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Mathematical Physics

Hierarchy of integrable Hamiltonians describing of nonlinear n-wave interaction

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(Submitted on 16 Jun 2011)

In the paper we construct an hierarchy of integrable Hamiltonian systems which describe the variation of n-wave envelopes in nonlinear dielectric medium. The exact solutions for some special Hamiltonians are given in terms of elliptic functions of the first kind.

Comments: 17 pages

Mathematical Physics (math-ph); Exactly Solvable and Subjects:

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