1062-18-258 **Randall E Cone*** (conere10@vmi.edu), Virginia Military Institute, Mallory Hall, Lexington, VA 24450. *Finite Generation of Ext-Algebras for Monomial Algebras.*

The use of graphs in algebraic studies is ubiquitous, whether the graphs be finite or infinite, directed or undirected. Green and Zacharia characterized finite generation of the cohomology rings of monomial algebras, and thereafter G. Davis determined a finite criteria for such generation in the case of cycle algebras. We describe the construction of a finite directed graph upon which criteria can be established to determine finite generation of the cohomology ring of "in-spoked cycle" algebras, a class of algebras that includes cycle algebras. (Received August 10, 2010)