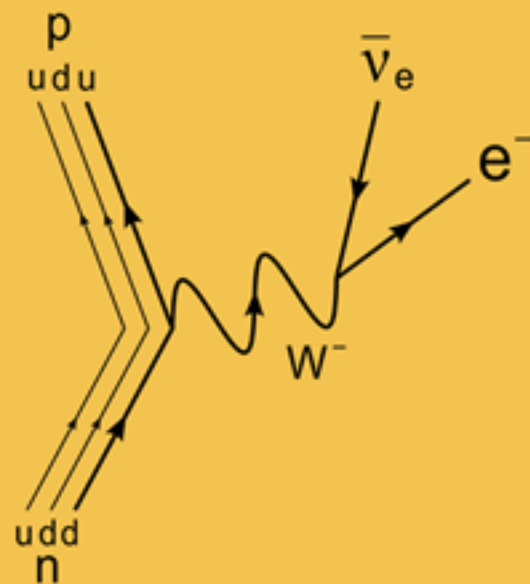
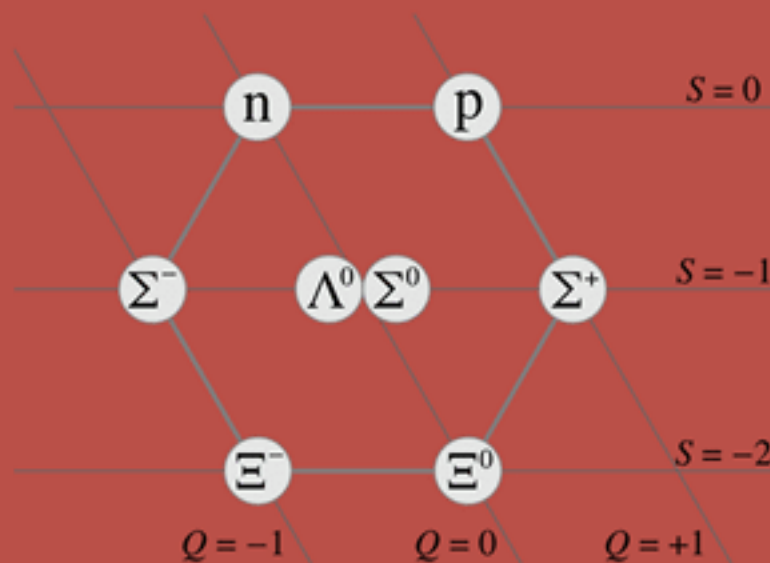


$$\mathcal{L} = g (\bar{\nu}_{eL}, \bar{e}) \gamma^\mu \left\{ \begin{pmatrix} -\sqrt{1+\xi^2} Z_\mu & 0 \\ 0 & \frac{\xi A_\mu}{\sqrt{1+\xi^2}} - \frac{\xi^2}{\sqrt{1+\xi^2}} Z_\mu \end{pmatrix} + \frac{1-\gamma^5}{4} \begin{pmatrix} -\sqrt{1+\xi^2} Z_\mu & -\sqrt{2} W_\mu^+ \\ -\sqrt{2} W_\mu^- & \sqrt{1+\xi^2} Z_\mu \end{pmatrix} \right\} \begin{pmatrix} \nu_{eL} \\ e \end{pmatrix}$$



**Forza nuclear
feble**

$$\mathcal{L} = \bar{\psi}_i \left(i\gamma^\mu (D_\mu)_{ij} - m\delta_{ij} \right) \psi_j - \frac{1}{4} G_{\mu\nu}^a G_a^{\mu\nu}$$



**Forza nuclear
forte**