1070-05-94 **Gregory S. Warrington*** (Gregory.Warrington@uvm.edu), Dept. of Mathematics & Statistics, 16 Colchester Ave., Burlington, VT 05401, and Nicholas Loehr. *Quasisymmetric expansions of Schur plethysms.*

Let s_{μ} denote a Schur symmetric function and Q_{α} a fundamental quasisymmetric function. Explicit combinatorial formulas are developed for the fundamental quasisymmetric expansions of the plethysms $s_{\mu}[s_{\nu}]$ and $s_{\mu}[Q_{\alpha}]$, as well as for related plethysms defined by inequality conditions. The key tools for obtaining these expansions are new standardization and reading word constructions for matrices. (Received February 01, 2011)