

Séminaire Groupes Réductifs et Formes Automorphes

Le 6 mai 2019 à 10h30 (Jussieu)

Breuil-Mézard conjectures for central division algebras.

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Résumé :

The Breuil–Mézard conjecture relates the special fibers of local Galois deformation rings to the mod p reduction of types for $GL(n)$. The known cases of this relation have powerful global consequences, and provide evidence for the existence of a p -adic local Langlands correspondence.

In this talk we show that the conjecture implies an analogous statement for discrete series Galois deformations and unit groups of p -adic central division algebras. The main step is to construct a Jacquet-Langlands transfer of Serre weights to $GL(n)$, and to prove its compatibility with the reduction of types : this requires to prove a conjecture of Broussous, Sécherre and Stevens on the explicit description of the Jacquet-Langlands correspondence.