1125-55-2277   **Leona Sparaco*** (`lsparaco@math.fsu.edu`). *Symmetries of Link Complements and Their Character Varieties.* Preliminary report.

The $SL_2(\mathbb{C})$ character variety of a hyperbolic 3-manifold M is essentially the set of all representations of the fundamental group of M to $SL_2(\mathbb{C})$ up to conjugation. This complex algebraic set encodes many properties of the manifold M. This talk explores the impact of a symmetry of the manifold on its character variety, focusing on some examples like the Borromean rings. (Received September 20, 2016)