Erratum: Leading higher-derivative corrections to Kerr geometry

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There was an error when copying eqs. (4.41), (4.42) and (4.43) from the *Mathematica* file. The error does not propagate and, in particular, the figures are not affected. The correct expressions for eqs. (4.41), (4.42) and (4.43) are the following

$$\Delta\omega_{\pm}^{(1)} = \frac{4397}{65610\sqrt{3}} \pm \frac{20596\chi}{295245} + \frac{1028803\chi^2}{14467005\sqrt{3}} \pm \frac{45262543\chi^3}{3906091350} - \frac{3685587061\chi^4}{328111673400\sqrt{3}} \quad (4.41)$$

$$\mp \frac{110632797883\chi^5}{5413842611100} - \frac{910228742414947\chi^6}{17151053391964800\sqrt{3}} \mp \frac{15449837941866829\chi^7}{401334649371976320} + \mathcal{O}(\chi^8),$$

$$\Delta\omega_{\pm}^{(2)} = \mp \frac{131\chi}{5103} - \frac{11047\chi^2}{381024\sqrt{3}} \mp \frac{9491513\chi^3}{1388832480} - \frac{19022279\chi^4}{925888320\sqrt{3}} \quad (4.42)$$

$$\mp \frac{353193404087\chi^5}{23099061807360} - \frac{2452581602509\chi^6}{63522419970240\sqrt{3}} \mp \frac{5958423964756267\chi^7}{222963694095542400} + \mathcal{O}(\chi^8),$$

$$\Delta\omega_{\pm}^{(\text{ev})} = \frac{20}{2187\sqrt{3}} \pm \frac{320\chi}{19683} + \frac{26749\chi^2}{1928934\sqrt{3}} \mp \frac{12967\chi^3}{104162436} - \frac{4415651\chi^4}{1249949232\sqrt{3}} \quad (4.43)$$

$$\mp \frac{3101153\chi^5}{937461924} - \frac{33998483\chi^6}{6629195034\sqrt{3}} \mp \frac{18127693795\chi^7}{6682228594272} + \mathcal{O}(\chi^8),$$

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References

- [1] P.A. Cano and A. Ruipérez, *Leading higher-derivative corrections to Kerr geometry*, [JHEP 05 \(2019\) 189](#) [[arXiv:1901.01315](#)].