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Adam Van Tuyl

Arithmetically Cohen-Macaulay Sets of Points in $\mathbb{P}^1 \times \mathbb{P}^1$

Arithmetically Cohen Macaulay Points Springerbriefs Mathematics

Elena Guardo, Adam Van Tuyl



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Arithmetically Cohen-Macaulay Sets of Points in $P^1 \times P^1$ Elena Guardo, Adam Van Tuyl, 2015-11-25 This brief presents a solution to the interpolation problem for arithmetically Cohen Macaulay ACM sets of points in the multiprojective space $P^1 \times P^1$ It collects the various current threads in the literature on this topic with the aim of providing a self contained unified introduction while also advancing some new ideas The relevant constructions related to multiprojective spaces are reviewed first followed by the basic properties of points in $P^1 \times P^1$ the bigraded Hilbert function and ACM sets of points The authors then show how using a combinatorial description of ACM points in $P^1 \times P^1$ the bigraded Hilbert function can be computed and as a result solve the interpolation problem In subsequent chapters they consider fat points and double points in $P^1 \times P^1$ and demonstrate how to use their results to answer questions and problems of interest in commutative algebra Throughout the book chapters end with a brief historical overview citations of related results and where relevant open questions that may inspire future research Graduate students and researchers working in algebraic geometry and commutative algebra will find this book to be a valuable contribution to the literature

Arithmetically Cohen-Macaulay Sets of Points in $P^1 \times P^1$ Elena Guardo, Adam Van Tuyl, 2015

Commutative Algebra Irena Peeva, 2022-02-18 This contributed volume is a follow up to the 2013 volume of the same title published in honor of noted Algebraist David Eisenbud's 65th birthday It brings together the highest quality expository papers written by leaders and talented junior mathematicians in the field of Commutative Algebra Contributions cover a very wide range of topics including core areas in Commutative Algebra and also relations to Algebraic Geometry Category Theory Combinatorics Computational Algebra Homological Algebra Hyperplane Arrangements and Non commutative Algebra The book aims to showcase the area and aid junior mathematicians and researchers who are new to the field in broadening their background and gaining a deeper understanding of the current research in this area Exciting developments are surveyed and many open problems are discussed with the aspiration to inspire the readers and foster further research

Hadamard Products of Projective Varieties Cristiano Bocci, Enrico Carlini, 2024-03-27 This monograph deals with the Hadamard products of algebraic varieties A typical subject of study in Algebraic Geometry are varieties constructed from other geometrical objects The most well known example is constituted by the secant varieties which are obtained through the construction of the join of two algebraic varieties which in turn is based on the operation of summing two vectors However other constructions are possible through a change of the basic operation One remarkable case is based on the Hadamard product of two vectors While secant varieties of algebraic varieties have been studied extensively and systematically the same is not yet true for the Hadamard products of algebraic varieties This monograph aims to bridge this gap in the literature The topic is presented in a self contained manner and it is accessible to all readers with sound knowledge of Commutative Algebra and Algebraic Geometry Both experienced researchers and students can profit from this monograph which will guide them through the subject The foundational aspects of the Hadamard products of

algebraic varieties are covered and some connections both within and outside Algebraic Geometry are presented. The theoretical and algorithmic aspects of the subject are considered to demonstrate the effectiveness of the results presented. Thus this monograph will also be useful to researchers in other fields such as Algebraic Statistics since it provides several algebraic and geometric results on such products.

Cohen-Macaulay Representations Graham J. Leuschke, Roger Wiegand, 2012-01-01

Point-Counting and the Zilber-Pink Conjecture Jonathan Pila, 2022-06-09

Point counting results for sets in real Euclidean space have found remarkable applications to diophantine geometry enabling significant progress on the Andr Oort and Zilber Pink conjectures. The results combine ideas close to transcendence theory with the strong tameness properties of sets that are definable in an o-minimal structure and thus the material treated connects ideas in model theory, transcendence theory and arithmetic. This book describes the counting results and their applications along with their model theoretic and transcendence connections. Core results are presented in detail to demonstrate the flexibility of the method while wider developments are described in order to illustrate the breadth of the diophantine conjectures and to highlight key arithmetical ingredients. The underlying ideas are elementary and most of the book can be read with only a basic familiarity with number theory and complex algebraic geometry. It serves as an introduction for postgraduate students and researchers to the main ideas, results, problems and themes of current research in this area.

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