

# Entanglement negativity in Galilean conformal field theories

Himanshu Parihar\*

Affiliation: Department of Physics, Indian Institute of Technology, Kanpur, India

\*Corresponding author: [himansp@iitk.ac.in](mailto:himansp@iitk.ac.in)

## Abstract

In this talk, I will describe the entanglement negativity for various bipartite zero and finite temperature pure and mixed state configurations in a class of  $(1 + 1)$ -dimensional Galilean conformal field theories. I will recount our construction in this context for computing the entanglement negativity for such bipartite states involving a suitable replica technique. Our construction exactly reproduces certain universal features observed for entanglement negativity of corresponding states in relativistic  $(1 + 1)$ -dimensional conformal field theories.

## Reference(s):

[1] V. Malvimat, H. Parihar, B. Paul and G. Sengupta, Phys. Rev. D **100** (2019) 026001.