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Localizing Invariants and Algebraic K-theory (2/3)

mardi 11 juillet 2023 11:15 (1h 15m)

It was a fundamental insight by Thomason (building on work of Waldhausen) that algebraic K-theory of a ring or scheme could be defined via the category of perfect complexes and that K-theory sends a Verdier quotient sequence of such categories to a fiber sequence of spectra. In modern terms: K-theory is a localizing invariant. This in particular yields descent properties, e.g. Nisnevich descent, for K-theory or more generally any localizing invariant. I plan to give an introduction to these by now classical topics and discuss recent developments and applications, in particular for algebraic K-theory.

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