1042-30-214 Katsuhiko Matsuzaki^{*} (matsuzak@math.okayama-u.ac.jp), Department of Mathematics, Okayama University, Tsushima-naka 3-1-1, Okayama, Okayama 700-8530, Japan. Symmetric groups that are not the symmetric conjugates of Fuchsian groups.

A quasiconformal group is a discrete group of quasiconformal automorphisms of the unit disk Δ whose maximal dilatations are uniformly bounded. A quasisymmetric automorphism of the unit circle $\partial \Delta$ is the boundary extension of a quasiconformal automorphism of Δ . A quasisymmetric group is a discrete group of quasisymmetric automorphisms of $\partial \Delta$ whose quasisymmetric constants are uniformly bounded. Markovic has proved that every quasisymmetric group is conjugate to a Fuchsian group by a quasisymmetric homeomorphism $\partial \Delta \rightarrow \partial \Delta$, or equivalently, every quasisymmetric group is the boundary extension of a quasiconformal group.

An asymptotically conformal group is a quasiconformal group whose elements are asymptotically conformal automorphisms of Δ . A symmetric automorphism of $\partial \Delta$ is the boundary extension of an asymptotically conformal automorphism of Δ . A symmetric group is a quasisymmetric group whose elements are symmetric automorphisms of $\partial \Delta$. In this talk, we consider a problem whether a symmetric group is conjugate to a Fuchsian group by a symmetric homeomorphism $\partial \Delta \rightarrow \partial \Delta$ or not. (Received August 19, 2008)