

Complexity of Thurston Decidability

Dzmitry Dudko, Stony Brook University

Given a Thurston map f , its mapping class biset is the set of maps obtained by pre- and post-composing f by the pure mapping class group. The mapping class biset is finitely generated. We will discuss the conjecture that Thurston equivalence, viewed as the conjugacy problem in mapping class bisets, can be reduced in polynomial time to the conjugacy and centralizer problems in mapping class groups.