

Topology Seminar

Ben Antieau

of University of Illinois at Chicago will be speaking on

Negative and homotopy K-theory of ring spectra and extensions of the theorem of the heart

on February 27 at 4:30 in
MIT Room 2-131

Barwick proved that the K-theory of a stable infinity-category with a bounded t -structure agrees with the K-theory of its heart in non-negative degrees. Joint work with David Gepner and Jeremiah Heller extends this to an equivalence of nonconnective K-theory spectra when the heart satisfies certain finiteness conditions such as noetherianity. Applications to negative K-theory and homotopy K-theory of ring spectra are provided, which were the original motivation for our work.