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Título: Iwasawa Theory, Projective Modules, And Modular Representations

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This paper shows that properties of projective modules over a group ring $\mathbf{Z}_p[\Delta]$, where Δ is a finite Galois group, can be used to study the behavior of certain invariants which occur naturally in Iwasawa theory for an elliptic curve E . Modular representation theory for the group Δ plays a crucial role in this study. It is necessary to make a certain assumption about the vanishing of a μ -invariant. The author then studies λ -invariants $\lambda_E(\sigma)$, where σ varies over the absolutely irreducible representations of Δ . He shows that there are non-trivial relationships between these invariants under certain hypotheses.