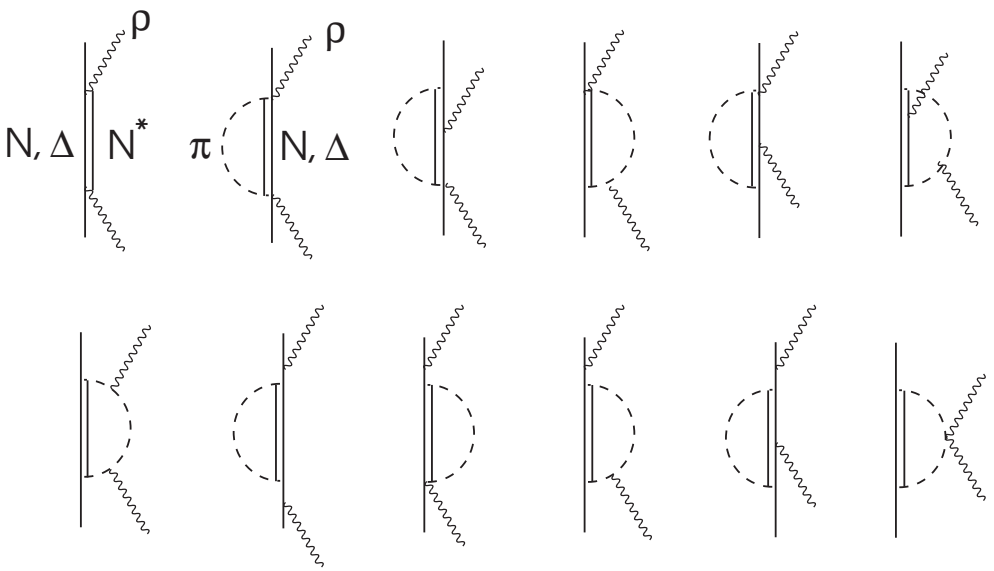
Photoabsorption

- important constraint of the model

total $\gamma-$ absorption cross section :

$$\sigma_\gamma / A = -\frac{1}{\rho}\frac{e^2}{\omega}\epsilon^\mu \epsilon^\nu \Pi^V_{\mu\nu}(\omega, \vec{q})$$

low-density limit:

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

low-density limit :