B. Enriquez, F. Gavarini, G. Halbout

“Uniqueness of braidings of quasitriangular Lie bialgebras and lifts of classical r–matrices”


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**ABSTRACT**

It is known that any quantization of a quasitriangular Lie bialgebra $\mathfrak{g}$ gives rise to a braiding on the dual Poisson-Lie formal group $G^*$. We show that this braiding always coincides with the Weinstein-Xu braiding. We show that this braiding is the “time one automorphism” of a Hamiltonian vector field, corresponding to a certain formal function on $G^* \times G^*$, the “lift of $r$”, which can be expressed in terms of $r$ by universal formulas. The lift of $r$ coincides with the classical limit of the rescaled logarithm of any $R$–matrix quantizing it.

**REFERENCES**


