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Alan W Reid*, Dept of Mathematics, The University of Texas, Austin, TX 78712. *Length equivalent hyperbolic manifolds.*

Let M and N be finite volume hyperbolic n -manifolds. We say that M and N are length equivalent (resp. primitive length equivalent) if they have the same collection of lengths (resp. primitive lengths) forgetting multiplicities. This talk will describe a construction to provide length equivalent (resp. primitive length equivalent) finite sheeted covers of any finite volume hyperbolic manifold. Time permitting, we will also discuss a version of this for eigenvalues of the Laplacian. (Received August 13, 2006)