

Facets and Hausdorff dimension in the cone of Margulis spacetimes

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Deformations of infinite-area hyperbolic surfaces that expand (or equivalently contract) every lamination on the surface correspond to proper affine representations of the free group on \mathbb{R}^3 . Such deformations form an open cone in the tangent space to Teichmüller space, and with Goldman and Margulis we study the boundary of this cone.