

A generalization of the Milnor K-ring of a field

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We introduce a generalization of the Milnor K-ring of a field, which reflects in a quite natural way the arithmetic structure of the field: its valuations, orderings, as well as some of its local-global properties. Our results extend the well-studied structure theory of the maximal pro- p Galois group of a field containing a primitive p -th root of unity (p prime).