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Globalization of supercuspidal representations over function fields and applications

Let H be a connected reductive group defined over a non-archimedean local field F of characteristic $p > 0$. Using Poincaré series, we globalize supercuspidal representations of H_F in such a way that we have control over ramification at all other places, and such that the notion of distinction with respect to a unipotent subgroup (indeed more general subgroups) is preserved. In combination with the work of Vincent Lafforgue on the global Langlands correspondence, we present applications, such as the stability of Langlands-Shahidi γ -factors and the local Langlands correspondence for classical groups.