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Andrew Putman, Steven V Sam* (svs@math.wisc.edu) and **Andrew Snowden**. *Stability in the homology of unipotent groups.*

Let R be a commutative ring whose additive group is finitely generated. We show that the homology of the group of $n \times n$ upper-triangular matrices with entries in R has polynomial growth in n when considered with field coefficients. More generally, we show that it is a finitely generated functor for the category of ordered sets and injections. Time permitting, I will also discuss how this action can be upgraded to one over a q -deformation of the category FI of finite sets and injections. (Received January 20, 2017)