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Hilbert Function and μ-generic Artin Algebras

Abstract: Suppose R is a polynomial ring in n variables and I is a homogeneous ideal of height n in R so that R/I is an Artin Algebra. Let $\mu(I)$ denote the minimum number of generators for I.

If the Hilbert function of R/I is of the form $(1,n,\binom{n}{2}+1,\ldots,n,1)$ then there are n quadratic generators of I. Suppose these generators generate an ideal I_2 of height 1. Then we show that there is an upper bound for the number of generators of I in terms of I and a Gorenstein ideal I with embedding dimension I we say an ideal I is I generic if I has this upper bound. We give some criterion when this is achieved and some consequences for the Unmorality of Hilbert functions for a class of co-dimension three Artin algebras.

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