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Andrew Kustin, Janet Striuli and Adela Vraciu* (vraciu@math.sc.edu). *Exact pairs of homogeneous zero divisors and Hilbert functions.*

Let S be a standard graded Artinian algebra over a field. We identify constraints on the Hilbert function of S which are imposed by the existence of a pair of homogeneous exact zero divisors. The main numerical constraint we find depends only on the sum of the degrees of the homogeneous exact zero divisors in the pair. (Received September 10, 2012)