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Lecture 59: Nonlinear Pulse propagation

6. Time Evolution and the Schrödinger Equation The nonlinear Schrödinger equation, nonlinear fluctuating by Manas Kulkarni Stephen GUSTAFSON - Stability of periodic waves of 1D nonlinear Schrödinger equations This equation will change how you see the world (the logistic map) Data Driven Discovery of Dynamical Systems and PDEs Benoît PAUSADER - 1/3 Asymptotic behavior for the cubic nonlinear Schrodinger equation... Time evolution of an unperturbed Gaussian pulse for the integrable Nonlinear Schrodinger Equation

The Discrete Nonlinear Schr Dinger

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 particu-larly simple model for a lattice of coupled anharmonic oscillators. In one spatial dimension, the equation in its simplest form is $i \partial_t \psi + \kappa \nabla^2 \psi + (A |\psi|^2 \psi + \text{c.c.}) = 0$; (1)

THE DISCRETE NONLINEAR SCHRÖDINGER EQUATION ~ { 20 YEARS ON

Introduction. 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. It contains an introduction to the model, its systematic derivation and its connection to applications, a subsequent analysis of the existence and the stability of fundamental nonlinear structures in 1, 2 and even 3 spatial lattice dimensions.

The Discrete Nonlinear Schrödinger Equation | SpringerLink

In theoretical physics, the nonlinear Schrödinger equation is a nonlinear variation of the Schrödinger equation. It is a classical field equation whose principal applications are to the propagation of light in nonlinear optical fibers and planar waveguides and to Bose–Einstein condensates confined to highly anisotropic cigar-shaped traps, in the mean-field regime. Additionally, the equation appears in the studies of small-amplitude gravity waves on the surface of deep inviscid water; the ...

Nonlinear Schrödinger equation - Wikipedia

The Nonlinear Schrodinger (NLS) equation is a prototypical dispersive nonlinear partial differential equation (PDE) that has been derived in many areas of physics and analyzed mathematically for over 40 years. Historically the essence of NLS equations can be found in the early work of Ginzburg and Landau (1950) and Ginzburg (1956) in their study of the macroscopic theory of superconductivity, and also of Ginzburg and Pitaevskii (1958) who subsequently investigated the theory of superfluidity.

Nonlinear Schrodinger systems: continuous and discrete ...

discrete and continuous nonlinear schrdinger systems london mathematical society lecture note series Sep 22, 2020 Posted By Laura Basuki Media Publishing TEXT ID 610027531 Online PDF Ebook Epub Library authors ablowitz m j prinari b trubatch a d publication cambridge cambridge university press 2003 269 p series london mathematical society lecture note series 302 subject

Discrete And Continuous Nonlinear Schrdinger Systems ...

Abstract. We use a discrete multiscale analysis to study the asymptotic integrability of differential-difference equations. In particular, we show that multiscale perturbation techniques provide an analytic tool to derive necessary integrability conditions for two well-known discretizations of the nonlinear Schrodinger equation

Multiscale reduction of discrete nonlinear Schrodinger ...

known as discrete nonlinear schrodinger equation dnlse 48127 128 the solution for the linear waveguide array can be calculated in the special case where the initial the nonlinear schrodinger equation is a simplified 1 1 dimensional form of the ginzburg landau equation introduced in 1950 in their work on superconductivity and was written down explicitly by r y chiao e garmire and c h townes 1964 equation 5 in their study of optical beams the discrete nonlinear schr dinger equation aug 19 2020 ...

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Discrete nonlinear Schrödinger breathers in a phonon bath ...

Let us consider the discrete nonlinear Schrödinger (dnls) equation that describes the motion of a nonlinear excitation propagating along a discrete lattice $\psi_n(t) = \sum_k \hat{c}_k e^{ikn} e^{-i\omega_k t} + \text{c.c.}$ This equation has been used to describe the propagation of excitations in a deformable medium $\psi_n(t)$, transversal propagation of light in waveguide arrays $\psi_n(t)$, dynamics of Bose-Einstein condensates inside coupled magneto-optical traps $\psi_n(t)$, self-focusing and collapse of ...

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[2011.03285] Discrete rogue waves and blow-up from ...

Discrete and Continuous Nonlinear Schrödinger Systems: 302 (London Mathematical Society Lecture Note Series, Series Number 302) by Ablowitz, M. J. at AbeBooks.co.uk - ISBN 10: 0521534372 - ISBN 13: 9780521534376 - Cambridge University Press - 2003 - Softcover

9780521534376: Discrete and Continuous Nonlinear ...

1.3 Nonlinear Schrodinger systems the nonlinear Schrodinger equation (NLS). Subsequently, Manakov extended this approach to the solution of a pair of coupled NLS equations. In fact, Manakov's work applies equally well to a system of N coupled NLS equations, a system that we refer to as vector NLS (VNLS).

Discrete and Continuous Nonlinear Schrödinger Systems

Buy The Discrete Nonlinear Schrodinger Equation (Springer Tracts in Modern Physics) 2009 by Kevrekidis, Panayotis G., Carretero-Gonzalez, Ricardo, Champneys, Alan R. (ISBN: 9783540891987) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

The Discrete Nonlinear Schrodinger Equation (Springer ...

4. Discrete nonlinear Schrödinger equations. Discrete nonlinear Schrödinger equations are omnipresent in applied sciences, e.g. describing the propagation of electromagnetic waves in glass fibers, one-dimensional arrays of coupled optical waveguides and light-induced photonic crystal lattices .

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Hence, there exists a constant T such that the discrete nonlinear Schrödinger equation has a local unique solution $A \in C([0, T], \ell^2(\mathbb{Z}))$ with $\sup_{t \in [0, T]} \|A(t)\|_{\ell^2(\mathbb{Z})} \leq \delta$. We can construct the maximal solution by repeating the process above and gluing the solution using uniqueness condition.