1077-20-1783 **Michael R Bush*** (mbush@smith.edu), Dept. of Mathematics and Statistics, Smith College, Northampton, MA 01063. *Schur σ-groups of small prime power order.*

Schur σ-groups are a class of pro-p groups first defined by Koch and Venkov in 1975. They arise naturally in algebraic number theory as the Galois groups of maximal unramified p-extensions of imaginary quadratic fields. In this talk, I'll describe work in progress to classify finite p-groups of this type using tools from computational group theory. If time permits, I'll also give a brief overview of some joint work with Nigel Boston and Farshid Hajir in which we give a heuristic for how often one expects a particular finite p-group of this type to arise as a Galois group. (Received September 20, 2011)