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Kailash C. Misra* (misra@ncsu.edu), Department of Mathematics, North Carolina State University, Raleigh, NC 27695-8205. *Tensor Product Decomposition of $\widehat{\mathfrak{sl}}(n)$ Modules and identities.*

We decompose the $\widehat{\mathfrak{sl}}(n)$ -module $V(\Lambda_0) \otimes V(\Lambda_i)$ using crystal bases and give generating function identities for the outer multiplicities. In the process we discover some seemingly new partition identities for $n = 3, 4$. This is based on some joint work with Evan Wilson. (Received July 23, 2013)