

**Meeting:** 1003, Atlanta, Georgia, SS 33A, AMS Special Session on Topics in Geometric Function Theory, I

1003-30-960      **Petra Bonfert-Taylor\*** (pbonfert@wesleyan.edu), Department of Mathematics, Wesleyan University, 265 Church Street, Middletown, CT 06455, and **Richard Canary, Gaven Martin** and **Edward C Taylor**. *The quasiconformal homogeneity of hyperbolic manifolds.*

An (orientable) hyperbolic manifold  $M$  is  $K$ -*quasiconformally homogeneous* if, given any two points  $x, y \in M$ , there exists a  $K$ -quasiconformal homeomorphism  $f : M \rightarrow M$  such that  $f(x) = y$ . If  $M$  is  $K$ -quasiconformally homogeneous for some  $K$ , we say that it is *uniformly quasiconformally homogeneous*.

In this talk we will discuss the geometric and topological constraints on uniformly quasiconformally homogeneous hyperbolic manifolds. In dimensions  $n \geq 3$  we will characterize such manifolds. The situation in dimension two is more mysterious. (Received October 01, 2004)