

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

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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

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5. In chapter 4, the author will scrutinize the relevance of Long Time Prediction In Dynamics in specific contexts. This chapter will explore how Long Time Prediction In Dynamics is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Long Time Prediction In Dynamics. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Long Time Prediction In Dynamics.

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Table of Contents Long Time Predicton In Dynamics

1. Understanding the eBook Long Time Predicton In Dynamics
 - The Rise of Digital Reading Long Time Predicton In Dynamics
 - Advantages of eBooks Over Traditional Books
2. Identifying Long Time Predicton In Dynamics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Long Time Predicton In Dynamics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Long Time Predicton In Dynamics
 - Personalized Recommendations
 - Long Time Predicton In Dynamics User Reviews and Ratings
 - Long Time Predicton In Dynamics and Bestseller Lists
5. Accessing Long Time Predicton In Dynamics Free and Paid eBooks
 - Long Time Predicton In Dynamics Public Domain eBooks
 - Long Time Predicton In Dynamics eBook Subscription Services
 - Long Time Predicton In Dynamics Budget-Friendly Options
6. Navigating Long Time Predicton In Dynamics eBook Formats
 - ePub, PDF, MOBI, and More
 - Long Time Predicton In Dynamics Compatibility with Devices
 - Long Time Predicton In Dynamics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Long Time Predicton In Dynamics
 - Highlighting and Note-Taking Long Time Predicton In Dynamics
 - Interactive Elements Long Time Predicton In Dynamics
8. Staying Engaged with Long Time Predicton In Dynamics

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Long Time Predicton In Dynamics
9. Balancing eBooks and Physical Books Long Time Predicton In Dynamics
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Long Time Predicton In Dynamics
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Long Time Predicton In Dynamics
- Setting Reading Goals Long Time Predicton In Dynamics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Long Time Predicton In Dynamics
- Fact-Checking eBook Content of Long Time Predicton In Dynamics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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