# TOPOLOGY SEMINAR

# Minimal number of involution generators for the mapping class group

**By**

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**Abstract:** The mapping class group Mod(Σg) of a closed oriented surface Σg of genus g is the group of isotopy classes of orientation–preserving diffeomorphisms Σg → Σg. It is a fundamental object in low-dimensional topology. It is known that this group can be generated by finitely Dehn twists, torsion elements and also by involutions. In this talk I will discuss how to generate the group Mod(Σg) with the smallest number of generators consisting of these types of elements, particularly our recent result on involutions: Mod(Σg) is generated by three involutions.

**Date:** November 4, 2019 Monday
**Time:** 13:40 – 14:40
**Place:** SA141 Mathematics Seminar Room

* Tea and cookies will be served after the talk. All are most cordially invited.