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Corrigendum: The third post-Newtonian gravitational wave polarizations and associated spherical harmonic modes for inspiralling compact binaries in quasi-circular orbits

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In the paper [1], we have noticed a calculational error in the current quadrupole source moment J_{ij} at 2.5PN order. As a result the expressions of J_{ij} at 2.5PN order, of the polarization waveforms $H_+^{(3)}$ and $H_\times^{(3)}$ at 3PN order, and of the spherical harmonic mode \hat{H}^{21} at 3PN order have to be corrected. The changes are as follows.

(1) Equation (5.15b), second line, coefficient of the term $(-v m \Delta)(r/c) \gamma^2 v \varepsilon_{ab(i} v_{j)a} x_b$:

$$-\frac{484}{105} \longrightarrow -\frac{188}{35}.$$

(2) Equation (8.9g), 17th line, coefficient of the term $\Delta s_i \sin(\psi) v$:

$$\frac{81\,127}{10\,080} \longrightarrow \frac{1369}{160}.$$

(3) Equation (8.10g), second line, coefficient of the term $\Delta s_i c_i \cos(\psi) v$:

$$-\frac{48\,239}{5040} \longrightarrow -\frac{2419}{240}.$$

(4) Equation (9.4b), third line, coefficient of the term $\frac{1}{3} \Delta (x^3) (i) (v)$:

$$-\frac{995}{84} \longrightarrow -\frac{353}{28}.$$

References

- [1] Blanchet L, Faye G, Iyer B R and Sinha S 2008 *Class. Quantum Grav.* **25** 165003