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Sahbi Keraani* (keraani@univ-rennes1.fr), Campus de Beaulieu, 35042 Rennes, France. *On the singular solutions of L^2 -critical Nonlinear Schrödinger Equations below H^1 .*

It is well known that the blow up theory of the nonlinear Schrödinger equations (NLS) is heavily related to the energy conservation law. For the case of initial data belonging to H^s , with $0 \leq s < 1$ (below the energy level), the classical energy arguments don't work.

In this talk we discuss some properties of singular solutions of the L^2 -critical nonlinear Schrödinger equations below the energy level. (Received August 02, 2007)