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Fiona Murnaghan* (fiona@math.toronto.edu), Department of Mathematics, 40 Saint George Street, Toronto, Ontario M5S 2E4, Canada. *Relatively supercuspidal representations.*

Let H be the subgroup of points in a connected reductive p -adic group G that are fixed by a particular involution of G . The notion of H -relatively supercuspidal representation of G was defined by Kato and Takano. Every irreducible smooth H -distinguished representation of G is a subrepresentation of a representation obtained by parabolic induction from an H -relatively supercuspidal representation of G . An H -distinguished representation of G is H -relatively supercuspidal if all of the relative matrix coefficients of the representation are compactly supported modulo HZ , where Z is the centre of G . We will describe a construction of H -relatively supercuspidal representations. (Received June 13, 2011)