

1133-20-268

Christopher Bendel, Daniel Nakano, Cornelius Pillen and Paul Sobaje*

(sobaje@uga.edu), 166 Oak Meadow Dr., Athens, GA 30605. *On tensoring restricted simple G -modules with the Steinberg representation.* Preliminary report.

Let G be a simple algebraic group over an algebraically closed field of characteristic $p > 0$, St the Steinberg module for G , and $L(\lambda)$ a restricted simple G -module. We consider the problem of determining when $St \otimes L(\lambda)$ has a good filtration, a problem with a number of important implications for the representation theory of G . (Received July 28, 2017)