

Oberseminar Topologie: 08.11.2023

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Title: A twisted Bass-Heller-Swan decomposition for localising invariants

Abstract: Classically, the Bass–Heller–Swan decomposition relates algebraic K-theory of a Laurent polynomial ring to algebraic K-theory of its coefficient ring. In this talk, I will explain how to obtain a generalisation of this result in the setting of localising invariants of stable infinity-categories that come with an automorphism. Furthermore, I'll explain regularity conditions under which the relevant assembly map is an equivalence. As an application one gets a splitting result for Waldhausen's A-theory of mapping tori. Based on joint work with Christian Kremer.