



symmetry

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Symmetry in Integrable Systems: Theory and Application

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Message from the Guest Editor

Dear Colleagues,

Nonlinear partial differential equations are widely used to describe complex phenomena in various fields of science. Finding exact solutions for nonlinear differential equations has always been one of the central themes of perpetual interest in mathematics and physics. The use of symmetry reduction can be carried out using the classical Lie group approach, the nonclassical Lie group approach, and the Clarkson–Kruskal direct method, which are effective methods for obtaining exact solutions of nonlinear differential equations. The interactions between solitons and other different nonlinear excitation are obtained by symmetry reduction based on nonlocal symmetry.



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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