Hurwitz spaces

For a given group G we consider the n-branched G-covers of the punctured disc. That space is homeomorphic to $Hur_{G,n} = \widetilde{Conf}_n \times_{B_n} \mathrm{Hom}\ (F_n, G)$, and it is called the Hurwitz space. Now for a given conjugacy class c of G we consider the subspace $\widetilde{Conf}_n \times_{B_n} \mathrm{Hom}^c(F_n, G)$. If G is the trivial group, then $Hur^{\{1\}}_{\{1\},n}$ is $Conf_n$, and in this case homological stability is satisfied. A homological stability result is also satisfied for $Hur^c_{G,n}$, with rational coefficients, for any group of the form $G = A \rtimes \mathrm{Z}/2\mathrm{Z}$, where A is a finite group of odd order, and c the conjugacy class of involutions.