



COLLOQUIUM

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Maximum Zeros and Generalized Hamming Weight

Friday May 5th at 2:30pm in RT 1516

Bio: Dr. Eliseo Sarmiento is a Professor at the Instituto Politécnico Nacional in Mexico. He received his Ph.D. in Mathematics from CINVESTAV-IPN in 2012, where he conducted research on parameterized codes in Coding Theory. His current research interests include Coding Theory, Algebraic Geometric Codes, and Computational Algebra. He also has interests in information theory, combinatorics, and algebraic methods for solving computing problems.

Abstract: This talk explores the relationship between the maximum number of zeros of polynomials over finite fields and generalized Hamming weights. We examine various methods employed to solve these problems and provide bounds for computing the maximum number of zeros in some cases.

Refreshments will be served in RT 1517 at 2:10pm