



Du
05
JAN.
2022

14h00

-

15h15

RÉGA

Giada Grossi - 14h00 - Iwasawa main conjectures for elliptic curves and arithmetic consequences. (Ajourné d'un mois à cause du Covid)

INSCRIPTION

Iwasawa theory was introduced around 1960 in the context of class groups of $\mathbb{Z}_p$ -extensions of number fields. In the 1970's the ideas of Iwasawa theory were extended to elliptic curves: the Main Conjectures relate certain Galois cohomology groups (the algebraic side) with p -adic L-functions (the analytic side). Like the original Main Conjecture of Iwasawa, these Main Conjectures have consequences, via the so-called control theorems, for the related special value formulas and one key tool used to prove them is the theory of Euler systems. In this talk, I'll give an overview of these ideas in the case of elliptic curves and explain how, making use of the Euler system of Heegner points, these results can be proved and used to deduce the p -part of the Birch-Swinnerton-Dyer conjecture when the rank is at most one.



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.