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David Jordan and **Monica Vazirani***, One Shields Ave, Davis, CA 95616. *The rectangular representation of the double affine Hecke algebra via elliptic Schur-Weyl duality.*

Building on the work of Calaque-Enriquez-Etingof, Lyubashenko-Majid, and Arakawa-Suzuki, Jordan constructed a functor from quantum D -modules on general linear groups to representations of the double affine Hecke algebra (DAHA) in type A . When we input quantum functions on $GL(N)$ the output is $L(k^N)$, the irreducible DAHA representation indexed by an $N \times k$ rectangle. For the specified parameters $L(k^N)$ is Y -semisimple, i.e. one can diagonalize the Dunkl operators. We give an explicit combinatorial description of this module via its Y -weight basis. This is joint work with David Jordan. (Received September 17, 2019)