

Topology Seminar

Aaron Landesman

of Harvard University will be speaking on

The stable homology of dihedral group
Hurwitz spaces and the Cohen-Lenstra
heuristics

on November 18 at 4:30 in
MIT Room 2-131

Hurwitz spaces are moduli spaces for certain branched covers of the disc. In a 2016 *Annals* paper, Ellenberg-Venkatesh-Westerland showed that the homology of Hurwitz spaces associated to dihedral groups stabilize as one increases the number of branch points. However, their work left open the question of what the homology stabilizes to. In joint work with Ishan Levy, we compute the stable value of these homology groups. As a consequence, we are able to verify many predictions of the Cohen-Lenstra heuristics in number theory.