1061-13-193 **Daniel Jesus Hernandez***, dhernan@umich.edu. *F-thresholds of polynomials.*

To a given polynomial over a field of prime characteristic, there is an associated invariant called the *F-threshold*. This invariant, defined using the Frobenius morphism, can be thought of as a prime characteristic analog of the well known log canonical threshold in characteristic zero. In the talk, we will present some formulas for F-thresholds, and use these formulas to provide examples of families of polynomials with the property that the F-threshold is equal to the log canonical threshold for infinitely many primes. We also point out how this is related to a longstanding open problem about the equivalence of F-pure and log canonical singularities. (Received April 13, 2010)