ERRATA

Erratum: Chaos and order of laser-cooled ions in a Paul trap

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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

\[
F(\rho, \dot{\rho}, \xi, \dot{\xi}; \nu) = I_5^{\nu=0} + \frac{\nu^2 \xi}{\rho^2}.
\]

Equation (37) should read

\[
G(\rho, \dot{\rho}, \xi, \dot{\xi}; \nu) = I_3^\rho + I_4^\xi + \nu^2(\rho^2 + \xi^2),
\]

where

\[
I_3^\rho = \frac{\nu^2}{\rho} - \rho \dot{\xi}^2 - \rho \xi \dot{\xi} + \frac{\rho}{(\rho^2 + \xi^2)^{1/2}} - \frac{1}{2} \xi^2 \rho.
\]

Equation (38) should read

\[
I_4^\xi = -\frac{\nu^2}{\rho} (\rho \dot{\rho} + \xi \dot{\xi}).
\]

Moreover, there is a sign mistake in Eq. (34). Replace \( \dot{C}_\rho \) with \( -\dot{C}_\rho \) and \( \dot{C}_\xi \) 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

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

\[
\frac{\hbar \omega_a}{\alpha^2 (1 - x_a^2 / x_0^2)} = \eta,
\]

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

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

\[
\hat{L}_{QD} = \frac{\hbar}{\alpha} \left[ \frac{\partial}{\partial x_1} - \frac{\partial}{\partial x_1} x_1^2 - \frac{\partial}{\partial x_2} x_1 x_2 - \frac{\partial}{\partial x_3} x_1 x_3 \right].
\]

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