Meeting: 1003, Atlanta, Georgia, SIAMMINI 3, SIAM Minisymposium on Error-Correcting Codes

1003-94-511 Steven T Dougherty* (doughertys1@scranton.edu), Department of Mathematics, University of Scranton, Scranton, PA 18510, and San Ling. Cyclic codes over even length over the integers modulo 4.

We determine the structure of cyclic codes over $\mathbb{Z}_4$ for arbitrary even lengths giving the generating polynomials for these codes. We describe the duals of these codes and we give the number of such codes. (Received September 18, 2004)