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Title: Categorified K-theoretic assembly

Abstract: In the context of algebraic K-theory, a classical question is whether for a group  $G$  the assembly map  $A(*) \otimes BG \rightarrow A(BG)$  is split injective.

This talk aims to show that, in some cases, this result can be proven by establishing a corresponding decomposition of localizing motives for categories with  $G$ -action. I will explain that this method works under the assumption of Carlsson-Pedersen that appropriate equivariant compactifications of a model of  $EG$  exist. One can interpret this method as an analogue of the Gamma element method, which is used to prove split injectivity of the Baum-Connes assembly map. The talk is based on joint work with Georg Lehner.