

New Exact Solutions and Localized Excitations in a (2+1)-Dimensional Soliton System

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Starting from a special conditional similarity reduction method, we obtain the reduction equation of the (2+1)-dimensional dispersive long-water wave system. Based on the reduction equation, some new exact solutions and abundant localized excitations are obtained.

Key words: Conditional Similarity Reduction Method; (2+1)-Dimensional Dispersive Long-Water Wave System; Exact Solutions; Localized Excitations.

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