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Christopher R Cornwell* (ccornwell@towson.edu). *The double branched cover of a knot and augmentations in knot contact homology.*

We will discuss a relationship that exists between augmentations in knot contact homology and the $SL(2, \mathbb{C})$ character variety of the double branched cover over a knot. This relationship provides a computational tool for determining whether the double branched cover of a knot K is $SU(2)$ -cyclic (i.e. every representation of its fundamental group into $SU(2)$ has cyclic image). Some related results and open questions will be discussed. (Received February 16, 2021)