

Asymptotic profiles and blowup rates for the L^2 critical nonlinear Schrödinger equations.

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Abstract

This talk will be focused on some relations between the asymptotic profiles of blowup solutions and blowup rates of those to the L^2 critical nonlinear Schrödinger equations. We will see that the so-called loglog-law appears only in certain profiles of blowup solutions, and also discuss the applicability of Nelson diffusions to the study of determining the blowup rates.