

$$\mathcal{L} = -\frac{1}{4} F_{\mu\nu} F^{\mu\nu}$$

$$+ i \bar{\psi} \not{D} \psi$$

$$+ \chi_i y_{ij} \chi_j \phi + \text{h.c.}$$

$$+ |D_\mu \phi|^2 - V(\phi)$$