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Commutative cohomology in characteristic 2

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Abstract

Commutative cohomology is a cohomology of Lie algebras in characteristic 2, where alternating cochains are replaced by symmetric ones. This cohomology appears naturally in ongoing attempts to classify simple Lie algebras in characteristic 2, and has interesting properties resembling cohomology of Lie superalgebras (in any characteristic). In the absence of computational tools usual for the ordinary Lie algebra cohomology, most of the computations have a direct combinatorial character.

