

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