Chad Awtrey* (awtrey@asu.edu). *Galois theory for tame dodecic local fields.*

Given a monic irreducible degree 12 polynomial \( f(X) \in \mathbb{Z}_p[X] \) and a prime number \( p \geq 5 \), let \( K/\mathbb{Q}_p \) be the splitting field of \( f \) and \( G \) its Galois group. Based on the theory of higher ramification groups, we discuss an original algorithm for identifying \( G \) from among the 301 possible transitive subgroups of \( S_{12} \). (Received September 15, 2009)