1001-22-155 **Jeffrey Hakim** and **Fiona Murnaghan***, Department of Mathematics, University of Toronto, 100 Saint George Street, Toronto, Ontario M5S 3G3, Canada. *Distinguished supercuspidal representations.* Preliminary report.

If θ is an involution of a group G, with fixed points G^θ, a representation π of G is θ-distinguished if the space $\mathrm{Hom}_{G^\theta}(\pi, 1)$ of G^θ-invariant linear functionals on the space of π is nonzero. Let G be a reductive p-adic group, and let π be one of the tame supercuspidal representations of G constructed by J.K. Yu. We describe a formula expressing the dimension of $\mathrm{Hom}_{G^\theta}(\pi, 1)$ in terms of properties of a cuspidal G-datum used to construct the representation π. (Received August 23, 2004)