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*Kazhdan -Lusztig cells in unequal parameter Hecke Algebras.*

Unequal parameter Hecke algebras for a Coxeter group  $(W, S)$  are defined by replacing the length function on  $W$  by a similarly-behaved "weight" function. We will discuss the Kazhdan-Lusztig cells which arise from this construction as well as the related combinatorics, focusing on type  $B_n$ . (Received February 02, 2008)