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The Hochschild cohomology ring of a monomial algebra.

In this talk we describe the Hochschild cohomology ring modulo nilpotence of a finite-dimensional monomial algebra, showing that this quotient is finitely generated as an algebra. It was previously conjectured by Snashall and Solberg [Support varieties and Hochschild cohomology rings, Proc. London Math. Soc., to appear] that the Hochschild cohomology ring modulo nilpotence of a finite-dimensional algebra is always finitely generated as an algebra. Thus this conjecture has a positive answer for monomial algebras. (Received January 06, 2004)