Applications of Kleinian groups to 3-manifold topology

Ian Agol
University of Illinois at Chicago

Abstract. Recent progress on the classification of Kleinian groups (interpreted broadly as discrete subgroups of $\mathrm{PSL}(2,\mathbb{C})$ including the tameness conjecture of Marden and ending lamination conjecture of Thurston, has led to progress on understanding various properties of hyperbolic 3-manifolds (corresponding to Kleinian groups of cofinite volume). We'll explain the results in Kleinian groups, and explain their application to hyperbolic 3-manifolds.