

1040-18-102

J Scott Carter* (carter@jaguar1.usouthal.edu), University of South Alabama, Department of Mathematics and Statistics, Mobile, AL 36688. *Diagrammatics of Cohomology*.

This talk is based on joint work with Crans, Elhamdadi, Lopes, and Saito. In various contexts, Lie algebras, quandles, Hopf Algebras, and Frobenius algebras, there is a cohomology theory that is defined via diagrams in low dimensions. The purpose here is to demonstrate the commonality among these definitions and whenever possible extend the definitions to higher dimensions. Several key examples will be examined. (Received January 28, 2008)