

1135-VL-3048      **M. F. Anton\*** ([anton@ccsu.edu](mailto:anton@ccsu.edu)). *Relative Brauer Relations of Abelian  $p$ -Groups*.

The Brauer relations of a finite group  $G$  are virtual differences of non-isomorphic  $G$ -sets  $X - Y$  which induce isomorphic permutation  $G$ -representations  $\mathbb{Q}[X] \simeq \mathbb{Q}[Y]$  over the rationals. These relations have been classified by Tornehave-Bouc and Bartel-Dokchitser. Motivated by stable homotopy theory, a relative version of Brauer relations for  $(G, C_p)$ -bisets which are  $C_p$ -free have been classified by Kahn in case  $G$  is an elementary Abelian  $p$ -group. In this paper we extend Kahn's classification to the case when  $G$  is a finite Abelian  $p$ -group. (Received September 26, 2017)