scattering wave function are extended; thus, in order to obtain accurate phase shifts, it is necessary to integrate the equations out to $100a_0$, while exchange and orthogonality terms are still dropped at $30a_0$.

Note that there are two basic advantages in using the NIEM. First, due to the simplicity of the

method, the programming required to solve a set of scattering equations is neither extensive nor involved. Second, the method offers a computational procedure with reliability, accuracy, and speed. The NIEM was at least a factor of 4 faster than the alternative numerical method, and we consider its accuracy to be superior.

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¹E. R. Smith and R. J. W. Henry, Phys. Rev. A 7, 1585 (1973).

²E. R. Smith, R. S. Oberoi, and R. J. W. Henry, J. Comput. Phys. 10, 53 (1972).

³I. C. Percival and M. J. Seaton, Proc. Camb. Philos. Soc. 53, 654 (1957).

⁴W. N. Sams and D. J. Kouri, J. Chem. Phys. 51, 4809 (1969).

⁵P. G. Burke, H. M. Schey, and K. Smith, Phys. Rev.

129, 1258 (1963).

⁶P. G. Burke and H. M. Schey, Phys. Rev. 126, 147 (1962).

⁷K. Smith, R. J. W. Henry, and P. G. Burke, Phys. Rev. 147, 21 (1966).

⁸F. E. Harris and H. Michels, Phys. Rev. Lett. 22, 1036 (1969).

⁹D. L. Knirk, E. F. Hayes, and D. J. Kouri, J. Chem. Phys. 57, 4770 (1972).

¹⁰P. G. Burke, D. F. Gallaher, and S. Geltman, J. Phys. B 2, 1142 (1969).

¹¹P. G. Burke, S. Ormonde, and W. Whittaker, Proc. Phys. Soc. Lond. 92, 319 (1967).

Errata

Magnetic Interactions of One-Electron Atoms and of Positronium, H. Grotch and R. Kashuba [Phys. Rev. A 7, 78 (1973)]. (a) In the discussion following Eq. (20) a factor of 2 was inadvertently lost and therefore the factor $\Delta\nu/\nu = 22 \times 10^{-6}$ or 22 ppm and the fractional error in $\Delta\nu/\nu$ should be about 14 ppm. (b) Equation (24a) should read

$$\langle 2|\mathcal{H}|0\rangle = -\sqrt{\frac{2}{3}}(e/m)H[1 + a_e - \frac{1}{20}\alpha^2 - \frac{1}{80}(a_e\alpha^2)].$$

The authors wish to thank M. L. Lewis for bringing these errors to our attention.

Temperature Fluctuations Associated with Gravity Waves at a Vapor-Superfluid Interface, J. Woods Halley [Phys. Rev. A 5, 1807 (1972)]. The following typographical errors should be noted:

(i) The right-hand side of Eq. (11) should read

$$-(\Delta\rho/\rho_s)[\dot{T}_s]_0 P'.$$

(ii) The subheading preceding Eq. (26) should read *Step (b): Velocity Potential for the Superfluid.*

(iii) In the sixth line of the section following Eq. (39) the expression in parentheses should read $\nu = 2.5$ Hz.

(iv) The second to the last equation of the same section should read

$$T_1 \approx (-2T\omega A/c_1^2)\exp(-\omega z/\sqrt{2}Dk) \\ \times \sin(kx - \omega t + \omega z/\sqrt{2}Dk).$$

(v) In the next section headed **RELATION TO THIRD SOUND...**, the fourth line of the third paragraph should read "locking of the normal fluid..."

I apologize for failing to mention the work of David Bergman.¹ This work complements the work of this paper in that it is restricted to films (though not very thin ones) but includes effects of thermal conductivity of the film and of the substrate as our work did not. I wish to thank Professor I. Rudnick for pointing out this work to me.

¹D. Bergman, Phys. Rev. 188, 370 (1969); Phys. Rev. A 3, 2058 (1971).