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**Heather Russell** and **Julianna Tymoczko\*** (jtymoczko@smith.edu), Department of Mathematics and Statistics, 44 College Lane, Northampton, MA 01060. *Comparing web and tableau bases for certain symmetric group representations.*

We consider the complex representations of the symmetric group corresponding to the partition  $(n, n)$  and compare two bases: the classical Specht module basis and the web basis. Specht basis vectors are indexed by Young tableaux and connect algebra and combinatorics through a rich network of ideas. Web basis vectors are indexed by noncrossing matchings and developed from topological considerations. We show that the change-of-basis matrix between these two matrices is upper-triangular with ones along the diagonal. Time permitting, we will also describe other results and conjectures. (Received August 30, 2016)