

# The renormalized volume of 3-dimensional hyperbolic manifolds

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Conformally compact Einstein manifolds have infinite volume, but a well-defined notion of renormalized volume, introduced by theoretical physicists. For 3-dimensional hyperbolic manifolds, this notion has interesting relations to other quantities studied by geometers, such as the volume of the convex core and the bending lamination on its boundary. We will describe how the relation between the physics and the mathematics points of view can bring new perspectives on both sides.

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