1022-05-73 Galyna Dobrovolska (galyna@mit.edu), 115 Pacific Street, # 202, Cambridge, MA 02139, and Pavlo Pylyavskyy* (pasha@mit.edu), 22 Magazine Str, #8, Cambridge, MA 02139. On products of sl_n characters and support containment.

Let λ , μ , ν and ρ be dominant weights of \mathfrak{sl}_n satisfying $\lambda + \mu = \nu + \rho$. Let V_{λ} denote the highest weight module corresponding to λ . Lam, Postnikov, Pylyavskyy conjectured a sufficient condition for $V_{\lambda} \otimes V_{\mu}$ to be contained in $V_{\nu} \otimes V_{\rho}$ as \mathfrak{sl}_n -modules. In this note we prove a weaker version of the conjecture. Namely we prove that under the conjectured conditions every irreducible \mathfrak{sl}_n -module which appears in the decomposition of $V_{\lambda} \otimes V_{\mu}$ does appear in the decomposition of $V_{\nu} \otimes V_{\rho}$. (Received September 10, 2006)