STEPH VAN WILLIGENBURG, UBC
Collected results on quasisymmetric Schur functions

In this talk we describe quasisymmetric Schur functions, which partition Schur functions in an intuitive way. Furthermore, we show how these quasisymmetric Schur functions refine many well-known Schur function properties with combinatorics that strongly reflect the classical case. Examples of properties include

- quasisymmetric Kostka numbers

- skew quasisymmetric Schur functions

- a quasisymmetric Littlewood-Richardson rule and

- an analogue of Young's lattice.

This is joint work with Christine Bessenrodt, Jim Haglund, Kurt Luoto and Sarah Mason.