

$$\langle R(\omega, k) \rangle = \frac{\Phi(\omega, k) \theta(\omega, k)}{\sum_k \Phi(\omega, k) \theta(\omega, k)}$$

$$\theta(\omega) = \frac{\sum_{\omega'} \langle R(\omega', k) \rangle}{N_{\omega}}$$

$$\Phi(\omega, k) = \frac{\sum_{\omega'} \sum_{\omega''} \sum_{\omega'''} \langle R(\omega'', k) \rangle}{\sum_{\omega'} \sum_{\omega''} \sum_{\omega'''}}$$

$$\langle R(\omega, k) \rangle = \frac{P(\omega, k) \theta(\omega, k)}{\sum_k P(\omega, k) \theta(\omega, k)}$$

$$\theta(\omega, k) = \frac{\sum_{\omega'} n(\omega, \omega') \langle R(\omega', k) \rangle}{\sum_{\omega'} \sum_{\omega''} n(\omega, \omega'') \langle R(\omega'', k) \rangle}$$