

$$\begin{aligned}
-\mathcal{L} \quad &\supset \quad e j_{em}^\mu A_\mu \\
&+ \left[g_x j_x^\mu - \epsilon e j_{em}^\mu - \epsilon t_W \left(\frac{\eta}{1-\eta} \right) g_Z j_Z^\mu \right] X_\mu \\
&+ \left[g_Z j_Z^\mu + \epsilon t_W \left(\frac{1}{1-\eta} \right) g_x j_x^\mu \right] Z_\mu
\end{aligned}$$