1056-Z1-336   **Thomas Philip Wakefield*** (`TomWakefield@gmail.com`), Department of Mathematics and Statistics, Youngstown State University, One University Plaza, Youngstown, OH 44555. *Huppert's Conjecture and $PSp_4(q)$.*

In the late 1990s, Bertram Huppert conjectured that the nonabelian simple groups are essentially determined by their character degrees. As part of his work to illustrate the veracity of his conjecture, he showed that if $q = 3$, 4, 5, or 7 and the sets of character degrees of the finite group G and $\mathrm{PSp}_4(q)$ are the same, then $G \cong \mathrm{PSp}_4(q) \times A$, where A is an abelian group. We will remove Huppert's restriction on q and show that the conjecture holds for $\mathrm{PSp}_4(q)$ for all $q > 2$. (Received August 30, 2009)