**Erratum: Spin-dependent two-body interactions from
gravitational self-force computations
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While all of our final results concerning the EOB potentials $\delta A(u, \hat{a})$ and $\delta G_S(u, \hat{a})$ (and their decompositions in powers of $\hat{a}$) were correct (and correctly printed), some misprints crept in the 8.5PN-level coefficients of the intermediate quantities $-h_{kk}^{(1)}$ and $-\delta U^{(1)}$, as displayed in Eqs. (3.7) and (3.11) of the paper. We list below the corrected values of these ($\hat{a}$ -linear) 8.5PN-level coefficients.

(1) The last term of Eq. (3.7) should read

$$\begin{aligned}
 -h_{kk}^{(1)} = & \dots \\
 & + \left[-\frac{3268339807}{155925} \ln(u) + \frac{43808}{45} \ln(u)^2 - \frac{63064680978612989}{922078080000} + \frac{175232}{45} \gamma \ln(u) \right. \\
 & + \frac{12252544}{1575} \ln(2) \ln(u) + \frac{7009035336469}{176947200} \pi^2 - \frac{75337409381}{25165824} \pi^4 - \frac{923862722}{22275} \gamma - \frac{19712}{3} \zeta(3) \\
 & - \frac{102426992006}{1819125} \ln(2) + \frac{175232}{45} \gamma^2 + \frac{24491392}{1575} \ln(2)^2 + \frac{24505088}{1575} \gamma \ln(2) \\
 & \left. - \frac{34368219}{3080} \ln(3) - \frac{1953125}{792} \ln(5) \right] u^{19/2} + O(u^{10} \ln u).
 \end{aligned}$$

The last term in the first equation of Eqs. (3.11) should read

$$\begin{aligned}
 -\delta U^{(1)} = & \dots \\
 & + \left[-\frac{2167536532386661}{2521307250} + \frac{780002666754601}{7431782400} \pi^2 - \frac{40237200436}{16372125} \ln(y) \right. \\
 & - \frac{70924306472}{16372125} \gamma - \frac{144895599176}{16372125} \ln(2) - \frac{43593199495}{16777216} \pi^4 + \frac{10841769}{6160} \ln(3) + \frac{2620096}{1575} \ln(2) \ln(y) \\
 & + \frac{437824}{525} \gamma \ln(y) + \frac{5240192}{1575} \gamma \ln(2) - \frac{5504}{5} \zeta(3) - \frac{9765625}{14256} \ln(5) + \frac{109456}{525} \ln(y)^2 \\
 & \left. + \frac{437824}{525} \gamma^2 + \frac{1744448}{525} \ln(2)^2 \right] y^{19/2}.
 \end{aligned}$$

The resulting expression for δU is then in full agreement with the results of Ref. [1] [see Eq. (4.2) there].

- (2) At the end of the term between square brackets in the line after Eq. (3.10), one should add a parenthesis “)”.
- (3) In the first line after Eqs. (3.11), one should replace $O(u^{10} \ln u)$ by $O(y^{10} \ln y)$.
- (4) Three lines after Eqs. (3.11), $\hat{y}^{13/2}$ should be replaced by $\hat{a} y^{13/2}$.

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S. Hopper, C. Kavanagh, and A. C. Ottewill, Analytic self-force calculations in the post-Newtonian regime: Eccentric orbits on a Schwarzschild background, *Phys. Rev. D* **93**, 044010 (2016).