

On Iwasawa theory of elliptic units and 2-ideal class groups

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Abstract. We use Euler systems to prove that, given an imaginary quadratic field k in which 2 splits completely, a prime p of k above 2 and a number field K_0 abelian with odd degree over k , then, in the unique \mathbb{Z}_2 -extension of K unramified outside of p and abelian over k , the characteristic ideal of the projective limit of the 2-class groups divides the characteristic ideal of the projective limit of units modulo elliptic units. Our method follows closely the ideas of Rubin in [15].

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