

Title: Modular forms, Iwasawa theory, and vanishing of L -functions

Abstract: In this talk, I will discuss conjectures concerning the vanishing of two p -adic L -functions (one analytic, one algebraic) attached to a modular form f . Both L -functions arise from Hida theory, and the conjectures state roughly that their order of vanishing along a certain set of points is controlled by the sign in the functional equation of the classical L -function of f .