

Séminaire de théorie des nombres

Le 14 janvier 2013 à 14h (Jussieu)

Anticyclotomic Iwasawa main conjecture for modular forms

Exposé de Masataka Chida
(Kyoto)

Résumé :

This is a joint work with Ming-Lun Hsieh. In the fundamental work of Bertolini-Darmon on anticyclotomic Iwasawa theory for elliptic curves, they proved onside divisibility of anticyclotomic Iwasawa main conjecture for elliptic curves over \mathbb{Q} using an Euler system obtained by CM points on Shimura curves and the level raising of modular forms.

In this talk, we will generalize their work to higher weight modular forms using an explicit construction of congruence among modular forms of different weights. Also we will discuss on some applications of our result.