There is a typographical error in the original paper. The integral form of $H(m_1, m_2)$ in Appendix A [Eq. (A4)] should be

$$H(m_1, m_2) = \frac{1}{\epsilon} \left(\frac{2}{3} p^2 - m_1^2 - m_2^2\right) - \int_0^1 \! dx (4x(1-x)p^2 - 2xm_1^2 - 2(1-x)m_2^2) \log \frac{\Delta}{\mu^2},$$

where $\Delta = xm_1^2 + (1-x)m_2^2 - x(1-x)p^2 - i\epsilon$. 