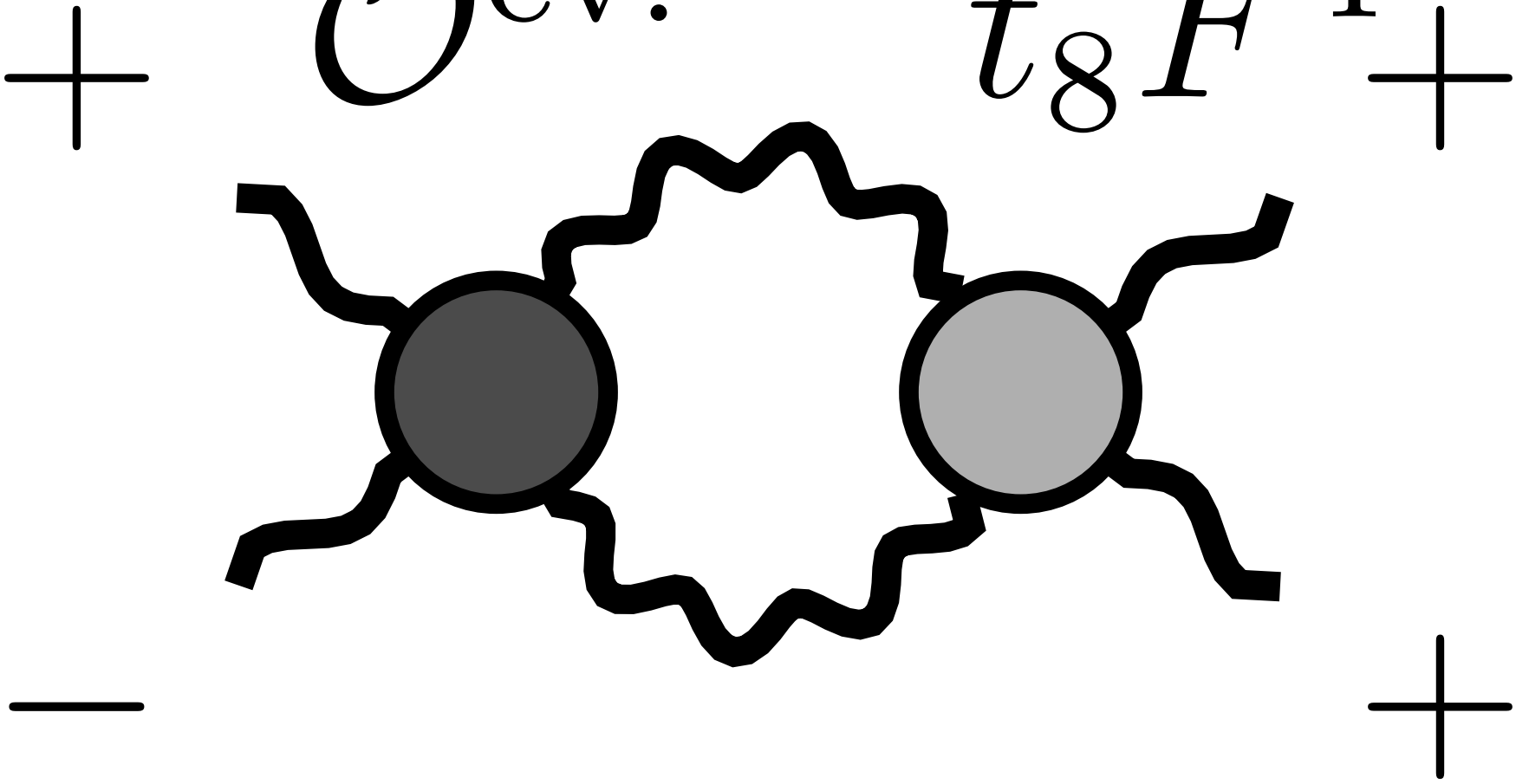$\mathcal{O}^{\text{ev.}}$ $t_8 F^4$