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Stephen Doty* (doty@math.luc.edu), Department of Mathematics and Statistics, Loyola University Chicago, Chicago, IL 60626. *Factoring tilting modules for algebraic groups.*

Let G be a semisimple, simply-connected algebraic group over an algebraically closed field of characteristic $p > 0$. We observe that the tensor product of the Steinberg module with a minuscule module is always indecomposable tilting. Although quite easy to prove, this fact does not seem to have been observed before. It has the following consequence: If a given tilting module has highest weight p -adically close to the r -th Steinberg weight, then the tilting module is isomorphic to a tensor product of two simple modules, usually in many ways. (Received February 15, 2010)