

Abstract

The idea of looking at the Iwasawa theory of a continuously varying family of modular forms instead of the one of just one modular form, has lead to many important results. In the particular case where the Selmer groups and zeta functions are defined with respect to the cyclotomic extension and the modular forms are ordinary the behavior of the Iwasawa Invariants in families is known: It has been shown that the μ -invariant is locally constant in the family and that the λ -invariant is constant, provided the μ -invariant vanishes. This theorem has been generalized in many directions. In my talk I would like to present an analogue result, where we only allow 1-parameter families, but the Galois extension can be a rather general p-adic Lie extension containing the cyclotomic one and, instead of a family of modular forms, we can take any nearly ordinary family of p-adic representations.