Du
04
MARS.
2020

14h00
-
15h00

RÉGA

Kęstutis Česnavičius - 14h00 - The Manin constant and the modular degree

Jussieu
15-25 502

INSCRIPTION

Abstract: By the modularity theorem, an elliptic curve E over Q of conductor N admits a surjection phi from the modular curve X_0(N). The Manin constant c of such a modular parametrization of E is the integer that scales the differential associated to the normalized newform on Gamma_0(N) determined by the isogeny class of E to the phi-pullback of a Néron differential of E. For optimal phi Manin conjectured his constant to be 1, and we show that in general it divides deg(phi) under mild assumptions at the primes 2 and 3. This gives new restrictions on the primes that could divide the Manin constant. The talk is based on joint work with Michael Neururer and Abhishek Saha.

URL de la page : https://www.ihp.fr/fr/agenda/kestutis-cesnavicius-14h00-manin-constant-and-modular-degree&is_pdf=true



INSTITUT HENRI POINCARÉ - UAR839

Sorbonne Université / CNRS
11 rue Pierre et Marie Curie
75231 Paris Cedex 05

HORAIRES

L'institut :
• lundi au vendredi de 8h30 à 18h,
• fermé les jours fériés.

Le musée - Maison Poincaré :
• lundi, mardi, jeudi et vendredi
de 9h30 à 17h30,
• samedi de 10h à 18h,
• fermé le mercredi et le dimanche.

URL de la page : https://www.ihp.fr/fr/agenda/kestutis-cesnavicius-14h00-manin-constant-and-modular-degree&is_pdf=true