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**Vidya Venkateswaran\*** ([vidyav@math.mit.edu](mailto: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  $\lambda$  that indexes the original representation must satisfy a particular condition: in the orthogonal (respectively, symplectic) case,  $\lambda$  (resp.  $\lambda'$ ) 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 July 28, 2014)