

Séminaire Groupes Réductifs et Formes Automorphes

Le 3 octobre 2016 à 10h30 (PRG)

Affine Deligne-Lusztig theory

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Résumé : The classical Deligne-Lusztig theory gives a geometric tool to construct representations of the finite group of rational points of a reductive group over a finite field. We develop an affine version of this, by constructing families of extended affine Deligne-Lusztig varieties attached to a reductive group G over a local field. The cohomology of (certain covers of) these varieties conjecturally allows to realize the local Langlands correspondence and the automorphic induction of characters of maximal tori in G . We show this conjecture for $G = \mathrm{GL}_2$ and at most tamely ramified tori (and all characters of arbitrary deep level).