

Séminaire Groupes Réductifs et Formes Automorphes

Le 25 mars 2019 à 10h30 (Jussieu)

Supersingular pro- p -Iwahori-Hecke modules and Galois representations

Exposé de Elmar Grosse-Klonne
(Berlin)

Résumé :

Let F be a finite extension of \mathbb{Q}_p , let $n \in \mathbb{N}$, let k be a (sufficiently large) field of characteristic p . Put $G = \mathrm{GL}_n(F)$. Modules over the pro- p -Iwahori-Hecke algebra H (over k) of G may be thought of as approximating admissible smooth G -representations over k ; a particular role is played by the so called supersingular ones. I will discuss an exact and fully faithful functor from the category of supersingular finite dimensional H -modules to the category of $\mathrm{Gal}(\overline{F}/F)$ -representations over k .