Cor $\mathcal{O}_\lambda = P_\lambda(\mathcal{O}_1, \dots, \mathcal{O}_k) \in QK(X)$
every monomial has $\leq \ell(\lambda)$ factors.

Compute: $\mathcal{O}_\lambda * \mathcal{O}_\mu = P_\lambda * \mathcal{O}_\mu$

$$= \sum_{\nu, d} N_{\lambda,\mu}^{\nu,d} \cdot q^d \cdot \mathcal{O}_\nu .$$

Cor $N_{\lambda,\mu}^{\nu,d} = 0$ for $d > \ell(\lambda)$.

Conjecture $(-1)^{|\nu| - |\lambda| - |\mu| + nd} N_{\lambda,\mu}^{\nu,d} \geq 0$
true $n \leq 10$.

Formula For GW-invs (Cont. work with Kresch, Tamvakis)
$C \subseteq X = Gr(m, \mathbb{C}^n)$ rational curve of deg. d.

Def (B) $\ker(C) = \bigcap_{V \in C} V$, $\operatorname{Span}(C) = \sum_{V \in C} V \subseteq \mathbb{C}^n$
C general $\Rightarrow$ $\dim \ker(C) = a := \max(m-d, 0)$
$\dim \operatorname{span}(C) = b := \min(m+d, n)$

$$Y_d = Fl(a, b; \mathbb{C}^n) = \{(A, B) \mid A^a \subset B^b \subset \mathbb{C}^n\}.$$

$$X_\lambda \subseteq X \rightsquigarrow Y_\lambda = \{(A, B) \mid \exists V \in X_\lambda : A \subset V \subset B\}.$$

Thm (B-Kresch-Tamvakis)
$$\langle X_\lambda, X_\mu, X_\nu \rangle_d = \int_{Y_d} [Y_\lambda] \cdot [Y_\mu] \cdot [Y_\nu]$$

$$\begin{array}{ccc} \{\text{counted } C\} & & C \\ \updownarrow & & \downarrow \\ Y_\lambda \cap Y_\mu \cap Y_\nu & & (\ker, \operatorname{span}) \end{array}$$

Thm (B-M)
$$\langle \mathcal{O}_\lambda, \mathcal{O}_\mu, \mathcal{O}_\nu \rangle_d = \chi_{Y_d}(\mathcal{O}_{Y_\lambda} \cdot \mathcal{O}_{Y_\mu} \cdot \mathcal{O}_{Y_\nu}).$$