Aaron D Magid* (amagid@gmail.com), 1301 Campus Dr., University of Maryland, College Park, MD 20742, and Richard D Canary. Dynamics of the outer automorphism group on the $\text{PSL}(2, \mathbb{C})$ character variety of a 3-manifold.

Let $M$ be a compact hyperbolizable 3-manifold. We construct open sets in the $\text{PSL}(2, \mathbb{C})$ character variety on which the action of $\text{Out}(\pi_1(M))$ is properly discontinuous. These open sets depend on the characteristic submanifold of $M$. This is joint work with Richard Canary and extends previous work by Canary-Storm. (Received August 29, 2011)