

Gorenstein Liaison and ACM Sheaves

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Abstract

We study Gorenstein liaison of codimension two subschemes of an arithmetically Gorenstein scheme X . Our main result is a criterion for two such subschemes to be in the same Gorenstein liaison class, in terms of the category of ACM sheaves on X . As a consequence we obtain a criterion for X to have the property that every codimension 2 arithmetically Cohen-Macaulay subscheme is in the Gorenstein liaison class of a complete intersection. Using these tools we prove that every arithmetically Gorenstein subscheme of $\mathbb{P}^n$ is in the Gorenstein liaison class of a complete intersection and we are able to characterize the Gorenstein liaison classes of curves on a nonsingular quadric threefold in $\mathbb{P}^4$.

Keywords: linkage, liaison, biliaison, Gorenstein scheme, maximal Cohen-Macaulay modules

0 Introduction

Liaison using complete intersection schemes has been widely studied since the seminal paper of Peskine and Szpiro [19]. More recently the notion of liaison by arithmetically Gorenstein schemes, introduced by Schenzel [22], has assumed a prominent role in the study of subschemes of codimension at least three in $\mathbb{P}^n$ [13]. The growing literature in this subject is surveyed in the book [15] and the recent article [16] of Migliore and Nagel.

While most of the work on liaison has focused on subschemes of projective space $\mathbb{P}^n$, there are some results on other ambient varieties. Rao remarks already in [21] that the so-called “Rao correspondence” (see (2.16) below) holds on an arithmetically Gorenstein scheme, and Bolondi and Migliore [1] establish the Lazarsfeld–Rao property on a smooth arithmetically Gorenstein scheme. Both of these results use complete intersection linkage in codimension two. Nagel [17] obtains similar results from a slightly different point of view. The recent paper [5] puts the Rao correspondence and the Lazarsfeld–Rao property in its most general

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