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## Yukako KEZUKA . On the conjecture of Birch and Swinnerton-Dyer for certain elliptic curves with complex multiplication.

vendredi 28 juin 2019 10:15 (1 heure)

Abstract: This talk will describe recent joint work in progress with J. Coates, Y. Li and Y. Tian. Let K be the imaginary quadratic field Q(sqrt{-q}), where q is any prime congruent to 7 modulo 16. Let A be the Gross curve defined over the Hilbert class field H of K, with complex multiplication by the ring of integers of K. In their most recent work, Coates and Li found a large family of quadratic twists E of A whose complex L-series L(E/H,s) does not vanish at s=1. We will discuss the p-part of the Birch and Swinnerton-Dyer conjecture for these curves for every prime p which splits in K (in particular, this includes p=2).