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**Dan Ciubotaru\*** ([ciubo@math.mit.edu](mailto:ciubo@math.mit.edu)), Department of Mathematics, Room 2-179,  
Massachusetts Institute of Technology, Cambridge, MA 02139. *Spherical unitary principal series.*

We determine the unitary irreducible principal series for affine graded Hecke algebras with (arbitrary) unequal parameters. For special values of the parameters, the Hecke algebras appear in Lusztig's classification of the unipotent representations of p-adic groups. This is joint work with D. Barbasch. (Received February 20, 2006)