

Errata to “Energy Levels of Light Nuclei, $A = 5-7$ ” (Nuclear Physics A708 (2002) 3)

I. Under ${}^5\text{Li}$:

1. reaction 6: “See also ${}^6\text{Li}$ in (88AJ01).” should read as See also ${}^6\text{Li}$.
2. reaction 7: “See also ${}^6\text{Be}$ in (88AJ01).” should read as See also ${}^6\text{Be}$.
3. reaction 9, first paragraph: ...“out at many energies: see (66LA04, 79AJ01, 79AJ01, 84AJ01)...” should read as ...out at many energies: see (66LA04, 74AJ01, 79AJ01, 84AJ01)...
4. reaction 10, second paragraph: “For reactions (b), (c) and (d) see (79AJ01, 79AJ01, 84AJ01)”, should read as For reactions (b), (c) and (d) see (74AJ01, 79AJ01, 84AJ01).
5. reaction 12: “...see (79AJ01, 84AJ01), ${}^6\text{Li}$ in (88AJ01) and...” should read as ...see (79AJ01, 84AJ01), ${}^6\text{Li}$ and...
6. reaction 19: “See also ${}^8\text{Be}$.” should read as See also ${}^8\text{Be}$ in (88AJ01).

II. Under ${}^5\text{He}$:

1. reaction 5: “See also ${}^6\text{He}$ in (88AJ01) and (86BA73).” should read as See also ${}^6\text{He}$ and (86BA73).
2. reaction 7: “See also ${}^6\text{Li}$ in (88AJ01).” should read as See also ${}^6\text{Li}$.
3. reaction 13: “See also ${}^6\text{Li}$ in (88AJ01), and see the recent triple...” should read as See also ${}^6\text{Li}$, and see the recent triple...
4. reaction 20: “See also ${}^7\text{Li}$ in (88AJ01).” should read as See also ${}^7\text{Li}$.
5. reaction 22: “...see (79AJ01) and ${}^8\text{Li}$.” should read as ...see (79AJ01) and ${}^8\text{Li}$ in (88AJ01).
6. reaction 24, first paragraph: “See also (87WA21) and ${}^8\text{Be}$.” should read as See also (87WA21) and ${}^8\text{Be}$ in (88AJ01).
7. reaction 33: “See ${}^6\text{Li}$ in (88AJ01).” should read as See ${}^6\text{Li}$.

III: Under ${}^6\text{He}$:

1. reaction 24: “For reaction (b) see ${}^8\text{Be}$.” should read as For reaction (b) see ${}^8\text{Be}$ in (88AJ01).
2. reaction 26: “See also ${}^{10}\text{Be}$ and (83SH1J).” should read as See also ${}^{10}\text{Be}$ in (88AJ01) and (83SH1J).
3. reaction 27: “See also ${}^9\text{Be}$.” should read as See also ${}^9\text{Be}$ in (88AJ01).
4. reaction 28: “See ${}^9\text{B}$.” should read as See ${}^9\text{B}$ in (88AJ01).
5. reaction 30: “See ${}^9\text{Be}$ and ${}^{12}\text{C}$.” should read as See ${}^9\text{Be}$ in (88AJ01) and ${}^{12}\text{C}$ in (90AJ01).

IV. Under ${}^6\text{Li}$:

1. Changes to Table 6.4 should be as follows (changes are in blue):

Table 6.4: Energy levels of ${}^6\text{Li}$

| E_x (MeV \pm keV) ^a | $J^\pi; T$ | Γ_{cm} (MeV) ^a | Decay | Reactions |
|---------------------------------------|-------------------------|---|----------------------------------|---|
| g.s. | $1^+; 0$ | | stable | 3, 4, 5, 6, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 57, 59, 60, 61, 64, 67 |
| 2.186 ± 2 | $3^+; 0$ | 0.024 ± 0.002 | γ, d, α | 3, 4, 5, 8, 9, 10, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27, 29, 30, 33, 34, 36, 37, 38, 39, 42, 44, 45, 46, 47, 48, 49, 55, 57 |
| 3.56288 ± 0.10 | $0^+; 1$ | $(8.2 \pm 0.2) \times 10^{-6}$ | γ | 3, 5, 12, 15, 17, 18, 20, 21, 22, 23, 25, 34, 37, 38, 39, 42, 44, 67 |
| 4.312 ± 22 ^b | $2^+; 0$ | 1.30 ± 0.10 ^b | γ, d, α | 3, 8, 17, 18, 20, 21, 29, 37, 39, 42, 55 |
| 5.366 ± 15 | $2^+; 1$ | 0.541 ± 0.020 ^b | γ, n, p, α | 3, 17, 20, 37, 38, 39 |
| 5.65 ± 50 | $1^+; 0$ | 1.5 ± 0.2 | d, α | 8, 20, 39, 42 |
| 17.985 ± 25 ^{b,c,e} | $2^-; 1$ ^b | 3.012 ± 0.007 ^b | $\gamma, t, {}^3\text{He}$ | 3 |
| 24.779 ± 54 ^{b,c,f} | $3^-; 1$ ^b | 6.754 ± 0.110 ^b | $\gamma, n, t, {}^3\text{He}$ | 3, 8 |
| 24.890 ± 55 ^{b,c} | $4^-; 1$ ^b | 5.316 ± 0.112 ^b | $\gamma, n, t, {}^3\text{He}$ | 3 |
| 26.590 ± 65 ^{b,c,g} d | $2^-; 1$ ^{b,g} | 8.684 ± 0.125 ^{b,g} | $\gamma, n, d, t, {}^3\text{He}$ | 3, 8 |

^a See also Table 6.12.

^b Newly adopted in this evaluation or revised from the previous evaluation (88AJ01).

^c See remarks under reaction 3, and see Table 6.5.

^d For possible states at high E_x see reactions 8, 37, 39 and 45 and Table 6.9.

^e $E_x = 17.985 \pm 25$ was previously reported in (88AJ01) as $E_x = 21.0$ MeV.

^f $E_x = 24.779 \pm 54$ MeV was previously reported as $E_x = 26.6 \pm 0.4$ MeV with $T = 0$ in (88AJ01). See (90MO10).

^g (90MO10).

2. reaction 23: “See also ${}^5\text{Li}$ (84AR17, 87ZA07) and ${}^9\text{B}$.” should read as See also ${}^5\text{Li}$, (84AR17, 87ZA07) and ${}^9\text{B}$ in (88AJ01).
3. reaction 24, first paragraph: “See also ${}^{10}\text{B}$.” should read as See also ${}^{10}\text{B}$ in (88AJ01).
4. reaction 27: “See also ${}^9\text{Be}$.” should read as See also ${}^9\text{Be}$ in (88AJ01).
5. reaction 39: “See also ${}^{10}\text{B}$ and (83KU17, 88BO1J).” should read as See also ${}^{10}\text{B}$ in (88AJ01) and (83KU17, 88BO1J).
6. reaction 42: “See also ${}^{10}\text{B}$ and (85MA1F, 86AN26, 86KA26).” should read as See also ${}^{10}\text{B}$ in (88AJ01) and (85MA1F, 86AN26, 86KA26).
7. reaction 54: “See also (89GL1D) and see ${}^9\text{B}$.” should read as See also (89GL1D) and see ${}^9\text{B}$ in (88AJ01).
8. reaction 55: “See also ${}^{10}\text{B}$ and (87GA20).” should read as See also ${}^{10}\text{B}$ in (88AJ01) and (87GA20).

V. Under ${}^6\text{Be}$:

1. reaction 1, fourth paragraph: “...at $E_x \approx 23.4$ (4^-), 26.2 (2^-) and 26.7 MeV (3^-),...” should read as ...at $E_x \approx 23.4$, 26.2 and 26.7 MeV [$J^\pi = 4^-, 2^-$ and 3^- , respectively],...
2. reaction 4: “See also (84AJ01), (87DA1N; theor.) and ${}^9\text{B}$...” should read as See also (84AJ01), (87DA1N; theor.) and ${}^9\text{B}$ in (88AJ01)...

in Table 6.15, Isospin triplet components ($T = 1$) in $A = 6$ nuclei: the J^π for $E_x = 1.67$ should be changed to $(2)^+$.

VI. Under ${}^7\text{He}$:

1. reaction 5, first paragraph, last sentence: “At $E({}^{15}\text{N}) = 2.40$ MeV, reaction (h) shows evidence...”, change 2.40 MeV to 240 MeV.

VII. Under ${}^7\text{Li}$:

1. Table 7.6: under Branching ratio to ${}^7\text{Li}^*(0.48)$, change (83KU10) to (83KN10).
2. reaction 6: “See also ${}^8\text{Be}$ and (86KA26).” should read as See also ${}^8\text{Be}$ in (88AJ01) and (86KA26).
3. reaction 12: “See also ${}^8\text{Be}$ and (88KO1C).” should read as See also ${}^8\text{Be}$ in (88AJ01) and (88KO1C).
4. reaction 19: “See also ${}^8\text{Li}$, references cited in (88AJ01)...” should read as See also ${}^8\text{Li}$ and references cited in (88AJ01)...
5. reaction 20:, last paragraph: “See also ${}^8\text{Be}$, and references to earlier work...” should read as See also ${}^8\text{Be}$ in (88AJ01), and references to earlier work...
6. reaction 21: “See also ${}^9\text{Be}$ and (87GOZF) for a breakup study.” should read as See also ${}^9\text{Be}$ in (88AJ01) and (87GOZF) for a breakup study.

VIII. Under ${}^7\text{Be}$:

1. reaction 9, first paragraph: “See also ^8Be and (88KO1C).” should read as See also ^8Be in (88AJ01) and (88KO1C).
2. reaction 28: “...and see discussion of $^{12}\text{C}(^3\text{He}, ^7\text{Be})^8\text{Be}$ under ^8Be ...” should read as ...and see discussion of $^{12}\text{C}(^3\text{He}, ^7\text{Be})^8\text{Be}$ [reaction 44] under ^8Be in (88AJ01)...