1083-16-47 **Martin Lorenz*** (lorenz@temple.edu). *Torus actions on noncommutative algebras.*

Let G be an algebraic torus that acts rationally by automorphisms on an associative algebra R. The G-action induces a stratification of the prime spectrum of R which was first studied by Goodearl and Letzter. For a noetherian algebra R, Goodearl and Letzter have shown that the strata of the spectrum of R are isomorphic to the spectra of certain commutative Laurent polynomial algebras. In this talk, I will sketch a new proof of this result which works for arbitrary algebras R. (Received August 08, 2012)