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Hochschild cohomology ring of triangular monomial algebras

The cup product endows the Hochschild cohomology $HH^*(A)$ of an associative algebra A over a field k with a structure of graded commutative algebra. The description of this ring can be studied once the graded vector space $HH^*(A)$ is known. There are several examples of algebras for which this ring is completely characterized. Amongst them, for triangular string algebras, quadratic string algebras, Fibonacci algebras it is known to be trivial in positive degrees. We prove that the same result holds for triangular monomial algebras.

This is a result obtained in collaboration with Dalia Artenstein, Janina Letz and Amrei Oswald.