

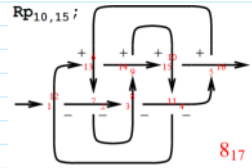
17-1750 Shameless Mathematica on Friday Sep 15, Week

1-2: The Jones Poly, EIWL 1-4

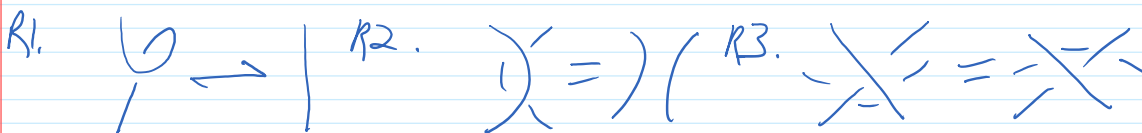
September 13, 2017 10:54 AM

shameless mathematica, <http://drorbn.net/17-1750>.

today: to nearly compute the Jones poly of $8_{17} = 2$. EIWL 1-4.



$I: \{ \text{knot diagrams} \} \rightarrow \{ \text{something manageable} \}$ is "invariant" if



$$\langle \diagdown \rangle = A \langle \text{0-smoothing} \rangle + B \langle \text{1-smoothing} \rangle \quad \langle \bigcirc \rangle = d$$

invariant under R2 iff $B = A^{-1}$, $d = -A^2 - A^{-2}$

Briefly show web site.

compute Kauffman Bracket of

compute $KB(8_{17})$

Invariance under R3

Invariance under R1 / Jones.

Hw: 1. How would you compute Jones?

2. How would you improve efficiency?

EIWL 1-4.