Erratum: Vectorial elements for the Galactic disc tide effects in cometary motion

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The paper 'Vectorial elements for the Galactic disc tide effects in cometary motion' was published in Mon. Not. R. Astron. Soc. **364,** 1222–1228. Unfortunately, a mistake was detected in the paper.

The problem begins immediately after equation (38), where V^* is defined as $\langle V \rangle /(n_0 a^2)$, instead of the correct $V^* = \langle -V \rangle /(n_0 a^2)$. Accordingly, one should substitute $V^* = -\mathcal{K}^*$ for $V^* = \mathcal{K}^*$. As a consequence, some of the following equations in Sections 3 and 4 should have opposite signs.

The list of equations whose right-hand sides have to be multiplied by (-1) is: equations (42–47), (61), (62), (79–82), (84), (87–90), (93) and (94). The matrices in equations (92), (97) and (100–101) should be transposed.

Alternatively, throughout Sections 3 and 4 (except for Section 3.2.3) one may simply take the formulae as they are, but with the independent variable τ given by

$$\frac{\mathrm{d}\tau}{\mathrm{d}t} = -\varepsilon^2 n_0$$

instead of by equation (13).

REFERENCES

Breiter S., Ratajczak R., 2005, MNRAS, 364, 1222

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