

# Topology Seminar

**Andrew Blumberg**

of UT Austin will be speaking on

## Algebraic K-theory and number theory

on February 7 at 4:30 in  
MIT Room 2-190

Nearly 40 years ago, Bousfield and Ravenel noticed that the operations on  $p$ -adic complex K-theory are abstractly closely related to the Iwasawa algebra. In the mid-90's, Dwyer and Mitchell used this observation to describe the topological K-theory of the algebraic K-theory of  $\mathbb{Z}$  in terms of  $p$ -adic L-functions. In this talk, I will give a gentle introduction to this amazing story and then explain work with Mike Mandell which extends these results and suggests a program for using topological information to answer number-theoretic questions.

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