
Enumerative Algebraic Geometry of Conics

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1. INTRODUCTION. In 1848 Jakob Steiner, professor of geometry at the University of Berlin, posed the following problem [19]: Given five conics in the plane, are there any conics that are tangent to all five? If so, how many are there? Problems that ask for the number of geometric objects with given properties are known as enumerative problems in algebraic geometry. The tools developed to solve these problems have been used in many other situations and reveal deep and beautiful geometric phenomena.

In this expository paper, we describe the solutions to several enumerative problems involving conics, including Steiner's problem. The results and techniques presented here are not new; rather, we use these problems to introduce and demonstrate several of the key ideas and tools of algebraic geometry. The problems we discuss are the following: Given p points, l lines, and c conics in the plane, how many conics are there that contain the given points, are tangent to the given lines, and are tangent to the given conics? It is not even clear *a priori* that these questions are well-posed. The answers may depend on which points, lines, and conics we are given. Nineteenth and twentieth century geometers struggled to make sense of these questions, to show that with the proper interpretation they admit clean answers, and to put the subject of enumerative algebraic geometry on a firm mathematical foundation. Indeed, Hilbert made this endeavor the subject of his fifteenth challenge problem.

Enumerative problems have a long history: many such problems were posed by the ancient Greeks. Enumerative geometry is also currently one of the most active areas of research in algebraic geometry, mainly due to a recent influx of ideas from string theory. For instance, mirror symmetry and Gromov-Witten theory are two hot mathematical topics linked to enumerative geometry; both areas developed rapidly because of their connection to theoretical physics. While we will not discuss these subjects explicitly in the main part of this paper, many of the ideas and techniques we introduce are fundamental to these more advanced topics.

In the next section we give basic definitions of what we mean by a "conic," and introduce a **moduli space** of all conics. For each condition imposed on the conics we are counting, there is a subset of the moduli space consisting of the conics that satisfy this condition. To find the conics satisfying all of the given conditions, we intersect the corresponding subsets. If this intersection consists of a finite number of points, this number is our answer. In section 3 we will carry out this computation in several examples, each of which leads to some key ideas.

Steiner's original answer to his problem, 7776, was incorrect. He probably made the mistake of assuming that the intersection of the five subsets corresponding to the five given conics was finite. In fact, it is not finite, which we show in section 4. The infinite component of the intersection consists of **double lines**, conics whose equation is the square of a linear equation. If we can remove these, we will be left with a finite number of points corresponding to ellipses, hyperbolas, and parabolas. The first to successfully remove the double lines and count the remaining points was the French naval officer de Jonquieres [18, p. 469], who in 1859 gave the correct answer to Steiner's problem, 3264. Later, Michel Chasles developed a method for determining the answer 3264 and solving many other similar problems [19]. In section 4 we introduce the duality of the

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Enumerative Algebraic Geometry Steven L. Kleiman, Anders Thorup, 1991-01-01 1989 marked the 150th anniversary of the birth of the great Danish mathematician Hieronymus George Zeuthen Zeuthen's name is known to every algebraic geometer because of his discovery of a basic invariant of surfaces However he also did fundamental research in intersection theory enumerative geometry and the projective geometry of curves and surfaces Zeuthen's extraordinary devotion to his subject his characteristic depth thoroughness and clarity of thought and his precise and succinct writing style are truly inspiring During the past ten years or so algebraic geometers have reexamined Zeuthen's work drawing from it inspiration and new directions for development in the field The 1989 Zeuthen Symposium held in the summer of 1989 at the Mathematical Institute of the University of Copenhagen provided a historic opportunity for mathematicians to gather and examine those areas in contemporary mathematical research which have evolved from Zeuthen's fruitful ideas This volume containing papers presented during the symposium as well as others inspired by it illuminates some currently active areas of research in enumerative algebraic geometry Algebraic Geometry Spencer Bloch, Charles Herbert Clemens, American Mathematical Society, 1987 **Enumerative Geometry and Classical Algebraic Geometry** Lebarz, Hervier, 2012-12-06 Ce volume u t fioJtme de la Ve M ion de6 ve du te x tu du cOn6Vte n cV6 fia i tu a N ice au cowu d un CoUoque qu i f Ij u t te n u du 23 au 27 Ju in 1981 Comme le f ugge lLe Mn e le f uje t volon t e me n t ILU t fLe in t g fLav i ta i t g iLof f o modo au toull du upacu p iLoje c t i6f de pe t i te d ime n f ion e t du co UfLbe f ce la f UfL un CO fLpf aigeb fL ique me n t elM li f e mble que ce cho ix deUbVte a i t Ue b ie n accu danf I e nf e mble pM lu pa Jt ttupan t f Le Colloque a IL LMe mble une M ixan ta in e de f peu tu ve n uf de d i66e lLe n t f palj f e t nouf noUf f ommu e n pa Jt ttcuUe fL lLejo de l im pofL tan te pa Jt ttc ipatio n de nof vo inf i taUe nf Le p iL06Uf e UfL VIEuVONNE n aljaYt t paf pu pa Jt ttupe fL au colloque **Enumerative Geometry and Classical Algebraic Geometry** Patrick Le Barz, 1982 Enumerative Geometry and Classical Algebraic Geometry 3Island Press, 1982-01-01 Proceedings of the 1984 Vancouver Conference in Algebraic Geometry James B. Carrell, A. V. Geramita, Peter Russell, Natural Sciences and Engineering Research Council Canada, University of British Columbia, 1986 Covers a cross section of the developments in modern algebraic geometry This work covers topics including algebraic groups and representation theory enumerative geometry Schubert varieties rationality compactifications and surfaces Algebraic Geometry. Sundance 1986 Audun Holme, Robert Speiser, 2006-11-14 This volume presents selected papers resulting from the meeting at Sundance on enumerative algebraic geometry The papers are original research articles and concentrate on the underlying geometry of the subject *An Invitation to Modern Enumerative Geometry* Andrea T. Ricolfi, 2022-11-17 This book is based on a series of lectures given by the author at SISSA Trieste within the PhD courses Techniques in enumerative geometry 2019 and Localisation in enumerative geometry 2021 The goal of this book is to provide a gentle introduction aimed mainly at graduate students to the fast growing subject of enumerative geometry and more specifically counting

invariants in algebraic geometry In addition to the more advanced techniques explained and applied in full detail to concrete calculations the book contains the proofs of several background results important for the foundations of the theory In this respect this text is conceived for PhD students or research beginners in the field of enumerative geometry or related areas This book can be read as an introduction to Hilbert schemes and Quot schemes on 3 folds but also as an introduction to localisation formulae in enumerative geometry It is meant to be accessible without a strong background in algebraic geometry however three appendices one on deformation theory one on intersection theory one on virtual fundamental classes are meant to help the reader dive deeper into the main material of the book and to make the text itself as self contained as possible

Algebraic Geometry: Sundance 1988 Brian Harbourne, 1991 This volume contains the proceedings of the NSF CBMS Regional Conference on Algebraic Geometry held in Sundance Utah in July 1988 The conference focused on algebraic curves and related varieties Some of the papers collected here represent lectures delivered at the conference some report on research done during the conference while others describe related work carried out elsewhere

Algorithms in Algebraic Geometry Alicia Dickenstein, Frank-Olaf Schreyer, Andrew J. Sommese, 2010-07-10 In the last decade there has been a burgeoning of activity in the design and implementation of algorithms for algebraic geometric computation The workshop on Algorithms in Algebraic Geometry that was held in the framework of the IMA Annual Program Year in Applications of Algebraic Geometry by the Institute for Mathematics and Its Applications on September 2006 is one tangible indication of the interest This volume of articles captures some of the spirit of the IMA workshop

Complex Analysis and Algebraic Geometry Thomas Peternell, Frank-Olaf Schreyer, 2016-12-19 No detailed description available for Complex Analysis and Algebraic Geometry

Facets of Algebraic Geometry: Volume 2 Paolo Aluffi, David Anderson, Milena Hering, Mircea Mustață, Sam Payne, 2022-04-07 Written to honor the 80th birthday of William Fulton the articles collected in this volume the second of a pair present substantial contributions to algebraic geometry and related fields with an emphasis on combinatorial algebraic geometry and intersection theory Featured include commutative algebra moduli spaces quantum cohomology representation theory Schubert calculus and toric and tropical geometry The range of these contributions is a testament to the breadth and depth of Fulton's mathematical influence The authors are all internationally recognized experts and include well established researchers as well as rising stars of a new generation of mathematicians The text aims to stimulate progress and provide inspiration to graduate students and researchers in the field

Algorithmic and Quantitative Real Algebraic Geometry Saugata Basu, Laureano González-Vega, 2003-01-01 Algorithmic and quantitative aspects in real algebraic geometry are becoming increasingly important areas of research because of their roles in other areas of mathematics and computer science The papers in this volume collectively span several different areas of current research The articles are based on talks given at the DIMACS Workshop on Algorithmic and Quantitative Aspects of Real Algebraic Geometry Topics include deciding basic algebraic properties of real semi algebraic sets application of quantitative results in

real algebraic geometry towards investigating the computational complexity of various problems algorithmic and quantitative questions in real enumerative geometry new approaches towards solving decision problems in semi algebraic geometry as well as computing algebraic certificates and applications of real algebraic geometry to concrete problems arising in robotics and computer graphics The book is intended for researchers interested in computational methods in algebra

Algebraic Geometry - Open Problems C. Ciliberto, F. Ghione, F. Orecchia, 2006-11-15 **Singularity Theory and its Applications** David Mond, James Montaldi, 2006-11-14 A workshop on Singularities Bifurcation and Dynamics was held at Warwick in July 1989 as part of a year long symposium on Singularity Theory and its applications The proceedings fall into two halves Volume I mainly on connections with algebraic geometry and volume II on connections with dynamical systems theory bifurcation theory and applications in the sciences The papers are original research stimulated by the symposium and workshops All have been refereed and none will appear elsewhere The main topic deformation theory is represented by several papers on descriptions of the bases of versal deformations and several more on descriptions of the generic fibres Other topics include stratifications and applications to differential geometry First European Congress of Mathematics Paris, July 6-10, 1992 Anthony Joseph, Fulbert Mignot, Francois Murat, Bernard Prum, Rudolf Rentschler, 2012-12-06 Table of Contents D Duffie Martingales Arbitrage and Portfolio Choice J Fr hlich Mathematical Aspects of the Quantum Hall Effect M Giaquinta Analytic and Geometric Aspects of Variational Problems for Vector Valued Mappings U Hamenst dt Harmonic Measures for Leafwise Elliptic Operators Along Foliations M Kontsevich Feynman Diagrams and Low Dimensional Topology S B Kuksin KAM Theory for Partial Differential Equations M Laczkovich Paradoxical Decompositions A Survey of Recent Results J F Le Gall A Path Valued Markov Process and its Connections with Partial Differential Equations I Madsen The Cyclotomic Trace in Algebraic K Theory A S Merkurjev Algebraic K Theory and Galois Cohomology J Nekov r Values of L Functions and p Adic Cohomology Y A Neretin Mantles Trains and Representations of Infinite Dimensional Groups M A Nowak The Evolutionary Dynamics of HIV Infections R Piene On the Enumeration of Algebraic Curves from Circles to Instantons A Quarteroni Mathematical Aspects of Domain Decomposition Methods A Schrijver Paths in Graphs and Curves on Surfaces B Silverman Function Estimation and Functional Data Analysis V Strassen Algebra and Complexity P Tukia Generalizations of Fuchsian and Kleinian Groups C Viterbo Properties of Embedded Lagrange Manifolds D Voiculescu Alternative Entropies in Operator Algebras M Wodzicki Algebraic K Theory and Functional Analysis D Zagier Values of Zeta Functions and Their Applications Tropical Algebraic Geometry Ilia Itenberg, Grigory Mikhalkin, Eugeni I. Shustin, 2009-05-30 These notes present a polished introduction to tropical geometry and contain some applications of this rapidly developing and attractive subject It consists of three chapters which complete each other and give a possibility for non specialists to make the first steps in the subject which is not yet well represented in the literature The notes are based on a seminar at the Mathematical Research Center in Oberwolfach in October 2004 The intended audience is graduate post

graduate and Ph D students as well as established researchers in mathematics *Hilbert Schemes of Zero-Dimensional Subschemes of Smooth Varieties* Lothar Göttsche, 2006-11-15 In this book we study Hilbert schemes of zero dimensional subschemes of smooth varieties and several related parameter varieties of interest in enumerative geometry The main aim here is to describe their cohomology and Chow rings Some enumerative applications are also given The Weil conjectures are used to compute the Betti numbers of many of the varieties considered thus also illustrating how this powerful tool can be applied The book is essentially self contained assuming only a basic knowledge of algebraic geometry it is intended both for graduate students and research mathematicians interested in Hilbert schemes enumerative geometry and moduli spaces

Tropical Algebraic Geometry Il'ia Vladimirovich Itenberg, Grigory Mikhalkin, Eugenii Shustin, 2007 Tropical geometry is algebraic geometry over the semifield of tropical numbers i e the real numbers and negative infinity enhanced with the max arithmetics Geometrically tropical varieties are much simpler than their classical counterparts Yet they carry information about complex and real varieties These notes present an introduction to tropical geometry and contain some applications of this rapidly developing and attractive subject It consists of three chapters which complete each other and give a possibility for non specialists to make the first steps in the subject which is not yet well represented in the literature The intended audience is graduate post graduate and Ph D students as well as established researchers in mathematics

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