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Titre: Generators for quantum finite W -algebras

Résumé: A major contribution to the theory of quantum finite W -algebras in type A comes from the work of J. Brundan and A. Kleshchev who, investigating the relationship between W -algebras and Yangians, achieved important results concerning both their structure and their representation theory. In this framework, for a quantum finite W -algebra in type A , A. De Sole, V. Kac and D. Valeri constructed a matrix of Yangian type $L(z)$ which encodes its generators and relations, generalizing results for classical affine W -algebras. We can then express $L(z)$ in a nicer and useful form, as a generalized quasideterminant of a certain matrix $W(z)$ which depends on the choice of the nilpotent element and of the grading on g . As a consequence, we will be able to provide explicitly a finite set of generators for the W -algebra, which moreover satisfy Premet's conditions. This is a joint work with A. De Sole and D. Valeri. Autour d'un exemple de résultats de stabilité pour des coefficients de branchement en théorie des représentations