Cristina M Ballantine* (cballant@holycross.edu), College of the Holy Cross, 1 College Street, Worcester, MA 01610, and William T Hallahan. Stability of coefficients in the Kronecker product of a hook and a rectangle.

We use Blasiak’s combinatorial rule for Kronecker coefficients for one hook shape to prove a stability result for the coefficients in the Kronecker product of two Schur functions: one indexed by a hook partition and one indexed by a rectangle partition. We also give sharp bounds for the size of the partition starting with which the Kronecker coefficients are stable. Our study of this particular case of the Kronecker product is motivated by its usefulness for the understanding of the quantum Hall effect. (Received July 02, 2016)