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Michigan State University, East Lansing, MI 48824. *Odd Characters and Self-Normalizing Sylow  
2-Subgroups*. Preliminary report.

Let  $G$  be a finite group,  $p$  a prime, and  $P$  a Sylow  $p$ -subgroup of  $G$ . A recent refinement, due to G. Navarro, of the McKay conjecture suggests that there should exist a bijection between irreducible characters of  $p'$ -degree of  $G$  and irreducible characters of  $p'$ -degree of  $N_G(P)$  which commutes with certain Galois automorphisms. This Galois automorphism refinement of the McKay conjecture has several interesting consequences. I will discuss my progress on proving one of these consequences, namely a way to read off from the character table of  $G$  whether a Sylow 2-subgroup of  $G$  is self-normalizing. (Received August 27, 2013)