

Higher algebraic K -theory of forms and Karoubi's fundamental theorem

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Abstract

Building on work of Balmer, Thomason and Waldhausen, we extend Karoubi's hermitian K -theory to categories of chain complexes with duality. This yields descent theorems for hermitian K -groups of (non-necessarily smooth) schemes. We also obtain a generalization (and new interpretation) of Karoubi's fundamental theorem.