

theta-characteristics on algebraic curves - theta-characteristics on algebraic curves by joe harris¹ abstract. the theory of theta-characteristics is developed algebraically, so that it may be applied to possibly singular and/or reducible algebraic curves. the configuration of theta-characteristics on a curve is described in terms of its singularities, with applications to the geometry of plane quartic curves and the problem of ...

classical algebraic geometry: a modern view - mathematics - classical algebraic geometry: a modern view igor v. dolgachev. preface the main purpose of the present treatise is to give an account of some of the topics in algebraic geometry which while having occupied the minds of many mathematicians in previous generations have fallen out of fashion in modern times. often in the history of mathematics new ideas and techniques make the work of previous ...

classical algebraic geometry - assets - particular, the rich legacy of classical algebraic geometry, such as plane algebraic curves of low degree, special algebraic surfaces, theta functions, cremona transformations, the theory of apolarity and the geometry of lines in projective spaces.

geometry of theta divisors “ a survey arxiv:1204.2734v2 ... - abelian varieties are important objects in algebraic geometry. by the Torelli theorem, the jacobian of a curve and its theta divisor encode all properties of the curve itself. it is thus a natural idea to study curves through their jacobians. at the same time, one is led to the question of determining which (principally polarized) abelian varieties are in fact jacobians, a problem which became ...

algebraic invariants arising from the chromatic ... - a generalised theta graph where the vertices are replaced by cliques and edges are replaced by all possible edges between adjacent cliques. the $\chi_{\text{alg}}(n) \sim n^{\frac{1}{2}}$ -conjecture predicts that for every algebraic integer z there exists

applications of convex and algebraic geometry to graphs ... - applications of convex and algebraic geometry to graphs and polytopes by mohamed omar bth. (university of waterloo) 2006 mth. (university of waterloo) 2007 dissertation submitted in partial satisfaction of the requirements for the degree of doctor of philosophy in mathematics in the office of graduate studies of the university of california davis approved: jesus de loera brian osserman ...

elliptic curves “ an introduction - concepts from complex algebraic geometry which allow a geometric understanding of the group structure introduced in the first talk. a brief introduction is given to complex manifolds, vector bundles on them and the picard group (the group of all line bundles). moreover the relationship between line bundles and divisors on a curve is explained, which allows a better understanding of the group ...

different viewpoints on multiplier ideal sheaves and ... - those divisors are of surprising importance in algebraic geometry. the story starts with a discovery that the theta divisor on the jacobian of a curve can be used to study the geometry of the curve itself.

tata lectures on theta ii - applied mathematics - chapter iii jacobian theta functions and differential equations introduction iii.a: an elementary construction of hermitian jacobians ix §0. review of background in algebraic geometry 3.1

on machine learning applications with algebraic geometry - on machine learning applications with algebraic geometry g. r. sasikanth gunaatita technologies, data science research - india (dated:

december 29, 2015) in this article, we briefly describe various tools and approaches that algebraic geometry has to offer to straighten bent objects. throughout this article we will consider a specific example of a bent or curved piece of paper which in our case ...

galois representations and theta operators for siegel ... - preface this thesis expects no more background than could be reasonably acquired through some introductory material on algebraic geometry, galois theory

vector bundles on curves and generalized theta functions ... - complex algebraic geometry msri publications volume 28, 1995 vector bundles on curves and generalized theta functions: recent results and open problems

arithmetic deformation theory via algebraic fundamental ... - geometry to provide new proofs and stronger versions, as well as a better understanding, of such results in diophantine geometry as the faltings "mordell theorem, cf.1.5. 2 the first version of [3] and belyi's seminar talk in moscow dealt with an elliptic curve, which was enough for its subsequent

abelian varieties, theta functions and the fourier transform - abelian varieties, theta functions and the fourier transform thisbookisamodernintroductiontothetheoryofabelianvarietiesandtheta functions ...

the algebraic and geometric theory of quadratic forms - the powerful approach using algebraic geometry has been the last to be developed. this volume attempts to show its usefulness. the theory of quadratic forms lay dormant until the work of cassels and then

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