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**Calvin Deng\***, 370 Dunster Mail Center, 945 Memorial Drive, Cambridge, MA 02138. *Even  $(\bar{s}, \bar{t})$ -core partitions and self-associate characters of  $\tilde{S}_n$ .*

A partition is a  $\bar{s}$ -core if it is the result of removing all of the  $s$ -bars from a partition. We extend a method of Olsson and Bessenrodt to determine the number of even partitions that are simultaneously  $\bar{s}$ -core and  $\bar{t}$ -core. When  $p$  and  $q$  are distinct primes, this also determines the number of self-associate characters of  $\tilde{S}_n$  that are simultaneously defect 0 for  $p$  and  $q$ . (Received September 18, 2015)