

IPM Workshop on

Representations of Artin Algebras, October 15-18, 2012 , IPM, Tehran, Iran

Relative Igusa-Todorov Function

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This is joint work with Javad Asadollahi and Changchang Xi. In my talk I will introduce a relative version of Igusa and Todorov function. Then as a application, we show that if M is a resolving module over an artin algebra Λ with $rep.dim\Lambda \leq 3$, then $\Gamma = \text{End}_{\Lambda}(M)^{op}$ is of finitistic dimension.