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High Energy Physics - Theory

Swaying oscillons in the signum-Gordon model

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(Submitted on 16 Jun 2011)

We present a new class of oscillons in the (1+1)-dimensional signum-Gordon model. The oscillons periodically move to and fro in the space. They have finite total energy, finite size, and are strictly periodic in time. The corresponding solutions of the scalar field equation are explicitly constructed from the second order polynomials in the time and position coordinates.

Comments: 12 pages, 3 figures

Subjects: High Energy Physics - Theory (hep-th); Mathematical Physics (math-ph); Exactly

Solvable and Integrable Systems (nlin.SI)

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