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Title: Absolutely indecomposable representations of a twisted group algebra of a finite p -group over a field of characteristic p

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Let G be a non-cyclic finite p -group and K an infinite field of characteristic p . For every 2-cocycle $\lambda \in Z^2(G, K^*)$ such that the twisted group algebra $K^\lambda G$ is not uniserial, we find the integers $m \geq 1$ for which $K^\lambda G$ has infinitely many absolutely indecomposable representations of dimension m . The main results of the paper imply a solution of the second Brauer–Thrall conjecture for the twisted group algebras $K^\lambda G$, under some assumption on G and K .

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