Michael A. Jackson* (majackson@gcc.edu). *The strong symmetric genus of some small generalized symmetric groups. Preliminary report.

The strong symmetric genus of a finite group $G$ is the smallest genus of a closed orientable topological surface on which $G$ acts faithfully as a group of orientation preserving symmetries. A generalized symmetric group is a wreath product of a cyclic group of $m$ elements by the symmetric group on $n$ letters, $G(n, m) = C_m \wr S_n$. The strong symmetric genus is known for generalized symmetric groups for small $m$: the case of the symmetric groups ($m = 1$) was done by Marston Conder, while the cases for $m = 2$ (the hyperoctahedral groups) and $m = 3$ are results by the author. M. Ginter, S. Johnson, and J. McNamara found the strong symmetric genus for the generalized symmetric groups $G(n, m)$ where $n \leq 5$. In this talk we will look at other cases of the strong symmetric genus of the generalized symmetric groups $G(n, m)$ for small $n$. (Received September 10, 2014)