

1024-16-233

**Edward L Green\*** (green@math.vt.edu), **Nicole Snashall**, **Oeyvind Solberg** and **Dan Zacharia**. *Noetherianity and Ext*.

Let  $R = R_0 \oplus R_1 \oplus R_2 \oplus \cdots$  be a graded  $K$ -algebra generated in degrees 0 and 1 with  $R_0$  a finite product of copies of  $K$  and  $R_1$  finite dimensional over  $K$ . We study the relationship between the noetherianity of  $R$  and its Ext-algebra  $\bigoplus_{n \geq 0} \text{Ext}_R^n(R_1, R_0)$ . Special attention will be paid to the case when  $R$  is a Koszul algebra. (Received January 09, 2007)