

$$\mathcal{L}^{8a} = i \frac{g^{8a}}{4f^2} \bar{P}_{ijk} \epsilon^{lmk} \gamma^\mu (\partial_\mu \phi_l^a \phi_a^i - \phi_l^a \partial_\mu \phi_a^i) B_m^j + h.c.$$