Errata

Errata: Comparative Study of Potential Energy Functions for Diatomic Molecules

[Revs. Modern Phys. 29, 664 (1957)] VATENDRA PAL VARSHNI Department of Physics, Allahabad University, Allahabad, India

N page 670, Eq. (40) should read

 $\alpha_e = 0.$

In line 4, read "0" in place of "2."

On page 671, Linnett function, Eq. (55) should read

$$\alpha_{e} = \left[\frac{(m+1)(m-1) - t^{2} + 3t}{3(m+1-t)}\right] \frac{6B_{e}^{2}}{\omega_{e}}$$

Consequently, F values in Table II are changed as follows:

t	F	
0	0.666	
1	1.111	
1.5	1.366	
2	1.666	
2.25	1.845	
2.5	2.055	
2.6	2.152	
2.7	2.258	
2.75	2.316	
2.8	2.37	
3.0	2.66	

On page 672, Lippincott function, Eq. (61) should read

$$\alpha_e = 0.$$

In line 24, delete "As (61) shows this appears to be in error." On page 677, Table IX, correct F values are

Linnett
$$(8+3t-t^2)/3(4-t)$$

Lippincott 0.

On page 679, Linnett function, change the discussion for α_o as follows:

"Too high at low Δ . Suitable for CO, N₂, NO, O₂."

Errata: Experimental Results on Charge-Changing Collisions of Hydrogen and Helium Atoms and Ions at Kinetic Energies above 0.2 kev

[Revs. Modern Phys. 30, 1137 (1958)] SAMUEL K. ALLISON

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- 1138 In text, above Eq. (II-1), for " $d\sigma_{if}/d\theta$ would be a function of angle" read " $d\sigma_{if}/d\Omega$ would be a function of angle."
- 1139 In text, above Eq. (II-5) for "and exists into high vacuum" read "and exits into high vacuum."
- 1140 Equation (II-12) should read $F_i = F_{i\infty} + [P(z,i) \exp(\pi q) + N(z,i) \exp(-\pi q)]$

1141 Equation (II-28) should read

$$P(1,\overline{1}) = \frac{s+q}{2qb} [F_{0\infty}(s-q) - bF_{\overline{1}\infty}]$$

Equation (II-29) should read

$$N(1,\overline{1}) = \frac{s-q}{2qb} \left[F_{0\infty}(s+q) - bF_{\overline{1}\infty} \right]$$

Equation (II-31) should read: $dF_0/d_{\pi} = -(dF_1/d_{\pi})$

- $=-F_{0\sigma 01}+F_{1\sigma 10}.$
- 1150 for "antilog 4.030-5" read "antilog (4.030-5)."
- 1155 Bottom line, left. Actually, Table V-6 shows that the largest observed $F_{\bar{1}\infty}$ for hydrogen is at 4 kev in argon gas.
- 1162 Table VI-6; for " σ_{11} " read " $\sigma_{1\bar{1}}$."
- 1164 Center, right, for "from Eqs. (V-1) and (V-2)" read "from equations in Sec. VA-3, page 1156."

[Revs. Modern Phys. **30**, 1 (1958)] J. VAN KRANENDONK AND J. H. VAN VLECK Harvard University, Cambridge, Massachusetts

N Eq. (28), 0.1187 should be replaced by $\frac{1}{2}$ (0.1173).

In the third member of Eq. (32), 15/8 should be replaced by 15/32.

On the top of page 8, 0.96 Nk/2S should be replaced by 0.96 (2NkS).

In Eq. (97), a term -NzJS should be added to the right-hand side.

In Eq. (120), 0.1187 should be replaced by $0.1173/(S_1-S_2)$ and $2JS_1S_2$ should be replaced by $4JS_1S_2$.

Below Eq. (121), $S_1S_2/S(S_1-S_2)$ should appear as twice this quantity, and $(g_1S_1-g_2S_2)\beta$ should appear multiplied by a factor $(\frac{1}{2})$.

Erratum: Dynamics of a Lattice Universe by the Schwarzschild-Cell Method

[Revs. Modern Phys. 29, 432 (1957)] RICHARD W. LINDQUIST AND JOHN A. WHEELER Palmer Physical Laboratory, Princeton, New Jersey

W^E are indebted to Professor G. C. McVittie for pointing out to us that the printed version of Eq. (3) omits a factor.¹ It should read

$$ds^{2} = [a(T)/a_{0}]^{2} \left[\frac{dr^{2}}{1 - r^{2}/a_{0}^{2}} + r^{2}(d\theta^{2} + \sin^{2}\theta d\varphi^{2}) \right] - dT^{2} \qquad (3a)$$

$$=a^{2}(T)[du_{1}^{2}+du_{2}^{2}+du_{3}^{2}+du_{4}^{2}]-dT^{2},$$
(3b)

 $u_1 = \sin\chi \sin\theta \sin\varphi,$ $u_2 = \sin\chi \sin\theta \cos\varphi,$ $u_3 = \sin\chi \cos\theta,$ $u_4 = \cos\chi,$

$$r = a_0 \sin \chi. \tag{6}$$

The subsequent calculations and the conclusions drawn from them about the dynamics of a lattice universe remain unchanged.

¹ R. C. Tolman, *Relativity, Cosmology and Thermodynamics* (Clarendon Press, Oxford, England, 1934), Eqs. (149.5) and (149.10).

 $\times \exp(-\frac{1}{2}\pi \Sigma \sigma_{if}).$

with

and