ROTA-BAXTER OPERATORS ON SOME LEFT-SYMMETRIC ALGEBRAS

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Abstract

We give Rota-Baxter operators on some 3 and 4-dimensional left-symmetric algebras ([D. Burde, Simple left-symmetric algebras with solvable Lie algebras, Manuscripta Math. 95 (2001), 395-408], [D. Burde, Left-symmetric algebras, or pre-Lie algebras in geometry and physics, Cent. Eur. J. Math 4 (2006), 323-357], [M. Guediri, On a remarkable class of left-symmetric algebras, preprint]).