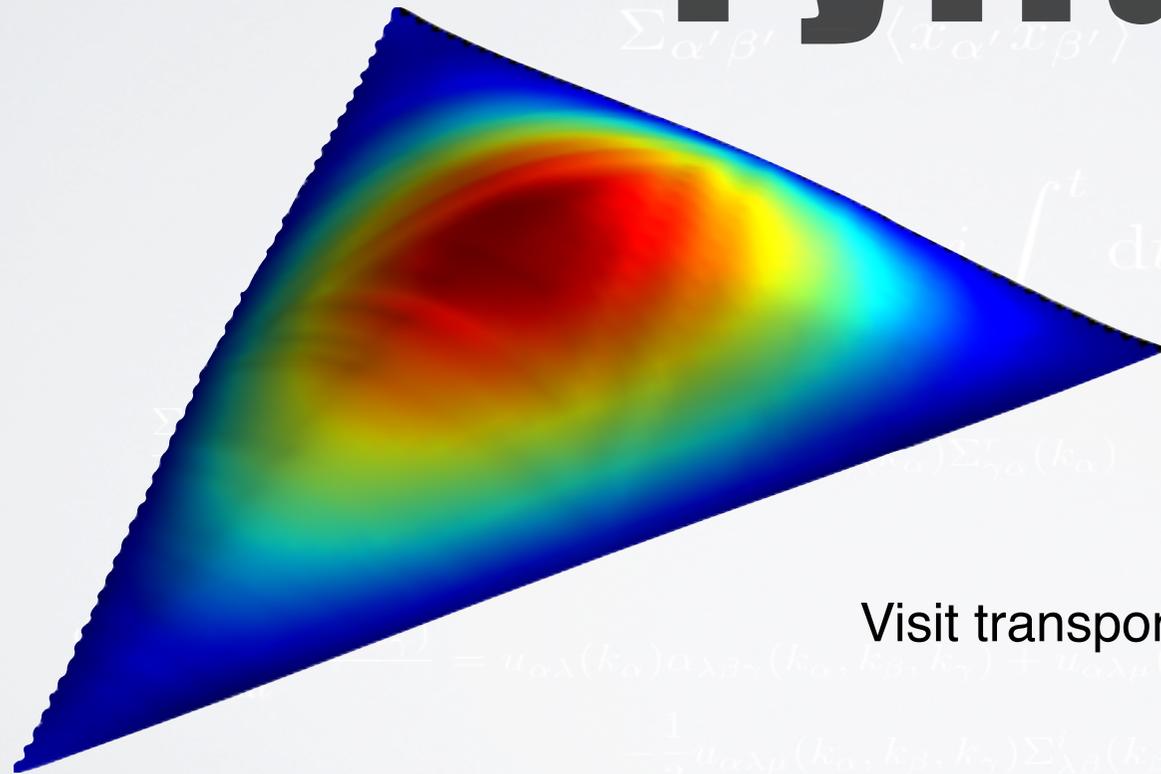


$$\delta\phi_a(t, \mathbf{k}) = \Psi_{ac}(t, k)a_c(\mathbf{k}) + \Psi_{ac}^*(t, k)a_c^\dagger(-\mathbf{k})$$

$$x_{\alpha'} = \{\delta\phi_{\alpha'}, \delta\phi_{\beta'}, \delta\phi_{\gamma'}\}$$

# PyTransport

$$\Sigma_{\alpha'\beta'} = \langle x_{\alpha'} x_{\beta'} \rangle, \quad \alpha_{\alpha'\beta'\gamma'} = \langle x_{\alpha'} x_{\beta'} x_{\gamma'} \rangle$$



$$i \int_{-\infty}^t dt' \langle [\hat{x}_{\alpha'} \hat{x}_{\beta'} \hat{x}_{\gamma'}, \hat{\mathcal{H}}_{\text{int}}(t')] \rangle$$

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$$\frac{1}{3} = u_{\alpha\lambda}(k_\alpha) \alpha_{\lambda\beta\gamma}(k_\alpha, k_\beta, k_\gamma) + u_{\alpha\lambda\mu}(k_\alpha, k_\beta, k_\gamma) \Sigma_{\lambda\beta}^{\alpha'}(k_\beta) \Sigma_{\mu\gamma}^{\alpha'}(k_\gamma)$$

$$- \frac{1}{3} u_{\alpha\lambda\mu}(k_\alpha, k_\beta, k_\gamma) \Sigma_{\lambda\beta}^{\alpha'}(k_\beta) \Sigma_{\mu\gamma}^{\alpha'}(k_\gamma) + \text{cyclic}$$