

Transcendence of Hecke Operators

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Abstract

We prove a transcendence result of Hecke operator $T(q)$ for a prime q over the ring generated by diamond operators over \mathbb{Q} in a non-CM component of the cyclotomic ordinary big p -adic Hecke algebra and discuss its conjectural implication of a modulo p version to the vanishing of the cyclotomic Iwasawa μ -invariant.