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Vidya Venkateswaran*, vidyav@math.mit.edu. *A p -adic interpretation of some integral identities for Hall-Littlewood polynomials.*

If one restricts an irreducible representation of GL_n to the orthogonal subgroup (respectively, the symplectic subgroup), classical branching rules tell us when the trivial representation is contained in the restricted representation. In both cases, the partition λ that indexes the original representation must satisfy a particular condition: in the orthogonal (respectively, symplectic) case, λ (resp. λ') must have all even parts. Using character theory, these results may be rephrased in terms of integrals involving the Schur functions. Since Hall-Littlewood polynomials are t -generalizations of Schur functions, one may consider t -analogs of these results. We will discuss these identities, focusing on an interpretation using p -adic representation theory that parallels the Schur case. (Received August 10, 2015)