

$$\mathcal{L}^{27} = \frac{g^{27}}{2f} \left[4 \bar{P}_{ijk} \epsilon^{ibc} \phi^j_b \phi^k_a B^a_c - \frac{4}{5} \bar{P}_{ijk} \epsilon^{abk} \phi^i_c \phi^c_a B^j_b \right] + h.c.$$