

$$S_{\text{eff}} = \int d^4x \left[ -\frac{1}{2} (\partial_\mu \phi)^2 - \frac{1}{2} (\partial_\mu \psi)^2 - \frac{1}{2} (\partial_\mu \chi)^2 - \frac{1}{2} (\partial_\mu \eta)^2 - \frac{1}{2} (\partial_\mu \sigma)^2 - \frac{1}{2} (\partial_\mu \tau)^2 - \frac{1}{2} (\partial_\mu \rho)^2 - \frac{1}{2} (\partial_\mu \theta)^2 - \frac{1}{2} (\partial_\mu \phi)^2 - \frac{1}{2} (\partial_\mu \psi)^2 - \frac{1}{2} (\partial_\mu \chi)^2 - \frac{1}{2} (\partial_\mu \eta)^2 - \frac{1}{2} (\partial_\mu \sigma)^2 - \frac{1}{2} (\partial_\mu \tau)^2 - \frac{1}{2} (\partial_\mu \rho)^2 - \frac{1}{2} (\partial_\mu \theta)^2 \right]$$