
DEBANJANA KUNDU, Fields Institute

λ -invariant stability in Families of Modular Galois Representations

Consider a family of modular forms, all of whose residual $(\text{mod } p)$ Galois representations are isomorphic. It is well-known that their corresponding Iwasawa λ -invariants may vary. We will discuss this variation from a quantitative perspective, providing lower bounds on the frequency with which these λ -invariants grow or remain stable. This is joint work with Jeff Hatley.