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The Hochschild cohomology algebra of an extension

We will consider the cup product for the Hochschild cohomology of an algebra with a zero squre ideal. The spectral sequence arising converges as a sequence of graded algebras. An algebra morphism is obtained from the cohomology algebra to the cohomology of the quotient. Applications are given by triangular algebras, one point extensions and skew one point extensions, providing results in relation to previous ones (Marcos, Green, Solberg, Snashall). This work is joint with Marcos, Solotar and Redondo.