

Algebraic K-Theory Seminar

Commutative algebra of categories

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Abstract: Many familiar categories themselves have ring structures, with a multiplicative operation distributing over an additive operation. In \mathbf{Set} , Cartesian product distributes over disjoint union, while in \mathbf{Vect} , tensor product distributes over direct sum. The commutative algebra and algebraic geometry of these ring categories provides a natural home for both the study of algebraic theories (such as Lawvere theories and operads), as well as higher algebraic K-theory. Time permitting, we will mention some intended applications to equivariant homotopy theory.

Wednesday, October 4 at 10:30 AM in SEO 1227