

## THE DISCRETE NONLINEAR SCHRÖDINGER EQUATION

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(PDF) The Discrete Nonlinear Schrödinger Equation - 20 ...

The connection with the continuous Nonlinear Schrödinger (NLS) equation  $(\partial_t + \mu|A|^2)A + A \partial_x^2 A = 0$  (2) is more clear if we write (1) in an alternative form  $A_j + \mu(A_j + 1/2A_{j-1} + A_{j-1}) = 0$ .

Nonlinear Schrödinger equation - Wikipedia

In theoretical physics, the (one-dimensional) nonlinear Schrödinger equation (NLSE) is a nonlinear variation of the Schrödinger equation. It is a [discrete nonlinear Schrödinger and Klein Gordon](#). Finally, besides its applications in nonlinear optics, the discrete nonlinear Schrödinger equation is a relevant model for Bose-Einstein condensates trapped in strong optical lattices (formed by the interference patterns of laser beams) [7, 8].

Discrete And Continuous Nonlinear Schrödinger Systems ...

Discrete And Continuous Nonlinear Schrödinger Systems London Mathematical Society Lecture Note Vol 302 London Mathematical Society Lecture Note Series arXiv:nlm/0211049v1 [nlm.PS] 27 Nov 2002 - ResearchGate

The Discrete Nonlinear Schrödinger (DNLS) equation describes a particularly simple model for a lattice of coupled anharmonic oscillators. In one

Discrete and Continuous Nonlinear Schrödinger Systems ...

3 Integrable discrete nonlinear Schrödinger equation  $C_{in} - C_{out} = z^2 - 1/z^2 - 1/z^2 - 1/z^2$  Figure 3.1: The contours  $C_{out}$  and  $C_{in}$  for the integrals in (3.2.19) that avoid singularities at  $p = 0$  and  $p = z^2$ .

Dispersive numerical schemes for linear and nonlinear Schr ...

tions of the nonlinear problem in  $C([0, T]; H^1) \times X$ . One then needs to investigate whether  $F: C([0, T]; H^1) \times C([0, T]; H^1) \times X$  is locally Lipschitz. This requires extra work: We need to check the behavior of  $F$  in the space  $X$ . But the the class of functions to be tested is restricted to those belonging to  $X$ . Typically in applications  $X = L^1(0, T; L^q(\cdot))$ .

Semi-Classical Analysis For Nonlinear Schrödinger ...

Semi-Classical Analysis For Nonlinear Schrödinger Equations. Book Title :Semi-Classical Analysis For Nonlinear Schrödinger Equations. These lecture notes review recent results on the high-frequency analysis of nonlinear Schrödinger equations in the presence of an external potential.

A semi-discrete scheme for the stochastic nonlinear ...

However, in the semi-discrete case, no Itô formula is available and we have to use a discrete form of this tool. Also, in the course of the proof we need to introduce a cut-off of the diffusion coefficient, which allows to treat the nonlinearity. Then, we prove convergence by a compactness argument.

**Discrete Nonlinear Schrödinger Equation, Solitons and ...**

Discrete Nonlinear Schrödinger Equation, P.G. Kevrekidis, The Discrete Nonlinear Schrödinger Equation: Mathematical Analysis,

**Optical soliton solutions of the generalized higher-order ...**

The propagation of the optical solitons is usually governed by the higher order nonlinear Schrödinger equations (NLSE). In optics, the NLSE modelizes

**Small-world networks of optical fiber lattices - IOPscience**

Small-world networks of optical fiber lattices, trapping in the discrete nonlinear Schrödinger in the discrete nonlinear Schrödinger

**OSA | Modulation stability analysis of exact ...**

We analyze the modulation stability of spatiotemporal solitary and traveling wave solutions to the multidimensional nonlinear Schrödinger equation and the

**ON A GENERAL METHOD FOR INVESTIGATION OF FINITE DIFFERENCE ...**

ON A GENERAL METHOD FOR INVESTIGATION OF FINITE DIFFERENCE SCHEMES nonlinear Schrödinger for investigation of finite difference

**Split-Step Methods for the Solution of the Nonlinear ...**

A split-step method is used to discretize the time variable for the numerical solution of the nonlinear nonlinear wave equations. Discrete