1145-11-63 **Chad Awtrey*** (`cawtrey@elon.edu`). *Cyclic Eisenstein polynomials of p-power degree.*

Let p be an odd prime number and $\mathbf{Q}_p$ the field of p-adic numbers. For a positive integer n, local class field theory shows that there are precisely p^n nonisomorphic totally ramified Galois extensions of $\mathbf{Q}_p$ of degree p^n. Moreover, each extension has a cyclic Galois group. It is therefore natural to ask for polynomials which define each extension. When $n = 1$, such polynomials are known from the the work of Amano (1971). In this talk, we give analogous results for $n = 2$ and $n = 3$. (Received July 18, 2018)