

Errata

Pressure-Volume Isotherms of He⁴ below 4.2° K, WILLIAM E. KELLER [Phys. Rev. **97**, 1 (1955)]. During the course of calculations performed in attempting to adjust the reported values of $T_{48} - T_{\text{isotherm}}$ (Table II) in accordance with a "smoothed" table of T_{48} vs He⁴ vapor pressure,¹ discrepancies appeared which were considerably larger than expected from the "roughness" of the original table used for T_{48} .² The source of these discrepancies was traced to the manner in which the measured vapor pressures were reduced to obtain the corresponding temperatures. Originally, all vapor pressures were reduced to mm Hg at 0°C; just before publication, the author became aware that T_{48} is given in terms of mm Hg at 20°C, and attempted to correct for this by adding an amount to $(PV/N)_{\text{corr}}$ (Table I) corresponding to the difference in density of the Hg at the two reference temperatures. It is now clear that this correction should not have been added, since the relation between the raw data of each point and the temperature to which it is normalized has not been changed by the change of reference.

As a consequence of this error, the numerical values for $A = RT$, $T_{48} - T_{\text{isotherm}}$, and $(PV/N)_{\text{corr}}$ require revision. For a given isotherm, a constant quantity, q , is to be added to each $(PV/N)_{\text{corr}}$. Table I lists the correction

TABLE I. Corrections for isotherm measurements.

Isotherm	A	B	C	D	E
$A = RT$, cc-mm/mole	246 693	208 154	178 160	144 595	133 872
$T_{48} - T_{\text{isotherm}}$, °K	0.0052	0.0103	0.0052	0.0054	0.0073
q , cc-mm/mole	-249	-187	-125	-125	-62

quantities. No other data, either raw or derived, are affected by these changes; nor was the type of error mentioned here made in the data for the He³ isotherms.³

The author is indebted to J. R. Clement who initiated the recalculations based on the smoothed T_{48} scale and who has pointed out two typographical errors: (1) for point A-11-2, " $P = 116.58$ mm Hg" should read " $P = 166.58$ mm Hg" and (2) for point $\alpha - 3 - 1$ in reference 3, " $(PV/N)_{\text{corr}} = 129\ 979$ " should read " $(PV/N)_{\text{corr}} = 128\ 979$."

¹ Clement, Logan, and Gaffney, Naval Research Laboratory Report NRL-4542, 1955 (unpublished).

² H. van Dijk and D. Shoenberg, Nature **164**, 151 (1949).

³ W. E. Keller, Phys. Rev. **98**, 1571 (1955).

Soluble Problem in the Theory of Coulomb Excitation, L. C. BIEDENHARN AND C. M. CLASS [Phys. Rev. **98**, 691 (1955)]. The sign of the last two terms in Eq. (6) (that is, the two terms involving the cosine of the Coulomb phase shifts) was given incorrectly. The sign of these terms should be *negative*. Figure 2 as presented is therefore also incorrect, and a corrected version of this figure is given below.

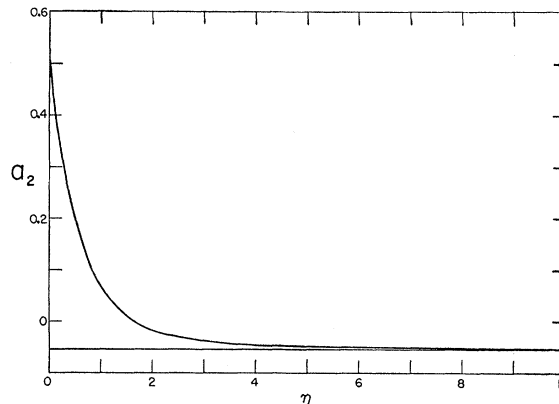


FIG. 2. The particle parameter a_2 versus η for no energy loss. The classical limit (solid line) is -0.05425 . The intercept at $\eta = 0$ is $+0.5002$.

None of the qualitative conclusions of the paper are affected by this change, since the corrected values of the particle parameter a_2 deviate even more markedly from the (corrected) classical limit, as shown in the accompanying figure.

Intermediate Coupling in Odd-Odd Nuclei, R. ADKINS AND J. G. BRENNAN [Phys. Rev. **99**, 706 (1955)]. The last term of Eq. (3) should read " $-\zeta \sum \mathbf{i}_i \cdot \mathbf{s}_i$ " instead of " $-V_0 \zeta \sum \mathbf{i}_i \cdot \mathbf{s}_i$." The factor ζ is an energy constant showing the strength of the spin-orbit coupling, and V_0 does not belong.

Electroluminescence of Zinc Sulfide Single Crystals, D. R. FRANKL [Phys. Rev. **100**, 1105 (1955)]. In Fig. 2 the abscissa scale markers are displaced to the left about two divisions from their correct positions.

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Erratum Pertaining to Abstract M10

M10, by David O. Caldwell and Yash Pal. Line 10 should read "mass. Such mass measurements on a 'negative proton' will be reported."

* The usual preamble to these abstracts and additional errata will be published in the Bulletin early in 1956. Abstracts of meetings in 1956 and subsequent years will not be published in *The Physical Review*.