

1100-18-120

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77843-3368. *Tate-Hochschild cohomology.*

I will present an overview of the Tate-Hochschild cohomology, which is a generalization of the ordinary Hochschild cohomology to negative degrees. We will discuss what is known, what has been done, and what could be done in this study. In particular, we will focus on results in finite group algebras and finite dimensional Hopf algebras. (Received February 04, 2014)