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22903. *Ext and Donkin's tilting module conjecture.*

I will discuss recent work with Brian Parshall bounding dimensions of higher Ext groups for semisimple algebraic groups G with irreducible coefficients. In treating the small prime cases, we prove and use a stable version of a tilting module conjecture of Donkin, regarding G -module structures on injective modules for the restricted Lie algebra. In particular a direct sum of a finite number of copies of such a module with itself has a compatible G -structure. (Received February 16, 2010)