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Volume entropy rigidity for hyperbolic manifolds.

This is joint work with Xiaodong Wang.

Consider a compact manifold of dimension n and Ricci curvature $\geq -(n-1)$. Then the volume entropy of the universal cover is at most $(n-1)$. We prove that it is exactly $(n-1)$ only in the case of constant curvature -1 . (Received August 31, 2010)