

ERRATA

Errata: Accelerator Energy Calibrations

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IN several of the tables in this article, reference was made to the preliminary values obtained by the Rice group (Beckner, Bramblett, and Phillips; reference 3). Since the time of publication, new and final values have been obtained [Beckner, Bramblett, Phillips, and Eastwood, Phys. Rev. (to be published)]. As a result of these changes, several minor revisions in the tables and in the values adopted in this article are necessary:

Table IV. $F^{19}(p, \alpha\gamma)O^{16}$ resonance energy data:

The entry listed under reference 3 as $E_R = 872.63 \pm 0.75$ kev should be $E_R = 872.3 \pm 0.5$ kev.

New weighted mean: 872.44 kev

New internal error: 0.24

New external error: 0.32

New adopted value: 872.4 ± 0.4 kev; $\Gamma = 4.5 \pm 0.3$ kev. (The only change in the adopted value is from 872.5 to 872.4 kev.)

Table V. $Al^{27}(p, \gamma)Si^{28}$ resonance energy data:

The entry listed under reference 3 as $E_R = 992.9 \pm 1.0$ kev should be 992.2 ± 0.5 kev.

New weighted mean: 991.99 kev

New internal error: 0.20

New external error: 0.45

No change in the adopted value.

Table VI. $Li^7(p, n)Be^7$ threshold energy data:

The entry listed under reference 3 as $E_{th} = 1880.1 \pm 1.0$ kev should be 1880.5 ± 0.8 kev.

New weighted mean: 1880.74 kev

New internal error: 0.37

New external error: 0.37

No change in the adopted value.

Table VIII. Secondary calibration points;

The entry listed under reference 3 for the $C^{13}(p, n)N^{13}$ reaction as $E_{th} = 3235 \pm 2$ kev should be 3235.3 ± 1.5 kev. The new adopted value then becomes 3235.8 ± 1.1 kev. (The old value was 3235.7 ± 1.2 kev.)

Table IX. Other calibration points:

The value for the threshold energy of the $F^{19}(p, n)Ne^{19}$ reaction, originally listed under reference 3 as 4233 ± 3 kev, should be 4233.2 ± 2 kev.

Table XI. Summary of primary calibration points:

The only change in this table is that for the $F^{19}(p, \alpha\gamma)O^{16}$ resonance energy: from 872.5 ± 0.4 kev to 872.4 ± 0.4 kev.

Table XII. Summary of secondary calibration points:

The value for the $C^{13}(p, n)N^{13}$ threshold energy, listed as 3235.7 ± 1.2 kev should be 3235.8 ± 1.1 kev.

Reference 30 should now read: S. E. Hunt, R. A. Pope, D. V. Freck, and W. W. Evans, Phys. Rev. **120**, 1740 (1960).

Errata: Interaction of Neutrinos and Gravitational Fields

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IN Eq. (8), add factor $\frac{1}{4}$, change subscript l to k , to read

$$\Gamma_k = \frac{1}{4} g_{\mu\alpha} [(\partial b, \beta / \partial \chi^k) a^\alpha_\beta - \Gamma_{\nu k}^\alpha] s^{\mu\nu} + a_k 1.$$

In Eq. (17), add a " ψ " at the end of the equation.

In Eq. (89), in the second term in parentheses, change

$$\delta \Gamma_{\nu\rho}^\sigma \text{ to read } \delta \Gamma_{\nu k}^\sigma.$$

In Eq. (108), replace f by f^2 in the last term of second equation in the triplet, to read

$$-(e^{\frac{1}{2}} k / \rho) df^2 / d\rho^*.$$

Additional references which deal with the subject of this paper but which were not cited in it include: V. A. Fock and D. Ivanenko, Z. Physik **57**, 261 (1929); Compt. rend. **188**, 1470 (1929) (spinors in curved space-time). A Sokolov and D. Ivanenko, *Klassische Feldtheorie*, (Akademische Verlagsgesellschaft, Leipzig, Germany, 1953). Sec. 56, p. 320 ff. (see also Part II, Sec. 5, Moscow, 1952), (graviton-induced transmutations, including the equivalent to Eq. (71)