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On quantum solitons and their classical relatives: II. "Fermion-boson reciprocity" and classical vs quantum problem for the sine-Gordon system. (English) Zbl 0541.70030

J. Math. Phys. 22, 1272-1279 (1981).

[For part I see: the author, *ibid.* 22, 574-580 (1981; [Zbl 0466.70019](#))] - A correct classical limit is here shown to arise for the Heisenberg system: phase manifolds of the classical Heisenberg and sine-Gordon systems cannot be then viewed independently as a consequence of the quantum relation.

MSC:

70Sxx Classical field theories

81T17 Renormalization group methods applied to problems in quantum field theory

82B20 Lattice systems (Ising, dimer, Potts, etc.) and systems on graphs arising in equilibrium statistical mechanics

70G99 General models, approaches, and methods

Cited in 1 Document

Keywords:

correct classical limit; Heisenberg system; phase manifolds; classical Heisenberg and sine-Gordon systems

Full Text: [DOI](#)

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