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Expansion of k -Schur functions for maximal k -rectangles within the affine nilCoxeter algebra

In joint work with N. Bergeron, H. Thomas and M. Zabrocki, we give multiple explicit combinatorial formulas for the k -Schur functions in non-commutative variables, contained in the affine type A nil-Coxeter algebra. I will discuss several of these formulas and their connection with the k -Littlewood Richardson coefficients.