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Zhaobing Fan* (fanz@math.ksu.edu), 138 Cardwell Hall, Kansas State University, Manhattan, KS 66506, and **Yiqiang Li** (yiqiang@buffalo.edu), 244 Mathematics Building, University at Buffalo, Buffalo, NY 14260. *Geometric Schur duality of type D*.

We establish a duality between the Iwahori-Hecke algebras of type D and two new algebras arising from the geometry of N-step isotropic flag varieties of type D, in analogue with Schur-Jimbo duality of type A and Bao-Wang duality of type B/ C. We construct canonical bases for these two algebras. (Received January 18, 2015)