

2003 Vol . 39 No. 2 pp. 181-188 DOI :

Hamiltonian Formalism of the Derivative Nonlinear Schrödinger Equation

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(Received: 2002-6-20; Revised:)

Abstract: A particular form of poisson bracket is introduced for the derivative nonlinear Schrödinger (DNLS) equation. And its Hamiltonian formalism is developed by a linear combination method. Action-angle variables are found.

PACS: 11.10.Ef, 05.45.Yv, 02.30.-f

Key words: soliton, Hamiltonian theory, nonlinear equation

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