Erratum: Quantum theory of the stability region of an ion in a Paul trap

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We would like to correct a typographical error in our publication. Equation (19) should be revised as

\[
B_0 = (mc/u)^{1/4},
\]

(19)

\[
B_k = \frac{1}{mk^2 \omega^2 B_0^3 - 4uB_0^3} \left[ -m \omega^2 F_k^1 + m \omega^2 F_k^2 + 2 + u F_k^4 + v F_k^{4-1} \right].
\]

Erratum: Distribution of electrons in double photoionization of helium and heavier atoms in the asymptotic region

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To avoid misunderstanding, the following insertions should be made in the text:

1. This paragraph should follow the one containing Eq. (6): To obtain the energy distribution it is crucial to take into account that the electrons can exchange by hard photons carrying large momenta of the order \( p_1 \gg \eta \) [1]. While \( J/\epsilon, \ll 1 \) the interaction can be included in the lowest order of perturbative theory. This is illustrated by Figs. 1(b) and 1(c), where the final-state and intermediate-state electrons are described by free functions. The initial state is described by the function \( \Psi(r_1, r_2) \).

2. After Eq. (23) it should read: Here, as well as in Eq. (4), the hard photon exchange is included in the function \( \psi(r_1, r_2) \). This leads to \( i(eV_1)\Psi(r_1, r_2) \sim 4 \pi a m [(e \rho)/\rho] \Psi(r_1, r_1) \).