1139-20-621 **Reuven Hodges*** (hodges.r@husky.neu.edu) and **Venkatramani Lakshmibai**. Levi subgroup actions on Schubert varieties in the Grassmannian.

Let L be a Levi subgroup of the general linear group $GL_N(\mathbb{C})$ which acts stably by left multiplication on a Schubert variety X(w) in the Grassmannian. We provide a combinatorial description of the decomposition of the homogeneous coordinate ring of X(w) (for the Plucker embedding) into irreducible L-modules for the induced action. This is then used to classify all X(w) whose homogeneous coordinate rings have a multiplicity free decomposition into irreducible L-modules in the case where L is the maximal Levi subgroup which acts on X(w). When L is not maximal we give sufficient conditions for the decomposition to be multiplicity free. (Received February 20, 2018)