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The Topology of Deformation Spaces of Kleinian Groups.

For any closed surface S , the deformation space $AH(S)$ is the space of all marked hyperbolic 3-manifolds homotopy equivalent to S . After reviewing some of the classical results that describe topology of the interior of $AH(S)$, we will show that there are certain points on the boundary where $AH(S)$ is not locally connected. This is a generalization of Ken Bromberg's result that the space of Kleinian punctured torus groups is not locally connected. (Received February 19, 2010)