Entanglement of purification in the presence of axion fields

M R Mohammadi Mozaffar[*] and K Babaei Velni

Faculty of Physics, University of Guilan, Guilan, Iran

E-mail: mmohammadi@guilan.ac.ir

Abstract
We study the entanglement of purification in a field theory with momentum relaxation using gauge/gravity duality. The dual geometry is an asymptotically AdS spacetime which is a solution to Einestein-Hilbert action coupled to axionic fields. Our study show that the critical separation for the transition of entanglement of purification decreases as we increase the dissipation parameter, hence the total correlation between the subsystems decreases.

For full article, refer to the Persian section