

Séminaire de théorie des nombres

Le 30 septembre 2019 à 14h (PRG)

Heights and isogenies of Drinfeld modules

Exposé de Florian Breuer
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Résumé : We discuss various notions of heights of Drinfeld modules and prove an explicit bound on the difference of heights of two isogenous Drinfeld modules. As applications, we give a new proof of the finiteness of isomorphism classes of Drinfeld modules over a global field in an isogeny class, as well as explicit bounds on the coefficients of Drinfeld modular polynomials in the case of rank $r=2$. (Joint work with Fabien Pazuki and Mahefason Heriniaina Razafinjatovo).