

1086-05-2378

**Sami Assaf\*** (shassaf@usc.edu) and **David Speyer**. *Stable Schur functions*.

The Kronecker coefficients give the multiplicities for the irreducible decomposition of the (inner) tensor product of two  $\mathfrak{S}_n$ -modules. If one takes two arbitrary partitions and inserts a large number at the beginning so that the two partitions are now of the same size, then the multiplicities that appear eventually stabilize as the size of the first part increases. We present a new basis for symmetric functions whose structure constants are precisely these stable Kronecker coefficients. (Received September 25, 2012)