

$$J_\lambda(\tau, \vec{k}) \simeq 2 a \epsilon \left(\frac{\Lambda^2 H^2}{M^4} \right) \Pi_{ij, \lambda}(\hat{k}) \int \frac{d^3 p}{(2\pi)^{3/2}} p_i p_j \delta\sigma_{\vec{p}}(\tau) \delta\sigma_{\vec{k}-\vec{p}}(\tau).$$