

McKAY CORRESPONDENCE OF SEMISIMPLE HOPF ALGEBRA ACTIONS ON AS-REGULAR ALGEBRAS

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Abstract: Let H be a semisimple Hopf algebra, and let A be an AS-regular algebra. Assume H acts on A homogeneously. If the homological determinant of H is trivial, then certain equivalence between the category of the representations of the invariant subalgebra A^H and the category of the representations of the smash product $A \# H$ can be obtained from Auslander Theorem. If H acts on A as a reflection Hopf algebra (i.e. A^G has finite global dimension), then the McKay correspondence is missing. In this talk, I will report some progress on this direction. This talk is based on a joint work with E. Kirkman, R. Won, J.J. Zhang.