$$C_{AB}^{\mathrm{DHK}}(t) = \int \mathrm{d}\Omega_0 \int \mathrm{d}\Omega_0' \underbrace{\left\langle \Omega_0 \middle| \hat{A} \middle| \Omega_0' \right\rangle}_{\tilde{A}\ \frac{A}{\tilde{A}}\ e^{\mathrm{i}\varphi_A}} \underbrace{\left\langle \Omega_t' \middle| \hat{B} \middle| \Omega_t \right\rangle}_{B\, e^{\mathrm{i}\varphi_B}} \underbrace{\mathcal{C}_t^{\mathrm{HK}} \mathcal{C}_{t'}^{\mathrm{HK}*}}_{\mathcal{C}\, e^{\mathrm{i}\varphi_C}} e^{\mathrm{i}\Delta S}$$

Focus on amplitude (ignore all phases)

Ignore prefactor

Use unimodal envelope of *A*

$$C_{AB}^{\mathrm{DHK}}(t) = \int \mathrm{d}\Omega_0 \int \mathrm{d}\Omega_0' \underbrace{\left\langle \Omega_0 \middle| \hat{A} \middle| \Omega_0' \right\rangle}_{\tilde{A}} \underbrace{\left\langle \Omega_t' \middle| \hat{B} \middle| \Omega_t \right\rangle}_{B} \underbrace{C_t^{\mathrm{HK}} C_{t'}^{\mathrm{HK}*}}_{C} e^{i(\Phi_A - \Phi_B + \Phi_C)}$$

Focus on amplitude (ignore all phases)

Ignore prefactor

Use unimodal envelope of *A*, ignore correction factor

$$I(\Omega_0, \Omega_0') = \tilde{A}(\Omega_0, \Omega_0')\, B(\Omega_t, \Omega_t')$$