

1027-16-149

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We construct a functor from the stable homotopy theory of graded modules over a finite-dimensional quiver algebra to the derived category of its Yoneda algebra modulo finite complexes of modules of finite length. We show that if the algebra is Koszul with a noetherian Yoneda algebra, then the constructed functor is an equivalence. In the classical example of an exterior algebra, the stable homotopy theory specializes trivially to stable module theory, the target category becomes the derived category of coherent sheaves on a projective space, and we recover the Bernstein-Gelfand-Gelfand correspondence. This is joint work with R. Martínez Villa. (Received February 25, 2007)