

## Addendum: On the ionization of a Keplerian binary system by periodic gravitational radiation [J. Math. Phys. 37, 3997–4016 (1996)]

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In our paper,<sup>1</sup> two equations have incorrect forms due to printing errors. The last equation on p. 4004 should read

$$F^L(e, \ell, g) = U_{2m}(e) \sin(2g + 2m\ell) + \frac{\delta}{4} [(\alpha - \beta) U_m(e) \sin(2g + m\ell)]$$

and, similarly, the last equation on p. 4007 should read

$$0 = \frac{d}{d\vartheta} [\Pi D \Delta(\Gamma(\vartheta), 0) Y'(\vartheta)] \Big|_{\vartheta=0} = \Pi D^2 \Delta(\eta, 0) (\Gamma'(0), Y'(0)) + \Pi D \Delta(\eta, 0) Y''(0).$$

Inclusion of radiative damping in our model due to gravitational radiation reaction is expected to lead to transient chaotic effects.<sup>2</sup>

<sup>1</sup>C. Chicone, B. Mashhoon, and D. G. Retzliff, "On the ionization of a Keplerian binary system by periodic gravitational radiation," J. Math. Phys. **37**, 3997–4016 (1996).

<sup>2</sup>C. Chicone, B. Mashhoon, and D. G. Retzliff, "Gravitational ionization: a chaotic net in the Kepler system," preprint (1996).