

Séminaire Groupes Réductifs et Formes Automorphes

Le 8 avril 2019 à 10h30 (Jussieu)

A Comparison of unitary Rapoport-Zink spaces and the arithmetic fundamental lemma.

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Résumé :

We prove a comparison isomorphism of two PEL-type Rapoport-Zink spaces. One space is formulated in terms of strict \mathcal{O}_F -modules, the other in terms of p -divisible groups with (non-strict) \mathcal{O}_F -action. This result was originally motivated by the Arithmetic Fundamental Lemma of Wei Zhang which he has now proven in full generality. We will explain this motivation and how the comparison makes the direct computation of some cases possible.