

Separable deformations for a family of metacyclic group algebras

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Abstract

Given an algebra over a field k , a deformation of it, is a special kind of an algebra over $k((t))$ (the field of fractions of the power series ring over k). The J. D. Donald and F. J. Flanigan conjecture asserts that every group algebra has a separable deformation. In this talk, I will discuss about what has been done so far on this topic, and I will present a new infinite family of group algebras that fulfill the conjecture.