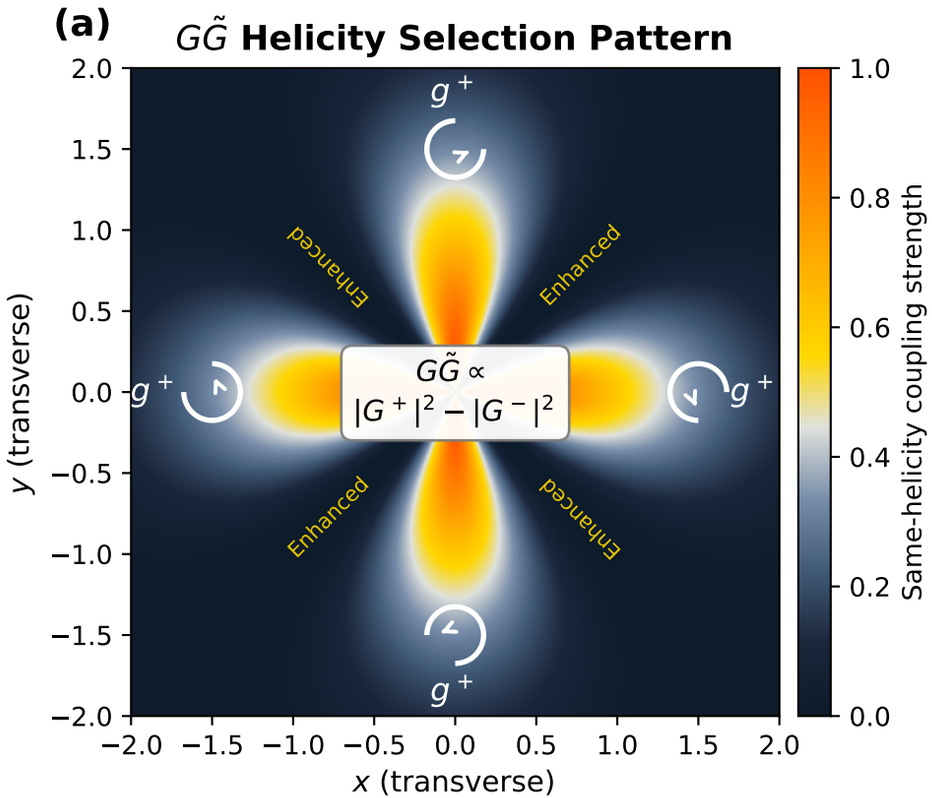

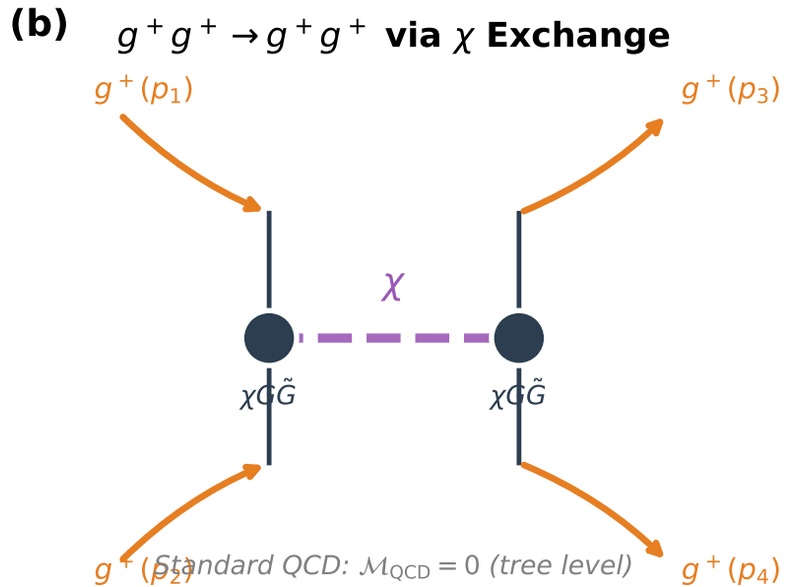

(c)

CG Amplitude (one loop):

$$\mathcal{M}_{\rm CG}(g^+g^+ \to g^+g^+) = \frac{C_\chi^2 \alpha_s^2}{(8\pi)^2} \cdot \frac{[12]^2[34]^{*2}}{s}$$

where $C_\chi = N_f/2$ (anomaly coefficient)

Cross-section ratio (GeV scale):

$$\frac{\sigma(g^+g^+ \to g^+g^+)}{\sigma_{\rm tot}} \sim 10^{-9}$$

- *Unique CG signature: non-zero where QCD vanishes*