

Topology Seminar

Saul Glasman

of Institute for Advanced Study will be speaking on

Categorical Tate constructions and cyclotomicity

on May 9 at 4:30 in
MIT Room 2-131

I'll give an exposition of the stratification viewpoint on equivariant homotopy theory, and describe how this helps inspire new approaches to equivariant algebraic K-theory. I'll propose a categorification of the classical norm cofibration sequence for a cyclic group of prime order and the equivariant fracture square, with a version of the stable module category standing in for the Tate spectrum, leading to a K-theoretic approximation to the Hill-Hopkins-Ravenel norm. Cyclotomic spectra look enotically perspicuous in the stratification picture, and if possible I'll begin to describe how it harmonizes with our theory of cyclonic objects to give a natural construction of the THH of a Waldhausen infinity-category. This is joint work in progress with Clark Barwick.