

THE DISCRETE NONLINEAR SCHRÖDINGER EQUATION – 20 YEARS ON

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We review work on the Discrete Nonlinear Schrödinger (DNLS) equation over the last two decades.

1. Introduction

The Discrete Nonlinear Schrödinger (DNLS) equation describes a particularly simple model for a lattice of coupled anharmonic oscillators. In one spatial dimension, the equation in its simplest form is

$$i\frac{dA_j}{dt} + \gamma|A_j|^2A_j + \varepsilon(A_{j+1} + A_{j-1}) = 0, \quad (1)$$

where $i = \sqrt{-1}$, the index j ranges over the 1D lattice. The lattice may be infinite ($j = 0, \pm 1, \pm 2, \dots$) or finite ($j = 1, 2, \dots, f$). In the latter case one usually assumes periodic boundary conditions, $A_{j+f} = A_j$. The quantity $A_j = A_j(t)$ is the complex mode amplitude of the oscillator at site j , and γ is a anharmonic parameter.

The connection with the continuous Nonlinear Schrödinger (NLS) equation

$$iA_t + \gamma|A|^2A + A_{xx} = 0 \quad (2)$$

The Discrete Nonlinear Schr Dinger Equation

Amal Jasim Mohammed



The Discrete Nonlinear Schrödinger Equation:

The Discrete Nonlinear Schrödinger Equation Panayotis G. Kevrekidis, 2009-07-07 This book constitutes the first effort to summarize a large volume of results obtained over the past 20 years in the context of the Discrete Nonlinear Schrödinger equation and the physical settings that it describes **Existence of a Solution to the Discrete Nonlinear Schrödinger Equation** Santhosh Heddese, 2004 Discrete and Continuous Nonlinear Schrödinger Systems M. J. Ablowitz, B. Prinari, A. D. Trubatch, 2004 In recent years there have been important and far reaching developments in the study of nonlinear waves and a class of nonlinear wave equations which arise frequently in applications The wide interest in this field comes from the understanding of special waves called solitons and the associated development of a method of solution to a class of nonlinear wave equations termed the inverse scattering transform IST Before these developments very little was known about the solutions to such soliton equations The IST technique applies to both continuous and discrete nonlinear Schrödinger equations of scalar and vector type Also included is the IST for the Toda lattice and nonlinear ladder network which are well known discrete systems This book first published in 2003 presents the detailed mathematical analysis of the scattering theory soliton solutions are obtained and soliton interactions both scalar and vector are analyzed Much of the material is not available in the previously published literature *On the Discrete Nonlinear Schrödinger Equation with PT-symmetry* Amal Jasim Mohammed, 2018 The Nonequilibrium Discrete Nonlinear Schrödinger Equation Stefano Iubini, 2013 **Positive Solutions for the Discrete Nonlinear Schrödinger Equation: A Priori Estimates and Convergence** Anton Verbitsky, 2014 **Discrete Nonlinear Schrödinger Equation: Beyond Complete Integrability** Guoping Zhang, Alexander Pankov, 2024-07-30 The book is devoted to rigorous mathematical results on discrete nonlinear Schrödinger equations DNLS including the initial value problem of the time dependent DNLS and the standing wave of the stationary DNLS The stationary DNLS equations appear as equations for the profile of the standing wave in evolutionary DNLS The book mainly presents well localized finite energy solutions that represent solitary standing waves breathers in the terminology of nonlinear science while some other types of solutions are considered as well The approach accepted in this book is variational based on various critical point theorems of the mountain pass and linking type as well as constrained minimization The book covers the existence of solutions and their properties under various physically reasonable assumptions on linear and nonlinear potentials It also contains a number of open problems which might be possible thesis topics for fresh PhD students The results presented are scattered over a large number of research articles and have never been presented in a monograph form In addition there are necessary material from the spectral theory of discrete Schrödinger operators time dependent DNLS and a brief presentation of critical point theorems used in the book *Ultra-slow Dynamics of Localised Modes in the Discrete Nonlinear Schrödinger Equation* Liviu Florin Chirundojan, 2019 *On the Equivalence of the Discrete Nonlinear Schrödinger Equation and the Discrete Isotropic Heisenberg Magnet* Tim

Hoffmann,1999 **Algebraic Aspects of the Dispersionless Limit of the Discrete Nonlinear Schrödinger Equation**

Bole Yang,2013 We study the DNLS and its dispersionless limit based on a family of matrices named after Cantero Moral and Velazquez CMV The work is an analog to that of the Toda lattice and dispersionless Toda We rigorously introduce the constants of motion and matrix symbols of the dispersionless limit of the DNLS The thesis is an algebraic preparation for some potential geometry setup in the continuum sense as the next step The Existence and Stability of Solitons in Discrete Nonlinear Schrödinger Equations Mahdhivan Syafwan,2012 Staggered and Short Period Solutions of the Saturable Discrete Nonlinear Schrodinger Equations ,2008 **A semi-discrete scheme for the stochastic nonlinear Schrödinger equation** Anne De Bouard,Arnaud Debussche,2001 Dynamics of a Discrete Quantum Nonlinear Schrödinger Equation J. Timonen,1989 Nonlinear Klein-gordon And Schrodinger Systems: Theory And Applications Luis Vazquez,Ludwig Streit,Victor Manuel Perez-garcia,1996-06-20 This is the first of two Euroconferences aimed at addressing the issues of Nonlinearity and Disorder The 1995 Euroconference was devoted to the mathematical numerical and experimental studies related to the Klein Gordon and Schr dinger systems The Euroconference was organized around main lectures in each area to introduce the main concepts and stimulate discussions The mathematical studies covered the functional anlaysis and stochastic techniques applied to the general Klein Gordon and Schr dinger wave equations Also a panoramic view of the numerical schemes was presented to simulate the above equations as well as an overview of the applications of such systems in the areas of condensed matter optical physics new materials and biophysics Special attention was devoted to the discrete Schr dinger and Klein Gordon systems and their applications *Thermodynamics and Statistical Mechanics of Small Systems* Andrea Puglisi,Alessandro Sarracino ,Angelo Vulpiani,2018-09-04 This book is a printed edition of the Special Issue Thermodynamics and Statistical Mechanics of Small Systems that was published in Entropy **Localization in Periodic Potentials** Dmitry E. Pelinovsky,2011-10-06 This book provides a comprehensive treatment of the Gross Pitaevskii equation with a periodic potential in particular the localized modes supported by the periodic potential It takes the mean field model of the Bose Einstein condensation as the starting point of analysis and addresses the existence and stability of localized modes The mean field model is simplified further to the coupled nonlinear Schr dinger equations the nonlinear Dirac equations and the discrete nonlinear Schr dinger equations One of the important features of such systems is the existence of band gaps in the wave transmission spectra which support stationary localized modes known as the gap solitons These localized modes realise a balance between periodicity dispersion and nonlinearity of the physical system Written for researchers in applied mathematics this book mainly focuses on the mathematical properties of the Gross Pitaevskii equation It also serves as a reference for theoretical physicists interested in localization in periodic potentials **Artificial Intelligence and Complex Dynamical Systems** Giorgos Tsironis,2025-03-13 This book serves as a comprehensive introduction to nonlinear complex systems through the application of machine learning methods Artificial intelligence AI has affected the foundations of

scientific discovery and can therefore lend itself to developing a better understanding of the unpredictable nature of complex dynamical systems and to predict their future evolution Utilizing Python code this book teaches and applies machine learning to topics such as chaotic dynamics and time series analysis solitons breathers chimeras nonlinear localization biomolecular dynamics and wave propagation in the heart The consistent integration of methods and models allow for readers to develop a necessary intuition on how to handle complexity through AI This textbook contains a wealth of expository material code and example problems to support and organize academic coursework allowing the technical nature of these areas of study to become highly accessible Requiring only a basic background in mathematics and coding in Python this book is an essential text for a wide array of advanced undergraduate or graduate students in the applied sciences interested in complex systems through the lens of machine learning

Information Engineering and Applications Rongbo Zhu,Yan Ma,2011-11-13 In past twenty years or so information technology has influenced and changed every aspect of our lives and our cultures Without various IT based applications we would find it difficult to keep information stored securely to process information and business efficiently and to communicate information conveniently In the future world ITs and information engineering will play a very important role in convergence of computing communication business and all other computational sciences and application and it also will influence the future world s various areas including science engineering industry business law politics culture and medicine The International Conference on Information Engineering and Applications IEA 2011 is intended to foster the dissemination of state of the art research in information and business areas including their models services and novel applications associated with their utilization International Conference on Information Engineering and Applications IEA 2011 is organized by Chongqing Normal University Chongqing University Shanghai Jiao Tong University Nanyang Technological University University of Michigan and the Chongqing University of Arts and Sciences and is sponsored by National Natural Science Foundation of China NSFC The objective of IEA 2011 is to will provide a forum for engineers and scientists in academia industry and government to address the most innovative research and development Information Engineering and Applications provides a summary of this conference including contributions for key speakers on subjects such as technical challenges social and economic issues and ideas results and current work on all aspects of advanced information and business intelligence

Rogue Waves Boling Guo,Lixin Tian,Zhenya Yan,Liming Ling,Yu-Feng Wang,2017-06-26 This book gives an overview of the theoretical research on rogue waves and discusses solutions to rogue wave formation via the Darboux and bilinear transformations algebro geometric reduction and inverse scattering and similarity transformations Studies on nonlinear optics are included making the book a comprehensive reference for researchers in applied mathematics optical physics geophysics and ocean engineering Contents The Research Process for Rogue Waves Construction of Rogue Wave Solution by the Generalized Darboux Transformation Construction of Rogue Wave Solution by Hirota Bilinear Method Algebro geometric Approach and Inverse Scattering Method The Rogue Wave Solution

and Parameters Managing in Nonautonomous Physical Model

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Table of Contents The Discrete Nonlinear Schr Dinger Equation

1. Understanding the eBook The Discrete Nonlinear Schr Dinger Equation
 - The Rise of Digital Reading The Discrete Nonlinear Schr Dinger Equation
 - Advantages of eBooks Over Traditional Books
2. Identifying The Discrete Nonlinear Schr Dinger Equation
 - 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 The Discrete Nonlinear Schr Dinger Equation
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Discrete Nonlinear Schr Dinger Equation
 - Personalized Recommendations
 - The Discrete Nonlinear Schr Dinger Equation User Reviews and Ratings

- The Discrete Nonlinear Schrödinger Equation and Bestseller Lists
- 5. Accessing The Discrete Nonlinear Schrödinger Equation Free and Paid eBooks
 - The Discrete Nonlinear Schrödinger Equation Public Domain eBooks
 - The Discrete Nonlinear Schrödinger Equation eBook Subscription Services
 - The Discrete Nonlinear Schrödinger Equation Budget-Friendly Options
- 6. Navigating The Discrete Nonlinear Schrödinger Equation eBook Formats
 - ePub, PDF, MOBI, and More
 - The Discrete Nonlinear Schrödinger Equation Compatibility with Devices
 - The Discrete Nonlinear Schrödinger Equation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Discrete Nonlinear Schrödinger Equation
 - Highlighting and Note-Taking The Discrete Nonlinear Schrödinger Equation
 - Interactive Elements The Discrete Nonlinear Schrödinger Equation
- 8. Staying Engaged with The Discrete Nonlinear Schrödinger Equation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Discrete Nonlinear Schrödinger Equation
- 9. Balancing eBooks and Physical Books The Discrete Nonlinear Schrödinger Equation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Discrete Nonlinear Schrödinger Equation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Discrete Nonlinear Schrödinger Equation
 - Setting Reading Goals The Discrete Nonlinear Schrödinger Equation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Discrete Nonlinear Schrödinger Equation
 - Fact-Checking eBook Content of The Discrete Nonlinear Schrödinger Equation
 - 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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