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THE ASYMPTOTIC BEHAVIOR OF WEAK SOLUTION OF CAUCHY PROBLEM FOR A CLASS SOBOLEV TYPE SEMILINEAR EQUATION

Abstract

Cauchy problem for a class Sobolev type semi linear equation is considered. The existence and uniqueness of weak solution are proved and the behavior of weak solutions as $t \to +\infty$ are investigated. The considered class of equations in particular includes the semi linear wave equations with dissipation.