

Errata

My attention has been drawn to some mistakes in a paper in *Astrophys. Space Sci.* **54** (1978), 467–478. (Density wave-star interaction of a differentially rotating spiral system.)

Equation (5) should read:

$$\frac{1}{2} \nabla(\boldsymbol{\Omega} \wedge \mathbf{r})^2 = \boldsymbol{\Omega} \wedge (\mathbf{r} \wedge \boldsymbol{\Omega}) + (\boldsymbol{\Omega} \wedge \mathbf{r}) \wedge [\mathbf{r} \cdot \nabla \boldsymbol{\Omega}] + (\boldsymbol{\Omega} \wedge \mathbf{r}) \cdot [(\nabla \boldsymbol{\Omega}) \wedge \mathbf{r}].$$

Equation (6) should read:

$$\frac{\partial L}{\partial \mathbf{q}} = \mathbf{v} \wedge \boldsymbol{\Omega} + \boldsymbol{\Omega} \wedge (\mathbf{r} \wedge \boldsymbol{\Omega}) + (\mathbf{v} + \boldsymbol{\Omega} \wedge \mathbf{r}) \wedge (\mathbf{r} \cdot \nabla \boldsymbol{\Omega}) + (\mathbf{v} \cdot \nabla \boldsymbol{\Omega}) \wedge \mathbf{r} + (\boldsymbol{\Omega} \wedge \mathbf{r}) \cdot [(\nabla \boldsymbol{\Omega}) \wedge \mathbf{r}].$$

Equation (8) should read:

$$\frac{d\mathbf{v}}{dt} = \nabla \psi + 2\mathbf{v} \wedge \boldsymbol{\Omega} + \boldsymbol{\Omega} \wedge (\mathbf{r} \wedge \boldsymbol{\Omega}) + (\mathbf{v} + \boldsymbol{\Omega} \wedge \mathbf{r}) \wedge (\mathbf{r} \cdot \nabla \boldsymbol{\Omega}) + (\boldsymbol{\Omega} \wedge \mathbf{r}) \cdot [(\nabla \boldsymbol{\Omega}) \wedge \mathbf{r}] + \mathbf{v} \cdot [(\nabla \boldsymbol{\Omega}) \wedge \mathbf{r}].$$

Equation (9a) and (9b) should read:

$$\begin{aligned} \ddot{x} &= \frac{\partial \psi}{\partial x} + 2\Omega \dot{y} + \Omega^2 x + [(x\dot{y} - \dot{x}y) + \Omega(x^2 + y^2)] \frac{\partial \Omega}{\partial x}, \\ \ddot{y} &= \frac{\partial \psi}{\partial y} - 2\Omega \dot{x} + \Omega^2 y + [(x\dot{y} - \dot{x}y) + \Omega(x^2 + y^2)] \frac{\partial \Omega}{\partial y}. \end{aligned}$$

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