

# Topology Seminar

**Anna Marie Bohmann**

of Northwestern University will be speaking on

## An equivariant infinite loop space machine

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

An equivariant infinite loop space machine should turn categorical or algebraic data into genuine spectra. While infinite loop space machines have been a crucial part of homotopy theory for decades, equivariant versions are in early stages of development.

I will describe joint work with A. Osorno in which we build an equivariant infinite loop space machine that starts with diagrams of categories on the Burnside category and produces a genuine  $G$ -spectrum via the work of Guillou-May. This machine readily applies to produce Eilenberg-MacLane spectra for Mackey functors and topological  $K$ -theory.