

Ahlfors' measure problem for geometric limit Kleinian groups

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Abstract

In this talk, I present topological properties of ends of a hyperbolic 3-manifold $M = \mathbf{H}^3/G$ such that G is a geometric limit of a certain algebraically convergent sequence of geometrically finite Kleinian groups. As an application, I will prove that the limit set $\Lambda(G)$ of G has either zero or full measure in $\widehat{\mathbf{C}}$. Note that, in general, M has infinitely many relative ends and moreover infinitely many of which are neither simply degenerate nor geometrically finite.