

عنوان مقاله:

Witt rings of quadratically presentable fields

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خلاصه مقاله:

This paper introduces an approach to the axiomatic theory of quadratic forms based on presentable partially ordered sets, that is partially ordered sets subject to additional conditions which amount to a strong form of local presentability. It turns out that the classical notion of the Witt ring of symmetric bilinear forms over a field makes sense in the context of quadratically presentable fields, that is, fields equipped with a presentable partial order inequationally compatible with the algebraic operations. In particular, Witt rings of symmetric bilinear forms over fields of arbitrary characteristics are isomorphic to Witt rings of suitably built quadratically presentable fields.

کلمات کلیدی:

Quadratically presentable fields, Witt rings, hyperfields, quadratic forms

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