

Generating elements and isometric Galois actions over Tate fields

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Abstract. For a prime number p , let T be an element of the field \mathbb{C}_p , which is the completion of the algebraic closure of the p -adic number field \mathbb{Q}_p . In this paper, we study the class of generic elements of $\widetilde{\mathbb{Z}_p[T]}$ by relating this class with an algebraic-metric equivalent relation, which is defined by isometric Galois actions of the p -adic absolute Galois group.

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