Erratum: Renormalization of the C2HDM with FeynMaster 2

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In eq. (6.7) of the published version, there is a complex conjugate missing in the form factors f_{10}^{tree} and f_{12}^{tree} . The correct version reads:

$$\Gamma_{h_2 \rightarrow h_1 Z}^{\text{NLO}} = \frac{1}{64 \pi m_2^3 m_Z^2} \left(m_1^4 + m_2^4 + m_Z^4 - 2 m_1^2 m_2^2 - 2 m_1^2 m_Z^2 - 2 m_2^2 m_Z^2 \right)^{3/2} \times \left\{ \left| f_{10}^{\text{tree}} + f_{12}^{\text{tree}} \right|^2 + 2 \operatorname{Re} \left[\left(f_{10}^{\text{tree}} + f_{12}^{\text{tree}} \right) \left(f_{10}^* + f_{12}^* \right) \right] \right\}. \quad (6.7)$$

As a consequence, figure 4 is slightly modified; the correct version is shown below. These corrections modify neither the content of the text nor the conclusions, which are correct.

Figure 4. $\Delta\Gamma_{h_2 \rightarrow h_1 Z}$ in percentage as a function of $\Gamma_{h_2 \rightarrow h_1 Z}^{\text{LO}}$, for the combinations C_1 (top left), C_2 (top right), C_3 (down left) and C_4 (down right). Only the interval $0.1 \text{ GeV} < \Gamma^{\text{LO}} < 2 \text{ GeV}$ is shown. The color conventions for C_1 , C_2 and C_3 are those of figure 1, whereas for C_4 are those of figure 3.

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