HOMFLY-PT with KnotTheory`

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$$aH(X) - a^{-1}H(X) = zH(X)$$

$$a = e^{nX} \quad z = e^{X} - e^{-X}$$

$$e^{nX}H(L+) - e^{-nX}H(L-) = (e^{X} - e^{-X})H(L_0)$$

$$\Rightarrow H(L_+) - H(L_-) = (e^{X} - e^{-X})H(L_0) + (e^{-x})H(L_+)$$

$$+ (e^{-x} - 1)H(L_-)$$

$$\Rightarrow H(L_+) - H(L_-) = 2x H(L_0) - 2nx H(L_{\pm})$$

$$\Rightarrow H(L_+) - H(L_-) = 2x H(L_0) - 2nx H(L_{\pm})$$

$$\Rightarrow 200 - 2n 00$$

$$= 0 \qquad (couff of x)$$

$$\Rightarrow 200 - 2n 00$$

$$= 2 - 2n^2 = 2(1 - n^2)$$

$$\Rightarrow 2(1 - n^2) \cdot (linking number)$$

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= Indeed knot Theory' computed
the HOMFLYPT OF the mirror of
L.