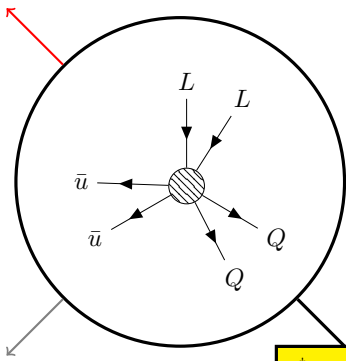
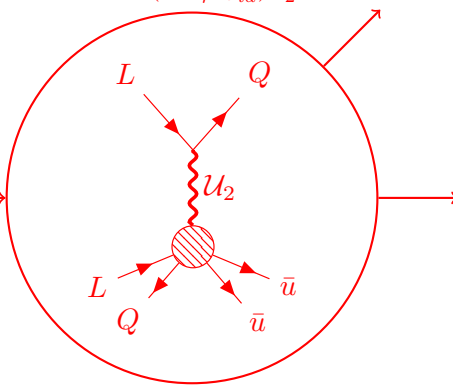


$$\mathcal{L} \supset x(L^i \sigma_\mu Q_{ia}^\dagger) \mathcal{U}_2^{\alpha\mu}$$



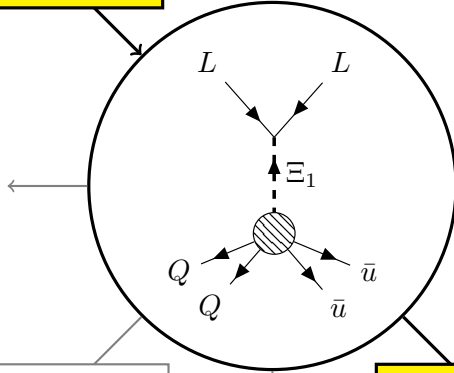
$$\mathcal{U}_2^\dagger \sim (\bar{\mathbf{3}}, \mathbf{1}, -\frac{2}{3})$$

$$\overbrace{L^i L^j Q_{ia}^\dagger Q_{jb}^\dagger}^{\mathcal{U}_2^\dagger} \bar{u}^{\dagger a} \bar{u}^{\dagger b}$$



$$\Xi_1^\dagger \sim (\mathbf{1}, \mathbf{3}, -1)$$

$$\overbrace{L^i L^j Q_{ia}^\dagger Q_{jb}^\dagger}^{\Xi_1^\dagger} \bar{u}^{\dagger a} \bar{u}^{\dagger b}$$



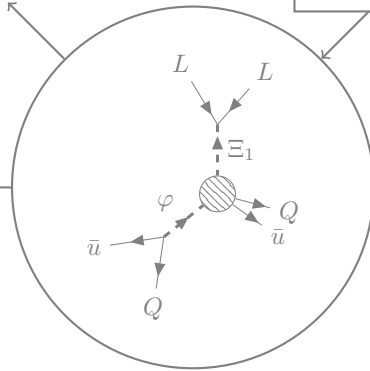
$$\mathcal{L} \supset x(L^i L^j) \Xi_{1\{ij\}}$$

$$\varphi^\dagger \sim (\mathbf{1}, \mathbf{2}, -\frac{1}{2})$$

$$\Xi_1^{\dagger\{ij\}} \overbrace{Q_{ia}^\dagger Q_{jb}^\dagger}^{\varphi^\dagger} \bar{u}^{\dagger a} \bar{u}^{\dagger b}$$

$$\Upsilon^\dagger \sim (\mathbf{6}, \mathbf{3}, -\frac{1}{3})$$

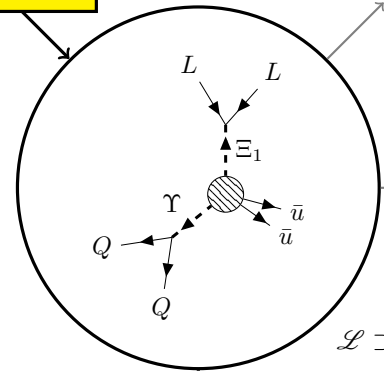
$$\Xi_1^{\dagger\{ij\}} \overbrace{Q_{ia}^\dagger Q_{jb}^\dagger}^{\Upsilon^\dagger} \bar{u}^{\dagger a} \bar{u}^{\dagger b}$$



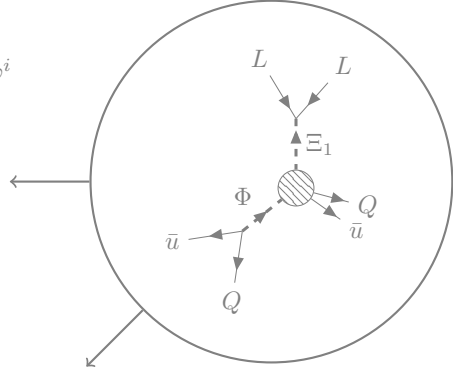
$$\mathcal{L} \supset x(L^i L^j) \Xi_{1\{ij\}} + y Q_{ai}^\dagger \bar{u}^{\dagger a} \varphi^i$$

$$\Phi^\dagger \sim (\mathbf{8}, \mathbf{1}, -\frac{1}{2})$$

$$\Xi_1^{\dagger\{ij\}} \overbrace{Q_{ia}^\dagger Q_{jb}^\dagger}^{\Phi^\dagger} \bar{u}^{\dagger a} \bar{u}^{\dagger b}$$



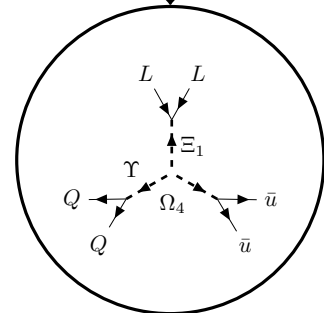
$$\mathcal{L} \supset x(L^i L^j) \Xi_{1\{ij\}} + y(\tilde{Q}_a^k \tilde{Q}_b^l) \Upsilon_{\{kl\}}^{\{ab\}}$$



$$\mathcal{L} \supset x(L^i L^j) \Xi_{1\{ij\}} + y Q_{ai}^\dagger \bar{u}^{\dagger b} \Phi_a^{ib}$$

$$\Omega_4^\dagger \sim (\mathbf{6}, \mathbf{1}, -\frac{4}{3})$$

$$\Xi_1^{\dagger\{ij\}} \Upsilon_{\{ab\}}^{\dagger\{kl\}} \overbrace{\bar{u}^{\dagger a} \bar{u}^{\dagger b}}^{\Omega_4^\dagger} \epsilon_{ik} \epsilon_{jl}$$



$$\mathcal{L} \supset x(L^i L^j) \Xi_{1\{ij\}} + y(\tilde{Q}_a^k \tilde{Q}_b^l) \Upsilon_{\{kl\}}^{\{ab\}} + z(\bar{u}^{\dagger a} \bar{u}^{\dagger b}) \Omega_{4\{ab\}} + \kappa \Xi_{1\{ij\}} \Upsilon^{\{ab\}\{ij\}} \Omega_{4\{ab\}}$$