

Topology Seminar

Søren Galatius

of Stanford University will be speaking on

homotopy colimit decomposition of
compactified moduli space

on September 15 at 4:30 in
MIT Room 2-131

The moduli space of Riemann surfaces M is a classifying space for families of Riemann surfaces. It has a compactification \bar{M} , which is a classifying space for families of nodal Riemann surfaces. A nodal Riemann surface is allowed to have singularities which look like the solutions to $zw = 0$ in complex 2-space. I will describe how to decompose \bar{M} as a homotopy colimit of spaces which look more like M . Then I will use this to study part of the homology of \bar{M} , using what is known about the homology of M .