

1096-05-2201      **Will Grilliette\*** ([wgrilliette@uttyler.edu](mailto:wgrilliette@uttyler.edu)), RBN 4005, University of Texas at Tyler, 3900  
University Blvd, Tyler, TX 75799. *Blow-Ups and Injectivity of Quivers*.

This talk is based on joint work with Drs. Deborah and Tyler Seacrest. In this talk, I connect the idea of a “blow-up” of a quiver with that of injectivity, showing that for a class of monic maps  $\Phi$ , a quiver is  $\Phi$ -injective if and only if all blow-ups of it are as well. This relationship is then used to characterize all quivers that are injective with respect to the natural embedding of  $P_n$  into  $C_n$ . (Received September 17, 2013)