1024-13-89 Jim Coykendall\* (jim.coykendall@ndsu.edu), Department of Mathematics, North Dakota State University, Fargo, ND 58105-5075. Generalizations of the Hilbert Basis Theorem.
It is a classical result in commutative algebra that if R is Noetherian, then its polynomial and power series extensions (R[x] and R[[x]] respectively), are also Noetherian. This talk will consider the stability of a couple of "near-Noetherian" properites in polynomial and power series extensions. In particular, we will look at the stability of the (strong) finite-type

property in R[x] and R[[x]]. (Received January 02, 2007)