Erratum

Erratum: Average energy expended per ion pair in liquid argon [Phys. Rev. A <u>9</u>, 1438 (1974)]

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In this experiment, a terminator of 100 Ω (not shown in Fig. 1) was used at the receiving end of the test pulser in the charge-sensitive preamplifier. Then the terminator side of the capacitor $C_{\rm in}$ can be regarded as grounded because of the small impedance of the terminator. Thus, Eq. (1) should be written as

$$V_{l} = \frac{eE_{c}}{W_{l}} \cdot \frac{A}{C_{in} + C_{s} + C_{l} + (1 + A)C_{f}} G.$$
(1')

Also, Eq. (2) should be written in the following precise form:

$$V_{tl} = C_{in} V_t \frac{A}{C_{in} + C_s + C_l + (1 + A)C_f} G.$$
 (2')

Accordingly, from Eqs. (1') and (2'), Eq. (3) is written as

$$W_{l} = eE_{c} \frac{V_{tl}}{V_{l}} \frac{1}{C_{in}V_{t}}$$
(3')

Then W_i can be written as in Eq. (5) without any discussion of the accuracy limit concerning Eq. (4). As a result, W_i determined for the liquid argon should be 23.6 ± 0.3 eV, not $23.6^{+0.5}_{-0.3}$ eV.