
 Errata

Erratum: 2s and 2p electron excitation in atomic hydrogen
[Phys. Rev. 133, A970 (1964)]

Kazem Omidvar

Through a program error the S_{33} element of the 4×4 scattering matrix \underline{S} in the three-state $1s-2s-2p$ close-coupling approximation for the total orbital angular momentum $L=0$ has been entered as -1 into the computer instead of $+1$. This error could not have been detected and has escaped detection by the three detection tests, namely, the symmetry and the unitarity of the \underline{S} matrix, and the symmetry relation given by Eq. (3.21) in the first reference. As a result of this error, a spurious number 4 has been added to the sum of the squares of absolute values of those transition matrix elements T_{ij} that are used to calculate the $2p-2p$ cross sections. Therefore, the corrected $2p-2p$ cross sections are obtained by subtracting $1/3k_2^2$ for the singlet and $1/k_2^2$ for the triplet from the tabulated $2p-2p$ cross sections listed under $L=0$ in Tables III E and III G. k_2 here is the wave number in the $2p$ channel. The corrected cross sections are given below. These corrections also apply to the sum of the partial cross sections listed in Tables III E and III G.

The above error was discovered by L. A. Morgan and M. R. C. McDowell, and reported in J. Phys. B **12**, L739 (1979). The difference between the corrected cross sections for the singlet and triplet cases reported here and the corresponding values reported by these authors ranges from 0.3 to 7.1%. My thanks are due to L. A. Morgan and M. R. C. McDowell for their detection of the error.

 Partial ($L=0$) $2p-2p$ cross sections in πa_0^2 units at various energies

k_2	Exchange Neglected	Singlet	Triplet
0.24	26.40	2.296	11.23
0.50	8.038	1.137	0.3364
0.68	3.431	0.6190	0.6488
0.83	2.059	0.2593	0.5818
1.22	0.986	0.0591	0.3074
1.80	0.4586	0.0331	0.1214
2.87		0.0109	0.0352
3.91		0.0048	0.0149

Erratum: Anomalous radiation from a turbulent plasma
[Phys. Rev. A 20, 2498 (1979)]

M. Nambu and P. K. Shukla

Equation (6) should read

$$f_{1e}(k, \omega) = \frac{e}{m} E_1(k, \omega) \frac{\partial}{\partial v} f_{0e} / i(\omega - kv). \quad (6)$$

Equation (14) should read