

1106-20-863

**Matthew D Welz\*** (mwelz@uwsp.edu). *Characterizations of Finite Groups with  $p$ -fusion of Squarefree Type.*

For  $G$  a finite group and  $p$  a prime, we discuss two theorems under hypotheses that restrict the index of the subgroup generated by every  $p$ -element  $x$  in certain subgroups generated by pairs of its conjugates. Under one set of hypotheses,  $G$  is shown to be supersolvable. Simple groups satisfying a complementary fusion-theoretic hypothesis are classified as well. (Received September 08, 2014)