$$\mathcal{L}_{h} = \underbrace{\frac{1}{2} \left(\partial^{2} - m_{h}^{2} \right) h^{2}}_{1} + \underbrace{\kappa_{V}}_{1} g_{HVV} V^{2} h + \underbrace{\kappa_{2V}}_{2} \underbrace{\frac{g_{HHVV}}{2} V^{2} h^{2}}_{1} + \underbrace{\kappa_{\lambda}}_{3!} \underbrace{\frac{g_{HHH}}{3!} h^{3}}_{1} + \underbrace{\kappa_{2\lambda}}_{4!} \underbrace{\frac{g_{HHHH}}{4!} h^{4}}_{1}$$

Kinetic energy term: Does the Higgs exist as a scalar particle with mass?

Kappa coupling scale-factors: Do we actually know what we're doing?

W,Z / Higgs interaction:
$$\kappa_V - \cdots + \kappa_V$$

Higgs self-interaction: $h_0 - - - \kappa_{\lambda}$

W,Z / di-Higgs interaction:
$$\begin{pmatrix} V_1 & h_1 \\ \kappa_2 v & h_2 \end{pmatrix}$$

Higgs four-point self-interaction: h_2 h_4

$$g_{HVV} \equiv 2\sqrt{2\lambda} \frac{m_V^2}{m_h}, \quad g_{HHVV} \equiv 4\lambda \frac{m_V^2}{m_t^2}, \quad g_{HHH} \equiv 3\sqrt{2\lambda} m_h, \quad g_{HHHH} \equiv 6\lambda$$