ERRATA

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

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

\[ F(p, \rho, \xi, z; \nu) = I_0^{\nu=0} + \frac{\nu^2 \xi}{\rho^2}. \]

Equation (37) should read

\[ G(p, \rho, \xi, z; \nu) = I_0^{\nu} + I_0^{\nu} + \nu^2 (\rho^2 + \xi^2), \]

where

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

Equation (38) should read

\[ I_\nu = - \frac{\nu}{\rho} (\rho \nu + \xi \nu). \]

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 $\lambda = \frac{1}{2}$.

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

\[ \frac{\hbar \omega_0}{3 \beta (1 - x_3^2 / x_3^2)} = \eta, \]

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

Erratum: Semiclassical chaos, the uncertainty principle, and quantum dissipation

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

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