

# Séminaire Groupes Réductifs et Formes Automorphes

Le 7 janvier 2019 à 10h30 (PRG)

## Representations of $p$ -adic groups

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### Résumé :

In the 1990s Moy and Prasad revolutionized the representation theory of  $p$ -adic groups by showing how to use Bruhat-Tits theory to assign invariants to representations of  $p$ -adic groups. The tools they introduced resulted in rapid advancements in both representation theory and harmonic analysis – areas of central importance in the Langlands program. A crucial ingredient for many results is an explicit construction of (types for) representations of  $p$ -adic groups. In this talk I will indicate why, survey what constructions are known and present recent developments based on a refinement of Moy and Prasad's invariants.