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Equivalence of marked length spectrum, geodesic flow and boundary of universal cover of Riemannian manifolds with negative curvature

marked length spectrum, geodesic flow and boundary of the universal cover

$\bar{X}, \bar{Y}$ closed neg. curv. mfd's, $K \leq -1$, $\phi: \Gamma_1 = \pi_1(\bar{X}) \rightarrow \Gamma_2 = \pi_1(\bar{Y})$ isomorphism, induces equiv. homeo. $\Gamma_1 \curvearrowright \partial X \xrightarrow{f} \partial Y \curvearrowright \Gamma_2$.

Thm. TFAE:

(1) $\bar{X}, \bar{Y}$ have same marked length spectrum, i.e. $\ell_Y \circ \phi = \ell_X$.

(2) $f: \partial X \rightarrow \partial Y$ is Markov.

(3) $\exists \psi: T^1\bar{X} \rightarrow T^1\bar{Y}$ conjugating geodesic flows.

Current note has 0 direct children and 0 total descendants.

- structures based on sets
 - manifolds
 - $\mathbb{R}$ -manifold semi-Riemannian
 - Complete Riemannian manifolds
 - Riemannian manifolds with negative curvature
 - Equivalence of marked length spectrum, geodesic flow and boundary of universal cover of Riemannian manifolds with negative curvature

And it has 4 siblings.

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 - Geodesic flow on Riemannian manifolds of negative curvature
 - Discrete subgroup of isometry group of a simply connected Riemannian manifold of negative curvature
 - Rigidity of marked length spectrum for Riemannian 2-manifolds of negative curvature
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