$g_L \to g_L$

$g_s \to g_s$

$g_Y \to c_{B^2}$

$Y_d^{i1\_i2\_} \to Y_d^{i1i2}$

$Y_e^{i1\_i2\_} \to c_{Hle}^{i1i2}$

$Y_u^{i1\_i2\_} \to Y_u^{i1i2}$

$\lambda \to -2\, c_{H^4} - \frac{2}{15}\, \hbar\, C_{H^2}\, \frac{1}{M_\phi^2}\, c_{B^2}^4 + 2\, \hbar\, C_{H^2}\, \lambda_{H\chi}^{pr}\, \lambda_{H\chi}^{rp}\, LF_{2,1,0}[M_\chi^p, M_\chi^r] - 2\, \hbar\, C_{H^2}\, \lambda_{H\chi}^{pr}\, \lambda_{H\chi}^{rp}\, LF_{3,1,-1}[M_\chi^p, M_\chi^r]$

$\mu 2 \to C_{H^2}$

$C_{llHH}^{i1\_i2\_} \to 0$

$C_{dB}^{i1\_i2\_} \to 0$

$C_{dd}^{i1\_i2\_i3\_i4\_} \to -\frac{2}{135}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{dG}^{i1\_i2\_} \to 0$

$C_{dH}^{i1\_i2\_} \to 0$

$C_{dW}^{i1\_i2\_} \to 0$

$C_{eB}^{i1\_i2\_} \to \frac{1}{4}\, \hbar\, c_{B^2}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rp}\, c_{Hle}^{i1r}\, LF_{3,1,-1}[M_\phi, M_\chi^p] - \frac{1}{4}\, \hbar\, c_{B^2}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rp}\, c_{Hle}^{i1r}\, LF_{4,1,-2}[M_\phi, M_\chi^p]$

$C_{ed}^{i1\_i2\_i3\_i4\_} \to -\frac{4}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4} - \frac{1}{6}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i1p}\, LF_{3,1,-1}[M_\phi, M_\chi^p]\, \delta_{i3i4} + \frac{1}{18}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i1p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]\, \delta_{i3i4}$

$C_{ee}^{i1\_i2\_i3\_i4\_} \to -\frac{1}{15}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i4}\, \delta_{i2i3} - \frac{1}{15}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4} - \frac{1}{8}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i4p}\, \lambda_{\psi\chi}^{i3p}\, LF_{3,1,-1}[M_\phi, M_\chi^p]\, \delta_{i1i2} - \frac{1}{8}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i3p}\, LF_{3,1,-1}[M_\phi, M_\chi^p]\, \delta_{i1i4} - \frac{1}{8}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i4p}\, \lambda_{\psi\chi}^{i1p}\, LF_{3,1,-1}[M_\phi, M_\chi^p]\, \delta_{i2i3} - \frac{1}{8}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i1p}\, LF_{3,1,-1}[M_\phi, M_\chi^p]\, \delta_{i3i4} + \frac{1}{24}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i4p}\, \lambda_{\psi\chi}^{i3p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]\, \delta_{i1i2} + \frac{1}{24}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i3p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]\, \delta_{i1i4} + \frac{1}{24}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i4p}\, \lambda_{\psi\chi}^{i1p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]\, \delta_{i2i3} + \frac{1}{24}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i1p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]\, \delta_{i3i4} + \frac{1}{16}\, \hbar\, \overline{\lambda_{\psi\chi}}^{i2p}\, \overline{\lambda_{\psi\chi}}^{i4r}\, \lambda_{\psi\chi}^{i1r}\, \lambda_{\psi\chi}^{i3p}\, LF_{2,1,1,-1}[M_\phi, M_\chi^p, M_\chi^r] + \frac{1}{16}\, \hbar\, \overline{\lambda_{\psi\chi}}^{i2p}\, \overline{\lambda_{\psi\chi}}^{i4r}\, \lambda_{\psi\chi}^{i1p}\, \lambda_{\psi\chi}^{i3r}\, LF_{2,1,1,-1}[M_\phi, M_\chi^p, M_\chi^r]$

$C_{eH}^{i1\_i2\_} \to -\frac{1}{2}\, \hbar\, \overline{\lambda_{\psi\chi}}^{rs}\, \lambda_{\psi\chi}^{ts}\, \overline{c_{Hle}}^{pr}\, c_{Hle}^{pi2}\, c_{Hle}^{i1t}\, LF_{2,1,0}[M_\phi, M_\chi^s] + \hbar\, \overline{\lambda_{\psi\chi}}^{rs}\, \lambda_{\psi\chi}^{ts}\, \overline{c_{Hle}}^{pr}\, c_{Hle}^{pi2}\, c_{Hle}^{i1t}\, LF_{3,1,-1}[M_\phi, M_\chi^s] - \frac{1}{2}\, \hbar\, \overline{\lambda_{\psi\chi}}^{rs}\, \lambda_{\psi\chi}^{ts}\, \overline{c_{Hle}}^{pr}\, c_{Hle}^{pi2}\, c_{Hle}^{i1t}\, LF_{4,1,-2}[M_\phi, M_\chi^s] - \frac{1}{2}\, \hbar\, \lambda_{H\chi}^{ps}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rs}\, c_{Hle}^{i1r}\, LF_{1,1,1,0}[M_\phi, M_\chi^p, M_\chi^s] + \frac{1}{4}\, \hbar\, \lambda_{H\chi}^{ps}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rs}\, c_{Hle}^{i1r}\, LF_{2,1,1,-1}[M_\phi, M_\chi^p, M_\chi^s] + \frac{1}{4}\, \hbar\, \lambda_{H\chi}^{ps}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rs}\, c_{Hle}^{i1r}\, LF_{2,1,1,-1}[M_\chi^p, M_\phi, M_\chi^s] - \frac{1}{4}\, \hbar\, \lambda_{H\chi}^{ps}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rs}\, c_{Hle}^{i1r}\, LF_{2,1,1,-1}[M_\chi^s, M_\phi, M_\chi^p]$

$C_{eu}^{i1\_i2\_i3\_i4\_} \to \frac{8}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4} + \frac{1}{3}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i1p}\, LF_{3,1,-1}[M_\phi, M_\chi^p]\, \delta_{i3i4} - \frac{1}{9}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i1p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]\, \delta_{i3i4}$

$C_{eW}^{i1\_i2\_} \to 0$

$C_G \to 0$

$C_{\tilde{G}} \to 0$

$C_H \to -\frac{1}{3}\, \hbar\, \lambda_{H\chi}^{pr}\, \lambda_{H\chi}^{rs}\, \lambda_{H\chi}^{sp}\, LF_{1,1,1,0}[M_\chi^p, M_\chi^r, M_\chi^s]$

$C_{HB} \to 0$

$C_{H\,\Box} \to -\frac{1}{30}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4 + \frac{1}{2}\, \hbar\, \lambda_{H\chi}^{pr}\, \lambda_{H\chi}^{rp}\, LF_{2,1,0}[M_\chi^p, M_\chi^r] - \frac{1}{2}\, \hbar\, \lambda_{H\chi}^{pr}\, \lambda_{H\chi}^{rp}\, LF_{3,1,-1}[M_\chi^p, M_\chi^r]$

$C_{H\,\tilde{B}} \to 0$

$C_{Hd}^{i1\_i2\_} \to \frac{2}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}$

$C_{HD} \to -\frac{2}{15}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4$

$C_{He}^{i1\_i2\_} \to \frac{2}{15}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2} + \frac{1}{4}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i1p}\, LF_{3,1,-1}[M_\phi, M_\chi^p] - \frac{1}{12}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{i1p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]$

$C_{HG} \to 0$

$C_{H\,\tilde{G}} \to 0$

$C_{Hl}^{(1)\,i1\_i2\_} \to \frac{1}{15}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2} + \frac{1}{4}\, \hbar\, \overline{\lambda_{\psi\chi}}^{pr}\, \lambda_{\psi\chi}^{sr}\, \overline{c_{Hle}}^{i2p}\, c_{Hle}^{i1s}\, LF_{2,1,0}[M_\phi, M_\chi^r] - \frac{1}{2}\, \hbar\, \overline{\lambda_{\psi\chi}}^{pr}\, \lambda_{\psi\chi}^{sr}\, \overline{c_{Hle}}^{i2p}\, c_{Hle}^{i1s}\, LF_{3,1,-1}[M_\phi, M_\chi^r] + \frac{1}{4}\, \hbar\, \overline{\lambda_{\psi\chi}}^{pr}\, \lambda_{\psi\chi}^{sr}\, \overline{c_{Hle}}^{i2p}\, c_{Hle}^{i1s}\, LF_{4,1,-2}[M_\phi, M_\chi^r]$

$C_{Hl}^{(3)\,i1\_i2\_} \to \frac{1}{4}\, \hbar\, \overline{\lambda_{\psi\chi}}^{pr}\, \lambda_{\psi\chi}^{sr}\, \overline{c_{Hle}}^{i2p}\, c_{Hle}^{i1s}\, LF_{2,1,0}[M_\phi, M_\chi^r] - \frac{1}{2}\, \hbar\, \overline{\lambda_{\psi\chi}}^{pr}\, \lambda_{\psi\chi}^{sr}\, \overline{c_{Hle}}^{i2p}\, c_{Hle}^{i1s}\, LF_{3,1,-1}[M_\phi, M_\chi^r] + \frac{1}{4}\, \hbar\, \overline{\lambda_{\psi\chi}}^{pr}\, \lambda_{\psi\chi}^{sr}\, \overline{c_{Hle}}^{i2p}\, c_{Hle}^{i1s}\, LF_{4,1,-2}[M_\phi, M_\chi^r]$

$C_{Hq}^{(1)\,i1\_i2\_} \to -\frac{1}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}$

$C_{Hq}^{(3)\,i1\_i2\_} \to 0$

$C_{Hu}^{i1\_i2\_} \to -\frac{4}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}$

$C_{Hud}^{i1\_i2\_} \to 0$

$C_{HW} \to 0$

$C_{HWB} \to 0$

$C_{H\,\tilde{W}} \to 0$

$C_{H\,\tilde{W}\,B} \to 0$

$C_{ld}^{i1\_i2\_i3\_i4\_} \to -\frac{2}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{le}^{i1\_i2\_i3\_i4\_} \to -\frac{2}{15}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4} - \frac{1}{4}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i4p}\, \lambda_{\psi\chi}^{i3p}\, LF_{3,1,-1}[M_\phi, M_\chi^p]\, \delta_{i1i2} + \frac{1}{12}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i4p}\, \lambda_{\psi\chi}^{i3p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]\, \delta_{i1i2}$

$C_{ledq}^{i1\_i2\_i3\_i4\_} \to 0$

$C_{lequ}^{(1)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{lequ}^{(3)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{ll}^{i1\_i2\_i3\_i4\_} \to -\frac{1}{30}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{lq}^{(1)\,i1\_i2\_i3\_i4\_} \to \frac{1}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{lq}^{(3)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{lu}^{i1\_i2\_i3\_i4\_} \to \frac{4}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{qd}^{(1)\,i1\_i2\_i3\_i4\_} \to \frac{2}{135}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{qd}^{(8)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{qe}^{i1\_i2\_i3\_i4\_} \to \frac{2}{45}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4} + \frac{1}{12}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i4p}\, \lambda_{\psi\chi}^{i3p}\, LF_{3,1,-1}[M_\phi, M_\chi^p]\, \delta_{i1i2} - \frac{1}{36}\, \hbar\, c_{B^2}^2\, \overline{\lambda_{\psi\chi}}^{i4p}\, \lambda_{\psi\chi}^{i3p}\, LF_{4,1,-2}[M_\phi, M_\chi^p]\, \delta_{i1i2}$

$C_{qq}^{(1)\,i1\_i2\_i3\_i4\_} \to -\frac{1}{270}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{qq}^{(3)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{qu}^{(1)\,i1\_i2\_i3\_i4\_} \to -\frac{4}{135}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{qu}^{(8)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{quqd}^{(1)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{quqd}^{(8)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{uB}^{i1\_i2\_} \to 0$

$C_{ud}^{(1)\,i1\_i2\_i3\_i4\_} \to \frac{8}{135}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{ud}^{(8)\,i1\_i2\_i3\_i4\_} \to 0$

$C_{uG}^{i1\_i2\_} \to 0$

$C_{uH}^{i1\_i2\_} \to 0$

$C_{uu}^{i1\_i2\_i3\_i4\_} \to -\frac{8}{135}\, \hbar\, \frac{1}{M_\phi^2}\, c_{B^2}^4\, \delta_{i1i2}\, \delta_{i3i4}$

$C_{uW}^{i1\_i2\_} \to 0$

$C_W \to 0$

$C_{\tilde{W}} \to 0$

$C_{H^2} \to -\hbar\, \lambda_{H\chi}^{pp}\, (M_\chi^p)^2 + \mu 2 - \hbar\, \lambda_{H\chi}^{pp}\, (M_\chi^p)^2\, \mathrm{Log}\left[\frac{\overline{\mu}^2}{(M_\chi^p)^2}\right]$

$c_{Hle}^{i1\_i2\_} \to Y_e^{i1i2} + \frac{1}{8}\, \hbar\, Y_e^{i1r}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rp} - \frac{1}{2}\, \hbar\, Y_e^{i1r}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rp}\, LF_{1,1,0}[M_\phi, M_\chi^p] + \frac{1}{4}\, \hbar\, Y_e^{i1r}\, \overline{\lambda_{\psi\chi}}^{i2p}\, \lambda_{\psi\chi}^{rp}\, LF_{2,1,-1}[M_\phi, M_\chi^p]$

$c_{H^4} \to -\frac{1}{15}\, \hbar\, C_{H^2}\, g_Y^4\, \frac{1}{M_\phi^2} - \frac{1}{2}\, \lambda + \frac{1}{2}\, \hbar\, \lambda_{H\chi}^{pr}\, \lambda_{H\chi}^{rp}\, LF_{1,1,0}[M_\chi^p, M_\chi^r] + \hbar\, C_{H^2}\, \lambda_{H\chi}^{pr}\, \lambda_{H\chi}^{rp}\, LF_{2,1,0}[M_\chi^p, M_\chi^r] - \hbar\, C_{H^2}\, \lambda_{H\chi}^{pr}\, \lambda_{H\chi}^{rp}\, LF_{3,1,-1}[M_\chi^p, M_\chi^r]$

$c_{B^2} \to g_Y - \frac{2}{3}\, \hbar\, g_Y^3\, \mathrm{Log}\left[\frac{\overline{\mu}^2}{M_\phi^2}\right]$