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Stephen M DeBacker*, Department of Mathematics, 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109-1043. *Invariant distributions supported on compact elements.*

If J denotes the space of invariant distributions supported on the set of compact elements in a reductive p -adic group G and D denotes the space of bi-Iwahori invariant functions on G , can one describe a basis for the restriction to D of J ? I will discuss what is known about this problem, and I will introduce some related problems on finite groups of Lie type. (Received September 22, 2009)