

$$\begin{aligned}
 W \supset & M_T T \bar{T} + \frac{1}{2} \lambda_T H_u T H_u + \frac{1}{2} \lambda_{\bar{T}} H_d \bar{T} H_d \\
 & + X \left(a_2 M_T T \bar{T} + \frac{1}{2} a_3 \lambda_T H_u T H_u + \frac{1}{2} a_4 \lambda_{\bar{T}} H_d \bar{T} H_d \right)
 \end{aligned}$$