

Meeting: 1001, Evanston, Illinois, SS 21A, Special Session on Low-Dimensional Topology and Kleinian Groups

1001-00-433 **Dick Canary*** (canary@umich.edu), University of Michigan. *Quasiconformal homogeneity of hyperbolic manifolds.*

A hyperbolic manifold M is said to be uniformly quasiconformally homogeneous if there exists $K > 0$ such that any point of M may be taken to any other by a K -quasiconformal automorphism of M . We show that in dimension at least 3, a hyperbolic manifold is uniformly quasiconformally homogeneous if and only if it is a regular cover of a closed hyperbolic orbifold. We show that a uniformly quasiconformally homogeneous hyperbolic 3-manifold with finitely generated fundamental group is the cover of a closed hyperbolic 3-manifold fibering over the circle which is associated to the fiber. These results are joint work with Petra Bonfert-Taylor, Gaven Martin and Ed Taylor. (Received September 07, 2004)