

HW due! HW3 on web! class photo on web!

1. $V(\vec{\lambda}) = V(\vec{\lambda}_1) - V(\vec{\lambda}_2)$, V is "type n " if $V(\underbrace{X \cdots X}_n) \equiv 0$

2. $q^{-1} J(\vec{\lambda}_1) - q J(\vec{\lambda}_2) = (q^{1/2} - q^{-1/2}) C(\vec{\lambda})$.
 With $q = e^x$ $J(K) = \sum v_n(K) x^n$ v_n is of type n "a f.t. series".

3. HOMFLYPT:

$$a H(\vec{\lambda}_1) - a^{-1} H(\vec{\lambda}_2) = z H(\vec{\lambda})$$

4. Conway $C(\vec{\lambda}_1) - C(\vec{\lambda}_2) = z C(\vec{\lambda})$, $C(O^k) = \int_{k-1}^k$

.... functionals on chord diagrams.

.... FI & YT.

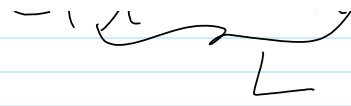
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.... The w.s. of Conway.

dim

$$C(\underbrace{X \cdots X}_k) = z^k [C(\vec{\lambda}_1 \vec{\lambda}_2 \dots) + h.o.]$$

$$\text{Coeff}(z^n, C(\underbrace{X \cdots X}_n)) = \text{constant term of } C(\underbrace{\cdots}_{L})$$



$\equiv \int_1$ L is a knot
 $L \neq \emptyset$ L has more than 1 comp.