

**Erratum:  $B_s \rightarrow l^+ l^-$  in a type-II two-Higgs-doublet model  
and the minimal supersymmetric standard model  
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Equations (30) and (31) should be

$$C_{Q_1}(m_W) = f_{ac} y_t \left[ \frac{\ln y_t}{1 - y_t} - \frac{\sin^2(2\alpha)}{4} \frac{(m_{h^0}^2 - m_{H^0}^2)^2}{m_{h^0}^2 m_{H^0}^2} f_1(y_t) \right], \quad (1)$$

$$C_{Q_2}(m_W) = -f_{ac} y_t \frac{\ln y_t}{1 - y_t}. \quad (2)$$

The definitions  $z = x/y$  and  $f_2(x, y)$  after Eq. (34) are not needed.

$G_{ijk}^{hH}$  and  $F_{kk'}^{hH}$  in Eq. (41) should be  $G_{ijk}^A$  and  $F_{kk'}^A$ .

A complex conjugation should be added to the factor

$$\left\{ -\sqrt{2} V_{i1}^* (T_{UL} K)_{ks} + V_{i2}^* \frac{(T_{UR} \tilde{m}_u K)_{ks}}{M_W \sin \beta} \right\} \quad (3)$$

in Eqs. (40) and (42) and the factor  $m_b m_t / 4 \sin^2 \theta_W M_W \lambda_t$  should be  $m_b m_t / 4 \sin^2 \theta_W M_W^2 \lambda_t$ .

The factor

$$\left[ 1 - \frac{\sin^2(2\alpha)}{2} \frac{(m_{h^0}^2 - m_{H^0}^2)^2}{2m_{h^0}^2 m_{H^0}^2} \right]$$

in Eqs. (A4), (B36), and the first line of Eq. (39) should be changed into

$$-\frac{\sin^2(2\alpha)}{2} \frac{(m_{h^0}^2 - m_{H^0}^2)^2}{2m_{h^0}^2 m_{H^0}^2}. \quad (4)$$

Equation (A11) should be

$$f_2(x, y) = \frac{x \ln y}{(z-x)(x-1)} + \frac{\ln z}{(z-1)(x-1)} \quad \text{with} \quad z = x/y. \quad (5)$$

Equation (B37) should be

$$C_{Q_2}^{PH} = -f_{ac} [-1 + (x_{H^-} - 1) r_A] x_t f_{C^0}(x_{H^-}, 1, x_t). \quad (6)$$

In Eq. (B47)  $x_{\tilde{u}_k}^-$  should be  $x_{\tilde{u}_k}^- = m_{\tilde{u}_k}^2 / M_W^2$ . At last, in Eqs. (B40) and (B41),

$$\sum_{i,j=1}^2$$

should be changed into

$$\sum_{i=1}^2.$$