

Séminaire Groupes Réductifs et Formes Automorphes

Le 18 novembre 2019 à 10h30 (Jussieu)

Deligne-Lusztig constructions and special cases of the local Langlands and Jacquet-Langlands correspondences.

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Résumé :

For a reductive group G over a local non-archimedean field K one can mimic constructions from the classical Deligne-Lusztig theory by using the loop space functor. In special cases - attached to $G =$ inner form of GL_n , and Coxeter elements in the Weyl group - we show that the resulting fpqc-sheaves on algebras over the residue field of K are representable by schemes. Their ℓ -adic cohomology realizes many irreducible supercuspidal representations of G , notably almost all among those whose L-parameter factors through an unramified elliptic maximal torus of G . This gives a purely local, purely geometric and - in a sense - quite explicit way to realize special cases of the local Langlands and Jacquet-Langlands correspondences.