

1068-35-37

J. E. Lin* (jelin@gmu.edu), 4400 University Drive, Fairfax, VA 22030. *Local Time Decay for a Quasilinear Schrödinger Equation.*

We study the solutions of a quasilinear Schrödinger equation which arises in many area of physical modeling. Using the Morawetz Radial Identity, we show that the energy is locally integrable in time and the local L2-norm of the solution decays to zero as time approaches infinity. (Received December 30, 2010)