



Speaker: Cary Malkiewich
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Thursday, November 6, 2014
3:15pm
258 Hurley Hall

Title: Coassembly in algebraic K-theory

Abstract:

The coassembly map allows us to approximate any contravariant homotopy-invariant functor by an excisive functor, i.e. one that behaves like a cohomology theory. We apply this construction to a contravariant form of Waldhausen's algebraic K-theory of spaces, and its corresponding THH functor. The results are somewhat surprising: a certain dual form of the A-theory Novikov conjecture is false, but when the space in question is the classifying space BG of a finite p -group, coassembly on THH is split surjective after p -completion. The method of proof suggests new conjectures about both the assembly and coassembly maps for the A-theory of BG . If there is time, we will also discuss related work on the equivariant structure of THH.