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Youngsoo Kim^{*} (ykim33@illinois.edu), University of Illinois at Urbana-Champaign, Department of Mathematics, 1409 W. Green Street, Urbana, IL 61801. *Motivic symmetric ring* spectrum representing algebraic K-theory.

Voevodsky showed that there is a motivic spectrum representing algebraic K-theory. An equivalent spectrum that is also a symmetric ring spectrum is constructed using Gillet-Grayson K-theory. A coherence problem occurs when one verifies the symmetry. It is solved by introducing the concept of standard vector bundles, which is a category of vector bundles with strictly associative tensor product that is also strictly commutative with line bundles. (Received September 22, 2009)