Michelle Chu*, University of Texas at Austin, Department of Mathematics, RLM 8.100, 2515 Speedway Stop C1200, Austin, TX 78712, and Han Li. Small generators of cocompact arithmetic Fuchsian groups.

In the study of Fuchsian groups, it is a nontrivial problem to determine a set of generators. Using a dynamical approach we construct for any cocompact arithmetic Fuchsian group a fundamental region in $\text{SL}_2(\mathbb{R})$ from which we determine a set of small generators. (Received January 12, 2016)