

1116-20-1640 **Paul Sobaje*** (psobaje@yahoo.com). *Projective indecomposable $G_{(r)}$ -modules.*

Let G be simple algebraic group over an algebraically closed field of positive characteristic, and let $G_{(r)}$ be the r -th Frobenius kernel of G . Various conjectures deal with the existence and possible structures over G of the projective indecomposable $G_{(r)}$ -modules. These conjectures are known to hold when p is large enough, but remain open in smaller characteristic. We will discuss recent work on this problem, including new techniques which have been developed in an effort to solve it. (Received September 20, 2015)