

# Séminaire Groupes Réductifs et Formes Automorphes

Le 19 mars 2018 à 10h30 (PRG)

## Extending torsors on the punctured spectrum of $A_{\text{inf}}$ .

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### Résumé :

For constructing integral canonical models of Shimura varieties as achieved by Kisin-Pappas for parahoric level a key construction is provided by extending a torsor under a parahoric group scheme on the punctured spectrum of Breuil-Kisin's ring  $W(k)[[u]]$  to the whole spectrum. Namely, this allows a crystalline realization of the parahoric group scheme in question and therefore a study of the local structure of the integral model by deformation theory for  $p$ -divisible groups. We want to discuss analogous results on extending torsors on the punctured spectrum of  $A_{\text{inf}}$  and present some applications to mixed characteristic affine Grassmannians.