Séminaire de théorie des nombres

Le 16 janvier 2017 à 14h (Jussieu)

Iterated p-adic integrals and rational points on curves

Exposé de Jennifer Balakrishnan
(Boston University)

Résumé : I will discuss some new relationships between iterated p-adic line integrals (Coleman integrals), motivated by the problem of explicitly finding rational points on curves. In particular, I will describe the link between p-adic heights and double integrals and give a few classes of hyperelliptic curves where "quadratic Chabauty" gives us a finite set of p-adic points containing all rational points. This is joint work with Netan Dogra.