Charles Frohman* (frohman@math.uiowa.edu), Department of Mathematics, The University of Iowa, Iowa City, IA 52242, and Joanna Kania-Bartoszynska (jkaniab@nsf.gov), National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230. Reidemeister Torsion and the A-polynomial.

Given a knot complement, we define a seminorm on the coordinate ring of the pillowcase using Reidemeister torsion. If the character variety of the knot is sufficiently nonsingular the radical of this seminorm detects the A-polynomial. (Received September 19, 2009)