Ela Celikbas* (celikbase@missouri.edu), 109A Math Sciences Bldg, Mathematics Department, University of Missouri, Columbia, MO 65211, and Christina Eubanks-Turner and Sylvia Wiegand. Prime Ideals in Quotients of Mixed Power Series/Polynomial Rings. Preliminary report.

In this talk we discuss sets of prime ideals in quotients of mixed power series-polynomial rings. For a one-dimensional Noetherian domain $R$, we describe prime spectra of certain two-dimensional quotients of mixed power series/polynomial rings over $R$, that is, $\text{Spec}(R[[x]][y]/Q)$ and $\text{Spec}(R[y][[x]]/Q')$, where $x$ and $y$ indeterminates and $Q$ and $Q'$ are certain height-one prime ideals of $R[[x]][y]$ and $R[y][[x]]$ respectively. (Received September 02, 2012)