1154-11-499   **Emerald T Stacy*** (`estacy2@washcoll.edu`), 300 Washington Ave, Chestertown, MD 21620, and **Ozlem Ejder**, **Jaime Juul** and **Borys Kadets**. *Periodic Points of Polynomials in Finite Fields.*

Let $\mathcal{F}(d, q)$ denote the set of monic, degree d, polynomials over the finite field $\mathbb{F}_q$. For $f \in \mathcal{F}(d, q)$, let $\mathrm{Per}(f)$ denote the number of periodic points of f over $\mathbb{F}_q$. Fixing d, as $q \to \infty$, what happens to the average number of periodic points under each function in $\mathcal{F}(d, q)$? In this talk, we will explore a heuristic to estimate this average, and compare the heuristic to data collected for some d and q. (Received September 05, 2019)