

1132-55-10

**Shaun V. Ault\*** (svault@valdosta.edu), Valdosta State University, Department of Mathematics, 1500 N. Patterson St., Valdosta, GA 31698. *Homology Operations in Symmetric Homology.*

The symmetric homology of a unital associative algebra is defined using the covariant symmetric bar construction of Fiedorowicz and is shown to admit homology operations as well as a Pontryagin product structure. In this talk, we outline the proof of the above and then explore some methods for computation of symmetric homology in the case of finite-dimensional algebras over the integers. (Received April 14, 2017)