

1147-37-738

Nikita Selinger*, selinger@uab.edu. *Decidability of Thurston equivalence.*

In a joint work with M. Yampolsky, we gave a classification of Thurston maps with parabolic orbifolds based on our previous results on characterization of canonical Thurston obstructions. In this work, joint with K. Rafi and M. Yampolsky, we obtain results on bounding the complexity of generators of the self-equivalence group of a Thurston map, which allows us to prove the existence of an algorithm that checks whether two Thurston maps are equivalent. (Received January 28, 2019)