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Anh T Tran* (tran@math.gatech.edu), School of Mathematics, Georgia Institute of Technology, 686 Cherry ST, Atlanta, GA 30332. *Proof of a stronger version of the AJ conjecture for torus knots.*

For a knot K in S^3 , the sl_2 -colored Jones function $J_K(n)$ is a sequence of Laurent polynomials in the variable t , which is known to satisfy non-trivial linear recurrence relations. The operator corresponding to the minimal linear recurrence relation is called the recurrence polynomial of K . The AJ conjecture of Garoufalidis states that when reducing $t = -1$, the recurrence polynomial is essentially equal to the A-polynomial of K . In this talk we consider a stronger version of the AJ conjecture, proposed by Sikora, and confirm it for all torus knots. (Received January 14, 2012)