and spacetime geometry