

Oberseminar Topologie: 26.05.2025

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Title: Formal gluings in K-theory via dualisable categories

Abstract: The study of descent properties of K-theory plays an important role in understanding its values and behaviour in many geometric contexts. In this talk, I will explain a construction of certain diagrams arising from formal gluing situations for which continuous K-theory, and more generally all localising invariants, satisfy descent, from the perspective of dualisable categories. I will also discuss how this encompasses both Clausen—Scholze’s gluing result for analytic adic spaces and an adelic descent result for dualisable categories.