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Representations of modular skew group algebras.

Skew group algebras naturally generalize ordinary group algebras. Let A be a finite dimensional algebra and let G be a finite group whose elements acting on A as algebra automorphisms. It has been shown that the skew group algebra AG and A share many important properties (such as finite representation type, finite global dimension, etc) if the order of G is invertible. However, when the order of G is not invertible, many results fail. Therefore, it is natural to ask under what conditions AG and A still share these properties for arbitrary G . The answer of this question will be described in this talk. (Received August 11, 2013)