

Mapping class groups of Infinite graphs — "Big Out(Fn)"

Sanghoon Kwak

University of Utah

kwak@math.utah.edu

Surfaces and graphs are closely related; there are many parallels between the mapping class groups of finite-type surfaces and finite graphs, where the mapping class group of a finite graph is the outer automorphism group of a free group of (finite) rank. A recent surge of interest in infinite-type surfaces and their mapping class groups begs a natural question: What is the mapping class group of an "infinite" graph? In this talk, I will explain the answer given by Algom-Kfir and Bestvina, and present recent work, joint with George Domat and Hannah Hoganson, on the coarse geometry of such groups.

(joint work with George Domat, Hannah Hoganson)