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Emre Sen* (sen.e@husky.neu.edu), Boston, MA. *φ dimension of cyclic Nakayama algebras.*

Igusa and Todorov introduced φ function which generalizes the notion of projective dimension. We study the behavior of the φ functions for cyclic Nakayama algebras of infinite global dimension. We prove that it is always an even number. In particular we show that φ dimension is 2 if and only if algebra satisfies certain symmetry conditions. (Received July 24, 2017)