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Chun-Ju Lai* (cjlai@uga.edu), Department of Mathematics, Boyd Graduate Studies Research Center, University of Georgia, Athens, GA 30602, and **Daniel K. Nakano** and **Ziqing Xiang**. *A coordinate coalgebra construction of q -Schur duality of type B.*

In this talk we investigate the q -Schur algebras of type B that were constructed earlier using coideal subalgebras for the quantum groups of type A. We present a coordinate coalgebra construction that allows us to realize these q -Schur algebras as the duals of the d -th graded components of certain graded coalgebras. Such a realization allows us to relate the representation theory of the type B q -Schur algebras with the representation theory of the associated quantum symmetric pairs. (Received January 18, 2019)