

Errata

Erratum: Theory of coherences produced by radiatively assisted inelastic collisions: Weak-field impact-core limit [Phys. Rev. A 22, 1848 (1980)]

Paul R. Berman

- (1) Change all $(\epsilon_j)^*$ (usually ϵ_j^*) to $(-1)^{Q_j}\epsilon_{-j}$ and all ϵ_s to $[(-1)^{Q_s}\epsilon_{-s}]^*$ in Eqs. (27a), (42), (45), (47), (48), (52), (54), (A16), (A18), (A20), (B2), and (B3).
- (2) The right-hand side of Eqs. (26), (29), (A18), (A20), and (B3) should be multiplied by $(4\hbar^2)^{-1}$.
- (3) Delete the factor $2^{1/2}$ in Eq. (33).
- (4) The right-hand side of Eq. (A16) should be multiplied by $(2\hbar)^{-1}$.
- (5) In the first $6-J$ symbol in Eq. (A16), interchange $J_{\bar{F}}$ and $J_{\bar{F}}'$.
- (6) In Eq. (B6) change F to f .
- (7) In Eq. (C8d) change the "6" to a "3."
- (8) In Eq. (C11c) change A_{10}^{11} to A_{00}^{11} .

Erratum: Collision kernels and laser spectroscopy [Phys. Rev. A 25, 2550 (1982)]

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- (1) The sentence following Eq. (B8) was set incorrectly. It should read, "Using the properties of the Bessel functions,¹⁷ one can show that $\eta_l^{(l)} \sim 0$ exponentially for $l > kb_l$, provided $kb_l \gg 1$. This result implies that the summation in Eq. (B7) can be truncated at

$$L_i = kb_i \tag{B9}$$

(assuming $b_i < b_j$).

- (2) The coefficient of the second term in brackets in Eq. (A16a) should be $\frac{1}{2}$ rather than 2.
- (3) The right-hand side of Eq. (59) and the equation immediately preceding it should be multiplied by $\exp(2i\omega T)$. The second pulse in a photon echo changes the sign of Kv_z (and any other atom-field detuning) rather than the sign of $(\omega + Kv_z)$ as stated in the text.
- (4) The factor $k^2 b^2 \theta^4$ in Ref. 19 should be replaced by θ^2 .

Erratum: Linear susceptibility of a three-level system driven by an intense multimode laser field [Phys. Rev. A 27, 961 (1983)]

V. Yu Finkelshtein

- On page 962 five lines below Eq. (2), Δ_{20} should be replaced by Δ_{10} .
 On page 965 near the bottom on the left in the equation for $\chi(\Delta_1, \tau)$, the integral should be over $d\tau_1$, not $d\tau_2$.
 On page 967, Eq. (27) should read $M(\tau + n) = M^n(1)M(\tau)$, $0 \leq \tau \leq 1$.
 On page 972 the Δ_2 in the denominator of the bottom part of Eq. (54) should be Δ_1 .
 On page 973 in Eq. (58), $(1 + l^2)$ should be $(1 + e^2)$.