

1086-57-1868

Stavros Garoufalidis and **Thomas W Mattman*** (tmattman@csuchico.edu), Department of Mathematics, CSU, Chico, Chico, CA 959290525. *The A-polynomial of the $(-2, 3, 3 + 2n)$ pretzel knots.*

We show that the A-polynomial A_n of the 1-parameter family of pretzel knots $K_n = (-2, 3, 3 + 2n)$ satisfies a linear recursion relation of order 4 with explicit constant coefficients and initial conditions. Our proof combines results of Tamura-Yokota and the second author. As a corollary, we show that the A-polynomial of K_n and the mirror of K_{-n} are related by an explicit $GL(2, Z)$ action. We leave open the question of whether or not this action lifts to the quantum level. (Received September 24, 2012)