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Lifting data from fixed-point subgroups

Let G be a connected reductive group over a local nonarchimedean field of residual characteristic p and set $H = (G^\Gamma)^\circ$, where $\Gamma \subset \text{Aut}(G)$ is a finite group such that $\gcd(p, |\Gamma|) = 1$. The restriction of an Adler-Yu type (J, λ) to its pro- p radical is called a semisimple character in the setting of Bushnell-Kutzko-Stevens types. Given a Γ -stable datum defining a semisimple character of G , one can restrict it to a datum defining a semisimple character of H . In this talk, we will describe some of the key results involved in answering the converse question: that of lifting a datum of H into one of G . This is joint work with Monica Nevins.