Séminaire de théorie des nombres

Le 13 octobre 2025 à 14h (Jussieu)

Anticyclotomic Iwasawa theory of CM elliptic curves at additive primes

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Résumé : Iwasawa theory of CM elliptic curves is well developed for primes p split in the CM field (good ordinary case), and has applications to the BSD conjecture. In contrast, for p inert (good supersingular) or ramified (bad additive), new phenomena occur and the theory is still fragmentary. For the anticyclotomic deformation at an inert prime, the last few years has seen progress due to the work of Kobayashi-Ota- , following Rubin's pioneering work in the mid 80's. In this talk, we report on a similar progress for ramified primes (joint with S. Kobayashi, K. Nakamura and K. Ota).