

$$\begin{aligned}
\mathcal{L} = & -\frac{1}{4} F_{\mu\nu} F^{\mu\nu} \\
& + i \bar{\psi} \not{D} \psi + \text{h.c.} \\
& + \bar{\psi}_i y_{ij} \psi_j \phi + \text{h.c.} \\
& + |D_\mu \phi|^2 - V(\phi)
\end{aligned}$$