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Kevin P. Knudson* (knudson@math.msstate.edu), Department of Mathematics and Statistics,
P.O. Box MA, Mississippi State, MS 39762. *The homology of invariant group chains.*

Let G be a group and let Q be a finite group acting on G as a group of automorphisms. The Q -action induces an action on the bar complex $C_\bullet(G)$; denote the subcomplex of Q -invariant chains by $C_\bullet(G)^Q$. We will discuss the homology of the complex $C_\bullet(G)^Q$, including its relation to the homology of the quotient complex $(BG)/Q$. Several examples will be computed. (Received February 18, 2004)