

Some properties of the symbol algebras

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ABSTRACT.

In this paper, we obtain some properties of the symbol algebras, starting from their connections with the quaternion and cyclic algebras over a field K_p , where K is an algebraic number field, p is a prime in K and K_p is the completion of K with respect to p -adic valuation, in the case when $K = \mathbb{Q}(\varepsilon)$, $\varepsilon^3 = 1$, $\varepsilon \neq 1$.

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