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Nonlinear Sciences > Exactly Solvable and Integrable Systems

On some integrable lattice related by the Miura-type transformation to the Itoh-Narita-Bogoyavlenskii lattice

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We show that by Miura-type transformation the Itoh-Narita-Bogoyavlenskii lattice, for any $n \geq 1$, is related to some differential-difference (modified) equation. We present corresponding integrable hierarchies in its explicit form. We study the elementary Darboux transformation for modified equations.

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