Introduction. Let $G$ be a finite group. The results announced here come from a study of the following general question: Classify all $G$ actions on a sphere $S$, $G$ homotopic to a given linear action.

This question has smooth, piecewise linear, and topological versions. Wall \([W]\) solved the pl and topological problem, for free actions, when $G$ is cyclic of odd order, and the dimension of the sphere is greater than 3. There are many partial results in the nonfree case. For example, if $S$ is locally smooth, if dimension $S^G > 5$ and $S$ satisfies the mild gap condition i.e. dimension $S^{H_1} - \text{dimension } S^{H_2} > 2$, for both nonempty and $H_1 \subsetneq H_2$, then by $G$ engulfing \([I]\) $S$ is topologically linear, and further if $S$ is a pl $G$ manifold, by $G$ s-cobordism theorem \([R]\) $S$ is equivariantly pl determined by a generalized Whitehead torsion invariant.

In this note we announce some new results on this question.

Statements of results. In what follows $G$ will always represent a cyclic group of odd order. We work in the locally linear i.e. locally smooth topological or pl category.

**Theorem A.** Locally linear pl or top $G$-vector bundles are oriented with respect to $KO_G(\quad) \otimes \mathbb{Z}[\frac{1}{2}]$. 

From this, the methods of Schultz-Sullivan, cf. \([S]\) and character theory one deduces easily the answer to the specific question which motivated our work.

**Theorem B.** Topologically conjugate representations of groups of odd order are linearly conjugate.