
ERRATA

Erratum: Chaos and order of laser-cooled ions in a Paul trap
[Phys. Rev. A 40, 808 (1989)]

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PACS number(s): 05.45.+b, 42.50.Vk, 32.80.Pj, 99.10.+g

The constants of the motion, F and G , in Eqs. (36)–(38) are stated incorrectly. Equation (36) should read

$$F(\rho, \dot{\rho}, \xi, \dot{\xi}; \nu) = I_{\xi}^{(\nu=0)} + \frac{\nu^2 \xi}{\rho^2}.$$

Equation (37) should read

$$G(\rho, \dot{\rho}, \xi, \dot{\xi}; \nu) = I_{\rho}^2 + I_{\phi}^2 + \nu^2(\rho^2 + \xi^2),$$

where

$$I_{\rho} = \frac{\nu^2}{\rho} + \rho \xi^2 - \dot{\rho} \xi \dot{\xi} + \frac{\rho}{(\rho^2 + \xi^2)^{1/2}} - \frac{1}{4} \xi^2 \rho.$$

Equation (38) should read

$$I_{\phi} = -\frac{\nu}{\rho}(\rho \dot{\rho} + \xi \dot{\xi}).$$

Moreover, there is a sign mistake in Eq. (34). Replace \dot{C}_{ρ} with $-\dot{C}_{\rho}$ and \dot{C}_{ξ} with $-\dot{C}_{\xi}$. Finally, in the sentence immediately preceding Eq. (35a) replace $\lambda = \frac{1}{2}$ with $\lambda = 2$ and $\lambda = 2$ with $\lambda = \frac{1}{2}$.

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Erratum: Semiclassical chaos in quartic anharmonic oscillators
[Phys. Rev. A 45, 5373 (1992)]

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PACS number(s): 05.40.+j, 03.65.Sq, 05.45.+b, 99.10.+g

The following errata were incurred during production. The third term in Eq. (38) should read

$$\frac{\hbar \omega_a}{3\beta} = \eta,$$

$$\frac{\alpha^2}{3\beta} (1 - x_0^2/x_{cl}^2)$$

in agreement with (17). The third term in Eq. (41) should be the negative of the above.

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Erratum: Semiclassical chaos, the uncertainty principle, and quantum dissipation
[Phys. Rev. A 45, 8490 (1992)]

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PACS number(s): 05.45.+b, 99.10.+g

This is a misprint in Eq. (3.9). It should read

$$\hat{L}_{\text{QGD}} \equiv g \frac{\partial}{\partial p} \left[\frac{\partial}{\partial x_1} - \frac{\partial}{\partial x_1} x_1^2 - \frac{\partial}{\partial x_2} x_1 x_2 - \frac{\partial}{\partial x_3} x_1 x_3 \right].$$