

Long time dynamics and blow-up for the focusing inhomogeneous nonlinear Schrödinger equation with spatially growing nonlinearity

Cite as: J. Math. Phys. 64, 081509 (2023); doi: 10.1063/5.0143716

Submitted: 25 January 2023 • Accepted: 17 July 2023 •

Published Online: 18 August 2023



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ABSTRACT

We investigate the Cauchy problem for the focusing inhomogeneous nonlinear Schrödinger equation $i\partial_t u + \Delta u = -|x|^b |u|^{p-1} u$ in the radial Sobolev space $H^1_b(\mathbb{R}^N)$, where $b > 0$ and $p > 1$. We show the global existence and energy scattering in the intercritical regime, i.e., $p > \frac{N+1+2b}{N-2}$ and $p < \frac{N+1+2b}{N-2}$ if $N \geq 3$. We also obtain blowing-up solutions for the mass-critical and mass-supercritical nonlinearities. The main difficulty, coming from the spatial growing nonlinearity, is overcome by refined Gagliardo–Nirenberg-type inequalities. Our proofs are based on improved Gagliardo–Nirenberg inequalities, the Morawetz–Sobolev approach of Dodson and Murphy [Proc. Am. Math. Soc. 145(11), 4859–4867 (2017)], radial Sobolev embeddings, and localized virial estimates.

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1. INTRODUCTION

In this paper, we consider the Cauchy problem for the following focusing inhomogeneous nonlinear Schrödinger equation:

$$i\partial_t u + \Delta u = -|x|^b |u|^{p-1} u, \quad (t, x) \in \mathbb{R}_+ \times \mathbb{R}^N, \quad (1.1)$$

where $b > 0$ and $p > 1$. Equation (1.1) is a special case of a more general inhomogeneous nonlinear Schrödinger equation given by

$$i\partial_t u + \Delta u = K(x) |u|^{p-1} u, \quad (1.2)$$

which arises in various physical contexts such as the propagation of a laser beam and plasma waves. Here, u is the electric field in laser optics and K is proportional to the electric density.^{1,2} For $p = 3$, Eq. (1.1) can be viewed as a model of dilute Bose–Einstein condensate when the two-body interactions of the condensate are considered.

The Cauchy problem for (1.2) was first investigated by Merle³ who proves the existence of blow-up solutions in the mass-critical regime and under some assumptions on K including in particular $k_1 \leq K(x) \leq k_2$ with k_1, k_2 being positive constants. Later on, the stability of standing waves was studied in Refs. 7 and 8 for $K(x) = K(|x|)$ with $K \in C^2(\mathbb{R}^N) \cap L^\infty(\mathbb{R}^N)$, $\epsilon > 0$ small, and $p \geq 1 + \frac{2}{N}$. Recently, the Cauchy problem

Long Time Prediction In Dynamics

Eryk Infeld, R. Zelazny, A. Galkowski



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Long-Time Predictions in Dynamics V.G. Szebehely, B.D. Tapley, 2012-12-06 Proceedings of the NATO Advanced Study Institute Cortina D Ampezzo Italy August 3 16 1975 *Nonlinear Dynamics of the Lithosphere and Earthquake Prediction* Vladimir Keilis-Borok, Alexandre A. Soloviev, 2013-03-14 The vulnerability of our civilization to earthquakes is rapidly growing raising earthquakes to the ranks of major threats faced by humankind Earth quake prediction is necessary to reduce that threat by undertaking disaster preparedness measures This is one of the critically urgent problems whose solution requires fundamental research At the same time prediction is a major tool of basic science a source of heuristic constraints and the final test of theories This volume summarizes the state of the art in earthquake prediction Its following aspects are considered Existing prediction algorithms and the quality of predictions they provide Application of such predictions for damage reduction given their current accuracy so far limited Fundamental understanding of the lithosphere gained in earthquake prediction research Emerging possibilities for major improvements of earthquake prediction methods Potential implications for predicting other disasters besides earthquakes Methodologies At the heart of the research described here is the integration of three methodologies phenomenological analysis of observations universal models of complex systems such as those considered in statistical physics and nonlinear dynamics and Earth specific models of tectonic fault networks In addition the theory of optimal control is used to link earthquake prediction with earthquake preparedness **Vibro-impact Dynamics** Albert C. J. Luo, Yu Guo, 2013-01-25 Presents a systematic view of vibro impact dynamics based on the nonlinear dynamics analysis Comprehensive understanding of any vibro impact system is critically impeded by the lack of analytical tools viable for properly characterizing grazing bifurcation The authors establish vibro impact dynamics as a subset of the theory of discontinuous systems thus enabling all vibro impact systems to be explored and characterized for applications Vibro impact Dynamics presents an original theoretical way of analyzing the behavior of vibro impact dynamics that can be extended to discontinuous dynamics All topics are logically integrated to allow for vibro impact dynamics the central theme to be presented It provides a unified treatment on the topic with a sound theoretical base that is applicable to both continuous and discrete systems Vibro impact Dynamics Presents mapping dynamics to determine bifurcation and chaos in vibro impact systems Offers two simple vibro impact systems with comprehensive physical interpretation of complex motions Uses the theory for discontinuous dynamical systems on time varying domains to investigate the Fermi oscillator Essential reading for graduate students university professors researchers and scientists in mechanical engineering *Deep Learning in Multi-step Prediction of Chaotic Dynamics* Matteo Sangiorgio, Fabio Dercole, Giorgio Guariso, 2022-02-14 The book represents the first attempt to systematically deal with the use of deep neural networks to forecast chaotic time series Differently from most of the current literature it implements a multi step approach i.e. the forecast of an entire interval of future values This is relevant for many applications such as model predictive control that requires predicting the values for

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Panchev, 2012-12-06 1 ABOUT THE DISCIPLINE DYNAMIC METEOROLOGY The name dynamic meteorology is traditional for designating a university course as well as the scientific branch of meteorology as a whole While there is no need to abandon this name it needs contemporary treatment and specifications in its definition A synonym for it could be dynamics more precisely hydrodynamics or fluid dynamics of the atmosphere It suggests the relationship of this discipline to general hydrodynamics and applied mathematics and its pronounced theoretical nature Besides the atmosphere however our planet has another liquid envelope the hydrosphere world's ocean which also concerns ocean dynamics and therefore it is necessary to define from a unified standpoint the subject and aims of the disciplines dealing with the dynamics of the processes which take place in both fluid spheres Such a unified standpoint offers the so called geophysical fluid dynamics During the past few years this description is encountered quite often in scientific literature concerning the Earth as a planet Obviously a scientific branch or a science is created whose subject is our planet and the investigation methods are borrowed from classical fluid dynamics and applied mathematics including the most recent numerical methods As can be seen from its very suitable name it is the dynamics of quite definite geophysical fluids atmosphere ocean and even the liquid inside of the Earth and not of some abstract often perfect fluids as in classical hydrodynamics

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