

Séminaire Groupes Réductifs et Formes Automorphes

Le 22 mai 2017 à 10h30 (Jussieu)

Local models of Shimura varieties.

Exposé de Daniel Kirch
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Résumé :

In this talk I will give an overview over the theory of local models. This overview will include a discussion of the 2-adic case, where a general theory is not yet developed, and I will cover some of difficulties encountered there. The main examples are the case of a split orthogonal group and the unitary ramified case. In these cases, I will give a definition of “naive” (non-flat) local models whenever the dimension is even and suggest some conditions to describe the flat closure. In the unitary case, I will show that the local model is Cohen-Macaulay (and hence flat) under some mild assumptions.