Berenstein, Arkady; Greenstein, Jacob
Generalized Joseph’s decompositions. (Décompositions de Joseph généralisées.) (English. French summary) Zbl 1365.17005

Summary: We generalize the decomposition of $U_q(g)$ introduced by A. Joseph in [J. Reine Angew. Math. 507, 37–56 (1999; Zbl 0910.17003)] and link it, for $g$ semisimple, to the celebrated computation of central elements due to V. G. Drinfel’d [Leningr. Math. J. 1, No. 2, 321–342 (1990); translation from Algebra Anal. 1, No. 2, 30–46 (1989; Zbl 0718.16035)]. In that case, we construct a natural basis in the center of $U_q(g)$ whose elements behave as Schur polynomials and thus explicitly identify the center with the ring of symmetric functions.

MSC:
17B37 Quantum groups (quantized enveloping algebras) and related deformations
17B20 Simple, semisimple, reductive (super)algebras

Full Text: DOI arXiv

References:

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