

$$\begin{aligned}
C_{\text{dw}}^{11} \bar{1}^2 \rightarrow \hbar \left(-\frac{1}{48} g_2 c_Y \frac{1}{m_2^2} (s_Y^2 \bar{y}_d^{\text{pr}} (y_d^{\text{pi}2} y_d^{11r} + 18 y_d^{\text{pr}} y_d^{11i2}) + y_d^{\text{pi}2} \bar{y}_u^{\text{pr}} y_u^{11r} (c_Y^2 + 3 s_Y^2)) + \right. \\
\frac{1}{8} g_2 c_Y s_Y^2 y_d^{\text{pi}2} \bar{y}_u^{\text{pr}} y_u^{11r} \text{LF}_{1,2} [m_{\mathbb{B}}] + \frac{1}{144} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{2,1,0} [m_1, m_q^{11}] - \\
\frac{1}{72} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{3,1,-1} [m_1, m_q^{11}] + \frac{1}{144} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{4,1,-2} [m_1, m_q^{11}] - \\
\frac{1}{16} c_Y g_2^3 y_d^{11i2} \text{LF}_{2,1,0} [m_2, m_q^{11}] - \frac{1}{8} c_Y g_2^3 y_d^{11i2} \text{LF}_{3,1,-1} [m_2, m_q^{11}] + \\
\frac{3}{16} c_Y g_2^3 y_d^{11i2} \text{LF}_{4,1,-2} [m_2, m_q^{11}] + \frac{1}{3} g_2 c_Y g_3^2 y_d^{11i2} \text{LF}_{2,1,0} [m_3, m_q^{11}] - \\
\frac{2}{3} g_2 c_Y g_3^2 y_d^{11i2} \text{LF}_{3,1,-1} [m_3, m_q^{11}] + \frac{1}{3} g_2 c_Y g_3^2 y_d^{11i2} \text{LF}_{4,1,-2} [m_3, m_q^{11}] - \\
\frac{1}{8} g_2 c_Y \bar{y}_d^{\text{pr}} y_d^{\text{pi}2} y_d^{11r} \text{LF}_{3,1,-1} [\tilde{\mu}, m_d^r] + \frac{1}{8} g_2 c_Y \bar{y}_d^{\text{pr}} y_d^{\text{pi}2} y_d^{11r} \text{LF}_{4,1,-2} [\tilde{\mu}, m_d^r] - \\
\frac{1}{8} g_2 c_Y y_d^{\text{pi}2} \bar{y}_u^{\text{pr}} y_u^{11r} \text{LF}_{3,1,-1} [\tilde{\mu}, m_u^r] + \frac{1}{8} g_2 c_Y y_d^{\text{pi}2} \bar{y}_u^{\text{pr}} y_u^{11r} \text{LF}_{4,1,-2} [\tilde{\mu}, m_u^r] + \\
\frac{1}{72} g_2 m_1 g_1^2 (c_Y a_d^{11i2} - s_Y \tilde{\mu} y_d^{11i2}) \text{LF}_{2,1,1,0} [m_1, m_d^{i2}, m_q^{11}] + \\
\frac{1}{144} g_2 m_1 g_1^2 (-c_Y a_d^{11i2} + s_Y \tilde{\mu} y_d^{11i2}) \text{LF}_{2,2,1,-1} [m_1, m_d^{i2}, m_q^{11}] + \\
\frac{1}{72} g_2 m_1 g_1^2 (-c_Y a_d^{11i2} + s_Y \tilde{\mu} y_d^{11i2}) \text{LF}_{3,1,1,-1} [m_1, m_d^{i2}, m_q^{11}] + \\
\frac{1}{144} g_2 m_1 g_1^2 (c_Y a_d^{11i2} - s_Y \tilde{\mu} y_d^{11i2}) \text{LF}_{2,2,1,-1} [m_1, m_q^{11}, m_d^{i2}] + \\
\frac{1}{24} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{1,1,1,0} [m_1, m_q^{11}, \tilde{\mu}] - \frac{1}{12} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{2,1,1,-1} [m_1, m_q^{11}, \tilde{\mu}] - \\
\frac{1}{24} g_2 m_1 s_Y \tilde{\mu} g_1^2 y_d^{11i2} \text{LF}_{2,1,1,0} [m_1, m_q^{11}, \tilde{\mu}] + \frac{1}{24} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{3,1,1,-2} [m_1, m_q^{11}, \tilde{\mu}] + \\
\frac{1}{24} g_2 m_1 s_Y \tilde{\mu} g_1^2 y_d^{11i2} \text{LF}_{3,1,1,-1} [m_1, m_q^{11}, \tilde{\mu}] + \frac{1}{24} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{2,2,1,-2} [m_1, \tilde{\mu}, m_d^{i2}] + \\
\frac{1}{24} g_2 m_1 s_Y \tilde{\mu} g_1^2 y_d^{11i2} \text{LF}_{2,2,1,-1} [m_1, \tilde{\mu}, m_d^{i2}] + \frac{1}{48} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{2,2,1,-2} [m_1, \tilde{\mu}, m_q^{11}] + \\
\frac{1}{48} g_2 m_1 s_Y \tilde{\mu} g_1^2 y_d^{11i2} \text{LF}_{2,2,1,-1} [m_1, \tilde{\mu}, m_q^{11}] - \frac{1}{8} c_Y g_2^3 y_d^{11i2} \text{LF}_{1,1,1,0} [m_2, m_q^{11}, \tilde{\mu}] - \\
\frac{1}{4} c_Y g_2^3 y_d^{11i2} \text{LF}_{2,1,1,-1} [m_2, m_q^{11}, \tilde{\mu}] + \frac{1}{8} m_2 s_Y \tilde{\mu} g_2^3 y_d^{11i2} \text{LF}_{2,1,1,0} [m_2, m_q^{11}, \tilde{\mu}] + \\
\frac{3}{8} c_Y g_2^3 y_d^{11i2} \text{LF}_{3,1,1,-2} [m_2, m_q^{11}, \tilde{\mu}] + \frac{3}{8} m_2 s_Y \tilde{\mu} g_2^3 y_d^{11i2} \text{LF}_{3,1,1,-1} [m_2, m_q^{11}, \tilde{\mu}] + \\
\frac{3}{16} c_Y g_2^3 y_d^{11i2} \text{LF}_{2,2,1,-2} [m_2, \tilde{\mu}, m_q^{11}] + \frac{3}{16} m_2 s_Y \tilde{\mu} g_2^3 y_d^{11i2} \text{LF}_{2,2,1,-1} [m_2, \tilde{\mu}, m_q^{11}] + \\
\frac{1}{3} g_2 m_3 g_3^2 (-c_Y a_d^{11i2} + s_Y \tilde{\mu} y_d^{11i2}) \text{LF}_{2,1,1,0} [m_3, m_d^{i2}, m_q^{11}] + \\
\frac{1}{6} g_2 m_3 g_3^2 (c_Y a_d^{11i2} - s_Y \tilde{\mu} y_d^{11i2}) \text{LF}_{2,2,1,-1} [m_3, m_d^{i2}, m_q^{11}] + \\
\frac{1}{3} g_2 m_3 g_3^2 (c_Y a_d^{11i2} - s_Y \tilde{\mu} y_d^{11i2}) \text{LF}_{3,1,1,-1} [m_3, m_d^{i2}, m_q^{11}] + \\
\frac{1}{6} g_2 m_3 g_3^2 (-c_Y a_d^{11i2} + s_Y \tilde{\mu} y_d^{11i2}) \text{LF}_{2,2,1,-1} [m_3, m_q^{11}, m_d^{i2}] + \\
\frac{1}{16} g_2 \tilde{\mu} y_d^{\text{pi}2} y_u^{11r} (-s_Y \bar{a}_u^{\text{pr}} + \tilde{\mu} c_Y \bar{y}_u^{\text{pr}}) \text{LF}_{2,2,1,-1} [m_q^{\text{P}}, \tilde{\mu}, m_u^r] + \\
\frac{1}{16} g_2 \tilde{\mu} y_d^{\text{pi}2} y_u^{11r} (s_Y \bar{a}_u^{\text{pr}} - \tilde{\mu} c_Y \bar{y}_u^{\text{pr}}) \text{LF}_{2,2,1,-1} [m_u^r, \tilde{\mu}, m_q^{\text{P}}] - \\
\frac{1}{12} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{2,1,1,-1} [\tilde{\mu}, m_1, m_d^{i2}] + \frac{1}{12} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{3,1,1,-2} [\tilde{\mu}, m_1, m_d^{i2}] + \\
\frac{1}{12} g_2 m_1 s_Y \tilde{\mu} g_1^2 y_d^{11i2} \text{LF}_{3,1,1,-1} [\tilde{\mu}, m_1, m_d^{i2}] - \\
\frac{1}{24} g_2 c_Y g_1^2 y_d^{11i2} \text{LF}_{2,1,1,-1} [\tilde{\mu}, m_1, m_q^{11}] - \frac{1}{24} g_2 m_1 s_Y \tilde{\mu} g_1^2 y_d^{11i2} \text{LF}_{2,1,1,0} [\tilde{\mu}, m_1, m_q^{11}] + \\
\frac{1}{8} c_Y g_2^3 y_d^{11i2} \text{LF}_{2,1,1,-1} [\tilde{\mu}, m_2, m_q^{11}] + \frac{1}{8} m_2 s_Y \tilde{\mu} g_2^3 y_d^{11i2} \text{LF}_{2,1,1,0} [\tilde{\mu}, m_2, m_q^{11}] + \\
\frac{1}{8} g_2 \tilde{\mu} y_d^{\text{pi}2} y_u^{11r} (-s_Y \bar{a}_u^{\text{pr}} + \tilde{\mu} c_Y \bar{y}_u^{\text{pr}}) \text{LF}_{2,1,1,0} [\tilde{\mu}, m_q^{\text{P}}, m_u^r] + \\
\frac{1}{8} g_2 \tilde{\mu} y_d^{\text{pi}2} y_u^{11r} (-s_Y \bar{a}_u^{\text{pr}} + \tilde{\mu} c_Y \bar{y}_u^{\text{pr}}) \text{LF}_{3,1,1,-1} [\tilde{\mu}, m_q^{\text{P}}, m_u^r] \Big)
\end{aligned}$$