

Stickelberger elements of non-ordinary modular forms – Robert Pollack

Abstract: In this talk, we will discuss progress on attaching analytic Iwasawa invariants to modular forms with non-ordinary reduction at a prime p . These invariants should neatly encode the p -adic valuations of special values of the corresponding complex L -series. For forms of weight 2, such invariants were first defined by Perrin-Riou. For higher weight forms the situation remains quite mysterious – in this talk, we aim to address only forms which are congruent to some weight 2 form, and to give at least a (conjectural) description of invariants in this case. This is a joint project with Tom Weston.