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Elizabeth Niese* (niese@marshall.edu), One John Marshall Dr, Huntington, WV 25755, and
Sarah K Mason. *The combinatorics of quasisymmetric (k, l) -hook Schur functions.*

In this talk we introduce a refinement of Berele and Regev's (k, l) -hook Schur functions using quasisymmetric Schur functions and row-strict quasisymmetric Schur functions. The quasisymmetric (k, l) -hook Schur functions can be defined as the generating function for a certain set of composition tableaux on two alphabets. We will present combinatorial properties of the quasisymmetric (k, l) -hook Schur functions, including a decomposition into super-fundamental quasisymmetric functions, an analogue of the RSK algorithm, and a generalized Cauchy identity. (Received August 07, 2015)