1086-14-1188   **Lawrence Ein**, **Robert Lazarsfeld** and **Yusuf Mustopa*** (`mustopa@bc.edu`). *Stability of Syzygy Bundles.*

The syzygy bundle associated to a subvariety $X \subseteq \mathbb{P}^n$ governs the fine structure of the equations which cut out X in $\mathbb{P}^n$. A classical result of Ein-Lazarsfeld implies that this bundle is stable when X is a smooth curve embedded in $\mathbb{P}^n$ by a complete linear series of large degree. In this talk I will discuss joint work with Lawrence Ein and Rob Lazarsfeld which attempts to generalize this to varieties of higher dimension. (Received September 19, 2012)