

■ **Makoto NAKAMURA** Department of Mathematical sciences, Yamagata University, Kojirakawa-machi 1-4-12, Yamagata 990-8560, JAPAN, email: nakamura@sci.kj.yamagata-u.ac.jp,

Energy solutions for nonlinear Klein-Gordon equations in de Sitter spacetime

Abstract

The Cauchy problem for nonlinear Klein-Gordon equations is considered in de Sitter spacetime. The nonlinear terms are power type or exponential type. The local and global solutions are shown in the energy class.