

Suslin, Andrei A.

On the K-theory of local fields. (English) Zbl 0548.12009
J. Pure Appl. Algebra **34**, 301-318 (1984).

The author completes his proof of the Lichtenbaum conjecture on the algebraic K-theory of an algebraically closed field. In [Invent. Math. **73**, 241-245 (1983; [Zbl 0514.18008](#))] he showed that it suffices to take one field of each characteristic. Here, by considering local rings, he shows that one needs only one field altogether. He computes the K-theory of the complex numbers (also of the real numbers), and so makes the proof independent of computations for fields of finite characteristic.

Reviewer: [R.Steiner](#)

MSC:

[11S70](#) K-theory of local fields
[18F25](#) Algebraic K-theory and L-theory (category-theoretic aspects)
[13D15](#) Grothendieck groups, K-theory and commutative rings

Cited in **4** Reviews
Cited in **56** Documents

Keywords:

[Henselian valuation rings](#); [K-theory of local fields](#); [K-theory of algebraically closed fields](#); [Lichtenbaum conjecture](#)

Full Text: [DOI](#)

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