

PURE STATES ENTANGLEMENT ENTROPY IN NON COMMUTATIVE 2D DE SITTER SPACE-TIME

F.GHITI and H.AISSAOUI

*Laboratoire de Physique Mathématique et Subatomique
Physics Department, Faculty of Fundamental Sciences,
Constantine1 University, Constantine, Algeria*

ABSTRACT. The entanglement entropy of pure states is discussed within a cosmological non commutative 2D de Sitter space-time. The obtained results are shown to depend strongly on the sign and values of the non commutativity parameters. Both fermionic and bosonic behaviors are also commented.