

Röndigs, Oliver; Østvær, Paul**Slices of Hermitian K -theory and Milnor's conjecture on quadratic forms.** (English)[Zbl 1416.19001](#)

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Summary: We advance the understanding of K -theory of quadratic forms by computing the slices of the motivic spectra representing hermitian K -groups and Witt groups. By an explicit computation of the slice spectral sequence for higher Witt theory, we prove Milnor's conjecture relating Galois cohomology to quadratic forms via the filtration of the Witt ring by its fundamental ideal. In a related computation we express hermitian K -groups in terms of motivic cohomology.

MSC:

- [19G38](#) Hermitian K -theory, relations with K -theory of rings
- [11E70](#) K -theory of quadratic and Hermitian forms
- [11E04](#) Quadratic forms over general fields
- [14F42](#) Motivic cohomology; motivic homotopy theory
- [55P42](#) Stable homotopy theory, spectra
- [55T05](#) General theory of spectral sequences in algebraic topology

Cited in **1** Review
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Keywords:motivic cohomology; quadratic forms; slices of Hermitian K -theory and Witt theory**Full Text:** [DOI](#) [arXiv](#)