**Meeting:** 1003, Atlanta, Georgia, SS 10A, AMS Special Session on Dynamics of Mapping Class Groups on Moduli Spaces, I

1003-53-720 **Juan Souto** and **Peter Storm***, Dept. of Math, Stanford University, Stanford, CA 94305. *The Mod(S)-action on the variety of PSl(2,C)-characters.*

The mapping class group of a hyperbolic surface S acts on the variety of PSl(2,C)-characters by precomposition. This action preserves the set of discrete faithful representations. The topological dynamics of the action on the frontier of the set of discrete faithful representations (conjecturally a very fractal object) can be studied using hyperbolic geometry. These techniques will be presented. (Received September 28, 2004)