

[Voevodsky, V.](#)

On the zero slice of the sphere spectrum. (English) [Zbl 1182.14012](#)

Proc. Steklov Inst. Math. 246, 93-102 (2004) and Tr. Mat. Inst. Steklova 246, 106-115 (2004).

Summary: We prove the motivic analogue of the statement saying that the zero stable homotopy group of spheres is \mathbb{Z} . In topology, this is equivalent to the fact that the fiber of the obvious map from the sphere S^n to the Eilenberg-MacLane space $K(\mathbb{Z}, n)$ is $(n + 1)$ -connected. We prove our motivic analogue by an explicit geometric investigation of a similar map in the motivic world. Since we use the model of the motivic Eilenberg-MacLane spaces based on the symmetric powers, our proof works only in zero characteristic.

For the entire collection see [\[Zbl 1087.14002\]](#).

MSC:

[14F42](#) Motivic cohomology; motivic homotopy theory
[55P42](#) Stable homotopy theory, spectra

Cited in **1** Review
Cited in **14** Documents

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