1039-05-129 **Peter R. W. McNamara*** (peter.mcnamara@bucknell.edu), Department of Mathematics, Bucknell University, Lewisburg, PA 17837, and **Stephanie van Willigenburg** (steph@math.ubc.ca), Department of Mathematics, University of British Columbia, 1984 Mathematics Rd., Vancouver, BC V6T 1Z2, Canada. *The Schur-positivity poset.*

To any skew shape $A$, we can associate the skew Schur function $s_A$. We can then order the set of skew shapes by saying that $A \leq B$ if $s_B - s_A$ is *Schur-positive*, i.e., when expanded in the basis of Schur functions, all the coefficients are non-negative. We call the resulting poset the *Schur-positivity poset* on skew shapes. While much recent work on Schur-positivity can be formulated in terms of the Schur-positivity poset, a complete understanding of the poset is presently well out of reach. After giving an introduction to the Schur-positivity poset, we show that restricting the skew shapes to the set of multiplicity-free ribbons yields a simple and appealing convex subposet. (Received March 10, 2008)