

LEHMER'S QUESTION, KNOTS AND DYNAMICS

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ABSTRACT. The Mahler measure of a monic polynomial is the product of moduli of the roots that lie outside the unit circle. In 1933, D.H. Lehmer asked whether 1 is a limit point of the set of Mahler measures of integer polynomials. We will talk about some of the connections of this open question to dynamical systems that arise in the study of knots.

This is joint work with Daniel Silver.