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Rosa C Orellana*, 6188 Kemeny Hall, Hanover, NH 03755, and **Mike Zabrocki**
(zabrocki@mathstat.yorku.ca). *Kronecker products and multiset tableaux.*

In a recent article Zabrocki and I introduced two new bases of symmetric functions that have the property that they evaluate to characters of the symmetric group when evaluated at eigenvalues of permutation matrices. One of the basis evaluates to the irreducible characters, the structure coefficients of this basis are the stable Kronecker coefficients. A byproduct of this work was the introduction of multiset tableaux in the study of the Kronecker product. In this talk I will discuss several combinatorial descriptions of Kronecker coefficients in terms of multiset tableaux.

This is joint work with Mike Zabrocki (Received January 12, 2020)