

On Hochschild cohomology for tame symmetric algebras

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Let A be a finite-dimensional tame symmetric algebra. We would like to show that its Hochschild cohomology satisfies finite generation properties (known as (FG)), analogous to those in group cohomology. This was previously studied for a class of Brauer graph algebras. For these we computed an explicit bimodule resolution. In this lecture we discuss a new approach, by exploiting a recursion. This exists more generally, for Hybrid algebras, a large class of tame symmetric algebras (introduced in [ES], which unifies many known tame symmetric algebras).
[ES] K. Erdmann, A. Skowroński, Hybrid algebras, Math. Z. 306 (2024), no. 4, Paper No. 75.