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02130. *Quantum D-modules and the DAHA.*

We describe a technique for constructing representations of the double affine Hecke algebra of type A_n from a D-module on the quantum group $U_q(\mathfrak{gl}_N)$, ($n, N \in \mathbb{N}$), which may be considered a higher genus analog of q-Schur-Weyl duality. Time permitting, we will discuss more recent constructions with Xiaoguang Ma, extending to root systems of type B and C. (Received February 11, 2010)