Errata

Erratum: Inner-shell Coulomb excitation in the collisions of few-electron F with H_2 and He [Phys. Rev. A 14, 1634 (1976)]

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The normalization value of 0.28 indicated for F^{9+} in He on p. 1635, left column, line 17 and in Fig. 2 should be replaced by the value 0.11. The paper is otherwise unchanged, as the capture curves in Fig. 2 and in Fig. 4 were computed using the latter correct scaling.

Erratum: Electron scattering from atoms in the presence of a laser field. II. [Phys. Rev. A 14, 1338 (1976)]

Marvin H. Mittleman

Equation (2.21) should read

$$\frac{P_+}{P_-}=\frac{w_-}{w_+}=e^{+4\mu}$$

which leads to a change in Eq. (2.23) which should be

$$P_\pm=\tfrac{1}{2}e^{\pm 2\mu}/\cosh 2\mu\ .$$

Equations (3.17)–(3.19) are also changed, respectively, to

$$\frac{d\bar{\sigma}_0^{(\pm)}}{d\Omega}=\frac{\beta'^2}{(2\pi)^2}\left(|\langle\vec{p}_f,0|V(1\pm X_{12})|\vec{p}_i,0\rangle|^2\left(\frac{1}{\beta'^2}-1\right)+\sum_m|\langle\vec{p}_f,m|V(1\pm X_{12})|\vec{p}_i,1\rangle|^2\right),$$

$$\frac{d\bar{\sigma}_1^{(\pm)}}{d\Omega}=\frac{\beta'^2}{(2\pi)^2}\left(1+\frac{\omega}{p_i^2}\right)^{1/2}|\langle\vec{p}_f,0|V(1\pm X_{12})|\vec{p}_i,0\rangle|^2\ ,$$

$$\frac{d\bar{\sigma}_{-1}^{(\pm)}}{d\Omega}=\frac{1}{(2\pi)^2}(1-\beta'^2)\left(1-\frac{\omega}{p_i^2}\right)^{1/2}\sum_m|\langle\vec{p}_f,m|V(1\pm X_{12})|\vec{p}_i,0\rangle|^2\ ,$$

where now

$$\beta'^2=(2\cosh 2\mu)^{-1}\ .$$

This gives the correct behavior when the laser decouples from the atom, i.e., in the limit $\mu\to\pm\infty$.