

Genus-0 Theory

Averting

7/21/8



$$F = \sum_{n,d} Q_n^d \langle \tau_1 - \tau_n \rangle_{0,n,d}$$

$$= \mathcal{F}_0 \mid \tau_0 + \tau_1 \chi + \tau_2 \chi^2 + \dots = \tau + 0\chi + 0\chi^2 \dots$$

$$J_\alpha = \langle \langle \frac{\phi_\alpha}{z-\gamma} \rangle \rangle(\tau) = \sum_{n,d} Q_n^d \langle \frac{\phi_\alpha}{z-\gamma}, \tau_1 - \tau_n \rangle_{0,n,d}$$

$$\frac{1}{z-\gamma} = \frac{1}{z} \sum \left(\frac{\gamma}{z}\right)^k$$

$$\frac{1}{z-\gamma} - \frac{1}{z-0} = \frac{1}{z} \frac{\gamma}{z-\gamma}$$

$$\partial_\gamma J = \frac{1}{z} J$$

$$(\tau = \sum \tau^\alpha \phi_\alpha)$$

$$\tau_\alpha = \sum \tau^\mu (\phi_\mu, \phi_\alpha) \quad \leftarrow \text{PD-pairing}$$

$$J_\beta^\alpha = \langle \langle \frac{\phi_\alpha}{z-\gamma}, \frac{\phi_\beta}{z-\gamma} \rangle \rangle$$

Bloch

