Erratum: First-order amplitude for general state-to-state transitions in hydrogen by projectile impact [Phys. Rev. A 43, 1381 (1991)]

Jack C. Straton (Received 17 October 2005; published 5 December 2005)

DOI: 10.1103/PhysRevA.72.069904 PACS number(s): 34.10.+x, 02.90.+p, 34.50.Fa, 99.10.Cd

Five errors appeared in Eq. (41) of this paper: The first sum in the second line should have had s'! rather than s! in the denominator. The third line was missing a factor of $2(-1)^{m'}$ and the second delta function should have read $\delta_{m-m'}$. The exponent of B in the q sum in the sixth line should have read 2q+m'+m. The three ω 's in the third and eighth lines should have had absolute value signs (the ω on the seventh line should be a signed quantity since it comes from differentiating $\exp(-i\omega t)$ with respect to ω , not $|\omega|$).

Equation (A11) also had two errors. The correct version is:

$$a_{i}^{i} \equiv 1,$$

$$a_{i}^{i-1} = -\binom{i+1}{2},$$

$$a_{i}^{i-k} = -\sum_{m=0}^{k-1} a_{i}^{i-m} \binom{i+k-2m}{2k-2m} (2k-2m-1) !!, \quad 1 < k < (i+1)/2,$$

$$a_{i}^{k} \equiv 0, \quad k < i/2.$$
(A11)