For this it has been necessary to construct extended Hartree-Fock wave functions giving s and p polarization. However, it has been demonstrated[12,13] that, to first-order corrections, these wave functions can be obtained from a configuration interaction (CI) function built on a one-determinant HF function and all singly excited $s \rightarrow s'$ and $p \rightarrow p'$ functions with the symmetry (same S and L) of the HF determinant. Therefore, corrections to g_J cannot be produced with such wave functions. The atomic g factors test only the HF function upon which the CI is built.

*Work supported in part by Facultad de Ciencias, Universidad Nacional Autónoma de México.

†Work supported in part by Comisión Nacional de Energía Nuclear, México, D. F., México.

[1]V. Beltrán-López, E. Ley Koo, N. Segovia, and E. Blaisten, Phys. Rev. 172, 44 (1968).

[2]K. Kambe and J. H. Van Vleck, Phys. Rev. 96, 66 (1954).

[3]A. Abragam and J. H. Van Vleck, Phys. Rev. 92, 1448 (1953).

[4]F. R. Innes and C. W. Ufford, Phys. Rev. 111, 194 (1957).

[5]H. E. Radford and V. W. Hughes, Phys. Rev. 114, 1274 (1959).

[6]D. Wilkinson and H. Crame, Phys. Rev. 130, 852 (1963).

[7]E. Clementi, C. C. J. Roothaan, and M. Yoshimine, Phys. Rev. 127, 1618 (1962).

[8]W. E. Cleland, J. M. Bailey, M. Eckhause, V. W. Hughes, R. M. Mobley, R. Prepost, and J. E. Rothberg, Phys. Rev. Letters 13, 202 (1964).

[9]M. Phillips, Phys. Rev. 88, 202 (1952).

[10]J. C. Slater, The Quantum Theory of Atomic Structure (McGraw-Hill Book Co., New York, 1960), Vol. 1.

[11]R. H. Garstang, Monthly Notices Roy. Astron. Soc. 111, 115 (1951).

[12]N. Bessis, H. Lefebvre-Brion, and C. M. Moser, Phys. Rev. 128, 213 (1962).

[13]N. Bessis, H. Lefebvre-Brion, and C. M. Moser, Phys. Rev. 124, 1124 (1961).

ERRATUM

New Theory of Electron Drift Velocity in Gases, G. Cavalleri and G. Sesta [Phys. Rev. 170, 286 (1968)]. We are very grateful to Professor Skullerud for having pointed out an error in Eq. (25), which must read

$$W = \int_0^\infty w(c_0)T(c_0)f(c_0)dc_0 \Big/ \int_0^\infty T(c_0)f(c_0)dc_0 \ .$$