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Demazure operators, Whittaker functions and unique functionals.

I will report on recent work of Brubaker, Bump and Licata and Brubaker, Bump and Friedberg on the use of Demazure-Lusztig operators to describe special functions (such as Whittaker functions) on reductive p-adic groups. I will touch on connections with crystal graphs and solvable lattice models. (Received September 23, 2012)