

1094-57-301 **Cody Armond*** (cody-armond@uiowa.edu), Department of Mathematics, 14 Maclean Hall, Iowa City, IA 52242. *The Multiple Tails of Torus Knots*. Preliminary report.

The colored Jones polynomial is a sequence of Laurent polynomial link invariants. It has previously been shown that for alternating links and adequate links, the sequence of leading coefficients stabilize which produces a power series called the tail of the colored Jones polynomial. Examples where this fails are easy to find, and in the particular example of torus knots, the sequence of leading coefficients alternate between two tails. This phenomenon was seen by using a known formula for the colored Jones polynomial of torus knots. In this talk I will describe an alternate, more enlightening, proof using the q -holonomicity property, which will potentially be applicable to larger classes of knots. (Received August 26, 2013)