

Homotopy Theory Seminar

Noncommutative motives and secondary K-theory

Tasos Moulinos (UIC)

Abstract: A modern interpretation of (nonconnective) algebraic K-theory is as a universal invariant of small stable infinity categories. In the first part of this talk we introduce the concepts needed to make this statement precise. We then go on to describe the proof of the corepresentability of K-theory in a suitable category of noncommutative motives developed by Blumberg, Gepner, and Tabuada. We conclude by introducing a version of secondary algebraic K-theory in this context, as well as providing some motivating questions for its study.

Friday, October 28 at 12:30 PM in SEO 1227