Errata

Erratum: Decay of the direct correlation function in linear lattice systems [Phys. Rev. A 29, 2854 (1984)]

M. Robert

An elementary arithmetic mistake is contained in the steps leading from the basic Eq. (4.3), which is correct, to Eq. (4.4). In terms of the variables x and y defined in (4.5), the left- and right-hand sides of Eq. (4.3), respectively, read

$$\lambda^2[\beta\mu_+ + (1-\beta)\mu_-] = A\,[x + (x^2-1+y)^{1/2}]^2(B-C) \tag{1}$$

and

$$\mu_+\mu_-[\beta\mu_- + (1-\beta)\mu_+] = A\,(y-1)(B+C)\ , \tag{2}$$

with

$$A = y^{-3/4}(x^2-1+y)^{-1/2}(x^2-y)^{-1/2}\ ,$$

$$B = (x^2-1+y)^{1/2}(x^2-y)^{1/2}(x^2-1)^{1/2}\ ,$$

$$C = x(x^2-1)^{1/2}(x^2-y)^{1/2}\ ,$$

so that up to their common factor $A\,(x^2-y)^{1/2}(x^2-1)^{1/2}$, (1) and (2) reduce to

$$[x + (x^2-1+y)^{1/2}]^2[(x^2-1+y)^{1/2} - x]\ , \tag{1'}$$

and

$$(y-1)[(x^2-1+y)^{1/2} + x]\ , \tag{2'}$$

respectively.

It is readily checked that (1') and (2') are identical: The factor $[(x^2-1+y)^{1/2}+x]$ is common to each of them, so that we must compare $[x+(x^2-1+y)^{1/2}][(x^2-1+y)^{1/2}-x]$ with $y-1$; but these are obviously identical. Consequently, the direct correlation function has always exactly the range of the intermolecular forces.

I am indebted to Dr. K. Tanaka, Dr. T. Morita, and Dr. K. Hiroike for pointing out this arithmetic mistake.

Erratum: Efimov states in ^{4}He trimers by two-body effective-range and scattering-length analysis: A comparison with Faddeev calculations [Phys. Rev. A 31, 3981 (1985)]

Stephen Huber

A number of errors appeared in Table I of this paper. Table I is reprinted below with corrections given in boldface type.

TABLE I. Potential-energy characteristics and dimer and trimer binding energies for ^{4}He molecules.

Potential	Core type	Location of min (Å)	Depth of min (K)	Dimer B.E. (K)	Timer binding energies (K) Ground	1st Efimov	2nd Efimov
Smith-Thakkar (Ref. 11)	Hard	2.8	−12.82	-5.53×10^{-3}	−0.150	-6.7×10^{-3}	None
ESMMSV (Ref. 12)	Soft	2.97	−10.57	**Unbound**	**−0.067**	**-1.6×10^{-4}**	**-7.1×10^{-6}**
MDD2 (Ref. 13)	Soft	3.02	−10.75	**-4.95×10^{-4}**	**−0.087**	**-1.1×10^{-3}**	**None**
Beck (Ref. 14)	Soft	3.0	−10.34	**-1.05×10^{-5}**	**−0.070**	**-2.2×10^{-4}**	**-1.5×10^{-5}**
Lennard-Jones (Ref. 15)	Hard	2.88	−10.22	Unbound	−0.066	-2.2×10^{-4}	-1.8×10^{-5}

