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Kei Yuen Chan* (chan@math.utah.edu). *Twisted Euler-Poincaré pairings for graded affine Hecke algebras.*

The inner product for the elliptic representation space of p -adic groups was defined homologically as the Euler-Poincaré pairing by Schneider-Stuhler. Graded affine Hecke algebras were an algebraic structure for studying representations of p -adic groups. In this talk, I shall present a twisted Euler-Poincaré pairing for graded affine Hecke algebras and discuss the corresponding twisted elliptic space. This twisted pairing is motivated by the twisted elliptic representation theory of Weyl groups recently introduced by Ciubotaru-He. (Received February 10, 2014)