

Algèbres non commutatives, théorie des représentations et fonctions
spéciales
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Non-commutative algebras, representation theory and special functions
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Odd Grassmannian bimodules

The monoidal category of Grassmannian bimodules played a key role in Khovanov and Lauda's discovery of Kac-Moody 2-categories. It is generated by certain bimodules defined by correspondences between neighboring Grassmannians. I will explain how to define the odd/super analog of this category, in which the ring of symmetric functions underlying the construction is replaced by the non-commutative ring of odd symmetric functions as developed by Ellis, Khovanov and Lauda. We (=my coauthor A. Kleshchev and I) use it to construct derived equivalences between blocks of spin symmetric groups in the spirit of Chuang-Rouquier.