

Lax Pairs for Integrable Six-Vertex Model with Color Parameters

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(Received: 2002-7-22; Revised:)

Abstract: Using the colored Yang-Baxter equation, the Lax pairs for the system with color parameters and periodic boundary conditions are derived. The explicit expressions of the Lax pairs for the six-vertex standard R matrices of both the Baxter and free-Fermion types are given.

PACS: 03.65.-w, 75.10.Jm

Key words: Lax pair, six-vertex model, Yang-Baxter equation, R-matrix

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