Erratum: Modeling all-electrical detection of the inverse Edelstein effect by spin-polarized tunneling in a topological-insulator/ferromagnetic-metal heterostructure [Phys. Rev. B **97, 144417 (2018)]**

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We have found the following typographical errors in the original article. The function μ_Y is a function of y and should read $\mu_Y = B_1 e^{s_1 y} + B_2 e^{s_2 y}$ instead of $\mu_Y = B_1 e^{s_1 x} + B_2 e^{s_2 x}$. Hence, j_y should read $j_y = -\sigma' c_Y (B_1 e^{s_1 y} - B_2 e^{s_2 y}) \mu_X(x)$ instead of $j_y = -\sigma' c_Y (B_1 e^{s_1 x} - B_2 e^{s_2 x}) \mu_X(x)$. In the same paragraph, the sentence “The solution of the boundary condition $j_x = 0$, $\forall y$ at $x = 0, L_x$ implies $r_1 = r_2 = b_0 m_y$, i.e., $c_X = 0$, $c_Y = c_0$.” should read “The solution of the boundary condition $j_x = 0$, $\forall y$ at $x = 0, L_x$ for $j_x = 0$ inside the rectangle implies $r_1 = r_2 = b_0 m_y$, i.e., $c_X = 0$, $c_Y = c_0$.” Both Eqs. (17) and (18) contain the wrong signs in $e^{-b_0 m_x L_y}$ in the denominators. So, Eq. (17) should read

$$\mu(x, y) = -\frac{I_c b_0 m_y e^{b_0 m_y x}}{\sigma' e^{b_0 m_y L_x} - 1} \frac{e^{-b_0 m_x y} \cosh(c_0 y)}{e^{-b_0 m_x L_y} c_0 \sinh(c_0 L_y)}, \quad (17)$$

and Eq. (18) should read

$$\mu(x, y) = -\frac{I_c}{\sigma'} \frac{1}{L_x} \frac{e^{-b_0 m_x y} \cosh(c_0 y)}{e^{-b_0 m_x L_y} c_0 \sinh(c_0 L_y)}. \quad (18)$$

All the above corrections do not affect the results, the discussion, and the conclusion of the original article.