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Artin symbol of the Kummer fields

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ABSTRACT. Let l and p be odd prime distinct natural numbers, ξ be a primitive root of order l of unity. It is known that the field extension $\mathbf{Q}(\xi) \subset \mathbf{Q}(\xi, \sqrt[l]{p})$ is a Galois extension. In this article we study the Artin symbol in the Galois group $G(\mathbf{Q}(\xi, \sqrt[l]{p})/\mathbf{Q}(\xi))$.

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