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Explicit Liftings of Conjugacy Classes in Reductive Groups

Let $\tilde{G}$ be a connected reductive group defined over a field k, Γ a group of k-automorphisms of $\tilde{G}$, and G the connected group of Γ-fixed points in $\tilde{G}$. We construct a lifting of semisimple conjugacy classes from the dual group G^* to $\tilde{G}^*$ and present certain properties of the lifting which make it possible to compute it more explicitly. This lifting is conjectured to relate the K-types of representations of an unramified p-adic group and those of their base change lifts over tame extensions.