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Nakayama Algebras which are Defect Invariant

(Joint work: Emre Sen, Shijie Zhu, GT)

It was very beautiful idea of Emre Sen to consider "syzygy filtrations" and create epsilon construction which he used to prove several homological statements about Nakayama algebras: about φ -dimension, Gorenstein dimension, finitistic dimension. Now, in this joint work we consider the process of reversing epsilon construction, while preserving the defect of the algebras; we apply this to give complete classification of Nakayama algebras which are Auslander-Gorenstein and finitistic Auslander algebras.