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**Joerg Feldvoss** and **Sarah Witherspoon\*** ([sjw@math.tamu.edu](mailto:sjw@math.tamu.edu)). *Support varieties and representation type.*

Support varieties are useful invariants of modules that are defined homologically under some finiteness conditions. These varieties can provide information about the representation type of a finite dimensional algebra. We will first give an overview of this theory. Then we will explain how it leads to a wildness criterion for small quantum groups and more generally for finite dimensional Hopf algebras having finitely generated cohomology. (Received September 14, 2009)