1060-57-125 Aaron D Magid* (magid@math.udm.edu), University of Maryland, Department of Mathematics, 1301 Mathematics Building, College Park, MD 20742. The Topology of Deformation Spaces of Kleinian Groups.

For any 3-manifold M, let AH(M) denote the space of all marked hyperbolic 3-manifolds homotopy equivalent to M. This deformation space of hyperbolic manifolds is naturally a subset of the $PSL(2,\mathbb{C})$ character variety of $\pi_1(M)$. After reviewing some of the classical results that describe topology of the interior of AH(M), we will show that in many cases there are points on the boundary where AH(M) fails to be locally connected. This is a generalization of Ken Bromberg's result that the space of Kleinian punctured torus groups is not locally connected. (Received March 26, 2010)