Erratum: Parameter estimation of inspiralling compact binaries using 3.5 post-Newtonian gravitational wave phasing: The nonspinning case [Phys. Rev. D 71, 084008 (2005)]

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The contribution of tails in the gravitational wave luminosity $\mathcal{L}$ has been incorrectly computed in Refs. [1,2] leading to some erroneous η dependent terms in the post-Newtonian coefficients in Refs. [3,4] and consequently in Refs. [5,6] at 2.5PN and 3.5PN orders, which were corrected recently in Refs. [7–12], respectively. As a result Eqs. (3.4f), (3.4h), and (4.8) of the present paper have changed and should read

$$\alpha_5 = \pi\left(\frac{38\,645}{756} + \frac{38\,645}{252}\log\left(\frac{v}{v_{\rm lso}}\right) - \frac{65}{9}\eta\left[1 + 3\log\left(\frac{v}{v_{\rm lso}}\right)\right]\right), \tag{3.4f}$$

$$\alpha_7 = \pi\left(\frac{77\,096\,675}{254\,016} + \frac{378\,515}{1512}\eta - \frac{74\,045}{756}\eta^2\right), \tag{3.4h}$$

$$\begin{aligned}\left(\frac{dF}{dt}\right)^{\rm 3.5PN} = {} & \frac{96}{5\pi\mathcal{M}^2}(\pi\mathcal{M}F)^{11/3}\left[1 - \left(\frac{743}{336} + \frac{11}{4}\eta\right)(\pi MF)^{2/3} + (4\pi)(\pi MF) + \left(\frac{34\,103}{18\,144} + \frac{13\,661}{2016}\eta + \frac{59}{18}\eta^2\right)\right. \\ & \times (\pi MF)^{4/3} + \left(-\frac{4159\pi}{672} - \frac{189\pi}{8}\eta\right)(\pi MF)^{5/3} + \left[\frac{16\,447\,322\,263}{139\,708\,800} + \frac{16\pi^2}{3} - \frac{1712}{105}\gamma\right. \\ & + \left(-\frac{273\,811\,877}{1\,088\,640} + \frac{451\pi^2}{48} - \frac{88}{3}\theta + \frac{616}{9}\lambda\right)\eta + \frac{541}{896}\eta^2 - \frac{5605}{2592}\eta^3 - \frac{856}{105}\log(16x)\left.\right](\pi MF)^2 \\ & \left. + \left(-\frac{4415}{4032} + \frac{358\,675}{6048}\eta + \frac{91\,495}{1512}\eta^2\right)\pi(\pi MF)^{7/3}\right].\end{aligned} \tag{4.8}$$

Though these changes modify all the Tables in the present paper, they are too small (less than 1%) to be listed here. The modified Tables can be found in the E-print version of the paper (gr-qc/0411146).

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