

# Algebraic Geometry Codes

94B27, 94B40

- [1] Daniel Augot and Lancelot Pecquet, *A Hensel lifting to replace factorization in list-decoding of algebraic-geometric and Reed-Solomon codes*, IEEE Trans. Inform. Theory **46** (2000), no. 7, 2605–2614. MR MR1806819 (2001m:94061)
- [2] Peter Beelen, *The order bound for general algebraic geometric codes*, Finite Fields Appl. **13** (2007), no. 3, 665–680. MR MR2332494
- [3] Daniel Bierbrauer, *Codes auf hyperelliptischen und trigonalen kurven*, Ph.D. thesis, Ruprecht-Karls-Universität Heidelberg, July 2006, p. 129.
- [4] Grégoire Bommier and Francis Blanchet, *Binary quasi-cyclic Goppa codes*, Des. Codes Cryptogr. **20** (2000), no. 2, 107–124. MR MR1774118 (2002b:94044)
- [5] Chien-Yu Chen and Iwan M. Duursma, *Geometric Reed-Solomon codes of length 64 and 65 over  $F_8$* , IEEE Trans. Inform. Theory **49** (2003), no. 5, 1351–1353. MR MR1984834
- [6] K. L. Clark and J. D. Key, *Geometric codes over fields of odd prime power order*, Proceedings of the Thirtieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing (Boca Raton, FL, 1999), vol. 137, 1999, pp. 177–186. MR MR1744201 (2000k:94053)
- [7] Jennifer A. Davis, *Algebraic geometric codes on anticanonical surfaces*, Ph.D. thesis, University of Nebraska, 2007.
- [8] Cunsheng Ding, David R. Kohel, and San Ling, *Split group codes*, IEEE Trans. Inform. Theory **46** (2000), no. 2, 485–495. MR MR1748983 (2001d:94040)
- [9] Cunsheng Ding, Harald Niederreiter, and Chaoping Xing, *Some new codes from algebraic curves*, IEEE Trans. Inform. Theory **46** (2000), no. 7, 2638–2642. MR MR1806824 (2001j:94048)
- [10] Giorgio Faina and Massimo Giulietti, *Decoding Goppa codes with Magma*, Ars Combin. **61** (2001), 221–232. MR MR1863382
- [11] Majid Farhadi and Marc Perret, *Twisting geometric codes*, Finite Fields Appl. **14** (2008), no. 4, 1091–1100. MR MR2457549

- [12] C. Guneri and F. Ozbudak, *Weil-Serre type bounds for cyclic codes*, IEEE Transactions on Information Theory **54** (2008), no. 12, 5381–5395.
- [13] Cem Güneri, Henning Stichtenoth, and Ihsan Taşkın, *Further improvements on the designed minimum distance of algebraic geometry codes*, J. Pure Appl. Algebra **213** (2009), no. 1, 87–97. MR MR2462987
- [14] Johan P. Hansen, *Toric surfaces and codes, techniques and examples*, 2004.
- [15] Nathan Owen Ilten and Hendrik Süß, *AG codes from polyhedral divisors*, 2008.
- [16] David Joyner, *Toric codes over finite fields*, Appl. Algebra Engrg. Comm. Comput. **15** (2004), no. 1, 63–79. MR MR2142431
- [17] David Joyner and Amy Ksir, *Automorphism groups of some AG codes*, IEEE Trans. Inform. Theory **52** (2006), no. 7, 3325–3329. MR MR2240022 (2007c:94280)
- [18] David Joyner and Salahoddin Shokranian, *Remarks on codes from modular curves: Magma application*, 2004.
- [19] Hans-Joachim Kroll and Rita Vincenti, *PD-sets for binary RM-codes and the codes related to the Klein quadric and to the Schubert variety of  $PG(5, 2)$* , Discrete Math. **308** (2008), no. 2-3, 408–414. MR MR2378042 (2008j:94066)
- [20] Thorsten Lagemann, *Codes und automorphismen optimaler artin-schreier-turme*, Ph.D. thesis, Ruprecht-Karls-Universität Heidelberg, April 2006, p. 92.
- [21] Douglas A. Leonard, *A weighted module view of integral closures of affine domains of type I*, Adv. Math. Commun. **3** (2009), no. 1, 1–11.
- [22] John Little and Hal Schenck, *Toric surface codes and Minkowski sums*, SIAM J. Discrete Math. **20** (2006), no. 4, 999–1014 (electronic). MR MR2272243
- [23] John Little and Ryan Schwarz, *On  $m$ -dimensional toric codes*, 2005.
- [24] ———, *On toric codes and multivariate Vandermonde matrices*, Appl. Algebra Engrg. Comm. Comput. **18** (2007), no. 4, 349–367. MR MR2322944
- [25] Benjamin Lundell and Jason McCullough, *A generalized floor bound for the minimum distance of geometric Goppa codes*, J. Pure Appl. Algebra **207** (2006), no. 1, 155–164. MR MR2244388 (2007c:94290)

- [26] Gretchen L. Matthews, *Some computational tools for estimating the parameters of algebraic geometry codes*, Coding Theory and Quantum Computing, Contemp. Math., vol. 381, Amer. Math. Soc., Providence, RI, 2005, pp. 19–26. MR MR2170797
- [27] Gretchen L. Matthews and Todd W. Michel, *One-point codes using places of higher degree*, IEEE Trans. Inform. Theory **51** (2005), no. 4, 1590–1593. MR MR2241519 (2007b:94311)
- [28] Gary McGuire and José Felipe Voloch, *Weights in codes and genus 2 curves*, Proc. Amer. Math. Soc. **133** (2005), no. 8, 2429–2437 (electronic). MR MR2138886 (2006b:94070)
- [29] Keith E. Mellinger, *Classes of codes from quadratic surfaces of  $PG(3, q)$* , Contrib. Discrete Math. **2** (2007), no. 1, 35–42 (electronic). MR MR2291882 (2008b:94129)
- [30] G. Nebe, *Kneser-Hecke-operators in coding theory*, Abh. Math. Sem. Univ. Hamburg **76** (2006), 79–90. MR MR2293434 (2007m:11090)
- [31] Diego Ruano, *On the parameters of  $r$ -dimensional toric codes*, Finite Fields Appl. **13** (2007), no. 4, 962–976. MR MR2360532
- [32] John A. Ryan and Kondwani Magamba, *Equivalent irreducible Goppa codes and the precise number of quintic Goppa codes of length 32*, AFRICON 2007 (2007), 1–4.
- [33] Pawel Wocjan, *Brill-Noether algorithm construction of geometric Goppa codes and absolute factorization of polynomials*, Ph.D. thesis, Institut für Algorithmen und Kognitive Systeme, Universität Karlsruhe, 1999, p. 108.
- [34] Stephen S.-T. Yau and Huaiqing Zuo, *Notes on classification of toric surface codes of dimension 5*, Appl. Algebra Engrg. Comm. Comput. **20** (2009), no. 2, 175–185. MR MR2511885
- [35] Marcos Zarzar, *Error-correcting codes on low rank surfaces*, Finite Fields Appl. **13** (2007), no. 4, 727–737. MR MR2359313