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**Stephanie van Willigenburg\*** ([steph@math.ubc.ca](mailto:steph@math.ubc.ca)). *Modules of the 0-Hecke algebra and quasisymmetric Schur functions.*

Quasisymmetric Schur functions are a basis for the algebra of quasisymmetric functions, which refine classical Schur functions and many of their combinatorial properties in a natural way. However, an important question is whether a representation theoretic interpretation for quasisymmetric Schur functions exists.

In this talk we will answer this question in the affirmative by defining an action of the 0-Hecke algebra on standard reverse composition tableaux and using it to produce 0-Hecke modules whose quasisymmetric characteristic is a quasisymmetric Schur function. Furthermore we will see how these modules are related to the weak Bruhat order and truncated shifted reverse tableaux. This is joint work with Vasu Tewari. (Received August 07, 2014)