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Global crystal bases and q-Schur algebras

One approach to studying irreducible $U_q(sl_n)$-modules is through quantized Schur algebras, or q-Schur algebras. In this talk, I will give bases for irreducible $U_q(sl_n)$-modules in terms of q-Schur algebras which turn out to be quantum versions of the Carter-Lusztig standard bases. I will also establish the connection between these bases and Kashiwara's global crystal bases.