

Topology Seminar

Akhil Mathew

of University of Chicago will be speaking on

p -adic K -theory and topological cyclic homology

on September 10 at 4:30 in
MIT Room 2-131

The cyclotomic trace from algebraic K -theory to topological cyclic homology (TC) is an important tool in describing the p -adic K -theory of p -adic rings, and has been used in several computations (such as Hesselholt-Madsen's computation of the K -theory of local fields). TC, while more complicated to define, has somewhat simpler formal properties than K -theory and is as a result often easier to compute. I will describe some new results to the effect that TC is a strong approximation to p -adic K -theory, and some resulting structural consequences for p -adic K -theory. This is joint work with Dustin Clausen and Matthew Morrow.

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