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Distinguished tame supercuspidal representations

Let θ be an involution of a group G . A representation of G is said to be θ -distinguished if there exists a nonzero linear functional on the space of the representation that is invariant under the fixed points G^θ of θ in G . Suppose that G is a connected reductive p -adic group. We discuss distinguishedness of tame supercuspidal representations of G , relative to various involutions. As an application, we can determine when two tame supercuspidal representations of G are equivalent, in terms of conditions on the associated cuspidal G -data used to construct the representations.