

SEPARATING GEODESICS IN HYPERBOLIC 3-MANIFOLDS.

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ABSTRACT

In this talk, we investigate the following question: Let M be a compact hyperbolizable 3-manifold and let g and h be elements of $\pi_1(M)$. Assume that the lengths of the closed geodesics corresponding to g and h are equal for all hyperbolic structures on the interior of M . Under what condition on g are g and h then necessarily conjugate?