

1085-13-246

Janet Striuli* (jstriuli@fairfield.edu) and **Ian Aberbach**. *Uniform bounds of Artin-Rees type for free resolutions over three dimensional rings*. Preliminary report.

In this talk we will present a result about uniform bounds of Artin-Rees type for infinite free resolutions. Let (R, m) be a local noetherian ring of dimension 3. Given an R -module M , a free resolution (F_i, ∂_i) and an m -primary ideal I , there exists an integer h such that $I^n F_i \cap \text{Im} \partial_{i+1} \subseteq I^{n-h} \text{Im} \partial_{i+1}$ for all $i \geq 0$ and for all $n \geq h$. (Received September 10, 2012)