1116-15-2416 Gregory Taylor* (gktaylor@email.wm.edu), 4634 Brook Highland Lane, Tuscaloosa, AL 35406, and Chi-Kwong Li and Diane Pelejo. *Polynomial Functions Over* \mathbb{Z}_n .

Polynomials play an important role in the theory of functions. It is known that all functions over a finite field can be written as a polynomial with entries from the field. In this talk, we study the case of polynomial functions over the ring of integers modulo some composite integer n. We take a matrix theoretic approach to establish results regarding the number of polynomial functions and determining whether a function can be represented as a polynomial. Computational techniques are emphasized in order to deliver meaningful calculations based on the theoretical results. (Received September 22, 2015)