

1127-37-250

Dzmitry Dudko*, Institute for Mathematical Sciences, Mathematics Department, Stony Brook University, Stony Brook, NY 11794-3651, and **Laurent Bartholdi**. *Decidability of Thurston equivalence*.

We consider Thurston maps: branched self-coverings of the sphere, and prove that the Thurston equivalence problem between them (conjugacy combined with isotopy relative to the critical orbits) is decidable. In the talk we will compare Thurston maps with surface homeomorphisms; to illustrate the difference, we produce a Thurston map with infinitely generated centralizer –while centralizers of homeomorphisms are always finitely generated. (Received February 05, 2017)