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A note on group algebras of p-primary abelian groups

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Abstract: Suppose p is a prime number and R is a commutative ring with unity of characteristic 0 in which p is not a unit. Assume that G and H are p-primary abelian groups such that the respective group algebras RG and RH are R-isomorphic. Under certain restrictions on the ideal structure of R, it is shown that G and H are isomorphic.

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