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## Codes Algebraic Curves Stepanov Serguei

**codes on algebraic curves - springer** - codes on algebraic curves . codes on algebraic curves serguei a. stepanov bilkent university ankara, turkey and steklov mathematical institute ... goppa codes and the production of asymptotically good linear codes coming from algebraic curves over finite fields (part iv). **codes on algebraic curves - gbv** - codes on algebraic curves serguei a. stepanov bilkent university ankara, turkey and steklov mathematical institute moscow, russia kluwer academic / plenum publishers **codes on algebraic curves - iopunouww.updog** - by serguei a. stepanov : codes on algebraic curves a fascinating branch of mathematics since antiquity the geometry of curves has been extensively developed and become highly abstract recently links have been made codes **gröbner bases, coding, and cryptography: a guide to the ...** - algebraic coding theory and probabilistic coding theory. the rationale behind the (apparently unnatural) introduction of algebra is that it is very difficult to predict (or even to estimate) the performance of codes constructed and decoded in a probabilis- **math 71091 algebraic curves and codes spring 2015 contact info** - 2 math 71091 algebraic curves and codes spring 2015 here are some textbooks that could be useful: algebraic geometric codes: basic notions by tsfasman, vladut, and nogin codes on algebraic curves by stepanov codes and algebraic curves by pretzel theory of error-correcting codes by mac williams and sloane introduction to coding theory by van ... **algebraic geometric codes: basic notions - ams** - function fields and algebraic curves 126 historical and bibliographic notes 131 chapter 3. curves over finite fields 133 3.1. zeta function 133 3.1.1. definition and rationality 134 ... algebraic geometry codes 191 4.1. constructions and properties 191 4.1.1. basic algebraic geometry constructions and their parameters 192 4.1.2. duality and ... **math 593 algebraic coding theory spring 2012 - course ...** - course description: the course is an introduction to the theory of algebraic curves and its application to error-correcting codes. in the algebraic curves part our main goal will be to understand the riemann-roch theorem and results on the number of rational points on curves over finite fields. **algebraic curves with many points over finite fields - unicamp** - algebraic curves with many points over finite fields ... advances in algebraic geometry codes series on coding theory and cryptology world scientific home, 2008, 221-256. ... gave an elementary proof of the hwbound by following ideas of stepanov, postnikov, stark and manin; his proof uses the riemann-roch theorem only. now, once ... **minimum distance of such codes and explicitly count their ...** - in some relevant cases (e.g., for codes from norm-trace curves) the dual minimum-weight codewords of such codes are characterized by the intersections of the underlying curve with lines and conics in the plane. we describe a geometric method to determine the dual ... s. a. stepanov, codes on algebraic curves . springer, 1999. [15] h ... **codes on fibre products of artin-schreier and kummer ...** - codes on fibre products of artin-schreier and kummer coverings of the projective line mahmoud shalalfeh ph.d. in mathematics supervisor: prof. dr. serguei a. stepanov august, 2002 in this thesis, we study smooth projective absolutely irreducible curves defined over finite fields by fibre products of artin-schreier and kummer coverings of the ... ,Γ\*Γ /“a” Λ 1 •’^\* ^Γ;: !^ “5 - **core** - algebraic curves, algebraic function fields, linear codes and character sums the purpose of this chapter is to recall some of the fundamental definitions and relations. for further details see [44], [45], [50], [54], [23], and [24]. 1.1 algebraic curves and algebraic function fields let  $k$  be an algebraically closed field. **ii universit' a degli studi di roma - university of arizona** - we will use, but not prove the riemann-roch theorem for algebraic curves. we will discuss the goppa-codes that can be constructed by means of algebraic curves over finite fields in section 4. it appears that curves over a finite field  $F_q$  that have many points over  $F_q$  with respect to their genus, give rise to good codes. **counting curves over finite fields - gerard.vdgeer** - but although galois introduced finite fields in 1830 and algebraic curves were one of the main notions in 19th century mathematics, one had to wait till the beginning ... though there was progress. in 1969 stepanov showed a new approach in [48] ... construct good codes by evaluating meromorphic functions on a subset of the points of the **counting zeros over finite fields using gr obner bases** - in coding theory, for the design of algebraic-geometric codes such as goppa codes, curves with a large number of rational points are needed, hence methods solving the counting problem are desirable [31]. in several primality testing algorithms, counting the number of points on elliptic curves [16] and hyperelliptic curves [1] over finite fields is

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