1018-05-213   **Allen Knutson*** (`allenk@math.ucsd.edu`), CA, and **Mark Shimozono** (`mshimo@vt.edu`), VA.
Kempf collapsing and quiver loci. Preliminary report.

A_n quiver loci have been of great interest in 21st century algebraic combinatorics, in large part thanks to their intimate relationship with Stanley symmetric functions. At this point, not only can one compute their multidegrees and K-classes, but one has appropriately positive formulae in most contexts.

The situation for other finite-type (ADE) quivers has so far been completely lacking. I'll describe a uniform approach that gives multidegrees of quiver loci for any ADE quiver (and a new formula in the A_n case), generalizing old results of Kempf to apply to work of Reineke. I'll also describe work in progress on the K-classes of quiver loci. (Received March 07, 2006)