

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

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

1. reaction 4, 2nd paragraph: “(see Table 5.6 in (79AJ01) and (79AJ01)).” should read as see Table 5.6 in (74AJ01) and (79AJ01)). (Added on 10/15/2014)
2. reaction 6: “See also  ${}^6\text{Li}$  in (88AJ01).” should read as See also  ${}^6\text{Li}$ .
3. reaction 7: “See also  ${}^6\text{Be}$  in (88AJ01).” should read as See also  ${}^6\text{Be}$ .
4. 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)...
5. 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).
6. reaction 12: “...see (79AJ01, 84AJ01),  ${}^6\text{Li}$  in (88AJ01) and...” should read as ...see (79AJ01, 84AJ01),  ${}^6\text{Li}$  and...
7. 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) <sup>a</sup>	$J^\pi; T$	$\Gamma_{\text{cm}}$ (MeV) <sup>a</sup>	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
$2.186 \pm 2$	$3^+; 0$	$0.024 \pm 0.002$	$\gamma, d, \alpha$	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
$3.56288 \pm 0.10$	$0^+; 1$	$(8.2 \pm 0.2) \times 10^{-6}$	$\gamma$	3, 5, 12, 15, 17, 18, 20, 21, 22, 23, 25, 34, 37, 38, 39, 42, 44, 67
$4.312 \pm 22$ <sup>b</sup>	$2^+; 0$	$1.30 \pm 0.10$ <sup>b</sup>	$\gamma, d, \alpha$	3, 8, 17, 18, 20, 21, 29, 37, 39, 42, 55
$5.366 \pm 15$	$2^+; 1$	$0.541 \pm 0.020$ <sup>b</sup>	$\gamma, n, p, \alpha$	3, 17, 20, 37, 38, 39
$5.65 \pm 50$	$1^+; 0$	$1.5 \pm 0.2$	$d, \alpha$	8, 20, 39, 42
$17.985 \pm 25$ <sup>b,c,e</sup>	$2^-; 1$ <sup>b</sup>	$3.012 \pm 0.007$ <sup>b</sup>	$\gamma, t, {}^3\text{He}$	3
$24.779 \pm 54$ <sup>b,c,f</sup>	$3^-; 1$ <sup>b</sup>	$6.754 \pm 0.110$ <sup>b</sup>	$\gamma, n, t, {}^3\text{He}$	3, 8
$24.890 \pm 55$ <sup>b,c</sup>	$4^-; 1$ <sup>b</sup>	$5.316 \pm 0.112$ <sup>b</sup>	$\gamma, n, t, {}^3\text{He}$	3
$26.590 \pm 65$ <sup>b,c,g</sup> d	$2^-; 1$ <sup>b,g</sup>	$8.684 \pm 0.125$ <sup>b,g</sup>	$\gamma, n, d, t, {}^3\text{He}$	3, 8

<sup>a</sup> See also Table 6.12.<sup>b</sup> Newly adopted in this evaluation or revised from the previous evaluation (88AJ01).<sup>c</sup> See remarks under reaction 3, and see Table 6.5.<sup>d</sup> For possible states at high  $E_x$  see reactions 8, 37, 39 and 45 and Table 6.9.<sup>e</sup>  $E_x = 17.985 \pm 25$  was previously reported in (88AJ01) as  $E_x = 21.0$  MeV.<sup>f</sup>  $E_x = 24.779 \pm 54$  MeV was previously reported as  $E_x = 26.6 \pm 0.4$  MeV with  $T = 0$  in (88AJ01). See (90MO10).<sup>g</sup> (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 24, third paragraph: delete 98RU1C (Erratum to 97RU06 and already included in 97RU06).  
(Added on 10/05/2017)
5. reaction 27: “See also  ${}^9\text{Be}$ .” should read as See also  ${}^9\text{Be}$  in (88AJ01).
6. reaction 39: “See also  ${}^{10}\text{B}$  and (83KU17, 88BO1J).” should read as See also  ${}^{10}\text{B}$  in (88AJ01) and (83KU17, 88BO1J).
7. 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).
8. reaction 54: “See also (89GL1D) and see  ${}^9\text{B}$ .” should read as See also (89GL1D) and see  ${}^9\text{B}$  in (88AJ01).
9. 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  $J^\pi$  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  $^8\text{Be}$  and (88KO1C).” should read as See also  $^8\text{Be}$  in (88AJ01) and (88KO1C).
2. reaction 28: “...and see discussion of  $^{12}\text{C}(^3\text{He}, ^7\text{Be})^8\text{Be}$  under  $^8\text{Be}$ ...” should read as ...and see discussion of  $^{12}\text{C}(^3\text{He}, ^7\text{Be})^8\text{Be}$  [reaction 44] under  $^8\text{Be}$  in (88AJ01)...