

1) The Nonlinear Schrödinger (NLS) equation is a model for weakly nonlinear periodic wave trains in optics, fluid mechanics and plasma physics among many other fields. Consider the 1D NLS equation in the simplified form

$$i\partial_t u + \partial_x^2 u + q|u|^2 u = 0, \quad \text{for } 0 \leq x \leq L, \quad 0 \leq t \leq T, \quad (1)$$

where  $u(x, t)$  is a complex-valued function,  $q > 0$  is a real parameter and  $i^2 = -1$ . Physically,  $u(x, t)$  describes the envelope of wave trains.

An exact solution of (1) is given by

$$u_0(t) = A e^{iq|A|^2 t}, \quad A \text{ being a real constant.} \quad (2)$$

Eq. (1) can be solved numerically using the split-step method. Based on the fact that

$$u(x, t + \Delta t) \simeq e^{i\Delta t \partial_x^2} e^{i\Delta t q|u|^2} u(x, t),$$

and using the rational approximation

$$e^{i\Delta t \partial_x^2} = (I - \theta i\Delta t \partial_x^2)^{-1} (I + (1 - \theta) i\Delta t \partial_x^2),$$

where  $I$  is the identity operator and  $\theta$  is a free parameter with  $0 \leq \theta \leq 1$ , the following two-step implicit scheme can be derived

$$v_j^n = e^{i\Delta t q|u_j^n|^2} u_j^n, \quad (3)$$

$$u_j^{n+1} - i \frac{\Delta t}{(\Delta x)^2} \theta (u_{j+1}^{n+1} - 2u_j^{n+1} + u_{j-1}^{n+1}) = v_j^n + i \frac{\Delta t}{(\Delta x)^2} (1 - \theta) (v_{j+1}^n - 2v_j^n + v_{j-1}^n). \quad (4)$$

(a) Write a Matlab code that solves the NLS equation (1) using the split step scheme (3)–(4). The initial condition is  $u(x, 0) = A$  and the boundary conditions in  $x$  are periodic. Use the parameters  $L = 16$ ,  $T = 24$ ,  $\Delta x = 0.1$ ,  $\Delta t = 0.01$ ,  $q = 2$ ,  $\theta = 0.5$  and  $A = 0.5$ .

Show that  $|u|$  is invariant in time by plotting snapshots of  $|u|$  versus  $x$ .

# Nonlinear Schrodinger Equation

**Peter E. Zhidkov**



## **Nonlinear Schrodinger Equation:**

Schrödinger Equations in Nonlinear Systems Wu-Ming Liu, Emmanuel Kengne, 2019-03-20 This book explores the diverse types of Schrödinger equations that appear in nonlinear systems in general with a specific focus on nonlinear transmission networks and Bose Einstein Condensates In the context of nonlinear transmission networks it employs various methods to rigorously model the phenomena of modulated matter wave propagation in the network leading to nonlinear Schrödinger NLS equations Modeling these phenomena is largely based on the reductive perturbation method and the derived NLS equations are then used to methodically investigate the dynamics of matter wave solitons in the network In the context of Bose Einstein condensates BECs the book analyzes the dynamical properties of NLS equations with the external potential of different types which govern the dynamics of modulated matter waves in BECs with either two body interactions or both two and three body interatomic interactions It also discusses the method of investigating both the well posedness and the ill posedness of the boundary problem for linear and nonlinear Schrödinger equations and presents new results Using simple examples it then illustrates the results on the boundary problems For both nonlinear transmission networks and Bose Einstein condensates the results obtained are supplemented by numerical calculations and presented as figures

The Nonlinear Schrödinger Equation, 1995

**The Nonlinear Schrödinger Equation** Catherine Sulem, Pierre-Louis Sulem, 2007-06-30 Filling the gap between the mathematical literature and applications to domains the authors have chosen to address the problem of wave collapse by several methods ranging from rigorous mathematical analysis to formal asymptotic expansions and numerical simulations

Global Solutions of Nonlinear Schrödinger Equations Jean Bourgain, 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

**The Nonlinear Schrödinger Equation** Gadi Fibich, 2015-03-06 This book is an interdisciplinary introduction to optical collapse of laser beams which is modelled by singular blow up solutions of the nonlinear Schrödinger equation With great care and detail it develops the subject including the mathematical and physical background and the history of the subject It combines rigorous analysis asymptotic analysis informal arguments numerical simulations physical modelling and physical experiments It repeatedly emphasizes the relations between these approaches and the intuition behind the results The Nonlinear Schrödinger Equation will be useful to graduate students and researchers in applied mathematics who are interested in singular solutions of partial differential equations nonlinear optics and nonlinear waves and to graduate students and researchers in physics and engineering who are interested in nonlinear optics and Bose Einstein condensates It can be used for courses on partial differential equations nonlinear waves and nonlinear optics Gadi Fibich is a Professor of Applied Mathematics at Tel Aviv University This book provides a clear presentation of the nonlinear Schrödinger equation and its applications from various perspectives rigorous analysis informal analysis and physics It will be extremely useful for

students and researchers who enter this field Frank Merle Universit de Cergy Pontoise and Institut des Hautes tudes Scientifiques France Korteweg-de Vries and Nonlinear Schrödinger Equations: Qualitative Theory Peter E. Zhidkov,2001-04-24 The emphasis of this book is on questions typical of nonlinear analysis and qualitative theory of PDEs The selection of the material is related to the author s attempt to illuminate those particularly interesting questions not yet covered in other monographs though they have been the subject of published articles One chapter for example is devoted to the construction of invariant measures for dynamical systems generated by certain equations and a result from a recent paper on basic properties of a system of eigenfunctions of a stationary problem Also considered is an application of the method of qualitative theory of ODes to proving the existence of radial solutions of stationary problems and stability of solutions of NLSE nonvanishing as the spatial variable tends to infinity Finally a recent result on the existence of an infinite sequence of invariant measures for the integrable KdV equation is presented Semi-classical Analysis For Nonlinear Schrodinger Equations: Wkb Analysis, Focal Points, Coherent States (Second Edition) Remi Carles,2020-10-05 The second edition of this book consists of three parts The first one is dedicated to the WKB methods and the semi classical limit before the formation of caustics The second part treats the semi classical limit in the presence of caustics in the special geometric case where the caustic is reduced to a point or to several isolated points The third part is new in this edition and addresses the nonlinear propagation of coherent states The three parts are essentially independent Compared with the first edition the first part is enriched by a new section on multiphase expansions in the case of weakly nonlinear geometric optics and an application related to this study concerning instability results for nonlinear Schr dinger equations in negative order Sobolev spaces The third part is an overview of results concerning nonlinear effects in the propagation of coherent states in the case of a power nonlinearity and in the richer case of Hartree like nonlinearities It includes explicit formulas of an independent interest such as generalized Mehler s formula generalized lens transform Semiclassical Soliton Ensembles for the Focusing Nonlinear Schrodinger Equation (AM-154) Spyridon Kamvissis,Kenneth D.T-R McLaughlin,Peter David Miller,Peter D. Miller,2003-09-07 Providing an asymptotic analysis via completely integrable techniques of the initial value problem for the focusing nonlinear Schrodinger equation in the semiclassical asymptotic regime this text exploits complete integrability to establish pointwise asymptotics for this problem s solution Nonlinear Schrodinger Equation Catherine Sulem,Pierre-Louis Sulem,1999-05-01 *Handbook of Exact Solutions to the Nonlinear Schrödinger Equations* Usama Al Khawaja,Laila Al Sakkaf,2019 This book collects all known solutions to the nonlinear Schr dinger equation NLSE in one resource In addition the book organizes the solutions by classifying and grouping them based on aspects and symmetries they possess Although most of the solutions presented in this book have been derived elsewhere using various methods the authors present a systematic derivation of many solutions and even include new derivations They have also presented symmetries and reductions that connect different solutions through transformations and enable classifying new solutions into

known classes For the user to verify that the presented solutions do satisfy the NLSE this monumental work is accompanied by Mathematica Notebooks containing all solutions This work also features a large number of figures and animations are included to help visualize solutions and their dynamics

**Invariant Measures for Stochastic Nonlinear Schrödinger Equations** Jialin Hong,Xu Wang,2019-08-22 This book provides some recent advance in the study of stochastic nonlinear Schrödinger equations and their numerical approximations including the well posedness ergodicity symplecticity and multi symplecticity It gives an accessible overview of the existence and uniqueness of invariant measures for stochastic differential equations introduces geometric structures including symplecticity and conformal multi symplecticity for nonlinear Schrödinger equations and their numerical approximations and studies the properties and convergence errors of numerical methods for stochastic nonlinear Schrödinger equations This book will appeal to researchers who are interested in numerical analysis stochastic analysis ergodic theory partial differential equation theory etc

**The Nonlinear Schrödinger Equation** Nalan Antar,İlkay Bakırtaş,2022-07-06 The nonlinear Schrödinger equation is a prototypical dispersive nonlinear partial differential equation that has been derived in many areas of physics and analyzed mathematically for many years With this book we aim to capture different perspectives of researchers on the nonlinear Schrödinger equation arising from theoretical numerical and experimental aspects The eight chapters cover a variety of topics related to nonlinear optics quantum mechanics and physics This book provides scientists researchers and engineers as well as graduate and post graduate students working on or interested in the nonlinear Schrödinger equation with an in depth discussion of the latest advances in nonlinear optics and quantum physics

Defocusing Nonlinear Schrödinger Equations Benjamin Dodson,2019-03-28 Explores Schrödinger equations with power type nonlinearity with scattering results for mass and energy critical Schrödinger equations

An introduction to nonlinear Schrödinger equations Thierry Cazenave,1993

**Global Dynamics Above the Ground State Energy for the Combined Power-Type Nonlinear Schrödinger Equations with Energy-Critical Growth at Low Frequencies** Takafumi Akahori,Slim Ibrahim,Hiroaki Kikuchi,Hayato Nawa,2021-11-16

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**Invariant Manifolds and Fibrations for Perturbed Nonlinear Schrödinger Equations** Charles Li,Stephen Wiggins,2012-12-06 This book presents a development of invariant manifold theory for a specific canonical nonlinear wave system the perturbed nonlinear Schrödinger equation The main results fall into two parts The first part is concerned with the persistence and smoothness of locally invariant manifolds The second part is concerned with fibrations of the stable and unstable manifolds of inflowing and overflowing invariant manifolds The central technique for proving these results is Hadamard's graph transform method generalized to an infinite dimensional setting However our setting is somewhat different than other approaches to infinite dimensional invariant manifolds since for conservative wave equations many of the interesting invariant manifolds are infinite dimensional and noncompact The style of the book is that of providing very detailed proofs of theorems for a specific infinite dimensional dynamical system the perturbed nonlinear

Schrodinger equation The book is organized as follows Chapter one gives an introduction which surveys the state of the art of invariant manifold theory for infinite dimensional dynamical systems Chapter two develops the general setup for the perturbed nonlinear Schrodinger equation Chapter three gives the proofs of the main results on persistence and smoothness of invariant manifolds Chapter four gives the proofs of the main results on persistence and smoothness of fibrations of invariant manifolds This book is an outgrowth of our work over the past nine years concerning homoclinic chaos in the perturbed nonlinear Schrodinger equation The theorems in this book provide key building blocks for much of that work

**Global Solutions of Nonlinear Schrodinger Equations** Jean Bourgain, 1999 This volume presents recent progress in the theory of nonlinear dispersive equations primarily the nonlinear Schrodinger NLS equation The Cauchy problem for defocusing NLS with critical nonlinearity is discussed New techniques and results are described on global existence and properties of solutions with Large Cauchy data Current research in harmonic analysis around Strichartz's inequalities and its relevance to nonlinear PDE is presented and several topics in NLS theory on bounded domains are reviewed Using the NLS as an example the book offers comprehensive insight on current research related to dispersive equations and Hamiltonian PDEs

Wigner Measure and Semiclassical Limits of Nonlinear Schrödinger Equations Ping Zhang, This book is based on a course entitled Wigner measures and semiclassical limits of nonlinear Schrodinger equations which the author taught at the Courant Institute of Mathematical Sciences at New York University in the spring of 2007 The author's main purpose is to apply the theory of semiclassical pseudodifferential operators to the study of various high frequency limits of equations from quantum mechanics In particular the focus of attention is on Wigner measure and recent progress on how to use it as a tool to study various problems arising from semiclassical limits of Schrodinger type equations At the end of each chapter the reader will find references and remarks about recent progress on related problems The book is self contained and is suitable for an advanced graduate course on the topic BOOK JACKET

*Nonlinear Fractional Schrödinger Equations in  $R^N$*  Vincenzo Ambrosio, 2021-04-19 This monograph presents recent results concerning nonlinear fractional elliptic problems in the whole space More precisely it investigates the existence multiplicity and qualitative properties of solutions for fractional Schrödinger equations by applying suitable variational and topological methods The book is mainly intended for researchers in pure and applied mathematics physics mechanics and engineering However the material will also be useful for students in higher semesters and young researchers as well as experienced specialists working in the field of nonlocal PDEs This is the first book to approach fractional nonlinear Schrödinger equations by applying variational and topological methods

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