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Jinkui Wan and **Weiqiang Wang*** (ww9c@virginia.edu), Department of Mathematics,
University of Virginia, Charlottesville, VA 22904. *Beyond Steinberg module multiplicity of the
symmetric algebra over $GL_n(q)$.*

We establish explicit closed formulas for the composition multiplicities of a class of simple $GL_n(q)$ -modules (“around” the Steinberg module) in the symmetric algebra of the natural module. This is joint work with Jinkui Wan. (Received July 30, 2010)