

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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Table of Contents Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness

1. Understanding the eBook Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - The Rise of Digital Reading Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Advantages of eBooks Over Traditional Books
2. Identifying Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness

- Personalized Recommendations
- Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness User Reviews and Ratings
- Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness and Bestseller Lists
- 5. Accessing Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness Free and Paid eBooks
 - Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness Public Domain eBooks
 - Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness eBook Subscription Services
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- 6. Navigating Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness eBook Formats
 - ePub, PDF, MOBI, and More
 - Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness Compatibility with Devices
 - Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Highlighting and Note-Taking Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Interactive Elements Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
- 8. Staying Engaged with Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
- 9. Balancing eBooks and Physical Books Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time

11. Cultivating a Reading Routine Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Setting Reading Goals Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Fact-Checking eBook Content of Gorenstein Liaison Complete Intersection Liaison Invariants And Unobstructedness
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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