**Erratum: Angular analysis of polarized top quark decay into
B mesons in two different helicity systems
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Because of some mistakes in Eqs. (22) and (27) of the paper, the equations should be replaced by the following relations:

$$T_1 = \delta(1 - x_b) \left[-\frac{3}{2} \ln \frac{\mu_F^2}{m_t^2} + \frac{2(1 - \omega)}{1 - 2\omega} \ln(1 - \omega) - \frac{2\pi^2}{3} - \frac{2\omega}{1 - \omega} \ln \omega + 2 \ln \omega \ln(1 - \omega) + 4Li_2(1 - \omega) - 6 \right] \\ + 2(1 + x_b^2) \left(\frac{\ln(1 - x_b)}{1 - x_b} \right)_+ + 2 \frac{1 + x_b^2}{(1 - x_b)_+} \ln \left[\frac{x_b(1 - \omega)m_t}{\mu_F} \right] + \frac{1 - S}{S(Sx_b^2 - 2x_b + 2)} - \frac{2}{1 - 4S} - \frac{\omega}{S(1 - x_b)} \\ - 1 - x_b - \frac{1 + x_b^2}{1 - x_b} H_1 + \left(\frac{1}{S(1 - x_b)} + \frac{4\omega}{(1 - 4S)(1 - 2Sx_b)} - \frac{1 - S}{S(Sx_b^2 - 2x_b + 2)} \right) |2Sx_b^2 - 2x_b + 1| \\ - \frac{H_2}{\sqrt{S(Sx_b^2 - 2x_b + 2)}} \left(\frac{1}{S} + \frac{2}{1 - 4S} + \frac{(13S - 5 - 4S^2)x_b}{1 - 4S} - \frac{Sx_b(x_b^2 - x_b + 2)}{1 - x_b} - \frac{(1 - S)[1 - (1 - S)x_b]}{S(Sx_b^2 - 2x_b + 2)} \right), \quad (22)$$

where $S = (1 - \omega)/2$, $H_1 = \ln[(1 - S)x_b^2 - x_b + \frac{1}{2} + \frac{1}{2}|2Sx_b^2 - 2x_b + 1|]$ and $H_2 = \ln[(1 - x_b)(1 - 3Sx_b) + Sx_b^2(1 - 2Sx_b) + \sqrt{S(Sx_b^2 - 2x_b + 2)}|2Sx_b^2 - 2x_b + 1|] - \ln[1 + (S - 1)x_b + \sqrt{S(Sx_b^2 - 2x_b + 2)}]$, and

$$T_2 = \frac{1 + (1 - x_g)^2}{x_g} \left(-H_4 + 2 \ln \left[x_g(1 - \omega)(1 - x_g) \frac{m_t}{\mu_F} \right] \right) + \left(-x_g + \frac{1 + \omega^2}{4S^3x_g^2} + \frac{8S^2 - 6S + 3}{S(4S - 1)} + \frac{2 - \omega^2(2\omega - 5)}{2S^2(1 - 4S)x_g} \right) H_3 \\ + \left(\frac{S - 1}{2S^2x_g^2} + \frac{\omega}{2(1 - 2Sx_g)^2} - \frac{12S^2 - 15S + 7}{2S(1 - 4S)x_g} - \frac{24S^2 - 26S + 9}{2(1 - 4S)(1 - 2Sx_g)} \right) |2Sx_g^2 - 2x_g + 1| \\ + x_g + \frac{1 - S}{2S^2x_g^2} - \frac{2}{1 - 4S} + \frac{12S^2 - 7S + 5}{2S(1 - 4S)x_g}, \quad (27)$$

where $H_3 = \ln[1 - S(-2Sx_g^2 + 2x_g + 1 - |2Sx_g^2 - 2x_g + 1|)] - \ln[1 - 2Sx_g]$ and $H_4 = \ln[(1 - S)x_g^2 - x_g + \frac{1}{2} + \frac{1}{2}|2Sx_g^2 - 2x_g + 1|]$.

In Eq. (30), the following replacement should be considered:

$$\frac{\Gamma_{2B}^{\text{nlo}}}{\Gamma_B^{(0)}} = 1 - 0.1162. \quad (30)$$