

Operator \mathcal{O}_i

Wilson coefficient

Gauge boson self-interaction

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|---|----------------|
| $\epsilon^{IJK} W_{\mu}^{I\nu} W_{\nu}^{J\rho} W_{\rho}^{K\mu}$ | c_W |
| $\Phi^\dagger \Phi W_{I\mu\nu} W^{I\mu\nu}$ | c_{HW} |
| $\Phi^\dagger \Phi B_{\mu\nu} B^{\mu\nu}$ | c_{HB} |
| $\Phi^\dagger \tau^I \Phi W_{\mu\nu}^I B^{\mu\nu}$ | c_{HWB} |
| $(\Phi^\dagger \Phi) \square (\Phi^\dagger \Phi)$ | $c_{H\square}$ |
| $(\Phi^\dagger D_{\mu} \Phi)^* (\Phi^\dagger D^{\mu} \Phi)$ | c_{HDD} |

Gauge boson and fermion interaction

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| $(\Phi^\dagger i \overleftrightarrow{D}_{\mu}^I \Phi) (\bar{q}_p \tau^I \gamma^{\mu} q_r)$ | c_{Hq3} |
| $(\Phi^\dagger i \overleftrightarrow{D}_{\mu} \Phi) (\bar{q}_p \gamma^{\mu} q_r)$ | c_{Hq1} |
| $(\Phi^\dagger i \overleftrightarrow{D}_{\mu} \Phi) (\bar{u}_p \gamma^{\mu} u_r)$ | c_{Hu} |
| $(\Phi^\dagger i \overleftrightarrow{D}_{\mu} \Phi) (\bar{d}_p \gamma^{\mu} d_r)$ | c_{Hd} |
| $(\Phi^\dagger i \overleftrightarrow{D}_{\mu}^I \Phi) (\bar{\ell}_p \tau^I \gamma^{\mu} \ell_r)$ | c_{Hl3} |

Four-fermion interaction

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|---|-----------|
| $(\bar{\ell}_p \gamma_{\mu} \ell_r) (\bar{\ell}_s \gamma^{\mu} \ell_t)$ | c_{ll1} |
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