Séminaire de théorie des nombres

Le 08 avril 2019 à 14h (Jussieu)

On the asymptotic Fermat conjecture

Exposé de Samir Siksek
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Résumé : The asymptotic Fermat conjecture states that for a number field K there is a constant B_K such that for primes $p \geq B_K$ the only K-rational points on the Fermat curve $X^p + Y^p + Z^p = 0$ are the obvious ones. In this talk we survey joint work with Nuno Freitas, Alain Kraus and Haluk Sengun, on the asymptotic Fermat conjecture. In particular we prove AFC for family of number fields $K = \mathbb{Q}(\zeta_{2^r})^+$.