

Homological theory of idempotent ideals via Igusa—Todorov function

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Let Λ be an artin algebra, and \mathfrak{A} an idempotent two-sided ideal of Λ . Then \mathfrak{A} is the trace of a projective Λ -module P in Λ . We study how the homological properties of the categories of finitely generated modules over the three rings Λ/\mathfrak{A} , Λ and $\Gamma = \text{End}_{\Lambda}(P)$ are related via Igusa—Todorov function. standard selfinjective algebra (using invariance of the Hochschild cohomologies under derived equivalence).

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