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Toroidal braid group action and an automorphism of toroidal algebra $U_q(sl_{n+1,\mathbf{tor}})$ $(n \geqq 2)$. (English) Zbl 1022.17009

Lett. Math. Phys. 47, No. 4, 365-378 (1999).

From the text: Utilizing an action of a modification of the double affine Hecke braid group of type gl_n+1, we obtain an automorphism of the toroidal algebra $U_q(\mathrm{sl}_{n+1,\mathrm{tor}})$ $(n \geq 2)$ introduced by *V. Ginzburg, M. M. Kapranov* and *E. Vasserot* [Math. Res. Lett. 2, 147-160 (1995; Zbl 0914.11040)] and *M. Varagnolo* and *E. Vasserot* [Commun. Math. Phys. 182, 469-483 (1996; Zbl 0879.17007)].

MSC:

17B37 Quantum groups (quantized enveloping algebras) and related deformations

81R50 Quantum groups and related algebraic methods applied to problems in quantum theory

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