

1154-VU-2442 **Leona Sparaco*** (lsparaco@holycross.edu). *Character Varieties of a Family of 2-Bridge Knots*. Preliminary report.

Let M be a hyperbolic 3-manifold of finite volume. The $SL_2(\mathbb{C})$ character variety of M is essentially the set of all representations $\rho : \pi_1 \rightarrow SL_2(\mathbb{C})$ up to trace equivalence. This is an algebraic set which encodes many geometric properties of M . In this paper we will compute the $SL_2(\mathbb{C})$ character variety for an infinite family of 2-bridge knots. (Received September 17, 2019)