

# Hochschild Cohomology of associative algebras

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## **Abstract**

The Hochschild Cohomology is an invariant attached to associative algebras which may help us to understand their structure and furthermore have applications in noncommutative geometry and representation theory, among other fields. It is possible to compute Hochschild Cohomology through projective resolution of the algebra as a bimodule over itself and we present some obtained results in recent years using these resolutions in the case of monomial algebras and associative algebras in the general case.