

1077-11-1766

**Chad Awtrey\*** ([cawtre@elon.edu](mailto:cawtre@elon.edu)). *Dihedral  $p$ -adic fields.*

An important problem in constructive class field theory is to classify all finite extensions of the  $p$ -adic numbers by computing important invariants which define each extension. One important invariant is the number of nonisomorphic extensions of a specified degree and Galois group. We consider the case when the degree is a prime  $q$  and the Galois group is  $D_q$ , the dihedral group of order  $2q$ . (Received September 20, 2011)