

Survey on volumes of hyperbolic 3-manifolds

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Abstract. Jorgensen and Thurston showed that the set of volumes of hyperbolic 3-orbifolds and manifolds are well-ordered. It has been an interesting question to identify the smallest volume hyperbolic 3-orbifold and manifold, which has been accomplished only recently. It is also interesting to find the smallest volume manifolds with various sorts of topological restrictions, or to give volume bounds in terms of topological information. We will give a survey of these results.