

1145-54-2053 **Leona Sparaco*** (lhsparaco@smcm.edu). *Character Varieties of $(2k + 1, 3, 2k + 1)$ Knots*. Preliminary report.

Let M be an orientable finite-volume hyperbolic manifold. The $SL_2(\mathbb{C})$ character variety of M is essentially the set of all representations $\rho : \pi_1(M) \rightarrow SL_2(\mathbb{C})$ up to trace equivalence. This algebraic set encodes geometric properties of M . In this talk we will look at the character variety of the $(2k + 1, 3, 2k + 1)$ knots, a family of 2-bridge knots with symmetry. (Received September 24, 2018)