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*Hochschild cohomological criteria for the Gorenstein property for commutative algebras*

A classical result of Hochschild, Kostant, and Rosenberg characterizes smoothness of commutative algebras essentially of finite type over a field in terms of its Hochschild cohomology. I will discuss a similar characterization of the Gorenstein property.

This is joint work with L. L. Avramov.