Warfield Invariants in Abelian Group Rings

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ABSTRACT

Let $R$ be a perfect commutative unital ring without zero divisors of $\text{char}(R) = p$ and let $G$ be a multiplicative abelian group. Then the Warfield $p$-invariants of the normed unit group $V(RG)$ are computed only in terms of $R$ and $G$. These cardinal-to-ordinal functions, combined with the Ulm-Kaplansky $p$-invariants, completely determined the structure of $V(RG)$ whenever $G$ is a Warfield $p$-mixed group.

REFERENCES