ELLEN KIRKMAN, Wake Forest University
Finiteness conditions on the Ext algebra of a monomial algebra

Let k be a field and let A be a monomial k-algebra, $A = T(V)/I$, where $T(V)$ is a finitely generated tensor k-algebra and I is a set of monomials in $T(V)$. We associate a finite graph $\Gamma(A)$ to A, and use $\Gamma(A)$ to characterize finiteness properties of $\mathrm{Ext}_A(k, k)$, the Yoneda Ext algebra of A, including finite Gelfand-Kirillov dimension, the noetherian property, and finite generation of $\mathrm{Ext}_A(k, k)$. (Joint work with Andrew Conner, James Kuzmanovich, and W. Frank Moore)