

Séminaire de théorie des nombres

Le 10 novembre 2025 à 14h (Jussieu)

Equidistribution of CM points via Drinfeld uniformisation and theta series

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Résumé : In this talk I will discuss the equidistribution of reductions of Galois orbits of CM points on Shimura curves over totally real number fields. The first part will be devoted to a geometric description of the curves and of their moduli interpretation, with particular focus on the Cerednik-Drinfeld uniformization, which is a novel ingredient in this equidistribution setting. Subsequently, I will explain how to connect the geometric data to automorphic theta series and eventually deduce the desired equidistribution exploiting subconvexity bounds on their Fourier coefficients. Lastly, I will mention an application to an integral version of the Andre'-Oort conjecture.