

# Topology Seminar

## Arnav Tripathy

of Harvard University will be speaking on

### A geometric model for complex analytic equivariant elliptic cohomology

on December 3 at 4:30 in  
MIT Room 2-131

A long-standing question in the study of elliptic cohomology or topological modular forms has been the search for geometric cocycles. I will explain joint work with D. Berwick-Evans which turns Segal's physically-inspired suggestions into rigorous cocycles for the case of equivariant elliptic cohomology over the complex numbers, with some focus on the role of supersymmetry in allowing for the possibility of rigorous mathematical definition. As time permits, I hope to indicate towards the end how one might naturally extend these ideas to higher genus.

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