### Nonlinear Sciences > Exactly Solvable and Integrable Systems

# Jordanian deformation of the open XXXspin chain

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The general solution to the reflection equation associated with the jordanian deformation of the SL(2) invariant Yang R-matrix is found. The same K-matrix is obtained by the special scaling limit of the XXZmodel with general boundary conditions. The Hamiltonian with the boundary terms is explicitly derived according to the Sklyanin formalism. We discuss the structure of the spectrum of the deformed XXX-model and its dependence on the boundary conditions.

Comments: 13 pages; typos corrected

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