



Generalizations of Poisson Structures Related to Rational Gaudin Model

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Auteur	Gurevich, Dimitri [1], Roubtsov, Vladimir [2], Saponov, Pavel [3], Škoda, Zoran [4]
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Résumé en anglais	<p>The Poisson structure arising in the Hamiltonian approach to the rational Gaudin model looks very similar to the so-called modified Reflection Equation Algebra. Motivated by this analogy, we realize a braiding of the mentioned Poisson structure, i.e. we introduce a "braided Poisson" algebra associated with an involutive solution to the quantum Yang-Baxter equation. Also, we exhibit another generalization of the Gaudin type Poisson structure by replacing the first derivative in the current parameter, entering the so-called local form of this structure, by a higher order derivative. Finally, we introduce a structure, which combines both generalizations. Some commutative families in the corresponding braided Poisson algebra are found.</p>
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Liens

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