

Local units in non-commutative Galois extensions

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Iwasawa, Coates-Wiles, and Coleman obtained the “almost isomorphism” of the Iwasawa-modules:

(the tower of local units) \rightarrow (Iwasawa algebra)

for the cyclotomic extensions of \mathbb{Q}_p . I discuss how to generalize this to a tower of non-commutative Galois extensions and give a partial result.