

Séminaire Groupes Réductifs et Formes Automorphes

Le 30 avril 2018 à 10h30 (PRG)

Vanishing theorems for Siegel modular varieties of infinite Γ_1 -level.

Exposé de Christian Johansson
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Résumé :

I will discuss a vanishing theorem for singular/etale cohomology with \mathbb{F}_p -coefficients as one takes the direct limit over the tower of Siegel modular varieties with $\Gamma_1(p^n)$ -level structure. I will focus on the geometry that goes into the proof; if there is time I will talk about an application to Scholze's construction of Galois representations for torsion classes. This is joint work with Caraiani, Gulotta, Hsu, Mocz, Reinecke and Shih.