

Meeting: 999, Nashville, Tennessee, SS 8A, Special Session on Algebraic Geometry and Commutative Algebra

999-14-173 **Stephanie Fitchett*** (sfitchet@fau.edu), FAU Honors College, 5353 Parkside Drive, Jupiter, FL 33458, and **Brian Harbourne** and **Sandeep Holay**. *Finding Information on Resolutions of Fat Points in \mathbf{P}^n* . Preliminary report.

In previous work, we developed a method for bounding numbers of generators for ideals of fat points in \mathbf{P}^n when $n = 2$. This talk will present our results on bounds for $n > 2$. The method relies on the geometry of the scheme obtained by blowing up the points. (Received August 22, 2004)