ERRATA

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

R. Blümel, C. Kappler, W. Quint, and H. Walther

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

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

Equation (37) should read

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

where

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

Equation (38) should read

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

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

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

J. T. Anderson

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

$$\frac{\hbar\omega_a}{\frac{\alpha^2}{3\beta}(1-x_0^2/x_{\rm cl}^2)}=\eta \ ,$$

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

$$\hat{L}_{\rm QGD}\equiv g\frac{\partial}{\partial p}\left[\frac{\partial}{\partial x_1}-\frac{\partial}{\partial x_1}x_1^2-\frac{\partial}{\partial x_2}x_1x_2-\frac{\partial}{\partial x_3}x_1x_3\right] \ .$$

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