CORRIGENDUM

Projectile charge dependence of electron-capture cross sections

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Corrigenda

Projectile charge dependence of electron-capture cross sections


Equation (A.8) is valid only for s states; it does not apply to the case with \( l \neq 0 \) since the operators \( \nabla_q \) and \( \partial/\partial q_{x,y} \) do not commute with each other. In general, for states with arbitrary hydrogenic quantum numbers \( nlm \) it follows that

\[
K = Z_A \left[ \left( \frac{\partial}{\partial \lambda} + i \nabla_q \right) \int ds \frac{\exp(iq \cdot s - \lambda s)}{s} \phi_{nlm}^*(s) F_1(1 + i\nu_A, 2, iv \cdot s + ivs) \right]_{\lambda=0}.
\]

(A.8')

All results of the CDW approximation have correctly been obtained by means of equation (A.8').

Positron drift in molecular hydrogen


On page L228 under equation (2) the value of \( r_0 \) given is incorrect. The parameter \( r_0 \) is, of course, the classical electron radius:

\[
r_0 = 2.818 \times 10^{-13} \text{ cm}.
\]