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Duality for Koszul homology over Gorenstein rings

Over a Gorenstein ring, if an ideal satisfies the property that all its nonzero Koszul homologies are Cohen-Macaulay, then by a classical result, due to Herzog, the Koszul homology algebra satisfies Poincaré duality. We will discuss a slightly weaker version of this duality that holds for all ideals of a Gorenstein. We will also give some applications of this duality. This is joint work with Claudia Miller and Janet Striuli.