

# Topology Seminar

**Nat Stapleton**

of Max Planck Institute will be speaking on

## The infinite prime in chromatic homotopy theory

on May 9 at 3:30 in  
MIT Room 2-131

The behavior of the category of  $E_n$ -local spectra simplifies in various ways as  $p \rightarrow \infty$ . For a collection of categories indexed by the prime numbers we construct a category 'at the infinite prime' that captures behavior of all but finitely many of the input categories. We then apply this construction to the  $E_n$ -local and  $K(n)$ -local situations and analyze the resulting categories. This talk represents joint work with Barthel and Schlank.