Photoabsorption

- important constraint of the model

total $\gamma-$ absorption cross section :

$$\sigma_\gamma / A = -\frac{1}{\rho}\frac{e^2}{\omega}\epsilon^\mu \epsilon^\nu \frac{m_\rho^4}{g_\rho^2} D^\rho_{\mu\nu}(\omega, |\vec{q}| = \omega)$$

low-density limit:

$$\sigma_\gamma / A \rightarrow \sigma_{\gamma P}$$

diagrams: