

**Meeting:** 1003, Atlanta, Georgia, SS 8A, AMS Special Session on Modular Representation Theory of Finite and Algebraic Groups, I

1003-20-1212      **Terrell L. Hodge\*** (terrell.hodge@wmich.edu), Department of Mathematics, Western Michigan University, Kalamazoo, MI 49008-5248. *On Some Transfer Results for Algebraic Groups with Involutions*. Preliminary report.

Let  $G$  be a reductive algebraic group over an algebraically closed field of characteristic greater than 2, and let  $G\text{-mod}$  be the category of finite dimensional rational modules for  $G$ . Let  $H$  be a Levi subgroup of  $G$ . Motivated by recent Ext-transfer results of Cline, Parshall, and Scott linking  $G\text{-mod}$  and  $H\text{-mod}$ , we examine some categorical equivalences between module categories associated to  $G\text{-mod}$  and  $K\text{-mod}$ , where  $K = G^\theta < G$  is the fixed point subgroup associated to a nontrivial involution  $\theta \in \text{Aut}(G)$ . (Received October 04, 2004)