1094-13-136 **David Wright*** (wright@math.wustl.edu). *Local criteria for stable tameness of polynomial automorphisms.*

A fairly recent breakthrough in the field of polynomial automorphisms establishes that all two dimensional automorphisms over a regular ring are stably tame. The proof uses some tools of intrinsic interest, including assertions that stable tameness can be detected at the local level and at the level of fibers. The proofs of these tools evoke arguments reminiscent of parts the proof of the Quillen-Suslin Theorem and other results of that era, including the theorem of Bass-Connell-Wright which asserts n-space bundles are vector bundles over affine schemes. This talk will lay out the recent results and discuss the similarity of the localization methods used here with those of previous results. (Received August 19, 2013)