1015-13-244 **Jooyoun Hong*** (hong@math.purdue.edu), Department of Mathematics, Purdue University, 150 N. University Street, West Lafayette, IN 47907, and **Bernd Ulrich** (ulrich@math.purdue.edu), Department of Mathematics, Purdue University, 150 N. University Street, West Lafayette, IN 47907. *Hyperplane sections and integral closures.* Preliminary report.

In this joint work with B. Ulrich, we show that integrally closedness of any ideals of height at least 2 is compatible with a specialization of generic elements using a vanishing theorem of local cohomology of certain degrees. Under additional assumptions, we use this compatibility to show that a module is integrally closed if and only if its Bourbaki ideal is integrally closed. (Received February 06, 2006)