The Cauchy problem for nonlinear complex Ginzburg-Landau equations

Makoto NAKAMURA

Department of Mathematical sciences, Yamagata University, Yamagata, JAPAN email: nakamura@sci.kj.yamagata-u.ac.jp

Abstract The Cauchy problem of nonlinear complex Ginzburg-Landau equations is considered in Sobolev spaces under the variance of the space-time. Some properties by the spatial expansion on energy solutions are remarked.