THE PERIODIC RADICAL OF GROUP RINGS
AND INCIDENCE ALGEBRAS

M. M. PARMENTER, E. SPIEGEL AND P. N. STEWART

Abstract. Let \( R \) be a ring with 1 and \( P(R) \) the periodic radical of \( R \). We obtain necessary and sufficient conditions for \( P(RG) = 0 \) when \( RG \) is the group ring of an FC group \( G \) and \( R \) is commutative. We also obtain a complete description of \( P(I(X,R)) \) when \( I(X,R) \) is the incidence algebra of a locally finite partially ordered set \( X \) and \( R \) is commutative.

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