1078-05-396 **Andrew Berget***, Mathematical Sciences Building, One Shields Avenue, Davis, CA 95616, and **Alex Fink**. *Projective equivalence classes of vector configurations.*

We consider the projective equivalence class of an r-by-n matrix v, whose columns are thought of as a vector configuration that realizes a rank r matroid on n elements. The Zariski closure of such an equivalence class is an affine variety that carries the action of a linear algebraic group. In this talk I will discuss invariants of projective equivalence classes, including equations for these varieties and their K-polynomials. (Received December 13, 2011)