# Topology Seminar

## John Palmieri

of University of Washington will be speaking on

# Algebraic topology vs. Sage

on May 10 at 4:30 in
MIT Room 2-131

The computer software package Sage (`www.sagemath.org`) understands some basic constructions from algebraic topology: it understands simplicial complexes, cubical complexes, and it seems to be the only major mathematical software package with an implementation of $\Delta$-complexes. It can perform basic operations like joins, products, and connected sums. It can compute homology and cohomology over the integers or over a field. In this talk, we will discuss and demonstrate some of these capabilities, present some related unsolved problems, and discuss future directions.