

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

Compute: $\mathcal{O}_\lambda * \mathcal{O}_\mu = P_\lambda * \mathcal{O}_\mu$
 $= \sum_{v,d} N_{\lambda,\mu}^{v,d} \cdot q^d \cdot \mathcal{O}_v$

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

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

Formula For GW-invs (Cont. work with Krescht, Tamvakis)

$C \subseteq X = Gr(m, \mathbb{C}^n)$ rational curve of deg. d .

Def (B) $Ker(C) = \bigcap_{V \in C} V$, $Span(C) = \sum_{V \in C} V \subseteq \mathbb{C}^n$

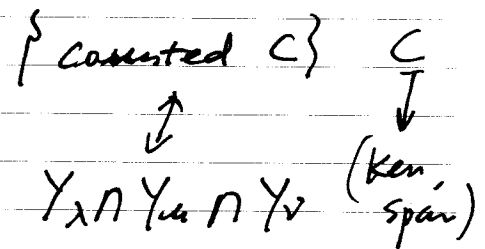
C general \Rightarrow $\dim Ker(C) = a := \max(m-d, 0)$
 $\dim Span(C) = b := \min(m+d, n)$

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

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

Thm (B-Kresch-Tamvakis)

$$\langle X_\lambda, X_\mu, X_\nu \rangle_d = \int_{Y_d} [Y_\lambda] \cdot [Y_\mu] \cdot [Y_\nu]$$



Thm (B-M)

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