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## Lie algebras and Yang-Baxter equations

## Florin F. Nichita

(Submitted on 5 Jul 2011)

At the previous congress (CRM 6), we reviewed the construction of Yang-Baxter operators from associative algebras, and presented some (colored) bialgebras and Yang-Baxter systems related to them. The current talk deals with Yang-Baxter operators from (G, \theta)-Lie algebras (structures which unify the Lie algebras and the Lie superalgebras). Thus, we produce solutions for the constant and the spectral-parameter Yang-Baxter equations, Yang-Baxter systems, etc. Attempting to present the general framework we review the work of other authors and we propose problems, applications and directions of study.

Comments:Talk given at the 7-th Congress of the Romanian MathematiciansSubjects:Quantum Algebra (math.QA); High Energy Physics - Theory<br/>(hep-th)Cite as:arXiv:1107.0920 [math.QA]<br/>(or arXiv:1107.0920v1 [math.QA] for this version)

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