

# Bulk and neutron-proton asymmetry coefficients of the semi-empirical mass formula tuned to ground state mass excess of AME2020 and/or FRDM(2012)

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## Abstract

Davidson *et al.* has extended Seeger's mass formula to non-zero excitation energies by introducing temperature-dependent coefficients in the liquid drop energy part of the semi-empirical mass formula, without considering the shell effects. The semi-empirical mass formula of Davidson *et al.* is applicable for the compound nucleus temperatures less than or equal to 4 MeV. The mass excess calculated using this mass formula including shell effects/corrections does not reproduce the ground state mass excesses of the new atomic mass evaluation data AME2020 and/or FRDM(2012) with its coefficients at zero temperature. So, the coefficients of the semi-empirical mass formula are needed to be tuned to reproduce the ground state mass excess of the nuclei in the recent atomic mass evaluation data AME2020 and/or FRDM(2012). The bulk and neutron-proton asymmetry coefficients of the semi-empirical mass formula of Davidson *et al.* with shell effects have been tuned to reproduce the mass excess data for all the nuclei of AME2020 ( $Z=1-118$  and  $A=1-295$ ) and the nuclei of FRDM(2012) ( $Z=8-136$  and  $A=16-339$ , except 3456 nuclei which are also available in the AME2020 data) at zero temperature, i.e., the coefficients are tuned for 9420 nuclei known at present. The tuned bulk and neutron-proton asymmetry coefficients reproduce the mass excess of the new atomic mass evaluation data AME2020 and/or FRDM(2012) within a difference of less than 1 MeV and can be used for the applications/investigations in the areas of physics where high energies are experienced or nuclei involved are in excited states, e.g., fusion-evaporation and fusion-fission processes in heavy-ion reactions.

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## 1. Introduction

Recently, new mass excess data is available for 3558 nuclei in the new atomic mass evaluation AME2020 [1] with nuclei of atomic and mass numbers ranging from Z=1-118 and A=1-295, respectively. It contains the mass excess data for 122 new nuclei that appeared in the atomic mass evaluation data AME2020 in addition to the revised mass excess data for 3436 nuclei of AME2016 [2] and hence superseded the mass excess data of AME2016. In addition to the newly measured ground state mass excess data of AME2020, there is a new theoretical ground state mass excess data available for 9318 nuclei in FRDM(2012) [3] with nuclei of atomic and mass numbers ranging from Z=8-136 and A=16-339, respectively. The FRDM(2012) contains the mass excess data of 339 new nuclei and revised mass excess data for 8979 nuclei of its previous generation FRDM(1992) mass table in Möller *et al.* (1995) [4]. The available data can be used to study the area of physics where the nuclei involved are in their ground state, like cluster radioactivity, spontaneous fission, etc. In the areas of physics like heavy-ion reactions and astrophysics etc., the nuclei happen to be in their excited states and hence there is a need for mass excesses at higher energies or excitation energies. In this direction, Davidson *et al.* [5] has extended Seeger's mass formula [6] by introducing the temperature-dependent coefficients to the liquid drop energy, excluding the shell corrections. The shell corrections have been introduced by Myers and Swiatecki [7] and extended for the finite nuclear excitation energy by Jensen *et al.* [8]. The mass excess at temperature T is expressed as  $\Delta M(A, Z, T) = M(Z, A, T) - A = ZM_H + NM_n - B(A, Z, T) - A$ , where the binding energies  $B(A, Z, T)$  are expressed as the sum of temperature-dependent terms (i) liquid drop energies  $V_{LDM}(T)$  of Davidson *et al.* [5] and (ii) shell corrections  $\delta U(T)$ , within the use of Strutinsky renormalization procedure [9]. But, this formula neither reproduces the recent ground state mass excess data of AME2020 nor of FRDM(2012), see Fig. (2) below. So, there is a need to adjust some of the coefficients of the semi-empirical mass formula of Davidson *et al.* of Eq. (4) at T=0 to reproduce the ground state mass excess data of AME2020 and/or FRDM(2012). Gupta *et. al.* [10] found that the measured ground state mass

excess data can be fitted within 1–1.5 MeV by changing the bulk  $\alpha(0)$  and the neutron-proton asymmetry  $a_a$  coefficients of the semi-empirical mass formula of Davidson *et al.* at T=0 MeV, where the neutron-proton asymmetry coefficient  $a_a$  controls the curvature of the measured mass excess parabola and the bulk coefficient  $\alpha(0)$  acts as a scaling factor. First, these authors reproduced the ground state mass excess data of Audi and Wapstra AME1995 [11] by adjusting these coefficients up to  $Z = 28$  [10] and used the mass excess data to study the decay of hot  $^{56}\text{Ni}^*$  formed in the  $^{32}\text{S} + ^{24}\text{Mg}$  reaction [10, 12]. Later they extended the fitting of these coefficients up to  $Z=56$  and used them to study the emission of intermediate mass fragments from hot  $^{116}\text{Ba}^*$  formed in low-energy  $^{58}\text{Ni} + ^{58}\text{Ni}$  reaction, see ref. [13]. The adjustment of these coefficients has been extended further by [14] up to  $Z=97$  to reproduce the experimental mass excess of AME2003 [15] and/or theoretical mass excess data of FRDM(1992) mass table in Möller *et al.* (1995), within a difference of less than 1.5 MeV between the calculated ground state mass excess and the mass excess of AME2003 and/or FRDM(1992), and used for the decay study of hot compound nucleus  $^{246}\text{Bk}^*$  at different excitation energies. The adjustment of these coefficients is then extended to  $Z=118$  by [16]. Due to the addition of mass excess data for 257 new nuclei in AME2016 and 339 new nuclei FRDM(2012) with respect to the AME2003 and FRDM(1992), respectively, the coefficients are adjusted by [17] for these new nuclei and used for the investigation of the cold valley paths for the synthesis of isotopes of Ubh in optimum orientations [18]. It may be noted that a lot of work has been done using the dynamical cluster-decay model developed for the study of the decay of hot compound nuclei where the mass excess data of nuclei in excited states is used. With the availability of new mass excess data in AME2020 and FRDM(2012) the tuning of the bulk and neutron-proton asymmetry coefficients is needed again to reproduce the latest ground state mass excess data.

In this work, the bulk and neutron-proton asymmetry coefficients have been adjusted to reproduce the mass excess data for 122 new nuclei that appeared in AME2020 and readjusted the coefficients for the rest of the nuclei available in AME2020 and/or FRDM(2012) within a difference of less than 1 MeV. In total, we have obtained the bulk and neutron-proton asymmetry coefficients for all known 9420 nuclei (as listed in Table. A) up to  $Z=136$ , where 3558 nuclei are the nuclei available in AME2020 of  $Z=1\text{--}118$  and 5862 nuclei of FRDM(2012) of  $Z=8\text{--}136$ , but other than the nuclei available in AME2020. Using the new bulk and neutron-proton asymmetry coefficients listed in Table A in the mass excess formula of Eq. (4) one can calculate the mass excess for the nuclei at higher energies. It may be noted that some of the experimental generations of atomic mass evaluation are AME2003 (3179 nuclei), AME2012 (=AME2003+174 new nuclei) [19], AME2016 (=AME2012+83 new nuclei) and AME2020 (=AME2016+122 new nuclei) and that of the theoretical one are FRDM(1992) (5523 nuclei) and FRDM(2012) (=FRDM(1992)+339 new nuclei).

The paper is organized as follows: Section 2 describes the mass excess formulae for the ground and excited states of nuclei, and the calculation detail of shell corrections. Section 3 contains the calculations and discussion of the results and Section 4 is the list of the present tuned bulk and neutron-proton asymmetry coefficients and the calculated mass excess compared with the mass excesses of AME2020 and/or FRDM(2012) data.

## 2. Mass excess for nuclei in ground and excited states

The standard form of the mass excess formula of P. A. Seeger [6] for an atom of Z proton and N neutron is

$$\begin{aligned}\Delta M(Z, A) = M(Z, A) - A &= M_n N + M_H Z - A - \alpha A + \left( \beta - \frac{\eta}{A^{1/3}} \right) \left( \frac{I^2 + 2|I|}{A} \right) + \gamma A^{2/3} \\ &+ \frac{3}{5} \frac{e^2}{R_0} \frac{Z^2}{A^{1/3}} \left( 1 - \frac{0.7636}{Z^{2/3}} - \frac{2.29}{R_0^2 A^{2/3}} \right) + a \delta_a\end{aligned}\quad (1)$$

where the mass excesses for neutron and hydrogen atom is  $M_n - 1 (= 8.3674 \text{ MeV}/c^2)$  and  $M_H - 1 (= 7.5848 \text{ MeV}/c^2)$ , respectively, with  $A (= N + Z)$  the mass number of a nucleus,  $I (= N - Z)$  is the neutron-proton asymmetry and the free coefficients  $\alpha$ ,  $\beta$ ,  $\eta$ , and  $\gamma$  respectively are 16.11, 20.65, 48.00, and 20.21  $\text{MeV}/c^2$ . The  $R_0$  is 1.07 fm,  $\delta_a$  is the pairing term and the coefficient of the pairing term  $a$  is 1/2, 0, -1/2 for odd atoms, odd mass atoms, and even atoms, respectively. The mass excess formula, Eq. (1), is extended by Davidson *et. al.* for hot nuclei by introducing the temperature-dependent coefficients  $\alpha(T) [= \alpha(0) + \frac{1}{15}T^2]$ ,  $\beta(T)$ ,  $\eta(T)$ ,  $\gamma(T)$  and  $\delta(T)$  [5] and nuclear radius  $R(T) = R_0(1 + 0.01T)$  [20] in liquid drop energy as

$$\begin{aligned}V_{LDM}(Z, A, T) &= \alpha(T) A + \left( \beta(T) - \frac{\eta(T)}{A^{1/3}} \right) \left( \frac{4t_\zeta^2 + 4|t_\zeta|}{A} \right) + \gamma(T) A^{2/3} \\ &+ \frac{Z^2}{R(T)A^{1/3}} \left( 1 - \frac{0.7636}{Z^{2/3}} - \frac{2.29}{[R(T)A^{1/3}]^2} \right) + \delta(T) \frac{f(Z, A)}{A^{3/4}}\end{aligned}\quad (2)$$

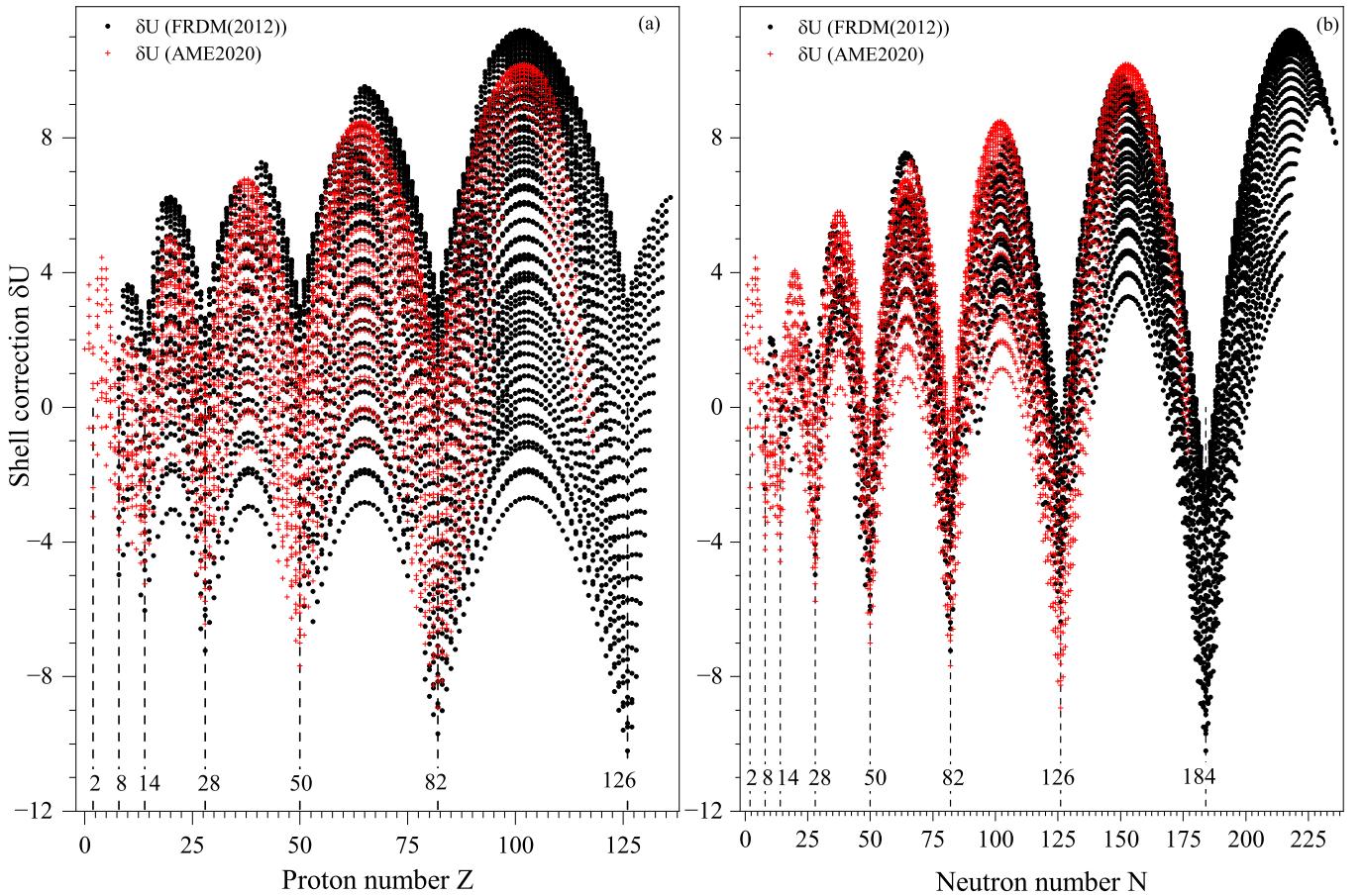
where,  $t_\zeta = a_a(Z - N)$  with the neutron-proton asymmetry coefficient  $a_a = 1/2$  and the function  $f(Z, A)$  in pairing term is  $f(Z, A) = (-1, 0, 1)$ , respectively for even-even, odd-even and odd-odd nuclei. At  $T=0$  the coefficients  $\alpha$ ,  $\beta$ ,  $\eta$ , and  $\gamma$  are the same as given in Seeger's mass formula and the pairing term coefficient  $\delta$  is 33.0 MeV [21], here  $\alpha(0) = -16.11 \text{ MeV}/c^2$ . For microscopic effects in liquid drop energy, the shell correction to the mass excess in the ground state ( $T=0$ ) of a nucleus with the mass number  $A$ , neutron number  $N$  and proton number  $Z$  is of Myers and Swiatecki [7], given as

$$\delta U = C \left[ \frac{F(N) + F(Z)}{(A/2)^{\frac{2}{3}}} - c A^{\frac{1}{3}} \right]; \quad F(X) = \frac{3}{5} \left( \frac{M_i^{5/3} - M_{i-1}^{5/3}}{M_i - M_{i-1}} \right) (X - M_{i-1}) - \frac{3}{5} \left( X^{5/3} - M_{i-1}^{5/3} \right)\quad (3)$$

with  $X = N$  or  $Z$ ,  $M_{i-1} < X < M_i$  with  $M_{i-1}$  and  $M_i$  are the lower and upper limits of magic numbers for a set of nuclei of magic numbers 2, 8, 14 [22] or 20, 28, 50, 82, 126 are both for proton and neutron while 184 and 258 [23] are for neutron only with  $c = 0.26$  and  $C = 5.8 \text{ MeV}$ . The temperature-dependence in the shell corrections can be included using  $\delta U(T) = \delta U \exp(-T^2/T_0)$  with  $T_0=1.5 \text{ MeV}$  [8]. The temperature  $T$  of the compound nucleus of mass  $A$  can be obtained from the relation  $E_{CN}^* = aT^2 - T$ , where  $a$  is the level density parameter which is related to the mass of the compound nucleus of mass  $A$  as  $a = A/9$  (for the heavy mass region) and  $A/10$  (for the superheavy mass region), etc., and  $E_{CN}^* = E_{cm} + Q_{in}$  is the compound nucleus excitation energy. Using Eq. (2) for temperature-dependent liquid drop energy  $V_{LDM}(T)$  and shell correction  $\delta U(T)$ , the temperature-dependent mass excess formula becomes

$$\begin{aligned}\Delta M(Z, A, T) &= M_n N + M_H Z - A + \alpha(T) A + \left( \beta(T) - \frac{\eta(T)}{A^{1/3}} \right) \left( \frac{4t_\zeta^2 + 4|t_\zeta|}{A} \right) + \gamma(T) A^{2/3} \\ &+ \frac{Z^2}{R(T)A^{1/3}} \left( 1 - \frac{0.7636}{Z^{2/3}} - \frac{2.29}{[R(T)A^{1/3}]^2} \right) + \delta(T) \frac{f(Z, A)}{A^{3/4}} + \delta U(T)\end{aligned}\quad (4)$$

The bulk  $\alpha(0)$  and neutron-proton asymmetry coefficients  $a_a$  of  $t_\zeta [= a_a(Z - N)]$  of Eq. (4) are adjusted to reproduce the mass excess data of AME2020 and/or theoretical FRDM(2012).

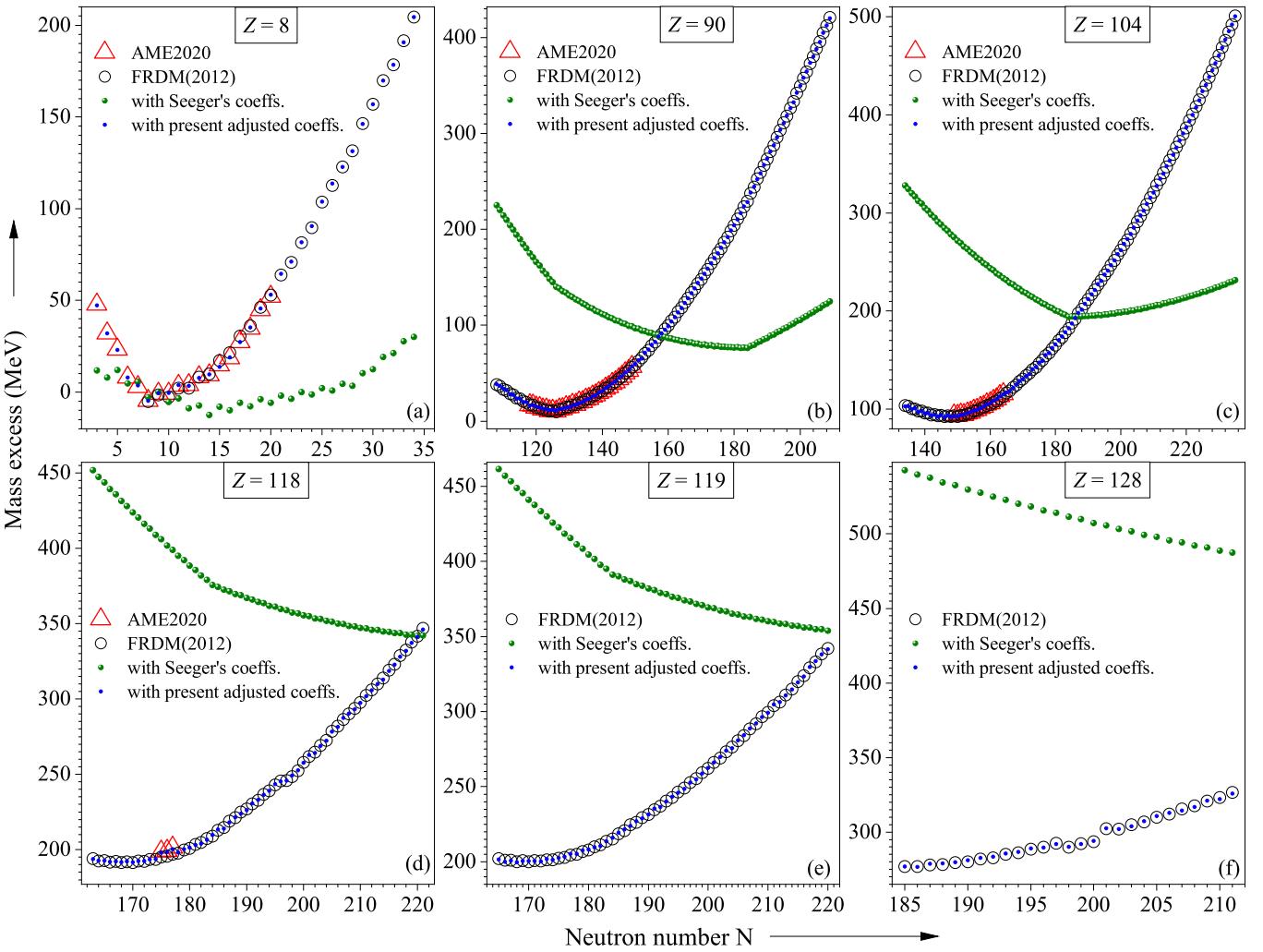


**Fig. 1:** The shell corrections calculated using Eq. (3) for all the nuclei of AME2020 [1] and/or theoretical FRDM(2012) [3], i.e., for all the nuclei listed in Table A, as a function of (a) proton number  $Z$  and (b) neutron number  $N$ .

### 3. Calculations and discussion of results

Fig. (1) shows the calculated shell corrections for the 9420 nuclei of AME2020 and/or FRDM(2012) data as a function of (a) the proton number  $Z$  and (b) the neutron number  $N$ , respectively. The  $+$  symbol (red) is for the shell corrections of the nuclei of AME2020 data while the black solid circle  $\bullet$  symbol is for the nuclei of FRDM(2012), which are not available in AME2020 data. The vertical dotted lines show the position of the various magic numbers with respect to which the shell corrections have been calculated using Eq. (3).

Fig. 2 shows that the calculated mass excess using the mass excess formula of Eq. (4) at  $T=0$  MeV with Seeger's coefficients, shown by scattered green solid sphere  $\bullet$  symbols, neither reproduce the ground state mass excess of AME2020 nor of the FRDM(2012), shown for the isotopes of  $Z = 8, 90, 104, 118, 119$  and  $128$  (arbitrarily chosen  $Z$  of light, heavy and superheavy mass regions). As stated in the introduction, the measured ground state mass excess data can be fitted within 1–1.5 MeV by changing the bulk  $\alpha(0)$  and the neutron-proton asymmetry  $a_a$  coefficients of the semi-empirical mass formula of Davidson *et. al.* at  $T=0$  MeV. This justifies the need of adjusting the bulk and neutron-proton asymmetry coefficients of the liquid drop energy of Davidson's *et. al.* at  $T=0$  MeV in the mass excess formula of Eq. (4). The bulk and neutron-proton asymmetry coefficients of Eq. (4) at  $T=0$  are adjusted to reproduce the mass excess



**Fig. 2:** The ground state mass excess for the isotopes of atomic number (a) 8, (b) 90, (c) 104, (d) 118 (e) 119 and (f) 128 of (i) AME2020 [1] (ii) FRDM(2012) [3] (iii) and the calculated ground state mass excess of Eq. (4) with (a) the coefficients of Seeger's mass formula (b) with present adjusted bulk and neutron-proton asymmetry coefficients of Eq. (4), as a function of neutron number  $N$ .

data of AME2020 and/or FRDM(2012) within a deviation of less than 1 MeV. So, Eq. (4) can be used to obtain the T-dependent mass excess for studying the decay/formation of hot compound nuclei, where according to the quantum mechanical fragmentation theory [24–26] the fragmentation potential for a hot compound nucleus is expressed in terms of the temperature-dependent quantities like binding energies or mass excess, the proximity potential, the Coulomb potential and the centrifugal potentials of the fragments, see ref. [12] for detail. The present adjusted bulk and neutron-proton asymmetry coefficients reproduce the mass excess values of AME2020 and FRDM(2012) data within a difference of less than 1 MeV as shown in Fig. 2 with symbol  $\bullet$  (blue) for the isotopes of atomic number (a) 8, (b) 90, (c) 104, (d) 118 (e) 119 and (f) 128. Here, the symbol  $\Delta$  is for the mass excess of AME2020 and the symbol  $\circ$  is for the FRDM(2012) mass excess. The mass excess calculated for the nuclei of AME2020 and/or FRDM(2012) is listed in Table A below along with the adjusted bulk and neutron-proton asymmetry coefficients of the Eq. (4) and comparison with the mass excess of AME2020 and/or FRDM(2012).

#### 4. The bulk and neutron-proton asymmetry coefficients and mass excesses

**Table A**

List of adjusted bulk  $\alpha(0)$  and neutron-proton asymmetry  $a_a$  coefficients and our calculated mass excess (Cal.) with the help of these adjusted coefficients compared with the experimental and theoretical mass excess of the nuclei of AME2020 [1] (Ex.) and/or FRDM(2012) [3] (Th., shown in **bold text**)

Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)									
Z	N	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	Z	N	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	Z	N	$\alpha(0)$	$a_a$	Cal.	Ex./Th.
<b>1</b>	2	-15.850	0.100	14.981	14.950	<b>2</b>	1	-15.600	0.070	14.863	14.931	<b>3</b>	0	-9.730	0.100	28.673	28.670
	3	-17.100	0.120	25.218	24.620		2	-16.110	0.100	2.497	2.425		1	-16.670	0.100	25.403	25.320
	4	-13.370	0.100	32.895	32.890		3	-16.900	0.300	11.414	11.231		2	-17.000	0.100	11.904	11.680
	5	-13.570	0.120	41.848	41.880		4	-14.230	0.300	17.519	17.592		3	-18.430	0.990	14.042	14.087
	6	-11.490	0.100	49.078	49.140		5	-14.230	0.300	26.475	26.073		4	-16.670	0.100	15.335	14.907
							6	-13.120	0.100	31.588	31.610		5	-16.670	0.100	20.277	20.946
							7	-12.870	0.100	40.859	40.940		6	-13.700	0.980	25.011	24.955
							8	-11.370	0.200	48.563	49.200		7	-14.370	0.400	33.114	33.053
											8	-13.160	0.100	40.829	40.728		
											9	-13.100	0.100	48.901	49.010		
											10	-12.180	0.100	57.239	56.980		
<b>4</b>	1	-12.370	0.010	38.039	37.140	<b>5</b>	1	-12.500	0.100	47.621	47.320	<b>6</b>	2	-12.950	0.010	35.175	35.064
	2	-14.450	0.100	18.332	18.375		2	-14.530	0.100	27.783	27.677		3	-14.810	0.100	29.012	28.911
	3	-16.120	0.800	15.824	15.769		3	-16.430	0.100	22.865	22.922		4	-15.650	0.100	15.613	15.699
	4	-17.050	0.980	4.865	4.942		4	-16.650	0.600	12.496	12.417		5	-16.530	0.100	10.533	10.649
	5	-16.700	0.600	11.408	11.348		5	-17.160	0.100	12.026	12.051		6	-16.720	0.100	0.004	0.000
	6	-15.500	0.800	12.691	12.607		6	-16.570	0.600	8.588	8.668		7	-16.530	0.100	3.516	3.125
	7	-15.230	0.500	20.206	20.177		7	-16.300	0.100	13.348	13.369		8	-15.920	0.100	3.048	3.020
	8	-14.240	0.100	25.050	25.078		8	-15.330	0.100	16.649	16.562		9	-15.650	0.100	10.450	9.873
	9	-14.040	0.100	33.627	33.659		9	-15.120	0.100	23.701	23.664		10	-15.090	0.100	13.688	13.694
	10	-13.280	0.010	39.840	39.950		10	-14.400	0.100	29.008	28.957		11	-14.810	0.100	20.969	21.032
	11	-12.960	0.100	49.845	49.830		11	-14.100	0.100	37.128	37.112		12	-15.040	0.800	25.184	24.920
	12	-12.230	0.100	57.644	57.450		12	-13.410	0.100	43.718	43.720		13	-15.040	0.800	32.585	32.410
							13	-13.100	0.100	52.306	51.790		14	-14.830	0.800	37.644	37.500
							14	-12.920	0.400	59.421	59.770		15	-14.990	0.800	46.261	45.640
							15	-12.850	0.400	68.962	69.400		16	-14.900	0.800	53.841	53.610
							16	-12.450	0.400	78.321	78.380		17	-15.010	0.800	64.024	64.170
<b>7</b>	3	-14.270	0.200	39.633	38.800	<b>8</b>	3	-13.120	0.100	47.382	47.740	<b>9</b>	4	-14.200	0.900	42.117	42.030
	4	-15.120	0.530	24.947	24.366		4	-14.000	0.940	32.087	32.013		5	-15.310	0.800	31.842	31.960
	5	-16.200	0.800	17.122	17.338		5	-15.300	0.940	23.081	23.115		6	-15.780	0.500	16.402	16.567
	6	-16.530	0.800	5.374	5.345		6	-15.930	0.940	8.039	8.008		7	-16.250	0.910	10.564	10.675
	7	-16.750	0.800	2.836	2.863		7	-16.240	0.500	3.728	2.856		8	-16.170	0.910	2.233	1.952
	8	-16.350	0.800	0.018	0.101		8	-16.240	0.500	-4.836	-4.737		9	-16.300	0.900	0.901	0.873
	9	-16.200	0.800	5.918	5.684		9	-16.170	0.950	-0.486	-0.809		10	-16.130	0.900	-1.370	-1.487
	10	-15.900	0.940	7.911	7.870		10	-15.930	0.940	-0.387	-0.783		11	-16.180	0.910	0.171	-0.017
	11	-15.900	0.940	13.339	13.113		11	-15.930	0.940	3.921	3.333		12	-16.000	0.840	-0.634	-0.048
	12	-15.650	0.890	15.512	15.856		12	-15.850	0.940	3.437	3.796		13	-15.740	0.500	2.907	2.793
	13	-15.700	0.890	21.207	21.770		13	-15.930	0.940	7.699	8.062		14	-15.950	0.900	3.345	3.290
	14	-15.680	0.940	25.215	25.230		14	-15.850	0.940	9.600	9.280		15	-16.170	0.910	6.955	7.540
	15	-15.920	0.940	32.338	31.760		15	-16.170	0.950	13.664	14.620		16	-16.100	0.910	11.735	11.330
	16	-15.990	0.940	37.288	36.720		16	-16.170	0.950	18.904	18.500		17	-16.170	0.895	18.446	18.670
	17	-16.100	0.930	47.006	46.940		17	-16.090	0.895	27.233	27.330		18	-16.170	0.910	24.502	25.130
	18	-16.100	0.930	55.071	55.980		18	-16.010	0.895	35.201	34.660		19	-16.170	0.895	33.675	33.400
							19	-16.090	0.895	45.487	44.670		20	-16.170	0.895	39.768	40.150
							20	-16.090	0.895	53.007	52.080		21	-16.170	0.880	49.085	48.960
							21	-16.190	0.898	64.421	<b>63.890</b>		22	-16.170	0.880	56.275	56.840
							22	-16.270	0.898	71.089	<b>70.760</b>		23	-16.250	0.873	64.856	<b>64.720</b>
							23	-16.380	0.895	81.627	<b>81.500</b>		24	-16.200	0.866	72.826	<b>72.310</b>
							24	-16.420	0.895	90.570	<b>89.610</b>		25	-16.250	0.861	83.027	<b>83.420</b>
							25	-16.190	0.867	103.726	<b>103.640</b>		26	-16.280	0.866	92.858	<b>92.520</b>
							26	-16.210	0.867	113.644	<b>112.720</b>		27	-16.250	0.855	104.058	<b>103.110</b>
							27	-16.190	0.850	122.730	<b>122.670</b>		28	-16.250	0.846	110.252	<b>109.790</b>
							28	-16.190	0.845	131.370	<b>131.490</b>		29	-16.250	0.835	122.869	<b>122.800</b>
							29	-16.190	0.837	146.224	<b>146.280</b>		30	-16.250	0.830	133.651	<b>133.690</b>
							30	-16.190	0.830	156.875	<b>156.840</b>		31	-16.250	0.816	143.711	<b>143.980</b>
							31	-16.190	0.820	169.751	<b>169.710</b>		32	-16.250	0.811	153.989	<b>154.190</b>
							32	-16.190	0.811	178.451	<b>178.380</b>		33	-16.250	0.804	166.956	<b>167.490</b>
							33	-16.160	0.800	190.658	<b>191.480</b>		34	-16.250	0.802	178.896	<b>178.800</b>
							34	-16.170	0.800	204.345	<b>204.340</b>		35	-16.250	0.794	190.599	<b>190.670</b>
							35	-16.270	0.865	-3.121	-2.185		36	-16.200	0.786	200.226	<b>199.980</b>
							36	-16.250	0.785	214.202	<b>213.650</b>		37	-16.250	0.785		
<b>10</b>	5	-14.530	0.500	40.997	40.220	<b>11</b>	6	-15.010	0.500	35.177	34.720	<b>12</b>	7	-15.700	0.900	31.093	31.840
	6	-15															

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
10	-16.260	0.910	-7.824	-7.042		11	-16.270	0.865	-4.268	-5.181		12	-16.230	0.842	-13.168	-13.934	
11	-16.190	0.910	-5.071	-5.732		12	-16.270	0.865	-10.280	-9.530		13	-16.230	0.842	-13.303	-13.193	
12	-16.150	0.910	-8.887	-8.025		13	-16.270	0.865	-9.343	-8.418		14	-16.100	0.842	-15.311	-16.215	
13	-15.890	0.500	-4.492	-5.154		14	-16.060	0.800	-9.311	-9.358		15	-16.180	0.842	-13.590	-14.586	
14	-15.700	0.500	-5.528	-5.952		15	-16.180	0.865	-6.404	-6.861		16	-16.180	0.842	-14.774	-15.020	
15	-16.160	0.910	-2.267	-2.036		16	-16.180	0.865	-6.375	-5.518		17	-16.180	0.842	-9.919	-10.612	
16	-16.160	0.910	-0.386	0.481		17	-16.180	0.865	-0.099	-0.988		18	-16.180	0.842	-9.721	-8.881	
17	-16.160	0.910	8.012	7.050		18	-16.150	0.865	2.305	2.680		19	-16.180	0.842	-3.740	-3.122	
18	-16.160	0.910	11.623	11.300		19	-16.180	0.865	8.936	8.475		20	-16.130	0.842	-0.554	-0.829	
19	-16.180	0.882	17.870	18.400		20	-16.180	0.865	11.967	12.246		21	-16.180	0.842	4.965	4.963	
20	-16.160	0.882	23.082	23.280		21	-16.210	0.861	19.231	18.640		22	-16.180	0.842	7.907	8.323	
21	-16.220	0.882	31.703	31.180		22	-16.200	0.865	24.518	23.780		23	-16.180	0.842	16.144	15.640	
22	-16.220	0.882	37.783	37.000		23	-16.250	0.861	32.007	31.680		24	-16.180	0.842	20.387	20.380	
23	-16.290	0.876	45.848	46.130		24	-16.250	0.865	38.519	37.830		25	-16.200	0.842	28.962	28.210	
24	-16.290	0.876	53.098	52.840		25	-16.290	0.852	44.983	45.900		26	-16.210	0.842	34.043	34.070	
25	-16.250	0.856	61.530	<b>61.230</b>		26	-16.240	0.852	53.472	53.130		27	-16.180	0.835	43.698	42.780	
26	-16.250	0.856	69.432	<b>68.770</b>		27	-16.180	0.833	61.698	61.910		28	-16.180	0.835	50.115	49.550	
27	-16.280	0.848	78.515	<b>78.300</b>		28	-16.150	0.833	70.127	69.980		29	-16.330	0.837	58.708	58.100	
28	-16.250	0.839	84.986	<b>85.120</b>		29	-16.290	0.832	79.231	<b>78.760</b>		30	-16.030	0.792	65.638	<b>64.720</b>	
29	-16.250	0.833	98.837	<b>98.650</b>		30	-16.270	0.825	88.338	<b>87.680</b>		31	-16.030	0.785	76.345	<b>75.520</b>	
30	-16.250	0.826	107.905	<b>107.090</b>		31	-16.270	0.815	99.244	<b>98.460</b>		32	-16.090	0.785	83.203	<b>83.580</b>	
31	-16.250	0.815	118.970	<b>118.470</b>		32	-16.270	0.809	107.638	<b>107.620</b>		33	-16.030	0.776	95.446	<b>94.800</b>	
32	-16.250	0.808	127.517	<b>127.620</b>		33	-16.270	0.801	118.791	<b>118.930</b>		34	-16.050	0.773	102.873	<b>103.000</b>	
33	-16.250	0.800	139.234	<b>139.350</b>		34	-16.270	0.798	128.506	<b>128.850</b>		35	-16.090	0.773	114.675	<b>114.360</b>	
34	-16.250	0.800	151.475	<b>150.760</b>		35	-16.270	0.789	138.516	<b>138.460</b>		36	-16.090	0.771	123.774	<b>123.580</b>	
35	-16.250	0.788	160.092	<b>159.920</b>		36	-16.270	0.788	149.368	<b>148.730</b>		37	-16.090	0.767	135.376	<b>135.390</b>	
36	-16.250	0.786	171.013	<b>170.530</b>		37	-16.270	0.782	160.704	<b>161.060</b>		38	-16.090	0.766	145.271	<b>144.900</b>	
37	-16.250	0.783	185.005	<b>185.190</b>		38	-16.270	0.780	171.016	<b>171.170</b>		39	-16.090	0.762	156.764	<b>156.720</b>	
38	-16.250	0.781	196.057	<b>195.800</b>		39	-16.270	0.778	184.954	<b>184.760</b>		40	-16.090	0.760	166.149	<b>166.340</b>	
39	-16.250	0.777	209.125	<b>208.790</b>		40	-16.270	0.777	196.238	<b>195.940</b>		41	-16.090	0.759	179.762	<b>179.490</b>	
40	-16.250	0.775	220.209	<b>219.960</b>		41	-16.270	0.773	208.555	<b>208.380</b>		42	-16.090	0.758	190.141	<b>190.340</b>	
41	-16.250	0.771	232.989	<b>232.780</b>		42	-16.270	0.770	218.205	<b>218.250</b>		43	-16.090	0.754	201.354	<b>201.400</b>	
						43	-16.270	0.767	231.139	<b>231.420</b>		44	-16.090	0.753	211.864	<b>211.820</b>	
						44	-16.270	0.766	242.655	<b>243.010</b>		45	-16.090	0.751	224.740	<b>224.970</b>	
						45	-16.270	0.749	249.362			46	-16.090	0.750	235.438	<b>235.500</b>	
						46	-16.090	0.749				47	-16.090	0.747			
<b>13</b>	<b>8</b>	-15.950	0.950	26.149	27.090	<b>14</b>	<b>8</b>	-15.900	0.965	33.296	33.640	<b>15</b>	<b>8</b>	-16.120	0.970	45.226	<b>44.280</b>
9	-16.100	0.930	18.114	18.200		9	-16.040	0.932	23.110	23.950		9	-16.230	0.939	33.152	34.020	
10	-16.100	0.930	7.613	6.748		10	-16.040	0.932	11.563	10.745		10	-16.200	0.939	20.667	20.190	
11	-16.260	0.842	-0.498	-0.049		11	-16.170	0.965	3.805	3.827		11	-16.310	0.939	11.067	10.970	
12	-16.260	0.842	-9.469	-8.916		12	-16.170	0.965	-6.762	-7.141		12	-16.310	0.939	-0.812	-0.659	
13	-16.260	0.842	-11.972	-12.210		13	-16.200	0.839	-11.793	-12.385		13	-16.310	0.939	-6.304	-7.148	
14	-16.200	0.842	-16.793	-17.197		14	-16.270	0.839	-22.156	-21.493		14	-16.310	0.939	-16.334	-16.953	
15	-16.260	0.842	-15.940	-16.851		15	-16.290	0.839	-21.362	-21.895		15	-16.400	0.893	-20.321	-20.201	
16	-16.260	0.842	-18.292	-18.208		16	-16.270	0.839	-24.097	-24.433		16	-16.400	0.893	-24.779	-24.441	
17	-16.280	0.842	-15.339	-15.864		17	-16.300	0.839	-22.574	-22.949		17	-16.400	0.893	-23.450	-24.305	
18	-16.260	0.842	-15.700	-14.951		18	-16.270	0.839	-23.584	-24.078		18	-16.400	0.893	-26.255	-26.337	
19	-16.260	0.842	-10.996	-11.099		19	-16.270	0.839	-19.980	-20.514		19	-16.420	0.893	-24.169	-24.549	
20	-16.220	0.845	-9.052	-8.497		20	-16.270	0.839	-20.532	-19.992		20	-16.400	0.893	-24.638	-24.858	
21	-16.220	0.845	-3.088	-2.998		21	-16.230	0.841	-14.238	-14.390		21	-16.400	0.893	-20.432	-20.251	
22	-16.220	0.845	-1.179	-0.224		22	-16.230	0.841	-13.351	-12.440		22	-16.400	0.893	-19.959	-19.000	
23	-16.220	0.845	5.942	5.950		23	-16.230	0.841	-7.350	-6.570		23	-16.400	0.893	-14.342	-14.620	
24	-16.220	0.845	9.183	9.810		24	-16.230	0.841	-5.138	-4.170		24	-16.400	0.893	-12.307	-12.770	
25	-16.220	0.842	16.910	16.470		25	-16.230	0.841	1.986	2.320		25	-16.150	0.783	-8.249	-8.140	
26	-16.220	0.842	21.338	21.490		26	-16.230	0.841	5.464	5.670		26	-16.120	0.783	-5.760	-4.980	
27	-16.260	0.842	28.959	28.820		27	-16.230	0.839	13.275	13.200		27	-16.100	0.783	0.927	1.090	
28	-16.260	0.842	34.539	34.590		28	-16.270	0.839	16.220	16.840		28	-16.070	0.783	4.555	5.040	
29	-16.430	0.850	42.890	41.990		29	-16.340	0.836	24.490	24.330		29	-16.010	0.756	11.360	11.110	
30	-16.130	0.799	49.198	48.270		30	-16.400	0.836	30.228	29.310		30	-16.070	0.762	15.472	15.960	
31	-16.110	0.787	58.536	<b>57.810</b>		31	-16.120	0.776	37.005	37.090		31	-16.110	0.762	23.309	22.840	
32	-16.010	0.771	65.748	<b>65.920</b>		32	-16.010	0.762	44.980	<b>45.170</b>		32	-16.110	0.762	29.530	28.810	
33	-16.000	0.763	75.286	<b>75.470</b>		33	-16.050	0.762	54.271	<b>54.820</b>		33	-16.110	0.762	39.740	<b>39.360</b>	
34	-16.000	0.763	83.833	<b>83.560</b>		34	-16.050	0.762	62.016	<b>61.770</b>		34	-16.110	0.762	46.637	<b>46.210</b>	
35	-16.050	0.763	93.933	<b>93.880</b>		35	-16.070	0.762	72.687	<b>72.160</b>		35	-16.150</				

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.						
46	-16.080	0.749	210.545	<b>210.470</b>		46	-16.090	0.747	181.847	<b>181.880</b>		46	-16.090	0.745	159.824	<b>159.720</b>			
47	-16.080	0.747	222.857	<b>222.790</b>		47	-16.090	0.745	193.579	<b>193.580</b>		47	-16.090	0.742	170.082	<b>169.570</b>			
48	-16.080	0.746	233.136	<b>233.130</b>		48	-16.090	0.744	203.260	<b>203.190</b>		48	-16.090	0.743	180.882	<b>181.030</b>			
49	-16.080	0.744	245.442	<b>245.370</b>		49	-16.090	0.742	215.012	<b>215.290</b>		49	-16.090	0.741	192.087	<b>192.180</b>			
50	-16.080	0.744	257.001	<b>256.850</b>		50	-16.090	0.739	222.750	<b>222.950</b>		50	-16.090	0.741	202.364	<b>201.910</b>			
						51	-16.090	0.740	240.463	<b>239.850</b>		51	-16.090	0.737	214.284	<b>213.940</b>			
						52	-16.090	0.737	250.890	<b>250.970</b>		52	-16.090	0.735	225.273	<b>224.920</b>			
						53	-16.090	0.734	263.993	<b>264.190</b>		53	-16.100	0.732	237.205	<b>237.430</b>			
						54	-16.090	0.732	275.339	<b>275.670</b>		54	-16.100	0.731	249.199	<b>248.910</b>			
											55	-16.100	0.728	261.524	<b>261.510</b>				
											56	-16.100	0.727	273.477	<b>273.230</b>				
											57	-16.100	0.723	284.190	<b>283.570</b>				
											58	-16.100	0.721	294.671	<b>294.420</b>				
16	8	-16.160	0.955	54.563	<b>53.930</b>		17	8	-16.180	0.914	68.279	<b>67.840</b>		18	9	-16.090	0.864	66.898	<b>66.150</b>
9	-16.150	0.907	42.397	<b>42.360</b>		9	-16.170	0.864	54.279	<b>54.940</b>		10	-16.100	0.811	46.922	<b>47.310</b>			
10	-16.250	0.925	26.800	27.680		10	-16.250	0.864	37.655	<b>37.820</b>		11	-16.120	0.811	37.759	37.970			
11	-16.310	0.925	17.202	17.490		11	-16.200	0.822	28.633	28.270		12	-16.350	0.893	21.311	22.070			
12	-16.310	0.925	4.288	4.070		12	-16.280	0.822	13.617	14.020		13	-16.400	0.893	10.756	11.330			
13	-16.310	0.925	-2.407	-3.094		13	-16.320	0.822	5.507	4.675		14	-16.400	0.893	-2.503	-2.200			
14	-16.310	0.925	-13.523	-14.059		14	-16.350	0.822	-6.885	-7.035		15	-16.460	0.893	-9.607	-9.384			
15	-16.400	0.893	-18.962	-19.043		15	-16.460	0.893	-13.342	-13.335		16	-16.460	0.893	-18.797	-18.378			
16	-16.400	0.893	-25.768	-26.016		16	-16.460	0.893	-21.429	-21.003		17	-16.460	0.893	-22.490	-23.047			
17	-16.400	0.893	-25.658	-26.586		17	-16.460	0.893	-23.926	-24.440		18	-16.460	0.893	-29.950	-30.232			
18	-16.400	0.893	-29.562	-29.932		18	-16.460	0.893	-29.083	-29.014		19	-16.460	0.893	-30.889	-30.948			
19	-16.400	0.893	-27.993	-28.846		19	-16.460	0.893	-28.854	-29.522		20	-16.430	0.899	-34.244	-34.715			
20	-16.400	0.893	-30.228	-30.664		20	-16.460	0.893	-32.319	-31.762		21	-16.430	0.899	-33.594	-33.242			
21	-16.400	0.893	-27.195	-26.896		21	-16.460	0.893	-30.594	-29.798		22	-16.400	0.899	-35.170	-35.040			
22	-16.400	0.893	-27.797	-26.861		22	-16.320	0.822	-29.207	-29.800		23	-16.400	0.899	-32.975	-33.068			
23	-16.400	0.893	-23.330	-23.160		23	-16.320	0.822	-26.794	-27.560		24	-16.430	0.899	-35.338	-34.423			
24	-16.400	0.893	-22.353	-22.838		24	-16.320	0.822	-27.923	-27.310		25	-16.430	0.899	-31.707	-32.010			
25	-16.310	0.828	-19.144	-19.009		25	-16.320	0.822	-24.381	-24.830		26	-16.250	0.775	-32.499	-32.673			
26	-16.310	0.828	-17.946	-17.638		26	-16.320	0.822	-24.255	-24.160		27	-16.250	0.775	-29.532	-29.771			
27	-16.310	0.828	-12.176	-12.195		27	-16.320	0.822	-19.626	-20.480		28	-16.250	0.775	-29.877	-29.771			
28	-16.310	0.828	-9.780	-9.204		28	-16.320	0.822	-18.302	-18.260		29	-16.330	0.785	-25.772	-25.367			
29	-16.190	0.775	-4.318	-3.340		29	-16.270	0.775	-14.720	-13.730		30	-16.350	0.785	-23.266	-22.355			
30	-16.200	0.775	0.220	0.640		30	-16.250	0.775	-9.702	-9.580		31	-16.370	0.785	-16.785	-17.060			
31	-16.250	0.773	6.498	7.200		31	-16.330	0.778	-4.804	-4.280		32	-16.350	0.772	-14.048	-13.230			
32	-16.250	0.773	12.145	12.390		32	-16.330	0.778	0.084	0.740		33	-16.350	0.772	-6.212	-6.490			
33	-16.270	0.773	20.772	20.390		33	-16.350	0.778	7.897	7.700		34	-16.350	0.772	-1.480	-1.380			
34	-16.110	0.751	28.262	<b>27.620</b>		34	-16.350	0.778	13.530	14.290		35	-16.350	0.772	7.007	6.790			
35	-16.130	0.751	36.887	<b>36.780</b>		35	-16.220	0.755	22.633	22.360		36	-16.210	0.745	11.930	12.560			
36	-16.130	0.751	43.344	<b>43.150</b>		36	-16.200	0.755	29.458	<b>29.620</b>		37	-16.210	0.745	20.348	<b>20.850</b>			
37	-16.130	0.751	53.493	<b>52.990</b>		37	-16.220	0.755	37.825	<b>37.760</b>		38	-16.210	0.745	25.789	<b>26.230</b>			
38	-16.130	0.751	60.558	<b>59.670</b>		38	-16.220	0.755	44.230	<b>44.230</b>		39	-16.210	0.745	34.738	<b>34.970</b>			
39	-16.220	0.758	69.614	<b>69.670</b>		39	-16.240	0.755	53.070	<b>53.130</b>		40	-16.210	0.745	40.783	<b>40.950</b>			
40	-16.200	0.755	76.997	<b>77.160</b>		40	-16.220	0.755	61.205	<b>60.270</b>		41	-16.210	0.745	50.239	<b>50.190</b>			
41	-16.200	0.755	88.208	<b>87.940</b>		41	-16.200	0.747	68.788	<b>69.550</b>		42	-16.190	0.741	56.091	<b>56.630</b>			
42	-16.200	0.755	96.494	<b>95.740</b>		42	-16.200	0.747	76.102	<b>76.920</b>		43	-16.190	0.741	65.905	<b>65.830</b>			
43	-16.220	0.755	106.989	<b>106.680</b>		43	-16.200	0.745	85.611	<b>86.530</b>		44	-16.150	0.739	74.295	<b>74.130</b>			
44	-16.220	0.755	115.788	<b>114.950</b>		44	-16.180	0.745	94.602	<b>95.530</b>		45	-16.170	0.739	83.266	<b>83.850</b>			
45	-16.200	0.751	126.233	<b>125.760</b>		45	-16.160	0.743	105.582	<b>105.810</b>		46	-16.170	0.739	90.760	<b>91.290</b>			
46	-16.200	0.750	134.627	<b>134.190</b>		46	-16.160	0.743	113.818	<b>113.970</b>		47	-16.190	0.741	101.468	<b>101.250</b>			
47	-16.200	0.748	145.344	<b>145.240</b>		47	-16.200	0.745	124.152	<b>123.670</b>		48	-16.210	0.741	108.193	<b>108.930</b>			
48	-16.200	0.747	153.994	<b>154.220</b>		48	-16.200	0.745	132.915	<b>132.520</b>		49	-16.210	0.741	119.289	<b>119.190</b>			
49	-16.200	0.746	165.682	<b>165.260</b>		49	-16.200	0.743	143.123	<b>143.120</b>		50	-16.210	0.741	127.782	<b>127.330</b>			
50	-16.200	0.745	174.599	<b>174.870</b>		50	-16.200	0.744	153.128	<b>152.760</b>		51	-16.210	0.737	138.510	<b>138.440</b>			
51	-16.200	0.741	186.235	<b>186.320</b>		51	-16.200	0.740	164.340	<b>164.030</b>		52	-16.210	0.735	148.079	<b>147.600</b>			
52	-16.200	0.738	195.852	<b>196.200</b>		52	-16.200	0.737	173.519	<b>173.930</b>		53	-16.210	0.732	159.416	<b>159.070</b>			
53	-16.200	0.736	209.178	<b>208.670</b>		53	-16.200	0.735	186.329	<b>185.610</b>		54	-16.210	0.730	168.912	<b>168.830</b>			
54	-16.200	0.733	218.580	<b>218.720</b>		54	-16.200	0.732	195.324	<b>194.830</b>		55	-16.210	0.727	180.021	<b>179.520</b>			
55	-16.200	0.730	230.553	<b>230.660</b>		55	-16.200	0.728	205.793	<b>205.540</b>		56	-16.210	0.726	190.478	<b>190.020</b>			
56	-16.200	0.728	240.865	<b>241.310</b>		56	-16.200	0.726	215.615	<b>216.140</b>		57	-16.210	0.723	201.374	<b>201.510</b>			
57	-16.200	0.726	253.771	<b>254.140</b>		57	-16.200	0.724	228.016	<b>228.270</b>		58	-16.210	0.722	211.837	<b>211.910</b>			
58	-16.200	0.726	266.543	<b>266.320</b>		58	-16.200	0.724	240										

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
14	-16.440	0.899	7.462	7.540		14	-16.450	0.899	14.591	14.890	15	-16.390	0.795	16.189	16.150		
15	-16.490	0.899	-0.804	-1.220		15	-16.490	0.899	5.388	5.190	16	-16.420	0.795	3.800	3.780		
16	-16.490	0.899	-11.282	-11.173		16	-16.490	0.899	-6.200	-6.450	17	-16.470	0.795	-4.382	-4.250		
17	-16.500	0.899	-16.689	-17.417		17	-16.490	0.899	-12.437	-13.136	18	-16.470	0.795	-14.392	-14.173		
18	-16.490	0.899	-25.016	-24.800		18	-16.490	0.899	-22.209	-22.059	19	-16.470	0.795	-19.534	-20.523		
19	-16.490	0.899	-28.448	-28.801		19	-16.490	0.899	-26.801	-27.283	20	-16.470	0.795	-28.189	-28.642		
20	-16.490	0.899	-34.143	-33.807		20	-16.490	0.899	-34.760	-34.846	21	-16.470	0.795	-32.134	-32.121		
21	-16.450	0.899	-33.181	-33.536		21	-16.450	0.899	-34.891	-35.138	22	-16.430	0.779	-36.731	-36.188		
22	-16.380	0.813	-35.280	-35.560		22	-16.390	0.789	-37.976	-38.547	23	-16.430	0.779	-38.503	-37.816		
23	-16.360	0.813	-34.142	-35.022		23	-16.370	0.789	-37.885	-38.409	24	-16.360	0.774	-40.478	-41.072		
24	-16.360	0.813	-37.213	-36.575		24	-16.370	0.789	-41.991	-41.469	25	-16.360	0.774	-41.162	-41.762		
25	-16.360	0.813	-35.753	-35.782		25	-16.370	0.789	-41.671	-40.812	26	-16.360	0.774	-45.047	-44.337		
26	-16.360	0.813	-37.568	-36.616		26	-16.350	0.789	-43.677	-43.140	27	-16.360	0.774	-44.730	-44.504		
27	-16.360	0.813	-35.008	-35.414		27	-16.370	0.789	-43.244	-42.345	28	-16.360	0.774	-47.517	-46.562		
28	-16.360	0.813	-35.621	-35.712		28	-16.370	0.789	-45.039	-44.225	29	-16.360	0.774	-43.601	-44.537		
29	-16.350	0.779	-32.386	-32.285		29	-16.390	0.789	-41.003	-41.300	30	-16.360	0.774	-42.773	-43.250		
30	-16.350	0.779	-29.898	-29.612		30	-16.390	0.789	-39.137	-39.589	31	-16.430	0.779	-41.216	-40.524		
31	-16.390	0.779	-25.446	-25.728		31	-16.430	0.783	-36.104	-36.332	32	-16.400	0.774	-38.492	-38.770		
32	-16.390	0.779	-22.152	-22.515		32	-16.430	0.783	-33.509	-34.266	33	-16.430	0.779	-34.001	-34.438		
33	-16.440	0.783	-16.848	-17.140		33	-16.470	0.783	-29.225	-29.390	34	-16.400	0.774	-30.581	-30.842		
34	-16.440	0.783	-12.691	-12.300		34	-16.450	0.783	-24.751	-25.161	35	-16.430	0.779	-25.196	-25.516		
35	-16.440	0.783	-4.801	-5.150		35	-16.490	0.789	-18.548	-18.650	36	-16.430	0.779	-21.810	-21.380		
36	-16.440	0.783	0.140	0.470		36	-16.490	0.789	-14.209	-13.510	37	-16.430	0.779	-14.872	-15.480		
37	-16.210	0.740	8.856	7.980		37	-16.490	0.789	-6.272	-6.560	38	-16.430	0.779	-10.711	-10.830		
38	-16.210	0.740	13.470	14.130		38	-16.220	0.735	-1.216	-1.530	39	-16.450	0.779	-4.296	-4.550		
39	-16.210	0.740	21.553	21.930		39	-16.220	0.735	6.058	5.810	40	-16.230	0.733	-0.404	0.500		
40	-16.190	0.740	27.958	28.750		40	-16.220	0.735	10.516	11.000	41	-16.230	0.733	6.663	7.310		
41	-16.210	0.740	35.379	<b>35.880</b>		41	-16.220	0.735	18.313	19.010	42	-16.210	0.733	12.281	13.070		
42	-16.190	0.740	42.407	<b>42.290</b>		42	-16.220	0.735	23.358	<b>24.070</b>	43	-16.230	0.733	18.602	<b>19.340</b>		
43	-16.190	0.738	50.559	<b>50.780</b>		43	-16.220	0.735	31.656	<b>32.510</b>	44	-16.210	0.733	24.833	<b>25.080</b>		
44	-16.190	0.738	56.871	<b>57.660</b>		44	-16.220	0.735	37.262	<b>38.210</b>	45	-16.210	0.733	32.926	<b>32.730</b>		
45	-16.210	0.740	66.212	<b>66.590</b>		45	-16.220	0.735	46.038	<b>46.830</b>	46	-16.210	0.733	38.423	<b>38.740</b>		
46	-16.210	0.740	73.107	<b>73.740</b>		46	-16.220	0.735	52.178	<b>52.950</b>	47	-16.210	0.733	46.986	<b>46.650</b>		
47	-16.210	0.740	83.124	<b>82.750</b>		47	-16.220	0.735	61.411	<b>61.710</b>	48	-16.210	0.733	53.005	<b>52.860</b>		
48	-16.210	0.740	90.524	<b>90.080</b>		48	-16.220	0.735	68.061	<b>68.260</b>	49	-16.230	0.733	60.617	<b>60.920</b>		
49	-16.210	0.738	99.548	<b>99.390</b>		49	-16.220	0.735	77.730	<b>77.450</b>	50	-16.230	0.733	67.114	<b>67.830</b>		
50	-16.210	0.738	107.347	<b>107.230</b>		50	-16.190	0.732	84.884	<b>84.420</b>	51	-16.210	0.729	77.819	<b>77.380</b>		
51	-16.210	0.734	117.571	<b>117.610</b>		51	-16.220	0.732	95.342	<b>94.780</b>	52	-16.230	0.729	85.714	<b>85.600</b>		
52	-16.210	0.732	126.561	<b>126.790</b>		52	-16.150	0.723	103.472	<b>103.070</b>	53	-16.150	0.718	95.484	<b>95.770</b>		
53	-16.210	0.730	138.237	<b>137.580</b>		53	-16.170	0.723	114.562	<b>114.020</b>	54	-16.150	0.718	104.807	<b>104.610</b>		
54	-16.210	0.728	147.221	<b>147.300</b>		54	-16.170	0.721	122.903	<b>122.950</b>	55	-16.170	0.718	115.353	<b>115.170</b>		
55	-16.210	0.726	158.821	<b>158.500</b>		55	-16.170	0.720	134.731	<b>134.210</b>	56	-16.170	0.718	124.984	<b>124.360</b>		
56	-16.210	0.725	168.770	<b>168.220</b>		56	-16.170	0.718	143.097	<b>143.270</b>	57	-16.170	0.715	134.559	<b>134.600</b>		
57	-16.210	0.721	178.232	<b>178.270</b>		57	-16.170	0.715	153.025	<b>153.180</b>	58	-16.170	0.714	143.420	<b>143.770</b>		
58	-16.210	0.720	188.163	<b>188.640</b>		58	-16.170	0.715	163.334	<b>163.710</b>	59	-16.170	0.714	155.822	<b>155.710</b>		
59	-16.210	0.719	200.671	<b>200.700</b>		59	-16.170	0.714	175.230	<b>174.920</b>	60	-16.170	0.714	165.894	<b>165.350</b>		
60	-16.210	0.719	211.874	<b>211.430</b>		60	-16.170	0.713	184.676	<b>184.770</b>	61	-16.170	0.713	177.455	<b>177.080</b>		
61	-16.210	0.717	223.244	<b>223.720</b>		61	-16.170	0.712	196.624	<b>196.490</b>	62	-16.170	0.713	187.768	<b>187.530</b>		
62	-16.210	0.717	234.619	<b>234.240</b>		62	-16.170	0.713	208.551	<b>208.970</b>	63	-16.170	0.712	199.429	<b>199.120</b>		
63	-16.210	0.717	248.557	<b>249.050</b>		63	-16.170	0.713	221.872	<b>221.800</b>	64	-16.170	0.712	209.970	<b>209.480</b>		
64	-16.210	0.717	260.189	<b>260.070</b>		64	-16.170	0.713	232.913	<b>232.170</b>	65	-16.170	0.711	221.719	<b>221.210</b>		
65	-16.210	0.716	272.915	<b>272.550</b>		65	-16.170	0.712	245.107	<b>244.510</b>	66	-16.170	0.710	231.156	<b>231.130</b>		
66	-16.210	0.715	283.274	<b>283.910</b>		66	-16.170	0.711	254.962	<b>254.960</b>	67	-16.170	0.709	242.932	<b>243.190</b>		
67	-16.210	0.714	295.999	<b>296.310</b>		67	-16.170	0.710	267.168	<b>267.670</b>	68	-16.170	0.709	253.842	<b>254.180</b>		
68	-16.210	0.714	307.960	<b>307.930</b>		68	-16.170	0.710	278.555	<b>278.050</b>	69	-16.170	0.708	265.680	<b>265.880</b>		
						69	-16.170	0.709	290.809	<b>290.660</b>	70	-16.170	0.708	276.782	<b>276.690</b>		
						70	-16.170	0.708	300.790	<b>301.250</b>	71	-16.170	0.707	288.670	<b>288.870</b>		
						71	-16.170	0.708	314.668	<b>314.260</b>	72	-16.170	0.707	299.953	<b>299.870</b>		
						72	-16.170	0.707	324.717	<b>325.240</b>	73	-16.170	0.706	311.880	<b>311.940</b>		
										74	-16.170	0.705	321.621	<b>321.360</b>			
<b>22</b>	<b>12</b>	-16.250	0.790	63.395	<b>62.830</b>	<b>23</b>	<b>13</b>	-16.170	0.721	61.566	<b>62.440</b>	<b>24</b>	<b>14</b>	-16.300	0.765	55.098	<b>55.750</b>
<b>13</b>	-16.250	0.765	49.515	<b>49.680</b>		<b>14</b>	-16.170	0.721	46.646	<b>45.870</b>	<b>15</b>	-16.330	0.765	44.294	<b>43.630</b>		
<b>14</b>	-16.280	0.765	33.408	<b>33.280</b>		<b>15</b>	-16.440	0.790	33.412	<b>34.080</b>	<b>16</b>	-16.380	0.765	28.993	<b>28.150</b>		
15	-16.210	0.700	24.793	25.170		16	-16.400	0.790	21.930	22.570	17	-16.380</					

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
26	-16.390	0.803	-48.974	-48.493		27	-16.390	0.792	-48.955	-49.223		28	-16.400	0.795	-56.262	-55.420	
27	-16.390	0.803	-49.203	-48.564		28	-16.390	0.792	-53.098	-52.203		29	-16.400	0.795	-54.626	-55.288	
28	-16.390	0.803	-52.423	-51.432		29	-16.390	0.792	-50.662	-51.443		30	-16.420	0.774	-57.715	-56.935	
29	-16.390	0.803	-48.970	-49.733		30	-16.390	0.792	-51.161	-51.852		31	-16.420	0.774	-55.434	-55.110	
30	-16.390	0.803	-48.494	-49.478		31	-16.400	0.768	-49.899	-49.898		32	-16.420	0.774	-55.985	-55.285	
31	-16.390	0.768	-46.972	-46.881		32	-16.400	0.768	-49.813	-49.125		33	-16.420	0.774	-52.885	-52.525	
32	-16.390	0.768	-46.126	-45.744		33	-16.400	0.768	-46.050	-46.183		34	-16.420	0.774	-52.548	-51.992	
33	-16.390	0.768	-41.568	-41.832		34	-16.400	0.768	-45.111	-44.435		35	-16.420	0.774	-48.662	-48.116	
34	-16.390	0.768	-39.889	-39.423		35	-16.400	0.768	-40.599	-40.431		36	-16.420	0.774	-47.476	-46.909	
35	-16.390	0.768	-34.603	-34.402		36	-16.380	0.768	-37.663	-37.611		37	-16.420	0.774	-42.837	-42.497	
36	-16.380	0.768	-31.546	-30.918		37	-16.400	0.768	-33.613	-33.087		38	-16.420	0.774	-40.839	-40.853	
37	-16.390	0.768	-26.143	-25.880		38	-16.400	0.768	-31.077	-30.177		39	-16.420	0.774	-35.480	-36.178	
38	-16.390	0.768	-22.904	-22.100		39	-16.400	0.768	-25.159	-25.213		40	-16.420	0.774	-32.707	-33.640	
39	-16.390	0.768	-16.254	-16.370		40	-16.400	0.768	-21.878	-21.740		41	-16.440	0.774	-27.960	-28.310	
40	-16.390	0.768	-12.286	-12.200		41	-16.420	0.768	-16.584	-16.320		42	-16.430	0.770	-24.908	-25.140	
41	-16.390	0.768	-4.999	-5.860		42	-16.400	0.768	-11.311	-12.110		43	-16.450	0.770	-19.666	-19.270	
42	-16.200	0.729	-1.224	-1.480		43	-16.250	0.729	-7.040	-6.300		44	-16.150	0.706	-15.623	-15.690	
43	-16.220	0.729	4.367	5.210		44	-16.230	0.729	-2.056	-1.744		45	-16.150	0.706	-10.016	-9.630	
44	-16.220	0.729	8.624	<b>8.480</b>		45	-16.250	0.729	3.338	<b>3.880</b>		46	-16.140	0.706	-6.219	-5.640	
45	-16.220	0.729	15.994	<b>16.100</b>		46	-16.230	0.729	8.928	<b>8.730</b>		47	-16.210	0.720	0.442	<b>0.490</b>	
46	-16.220	0.729	20.803	<b>21.130</b>		47	-16.250	0.729	14.774	<b>15.470</b>		48	-16.210	0.720	4.425	<b>4.710</b>	
47	-16.240	0.731	28.243	<b>28.920</b>		48	-16.230	0.729	20.946	<b>21.000</b>		49	-16.210	0.720	11.324	<b>11.430</b>	
48	-16.240	0.731	33.628	<b>34.050</b>		49	-16.250	0.729	27.223	<b>27.840</b>		50	-16.210	0.720	15.820	<b>16.440</b>	
49	-16.220	0.729	42.289	<b>42.110</b>		50	-16.230	0.729	33.952	<b>33.710</b>		51	-16.210	0.720	25.666	<b>25.010</b>	
50	-16.220	0.729	48.128	<b>48.080</b>		51	-16.170	0.718	42.712	<b>42.350</b>		52	-16.150	0.710	32.033	<b>31.560</b>	
51	-16.240	0.729	57.953	<b>57.570</b>		52	-16.190	0.718	49.130	<b>49.750</b>		53	-16.170	0.710	40.383	<b>40.830</b>	
52	-16.150	0.717	65.453	<b>64.980</b>		53	-16.190	0.718	59.790	<b>59.100</b>		54	-16.150	0.708	48.183	<b>48.050</b>	
53	-16.170	0.717	75.168	<b>75.110</b>		54	-16.190	0.717	67.370	<b>67.090</b>		55	-16.150	0.708	58.312	<b>57.730</b>	
54	-16.170	0.715	82.465	<b>83.150</b>		55	-16.210	0.717	76.744	<b>76.920</b>		56	-16.170	0.708	64.512	<b>65.330</b>	
55	-16.170	0.715	93.875	<b>93.640</b>		56	-16.210	0.717	85.305	<b>85.250</b>		57	-16.170	0.708	74.918	<b>75.310</b>	
56	-16.170	0.715	102.900	<b>102.070</b>		57	-16.170	0.712	95.709	<b>95.120</b>		58	-16.170	0.708	83.036	<b>83.210</b>	
57	-16.170	0.712	112.027	<b>112.420</b>		58	-16.170	0.712	104.446	<b>104.190</b>		59	-16.150	0.706	93.747	<b>93.580</b>	
58	-16.170	0.712	121.250	<b>121.470</b>		59	-16.190	0.712	114.138	<b>114.400</b>		60	-16.150	0.706	102.129	<b>101.560</b>	
59	-16.170	0.712	133.083	<b>133.050</b>		60	-16.190	0.712	123.175	<b>123.140</b>		61	-16.170	0.706	111.336	<b>111.980</b>	
60	-16.170	0.711	141.633	<b>141.870</b>		61	-16.190	0.711	133.790	<b>133.800</b>		62	-16.170	0.706	120.008	<b>120.290</b>	
61	-16.170	0.711	153.679	<b>153.330</b>		62	-16.190	0.711	143.092	<b>142.950</b>		63	-16.170	0.706	131.159	<b>131.160</b>	
62	-16.170	0.711	163.460	<b>163.010</b>		63	-16.190	0.710	153.837	<b>153.670</b>		64	-16.170	0.706	140.130	<b>139.940</b>	
63	-16.170	0.710	174.640	<b>174.710</b>		64	-16.190	0.710	163.389	<b>163.180</b>		65	-16.170	0.705	150.461	<b>150.930</b>	
64	-16.170	0.710	184.659	<b>184.200</b>		65	-16.190	0.709	174.249	<b>174.280</b>		66	-16.170	0.705	159.676	<b>159.960</b>	
65	-16.170	0.709	195.938	<b>195.840</b>		66	-16.190	0.709	184.038	<b>184.070</b>		67	-16.170	0.705	171.280	<b>171.240</b>	
66	-16.170	0.708	204.933	<b>205.460</b>		67	-16.190	0.708	195.001	<b>195.300</b>		68	-16.170	0.705	180.771	<b>180.490</b>	
67	-16.170	0.708	217.548	<b>217.550</b>		68	-16.190	0.708	205.014	<b>205.390</b>		69	-16.170	0.704	191.355	<b>191.820</b>	
68	-16.170	0.707	226.662	<b>227.180</b>		69	-16.190	0.707	216.065	<b>216.700</b>		70	-16.170	0.704	201.066	<b>201.130</b>	
69	-16.170	0.707	239.445	<b>239.150</b>		70	-16.190	0.707	226.290	<b>226.470</b>		71	-16.170	0.704	213.083	<b>212.740</b>	
70	-16.170	0.706	248.664	<b>248.960</b>		71	-16.190	0.706	237.418	<b>238.120</b>		72	-16.170	0.703	221.656	<b>222.040</b>	
71	-16.170	0.706	261.606	<b>261.250</b>		72	-16.190	0.706	247.844	<b>248.110</b>		73	-16.170	0.703	233.841	<b>233.560</b>	
72	-16.170	0.705	270.917	<b>271.390</b>		73	-16.190	0.705	259.036	<b>259.700</b>		74	-16.170	0.702	242.517	<b>243.090</b>	
73	-16.170	0.705	284.008	<b>283.780</b>		74	-16.190	0.705	269.653	<b>269.030</b>		75	-16.170	0.702	254.862	<b>254.770</b>	
74	-16.170	0.705	295.036	<b>294.210</b>		75	-16.190	0.704	280.899	<b>280.920</b>		76	-16.170	0.701	263.627	<b>264.140</b>	
75	-16.170	0.703	304.946	<b>305.240</b>		76	-16.190	0.704	291.695	<b>291.570</b>		77	-16.170	0.701	276.122	<b>275.810</b>	
76	-16.170	0.703	316.092	<b>316.490</b>		77	-16.210	0.704	302.698	<b>303.550</b>		78	-16.170	0.701	286.650	<b>285.960</b>	
				78	-16.190	0.703	313.950	<b>314.250</b>		79	-16.170	0.700	297.602	<b>297.990</b>			
25	15	-16.380	0.758	55.103	<b>56.010</b>	26	16	-16.400	0.765	50.203	<b>49.580</b>	27	17	-16.500	0.782	50.517	<b>49.960</b>
16	-16.380	0.758	41.037	<b>40.090</b>		17	-16.440	0.765	38.111	<b>37.660</b>		18	-16.500	0.761	33.800	<b>34.750</b>	
17	-16.480	0.780	28.973	<b>28.570</b>		18	-16.480	0.765	22.641	<b>22.810</b>		19	-16.500	0.761	23.731	<b>23.720</b>	
18	-16.450	0.780	17.024	<b>17.370</b>		19	-16.470	0.770	14.098	<b>14.410</b>		20	-16.480	0.755	11.191	<b>10.620</b>	
19	-16.460	0.760	7.174	<b>7.460</b>		20	-16.470	0.770	1.615	<b>1.210</b>		21	-16.480	0.755	2.419	<b>1.730</b>	
20	-16.460	0.760	-4.437	<b>-4.980</b>		21	-16.470	0.770	-6.497	<b>-7.130</b>		22	-16.480	0.755	-9.366	<b>-9.780</b>	
21	-16.460	0.760	-11.644	<b>-12.420</b>		22	-16.470	0.770	-17.660	<b>-18.010</b>		23	-16.480	0.755	-16.991	<b>-17.590</b>	
22	-16.460	0.760	-21.991	<b>-22.570</b>		23	-16.470	0.770	-24.585	<b>-24.751</b>		24	-16.480	0.755	-27.537	<b>-27.340</b>	
23	-16.480	0.760	-29.032	<b>-29.297</b>		24	-16.470	0.770	-34.466	<b>-34.476</b>		25	-16.480	0.755	-34.047	<b>-34.344&lt;/b</b>	

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)								
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.					
37	-16.420	0.768	-48.648	-48.524		38	-16.430	0.768	-55.641	-54.970		39	-16.440	0.767	-56.939	-56.409		
38	-16.420	0.768	-47.466	-46.887		39	-16.430	0.768	-51.812	-51.218		40	-16.440	0.767	-56.304	-55.322		
39	-16.420	0.768	-42.957	-42.989		40	-16.430	0.768	-50.491	-50.068		41	-16.440	0.767	-52.479	-51.643		
40	-16.420	0.768	-40.998	-40.967		41	-16.430	0.768	-45.954	-45.708		42	-16.440	0.767	-51.076	-50.385		
41	-16.420	0.768	-35.798	-36.750		42	-16.430	0.768	-43.878	-43.897		43	-16.440	0.767	-46.560	-46.525		
42	-16.420	0.768	-33.097	-33.580		43	-16.430	0.768	-38.665	-39.199		44	-16.440	0.767	-44.423	-44.370		
43	-16.440	0.768	-28.596	-28.920		44	-16.440	0.768	-36.566	-36.890		45	-16.450	0.767	-39.967	-40.300		
44	-16.440	0.768	-25.207	-25.360		45	-16.450	0.768	-31.426	-31.930		46	-16.460	0.767	-37.868	-37.970		
45	-16.430	0.761	-20.308	-20.450		46	-16.470	0.770	-28.755	-29.250		47	-16.470	0.767	-32.820	-33.540		
46	-16.430	0.761	-16.441	-16.620		47	-16.400	0.750	-24.090	-23.990		48	-16.490	0.767	-30.839	-30.560		
47	-16.210	0.715	-10.878	-11.170		48	-16.170	0.702	-20.769	-20.660		49	-16.420	0.750	-25.462	-25.660		
48	-16.210	0.715	-7.580	-6.700		49	-16.170	0.702	-15.440	-14.700		50	-16.420	0.750	-21.814	-21.910		
49	-16.210	0.715	-1.392	-0.950		50	-16.150	0.702	-10.946	-10.590		51	-16.180	0.701	-14.531	-15.320		
50	-16.190	0.715	3.922	<b>3.790</b>		51	-16.170	0.702	-4.240	<b>-3.610</b>		52	-16.180	0.701	-9.203	<b>-9.640</b>		
51	-16.210	0.715	11.540	<b>11.670</b>		52	-16.170	0.702	1.630	<b>1.960</b>		53	-16.180	0.701	-1.199	<b>-1.940</b>		
52	-16.210	0.715	18.282	<b>18.080</b>		53	-16.170	0.702	10.194	<b>10.450</b>		54	-16.180	0.701	4.520	<b>4.210</b>		
53	-16.170	0.706	25.905	<b>26.630</b>		54	-16.170	0.702	16.444	<b>16.760</b>		55	-16.180	0.701	12.861	<b>12.320</b>		
54	-16.150	0.706	34.342	<b>33.760</b>		55	-16.170	0.702	25.335	<b>26.090</b>		56	-16.180	0.701	18.956	<b>18.940</b>		
55	-16.170	0.706	42.281	<b>42.730</b>		56	-16.170	0.702	31.951	<b>32.610</b>		57	-16.180	0.701	27.623	<b>27.740</b>		
56	-16.170	0.706	49.499	<b>50.090</b>		57	-16.170	0.702	41.156	<b>41.770</b>		58	-16.180	0.701	34.080	<b>34.610</b>		
57	-16.170	0.706	59.325	<b>59.460</b>		58	-16.170	0.702	48.124	<b>48.770</b>		59	-16.180	0.701	43.060	<b>43.390</b>		
58	-16.170	0.706	66.891	<b>67.090</b>		59	-16.150	0.702	59.331	<b>58.750</b>		60	-16.160	0.701	51.606	<b>51.050</b>		
59	-16.170	0.706	77.014	<b>76.880</b>		60	-16.170	0.702	64.937	<b>65.900</b>		61	-16.180	0.701	59.147	<b>59.860</b>		
60	-16.150	0.704	84.999	<b>84.850</b>		61	-16.170	0.702	74.736	<b>74.980</b>		62	-16.180	0.701	66.288	<b>67.270</b>		
61	-16.170	0.704	93.628	<b>94.390</b>		62	-16.170	0.702	82.369	<b>82.450</b>		63	-16.180	0.700	75.042	<b>75.860</b>		
62	-16.170	0.704	101.768	<b>102.690</b>		63	-16.150	0.700	92.487	<b>92.170</b>		64	-16.160	0.700	84.287	<b>83.640</b>		
63	-16.170	0.704	112.370	<b>112.680</b>		64	-16.150	0.700	100.373	<b>100.130</b>		65	-16.180	0.700	92.279	<b>93.060</b>		
64	-16.170	0.704	120.816	<b>121.320</b>		65	-16.150	0.700	110.660	<b>110.380</b>		66	-16.160	0.700	101.873	<b>101.050</b>		
65	-16.170	0.704	131.680	<b>131.510</b>		66	-16.150	0.700	118.846	<b>118.540</b>		67	-16.180	0.700	110.093	<b>110.680</b>		
66	-16.170	0.704	140.423	<b>140.440</b>		67	-16.170	0.701	128.566	<b>129.010</b>		68	-16.180	0.700	118.126	<b>118.750</b>		
67	-16.170	0.703	150.441	<b>150.730</b>		68	-16.170	0.701	137.065	<b>137.290</b>		69	-16.180	0.700	128.465	<b>128.670</b>		
68	-16.170	0.703	159.424	<b>159.880</b>		69	-16.170	0.701	147.882	<b>147.880</b>		70	-16.180	0.700	136.787	<b>137.380</b>		
69	-16.170	0.703	170.741	<b>170.680</b>		70	-16.170	0.701	156.660	<b>156.540</b>		71	-16.180	0.700	147.375	<b>147.550</b>		
70	-16.170	0.703	179.997	<b>180.040</b>		71	-16.170	0.701	167.719	<b>167.390</b>		72	-16.180	0.700	155.974	<b>156.390</b>		
71	-16.170	0.702	190.268	<b>190.910</b>		72	-16.170	0.701	176.767	<b>176.230</b>		73	-16.180	0.700	166.803	<b>166.530</b>		
72	-16.170	0.702	199.742	<b>200.290</b>		73	-16.170	0.700	186.753	<b>187.140</b>		74	-16.180	0.700	175.670	<b>175.320</b>		
73	-16.170	0.702	211.471	<b>211.210</b>		74	-16.170	0.700	196.016	<b>195.900</b>		75	-16.180	0.699	185.401	<b>185.620</b>		
74	-16.170	0.702	221.199	<b>220.710</b>		75	-16.170	0.700	207.484	<b>206.860</b>		76	-16.180	0.699	194.480	<b>194.590</b>		
75	-16.170	0.701	231.677	<b>231.710</b>		76	-16.170	0.699	215.553	<b>215.740</b>		77	-16.180	0.698	204.296	<b>204.910</b>		
76	-16.170	0.701	241.600	<b>241.440</b>		77	-16.170	0.699	227.188	<b>226.730</b>		78	-16.180	0.698	213.576	<b>214.020</b>		
77	-16.170	0.700	252.143	<b>252.240</b>		78	-16.170	0.699	236.894	<b>236.130</b>		79	-16.180	0.698	224.983	<b>224.370</b>		
78	-16.170	0.700	262.252	<b>262.250</b>		79	-16.170	0.698	247.150	<b>247.110</b>		80	-16.180	0.698	234.503	<b>233.690</b>		
79	-16.170	0.699	272.848	<b>273.450</b>		80	-16.170	0.698	257.039	<b>256.510</b>		81	-16.180	0.697	244.503	<b>244.150</b>		
80	-16.170	0.699	283.133	<b>283.570</b>		81	-16.170	0.697	267.348	<b>267.650</b>		82	-16.180	0.697	254.205	<b>253.770</b>		
28	18	0.774	44.455	<b>44.430</b>		29	19	-16.540	0.750	44.953	<b>44.700</b>		30	21	-16.550	0.740	29.860	<b>29.610</b>
19	-16.500	0.760	32.176	<b>32.100</b>		20	-16.540	0.750	30.426	<b>29.920</b>		22	-16.550	0.740	16.074	<b>15.090</b>		
20	-16.500	0.769	18.892	18.180		21	-16.540	0.750	20.085	<b>19.600</b>		23	-16.550	0.740	6.291	<b>6.390</b>		
21	-16.500	0.769	9.132	8.530		22	-16.540	0.750	6.849	<b>6.400</b>		24	-16.520	0.700	-6.012	-5.702		
22	-16.480	0.769	-2.549	-3.460		23	-16.510	0.720	-1.823	-1.880		25	-16.520	0.700	-14.250	-14.270		
23	-16.480	0.769	-11.065	-11.650		24	-16.510	0.720	-13.463	-13.140		26	-16.520	0.700	-25.266	-25.390		
24	-16.480	0.769	-22.417	-22.560		25	-16.510	0.720	-21.215	-21.240		27	-16.520	0.700	-32.578	-32.550		
25	-16.480	0.769	-29.746	-29.631		26	-16.510	0.720	-31.761	-31.635		28	-16.520	0.700	-42.600	-42.299		
26	-16.480	0.769	-39.835	-39.278		27	-16.510	0.720	-38.531	-38.630		29	-16.520	0.700	-46.659	-47.216		
27	-16.480	0.769	-46.020	-45.336		28	-16.510	0.720	-48.025	-47.309		30	-16.520	0.700	-53.418	-54.174		
28	-16.480	0.769	-54.895	-53.908		29	-16.510	0.720	-51.461	-51.668		31	-16.520	0.700	-55.945	-56.349		
29	-16.480	0.769	-56.681	-56.084		30	-16.510	0.720	-56.799	-56.358		32	-16.520	0.700	-61.125	-61.168		
30	-16.450	0.770	-59.421	-60.229		31	-16.510	0.790	-58.319	-58.345		33	-16.520	0.700	-62.951	-62.213		
31	-16.450	0.770	-60.257	-61.157		32	-16.510	0.790	-62.491	-61.984		34	-16.520	0.794	-65.953	-66.004		
32	-16.450	0.770	-63.727	-64.473		33	-16.510	0.790	-63.140	-62.788		35	-16.520	0.794	-66.388	-65.912		
33	-16.450	0.770	-63.679	-64.222		34	-16.510	0.790	-66.288	-65.580		36	-16.520	0.794	-69.224	-68.899		
34	-16.450	0.770	-66.208	-66.746		35	-16.510	0.790	-66.007	-65.424		37	-16.520	0.794	-68.740	-67.880		
35	-16.450	0.770	-65.312	-65.513		36	-16.5											

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
48	-16.500	0.769	-42.689	-42.190		49	-16.440	0.751	-44.529	-44.789		51	-16.400	0.730	-46.634	-46.200	
49	-16.220	0.702	-37.141	-37.350		50	-16.440	0.751	-41.974	-42.408		52	-16.400	0.730	-42.214	-42.314	
50	-16.220	0.702	-35.175	-34.880		51	-16.470	0.751	-36.638	-36.679		53	-16.420	0.730	-36.802	-36.290	
51	-16.220	0.702	-28.038	-28.160		52	-16.240	0.700	-31.548	-31.910		54	-16.280	0.700	-31.898	-31.830	
52	-16.220	0.702	-23.195	-23.240		53	-16.260	0.700	-26.292	-25.730		55	-16.280	0.700	-25.169	-25.100	
53	-16.220	0.702	-15.693	-16.090		54	-16.240	0.700	-19.984	-20.390		56	-16.280	0.700	-20.606	-20.062	
54	-16.220	0.702	-10.446	-10.720		55	-16.240	0.700	-12.727	-13.720		57	-16.260	0.700	-11.777	<b>-12.230</b>	
55	-16.220	0.702	-2.593	<b>-2.350</b>		56	-16.230	0.700	-6.812	<b>-6.890</b>		58	-16.260	0.700	-6.802	<b>-7.160</b>	
56	-16.210	0.702	3.882	<b>3.520</b>		57	-16.230	0.700	0.803	<b>0.710</b>		59	-16.260	0.700	0.652	<b>0.650</b>	
57	-16.210	0.702	12.084	<b>12.220</b>		58	-16.230	0.700	6.260	<b>6.550</b>		60	-16.260	0.700	6.006	<b>6.150</b>	
58	-16.210	0.702	18.103	<b>18.190</b>		59	-16.230	0.700	14.210	<b>14.760</b>		61	-16.260	0.700	13.793	<b>13.760</b>	
59	-16.210	0.702	26.631	<b>27.500</b>		60	-16.230	0.700	20.036	<b>21.000</b>		62	-16.260	0.700	19.511	<b>19.470</b>	
60	-16.210	0.702	33.010	<b>33.870</b>		61	-16.230	0.700	28.308	<b>28.980</b>		63	-16.260	0.700	27.619	<b>27.690</b>	
61	-16.190	0.700	42.243	<b>42.470</b>		62	-16.230	0.700	34.488	<b>35.170</b>		64	-16.260	0.700	33.688	<b>34.010</b>	
62	-16.190	0.700	48.915	<b>49.050</b>		63	-16.230	0.700	43.071	<b>43.450</b>		65	-16.260	0.700	42.105	<b>42.540</b>	
63	-16.190	0.700	58.003	<b>57.600</b>		64	-16.230	0.700	49.592	<b>50.360</b>		66	-16.260	0.700	48.512	<b>49.030</b>	
64	-16.190	0.700	65.005	<b>64.550</b>		65	-16.230	0.700	58.474	<b>59.120</b>		67	-16.260	0.700	57.227	<b>57.750</b>	
65	-16.190	0.700	74.382	<b>73.990</b>		66	-16.230	0.700	65.324	<b>66.290</b>		68	-16.260	0.700	63.960	<b>64.440</b>	
66	-16.190	0.700	81.704	<b>81.330</b>		67	-16.230	0.700	74.494	<b>75.170</b>		69	-16.260	0.700	72.962	<b>73.290</b>	
67	-16.190	0.700	91.358	<b>90.910</b>		68	-16.230	0.700	81.661	<b>82.580</b>		70	-16.260	0.700	80.009	<b>80.490</b>	
68	-16.190	0.700	98.987	<b>98.330</b>		69	-16.230	0.700	91.110	<b>91.750</b>		71	-16.260	0.700	89.289	<b>89.940</b>	
69	-16.190	0.700	108.910	<b>108.150</b>		70	-16.230	0.700	98.583	<b>99.540</b>		72	-16.260	0.700	96.639	<b>97.370</b>	
70	-16.190	0.700	116.835	<b>115.990</b>		71	-16.230	0.700	108.299	<b>108.880</b>		73	-16.260	0.700	106.186	<b>107.180</b>	
71	-16.190	0.700	127.016	<b>126.200</b>		72	-16.210	0.700	118.087	<b>117.100</b>		74	-16.260	0.700	113.828	<b>114.610</b>	
72	-16.210	0.701	134.365	<b>134.420</b>		73	-16.230	0.700	126.042	<b>126.490</b>		75	-16.260	0.700	123.633	<b>124.150</b>	
73	-16.210	0.701	144.818	<b>144.610</b>		74	-16.230	0.700	134.095	<b>134.610</b>		76	-16.260	0.700	131.559	<b>131.580</b>	
74	-16.210	0.701	153.331	<b>152.670</b>		75	-16.230	0.700	144.320	<b>144.190</b>		77	-16.260	0.700	141.612	<b>141.150</b>	
75	-16.210	0.700	162.756	<b>162.930</b>		76	-16.230	0.700	152.647	<b>152.240</b>		78	-16.260	0.699	148.530	<b>149.030</b>	
76	-16.210	0.700	171.490	<b>171.210</b>		77	-16.230	0.699	161.816	<b>161.930</b>		79	-16.260	0.699	158.779	<b>158.630</b>	
77	-16.210	0.699	181.013	<b>181.460</b>		78	-16.230	0.699	170.363	<b>170.360</b>		80	-16.260	0.699	167.196	<b>166.550</b>	
78	-16.210	0.699	189.958	<b>189.920</b>		79	-16.230	0.698	179.628	<b>180.000</b>		81	-16.260	0.698	176.261	<b>176.100</b>	
79	-16.210	0.698	199.567	<b>200.080</b>		80	-16.230	0.698	188.384	<b>188.590</b>		82	-16.260	0.698	184.885	<b>184.320</b>	
80	-16.210	0.698	208.711	<b>208.730</b>		81	-16.230	0.697	197.735	<b>198.280</b>		83	-16.260	0.697	196.313	<b>195.990</b>	
81	-16.210	0.698	219.939	<b>219.080</b>		82	-16.230	0.697	206.690	<b>207.170</b>							
82	-16.210	0.697	227.729	<b>228.010</b>		83	-16.230	0.696	218.406	<b>218.730</b>							
83	-16.210	0.696	239.780	<b>240.270</b>													
31	22	-16.560	0.720	28.357	<b>27.990</b>	32	23	-16.580	0.720	27.655	<b>27.500</b>	33	24	-16.600	0.720	26.756	<b>26.130</b>
23	-16.560	0.720	18.115	<b>17.520</b>		24	-16.580	0.720	14.010	<b>13.530</b>		25	-16.600	0.720	16.171	<b>15.560</b>	
24	-16.560	0.720	5.112	<b>4.660</b>		25	-16.580	0.720	4.139	<b>4.050</b>		26	-16.600	0.720	2.994	<b>2.950</b>	
25	-16.570	0.749	-3.650	-3.840		26	-16.580	0.749	-7.401	-7.580		27	-16.600	0.750	-5.556	-5.640	
26	-16.570	0.749	-15.835	-15.410		27	-16.580	0.749	-16.531	-16.370		28	-16.600	0.750	-17.924	-17.200	
27	-16.570	0.749	-24.260	-23.540		28	-16.580	0.749	-28.189	-27.530		29	-16.600	0.750	-24.413	-24.420	
28	-16.550	0.749	-34.080	-33.760		29	-16.580	0.749	-33.915	-33.790		30	-16.600	0.750	-33.380	-33.500	
29	-16.570	0.749	-40.271	-39.590		30	-16.580	0.749	-42.166	-42.140		31	-16.600	0.750	-38.896	-39.532	
30	-16.570	0.749	-47.853	-47.135		31	-16.580	0.749	-46.941	-46.921		32	-16.600	0.750	-46.839	-46.937	
31	-16.570	0.749	-51.928	-51.987		32	-16.580	0.749	-54.187	-54.316		33	-16.600	0.750	-51.419	-52.025	
32	-16.550	0.749	-56.442	-56.547		33	-16.580	0.749	-57.243	-56.478		34	-16.580	0.750	-56.248	-56.587	
33	-16.550	0.749	-58.794	-58.833		34	-16.570	0.795	-61.875	-61.607		35	-16.580	0.798	-58.926	-58.895	
34	-16.530	0.789	-61.963	-62.657		35	-16.550	0.795	-62.518	-62.674		36	-16.560	0.798	-62.564	-63.112	
35	-16.530	0.789	-63.212	-63.724		36	-16.550	0.795	-66.801	-66.979		37	-16.560	0.798	-64.302	-64.334	
36	-16.530	0.789	-66.828	-66.879		37	-16.550	0.795	-67.807	-67.101		38	-16.560	0.798	-68.278	-67.893	
37	-16.530	0.789	-67.154	-67.086		38	-16.550	0.795	-71.092	-70.562		39	-16.560	0.798	-69.074	-68.230	
38	-16.530	0.789	-69.805	-69.328		39	-16.540	0.795	-70.472	-69.907		40	-16.540	0.798	-70.611	-70.953	
39	-16.530	0.789	-69.248	-68.910		40	-16.550	0.795	-73.513	-72.586		41	-16.540	0.798	-70.486	-70.860	
40	-16.530	0.789	-70.976	-70.139		41	-16.530	0.795	-71.265	-71.298		42	-16.560	0.798	-74.027	-73.034	
41	-16.530	0.789	-69.572	-68.588		42	-16.550	0.795	-74.142	-73.422		43	-16.560	0.798	-73.058	-72.291	
42	-16.530	0.789	-70.417	-69.699		43	-16.550	0.795	-72.515	-71.857		44	-16.560	0.798	-74.223	-73.916	
43	-16.530	0.789	-68.204	-68.050		44	-16.550	0.795	-73.058	-73.213		45	-16.560	0.798	-72.427	-72.817	
44	-16.530	0.789	-68.203	-68.461		45	-16.550	0.795	-70.627	-71.213		46	-16.560	0.798	-72.734	-73.636	
45	-16.550	0.789	-66.736	-66.297		46	-16.430	0.719	-72.377	-71.862		47	-16.440	0.721	-71.961	-72.215	
46	-16.410	0.727	-65.910	-65.992		47	-16.410	0.719	-69.024	-69.527		48	-16.440	0.721	-72.877	-72.533	
47	-16.410	0.727	-63.416	-63.704		48	-16.410	0.719	-69.424	-69.535		49	-16.440	0.721	-71.049	-70.105	
48	-16.410	0.727	-63.135	-62.548		49	-16.410	0.719	-67.0								

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)								
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.					
60	-16.280	0.700	-4.079	<b>-4.470</b>		61	-16.320	0.701	-10.135	<b>-10.300</b>		62	-16.380	0.707	-15.576	<b>-15.010</b>		
61	-16.280	0.700	3.216	<b>2.610</b>		62	-16.320	0.701	-5.321	<b>-5.310</b>		63	-16.380	0.707	-8.723	<b>-8.220</b>		
62	-16.280	0.700	8.466	<b>8.320</b>		63	-16.320	0.701	1.857	<b>2.130</b>		64	-16.380	0.707	-3.837	<b>-3.050</b>		
63	-16.280	0.700	16.093	<b>15.910</b>		64	-16.320	0.701	7.042	<b>7.440</b>		65	-16.380	0.707	3.366	<b>3.800</b>		
64	-16.280	0.700	21.703	<b>21.880</b>		65	-16.320	0.701	14.551	<b>15.080</b>		66	-16.380	0.707	8.628	<b>9.270</b>		
65	-16.280	0.700	29.650	<b>29.730</b>		66	-16.320	0.701	20.094	<b>20.620</b>		67	-16.380	0.707	16.167	<b>16.180</b>		
66	-16.280	0.700	35.608	<b>36.010</b>		67	-16.320	0.701	27.922	<b>28.400</b>		68	-16.380	0.707	21.791	<b>22.010</b>		
67	-16.280	0.700	43.863	<b>43.900</b>		68	-16.320	0.701	33.809	<b>34.280</b>		69	-16.380	0.707	29.655	<b>29.440</b>		
68	-16.280	0.700	50.156	<b>50.540</b>		69	-16.320	0.701	41.944	<b>42.480</b>		70	-16.380	0.707	35.628	<b>35.720</b>		
69	-16.280	0.700	58.707	<b>58.820</b>		70	-16.320	0.701	48.165	<b>48.620</b>		71	-16.380	0.707	43.805	<b>43.520</b>		
70	-16.280	0.700	65.324	<b>65.770</b>		71	-16.320	0.701	56.596	<b>57.240</b>		72	-16.380	0.707	50.116	<b>50.190</b>		
71	-16.280	0.700	74.162	<b>74.460</b>		72	-16.320	0.701	63.137	<b>63.930</b>		73	-16.380	0.707	58.595	<b>58.630</b>		
72	-16.280	0.700	81.090	<b>81.710</b>		73	-16.300	0.701	73.955	<b>73.150</b>		74	-16.380	0.707	65.231	<b>65.390</b>		
73	-16.280	0.700	90.204	<b>90.900</b>		74	-16.300	0.701	80.826	<b>79.910</b>		75	-16.380	0.707	74.002	<b>73.790</b>		
74	-16.280	0.700	97.433	<b>98.380</b>		75	-16.300	0.701	89.839	<b>88.940</b>		76	-16.380	0.707	80.952	<b>80.880</b>		
75	-16.280	0.700	106.814	<b>107.430</b>		76	-16.300	0.701	97.010	<b>96.160</b>		77	-16.340	0.702	89.047	<b>89.300</b>		
76	-16.280	0.700	114.334	<b>114.940</b>		77	-16.320	0.701	104.109	<b>105.070</b>		78	-16.340	0.702	96.131	<b>96.140</b>		
77	-16.280	0.700	123.973	<b>123.880</b>		78	-16.320	0.701	111.549	<b>112.040</b>		79	-16.340	0.702	105.284	<b>104.490</b>		
78	-16.280	0.700	131.773	<b>131.510</b>		79	-16.320	0.701	121.066	<b>120.990</b>		80	-16.350	0.702	111.526	<b>111.590</b>		
79	-16.280	0.699	140.396	<b>140.540</b>		80	-16.320	0.701	128.785	<b>128.210</b>		81	-16.340	0.700	119.593	<b>119.930</b>		
80	-16.280	0.699	148.423	<b>148.280</b>		81	-16.320	0.700	137.256	<b>137.130</b>		82	-16.340	0.700	127.156	<b>127.340</b>		
81	-16.280	0.698	157.153	<b>157.260</b>		82	-16.320	0.700	145.201	<b>144.650</b>		83	-16.340	0.699	137.643	<b>137.810</b>		
82	-16.280	0.698	165.396	<b>165.430</b>		83	-16.320	0.699	156.030	<b>155.700</b>		84	-16.340	0.699	147.641	<b>147.270</b>		
83	-16.280	0.697	176.485	<b>176.460</b>		84	-16.320	0.698	164.987	<b>165.090</b>		85	-16.340	0.698	158.183	<b>157.900</b>		
												86	-16.340	0.698	168.343	<b>167.520</b>		
34	25	-16.600	0.701	25.537	<b>25.320</b>		35	26	-16.620	0.700	24.314	<b>24.010</b>	36	27	-16.640	0.702	23.166	<b>23.500</b>
26	-16.600	0.701	12.039	<b>11.620</b>		27	-16.620	0.700	13.749	<b>13.890</b>		28	-16.640	0.702	9.525	<b>9.910</b>		
27	-16.600	0.701	2.113	<b>2.490</b>		28	-16.620	0.700	0.702	<b>1.100</b>		29	-16.640	0.702	1.516	<b>1.630</b>		
28	-16.600	0.701	-10.339	<b>-9.690</b>		29	-16.620	0.700	-6.664	<b>-6.870</b>		30	-16.640	0.702	-8.928	<b>-9.320</b>		
29	-16.600	0.701	-17.053	-16.850		30	-16.620	0.700	-16.508	-16.490		31	-16.640	0.702	-16.082	-15.552		
30	-16.600	0.701	-26.287	-26.860		31	-16.620	0.700	-23.040	-23.570		32	-16.640	0.702	-25.624	-25.626		
31	-16.600	0.700	-32.188	-33.020		32	-16.640	0.760	-32.829	-32.530		33	-16.630	0.652	-31.660	-32.140		
32	-16.620	0.700	-41.863	-41.660		33	-16.640	0.760	-38.842	-38.791		34	-16.630	0.652	-40.122	-41.100		
33	-16.600	0.700	-45.642	-46.580		34	-16.620	0.760	-45.762	-46.259		35	-16.630	0.652	-45.524	-46.327		
34	-16.620	0.700	-54.520	-54.189		35	-16.620	0.760	-50.795	-51.426		36	-16.630	0.652	-53.296	-53.941		
35	-16.600	0.700	-56.775	-56.435		36	-16.620	0.760	-57.299	-56.502		37	-16.630	0.652	-57.423	-56.552		
36	-16.600	0.700	-62.775	-61.930		37	-16.600	0.760	-59.208	-59.062		38	-16.610	0.652	-62.409	-62.332		
37	-16.570	0.797	-62.739	-63.147		38	-16.580	0.799	-62.966	-63.646		39	-16.610	0.799	-64.774	-64.324		
38	-16.570	0.797	-67.404	-67.868		39	-16.580	0.799	-65.188	-65.288		40	-16.590	0.799	-68.289	-69.014		
39	-16.570	0.797	-68.913	-68.227		40	-16.580	0.799	-69.540	-69.107		41	-16.590	0.799	-70.257	-70.169		
40	-16.570	0.797	-72.590	-72.213		41	-16.580	0.799	-70.827	-70.289		42	-16.590	0.799	-74.294	-74.178		
41	-16.550	0.797	-71.685	-72.169		42	-16.580	0.799	-74.214	-73.235		43	-16.590	0.799	-75.355	-74.442		
42	-16.570	0.797	-75.916	-75.252		43	-16.560	0.799	-73.046	-73.452		44	-16.590	0.799	-78.455	-77.893		
43	-16.550	0.797	-74.097	-74.599		44	-16.560	0.799	-75.488	-76.068		45	-16.590	0.799	-78.645	-77.696		
44	-16.570	0.797	-77.461	-77.026		45	-16.580	0.799	-76.603	-75.889		46	-16.590	0.799	-80.848	-80.592		
45	-16.570	0.797	-76.345	-75.917		46	-16.580	0.799	-78.179	-77.977		47	-16.590	0.799	-80.205	-79.991		
46	-16.570	0.797	-77.302	-77.759		47	-16.480	0.722	-77.025	-77.499		48	-16.590	0.799	-81.547	-82.439		
47	-16.460	0.721	-76.140	-76.389		48	-16.480	0.722	-78.987	-79.014		49	-16.490	0.719	-81.482	-81.480		
48	-16.460	0.721	-77.578	-77.594		49	-16.480	0.722	-78.238	-77.783		50	-16.490	0.719	-83.355	-83.266		
49	-16.460	0.721	-76.289	-75.341		50	-16.480	0.722	-79.561	-78.575		51	-16.490	0.719	-80.324	-80.710		
50	-16.440	0.721	-75.420	-75.948		51	-16.480	0.722	-75.945	-75.632		52	-16.490	0.719	-79.351	-79.691		
51	-16.460	0.721	-72.940	-72.414		52	-16.480	0.722	-74.408	-73.892		53	-16.490	0.719	-75.825	-76.536		
52	-16.460	0.721	-70.886	-70.503		53	-16.480	0.722	-70.301	-70.716		54	-16.490	0.719	-74.325	-74.959		
53	-16.460	0.721	-66.249	-66.426		54	-16.480	0.722	-68.242	-68.274		55	-16.490	0.719	-70.321	-70.974		
54	-16.460	0.721	-63.687	-63.884		55	-16.480	0.722	-63.662	-64.000		56	-16.490	0.719	-68.316	-68.769		
55	-16.460	0.721	-58.591	-58.992		56	-16.480	0.722	-61.102	-61.107		57	-16.490	0.719	-63.853	-64.136		
56	-16.460	0.721	-55.540	-55.800		57	-16.480	0.722	-56.067	-56.233		58	-16.490	0.719	-61.361	-61.348		
57	-16.460	0.721	-50.002	-50.580		58	-16.480	0.722	-53.024	-52.890		59	-16.490	0.719	-56.454	-56.159		
58	-16.460	0.721	-46.481	-46.724		59	-16.480	0.722	-47.552	-47.650		60	-16.490	0.719	-53.493	-53.082		
59	-16.460	0.721	-40.518	-40.860		60	-16.480	0.722	-44.044	-43.850		61	-16.490	0.719	-48.160	-47.423		
60	-16.460	0.721	-36.543	-36.803		61	-16.490	0.722	-39.109	-38.210		62	-16.490	0.719	-44.747	-44.120		
61	-16.370	0.701	-30.695	-30.460		62	-16.480	0.722	-34.193	-34.000		63	-16.490	0.719	-39.004	-38.400		
62	-16.370	0.701	-26.803	<b>-27.030</b>		63	-16.400	0.707	-2									

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
74	-16.370	0.703	48.441	<b>48.530</b>		75	-16.380	0.703	43.894	<b>43.910</b>		76	-16.440	0.709	35.275	<b>34.680</b>	
75	-16.370	0.703	56.671	<b>57.080</b>		76	-16.370	0.703	51.033	<b>50.170</b>		77	-16.490	0.713	41.216	<b>42.100</b>	
76	-16.370	0.703	63.095	<b>63.500</b>		77	-16.390	0.704	57.877	<b>57.880</b>		78	-16.490	0.713	47.475	<b>47.810</b>	
77	-16.370	0.703	71.611	<b>72.140</b>		78	-16.390	0.704	64.249	<b>64.270</b>		79	-16.490	0.713	55.781	<b>55.740</b>	
78	-16.110	0.675	78.466	<b>78.360</b>		79	-16.400	0.704	71.533	<b>71.920</b>		80	-16.140	0.672	61.318	<b>61.410</b>	
79	-16.110	0.675	86.380	<b>86.640</b>		80	-16.400	0.704	78.199	<b>78.260</b>		81	-16.140	0.672	68.627	<b>68.750</b>	
80	-16.110	0.675	92.514	<b>93.150</b>		81	-16.390	0.702	85.795	<b>85.760</b>		82	-16.130	0.672	75.387	<b>74.630</b>	
81	-16.110	0.675	100.663	<b>101.380</b>		82	-16.400	0.702	91.512	<b>92.300</b>		83	-16.130	0.672	85.145	<b>84.580</b>	
82	-16.100	0.675	108.214	<b>108.100</b>		83	-16.380	0.700	102.539	<b>102.240</b>		84	-16.140	0.672	91.968	<b>92.690</b>	
83	-16.110	0.675	117.656	<b>118.530</b>		84	-16.380	0.700	111.820	<b>111.000</b>		85	-16.150	0.674	103.061	<b>103.020</b>	
84	-16.110	0.675	126.495	<b>127.340</b>		85	-16.400	0.700	120.639	<b>121.260</b>		86	-16.150	0.674	111.349	<b>111.590</b>	
85	-16.110	0.676	138.573	<b>138.120</b>		86	-16.400	0.700	130.124	<b>130.370</b>		87	-16.150	0.674	121.528	<b>121.940</b>	
86	-16.110	0.676	147.647	<b>147.190</b>		87	-16.400	0.699	140.141	<b>140.730</b>		88	-16.150	0.674	130.013	<b>130.520</b>	
37	29	-16.660	0.702	13.116	<b>13.050</b>	38	30	-16.680	0.702	10.831	<b>10.970</b>	39	31	-16.700	0.702	13.968	<b>13.590</b>
30	-16.660	0.702	2.064	<b>1.920</b>		31	-16.680	0.702	2.448	<b>2.380</b>		32	-16.700	0.702	2.686	<b>2.530</b>	
31	-16.660	0.702	-5.724	<b>-6.140</b>		32	-16.680	0.702	-8.250	<b>-8.560</b>		33	-16.700	0.702	-5.457	<b>-5.530</b>	
32	-16.660	0.702	-15.862	<b>-16.130</b>		33	-16.680	0.702	-15.786	<b>-15.940</b>		34	-16.700	0.702	-15.838	<b>-15.810</b>	
33	-16.660	0.702	-22.814	<b>-23.340</b>		34	-16.680	0.702	-25.595	<b>-25.870</b>		35	-16.700	0.702	-23.154	<b>-23.060</b>	
34	-16.660	0.740	-31.763	-32.290		35	-16.670	0.735	-31.322	-31.950		36	-16.700	0.702	-32.671	-31.820	
35	-16.650	0.740	-37.352	-38.330		36	-16.670	0.735	-40.403	-40.827		37	-16.680	0.747	-37.500	-38.250	
36	-16.650	0.740	-45.859	-46.012		37	-16.670	0.735	-46.419	-46.619		38	-16.680	0.747	-46.285	-46.439	
37	-16.650	0.740	-51.273	-51.916		38	-16.670	0.735	-54.584	-54.248		39	-16.680	0.747	-52.077	-52.173	
38	-16.650	0.740	-58.128	-57.219		39	-16.650	0.735	-57.499	-57.803		40	-16.660	0.747	-57.642	-57.803	
39	-16.630	0.740	-60.452	-60.479		40	-16.630	0.742	-62.474	-63.174		41	-16.660	0.805	-61.624	-61.148	
40	-16.620	0.799	-65.173	-64.831		41	-16.630	0.742	-66.071	-65.480		42	-16.640	0.805	-66.025	-65.713	
41	-16.600	0.799	-66.302	-66.935		42	-16.610	0.742	-70.154	-70.311		43	-16.620	0.805	-67.454	-68.064	
42	-16.600	0.799	-71.009	-70.803		43	-16.600	0.748	-72.024	-71.528		44	-16.590	0.730	-71.468	-72.206	
43	-16.600	0.799	-72.756	-72.175		44	-16.580	0.748	-75.184	-76.010		45	-16.590	0.730	-74.169	-73.894	
44	-16.580	0.799	-74.893	-75.457		45	-16.580	0.748	-77.154	-76.798		46	-16.570	0.730	-77.186	-77.842	
45	-16.580	0.799	-75.737	-76.188		46	-16.580	0.748	-81.145	-80.650		47	-16.570	0.730	-79.171	-79.283	
46	-16.580	0.799	-78.565	-79.071		47	-16.560	0.748	-80.685	-81.103		48	-16.570	0.730	-83.144	-83.018	
47	-16.600	0.799	-80.242	-79.759		48	-16.560	0.748	-83.900	-84.523		49	-16.570	0.730	-84.460	-84.299	
48	-16.600	0.799	-82.217	-82.167		49	-16.560	0.748	-84.421	-84.880		50	-16.570	0.730	-87.740	-87.711	
49	-16.510	0.720	-81.970	-82.747		50	-16.580	0.748	-88.670	-87.922		51	-16.570	0.730	-86.199	-86.497	
50	-16.510	0.720	-84.348	-84.598		51	-16.580	0.748	-86.308	-86.209		52	-16.570	0.730	-86.630	-86.351	
51	-16.510	0.720	-81.855	-82.609		52	-16.580	0.748	-85.923	-85.951		53	-16.570	0.730	-84.537	-84.816	
52	-16.510	0.720	-81.392	-81.712		53	-16.580	0.748	-82.982	-83.652		54	-16.570	0.730	-84.389	-84.227	
53	-16.510	0.720	-78.388	-79.366		54	-16.580	0.748	-81.990	-82.867		55	-16.570	0.730	-81.764	-82.351	
54	-16.510	0.720	-77.387	-77.745		55	-16.570	0.734	-80.258	-80.086		56	-16.570	0.730	-81.059	-81.208	
55	-16.510	0.720	-73.893	-74.772		56	-16.570	0.734	-78.972	-78.846		57	-16.570	0.730	-77.922	-78.330	
56	-16.510	0.720	-72.373	-72.620		57	-16.570	0.734	-75.240	-75.117		58	-16.570	0.730	-76.680	-76.115	
57	-16.510	0.720	-68.406	-68.563		58	-16.570	0.734	-73.420	-72.918		59	-16.570	0.730	-73.050	-72.289	
58	-16.510	0.720	-66.388	-65.890		59	-16.570	0.734	-69.197	-68.581		60	-16.570	0.730	-71.291	-70.644	
59	-16.510	0.720	-61.966	-61.354		60	-16.570	0.734	-66.863	-66.422		61	-16.570	0.730	-67.186	-67.321	
60	-16.510	0.720	-59.467	-58.519		61	-16.570	0.734	-62.167	-62.519		62	-16.570	0.730	-64.929	-65.055	
61	-16.510	0.720	-54.608	-54.369		62	-16.570	0.734	-59.337	-59.818		63	-16.570	0.730	-60.366	-61.173	
62	-16.510	0.720	-51.646	-51.121		63	-16.590	0.734	-56.207	-55.325		64	-16.570	0.730	-57.629	-58.457	
63	-16.510	0.720	-46.364	-46.266		64	-16.610	0.742	-51.626	-52.160		65	-16.590	0.730	-54.705	-54.080	
64	-16.510	0.720	-42.956	-42.567		65	-16.630	0.742	-47.902	-47.280		66	-16.590	0.730	-51.525	-50.570	
65	-16.510	0.720	-37.267	-37.250		66	-16.630	0.742	-43.952	-43.760		67	-16.590	0.730	-46.115	-45.790	
66	-16.430	0.705	-32.632	-33.160		67	-16.630	0.742	-37.753	-38.190		68	-16.590	0.730	-42.488	-41.970	
67	-16.430	0.705	-26.934	-27.450		68	-16.450	0.705	-33.813	-34.300		69	-16.590	0.730	-36.667	-36.780	
68	-16.450	0.705	-25.177	<b>-24.910</b>		69	-16.450	0.705	-28.190	-28.250		70	-16.480	0.708	-32.713	-32.480	
69	-16.450	0.705	-19.143	<b>-18.950</b>		70	-16.470	0.705	-26.526	<b>-26.030</b>		71	-16.490	0.708	-28.189	<b>-28.060</b>	
70	-16.450	0.705	-14.926	<b>-14.180</b>		71	-16.460	0.705	-19.481	<b>-19.420</b>		72	-16.510	0.712	-24.127	<b>-23.420</b>	
71	-16.450	0.705	-8.548	<b>-7.620</b>		72	-16.470	0.708	-14.461	<b>-14.680</b>		73	-16.500	0.712	-16.929	<b>-16.930</b>	
72	-16.430	0.705	-1.786	<b>-2.240</b>		73	-16.470	0.708	-8.064	<b>-7.750</b>		74	-16.490	0.712	-11.448	<b>-12.120</b>	
73	-16.450	0.708	4.911	<b>4.950</b>		74	-16.470	0.708	-3.424	<b>-2.690</b>		75	-16.490	0.712	-5.005	<b>-6.000</b>	
74	-16.450	0.708	9.953	<b>10.540</b>		75	-16.470	0.708	3.305	<b>3.840</b>		76	-16.500	0.712	-1.429	<b>-1.450</b>	
75	-16.450	0.708	17.093	<b>17.430</b>		76	-16.470	0.708	8.297	<b>8.780</b>		77	-16.510	0.712	4.177	<b>4.590</b>	
76	-16.450	0.708	22.480	<b>22.790</b>		77	-16.470	0.708	15.347	<b>15.420</b>		78	-16.510	0.712	9.235	<b>9.550</b>	
77	-16.450	0.708	29.934	<b>29.560</b>		78	-16.470	0.708	20.680	<b>20.450</b>		79	-16.510	0.712	16.315	<b>15.930</b>	
78	-16.450	0.708	35.655	<b>35.290</b>		79	-										

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
89	-16.170	0.674	124.468	<b>124.620</b>		90	-16.190	0.674	115.525	<b>115.020</b>		91	-16.220	0.674	108.866	<b>109.750</b>	
90	-16.170	0.674	132.802	<b>133.330</b>		91	-16.190	0.674	125.358	<b>125.840</b>		92	-16.210	0.674	118.032	<b>118.140</b>	
91	-16.160	0.674	144.253	<b>144.020</b>		92	-16.190	0.674	133.559	<b>133.480</b>		93	-16.220	0.674	126.377	<b>127.290</b>	
						93	-16.190	0.674	143.566	<b>143.260</b>		94	-16.210	0.674	135.760	<b>135.460</b>	
											95	-16.220	0.674	144.261	<b>144.950</b>		
40	32	-16.720	0.702	11.513	<b>11.180</b>	41	33	-16.750	0.708	13.831	<b>14.240</b>	42	35	-16.740	0.711	4.564	<b>3.680</b>
	33	-16.720	0.702	2.797	<b>2.850</b>		34	-16.730	0.708	3.769	<b>3.220</b>		36	-16.740	0.711	-6.626	<b>-7.130</b>
	34	-16.720	0.702	-8.125	<b>-8.030</b>		35	-16.730	0.708	-4.741	<b>-4.930</b>		37	-16.740	0.711	-14.867	<b>-14.890</b>
	35	-16.720	0.702	-16.003	<b>-15.440</b>		36	-16.730	0.708	-15.381	<b>-15.330</b>		38	-16.740	0.711	-25.173	<b>-24.990</b>
	36	-16.720	0.702	-26.052	<b>-25.750</b>		37	-16.730	0.708	-23.056	<b>-22.790</b>		39	-16.720	0.711	-30.974	-31.460
	37	-16.700	0.702	-31.585	-31.600		38	-16.710	0.708	-31.250	-31.650		40	-16.710	0.711	-39.591	-40.370
	38	-16.700	0.760	-40.554	-40.850		39	-16.710	0.708	-38.104	-38.420		41	-16.720	0.748	-46.983	-46.340
	39	-16.700	0.760	-46.985	-46.770		40	-16.700	0.747	-46.170	-46.360		42	-16.700	0.748	-53.967	-54.170
	40	-16.700	0.760	-55.437	-54.760		41	-16.700	0.747	-52.290	-51.810		43	-16.690	0.748	-58.262	-57.510
	41	-16.660	0.747	-57.020	-57.524		42	-16.680	0.747	-58.041	-57.613		44	-16.670	0.748	-63.620	-64.111
	42	-16.660	0.747	-63.826	-63.614		43	-16.670	0.746	-61.776	-61.194		45	-16.660	0.788	-66.759	-66.885
	43	-16.640	0.805	-65.679	-65.912		44	-16.650	0.746	-66.610	-66.280		46	-16.660	0.788	-72.770	-72.687
	44	-16.640	0.805	-71.311	-71.422		45	-16.640	0.794	-68.881	-69.134		47	-16.640	0.788	-74.262	-75.015
	45	-16.640	0.805	-74.091	-73.175		46	-16.640	0.794	-74.255	-73.874		48	-16.660	0.788	-81.157	-80.173
	46	-16.640	0.805	-78.763	-77.969		47	-16.640	0.794	-76.866	-76.172		49	-16.640	0.788	-81.768	-82.209
	47	-16.590	0.730	-79.077	-79.347		48	-16.640	0.794	-81.338	-80.626		50	-16.640	0.788	-86.002	-86.809
	48	-16.590	0.730	-83.566	-83.629		49	-16.640	0.794	-83.103	-82.662		51	-16.660	0.788	-87.300	-86.807
	49	-16.590	0.730	-85.413	-84.878		50	-16.640	0.794	-86.708	-86.638		52	-16.660	0.788	-88.591	-88.414
	50	-16.590	0.730	-89.199	-88.773		51	-16.640	0.794	-85.479	-86.453		53	-16.660	0.788	-87.333	-87.712
	51	-16.590	0.730	-88.197	-87.896		52	-16.590	0.728	-87.021	-87.213		54	-16.660	0.788	-87.889	-88.795
	52	-16.590	0.730	-89.141	-88.459		53	-16.590	0.728	-86.007	-86.369		55	-16.600	0.728	-86.919	-87.545
	53	-16.590	0.730	-87.576	-87.122		54	-16.590	0.728	-86.893	-86.786		56	-16.600	0.728	-87.711	-88.116
	54	-16.590	0.730	-87.932	-87.269		55	-16.590	0.728	-85.330	-85.603		57	-16.600	0.728	-86.111	-85.970
	55	-16.590	0.730	-85.825	-85.660		56	-16.590	0.728	-85.645	-85.603		58	-16.600	0.728	-86.344	-86.193
	56	-16.590	0.730	-85.615	-85.439		57	-16.590	0.728	-83.554	-83.525		59	-16.600	0.728	-84.226	-83.520
	57	-16.590	0.730	-82.986	-82.937		58	-16.590	0.728	-83.318	-82.335		60	-16.600	0.728	-83.920	-83.561
	58	-16.590	0.730	-82.230	-81.282		59	-16.590	0.728	-80.719	-79.791		61	-16.600	0.728	-81.303	-80.954
	59	-16.570	0.730	-77.119	-77.617		60	-16.570	0.728	-77.932	-78.891		62	-16.600	0.728	-80.478	-80.344
	60	-16.570	0.730	-75.818	-76.373		61	-16.590	0.728	-76.862	-76.298		63	-16.600	0.728	-77.380	-77.331
	61	-16.570	0.730	-72.182	-73.161		62	-16.590	0.728	-75.583	-75.029		64	-16.600	0.728	-76.053	-76.128
	62	-16.590	0.730	-72.415	-71.581		63	-16.590	0.728	-72.022	-71.811		65	-16.600	0.728	-72.491	-72.545
	63	-16.590	0.730	-68.332	-67.809		64	-16.590	0.728	-70.250	-69.916		66	-16.600	0.728	-70.680	-70.749
	64	-16.590	0.730	-66.056	-65.718		65	-16.590	0.728	-66.232	-66.203		67	-16.600	0.728	-66.671	-66.659
	65	-16.590	0.730	-61.524	-61.458		66	-16.650	0.746	-63.693	-63.724		68	-16.680	0.748	-65.277	-64.536
	66	-16.590	0.730	-58.777	-58.750		67	-16.650	0.746	-58.801	-59.545		69	-16.670	0.748	-59.246	-59.940
	67	-16.660	0.747	-53.907	-54.020		68	-16.660	0.746	-56.735	-56.690		70	-16.690	0.748	-58.252	-57.480
	68	-16.660	0.747	-50.275	-50.950		69	-16.670	0.746	-52.500	-52.310		71	-16.690	0.748	-52.892	-52.650
	69	-16.680	0.747	-46.626	-45.730		70	-16.680	0.747	-49.508	-48.960		72	-16.700	0.748	-50.352	-49.680
	70	-16.680	0.747	-42.549	-42.220		71	-16.680	0.747	-43.726	-44.070		73	-16.700	0.748	-44.569	-44.550
	71	-16.490	0.708	-36.636	-36.480		72	-16.680	0.747	-39.640	-40.210		74	-16.520	0.709	-41.719	-41.210
	72	-16.490	0.708	-33.168	-32.420		73	-16.490	0.708	-34.164	-34.960		75	-16.520	0.709	-36.589	-35.689
	73	-16.510	0.714	-26.257	-26.340		74	-16.490	0.708	-30.709	-30.880		76	-16.510	0.709	-31.951	-32.370
	74	-16.530	0.714	-24.515	<b>-23.940</b>		75	-16.490	0.708	-25.192	-25.230		77	-16.510	0.709	-26.459	-26.580
	75	-16.530	0.714	-18.438	<b>-18.290</b>		76	-16.510	0.708	-23.705	<b>-23.050</b>		78	-16.530	0.709	-25.023	<b>-24.680</b>
	76	-16.530	0.714	-14.062	<b>-14.030</b>		77	-16.510	0.708	-17.866	<b>-17.280</b>		79	-16.530	0.709	-19.212	<b>-19.140</b>
	77	-16.530	0.714	-7.642	<b>-8.020</b>		78	-16.510	0.708	-13.697	<b>-12.960</b>		80	-16.530	0.709	-15.039	<b>-15.380</b>
	78	-16.490	0.708	-2.805	<b>-3.560</b>		79	-16.510	0.708	-7.527	<b>-7.250</b>		81	-16.520	0.705	-10.803	<b>-10.090</b>
	79	-16.500	0.708	2.582	<b>2.630</b>		80	-16.510	0.708	-3.009	<b>-2.780</b>		82	-16.520	0.705	-6.418	<b>-6.420</b>
	80	-16.510	0.708	6.280	<b>7.190</b>		81	-16.500	0.705	2.219	<b>2.550</b>		83	-16.530	0.705	0.784	<b>1.770</b>
	81	-16.510	0.708	13.151	<b>13.180</b>		82	-16.500	0.705	6.975	<b>6.870</b>		84	-16.520	0.705	8.856	<b>8.020</b>
	82	-16.530	0.709	16.845	<b>17.560</b>		83	-16.510	0.705	14.576	<b>15.120</b>		85	-16.530	0.705	16.296	<b>16.540</b>
	83	-16.530	0.709	26.190	<b>26.340</b>		84	-16.510	0.705	21.763	<b>21.900</b>		86	-16.530	0.705	23.383	<b>23.260</b>
	84	-16.520	0.707	33.138	<b>33.210</b>		85	-16.510	0.704	29.871	<b>30.470</b>		87	-16.530	0.705	32.333	<b>32.040</b>
	85	-16.530	0.707	41.413	<b>42.370</b>		86	-16.510	0.704	37.289	<b>37.760</b>		88	-16.530	0.705	39.687	<b>38.940</b>
	86	-16.530	0.707	49.289	<b>49.690</b>		87	-16.510	0.704	46.577	<b>46.500</b>		89	-16.540	0.705	47.571	<b>47.710</b>
	87	-16.530	0.707	59.044	<b>59.000</b>		88	-16.260	0.674	54.443	<b>53.910</b>		90	-16.280	0.674	55.492	<b>54.790</b>
	88	-16.240	0.674	67.240	<b>66.370</b>		89	-16.260	0.674	63.033	<b>62.690</b>		91	-16.280	0.674	63.944	<b>63.930</b> </

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)						
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
37	-16.750	0.704	-3.797	<b>-4.240</b>		38	-16.770	0.704	-6.562	<b>-6.540</b>		39	-16.760	0.674	-2.793	<b>-3.530</b>
38	-16.750	0.704	-14.582	<b>-14.470</b>		39	-16.750	0.709	-13.264	<b>-14.010</b>		40	-16.760	0.674	-13.502	<b>-13.970</b>
39	-16.730	0.709	-20.808	<b>-21.760</b>		40	-16.750	0.709	-23.724	<b>-24.100</b>		41	-16.760	0.674	-21.490	<b>-21.400</b>
40	-16.730	0.709	-30.761	-31.320		41	-16.730	0.709	-29.699	-30.630		42	-16.740	0.674	-29.719	<b>-30.610</b>
41	-16.730	0.709	-37.911	-37.700		42	-16.730	0.709	-39.313	-39.770		43	-16.740	0.674	-37.002	-36.860
42	-16.710	0.755	-45.293	-45.850		43	-16.730	0.748	-46.156	-45.730		44	-16.740	0.700	-46.212	-45.651
43	-16.710	0.755	-51.715	-51.570		44	-16.730	0.748	-55.019	-54.340		45	-16.720	0.700	-51.063	-51.634
44	-16.700	0.748	-58.490	-57.690		45	-16.710	0.747	-58.714	-58.369		46	-16.720	0.746	-58.929	-58.570
45	-16.680	0.748	-61.635	-61.670		46	-16.690	0.747	-64.240	-64.884		47	-16.700	0.746	-62.312	-62.999
46	-16.680	0.787	-68.121	-67.395		47	-16.680	0.788	-67.675	-68.240		48	-16.690	0.787	-68.114	-69.012
47	-16.660	0.787	-70.225	-70.725		48	-16.680	0.788	-73.954	-74.301		49	-16.690	0.787	-72.339	-72.908
48	-16.660	0.787	-75.930	-75.987		49	-16.680	0.788	-77.575	-77.217		50	-16.690	0.787	-78.320	-78.341
49	-16.660	0.787	-78.965	-78.926		50	-16.680	0.788	-82.974	-82.584		51	-16.690	0.787	-79.589	-79.688
50	-16.660	0.787	-83.801	-83.606		51	-16.680	0.788	-83.632	-83.458		52	-16.690	0.787	-82.625	-82.598
51	-16.660	0.787	-83.870	-84.158		52	-16.680	0.788	-86.079	-86.080		53	-16.690	0.787	-83.149	-83.175
52	-16.660	0.787	-85.751	-86.021		53	-16.680	0.788	-86.000	-86.121		54	-16.690	0.787	-85.421	-85.585
53	-16.660	0.787	-85.096	-85.822		54	-16.680	0.788	-87.691	-88.225		55	-16.690	0.787	-85.227	-85.591
54	-16.660	0.787	-86.233	-87.224		55	-16.680	0.788	-86.903	-87.625		56	-16.690	0.787	-86.764	-87.412
55	-16.610	0.728	-85.656	-86.432		56	-16.700	0.788	-89.865	-89.227		57	-16.690	0.787	-85.879	-86.783
56	-16.610	0.728	-86.940	-87.328		57	-16.630	0.728	-87.960	-87.958		58	-16.630	0.727	-87.048	-88.032
57	-16.610	0.728	-85.843	-86.021		58	-16.620	0.728	-88.132	-89.106		59	-16.630	0.727	-86.404	-86.959
58	-16.610	0.728	-86.559	-86.345		59	-16.620	0.728	-86.984	-87.267		60	-16.630	0.727	-87.516	-87.851
59	-16.610	0.728	-84.935	-84.573		60	-16.620	0.728	-87.609	-88.096		61	-16.630	0.727	-86.349	-86.363
60	-16.610	0.728	-85.103	-84.604		61	-16.620	0.728	-85.945	-85.935		62	-16.630	0.727	-86.918	-86.864
61	-16.610	0.728	-82.971	-82.499		62	-16.620	0.728	-86.035	-86.323		63	-16.630	0.727	-85.247	-85.031
62	-16.610	0.728	-82.612	-82.290		63	-16.620	0.728	-83.873	-83.863		64	-16.630	0.727	-85.293	-84.999
63	-16.610	0.728	-79.990	-79.776		64	-16.620	0.728	-83.445	-83.661		65	-16.630	0.727	-83.135	-82.829
64	-16.610	0.728	-79.121	-78.750		65	-16.620	0.728	-80.803	-80.738		66	-16.630	0.727	-82.676	-82.304
65	-16.610	0.728	-76.027	-75.923		66	-16.620	0.728	-79.876	-80.073		67	-16.630	0.727	-80.048	-79.731
66	-16.610	0.728	-74.666	-74.283		67	-16.620	0.728	-76.770	-76.785		68	-16.630	0.727	-79.101	-78.767
67	-16.610	0.728	-71.115	-71.035		68	-16.620	0.728	-75.361	-75.631		69	-16.630	0.727	-76.019	-75.710
68	-16.610	0.728	-69.280	-69.025		69	-16.620	0.728	-71.807	-71.868		70	-16.630	0.727	-74.601	-74.229
69	-16.610	0.728	-65.289	-65.259		70	-16.620	0.728	-69.933	-70.221		71	-16.630	0.727	-71.080	-70.736
70	-16.710	0.755	-62.940	-62.812		71	-16.620	0.728	-65.947	-66.105		72	-16.630	0.727	-69.207	-68.897
71	-16.710	0.755	-57.853	-58.600		72	-16.700	0.747	-64.516	-64.069		73	-16.630	0.727	-65.262	-64.887
72	-16.730	0.755	-56.723	-55.796		73	-16.700	0.747	-59.643	-59.490		74	-16.630	0.727	-62.949	-62.823
73	-16.700	0.748	-51.331	-51.214		74	-16.710	0.747	-57.581	-57.000		75	-16.710	0.746	-58.819	-58.620
74	-16.700	0.748	-47.641	-48.140		75	-16.720	0.748	-52.938	-52.080		76	-16.720	0.746	-56.800	-56.250
75	-16.720	0.748	-44.239	-43.290		76	-16.730	0.748	-50.437	-49.720		77	-16.720	0.746	-51.556	-51.880
76	-16.540	0.711	-40.676	-40.170		77	-16.560	0.712	-45.281	-44.620		78	-16.560	0.710	-49.058	-49.190
77	-16.540	0.711	-35.543	-35.000		78	-16.560	0.712	-42.143	-41.780		79	-16.570	0.710	-45.626	-44.710
78	-16.540	0.711	-32.049	-31.540		79	-16.560	0.712	-37.023	-36.550		80	-16.570	0.710	-42.559	-41.830
79	-16.540	0.711	-26.567	-26.305		80	-16.550	0.710	-33.608	-33.590		81	-16.550	0.706	-37.660	-37.200
80	-16.550	0.711	-23.937	<b>-24.020</b>		81	-16.550	0.710	-28.200	-28.370		82	-16.550	0.706	-34.340	-33.730
81	-16.540	0.707	-19.855	<b>-19.350</b>		82	-16.560	0.707	-27.844	<b>-27.720</b>		83	-16.560	0.706	-28.289	-27.340
82	-16.540	0.707	-15.781	<b>-15.740</b>		83	-16.560	0.707	-20.111	<b>-20.120</b>		84	-16.570	0.706	-23.846	<b>-23.250</b>
83	-16.540	0.707	-7.658	<b>-8.150</b>		84	-16.570	0.707	-15.259	<b>-14.520</b>		85	-16.570	0.706	-16.256	<b>-15.800</b>
84	-16.550	0.707	-2.420	<b>-1.950</b>		85	-16.570	0.707	-7.262	<b>-6.520</b>		86	-16.570	0.706	-10.238	<b>-9.760</b>
85	-16.550	0.707	5.961	<b>6.020</b>		86	-16.570	0.707	-0.849	<b>-0.430</b>		87	-16.570	0.706	-2.376	<b>-2.110</b>
86	-16.550	0.707	12.743	<b>12.680</b>		87	-16.570	0.707	7.414	<b>7.770</b>		88	-16.570	0.706	3.928	<b>4.170</b>
87	-16.550	0.707	21.383	<b>20.920</b>		88	-16.570	0.707	14.107	<b>14.120</b>		89	-16.570	0.706	12.053	<b>12.180</b>
88	-16.550	0.707	28.440	<b>27.780</b>		89	-16.570	0.707	22.629	<b>22.690</b>		90	-16.570	0.706	18.636	<b>18.380</b>
89	-16.300	0.674	37.021	<b>36.140</b>		90	-16.570	0.707	29.596	<b>29.130</b>		91	-16.570	0.706	27.016	<b>26.490</b>
90	-16.300	0.674	43.332	<b>43.280</b>		91	-16.320	0.674	37.913	<b>37.540</b>		92	-16.590	0.707	32.177	<b>32.850</b>
91	-16.300	0.674	51.437	<b>51.470</b>		92	-16.320	0.674	44.125	<b>43.830</b>		93	-16.590	0.707	40.825	<b>40.470</b>
92	-16.300	0.674	57.974	<b>58.240</b>		93	-16.320	0.674	52.104	<b>52.070</b>		94	-16.350	0.676	47.100	<b>46.880</b>
93	-16.300	0.674	66.283	<b>66.510</b>		94	-16.320	0.674	58.541	<b>58.580</b>		95	-16.350	0.676	55.014	<b>54.900</b>
94	-16.300	0.674	73.039	<b>73.560</b>		95	-16.320	0.674	66.723	<b>67.240</b>		96	-16.350	0.676	61.415	<b>61.630</b>
95	-16.300	0.674	81.546	<b>82.150</b>		96	-16.320	0.674	73.378	<b>73.800</b>		97	-16.350	0.676	69.534	<b>69.750</b>
96	-16.300	0.674	88.516	<b>89.420</b>		97	-16.320	0.674	81.757	<b>82.420</b>		98	-16.350	0.676	76.153	<b>76.650</b>
97	-16.300	0.674	97.216	<b>98.010</b>		98	-16.320	0.674	88.625	<b>89.410</b>		99	-16.350	0.676	84.471	<b>84.820</b>
98	-16.290	0.674	105.802	<b>105.410</b>		99	-16.320	0.674	97.196	<b>98.100</b>		100	-16.350	0.676	91.303	<b>91.920</b>
99	-16.300	0.674	113.279	<b>114.090</b>		100	-16.320	0.674	104.270	<b>105.210</b>		101	-16.350	0.676	99.815	<b>10</b>

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)						
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
44	-16.760	0.689	-40.012	-39.710		45	-16.770	0.690	-37.661	-37.530		46	-16.780	0.695	-39.723	-40.440
45	-16.760	0.710	-47.106	-46.170		46	-16.760	0.746	-46.138	-46.400		47	-16.770	0.745	-46.099	-47.056
46	-16.740	0.710	-54.293	-54.779		47	-16.750	0.745	-52.160	-52.402		48	-16.770	0.745	-55.336	-55.572
47	-16.730	0.746	-59.126	-58.982		48	-16.750	0.745	-60.251	-59.906		49	-16.770	0.745	-61.387	-60.734
48	-16.730	0.746	-66.684	-66.102		49	-16.730	0.745	-63.859	-64.512		50	-16.760	0.786	-68.064	-67.636
49	-16.710	0.780	-69.521	-69.966		50	-16.720	0.780	-69.916	-70.904		51	-16.740	0.786	-69.144	-69.931
50	-16.710	0.780	-76.101	-76.183		51	-16.720	0.780	-72.403	-73.066		52	-16.740	0.786	-73.889	-74.195
51	-16.710	0.780	-78.004	-77.806		52	-16.720	0.780	-76.624	-76.712		53	-16.740	0.786	-76.156	-75.837
52	-16.710	0.780	-81.662	-81.321		53	-16.720	0.780	-78.364	-78.138		54	-16.740	0.786	-80.113	-79.660
53	-16.710	0.780	-82.828	-82.183		54	-16.720	0.780	-81.819	-81.334		55	-16.740	0.786	-81.636	-80.652
54	-16.710	0.780	-85.729	-85.213		55	-16.720	0.780	-82.838	-82.247		56	-16.740	0.786	-84.832	-83.968
55	-16.710	0.780	-86.184	-85.432		56	-16.720	0.780	-85.555	-84.803		57	-16.720	0.786	-83.538	-84.334
56	-16.710	0.780	-88.356	-87.903		57	-16.720	0.780	-85.879	-85.116		58	-16.740	0.786	-88.101	-87.132
57	-16.710	0.780	-88.126	-87.457		58	-16.720	0.780	-87.885	-87.071		59	-16.720	0.786	-86.076	-86.990
58	-16.710	0.780	-89.596	-89.395		59	-16.720	0.780	-87.539	-86.942		60	-16.740	0.786	-89.971	-89.252
59	-16.710	0.780	-88.706	-88.418		60	-16.720	0.780	-88.859	-88.407		61	-16.740	0.786	-89.420	-88.504
60	-16.710	0.780	-89.499	-89.908		61	-16.720	0.780	-87.868	-87.607		62	-16.740	0.786	-90.493	-90.348
61	-16.710	0.780	-87.972	-88.373		62	-16.720	0.780	-88.526	-88.719		63	-16.740	0.786	-89.298	-89.252
62	-16.640	0.727	-88.889	-89.524		63	-16.650	0.726	-87.595	-87.457		64	-16.660	0.725	-90.136	-90.575
63	-16.640	0.727	-87.672	-87.606		64	-16.650	0.726	-88.545	-88.215		65	-16.660	0.725	-89.360	-89.043
64	-16.640	0.727	-88.155	-88.331		65	-16.650	0.726	-87.309	-86.584		66	-16.660	0.725	-90.236	-90.015
65	-16.640	0.727	-86.444	-85.986		66	-16.650	0.726	-87.741	-87.027		67	-16.660	0.725	-88.971	-88.084
66	-16.640	0.727	-86.415	-86.321		67	-16.640	0.726	-84.883	-84.931		68	-16.660	0.725	-89.341	-88.712
67	-16.640	0.727	-84.226	-83.591		68	-16.650	0.726	-85.954	-84.983		69	-16.650	0.725	-86.434	-86.418
68	-16.640	0.727	-83.702	-83.490		69	-16.640	0.726	-82.609	-82.543		70	-16.660	0.725	-87.487	-86.702
69	-16.640	0.727	-81.052	-80.426		70	-16.640	0.726	-82.047	-82.182		71	-16.650	0.725	-84.103	-83.977
70	-16.640	0.727	-80.050	-79.831		71	-16.640	0.726	-79.400	-79.554		72	-16.660	0.725	-84.703	-83.957
71	-16.640	0.727	-76.954	-76.424		72	-16.650	0.726	-79.561	-78.646		73	-16.660	0.725	-82.068	-81.074
72	-16.640	0.727	-75.490	-75.388		73	-16.650	0.726	-76.487	-75.652		74	-16.660	0.725	-81.021	-80.612
73	-16.640	0.727	-71.964	-71.407		74	-16.650	0.726	-75.016	-74.403		75	-16.660	0.725	-77.959	-77.414
74	-16.640	0.727	-70.053	-70.280		75	-16.650	0.726	-71.521	-71.106		76	-16.660	0.725	-76.471	-76.699
75	-16.640	0.727	-66.110	-66.182		76	-16.650	0.726	-69.612	-69.569		77	-16.660	0.725	-72.996	-73.348
76	-16.730	0.746	-65.481	-64.616		77	-16.650	0.726	-65.709	-66.230		78	-16.670	0.725	-72.339	-72.256
77	-16.730	0.746	-60.661	-60.430		78	-16.740	0.745	-64.921	-64.520		79	-16.670	0.725	-68.474	-68.741
78	-16.730	0.746	-57.412	-58.400		79	-16.750	0.745	-61.401	-60.720		80	-16.760	0.745	-66.984	-67.238
79	-16.590	0.711	-54.720	-53.960		80	-16.750	0.745	-58.176	-58.650		81	-16.770	0.745	-63.503	-63.122
80	-16.570	0.707	-51.834	-51.790		81	-16.770	0.746	-54.946	-54.710		82	-16.770	0.745	-60.259	-61.118
81	-16.570	0.707	-47.282	-47.220		82	-16.780	0.746	-52.575	-51.870		83	-16.670	0.720	-55.573	-55.212
82	-16.570	0.707	-44.299	-44.390		83	-16.780	0.746	-44.923	-45.898		84	-16.670	0.720	-50.578	-50.465
83	-16.580	0.707	-38.612	-37.880		84	-16.580	0.705	-40.976	-40.750		85	-16.600	0.705	-44.502	-44.140
84	-16.580	0.707	-33.220	-32.730		85	-16.580	0.705	-34.158	-34.400		86	-16.600	0.705	-39.597	-39.460
85	-16.580	0.707	-25.966	-25.740		86	-16.580	0.705	-28.887	-29.080		87	-16.600	0.705	-32.868	-32.820
86	-16.590	0.707	-21.592	-21.550		87	-16.590	0.705	-23.127	-22.630		88	-16.610	0.705	-29.020	-28.110
87	-16.590	0.707	-14.069	-13.930		88	-16.590	0.705	-17.569	-16.930		89	-16.580	0.702	-20.301	-20.740
88	-16.590	0.707	-8.091	-8.160		89	-16.590	0.705	-10.204	-9.480		90	-16.580	0.702	-14.883	-15.300
89	-16.590	0.707	-0.299	-0.110		90	-16.590	0.705	-4.359	-3.790		91	-16.580	0.702	-7.688	-7.860
90	-16.590	0.707	5.964	5.590		91	-16.590	0.705	3.272	3.630		92	-16.580	0.702	-1.988	-2.530
91	-16.590	0.707	14.019	13.670		92	-16.590	0.705	9.398	9.690		93	-16.600	0.705	5.462	5.280
92	-16.590	0.705	18.560	19.540		93	-16.590	0.705	17.287	17.150		94	-16.610	0.705	10.106	10.820
93	-16.590	0.705	26.793	27.560		94	-16.570	0.701	22.417	23.300		95	-16.610	0.705	17.897	18.170
94	-16.590	0.705	33.524	33.300		95	-16.570	0.701	30.424	30.490		96	-16.610	0.705	24.221	23.850
95	-16.400	0.680	41.444	41.220		96	-16.390	0.677	36.836	36.630		97	-16.390	0.674	31.079	31.380
96	-16.400	0.680	47.651	47.510		97	-16.390	0.677	44.343	44.200		98	-16.390	0.674	36.704	37.250
97	-16.400	0.680	55.574	55.610		98	-16.390	0.677	50.371	50.570		99	-16.390	0.674	44.010	44.830
98	-16.400	0.680	62.009	62.000		99	-16.390	0.677	58.087	58.120		100	-16.380	0.674	51.341	51.030
99	-16.400	0.680	70.138	70.020		100	-16.390	0.677	64.339	64.820		101	-16.410	0.678	59.188	58.970
100	-16.400	0.680	76.795	76.650		101	-16.390	0.677	72.259	72.800		102	-16.410	0.678	65.394	65.290
101	-16.400	0.680	85.126	85.250		102	-16.340	0.672	79.740	79.610		103	-16.410	0.678	73.245	73.480
102	-16.400	0.680	91.998	92.080		103	-16.340	0.672	87.707	87.890		104	-16.410	0.678	79.668	80.140
103	-16.400	0.680	100.526	100.760		104	-16.340	0.672	94.233	94.910		105	-16.410	0.678	87.717	88.570
104	-16.400	0.680	107.607	107.950		105	-16.330	0.672	103.909	103.440		106	-16.390	0.677	96.029	95.440
105	-16.400	0.680	116.326	116.910		106	-16.390	0.679	111.642	110.670		107	-16.390	0.677	104.250	103.960
106	-16.350	0.676	125.148	124.250		107	-16.390	0.679	120.226	119.400		108	-16.390	0.677	111.067	110.980
107	-16.350	0.676	133.931	133.360		108	-16.390	0.679	127.397	126.710		109	-16.390	0.677	119.475	119.660
108	-16.350	0.676	141.290	140.												

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)						
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
47	-16.800	0.695	-38.366	-38.090		<b>48</b>	-16.820	0.600	-41.611	<b>-42.260</b>		<b>50</b>	-16.820	0.630	-45.883	<b>-46.480</b>
48	-16.800	0.752	-47.965	-47.390		<b>49</b>	-16.820	0.990	-48.627	-47.976		<b>51</b>	-16.820	0.630	-51.201	-51.100
49	-16.780	0.752	-53.237	-53.906		<b>50</b>	-16.800	0.990	-56.342	-57.148		<b>52</b>	-16.820	0.885	-57.567	-56.670
50	-16.780	0.752	-61.532	-61.376		<b>51</b>	-16.800	0.990	-60.339	-60.310		<b>53</b>	-16.800	0.885	-59.276	-59.300
51	-16.770	0.752	-64.265	-64.178		<b>52</b>	-16.800	0.990	-65.709	-64.930		<b>54</b>	-16.800	0.885	-64.546	-64.015
52	-16.770	0.789	-69.458	-68.545		<b>53</b>	-16.780	0.798	-67.759	-67.090		<b>55</b>	-16.800	0.885	-67.288	-66.473
53	-16.750	0.789	-70.266	-70.695		<b>54</b>	-16.760	0.798	-70.688	-71.627		<b>56</b>	-16.800	0.885	-71.521	-70.653
54	-16.750	0.789	-74.758	-74.632		<b>55</b>	-16.760	0.798	-73.251	-73.338		<b>57</b>	-16.800	0.885	-73.273	-72.445
55	-16.750	0.789	-76.825	-76.183		<b>56</b>	-16.760	0.798	-77.434	-77.354		<b>58</b>	-16.800	0.885	-76.506	-76.251
56	-16.750	0.789	-80.541	-79.641		<b>57</b>	-16.760	0.798	-79.234	-78.512		<b>59</b>	-16.800	0.885	-77.303	-77.450
57	-16.730	0.789	-79.754	-80.608		<b>58</b>	-16.760	0.798	-82.640	-82.070		<b>60</b>	-16.770	0.797	-81.153	-80.837
58	-16.730	0.789	-82.702	-83.567		<b>59</b>	-16.750	0.798	-82.614	-82.630		<b>61</b>	-16.770	0.797	-82.076	-81.599
59	-16.730	0.789	-83.308	-84.120		<b>60</b>	-16.760	0.798	-86.359	-85.842		<b>62</b>	-16.770	0.797	-84.561	-84.417
60	-16.730	0.789	-85.533	-86.490		<b>61</b>	-16.760	0.798	-86.713	-85.939		<b>63</b>	-16.770	0.797	-84.793	-84.497
61	-16.740	0.789	-86.557	-86.470		<b>62</b>	-16.760	0.798	-88.645	-88.655		<b>64</b>	-16.770	0.797	-86.573	-87.003
62	-16.750	0.789	-89.206	-88.392		<b>63</b>	-16.760	0.798	-88.314	-88.328		<b>65</b>	-16.770	0.797	-86.136	-86.822
63	-16.750	0.789	-88.492	-87.990		<b>64</b>	-16.770	0.798	-90.687	-90.560		<b>66</b>	-16.700	0.724	-88.706	-88.640
64	-16.750	0.789	-89.368	-89.367		<b>65</b>	-16.680	0.725	-89.144	-90.034		<b>67</b>	-16.690	0.724	-87.611	-87.996
65	-16.670	0.727	-88.349	-88.570		<b>66</b>	-16.680	0.725	-90.875	-91.526		<b>68</b>	-16.690	0.724	-89.275	-89.476
66	-16.670	0.727	-89.624	-89.536		<b>67</b>	-16.680	0.725	-90.484	-90.398		<b>69</b>	-16.690	0.724	-88.859	-88.417
67	-16.670	0.727	-88.767	-88.250		<b>68</b>	-16.680	0.725	-91.697	-91.653		<b>70</b>	-16.690	0.724	-90.017	-89.599
68	-16.670	0.727	-89.527	-88.943		<b>69</b>	-16.680	0.725	-90.819	-90.065		<b>71</b>	-16.690	0.724	-89.125	-88.334
69	-16.670	0.727	-88.186	-87.228		<b>70</b>	-16.680	0.725	-91.531	-91.098		<b>72</b>	-16.690	0.724	-89.793	-89.223
70	-16.670	0.727	-88.448	-87.699		<b>71</b>	-16.680	0.725	-90.183	-89.197		<b>73</b>	-16.690	0.724	-88.441	-87.619
71	-16.670	0.727	-86.641	-85.728		<b>72</b>	-16.680	0.725	-90.410	-89.940		<b>74</b>	-16.690	0.724	-88.636	-88.255
72	-16.670	0.727	-86.421	-85.835		<b>73</b>	-16.680	0.725	-88.608	-87.815		<b>75</b>	-16.690	0.724	-86.839	-86.393
73	-16.670	0.727	-84.162	-83.571		<b>74</b>	-16.680	0.725	-88.366	-88.231		<b>76</b>	-16.690	0.724	-86.574	-86.698
74	-16.670	0.727	-83.475	-83.429		<b>75</b>	-16.680	0.725	-86.123	-85.894		<b>77</b>	-16.690	0.724	-84.346	-84.630
75	-16.670	0.727	-80.780	-80.868		<b>76</b>	-16.680	0.725	-85.427	-86.015		<b>78</b>	-16.690	0.724	-83.637	-84.629
76	-16.670	0.727	-79.642	-80.412		<b>77</b>	-16.680	0.725	-82.759	-83.470		<b>79</b>	-16.680	0.717	-82.479	-82.286
77	-16.680	0.727	-77.784	-77.809		<b>78</b>	-16.680	0.719	-84.042	-83.361		<b>80</b>	-16.690	0.717	-82.823	-81.981
78	-16.780	0.752	-77.794	-76.880		<b>79</b>	-16.680	0.719	-81.121	-80.591		<b>81</b>	-16.690	0.717	-79.961	-79.635
79	-16.660	0.718	-74.306	-74.190		<b>80</b>	-16.680	0.719	-79.723	-80.132		<b>82</b>	-16.690	0.717	-78.598	-78.924
80	-16.660	0.718	-72.552	-72.835		<b>81</b>	-16.680	0.719	-76.411	-77.265		<b>83</b>	-16.690	0.717	-73.321	-74.019
81	-16.670	0.718	-70.179	-69.907		<b>82</b>	-16.680	0.715	-76.648	-76.547		<b>84</b>	-16.690	0.717	-69.549	-69.690
82	-16.670	0.718	-68.037	-68.024		<b>83</b>	-16.680	0.715	-71.030	-70.874		<b>85</b>	-16.690	0.717	-63.942	-64.507
83	-16.670	0.718	-61.948	-62.412		<b>84</b>	-16.680	0.715	-66.931	-66.434		<b>86</b>	-16.690	0.717	-59.826	-60.060
84	-16.670	0.718	-57.389	-57.690		<b>85</b>	-16.680	0.715	-60.991	-60.632		<b>87</b>	-16.690	0.717	-53.897	-54.650
85	-16.670	0.718	-50.980	-51.970		<b>86</b>	-16.680	0.715	-56.555	-56.170		<b>88</b>	-16.690	0.717	-49.447	-50.050
86	-16.680	0.718	-47.436	-47.110		<b>87</b>	-16.680	0.715	-50.303	-50.150		<b>89</b>	-16.640	0.706	-43.708	-44.390
87	-16.610	0.704	-40.952	-40.970		<b>88</b>	-16.630	0.706	-44.836	-45.510		<b>90</b>	-16.640	0.706	-39.238	-39.540
88	-16.610	0.704	-36.135	-35.830		<b>89</b>	-16.630	0.706	-38.524	-39.310		<b>91</b>	-16.640	0.706	-33.007	-33.610
89	-16.610	0.704	-29.524	<b>-28.710</b>		<b>90</b>	-16.630	0.706	-33.694	-34.490		<b>92</b>	-16.640	0.706	-28.235	<b>-27.990</b>
90	-16.610	0.704	-24.408	<b>-23.450</b>		<b>91</b>	-16.630	0.706	-27.098	<b>-26.450</b>		<b>93</b>	-16.640	0.706	-21.722	<b>-21.400</b>
91	-16.600	0.704	-16.120	<b>-16.470</b>		<b>92</b>	-16.630	0.706	-21.971	<b>-21.610</b>		<b>94</b>	-16.640	0.706	-16.655	<b>-16.480</b>
92	-16.600	0.704	-10.705	<b>-11.110</b>		<b>93</b>	-16.630	0.706	-15.099	<b>-14.540</b>		<b>95</b>	-16.640	0.706	-9.869	<b>-9.960</b>
93	-16.610	0.704	-4.959	<b>-4.020</b>		<b>94</b>	-16.630	0.706	-9.684	<b>-9.550</b>		<b>96</b>	-16.630	0.704	-4.871	<b>-4.970</b>
94	-16.610	0.704	0.728	<b>1.440</b>		<b>95</b>	-16.630	0.706	-2.543	<b>-1.990</b>		<b>97</b>	-16.640	0.704	0.640	<b>1.340</b>
95	-16.610	0.704	8.144	<b>8.940</b>		<b>96</b>	-16.630	0.706	3.153	<b>3.070</b>		<b>98</b>	-16.640	0.704	6.198	<b>6.590</b>
96	-16.610	0.704	14.105	<b>14.550</b>		<b>97</b>	-16.630	0.706	10.554	<b>9.910</b>		<b>99</b>	-16.640	0.704	13.434	<b>13.430</b>
97	-16.610	0.704	21.775	<b>21.440</b>		<b>98</b>	-16.430	0.676	15.787	<b>15.320</b>		<b>100</b>	-16.640	0.704	19.261	<b>18.890</b>
98	-16.390	0.673	27.638	<b>27.280</b>		<b>99</b>	-16.430	0.676	22.531	<b>22.510</b>		<b>101</b>	-16.630	0.702	26.080	<b>25.870</b>
99	-16.390	0.673	34.605	<b>34.470</b>		<b>100</b>	-16.430	0.676	27.840	<b>28.060</b>		<b>102</b>	-16.630	0.702	32.101	<b>31.630</b>
100	-16.390	0.673	40.127	<b>40.570</b>		<b>101</b>	-16.430	0.676	34.801	<b>35.440</b>		<b>103</b>	-16.640	0.702	38.222	<b>38.770</b>
101	-16.390	0.673	47.305	<b>47.950</b>		<b>102</b>	-16.430	0.676	40.339	<b>41.260</b>		<b>104</b>	-16.640	0.702	44.485	<b>44.860</b>
102	-16.380	0.673	54.559	<b>54.220</b>		<b>103</b>	-16.440	0.679	49.515	<b>48.890</b>		<b>105</b>	-16.640	0.702	52.370	<b>52.240</b>
103	-16.410	0.677	62.286	<b>61.950</b>		<b>104</b>	-16.440	0.679	55.382	<b>54.990</b>		<b>106</b>	-16.640	0.702	58.879	<b>58.550</b>
104	-16.410	0.677	68.384	<b>68.500</b>		<b>105</b>	-16.440	0.679	62.867	<b>62.970</b>		<b>107</b>	-16.450	0.679	66.945	<b>66.230</b>
105	-16.410	0.677	76.103	<b>76.400</b>		<b>106</b>	-16.440	0.679	68.955	<b>69.300</b>		<b>108</b>	-16.450	0.679	72.953	<b>72.630</b>
106	-16.420	0.679	83.563	<b>83.220</b>		<b>107</b>	-16.430	0.679	78.212	<b>77.460</b>		<b>109</b>	-16.450	0.679	80.539	<b>80.470</b>
107	-16.420	0.														

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)						
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
49	-16.860	0.680	-28.684	<b>-28.090</b>		50	-16.860	0.600	-25.857	<b>-25.770</b>		51	-16.870	0.600	-21.574	<b>-21.450</b>
50	-16.840	0.680	-36.891	<b>-37.840</b>		51	-16.850	0.685	-30.617	<b>-31.270</b>		52	-16.870	0.600	-29.766	<b>-29.190</b>
51	-16.840	0.630	-42.757	<b>-42.540</b>		52	-16.850	0.685	-38.627	<b>-38.160</b>		53	-16.850	0.600	-33.606	<b>-34.050</b>
52	-16.840	0.630	-50.274	-49.630		53	-16.840	0.685	-43.266	-43.300		54	-16.860	0.600	-42.419	-42.632
53	-16.830	0.885	-53.717	-52.810		54	-16.830	0.685	-49.047	-49.430		55	-16.840	0.600	-45.337	-46.170
54	-16.810	0.885	-57.561	-58.220		55	-16.820	0.885	-51.893	-52.771		56	-16.840	0.889	-51.286	-51.923
55	-16.810	0.885	-60.987	-60.657		56	-16.820	0.885	-57.465	-57.673		57	-16.840	0.889	-55.053	-54.520
56	-16.810	0.885	-65.884	-65.782		57	-16.820	0.885	-60.572	-60.468		58	-16.840	0.889	-60.242	-60.026
57	-16.810	0.885	-68.309	-67.715		58	-16.820	0.885	-65.124	-64.954		59	-16.840	0.889	-63.014	-62.204
58	-16.810	0.885	-72.197	-72.230		59	-16.820	0.885	-67.256	-67.063		60	-16.840	0.889	-67.199	-67.086
59	-16.810	0.885	-73.657	-73.587		60	-16.820	0.885	-70.824	-71.120		61	-16.810	0.799	-68.588	-68.657
60	-16.780	0.796	-77.139	-77.568		61	-16.800	0.798	-73.533	-72.639		62	-16.810	0.799	-72.639	-73.047
61	-16.780	0.796	-78.614	-78.347		62	-16.800	0.798	-77.075	-76.338		63	-16.810	0.799	-74.460	-74.185
62	-16.780	0.796	-81.634	-81.890		63	-16.800	0.798	-78.378	-77.421		64	-16.810	0.799	-77.780	-78.079
63	-16.780	0.796	-82.410	-82.063		64	-16.800	0.798	-81.197	-80.439		65	-16.810	0.799	-78.904	-78.794
64	-16.780	0.796	-84.720	-85.264		65	-16.800	0.798	-81.814	-80.971		66	-16.810	0.799	-81.515	-82.172
65	-16.780	0.796	-84.821	-85.096		66	-16.800	0.798	-83.934	-83.778		67	-16.810	0.799	-81.966	-82.481
66	-16.790	0.796	-87.624	-87.691		67	-16.800	0.798	-83.887	-83.747		68	-16.820	0.799	-85.113	-85.355
67	-16.710	0.723	-87.099	-87.183		68	-16.800	0.798	-85.332	-86.246		69	-16.740	0.726	-84.433	-85.248
68	-16.710	0.723	-89.209	-89.362		69	-16.720	0.725	-85.543	-86.079		70	-16.740	0.726	-86.827	-87.667
69	-16.700	0.723	-88.038	-88.543		70	-16.720	0.725	-87.531	-87.943		71	-16.740	0.726	-87.192	-87.199
70	-16.700	0.723	-89.628	-90.313		71	-16.720	0.725	-87.484	-87.365		72	-16.740	0.726	-89.075	-89.146
71	-16.700	0.723	-89.176	-89.171		72	-16.720	0.725	-88.968	-88.836		73	-16.740	0.726	-88.957	-88.321
72	-16.700	0.723	-90.271	-90.524		73	-16.720	0.725	-88.447	-87.910		74	-16.740	0.726	-90.344	-89.861
73	-16.700	0.723	-89.355	-89.022		74	-16.720	0.725	-89.443	-88.983		75	-16.730	0.726	-88.470	-88.696
74	-16.700	0.723	-89.972	-90.064		75	-16.720	0.725	-88.462	-87.738		76	-16.740	0.726	-90.667	-89.880
75	-16.700	0.723	-88.606	-88.280		76	-16.720	0.725	-88.986	-88.507		77	-16.730	0.726	-88.321	-88.414
76	-16.700	0.723	-88.759	-88.994		77	-16.720	0.725	-87.560	-86.936		78	-16.740	0.726	-90.073	-89.279
77	-16.700	0.723	-86.957	-87.005		78	-16.720	0.725	-87.626	-87.443		79	-16.740	0.726	-88.598	-87.644
78	-16.700	0.723	-86.662	-87.353		79	-16.720	0.725	-85.769	-85.704		80	-16.740	0.726	-88.590	-88.126
79	-16.700	0.723	-84.438	-85.211		80	-16.720	0.725	-85.392	-85.857		81	-16.740	0.726	-86.690	-86.413
80	-16.680	0.713	-84.992	-85.188		81	-16.720	0.725	-83.118	-84.043		82	-16.740	0.726	-86.245	-86.429
81	-16.690	0.713	-83.929	-82.937		82	-16.700	0.713	-84.582	-83.779		83	-16.740	0.726	-81.930	-82.383
82	-16.690	0.713	-83.033	-82.534		83	-16.700	0.713	-80.187	-79.545		84	-16.700	0.712	-79.663	-79.972
83	-16.690	0.713	-78.244	-77.729		84	-16.700	0.713	-77.273	-76.356		85	-16.700	0.712	-75.322	-75.645
84	-16.690	0.713	-74.949	-74.425		85	-16.700	0.713	-72.539	-71.980		86	-16.710	0.712	-73.839	-72.986
85	-16.690	0.713	-69.829	-69.304		86	-16.700	0.713	-69.274	-68.471		87	-16.710	0.712	-69.176	-68.197
86	-16.730	0.724	-65.569	-65.696		87	-16.700	0.713	-64.212	-63.606		88	-16.710	0.712	-65.959	-65.230
87	-16.690	0.713	-60.747	-60.205		88	-16.700	0.713	-60.608	-59.927		89	-16.710	0.712	-60.973	-60.203
88	-16.690	0.713	-56.773	-56.367		89	-16.700	0.713	-55.227	-54.803		90	-16.710	0.712	-57.421	-56.872
89	-16.690	0.713	-51.017	-50.670		90	-16.700	0.713	-51.292	-50.790		91	-16.710	0.712	-52.122	-51.493
90	-16.690	0.713	-46.718	-46.550		91	-16.700	0.713	-45.602	-45.330		92	-16.710	0.712	-48.245	-47.955
91	-16.640	0.702	-41.243	-40.530		92	-16.640	0.700	-41.680	-41.130		93	-16.710	0.712	-42.641	-42.400
92	-16.640	0.702	-36.934	-36.220		93	-16.640	0.700	-36.047	-35.540		94	-16.650	0.700	-38.199	-38.650
93	-16.640	0.702	-30.893	-30.010		94	-16.640	0.700	-31.842	-31.200		95	-16.650	0.700	-32.627	-33.000
94	-16.640	0.702	-26.290	<b>-25.650</b>		95	-16.640	0.700	-25.931	<b>-25.930</b>		96	-16.660	0.700	-29.961	-28.990
95	-16.640	0.702	-19.975	<b>-19.590</b>		96	-16.640	0.700	-21.437	<b>-21.550</b>		97	-16.660	0.700	-24.125	<b>-24.120</b>
96	-16.640	0.702	-15.085	<b>-15.100</b>		97	-16.640	0.700	-15.257	<b>-15.580</b>		98	-16.660	0.700	-19.683	<b>-20.010</b>
97	-16.640	0.702	-8.503	<b>-8.620</b>		98	-16.640	0.700	-10.481	<b>-10.990</b>		99	-16.660	0.700	-13.579	<b>-13.890</b>
98	-16.640	0.702	-3.334	<b>-3.840</b>		99	-16.650	0.701	-4.635	<b>-4.840</b>		100	-16.670	0.700	-10.398	<b>-9.450</b>
99	-16.630	0.700	3.079	<b>2.880</b>		100	-16.650	0.701	0.440	<b>0.200</b>		101	-16.670	0.700	-4.045	<b>-3.230</b>
100	-16.640	0.700	6.936	<b>7.900</b>		101	-16.660	0.701	5.624	<b>6.550</b>		102	-16.670	0.700	0.937	<b>1.540</b>
101	-16.640	0.700	13.955	<b>14.870</b>		102	-16.660	0.701	10.956	<b>11.720</b>		103	-16.670	0.700	7.543	<b>8.060</b>
102	-16.640	0.700	19.584	<b>20.020</b>		103	-16.660	0.701	17.919	<b>18.290</b>		104	-16.670	0.700	12.788	<b>13.020</b>
103	-16.640	0.700	26.847	<b>27.200</b>		104	-16.660	0.701	23.513	<b>23.850</b>		105	-16.670	0.700	19.641	<b>19.960</b>
104	-16.640	0.700	32.731	<b>32.710</b>		105	-16.660	0.701	30.718	<b>30.720</b>		106	-16.670	0.700	25.143	<b>25.190</b>
105	-16.640	0.700	40.231	<b>40.170</b>		106	-16.660	0.701	36.565	<b>36.510</b>		107	-16.670	0.700	32.235	<b>32.380</b>
106	-16.640	0.700	46.363	<b>45.930</b>		107	-16.660	0.701	44.006	<b>43.720</b>		108	-16.670	0.700	37.988	<b>37.890</b>
107	-16.640	0.700	54.093	<b>53.630</b>		108	-16.660	0.701	50.100	<b>49.640</b>		109	-16.670	0.700	45.313	<b>45.240</b>
108	-16.640	0.700	60.467	<b>59.600</b>		109	-16.660	0.701	57.772	<b>56.980</b>		110	-16.670	0.700	51.309	<b>50.930</b>
109	-16.650	0.700	66.812	<b>67.410</b>		110	-16.490	0.680	64.038	<b>63.170</b>		111	-16.670	0.700	58.862	<b>58.430</b>
110	-16.480	0.680	73.457	<b>73.620</b>		111	-16.490	0.680	71.259	<b>70.630</b>		112	-16.670	0.700	65.096	<b>64.420</b>
111	-16.480	0.680	80.972	<b>81.600</b>		112	-16.490	0.680	77.144	<b>76.980</b>		113	-16.670	0.700	72.	

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
123	-16.480	0.680	170.046	<b>169.810</b>		124	-16.490	0.680	164.065	<b>163.520</b>		125	-16.510	0.680	156.473	<b>156.660</b>	
124	-16.480	0.680	177.384	<b>176.830</b>		125	-16.500	0.680	170.809	<b>171.550</b>		126	-16.510	0.680	163.465	<b>163.440</b>	
						126	-16.500	0.680	178.055	<b>178.730</b>		127	-16.510	0.680	173.827	<b>173.720</b>	
											128	-16.510	0.680	182.924	<b>182.420</b>		
55	51	-16.880	0.600	-8.799	<b>-9.380</b>	56	52	-16.900	0.600	-7.546	<b>-7.760</b>	57	53	-16.910	0.600	-1.332	<b>-2.270</b>
52	-16.880	0.600	-17.341	<b>-17.510</b>		53	-16.900	0.600	-14.240	<b>-13.730</b>		54	-16.910	0.600	-10.105	<b>-10.780</b>	
53	-16.880	0.600	-23.681	<b>-23.190</b>		54	-16.900	0.600	-22.675	<b>-22.490</b>		55	-16.910	0.600	-16.733	<b>-16.890</b>	
54	-16.870	0.600	-30.688	<b>-30.680</b>		55	-16.890	0.600	-27.844	<b>-27.800</b>		56	-16.910	0.600	-25.067	<b>-24.590</b>	
55	-16.870	0.600	-36.608	<b>-36.040</b>		56	-16.880	0.600	-34.713	<b>-35.190</b>		57	-16.890	0.600	-29.008	<b>-29.480</b>	
56	-16.860	0.600	-42.694	-42.900		57	-16.870	0.600	-38.985	-39.710		58	-16.890	0.600	-36.446	<b>-36.210</b>	
57	-16.850	0.889	-45.754	-46.415		58	-16.870	0.890	-45.214	-45.905		59	-16.880	0.600	-40.648	-40.050	
58	-16.850	0.889	-51.604	-51.765		59	-16.870	0.890	-49.314	-48.920		60	-16.870	0.735	-45.754	-46.271	
59	-16.850	0.889	-55.045	-54.686		60	-16.870	0.890	-54.792	-54.380		61	-16.870	0.735	-50.216	-49.620	
60	-16.850	0.889	-59.882	-59.699		61	-16.870	0.890	-57.911	-57.458		62	-16.860	0.735	-55.018	-55.020	
61	-16.850	0.889	-62.354	-62.043		62	-16.870	0.890	-62.400	-62.200		63	-16.860	0.789	-57.666	-57.570	
62	-16.850	0.889	-66.213	-66.493		63	-16.840	0.797	-64.053	-64.590		64	-16.850	0.789	-61.417	-62.190	
63	-16.850	0.889	-67.747	-68.409		64	-16.840	0.797	-68.429	-68.889		65	-16.850	0.789	-64.208	-64.543	
64	-16.830	0.797	-73.185	-72.305		65	-16.840	0.797	-70.628	-70.745		66	-16.850	0.789	-68.451	-68.651	
65	-16.830	0.797	-74.871	-73.889		66	-16.840	0.797	-74.286	-74.609		67	-16.850	0.789	-70.566	-70.259	
66	-16.830	0.797	-78.031	-77.102		67	-16.840	0.797	-75.801	-75.655		68	-16.850	0.789	-74.123	-73.759	
67	-16.830	0.797	-79.040	-78.145		68	-16.840	0.797	-78.764	-79.090		69	-16.850	0.789	-75.585	-74.973	
68	-16.830	0.797	-81.512	-81.044		69	-16.840	0.797	-79.617	-79.669		70	-16.850	0.789	-78.478	-77.896	
69	-16.830	0.797	-81.866	-81.741		70	-16.840	0.797	-81.907	-82.670		71	-16.850	0.789	-79.307	-78.625	
70	-16.830	0.797	-83.672	-84.090		71	-16.840	0.797	-82.119	-82.818		72	-16.850	0.789	-81.557	-81.324	
71	-16.830	0.797	-83.393	-84.351		72	-16.760	0.713	-85.276	-85.369		73	-16.850	0.789	-81.774	-81.627	
72	-16.740	0.713	-86.440	-86.240		73	-16.750	0.713	-84.909	-85.061		74	-16.850	0.789	-83.402	-83.769	
73	-16.730	0.713	-85.677	-85.932		74	-16.750	0.713	-87.311	-87.257		75	-16.770	0.727	-83.203	-83.724	
74	-16.730	0.713	-87.684	-87.499		75	-16.740	0.713	-86.456	-86.679		76	-16.770	0.727	-85.287	-85.494	
75	-16.730	0.713	-87.738	-86.900		76	-16.740	0.713	-88.377	-88.435		77	-16.770	0.727	-85.447	-85.219	
76	-16.720	0.713	-87.970	-88.056		77	-16.730	0.712	-87.268	-87.554		78	-16.770	0.727	-87.047	-86.643	
77	-16.710	0.712	-86.498	-87.153		78	-16.730	0.712	-88.743	-88.950		79	-16.770	0.727	-86.750	-86.037	
78	-16.710	0.712	-87.590	-88.071		79	-16.730	0.712	-88.325	-87.851		80	-16.770	0.727	-87.882	-87.141	
79	-16.710	0.712	-86.782	-86.891		80	-16.730	0.712	-89.359	-88.887		81	-16.770	0.727	-87.141	-86.513	
80	-16.710	0.712	-87.438	-87.582		81	-16.730	0.712	-88.525	-87.721		82	-16.700	0.698	-86.787	-87.222	
81	-16.710	0.712	-86.220	-86.339		82	-16.730	0.712	-89.132	-88.262		83	-16.700	0.698	-84.223	-84.312	
82	-16.710	0.712	-86.454	-86.546		83	-16.730	0.712	-85.910	-84.914		84	-16.700	0.698	-83.104	-82.930	
83	-16.710	0.712	-82.844	-82.887		84	-16.730	0.712	-84.137	-83.268		85	-16.700	0.698	-80.200	-80.024	
84	-16.710	0.712	-80.694	-80.701		85	-16.730	0.712	-80.562	-79.732		86	-16.700	0.698	-78.729	-78.171	
85	-16.710	0.712	-76.736	-77.050		86	-16.730	0.712	-78.423	-77.842		87	-16.700	0.698	-75.493	-74.850	
86	-16.710	0.712	-74.225	-74.477		87	-16.730	0.712	-74.504	-73.937		88	-16.700	0.698	-73.680	-72.835	
87	-16.710	0.712	-69.929	-70.515		88	-16.730	0.712	-72.010	-71.767		89	-16.700	0.698	-70.124	-69.221	
88	-16.710	0.712	-67.068	-67.676		89	-16.730	0.712	-67.758	-67.516		90	-16.690	0.698	-66.507	-66.678	
89	-16.710	0.712	-62.444	-63.271		90	-16.730	0.712	-64.918	-64.866		91	-16.690	0.698	-62.629	-62.709	
90	-16.710	0.712	-59.243	-60.054		91	-16.730	0.712	-60.342	-60.264		92	-16.690	0.698	-60.149	-60.220	
91	-16.720	0.712	-55.760	-55.310		92	-16.730	0.712	-57.167	-57.545		93	-16.690	0.698	-55.967	-56.311	
92	-16.720	0.713	-51.613	-51.920		93	-16.740	0.713	-53.147	-52.831		94	-16.690	0.698	-53.172	-53.310	
93	-16.730	0.713	-47.819	-46.911		94	-16.740	0.713	-49.625	-49.890		95	-16.700	0.698	-50.215	-49.290	
94	-16.730	0.713	-43.955	-43.300		95	-16.750	0.713	-45.916	-44.940		96	-16.690	0.698	-45.595	-46.060	
95	-16.730	0.713	-38.389	-38.170		96	-16.750	0.713	-42.085	-41.610		97	-16.700	0.698	-42.371	-41.530	
96	-16.730	0.713	-34.211	-34.280		97	-16.750	0.713	-36.578	-36.470		98	-16.690	0.698	-37.432	-37.930	
97	-16.670	0.700	-29.337	-29.130		98	-16.690	0.700	-33.206	-32.920		99	-16.710	0.701	-33.243	-33.050	
98	-16.680	0.700	-26.755	<b>-25.830</b>		99	-16.690	0.700	-27.776	<b>-28.180</b>		100	-16.710	0.701	-29.478	-29.070	
99	-16.680	0.700	-20.997	<b>-20.260</b>		100	-16.700	0.700	-25.269	<b>-24.390</b>		101	-16.710	0.701	-24.085	<b>-24.550</b>	
100	-16.680	0.700	-16.612	<b>-15.890</b>		101	-16.700	0.700	-19.579	<b>-18.710</b>		102	-16.710	0.701	-20.034	<b>-20.470</b>	
101	-16.680	0.700	-10.589	<b>-10.240</b>		102	-16.700	0.700	-15.242	<b>-14.590</b>		103	-16.710	0.701	-14.374	<b>-14.990</b>	
102	-16.680	0.700	-5.929	<b>-5.630</b>		103	-16.700	0.700	-9.290	<b>-8.640</b>		104	-16.710	0.701	-10.045	<b>-10.440</b>	
103	-16.680	0.700	0.351	<b>0.520</b>		104	-16.700	0.700	-4.681	<b>-4.080</b>		105	-16.710	0.701	-4.123	<b>-4.600</b>	
104	-16.680	0.700	5.280	<b>5.410</b>		105	-16.700	0.700	1.526	<b>2.220</b>		106	-16.710	0.701	0.476	<b>0.230</b>	
105	-16.680	0.700	11.811	<b>11.870</b>		106	-16.700	0.700	6.401	<b>7.080</b>		107	-16.710	0.701	6.651	<b>6.420</b>	
106	-16.680	0.700	17.001	<b>17.080</b>		107	-16.700	0.700	12.856	<b>13.690</b>		108	-16.710	0.701	11.514	<b>11.530</b>	
107	-16.680	0.700	23.775	<b>23.770</b>		108	-16.700	0.700	17.990	<b>18.820</b>		109	-16.710	0.701	17.936	<b>17.940</b>	
108	-16.680	0.700	29.220	<b>29.220</b>		109	-16.700	0.700	24.687	<b>25.610</b>		110	-16.710	0.701	23.056	<b>23.150</b>	
109	-16.680	0.700	36.233	<b>36.100</b>		110	-16.700	0.700	30.072	<b>30.910</b>		111	-16.710	0.701	29.719	<b>29.750</b>	
110	-16.680	0.700	41.925	<b>41.8</b>													

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.						
121	-16.530	0.682	116.948	<b>116.480</b>		122	-16.540	0.681	109.282	<b>109.630</b>		123	-16.540	0.680	106.317	<b>106.000</b>			
122	-16.530	0.682	123.374	<b>122.710</b>		123	-16.540	0.681	116.854	<b>116.840</b>		124	-16.540	0.680	112.340	<b>112.060</b>			
123	-16.540	0.682	129.474	<b>130.150</b>		124	-16.540	0.681	123.172	<b>122.920</b>		125	-16.540	0.680	119.795	<b>119.310</b>			
124	-16.540	0.682	136.084	<b>136.640</b>		125	-16.540	0.681	130.928	<b>130.560</b>		126	-16.540	0.680	126.013	<b>125.700</b>			
125	-16.530	0.681	144.114	<b>144.210</b>		126	-16.540	0.681	137.439	<b>136.940</b>		127	-16.540	0.680	135.569	<b>134.960</b>			
126	-16.530	0.681	150.880	<b>151.020</b>		127	-16.540	0.681	147.299	<b>146.670</b>		128	-16.540	0.680	143.881	<b>143.260</b>			
127	-16.530	0.681	161.006	<b>160.820</b>		128	-16.540	0.681	155.909	<b>154.980</b>		129	-16.540	0.680	153.586	<b>152.960</b>			
128	-16.530	0.681	169.874	<b>169.500</b>		129	-16.540	0.681	165.915	<b>165.120</b>		130	-16.540	0.680	162.057	<b>161.500</b>			
129	-16.530	0.681	180.144	<b>179.680</b>		130	-16.550	0.681	172.822	<b>173.640</b>		131	-16.550	0.680	170.030	<b>170.750</b>			
130	-16.530	0.681	189.166	<b>188.610</b>		131	-16.550	0.681	182.963	<b>183.370</b>		132	-16.550	0.680	178.646	<b>178.890</b>			
						132	-16.540	0.680	191.679	<b>191.570</b>		133	-16.550	0.680	188.632	<b>188.100</b>			
						133	-16.540	0.680	201.925	<b>201.140</b>		134	-16.560	0.680	195.491	<b>196.380</b>			
						134	-16.560	0.680				135	-16.560	0.680	205.606	<b>205.610</b>			
58	55	-16.930	0.600	-7.128	<b>-7.330</b>		59	56	-16.950	0.600	-4.213	<b>-4.400</b>		60	58	-16.970	0.600	-10.240	<b>-10.440</b>
56	-16.930	0.600	-15.791	<b>-15.760</b>		57	-16.950	0.600	-11.122	<b>-10.770</b>		59	-16.970	0.600	-17.076	<b>-16.430</b>			
57	-16.920	0.600	-21.201	<b>-21.270</b>		58	-16.950	0.600	-19.689	<b>-18.960</b>		60	-16.970	0.600	-25.538	<b>-24.610</b>			
58	-16.910	0.600	-28.263	<b>-29.110</b>		59	-16.930	0.600	-23.834	<b>-24.520</b>		61	-16.950	0.600	-29.124	<b>-29.220</b>			
59	-16.910	0.600	-33.959	<b>-33.690</b>		60	-16.930	0.600	-31.520	<b>-31.610</b>		62	-16.950	0.600	-36.725	<b>-35.740</b>			
60	-16.910	0.600	-41.316	<b>-40.430</b>		61	-16.920	0.600	-35.980	<b>-36.030</b>		63	-16.920	0.600	-38.647	<b>-39.500</b>			
61	-16.890	0.736	-43.509	-43.820		62	-16.910	0.850	-40.598	-41.551		64	-16.930	0.834	-44.827	-44.830			
62	-16.890	0.736	-49.945	-49.730		63	-16.910	0.850	-44.875	-44.780		65	-16.920	0.834	-47.671	-48.070			
63	-16.880	0.746	-52.886	-52.690		64	-16.910	0.850	-50.517	-50.230		66	-16.920	0.834	-53.115	-53.380			
64	-16.870	0.746	-57.402	-57.874		65	-16.910	0.850	-53.946	-53.151		67	-16.920	0.834	-56.406	-55.910			
65	-16.870	0.746	-61.018	-60.286		66	-16.910	0.850	-58.732	-58.070		68	-16.920	0.834	-61.050	-60.530			
66	-16.860	0.746	-64.875	-64.916		67	-16.900	0.850	-60.080	-60.324		69	-16.910	0.834	-62.284	-62.375			
67	-16.860	0.788	-65.906	-66.658		68	-16.910	0.850	-65.298	-64.543		70	-16.920	0.834	-67.444	-66.596			
68	-16.860	0.788	-69.951	-70.821		69	-16.910	0.850	-67.113	-66.331		71	-16.910	0.834	-67.915	-67.768			
69	-16.860	0.788	-71.909	-71.979		70	-16.860	0.772	-69.409	-69.774		72	-16.920	0.834	-72.345	-71.426			
70	-16.860	0.788	-75.285	-75.534		71	-16.860	0.772	-71.402	-71.175		73	-16.910	0.834	-72.077	-72.332			
71	-16.860	0.788	-76.607	-76.288		72	-16.860	0.772	-74.804	-74.301		74	-16.920	0.834	-75.800	-75.646			
72	-16.860	0.788	-79.336	-79.423		73	-16.860	0.772	-76.203	-75.227		75	-16.920	0.834	-76.166	-76.214			
73	-16.860	0.788	-80.040	-79.708		74	-16.850	0.772	-77.671	-77.938		76	-16.930	0.834	-79.214	-79.199			
74	-16.860	0.788	-82.143	-82.469		75	-16.850	0.772	-78.485	-78.528		77	-16.820	0.735	-79.264	-79.584			
75	-16.860	0.788	-82.249	-82.418		76	-16.850	0.772	-80.688	-80.936		78	-16.820	0.735	-81.911	-82.017			
76	-16.870	0.788	-85.085	-84.833		77	-16.860	0.772	-82.303	-81.340		79	-16.820	0.735	-82.672	-82.017			
77	-16.770	0.720	-83.941	-84.616		78	-16.860	0.772	-83.949	-83.202		80	-16.820	0.735	-84.823	-84.257			
78	-16.770	0.720	-86.043	-86.509		79	-16.860	0.772	-83.673	-83.129		81	-16.820	0.735	-85.113	-84.192			
79	-16.770	0.720	-86.259	-85.919		80	-16.860	0.772	-84.768	-84.829		82	-16.820	0.735	-86.781	-85.950			
80	-16.770	0.720	-87.898	-87.566		81	-16.760	0.710	-84.905	-84.686		83	-16.820	0.735	-84.667	-84.002			
81	-16.770	0.720	-87.675	-86.958		82	-16.760	0.710	-86.649	-86.015		84	-16.820	0.735	-83.939	-83.748			
82	-16.770	0.720	-88.865	-88.074		83	-16.760	0.710	-84.614	-83.786		85	-16.820	0.735	-81.416	-81.432			
83	-16.770	0.720	-86.252	-85.431		84	-16.760	0.710	-83.994	-83.068		86	-16.820	0.735	-80.269	-80.926			
84	-16.770	0.720	-85.059	-84.533		85	-16.760	0.710	-81.591	-80.751		87	-16.750	0.702	-78.210	-78.147			
85	-16.770	0.720	-82.070	-81.606		86	-16.760	0.710	-80.591	-79.626		88	-16.750	0.702	-77.356	-77.408			
86	-16.770	0.720	-80.490	-80.432		87	-16.750	0.710	-76.372	-76.673		89	-16.750	0.702	-74.774	-74.376			
87	-16.770	0.720	-77.136	-77.067		88	-16.750	0.710	-74.994	-75.444		90	-16.750	0.702	-73.568	-73.680			
88	-16.770	0.720	-75.179	-75.626		89	-16.760	0.710	-73.357	-72.535		91	-16.750	0.702	-70.654	-70.943			
89	-16.770	0.720	-71.471	-72.014		90	-16.760	0.710	-71.632	-71.039		92	-16.750	0.699	-70.456	-70.150			
90	-16.860	0.746	-69.997	-70.398		91	-16.760	0.710	-68.188	-68.301		93	-16.750	0.699	-67.297	-67.330			
91	-16.870	0.746	-66.806	-66.670		92	-16.760	0.710	-66.115	-66.780		94	-16.750	0.699	-65.495	-65.580			
92	-16.880	0.746	-64.994	-64.847		93	-16.740	0.702	-63.392	-63.758		95	-16.750	0.699	-62.025	-62.284			
93	-16.790	0.720	-61.049	-61.225		94	-16.740	0.702	-61.181	-61.568		96	-16.750	0.699	-59.903	-60.202			
94	-16.800	0.720	-59.564	-58.980		95	-16.750	0.702	-58.835	-57.860		97	-16.750	0.699	-56.132	-56.494			
95	-16.800	0.720	-54.881	-54.910		96	-16.750	0.702	-56.314	-55.415		98	-16.750	0.699	-53.697	-53.835			
96	-16.800	0.720	-51.550	-52.220		97	-16.750	0.702	-52.138	-51.449		99	-16.750	0.699	-49.632	-49.724			
97	-16.880	0.736	-48.049	-47.780		98	-16.750	0.702	-49.306	-48.435		100	-16.750	0.699	-46.894	-46.725			
98	-16.890	0.736	-45.525	-44.820		99	-16.750	0.702	-44.837	-44.150		101	-16.750	0.699	-42.542	-42.230			
99	-16.890	0.736	-39.791	-39.930		100	-16.750	0.702	-41.702	-40.770		102	-16.790	0.708	-39.345	-39.010			
100	-16.740	0.703	-37.056	-36.540		101	-16.770	0.708	-35.668	-36.200		103	-16.790	0.708	-34.470	-34.080			
101	-16.740	0.703	-31.941	-31.340		102	-16.770	0.708	-32.066	-32.490		104	-16.790	0.708	-30.897	-31.130			
102	-16.740	0.703	-28.158	<b>-28.260</b>		103	-16.780	0.708	-28.479	<b>-28.070</b>		105	-16.790	0.708	-25.742	<b>-25.740</b>			
103	-16.740	0.703	-22.768	<b>-22.840</b>		104	-16.780	0.708	-24.593	<b>-24.010</b>		106	-16.790	0.708	-21.880	<b>-21.800</b>			
104	-16.740	0.703	-18.701	<b>-18.720</b>		105	-16.780	0.708	-19.120	<b>-18.590</b>		107	-16.7						

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
116	-16.740	0.703	48.978	<b>49.220</b>		117	-16.780	0.708	48.213	<b>47.560</b>		119	-16.790	0.708	50.357	<b>49.660</b>	
117	-16.740	0.703	56.098	<b>56.050</b>		118	-16.780	0.708	53.956	<b>53.030</b>		120	-16.610	0.684	55.599	<b>54.830</b>	
118	-16.740	0.703	61.961	<b>61.510</b>		119	-16.590	0.683	60.500	<b>59.900</b>		121	-16.610	0.684	61.985	<b>61.580</b>	
119	-16.740	0.703	69.304	<b>68.740</b>		120	-16.590	0.683	65.673	<b>65.490</b>		122	-16.610	0.684	67.138	<b>66.820</b>	
120	-16.570	0.682	74.862	<b>74.290</b>		121	-16.590	0.683	72.299	<b>72.320</b>		123	-16.610	0.684	73.728	<b>73.090</b>	
121	-16.570	0.682	81.733	<b>81.470</b>		122	-16.590	0.683	77.686	<b>77.870</b>		124	-16.610	0.684	79.094	<b>78.240</b>	
122	-16.570	0.682	87.357	<b>87.100</b>		123	-16.590	0.683	84.511	<b>84.150</b>		125	-16.610	0.684	85.883	<b>85.060</b>	
123	-16.570	0.682	94.424	<b>93.840</b>		124	-16.590	0.683	90.107	<b>89.760</b>		126	-16.610	0.684	91.457	<b>90.580</b>	
124	-16.570	0.682	100.252	<b>99.460</b>		125	-16.590	0.683	97.128	<b>96.560</b>		127	-16.610	0.684	100.338	<b>99.470</b>	
125	-16.570	0.682	107.510	<b>106.670</b>		126	-16.590	0.683	102.926	<b>102.540</b>		128	-16.620	0.684	106.118	<b>106.830</b>	
126	-16.570	0.682	113.538	<b>112.610</b>		127	-16.590	0.683	112.043	<b>111.400</b>		129	-16.610	0.684	117.042	<b>116.120</b>	
127	-16.570	0.682	122.893	<b>121.940</b>		128	-16.590	0.683	119.931	<b>119.220</b>		130	-16.620	0.684	122.975	<b>123.500</b>	
128	-16.580	0.682	129.153	<b>129.750</b>		129	-16.590	0.683	129.206	<b>128.460</b>		131	-16.420	0.663	133.207	<b>132.300</b>	
129	-16.370	0.661	140.260	<b>139.470</b>		130	-16.590	0.683	137.262	<b>136.360</b>		132	-16.420	0.663	140.503	<b>139.690</b>	
130	-16.370	0.661	147.841	<b>147.570</b>		131	-16.410	0.663	144.381	<b>145.170</b>		133	-16.420	0.663	149.151	<b>148.460</b>	
131	-16.370	0.661	156.792	<b>156.740</b>		132	-16.400	0.663	153.828	<b>152.910</b>		134	-16.420	0.663	156.597	<b>155.900</b>	
132	-16.370	0.661	164.518	<b>164.540</b>		133	-16.410	0.663	160.810	<b>161.680</b>		135	-16.420	0.663	165.383	<b>164.770</b>	
133	-16.370	0.661	173.602	<b>173.680</b>		134	-16.400	0.663	170.423	<b>169.500</b>		136	-16.430	0.663	171.015	<b>171.950</b>	
134	-16.370	0.661	181.470	<b>181.490</b>		135	-16.410	0.663	177.520	<b>178.350</b>		137	-16.430	0.663	179.927	<b>180.740</b>	
135	-16.370	0.661	190.685	<b>190.800</b>		136	-16.410	0.663	185.347	<b>185.970</b>		138	-16.430	0.663	187.652	<b>188.120</b>	
136	-16.370	0.661	198.692	<b>198.680</b>		137	-16.410	0.663	194.506	<b>194.790</b>		139	-16.430	0.663	196.695	<b>196.960</b>	
137	-16.370	0.661	208.035	<b>207.750</b>		138	-16.410	0.663	202.473	<b>202.550</b>		140	-16.430	0.663	204.561	<b>204.430</b>	
138	-16.410	0.663	211.762	<b>211.660</b>		139	-16.410	0.663	211.762	<b>211.660</b>		141	-16.430	0.663	213.734	<b>213.490</b>	
61	59	-16.990	0.600	-5.718	<b>-5.730</b>	62	61	-17.000	0.600	-10.745	<b>-10.850</b>	63	62	-17.010	0.826	-6.783	<b>-7.490</b>
60	-16.990	0.600	-14.506	<b>-14.060</b>		62	-17.000	0.600	-19.415	<b>-18.690</b>		63	-17.000	0.826	-12.728	<b>-12.880</b>	
61	-16.970	0.600	-18.841	<b>-19.570</b>		63	-16.980	0.826	-22.992	<b>-23.230</b>		64	-17.000	0.826	-20.674	<b>-19.780</b>	
62	-16.970	0.600	-26.763	<b>-26.510</b>		64	-16.980	0.826	-30.398	<b>-29.690</b>		65	-16.980	0.826	-23.903	<b>-24.180</b>	
63	-16.950	0.600	-30.226	<b>-30.900</b>		65	-16.960	0.826	-33.099	<b>-33.590</b>		66	-16.980	0.826	-31.000	<b>-30.230</b>	
64	-16.950	0.600	-37.735	<b>-36.750</b>		66	-16.960	0.859	-39.307	-39.150		67	-16.960	0.889	-32.691	-33.513	
65	-16.940	0.840	-39.751	-39.750		67	-16.950	0.859	-42.267	-42.330		68	-16.960	0.889	-38.614	-39.464	
66	-16.930	0.840	-44.440	-45.310		68	-16.950	0.859	-47.804	-47.700		69	-16.960	0.889	-42.376	-42.200	
67	-16.930	0.840	-48.237	-48.220		69	-16.950	0.859	-51.209	-50.280		70	-16.960	0.889	-47.384	-47.236	
68	-16.930	0.840	-53.366	-53.180		70	-16.950	0.859	-55.905	-55.140		71	-16.950	0.889	-48.923	-49.800	
69	-16.930	0.840	-56.375	-55.470		71	-16.940	0.859	-57.169	-57.231		72	-16.960	0.889	-54.383	-54.148	
70	-16.930	0.840	-60.710	-59.770		72	-16.940	0.859	-61.040	-61.376		73	-16.960	0.889	-56.407	-56.244	
71	-16.920	0.840	-61.637	-61.628		73	-16.940	0.859	-62.841	-62.857		74	-16.960	0.889	-59.667	-60.146	
72	-16.920	0.840	-65.193	-65.408		74	-16.950	0.859	-67.281	-66.811		75	-16.900	0.777	-61.874	-61.750	
73	-16.920	0.840	-66.692	-66.764		75	-16.950	0.859	-68.332	-67.992		76	-16.900	0.777	-65.756	-65.398	
74	-16.930	0.840	-70.852	-70.062		76	-16.950	0.859	-70.656	-71.498		77	-16.900	0.777	-67.711	-66.986	
75	-16.930	0.840	-71.646	-71.170		77	-16.860	0.747	-72.269	-72.380		78	-16.890	0.777	-69.584	-69.926	
76	-16.930	0.840	-73.744	-74.073		78	-16.860	0.747	-75.542	-75.456		79	-16.890	0.777	-70.956	-71.309	
77	-16.940	0.840	-75.224	-74.914		79	-16.860	0.747	-76.932	-75.934		80	-16.900	0.777	-75.079	-74.241	
78	-16.840	0.745	-77.516	-77.501		80	-16.860	0.747	-79.679	-78.982		81	-16.900	0.777	-75.905	-75.619	
79	-16.840	0.745	-78.526	-78.212		81	-16.850	0.747	-79.138	-79.517		82	-16.900	0.777	-78.044	-77.992	
80	-16.840	0.745	-80.905	-80.523		82	-16.860	0.747	-82.804	-81.966		83	-16.900	0.777	-76.411	-77.118	
81	-16.840	0.745	-81.422	-81.142		83	-16.860	0.747	-81.279	-80.651		84	-16.910	0.777	-77.570	-77.545	
82	-16.840	0.745	-83.299	-82.961		84	-16.860	0.747	-81.108	-80.996		85	-16.790	0.699	-75.668	-76.297	
83	-16.840	0.745	-81.400	-81.416		85	-16.860	0.747	-79.145	-79.266		86	-16.790	0.699	-76.297	-76.441	
84	-16.840	0.745	-80.869	-81.268		86	-16.780	0.700	-79.296	-79.336		87	-16.790	0.699	-75.195	-74.792	
85	-16.840	0.745	-78.542	-79.454		87	-16.780	0.700	-77.818	-77.136		88	-16.790	0.699	-75.451	-74.653	
86	-16.750	0.695	-78.884	-79.042		88	-16.780	0.700	-77.708	-77.051		89	-16.780	0.699	-72.476	-72.889	
87	-16.750	0.695	-77.142	-76.866		89	-16.770	0.700	-74.371	-74.576		90	-16.790	0.699	-73.890	-73.367	
88	-16.750	0.695	-76.782	-76.064		90	-16.780	0.700	-75.412	-74.763		91	-16.790	0.699	-72.093	-71.738	
89	-16.740	0.695	-73.203	-73.597		91	-16.780	0.700	-73.247	-72.560		92	-16.790	0.699	-71.635	-71.818	
90	-16.750	0.695	-73.994	-73.386		92	-16.780	0.700	-72.429	-72.456		93	-16.790	0.699	-69.506	-70.083	
91	-16.750	0.695	-71.587	-71.254		93	-16.780	0.700	-69.934	-70.191		94	-16.790	0.699	-68.704	-69.459	
92	-16.750	0.695	-70.540	-70.648		94	-16.780	0.700	-68.776	-69.361		95	-16.800	0.699	-67.830	-67.270	
93	-16.750	0.695	-67.814	-68.267		95	-16.780	0.700	-65.960	-66.678		96	-16.790	0.699	-65.115	-66.043	
94	-16.750	0.695	-66.438	-66.940		96	-16.780	0.700	-64.472	-65.252		97	-16.800	0.699	-63.946	-63.493	
95	-16.750	0.695	-63.402	-64.167		97	-16.780	0.700	-61.344	-62.208		98	-16.790	0.699	-60.887	-61.792	
96	-16.750	0.695	-61.706	-62.297		98	-16.780	0.700	-59.534	-60.233		99	-16.790	0.699	-57.811	-58.723	
97	-16.750	0.695	-58.368	-59.106		99											

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
110	-16.790	0.707	-7.602	<b>-7.220</b>		112	-16.800	0.707	-5.121	<b>-5.020</b>		113	-16.810	0.708	-4.394	<b>-4.610</b>	
111	-16.790	0.707	-1.984	<b>-1.580</b>		113	-16.800	0.707	0.454	<b>0.750</b>		114	-16.810	0.708	-0.323	<b>-0.370</b>	
112	-16.790	0.707	2.377	<b>2.960</b>		114	-16.800	0.707	4.787	<b>5.020</b>		115	-16.810	0.708	5.239	<b>5.130</b>	
113	-16.790	0.707	8.251	<b>8.720</b>		115	-16.800	0.707	10.614	<b>10.950</b>		116	-16.810	0.708	9.575	<b>9.610</b>	
114	-16.790	0.707	12.877	<b>13.420</b>		116	-16.800	0.707	15.210	<b>15.430</b>		117	-16.810	0.708	15.389	<b>15.460</b>	
115	-16.790	0.707	19.001	<b>19.390</b>		117	-16.800	0.707	21.285	<b>21.640</b>		118	-16.810	0.708	19.986	<b>20.010</b>	
116	-16.790	0.707	23.885	<b>24.230</b>		118	-16.800	0.707	26.136	<b>26.170</b>		119	-16.810	0.708	26.046	<b>25.940</b>	
117	-16.790	0.707	30.253	<b>30.480</b>		119	-16.800	0.707	32.452	<b>32.680</b>		120	-16.810	0.708	30.897	<b>30.740</b>	
118	-16.790	0.707	35.389	<b>35.410</b>		120	-16.800	0.707	37.552	<b>37.520</b>		121	-16.660	0.685	35.832	<b>36.660</b>	
119	-16.630	0.684	41.379	<b>41.990</b>		121	-16.800	0.707	44.104	<b>43.850</b>		122	-16.650	0.685	42.055	<b>41.370</b>	
120	-16.620	0.684	47.843	<b>47.310</b>		122	-16.800	0.707	49.448	<b>48.530</b>		123	-16.650	0.685	47.862	<b>46.990</b>	
121	-16.620	0.684	53.953	<b>53.390</b>		123	-16.640	0.684	53.989	<b>54.480</b>		124	-16.650	0.685	52.468	<b>51.730</b>	
122	-16.620	0.684	58.838	<b>58.640</b>		124	-16.640	0.684	58.821	<b>59.220</b>		125	-16.650	0.685	58.486	<b>57.690</b>	
123	-16.620	0.684	65.156	<b>64.510</b>		125	-16.640	0.684	65.068	<b>65.620</b>		126	-16.650	0.685	63.309	<b>62.770</b>	
124	-16.620	0.684	70.257	<b>69.680</b>		126	-16.640	0.684	70.114	<b>70.700</b>		127	-16.650	0.685	71.409	<b>70.860</b>	
125	-16.620	0.684	76.778	<b>76.070</b>		127	-16.640	0.684	78.446	<b>79.210</b>		128	-16.650	0.685	78.310	<b>77.750</b>	
126	-16.620	0.684	82.089	<b>81.570</b>		128	-16.640	0.684	85.572	<b>86.120</b>		129	-16.650	0.685	86.584	<b>85.880</b>	
127	-16.620	0.684	90.698	<b>90.050</b>		129	-16.640	0.684	94.074	<b>94.830</b>		130	-16.650	0.685	93.667	<b>92.770</b>	
128	-16.620	0.684	98.093	<b>97.390</b>		130	-16.640	0.684	101.377	<b>101.720</b>		131	-16.660	0.685	100.171	<b>100.640</b>	
129	-16.430	0.662	107.123	<b>106.190</b>		131	-16.640	0.684	110.046	<b>110.040</b>		132	-16.460	0.661	106.969	<b>107.640</b>	
130	-16.430	0.662	113.977	<b>113.430</b>		132	-16.640	0.684	117.524	<b>117.030</b>		133	-16.450	0.661	116.744	<b>115.760</b>	
131	-16.430	0.662	122.191	<b>121.800</b>		133	-16.640	0.684	126.355	<b>125.510</b>		134	-16.450	0.661	123.387	<b>122.790</b>	
132	-16.430	0.662	129.200	<b>129.210</b>		134	-16.650	0.684	132.043	<b>132.590</b>		135	-16.450	0.661	131.359	<b>130.840</b>	
133	-16.430	0.662	137.558	<b>137.650</b>		135	-16.440	0.661	140.462	<b>141.010</b>		136	-16.450	0.661	138.155	<b>137.440</b>	
134	-16.430	0.662	144.719	<b>145.040</b>		136	-16.440	0.661	147.496	<b>147.620</b>		137	-16.450	0.661	146.270	<b>145.480</b>	
135	-16.430	0.662	153.217	<b>153.580</b>		137	-16.440	0.661	155.852	<b>155.980</b>		138	-16.450	0.661	153.216	<b>152.300</b>	
136	-16.430	0.662	160.527	<b>160.590</b>		138	-16.440	0.661	163.033	<b>162.960</b>		139	-16.460	0.661	159.451	<b>160.430</b>	
137	-16.430	0.662	169.163	<b>168.960</b>		139	-16.440	0.661	171.526	<b>171.390</b>		140	-16.460	0.661	166.535	<b>167.420</b>	
138	-16.430	0.662	176.618	<b>176.250</b>		140	-16.440	0.661	178.853	<b>178.370</b>		141	-16.460	0.661	174.916	<b>175.520</b>	
139	-16.430	0.662	185.389	<b>184.850</b>		141	-16.440	0.661	187.479	<b>186.990</b>		142	-16.460	0.661	182.144	<b>182.580</b>	
140	-16.430	0.662	192.986	<b>192.250</b>		142	-16.440	0.661	194.947	<b>194.040</b>		143	-16.460	0.661	190.659	<b>190.860</b>	
141	-16.440	0.662	199.868	<b>200.800</b>		143	-16.440	0.661	203.704	<b>202.830</b>		144	-16.460	0.661	198.029	<b>198.140</b>	
142	-16.440	0.662	207.596	<b>208.400</b>		144	-16.450	0.661	209.251	<b>210.080</b>		145	-16.460	0.661	206.674	<b>206.610</b>	
143	-16.440	0.662	216.616	<b>216.960</b>		145	-16.450	0.661	218.127	<b>219.020</b>		146	-16.460	0.661	214.182	<b>213.950</b>	
144	-16.440	0.662	224.480	<b>224.870</b>		146	-16.450	0.661	225.858	<b>226.380</b>		147	-16.460	0.661	222.956	<b>222.660</b>	
						146	-16.460	0.661	230.599	<b>230.540</b>							
64	64	-17.010	0.826	-10.778	<b>-11.260</b>	65	65	-17.020	0.826	-5.342	<b>-5.370</b>	66	67	-17.020	0.826	-8.530	<b>-9.290</b>
65	-17.000	0.826	-15.801	<b>-15.880</b>		66	-17.020	0.826	-13.487	<b>-12.730</b>		68	-17.020	0.826	-16.349	<b>-16.250</b>	
66	-17.000	0.826	-23.418	<b>-22.620</b>		67	-17.000	0.826	-16.882	<b>-17.520</b>		69	-17.000	0.726	-19.964	<b>-20.610</b>	
67	-16.980	0.826	-26.298	<b>-27.010</b>		68	-17.000	0.826	-24.192	<b>-23.930</b>		70	-17.010	0.826	-27.759	<b>-26.810</b>	
68	-16.980	0.826	-33.087	<b>-33.100</b>		69	-16.990	0.826	-28.083	<b>-28.100</b>		71	-16.990	0.826	-29.990	<b>-30.230</b>	
69	-16.970	0.826	-36.460	-36.060		70	-16.980	0.826	-33.242	-33.053		72	-17.000	0.930	-35.221	-34.931	
70	-16.970	0.889	-41.018	-41.530		71	-16.970	0.826	-36.334	-35.900		73	-17.000	0.930	-38.641	-37.700	
71	-16.970	0.889	-44.475	-44.250		72	-16.960	0.826	-40.687	-40.967		74	-17.000	0.930	-43.214	-42.830	
72	-16.970	0.889	-49.159	-49.090		73	-16.960	0.826	-44.383	-43.600		75	-17.000	0.930	-45.694	-45.382	
73	-16.970	0.889	-51.754	-51.214		74	-16.950	0.826	-47.964	-48.130		76	-17.000	0.930	-49.325	-50.120	
74	-16.970	0.889	-55.571	-55.660		75	-16.950	0.826	-50.936	-50.482		77	-17.010	0.930	-52.324	-52.169	
75	-16.970	0.889	-57.330	-57.632		76	-16.950	0.826	-55.176	-54.541		78	-16.930	0.768	-56.796	-56.570	
76	-16.910	0.773	-61.407	-61.782		77	-16.910	0.767	-56.369	-56.560		79	-16.920	0.768	-58.130	-58.243	
77	-16.910	0.773	-63.847	-63.224		78	-16.910	0.767	-60.620	-60.419		80	-16.920	0.768	-62.199	-62.555	
78	-16.910	0.773	-67.608	-66.960		79	-16.910	0.767	-62.990	-62.368		81	-16.920	0.768	-64.417	-64.196	
79	-16.900	0.773	-68.046	-68.231		80	-16.910	0.767	-66.667	-66.400		82	-16.920	0.768	-67.922	-67.859	
80	-16.910	0.773	-72.658	-71.760		81	-16.910	0.767	-68.487	-67.764		83	-16.920	0.768	-67.706	-67.694	
81	-16.900	0.773	-72.522	-72.927		82	-16.910	0.767	-71.606	-70.743		84	-16.920	0.768	-68.785	-69.310	
82	-16.910	0.773	-76.591	-76.086		83	-16.910	0.767	-70.990	-70.537		85	-16.920	0.768	-68.077	-68.752	
83	-16.910	0.773	-75.457	-75.357		84	-16.910	0.767	-71.682	-71.489		86	-16.840	0.700	-69.162	-70.118	
84	-16.910	0.773	-75.635	-76.269		85	-16.910	0.767	-70.582	-71.106		87	-16.840	0.700	-69.105	-69.143	
85	-16.920	0.773	-75.502	-75.127		86	-16.820	0.699	-71.181	-71.624		88	-16.840	0.700	-70.377	-70.394	
86	-16.810	0.701	-75.096	-75.764		87	-16.820	0.699	-70.788	-70.717		89	-16.840	0.700	-69.953	-69.156	
87	-16.810	0.701	-74.312	-74.189		88	-16.820	0.699	-71.733	-71.314		90	-16.840	0.700	-70.848	-70.529	
88	-16.810	0.701	-74.876	-74.707		89	-16.820	0.699	-70.978	-70.157		91	-16.840	0.700			

Table A continued from previous page

Z	N	Mass excess (MeV)				Z	N	Mass excess (MeV)				Z	N	Mass excess (MeV)			
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.			$\alpha(0)$	$a_a$	Cal.	Ex./Th.			$\alpha(0)$	$a_a$	Cal.	Ex./Th.
102	-16.810	0.701	-54.006	-54.371		103	-16.820	0.699	-53.131	-52.781		105	-16.860	0.709	-49.808	-50.010	
103	-16.810	0.701	-50.605	-50.776		104	-16.820	0.702	-49.526	-50.480		106	-16.860	0.709	-47.789	-47.760	
104	-16.810	0.701	-48.476	-48.150		105	-16.820	0.702	-46.122	-46.710		107	-16.860	0.709	-44.228	-43.740	
105	-16.810	0.701	-44.786	-43.890		106	-16.820	0.702	-43.972	-43.770		108	-16.870	0.713	-40.815	-41.130	
106	-16.820	0.706	-40.500	-40.850		107	-16.850	0.711	-39.066	-39.690		109	-16.870	0.713	-36.852	-36.730	
107	-16.820	0.706	-36.384	-36.210		108	-16.850	0.711	-36.375	-36.510		110	-16.870	0.713	-34.112	-33.610	
108	-16.820	0.706	-33.520	-32.970		109	-16.850	0.711	-32.154	-31.970		111	-16.870	0.713	-29.860	<b>-30.010</b>	
109	-16.820	0.706	-29.124	<b>-29.230</b>		110	-16.850	0.711	-29.166	<b>-29.290</b>		112	-16.870	0.713	-26.824	<b>-26.750</b>	
110	-16.820	0.706	-25.971	<b>-25.810</b>		111	-16.850	0.711	-24.663	<b>-24.590</b>		113	-16.870	0.713	-22.292	<b>-21.940</b>	
111	-16.820	0.706	-21.301	<b>-20.610</b>		112	-16.850	0.711	-21.384	<b>-20.920</b>		114	-16.870	0.713	-18.967	<b>-18.530</b>	
112	-16.820	0.706	-17.866	<b>-17.000</b>		113	-16.850	0.711	-16.606	<b>-16.000</b>		115	-16.870	0.713	-14.160	<b>-13.400</b>	
113	-16.820	0.708	-11.047	<b>-11.550</b>		114	-16.850	0.711	-13.044	<b>-12.140</b>		116	-16.870	0.713	-10.554	<b>-9.890</b>	
114	-16.820	0.708	-7.269	<b>-7.740</b>		115	-16.850	0.711	-7.997	<b>-7.120</b>		117	-16.870	0.713	-5.480	<b>-4.540</b>	
115	-16.820	0.708	-2.003	<b>-2.320</b>		116	-16.830	0.709	-2.552	<b>-3.030</b>		118	-16.860	0.713	0.242	<b>-0.540</b>	
116	-16.820	0.708	2.045	<b>1.840</b>		117	-16.830	0.709	2.707	<b>2.230</b>		119	-16.860	0.713	5.587	<b>4.870</b>	
117	-16.820	0.708	7.566	<b>7.470</b>		118	-16.830	0.709	6.764	<b>6.630</b>		120	-16.870	0.713	7.888	<b>8.610</b>	
118	-16.820	0.708	11.878	<b>11.850</b>		119	-16.830	0.709	12.276	<b>12.130</b>		121	-16.870	0.713	13.477	<b>14.140</b>	
119	-16.820	0.708	17.649	<b>17.860</b>		120	-16.830	0.709	16.595	<b>16.290</b>		122	-16.870	0.713	17.890	<b>18.100</b>	
120	-16.820	0.708	22.218	<b>22.050</b>		121	-16.830	0.709	22.355	<b>21.830</b>		123	-16.870	0.713	23.729	<b>23.320</b>	
121	-16.670	0.685	28.118	<b>28.010</b>		122	-16.690	0.686	25.436	<b>26.180</b>		124	-16.880	0.713	26.498	<b>27.290</b>	
122	-16.670	0.685	32.228	<b>32.310</b>		123	-16.690	0.686	30.723	<b>31.400</b>		125	-16.800	0.701	32.434	<b>32.970</b>	
123	-16.670	0.685	37.759	<b>37.930</b>		124	-16.680	0.686	36.711	<b>35.750</b>		126	-16.800	0.701	36.964	<b>37.220</b>	
124	-16.670	0.685	42.095	<b>42.290</b>		125	-16.680	0.686	42.225	<b>41.480</b>		127	-16.800	0.701	44.746	<b>44.810</b>	
125	-16.670	0.685	47.839	<b>48.310</b>		126	-16.680	0.686	46.558	<b>46.130</b>		128	-16.800	0.701	51.356	<b>50.870</b>	
126	-16.670	0.685	52.396	<b>52.970</b>		127	-16.680	0.686	54.148	<b>53.720</b>		129	-16.800	0.701	59.336	<b>58.690</b>	
127	-16.670	0.685	60.220	<b>61.010</b>		128	-16.680	0.686	60.552	<b>60.210</b>		130	-16.540	0.664	64.217	<b>64.790</b>	
128	-16.670	0.685	66.850	<b>67.510</b>		129	-16.680	0.686	68.323	<b>67.980</b>		131	-16.530	0.664	73.178	<b>72.300</b>	
129	-16.670	0.685	74.851	<b>75.650</b>		130	-16.680	0.686	74.917	<b>74.410</b>		132	-16.530	0.664	79.007	<b>78.460</b>	
130	-16.670	0.685	81.667	<b>82.160</b>		131	-16.680	0.686	82.866	<b>81.890</b>		133	-16.530	0.664	86.168	<b>86.050</b>	
131	-16.670	0.685	89.841	<b>90.040</b>		132	-16.690	0.686	87.675	<b>88.420</b>		134	-16.530	0.664	92.165	<b>92.290</b>	
132	-16.670	0.685	96.838	<b>96.610</b>		133	-16.690	0.686	95.787	<b>96.070</b>		135	-16.530	0.664	99.483	<b>99.840</b>	
133	-16.670	0.685	105.182	<b>104.710</b>		134	-16.690	0.686	102.737	<b>102.690</b>		136	-16.530	0.664	105.644	<b>105.630</b>	
134	-16.670	0.685	112.356	<b>111.360</b>		135	-16.520	0.665	110.061	<b>110.100</b>		137	-16.530	0.664	113.116	<b>113.210</b>	
135	-16.480	0.662	119.253	<b>119.420</b>		136	-16.520	0.665	116.497	<b>116.420</b>		138	-16.530	0.664	119.438	<b>119.340</b>	
136	-16.480	0.662	125.837	<b>125.640</b>		137	-16.520	0.665	124.247	<b>124.020</b>		139	-16.530	0.664	127.059	<b>126.980</b>	
137	-16.480	0.662	133.736	<b>133.520</b>		138	-16.520	0.665	130.842	<b>130.530</b>		140	-16.530	0.664	133.539	<b>133.230</b>	
138	-16.480	0.662	140.474	<b>140.030</b>		139	-16.520	0.665	138.740	<b>138.190</b>		141	-16.530	0.664	141.307	<b>140.850</b>	
139	-16.480	0.662	148.517	<b>148.160</b>		140	-16.520	0.665	145.490	<b>144.720</b>		142	-16.530	0.664	147.940	<b>147.210</b>	
140	-16.480	0.662	155.405	<b>154.730</b>		141	-16.530	0.665	151.473	<b>152.410</b>		143	-16.530	0.664	155.852	<b>155.010</b>	
141	-16.480	0.662	163.588	<b>162.810</b>		142	-16.530	0.665	158.365	<b>159.190</b>		144	-16.530	0.663	160.685	<b>161.630</b>	
142	-16.490	0.662	168.563	<b>169.550</b>		143	-16.530	0.665	166.540	<b>166.980</b>		145	-16.530	0.664	170.690	<b>169.730</b>	
143	-16.490	0.662	176.873	<b>177.790</b>		144	-16.530	0.665	173.581	<b>173.940</b>		146	-16.540	0.664	175.502	<b>176.290</b>	
144	-16.490	0.662	184.043	<b>184.620</b>		145	-16.530	0.665	181.895	<b>181.840</b>		147	-16.540	0.664	183.682	<b>184.510</b>	
145	-16.490	0.662	192.487	<b>193.060</b>		146	-16.530	0.665	189.082	<b>189.070</b>		148	-16.540	0.664	190.749	<b>191.510</b>	
146	-16.490	0.662	199.799	<b>200.240</b>		147	-16.530	0.665	197.531	<b>197.300</b>		149	-16.540	0.664	199.065	<b>200.000</b>	
147	-16.490	0.662	208.374	<b>208.990</b>		148	-16.530	0.665	204.862	<b>204.710</b>		150	-16.570	0.667	206.453	<b>207.420</b>	
148	-16.490	0.662	215.824	<b>216.410</b>		149	-16.530	0.665	213.444	<b>213.250</b>		151	-16.530	0.664	216.891	<b>216.090</b>	
149	-16.490	0.662	224.528	<b>225.370</b>		150	-16.530	0.665	220.914	<b>220.910</b>		152	-16.530	0.664	224.249	<b>223.550</b>	
150	-16.490	0.662	232.114	<b>233.070</b>		151	-16.530	0.665	229.627	<b>229.640</b>		153	-16.530	0.664	232.836	<b>232.540</b>	
						152	-16.530	0.665	237.234	<b>237.740</b>		154	-16.530	0.664	240.330	<b>240.210</b>	
						153	-16.530	0.665	246.075	<b>246.740</b>		155	-16.530	0.664	249.044	<b>249.410</b>	
67	69	-17.030	0.826	-11.115	<b>-11.120</b>	68	70	-17.050	0.826	-10.542	<b>-9.580</b>	69	72	-17.040	0.881	-9.876	<b>-10.030</b>
70	-17.020	0.726	-17.830	<b>-17.470</b>		71	-17.030	0.826	-13.755	<b>-13.680</b>		73	-17.030	0.881	-13.942	<b>-14.060</b>	
71	-17.010	0.826	-21.366	<b>-21.470</b>		72	-17.020	0.826	-19.574	<b>-19.660</b>		74	-17.000	0.708	-18.782	<b>-19.610</b>	
72	-17.000	0.826	-26.701	<b>-26.870</b>		73	-17.010	0.826	-23.372	<b>-23.170</b>		75	-16.990	0.708	-22.943	-22.159	
73	-17.000	0.930	-29.065	-29.317		74	-17.000	0.826	-28.391	-27.930		76	-16.990	0.820	-26.954	-27.583	
74	-17.000	0.930	-34.235	-34.364		75	-17.000	0.870	-31.576	-31.160		77	-16.990	0.820	-31.212	-31.055	
75	-17.000	0.930	-37.318	-37.250		76	-17.000	0.870	-36.903	-36.608		78	-16.990	0.820	-36.695	-35.974	
76	-17.000	0.930	-41.539	-42.048		77	-16.990	0.870	-38.791	-39.240		79	-16.980	0.820	-38.790	-38.765	

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)						
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
92	-16.850	0.700	-67.248	-67.330		93	-16.890	0.712	-65.999	-65.201		95	-16.910	0.720	-61.798	-61.909
93	-16.850	0.700	-66.457	-66.382		94	-16.890	0.712	-66.608	-66.334		96	-16.900	0.712	-63.034	-62.930
94	-16.880	0.712	-68.062	-67.196		95	-16.890	0.712	-65.581	-65.167		97	-16.900	0.712	-61.991	-61.886
95	-16.880	0.712	-66.700	-66.041		96	-16.890	0.712	-65.821	-65.943		98	-16.900	0.712	-62.198	-62.543
96	-16.880	0.712	-66.613	-66.378		97	-16.890	0.712	-64.441	-64.521		99	-16.900	0.712	-60.808	-61.312
97	-16.880	0.712	-64.903	-64.981		98	-16.890	0.712	-64.320	-64.924		100	-16.900	0.712	-60.659	-61.275
98	-16.880	0.712	-64.459	-64.898		99	-16.890	0.712	-62.598	-63.289		101	-16.900	0.712	-58.931	-59.795
99	-16.880	0.712	-62.410	-63.070		100	-16.890	0.712	-62.125	-62.989		102	-16.900	0.712	-58.435	-59.210
100	-16.880	0.712	-61.619	-62.279		101	-16.890	0.712	-60.068	-60.921		103	-16.900	0.712	-56.377	-57.374
101	-16.880	0.712	-59.239	-60.059		102	-16.890	0.712	-59.253	-60.108		104	-16.900	0.712	-55.544	-56.256
102	-16.880	0.712	-58.109	-58.796		103	-16.890	0.712	-56.870	-57.718		105	-16.900	0.712	-53.165	-53.865
103	-16.880	0.712	-55.407	-56.238		104	-16.890	0.712	-55.721	-56.483		106	-16.900	0.712	-52.003	-52.311
104	-16.880	0.712	-53.947	-54.518		105	-16.890	0.712	-53.021	-53.654		107	-16.900	0.712	-49.310	-49.371
105	-16.880	0.712	-50.932	-51.484		106	-16.890	0.712	-51.546	-51.949		108	-16.900	0.712	-47.827	-47.570
106	-16.880	0.712	-49.149	-49.351		107	-16.890	0.712	-48.537	-48.652		109	-16.900	0.712	-44.828	-44.240
107	-16.880	0.712	-45.829	-45.870		108	-16.890	0.712	-46.745	-46.631		110	-16.890	0.712	-41.242	-41.900
108	-16.880	0.712	-43.733	-43.300		109	-16.890	0.712	-43.434	-42.858		111	-16.920	0.719	-38.486	-38.170
109	-16.900	0.718	-39.408	-39.390		110	-16.910	0.718	-40.702	-40.260		112	-16.920	0.719	-36.193	-35.440
110	-16.900	0.718	-36.843	-36.280		111	-16.910	0.718	-36.935	-36.080		113	-16.920	0.719	-32.412	-31.490
111	-16.900	0.718	-32.767	-32.130		112	-16.900	0.718	-32.567	-33.180		114	-16.920	0.719	-29.814	<b>-29.680</b>
112	-16.900	0.718	-29.898	<b>-29.790</b>		113	-16.910	0.718	-30.306	<b>-30.130</b>		115	-16.920	0.719	-25.743	<b>-25.440</b>
113	-16.900	0.718	-25.532	<b>-25.390</b>		114	-16.910	0.718	-27.437	<b>-27.240</b>		116	-16.920	0.719	-22.846	<b>-22.330</b>
114	-16.900	0.718	-22.365	<b>-22.040</b>		115	-16.910	0.718	-23.091	<b>-22.610</b>		117	-16.920	0.719	-18.491	<b>-17.820</b>
115	-16.900	0.718	-17.718	<b>-17.350</b>		116	-16.910	0.718	-19.927	<b>-19.480</b>		118	-16.910	0.719	-13.433	<b>-14.270</b>
116	-16.900	0.718	-14.260	<b>-13.760</b>		117	-16.910	0.718	-15.301	<b>-14.550</b>		119	-16.920	0.719	-10.670	<b>-9.770</b>
117	-16.900	0.718	-9.336	<b>-8.820</b>		118	-16.910	0.718	-11.851	<b>-11.060</b>		120	-16.920	0.719	-7.199	<b>-6.630</b>
118	-16.900	0.718	-5.595	<b>-4.800</b>		119	-16.910	0.718	-6.953	<b>-6.070</b>		121	-16.920	0.719	-2.295	<b>-1.830</b>
119	-16.900	0.718	-0.402	0.150		120	-16.910	0.718	-3.223	<b>-2.830</b>		122	-16.920	0.719	1.454	<b>1.660</b>
120	-16.900	0.718	3.615	<b>3.840</b>		121	-16.910	0.718	1.942	<b>2.320</b>		123	-16.920	0.719	6.622	<b>6.060</b>
121	-16.900	0.718	9.071	9.000		122	-16.910	0.718	5.945	<b>5.880</b>		124	-16.930	0.719	8.713	<b>9.550</b>
122	-16.900	0.718	13.359	<b>12.990</b>		123	-16.910	0.718	11.370	<b>10.610</b>		125	-16.850	0.705	13.519	<b>14.460</b>
123	-16.910	0.718	17.172	<b>17.760</b>		124	-16.830	0.703	13.615	<b>14.170</b>		126	-16.850	0.705	17.364	<b>18.270</b>
124	-16.800	0.701	22.260	<b>21.720</b>		125	-16.830	0.703	18.824	<b>19.450</b>		127	-16.850	0.705	24.435	<b>25.050</b>
125	-16.800	0.701	27.689	<b>27.080</b>		126	-16.830	0.703	22.879	<b>23.350</b>		128	-16.850	0.705	30.353	<b>30.640</b>
126	-16.800	0.701	31.957	<b>31.320</b>		127	-16.830	0.703	30.169	<b>30.500</b>		129	-16.850	0.705	37.634	<b>37.650</b>
127	-16.810	0.701	37.529	<b>38.470</b>		128	-16.830	0.703	36.299	<b>36.100</b>		130	-16.850	0.705	43.770	<b>43.580</b>
128	-16.810	0.701	43.863	<b>44.490</b>		129	-16.830	0.703	43.793	<b>43.640</b>		131	-16.850	0.705	51.256	<b>50.280</b>
129	-16.810	0.701	51.565	<b>51.980</b>		130	-16.830	0.703	50.136	<b>49.420</b>		132	-16.610	0.668	55.287	<b>55.910</b>
130	-16.580	0.669	59.098	<b>58.100</b>		131	-16.590	0.668	57.462	<b>56.580</b>		133	-16.610	0.668	61.807	<b>62.740</b>
131	-16.580	0.669	65.995	<b>65.240</b>		132	-16.590	0.668	62.915	<b>62.210</b>		134	-16.600	0.668	69.213	<b>68.520</b>
132	-16.580	0.669	71.728	<b>71.260</b>		133	-16.590	0.668	69.695	<b>69.410</b>		135	-16.600	0.668	75.912	<b>75.280</b>
133	-16.580	0.669	78.793	<b>78.450</b>		134	-16.590	0.668	75.324	<b>75.200</b>		136	-16.600	0.668	81.473	<b>80.910</b>
134	-16.580	0.669	84.700	<b>84.650</b>		135	-16.590	0.668	82.270	<b>82.370</b>		137	-16.600	0.668	88.336	<b>87.500</b>
135	-16.580	0.669	91.927	<b>91.730</b>		136	-16.590	0.668	88.072	<b>87.780</b>		138	-16.600	0.668	94.068	<b>93.270</b>
136	-16.560	0.666	97.325	<b>97.590</b>		137	-16.590	0.668	95.179	<b>94.930</b>		139	-16.600	0.668	101.093	<b>100.140</b>
137	-16.560	0.666	104.613	<b>104.690</b>		138	-16.590	0.668	101.150	<b>100.700</b>		140	-16.610	0.668	104.903	<b>105.900</b>
138	-16.560	0.666	110.758	<b>110.860</b>		139	-16.590	0.668	108.416	<b>107.970</b>		141	-16.610	0.668	112.076	<b>112.960</b>
139	-16.560	0.666	118.201	<b>118.060</b>		140	-16.590	0.668	114.553	<b>113.830</b>		142	-16.610	0.668	118.131	<b>118.870</b>
140	-16.560	0.666	124.508	<b>124.330</b>		141	-16.590	0.668	121.974	<b>121.150</b>		143	-16.610	0.668	125.458	<b>125.950</b>
141	-16.560	0.666	132.101	<b>131.630</b>		142	-16.600	0.668	126.172	<b>127.070</b>		144	-16.610	0.668	131.674	<b>132.020</b>
142	-16.560	0.666	138.566	<b>137.920</b>		143	-16.600	0.668	133.735	<b>134.620</b>		145	-16.610	0.668	139.152	<b>139.350</b>
143	-16.560	0.666	146.307	<b>145.370</b>		144	-16.600	0.668	140.182	<b>140.710</b>		146	-16.610	0.668	145.527	<b>145.690</b>
144	-16.560	0.666	152.926	<b>151.950</b>		145	-16.600	0.668	147.893	<b>148.390</b>		147	-16.610	0.668	153.153	<b>153.160</b>
145	-16.570	0.666	158.693	<b>159.660</b>		146	-16.600	0.668	154.496	<b>154.760</b>		148	-16.610	0.668	159.682	<b>159.650</b>
146	-16.570	0.666	165.454	<b>166.380</b>		147	-16.600	0.668	162.353	<b>162.610</b>		149	-16.610	0.668	167.453	<b>167.260</b>
147	-16.570	0.666	173.471	<b>174.200</b>		148	-16.600	0.668	169.107	<b>169.080</b>		150	-16.610	0.668	174.134	<b>173.930</b>
148	-16.570	0.666	180.381	<b>181.140</b>		149	-16.600	0.668	177.106	<b>177.100</b>		151	-16.610	0.668	182.047	<b>181.720</b>
149	-16.570	0.666	188.537	<b>189.230</b>		150	-16.600	0.668	184.011	<b>183.810</b>		152	-16.610	0.668	188.877	<b>188.650</b>
150	-16.570	0.666	195.592	<b>196.380</b>		151	-16.600	0.668	192.149	<b>192.040</b>		153	-16.610	0.668	196.929	<b>196.830</b>
151	-16.570	0.666	203.885	<b>204.630</b>		152	-16.600	0.668	199.200	<b>199.070</b>		154	-16.610	0.668	203.904	<b>204.210</b>
152	-16.570	0.666</td														

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)					
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.		
80	-17.000	0.813	-39.296	-38.830		82	-17.000	0.797	-39.374	-38.375	84	-17.000	0.770	-38.185	-37.820
81	-16.990	0.813	-41.229	-41.542		83	-16.990	0.797	-39.407	-39.667	85	-16.990	0.770	-38.355	-38.855
82	-16.990	0.813	-45.869	-46.270		84	-16.990	0.797	-42.190	-42.545	86	-17.000	0.770	-42.893	-42.102
83	-16.990	0.813	-46.803	-47.160		85	-16.990	0.797	-43.187	-43.700	87	-16.990	0.770	-42.532	-42.853
84	-17.000	0.813	-50.495	-49.932		86	-17.000	0.797	-46.969	-46.440	88	-17.000	0.770	-46.572	-45.939
85	-17.000	0.813	-50.852	-50.503		87	-17.000	0.797	-47.426	-47.212	89	-17.000	0.770	-47.305	-46.316
86	-17.000	0.813	-52.420	-53.266		88	-17.000	0.797	-49.091	-49.709	90	-17.000	0.770	-49.251	-49.168
87	-17.010	0.813	-53.776	-53.420		89	-16.930	0.717	-49.822	-50.270	91	-17.000	0.770	-49.500	-49.269
88	-16.920	0.711	-56.112	-56.010		90	-16.930	0.717	-52.160	-52.562	92	-17.000	0.770	-50.956	-51.818
89	-16.910	0.711	-55.335	-55.834		91	-16.930	0.717	-52.835	-52.832	93	-17.000	0.770	-50.734	-51.636
90	-16.910	0.711	-57.413	-58.163		92	-16.930	0.717	-54.763	-54.791	94	-16.950	0.718	-54.493	-53.859
91	-16.910	0.711	-57.826	-57.834		93	-16.930	0.717	-55.046	-54.642	95	-16.940	0.718	-53.052	-53.468
92	-16.910	0.711	-59.506	-59.821		94	-16.930	0.717	-56.574	-56.442	96	-16.940	0.718	-54.500	-55.361
93	-16.910	0.711	-59.541	-59.294		95	-16.930	0.717	-56.477	-56.021	97	-16.940	0.718	-54.344	-54.717
94	-16.910	0.711	-60.834	-61.012		96	-16.930	0.717	-57.617	-57.526	98	-16.940	0.718	-55.408	-56.254
95	-16.910	0.711	-60.500	-60.295		97	-16.930	0.717	-57.148	-57.073	99	-16.940	0.718	-54.884	-55.431
96	-16.910	0.711	-61.415	-61.594		98	-16.930	0.717	-57.909	-58.083	100	-16.940	0.718	-55.574	-56.402
97	-16.910	0.711	-60.722	-60.590		99	-16.930	0.717	-57.079	-57.306	101	-16.940	0.718	-54.693	-55.412
98	-16.910	0.711	-61.270	-61.580		100	-16.930	0.717	-57.470	-57.828	102	-16.940	0.718	-55.018	-55.845
99	-16.910	0.711	-60.228	-60.376		101	-16.930	0.717	-56.288	-56.736	103	-16.940	0.718	-53.790	-54.482
100	-16.910	0.711	-60.418	-60.764		102	-16.930	0.717	-56.320	-56.881	104	-16.940	0.718	-53.759	-54.576
101	-16.910	0.711	-59.034	-59.307		103	-16.930	0.717	-54.794	-55.570	105	-16.940	0.718	-52.191	-52.881
102	-16.910	0.711	-58.875	-59.255		104	-16.930	0.717	-54.475	-55.166	106	-16.940	0.718	-51.813	-52.435
103	-16.910	0.711	-57.159	-57.551		105	-16.930	0.717	-52.615	-53.382	107	-16.940	0.718	-49.914	-50.463
104	-16.910	0.711	-56.660	-56.945		106	-16.930	0.717	-51.953	-52.384	108	-16.940	0.718	-49.198	-49.779
105	-16.910	0.711	-54.620	-54.696		107	-16.930	0.717	-49.767	-50.338	109	-16.940	0.718	-46.975	-47.403
106	-16.910	0.711	-53.789	-53.491		108	-16.930	0.717	-48.772	-49.059	110	-16.940	0.718	-45.929	-46.050
107	-16.910	0.711	-51.433	-50.986		109	-16.930	0.717	-46.267	-46.676	111	-16.940	0.718	-43.391	-43.284
108	-16.910	0.711	-50.279	-49.677		110	-16.930	0.717	-44.946	-44.797	112	-16.940	0.718	-42.023	-41.499
109	-16.900	0.711	-45.825	-46.640		111	-16.930	0.717	-42.130	-41.770	113	-16.940	0.718	-39.177	-38.320
110	-16.900	0.711	-44.345	-44.720		112	-16.930	0.717	-40.491	-39.716	114	-16.930	0.718	-35.634	-36.424
111	-16.900	0.711	-41.370	-41.088		113	-16.920	0.717	-35.533	-36.300	115	-16.930	0.718	-32.478	-33.000
112	-16.930	0.720	-38.860	-38.900		114	-16.950	0.723	-34.833	-33.960	116	-16.930	0.718	-30.478	-30.830
113	-16.930	0.720	-35.354	-35.000		115	-16.950	0.723	-31.256	-30.320	117	-16.940	0.721	-26.611	-27.150
114	-16.930	0.720	-33.023	-32.600		116	-16.940	0.723	-26.969	-27.770	118	-16.940	0.721	-24.228	-24.800
115	-16.930	0.720	-29.221	-28.480		117	-16.940	0.723	-23.089	-23.820	119	-16.880	0.706	-21.324	<b>-21.650</b>
116	-16.930	0.720	-26.587	<b>-26.890</b>		118	-16.950	0.723	-22.250	<b>-21.850</b>	120	-16.880	0.706	-19.061	<b>-19.400</b>
117	-16.930	0.720	-22.497	<b>-22.440</b>		119	-16.950	0.723	-18.091	<b>-17.560</b>	121	-16.880	0.706	-15.382	<b>-15.310</b>
118	-16.930	0.720	-19.568	<b>-19.490</b>		120	-16.950	0.723	-15.078	<b>-14.940</b>	122	-16.880	0.706	-12.844	<b>-12.890</b>
119	-16.930	0.720	-15.197	<b>-14.900</b>		121	-16.950	0.723	-10.638	<b>-10.680</b>	123	-16.880	0.706	-8.903	<b>-9.010</b>
120	-16.930	0.720	-11.979	<b>-12.210</b>		122	-16.950	0.723	-7.336	<b>-7.700</b>	124	-16.880	0.706	-6.096	<b>-6.410</b>
121	-16.930	0.720	-7.333	<b>-7.510</b>		123	-16.960	0.723	-4.561	<b>-3.820</b>	125	-16.880	0.706	-1.899	<b>-1.880</b>
122	-16.930	0.720	-3.833	<b>-4.470</b>		124	-16.960	0.723	-0.988	<b>-0.740</b>	126	-16.880	0.706	1.171	<b>1.090</b>
123	-16.940	0.720	-0.848	<b>-0.190</b>		125	-16.870	0.706	3.485	<b>3.770</b>	127	-16.880	0.706	7.438	<b>7.260</b>
124	-16.860	0.705	2.349	<b>2.920</b>		126	-16.870	0.706	6.824	<b>7.210</b>	128	-16.880	0.706	12.574	<b>11.950</b>
125	-16.860	0.705	7.065	<b>7.820</b>		127	-16.870	0.706	13.369	<b>13.430</b>	129	-16.880	0.706	19.062	<b>18.570</b>
126	-16.860	0.705	10.642	<b>11.200</b>		128	-16.870	0.706	18.776	<b>18.540</b>	130	-16.880	0.706	24.424	<b>23.720</b>
127	-16.860	0.705	17.434	<b>17.960</b>		129	-16.870	0.706	25.539	<b>25.310</b>	131	-16.880	0.706	31.128	<b>30.410</b>
128	-16.860	0.705	23.081	<b>23.160</b>		130	-16.870	0.706	31.170	<b>30.800</b>	132	-16.880	0.672	35.685	<b>35.300</b>
129	-16.860	0.705	30.087	<b>30.170</b>		131	-16.670	0.672	36.395	<b>37.210</b>	133	-16.680	0.672	41.568	<b>41.780</b>
130	-16.860	0.705	35.954	<b>35.760</b>		132	-16.660	0.672	43.235	<b>42.430</b>	134	-16.680	0.672	46.324	<b>46.690</b>
131	-16.860	0.705	43.169	<b>42.560</b>		133	-16.660	0.672	49.374	<b>48.890</b>	135	-16.680	0.672	52.386	<b>53.350</b>
132	-16.650	0.672	48.036	<b>47.820</b>		134	-16.660	0.672	54.382	<b>54.200</b>	136	-16.680	0.672	57.330	<b>58.310</b>
133	-16.650	0.672	54.427	<b>54.660</b>		135	-16.660	0.672	60.698	<b>60.810</b>	137	-16.670	0.672	65.658	<b>64.760</b>
134	-16.650	0.672	59.681	60.000		136	-16.660	0.672	65.890	<b>66.090</b>	138	-16.680	0.672	68.694	<b>69.570</b>
135	-16.650	0.672	66.246	<b>66.930</b>		137	-16.660	0.672	72.379	<b>72.220</b>	139	-16.680	0.673	76.560	<b>76.110</b>
136	-16.650	0.672	71.681	<b>72.150</b>		138	-16.660	0.672	77.751	<b>77.610</b>	140	-16.680	0.672	80.408	<b>81.180</b>
137	-16.650	0.672	78.417	<b>78.720</b>		139	-16.660	0.672	84.410	<b>84.150</b>	141	-16.680	0.672	86.987	<b>87.820</b>
138	-16.650	0.672	84.029	<b>84.160</b>		140	-16.660	0.672	89.958	<b>89.650</b>	142	-16.680	0.672	92.467	<b>93.050</b>
139	-16.650	0.672	90.931	<b>91.030</b>		141	-16.660	0.672	96.783	<b>96.220</b>	143	-16.680	0.672	99.210	<b>99.820</b>
140	-16.650	0.672	96.717	<b>96.490</b>		142	-16.660	0.672	102.503	<b>101.880</b>	144	-16.680	0.672	104.861	<b>105.180</b>
141	-16.650	0.672	103.783	<b>103.500</b>		143	-16.660	0.672	109.491	<b>108.590</b>	145	-16.680	0.672	111.767	<b>112.050</b>
142	-16.650	0.672	109.738	<b>109.060</b>		144	-16.670	0.673	114.933	<b>114.300</b>	146	-16.680	0.672	117.586	<b>117.620</b>
143	-16.650	0.672	116.964	<b>116</b>											

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
154	-16.660	0.672	192.248	<b>191.990</b>		156	-16.670	0.672	196.964	<b>197.350</b>		158	-16.680	0.672	200.492	<b>200.520</b>	
155	-16.660	0.672	200.355	<b>200.400</b>		157	-16.670	0.672	204.989	<b>205.320</b>		159	-16.680	0.672	208.440	<b>208.470</b>	
156	-16.660	0.672	207.398	<b>207.480</b>		158	-16.670	0.672	211.961	<b>212.490</b>		160	-16.680	0.672	215.346	<b>215.150</b>	
157	-16.660	0.672	215.644	<b>215.810</b>		159	-16.670	0.672	220.123	<b>220.440</b>		161	-16.680	0.672	223.432	<b>223.320</b>	
158	-16.660	0.672	222.831	<b>223.050</b>		160	-16.670	0.672	227.239	<b>227.600</b>		162	-16.680	0.672	230.481	<b>230.120</b>	
159	-16.660	0.672	231.213	<b>231.380</b>		161	-16.670	0.672	235.538	<b>235.710</b>		163	-16.680	0.672	238.702	<b>238.880</b>	
160	-16.660	0.672	238.542	<b>238.500</b>		162	-16.670	0.672	242.794	<b>242.930</b>		164	-16.680	0.672	245.891	<b>246.340</b>	
161	-16.660	0.672	247.056	<b>247.100</b>		163	-16.670	0.672	251.226	<b>251.660</b>		165	-16.792	0.683	255.977	<b>255.270</b>	
162	-16.660	0.672	254.525	<b>254.460</b>		164	-16.670	0.672	258.621	<b>259.600</b>		166	-16.792	0.683	263.704	<b>262.950</b>	
163	-16.660	0.672	263.170	<b>263.510</b>		165	-16.660	0.672	269.542	<b>268.620</b>		167	-16.793	0.683	272.351	<b>271.700</b>	
164	-16.660	0.672	270.774	<b>271.400</b>		166	-16.660	0.672	277.084	<b>276.600</b>		168	-16.792	0.683	280.458	<b>279.640</b>	
73	78	-17.050	0.845	-4.252	-4.190	74	80	-17.060	0.845	-7.535	-7.260	75	81	-17.070	0.845	-2.441	-2.350
79	-17.050	0.845	-9.552	<b>-8.560</b>		81	-17.060	0.845	-12.577	<b>-11.620</b>		82	-17.070	0.845	-9.090	<b>-8.390</b>	
80	-17.040	0.845	-14.474	<b>-14.610</b>		82	-17.060	0.845	-18.757	<b>-17.780</b>		83	-17.060	0.845	-10.488	<b>-11.000</b>	
81	-17.040	0.845	-19.032	<b>-18.780</b>		83	-17.050	0.845	-19.682	-19.690		84	-17.060	0.845	-14.595	-14.805	
82	-17.010	0.772	-23.176	-23.988		84	-17.020	0.762	-22.799	-23.693		85	-17.030	0.766	-16.081	-16.878	
83	-17.010	0.772	-25.837	-26.001		85	-17.020	0.762	-25.425	-25.434		86	-17.030	0.766	-20.272	-20.843	
84	-17.010	0.772	-29.721	-29.596		86	-17.020	0.762	-29.265	-29.329		87	-17.030	0.766	-22.741	-22.453	
85	-17.010	0.772	-31.848	-31.118		87	-17.020	0.762	-31.382	-30.507		88	-17.030	0.766	-26.407	-26.002	
86	-17.010	0.772	-35.192	-34.439		88	-17.020	0.762	-34.708	-33.999		89	-17.030	0.766	-28.372	-27.472	
87	-17.010	0.772	-36.801	-35.824		89	-17.010	0.762	-34.702	-34.908		90	-17.030	0.766	-31.526	-30.659	
88	-17.010	0.772	-39.619	-38.779		90	-17.020	0.762	-39.158	-38.236		91	-17.020	0.766	-31.340	-31.837	
89	-17.010	0.772	-40.722	-39.781		91	-17.010	0.762	-38.651	-38.861		92	-17.030	0.766	-35.657	-34.834	
90	-17.010	0.772	-43.029	-42.535		92	-17.020	0.762	-42.639	-41.887		93	-17.030	0.766	-36.652	-35.795	
91	-17.010	0.772	-43.641	-43.283		93	-17.010	0.762	-41.645	-42.093		94	-17.030	0.766	-38.824	-38.409	
92	-17.010	0.772	-45.449	-45.848		94	-17.020	0.762	-45.178	-44.893		95	-17.030	0.766	-39.353	-38.904	
93	-17.010	0.772	-45.583	-46.098		95	-17.020	0.762	-45.398	-44.918		96	-17.030	0.766	-41.053	-41.250	
94	-16.960	0.719	-48.835	-48.351		96	-17.020	0.762	-46.799	-47.291		97	-17.030	0.766	-41.129	-41.567	
95	-16.950	0.719	-47.709	-48.394		97	-16.970	0.723	-46.878	-47.086		98	-16.970	0.716	-43.216	-43.554	
96	-16.950	0.719	-49.472	-50.290		98	-16.970	0.723	-48.511	-49.097		99	-16.970	0.716	-43.719	-43.673	
97	-16.950	0.719	-49.634	-50.138		99	-16.970	0.723	-48.563	-48.727		100	-16.970	0.716	-45.413	-45.288	
98	-16.950	0.719	-51.008	-51.720		100	-16.970	0.723	-49.808	-50.227		101	-16.970	0.716	-45.549	-45.063	
99	-16.950	0.719	-50.798	-51.330		101	-16.970	0.723	-49.488	-49.633		102	-16.970	0.716	-46.869	-46.269	
100	-16.950	0.719	-51.792	-52.397		102	-16.970	0.723	-50.355	-50.642		103	-16.970	0.721	-45.077	-45.653	
101	-16.950	0.719	-51.220	-51.741		103	-16.970	0.723	-49.674	-49.702		104	-16.970	0.721	-45.927	-46.584	
102	-16.950	0.719	-51.845	-52.409		104	-16.970	0.723	-50.172	-50.407		105	-16.970	0.721	-45.250	-45.837	
103	-16.950	0.719	-50.920	-51.365		105	-16.970	0.723	-49.137	-49.295		106	-16.970	0.721	-45.740	-46.517	
104	-16.950	0.719	-51.184	-51.715		106	-16.970	0.723	-49.276	-49.636		107	-16.970	0.721	-44.717	-45.446	
105	-16.950	0.719	-49.914	-50.598		107	-16.970	0.723	-47.897	-48.234		108	-16.970	0.721	-44.854	-45.810	
106	-16.950	0.719	-49.826	-50.357		108	-16.970	0.723	-47.684	-48.246		109	-16.970	0.721	-43.495	-44.220	
107	-16.950	0.719	-48.221	-48.934		109	-16.970	0.723	-45.970	-46.366		110	-16.970	0.721	-43.288	-43.819	
108	-16.950	0.719	-47.790	-48.439		110	-16.970	0.723	-45.415	-45.705		111	-16.970	0.721	-41.599	-41.927	
109	-16.950	0.719	-45.856	-46.431		111	-16.970	0.723	-43.372	-43.388		112	-16.970	0.721	-41.057	-41.217	
110	-16.950	0.719	-45.091	-45.294		112	-16.970	0.723	-42.482	-42.509		113	-16.970	0.721	-39.047	-39.017	
111	-16.950	0.719	-42.837	-42.839		113	-16.970	0.723	-40.120	-39.904		114	-16.970	0.721	-38.177	-37.979	
112	-16.950	0.719	-41.745	-41.394		114	-16.970	0.723	-38.904	-38.668		115	-16.970	0.721	-35.854	-35.583	
113	-16.950	0.719	-39.179	-38.608		115	-16.970	0.723	-36.229	-35.809		116	-16.970	0.721	-34.663	-34.350	
114	-16.950	0.719	-37.768	-36.896		116	-16.970	0.723	-34.694	-34.369		117	-16.970	0.721	-32.033	-31.589	
115	-16.950	0.719	-34.898	-33.910		117	-16.970	0.723	-31.714	-31.176		118	-16.970	0.721	-30.531	-30.232	
116	-16.940	0.719	-31.285	-31.960		118	-16.970	0.723	-29.867	-29.620		119	-16.970	0.721	-27.602	-27.260	
117	-16.940	0.719	-28.107	-28.720		119	-16.900	0.706	-25.861	-26.190		120	-16.910	0.706	-25.266	-25.560	
118	-16.880	0.704	-25.931	-26.520		120	-16.900	0.706	-24.156	-24.410		121	-16.910	0.706	-22.436	-22.360	
119	-16.890	0.706	-23.223	-23.100		121	-16.900	0.706	-21.043	-20.740		122	-16.910	0.706	-20.728	-20.350	
120	-16.890	0.706	-21.242	-20.810		122	-16.900	0.706	-19.057	-18.740		123	-16.910	0.706	-17.628	-16.990	
121	-16.890	0.706	-17.848	-17.130		123	-16.900	0.706	-15.675	-14.870		124	-16.910	0.706	-15.642	-14.730	
122	-16.890	0.706	-15.589	<b>-15.190</b>		124	-16.900	0.706	-13.415	<b>-13.820</b>		125	-16.910	0.706	-12.276	<b>-11.920</b>	
123	-16.890	0.706	-11.930	<b>-11.730</b>		125	-16.900	0.706	-9.771	<b>-9.810</b>		126	-16.910	0.706	-10.019	<b>-9.400</b>	
124	-16.890	0.706	-9.399	<b>-9.160</b>		126	-16.900	0.706	-7.241	<b>-7.280</b>		127	-16.910	0.706	-4.592	<b>-4.140</b>	
125	-16.890	0.706	-5.481	<b>-5.020</b>		127	-16.900	0.706	-1.533	<b>-1.520</b>		128	-16.910	0.706	-0.278	<b>0.110</b>	
126	-16.890	0.706	-2.684	<b>-2.050</b>		128	-16.900	0.706	3.055	<b>2.680</b>		129	-16.910	0.706	5.379	<b>5.880</b>	
127	-16.890	0.706	3.301	<b>3.690</b>		129	-16.900	0.706	8.990	<b>8.870</b>		130	-16.910	0.706	9.928	<b>10.460</b>	

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
141	-16.690	0.672	81.012	<b>81.560</b>		143	-16.700	0.672	85.659	<b>85.390</b>		144	-16.710	0.672	85.191	<b>84.720</b>	
142	-16.690	0.672	86.257	<b>86.720</b>		144	-16.700	0.672	90.850	<b>90.440</b>		145	-16.710	0.672	91.396	<b>90.950</b>	
143	-16.690	0.672	92.763	<b>93.210</b>		145	-16.700	0.672	97.289	<b>96.910</b>		146	-16.710	0.672	96.530	<b>96.100</b>	
144	-16.690	0.672	98.182	<b>98.600</b>		146	-16.700	0.672	102.653	<b>102.090</b>		147	-16.710	0.672	102.901	<b>102.340</b>	
145	-16.690	0.672	104.852	<b>105.070</b>		147	-16.700	0.672	109.255	<b>108.760</b>		148	-16.710	0.672	108.207	<b>107.630</b>	
146	-16.690	0.672	110.442	<b>110.630</b>		148	-16.700	0.672	114.789	<b>114.060</b>		149	-16.710	0.672	114.740	<b>114.150</b>	
147	-16.690	0.672	117.273	<b>117.320</b>		149	-16.700	0.672	121.551	<b>120.880</b>		150	-16.710	0.672	120.214	<b>119.620</b>	
148	-16.690	0.672	123.029	<b>122.960</b>		150	-16.700	0.672	127.250	<b>126.320</b>		151	-16.710	0.672	126.906	<b>126.220</b>	
149	-16.690	0.672	130.018	<b>129.790</b>		151	-16.700	0.672	134.169	<b>133.370</b>		152	-16.720	0.673	132.089	<b>131.980</b>	
150	-16.690	0.672	135.938	<b>135.600</b>		152	-16.700	0.672	140.032	<b>139.150</b>		153	-16.720	0.673	138.968	<b>139.050</b>	
151	-16.690	0.672	143.081	<b>142.610</b>		153	-16.710	0.673	146.743	<b>146.590</b>		154	-16.720	0.673	144.800	<b>145.100</b>	
152	-16.690	0.672	149.162	<b>148.800</b>		154	-16.710	0.673	152.796	<b>152.580</b>		155	-16.720	0.673	151.832	<b>152.290</b>	
153	-16.690	0.672	156.456	<b>156.150</b>		155	-16.710	0.673	160.051	<b>160.140</b>		156	-16.720	0.673	157.824	<b>158.430</b>	
154	-16.690	0.672	162.694	<b>162.620</b>		156	-16.710	0.673	166.262	<b>166.380</b>		157	-16.720	0.673	165.006	<b>165.640</b>	
155	-16.690	0.672	170.136	<b>170.180</b>		157	-16.710	0.673	173.665	<b>174.040</b>		158	-16.720	0.673	171.155	<b>171.870</b>	
156	-16.690	0.672	176.529	<b>176.720</b>		158	-16.710	0.673	180.029	<b>180.220</b>		159	-16.720	0.673	178.485	<b>179.060</b>	
157	-16.690	0.672	184.116	<b>184.350</b>		159	-16.710	0.673	187.578	<b>187.820</b>		160	-16.720	0.673	184.786	<b>185.340</b>	
158	-16.690	0.672	190.660	<b>191.070</b>		160	-16.710	0.673	194.094	<b>194.040</b>		161	-16.720	0.673	192.261	<b>192.670</b>	
159	-16.690	0.672	198.390	<b>198.730</b>		161	-16.710	0.673	201.785	<b>201.820</b>		162	-16.890	0.691	199.203	<b>199.140</b>	
160	-16.690	0.672	205.082	<b>205.350</b>		162	-16.710	0.673	208.449	<b>208.180</b>		163	-16.890	0.691	207.449	<b>206.970</b>	
161	-16.800	0.683	212.800	<b>213.060</b>		163	-16.910	0.693	216.359	<b>216.470</b>		164	-16.890	0.691	214.682	<b>213.970</b>	
162	-16.800	0.683	220.021	<b>219.920</b>		164	-16.910	0.693	223.873	<b>223.630</b>		165	-16.890	0.691	223.077	<b>222.110</b>	
163	-16.800	0.683	228.415	<b>228.230</b>		165	-16.910	0.693	232.553	<b>232.090</b>		166	-16.892	0.691	229.983	<b>229.390</b>	
164	-16.800	0.683	235.785	<b>235.550</b>		166	-16.910	0.693	240.221	<b>239.430</b>		167	-16.892	0.691	238.524	<b>237.740</b>	
165	-16.800	0.683	244.319	<b>244.280</b>		167	-16.912	0.693	248.564	<b>247.810</b>		168	-16.892	0.691	246.063	<b>245.150</b>	
166	-16.800	0.683	251.836	<b>252.030</b>		168	-16.912	0.693	256.382	<b>255.550</b>		169	-16.896	0.691	253.771	<b>253.530</b>	
167	-16.800	0.683	260.508	<b>260.450</b>		169	-16.916	0.693	264.377	<b>263.990</b>		170	-16.896	0.691	261.455	<b>260.970</b>	
168	-16.810	0.684	268.428	<b>268.240</b>		170	-16.920	0.693	271.363	<b>271.580</b>		171	-16.900	0.691	269.294	<b>269.360</b>	
169	-16.810	0.684	277.273	<b>277.240</b>		171	-16.916	0.693	281.442	<b>280.550</b>		172	-16.898	0.691	277.614	<b>276.840</b>	
170	-16.810	0.684	285.111	<b>284.950</b>		172	-16.920	0.693	288.567	<b>288.020</b>		173	-16.920	0.693	286.078	<b>285.280</b>	
						173	-16.920	0.693	297.804	<b>296.960</b>		174	-16.902	0.691	293.550	<b>292.940</b>	
											175	-16.902	0.691	302.642	<b>301.730</b>		
76	83	-17.080	0.845	-3.728	<b>-3.940</b>	77	85	-17.090	0.845	-1.578	<b>-1.720</b>	78	87	-17.100	0.845	-0.759	-0.318
84	-17.080	0.845	-8.308	<b>-8.340</b>		86	-17.090	0.845	-5.940	-5.310		88	-17.080	0.798	-3.935	-4.783	
85	-17.080	0.845	-11.082	-10.196		87	-17.060	0.780	-6.851	-7.483		89	-17.080	0.798	-6.771	-6.753	
86	-17.060	0.795	-14.285	-14.500		88	-17.060	0.780	-11.159	-11.595		90	-17.080	0.798	-10.745	-11.010	
87	-17.060	0.795	-16.884	-16.336		89	-17.060	0.780	-13.763	-13.306		91	-17.080	0.798	-13.026	-12.464	
88	-17.060	0.795	-20.646	-20.425		90	-17.060	0.780	-17.529	-17.072		92	-17.080	0.798	-16.440	-16.299	
89	-17.060	0.795	-22.689	-21.747		91	-17.060	0.780	-19.611	-18.666		93	-17.080	0.798	-18.180	-17.467	
90	-17.060	0.795	-25.890	-25.432		92	-17.060	0.780	-22.850	-22.093		94	-17.080	0.798	-21.047	-21.107	
91	-17.060	0.795	-27.392	-26.499		93	-17.050	0.780	-22.724	-23.182		95	-17.080	0.798	-22.261	-21.937	
92	-17.060	0.795	-30.046	-29.995		94	-17.060	0.780	-27.148	-26.412		96	-17.080	0.798	-24.596	-25.318	
93	-17.060	0.795	-31.021	-30.723		95	-17.020	0.740	-27.054	-27.379		97	-17.080	0.798	-25.296	-25.709	
94	-17.060	0.795	-33.142	-33.926		96	-17.020	0.740	-29.849	-30.268		98	-17.050	0.755	-29.405	-28.934	
95	-17.060	0.795	-33.604	-34.297		97	-17.020	0.740	-31.046	-30.786		99	-17.050	0.755	-30.302	-29.370	
96	-17.020	0.743	-37.558	-37.244		98	-17.020	0.740	-33.409	-33.395		100	-17.050	0.755	-32.341	-31.997	
97	-17.020	0.743	-38.365	-37.438		99	-17.020	0.740	-34.191	-33.882		101	-17.050	0.755	-32.810	-32.268	
98	-17.020	0.743	-40.345	-39.995		100	-17.020	0.740	-36.133	-36.047		102	-17.050	0.755	-34.414	-34.430	
99	-17.020	0.743	-40.737	-40.105		101	-17.020	0.740	-36.511	-36.254		103	-17.050	0.755	-34.466	-34.381	
100	-17.020	0.743	-42.295	-42.131		102	-17.020	0.740	-38.041	-38.082		104	-17.050	0.755	-35.647	-36.168	
101	-16.980	0.720	-41.111	-41.956		103	-17.020	0.740	-38.025	-37.978		105	-17.050	0.755	-35.291	-35.773	
102	-16.980	0.720	-42.666	-43.544		104	-17.020	0.740	-39.155	-39.463		106	-16.990	0.718	-36.636	-37.332	
103	-16.980	0.720	-42.682	-43.020		105	-17.020	0.740	-38.754	-39.052		107	-16.990	0.718	-36.605	-36.688	
104	-16.980	0.720	-43.864	-44.356		106	-16.980	0.718	-39.533	-40.202		108	-16.990	0.718	-37.714	-37.864	
105	-16.980	0.720	-43.524	-43.550		107	-16.980	0.718	-39.194	-39.611		109	-16.990	0.718	-37.339	-36.685	
106	-16.980	0.720	-44.343	-44.609		108	-16.980	0.718	-40.002	-40.336		110	-16.990	0.718	-38.098	-37.821	
107	-16.980	0.720	-43.655	-43.664		109	-16.980	0.718	-39.322	-39.172		111	-16.990	0.718	-37.387	-36.469	
108	-16.980	0.720	-44.120	-44.253		110	-16.980	0.718	-39.783	-39.549		112	-16.990	0.718	-37.804	-37.307	
109	-16.980	0.720	-43.093	-42.806		111	-16.980	0.718	-38.771	-38.345		113	-16.980	0.718	-34.856	-35.698	
110	-16.980	0.720	-43.212	-43.000		112	-16.980	0.718	-38.893	-38.450		114	-16.990	0.718	-36.849	-36.289	
111	-16.980	0.720	-41.853	-41.219		113	-16.980	0.718	-37.556	-36.754		115	-16.980	0.718	-3		

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
125	-16.920	0.706	-15.489	-14.840		127	-16.930	0.706	-10.345	-9.570	129	-16.940	0.706	-4.705	-4.140		
126	-16.920	0.706	-13.499	-12.530		128	-16.930	0.706	-6.576	-5.600	130	-16.940	0.706	-0.960	-0.500		
127	-16.910	0.706	-6.317	-7.270		129	-16.930	0.706	-1.469	-1.270	131	-16.940	0.706	4.108	4.540		
128	-16.920	0.706	-4.304	-4.710		130	-16.930	0.706	2.542	2.870	132	-16.940	0.706	8.093	8.190		
129	-16.920	0.706	1.080	1.060		131	-16.930	0.706	7.880	8.500	133	-16.940	0.706	13.391	13.810		
130	-16.920	0.706	5.362	5.250		132	-16.930	0.706	12.128	12.560	134	-16.940	0.706	17.611	17.690		
131	-16.920	0.706	10.974	11.290		133	-16.930	0.706	17.692	18.200	135	-16.940	0.706	23.132	23.440		
132	-16.920	0.706	15.491	15.560		134	-16.930	0.706	22.173	22.550	136	-16.940	0.706	27.582	27.350		
133	-16.920	0.706	21.326	21.460		135	-16.930	0.706	27.958	28.040	137	-16.940	0.706	33.322	33.010		
134	-16.920	0.706	26.072	25.620		136	-16.930	0.706	32.665	32.330	138	-16.940	0.706	37.997	37.010		
135	-16.920	0.706	32.125	31.490		137	-16.930	0.706	38.667	37.920	139	-16.950	0.706	41.782	42.740		
136	-16.930	0.706	34.975	35.770		138	-16.940	0.706	41.447	42.280	140	-16.950	0.706	46.668	46.850		
137	-16.730	0.671	40.850	41.730		139	-16.740	0.672	48.167	47.970	141	-16.750	0.671	51.787	52.590		
138	-16.720	0.670	45.890	46.120		140	-16.730	0.671	53.197	52.380	142	-16.750	0.671	55.829	56.560		
139	-16.720	0.671	52.535	52.080		141	-16.730	0.671	58.550	58.080	143	-16.740	0.670	62.008	62.320		
140	-16.720	0.671	56.864	56.470		142	-16.730	0.671	62.830	62.410	144	-16.740	0.671	67.563	66.610		
141	-16.720	0.671	62.456	62.280		143	-16.730	0.671	68.360	68.150	145	-16.740	0.671	73.037	72.470		
142	-16.720	0.671	66.970	66.770		144	-16.740	0.672	72.016	72.800	146	-16.740	0.671	77.456	76.950		
143	-16.730	0.672	71.958	72.890		145	-16.740	0.672	77.746	78.680	147	-16.740	0.671	83.102	82.860		
144	-16.730	0.672	76.680	77.530		146	-16.740	0.673	83.894	83.520	148	-16.740	0.671	87.698	87.420		
145	-16.720	0.671	83.367	83.770		147	-16.740	0.673	89.832	89.460	149	-16.740	0.671	93.513	93.550		
146	-16.730	0.673	89.070	88.560		148	-16.740	0.673	94.717	94.380	150	-16.740	0.671	98.284	98.310		
147	-16.730	0.673	95.240	94.810		149	-16.740	0.673	100.822	100.470	151	-16.820	0.683	105.505	104.620		
148	-16.730	0.673	100.352	99.790		150	-16.730	0.672	106.520	105.560	152	-16.821	0.683	110.605	109.710		
149	-16.730	0.673	106.687	106.250		151	-16.810	0.682	111.328	111.860	153	-16.820	0.683	117.368	116.420		
150	-16.730	0.673	111.970	111.370		152	-16.820	0.684	118.023	117.320	154	-16.821	0.683	122.641	121.770		
151	-16.720	0.672	119.017	118.020		153	-16.820	0.683	123.037	123.970	155	-16.820	0.683	129.574	128.660		
152	-16.720	0.672	124.439	123.460		154	-16.820	0.683	128.755	129.700	156	-16.828	0.683	133.379	134.170		
153	-16.740	0.674	130.090	130.500		155	-16.820	0.683	135.670	136.610	157	-16.821	0.683	141.880	141.060		
154	-16.740	0.674	135.736	136.160		156	-16.820	0.683	141.557	142.420	158	-16.830	0.683	145.602	146.570		
155	-16.740	0.674	142.579	143.390		157	-16.820	0.683	148.634	149.260	159	-16.830	0.683	152.616	153.500		
156	-16.740	0.674	148.387	149.180		158	-16.820	0.683	154.688	155.170	160	-16.830	0.683	158.618	159.090		
157	-16.739	0.674	155.617	156.410		159	-16.820	0.683	161.923	162.100	161	-16.830	0.683	165.790	166.120		
158	-16.740	0.674	161.351	162.200		160	-16.820	0.683	168.141	168.020	162	-16.830	0.683	171.955	171.930		
159	-16.740	0.674	168.499	169.490		161	-16.820	0.683	175.531	175.050	163	-16.830	0.683	179.281	179.420		
160	-16.740	0.674	174.622	175.320		162	-16.820	0.683	181.910	181.200	164	-16.830	0.683	185.606	185.660		
161	-16.740	0.674	181.916	182.670		163	-16.820	0.683	189.452	188.570	165	-16.830	0.683	193.084	193.590		
162	-16.740	0.674	188.193	188.840		164	-16.820	0.683	195.989	195.160	166	-16.830	0.683	199.565	199.980		
163	-16.738	0.674	196.109	196.690		165	-16.820	0.683	203.680	203.150	167	-16.780	0.678	207.925	207.720		
164	-17.030	0.705	204.365	203.390		166	-16.820	0.683	210.371	209.880	168	-16.780	0.678	214.389	214.500		
165	-17.034	0.705	212.084	211.410		167	-16.820	0.683	218.209	217.700	169	-16.776	0.678	222.978	222.260		
166	-17.040	0.705	218.314	218.430		168	-16.790	0.680	225.169	224.660	170	-16.776	0.678	229.595	228.890		
167	-17.040	0.705	227.144	226.580		169	-16.790	0.680	233.046	232.680	171	-16.776	0.678	237.339	236.640		
168	-17.042	0.705	234.495	233.760		170	-16.788	0.680	240.426	239.720	172	-16.778	0.678	243.601	243.150		
169	-17.046	0.705	242.498	242.090		171	-16.790	0.680	247.949	247.420	173	-16.778	0.678	251.481	250.980		
170	-17.050	0.705	249.505	248.950		172	-16.790	0.680	254.979	254.390	174	-16.780	0.678	257.880	257.700		
171	-16.816	0.683	257.973	257.250		173	-16.790	0.680	263.133	262.440	175	-16.778	0.678	266.400	265.750		
172	-16.816	0.683	265.312	264.520		174	-16.788	0.680	270.808	269.980	176	-16.778	0.678	273.443	272.520		
173	-16.818	0.683	273.279	272.900		175	-16.790	0.680	278.594	278.020	177	-16.780	0.678	281.081	280.660		
174	-16.820	0.683	280.258	279.950		176	-16.790	0.680	285.906	285.250	178	-16.780	0.678	288.260	287.800		
175	-16.816	0.683	289.857	289.210		177	-16.790	0.680	294.326	293.420	179	-16.780	0.678	296.537	296.510		
176	-16.820	0.683	296.469	296.450		178	-16.790	0.680	301.775	300.840	180	-16.780	0.678	303.851	303.950		
177	-16.818	0.683	305.702	304.920		179	-16.790	0.680	310.324	309.600	181	-16.780	0.678	312.256	312.700		
178	-16.780	0.678	312.228	311.715		180	-16.780	0.678	319.626	319.703	182	-16.780	0.678	320.520			
79	88	-17.110	0.845	4.464	4.260	80	90	-17.120	0.845	5.353	5.415	81	92	-17.130	0.845	7.768	8.640
89	-17.110	0.845	1.616	2.530		91	-17.090	0.783	4.208	3.339	93	-17.120	0.845	7.035	6.370		
90	-17.090	0.801	-1.561	-1.788		92	-17.090	0.783	-0.144	-1.061	94	-17.130	0.845	1.758	2.500		
91	-17.090	0.801	-4.221	-3.703		93	-17.090	0.783	-2.843	-2.661	95	-17.080	0.765	1.459	0.585		
92	-17.090	0.801	-8.002	-7.562		94	-17.090	0.783	-6.664	-6.641	96	-17.080	0.765	-2.421	-3.340		
93	-17.080	0.801	-8.392	-9.318		95	-17.090	0.783	-8.850	-7.969	97	-17.080	0.765	-4.701	-4.613		
94	-17.090	0.801	-13.338	-12.832		96	-17.090	0.783	-12.154	-11.785	98	-17.080	0.765	-8.099	-8.270		
95	-17.080	0.801	-13.172	-14.058		97	-17.080	0.783	-12.070	-12.776	99	-17.080	0.765	-9.915	-9.390		
96	-17.090	0.801	-17.598	-17.404		98	-17.090	0.783	-16.639	-16.315	100	-17.080	0.765	-12.843	-12.799		
97	-17.090	0.801	-18.649	-18.521		99	-17.090	0.783	-17.839	-16.933	101	-17.070	0.765	-12.385	-13.327		
98	-17.090	0.801	-20.807</td														

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)								
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
108	-16.990	0.715	-32.694	-33.029		110	-17.050	0.743	-30.750	-31.371		112	-17.010	0.716	-27.619	-27.477
109	-16.990	0.715	-32.682	-32.371		111	-17.050	0.743	-30.140	-30.592		113	-17.010	0.716	-27.515	-26.937
110	-16.990	0.715	-33.798	-33.582		112	-17.000	0.713	-32.766	-32.011		114	-17.010	0.716	-28.515	-28.155
111	-16.990	0.715	-33.450	-32.834		113	-16.990	0.713	-30.500	-31.062		115	-17.010	0.716	-28.084	-27.497
112	-16.990	0.715	-34.224	-33.798		114	-16.990	0.713	-31.265	-32.184		116	-17.010	0.716	-28.750	-28.354
113	-16.990	0.715	-33.549	-32.772		115	-16.990	0.713	-30.598	-31.013		117	-17.010	0.716	-28.000	-27.529
114	-16.990	0.715	-33.990	-33.405		116	-16.990	0.713	-31.036	-31.826		118	-17.010	0.716	-28.341	-28.059
115	-16.990	0.715	-32.994	-32.212		117	-16.990	0.713	-30.056	-30.540		119	-17.010	0.716	-27.278	-27.047
116	-16.990	0.715	-33.108	-32.567		118	-16.990	0.713	-30.175	-30.954		120	-17.010	0.716	-27.300	-27.181
117	-16.990	0.715	-31.800	-31.139		119	-16.990	0.713	-28.888	-29.546		121	-17.010	0.716	-25.931	-25.980
118	-16.990	0.715	-31.596	-31.140		120	-16.990	0.713	-28.694	-29.503		122	-17.010	0.716	-25.642	-25.761
119	-16.990	0.715	-29.982	-29.581		121	-16.990	0.713	-27.108	-27.663		123	-17.010	0.716	-23.975	-24.346
120	-16.990	0.715	-29.466	-29.094		122	-16.990	0.713	-26.609	-27.345		124	-17.010	0.716	-23.382	-23.821
121	-16.990	0.715	-27.554	-27.240		123	-16.990	0.713	-24.730	-25.269		125	-17.010	0.716	-21.422	-22.253
122	-16.990	0.715	-26.733	-26.401		124	-16.990	0.713	-23.932	-24.690		126	-17.010	0.716	-20.531	-21.034
123	-16.990	0.715	-24.529	-24.353		125	-16.990	0.713	-21.767	-22.288		127	-17.010	0.716	-16.518	-16.750
124	-16.990	0.715	-23.411	-23.143		126	-16.990	0.713	-20.677	-20.946		128	-17.010	0.716	-13.580	-13.645
125	-16.990	0.715	-20.921	-20.390		127	-16.990	0.713	-16.459	-16.487		129	-17.010	0.716	-9.310	-9.247
126	-16.990	0.715	-19.511	-18.570		128	-16.990	0.713	-13.321	-13.265		130	-17.010	0.716	-6.108	-6.078
127	-16.970	0.711	-14.086	-14.190		129	-16.990	0.713	-8.852	-8.610		131	-17.010	0.716	-1.587	-1.551
128	-16.970	0.711	-10.727	-10.640		130	-16.990	0.713	-5.457	-5.300		132	-16.990	0.712	2.565	1.784
129	-16.970	0.711	-6.033	-5.910		131	-16.980	0.711	-0.423	-0.390		133	-16.990	0.712	7.226	6.465
130	-16.970	0.711	-2.422	-2.230		132	-16.980	0.711	3.169	3.020		134	-16.990	0.712	10.828	10.030
131	-16.970	0.711	2.513	2.680		133	-16.980	0.711	8.071	8.200		135	-16.990	0.712	15.726	14.870
<b>132</b>	-16.970	0.711	<b>6.372</b>	<b>6.470</b>		134	-16.980	0.711	11.909	11.770		136	-16.990	0.712	19.572	18.660
<b>133</b>	-16.970	0.711	11.542	<b>11.570</b>		135	-16.980	0.711	17.044	17.110		137	-16.990	0.712	24.703	23.710
134	-16.970	0.711	15.643	<b>15.440</b>		136	-16.980	0.711	21.122	20.920		<b>138</b>	-16.990	0.712	28.787	<b>28.010</b>
135	-16.970	0.711	21.045	<b>20.870</b>		<b>137</b>	-16.980	0.711	26.486	<b>26.190</b>		<b>139</b>	-16.990	0.711	33.027	<b>33.130</b>
136	-16.970	0.711	25.383	<b>24.790</b>		<b>138</b>	-16.980	0.711	30.798	<b>29.860</b>		<b>140</b>	-17.000	0.712	36.253	<b>36.950</b>
137	-16.840	0.685	30.134	<b>30.140</b>		<b>139</b>	-16.980	0.710	35.227	<b>35.350</b>		<b>141</b>	-16.860	0.685	41.405	<b>42.250</b>
<b>138</b>	-16.830	0.684	34.986	<b>34.140</b>		<b>140</b>	-16.840	0.684	40.048	<b>39.180</b>		<b>142</b>	-16.860	0.685	45.145	<b>46.050</b>
139	-16.830	0.684	40.039	<b>39.570</b>		<b>141</b>	-16.840	0.684	45.055	<b>44.670</b>		<b>143</b>	-16.860	0.685	50.127	<b>50.930</b>
140	-16.830	0.684	44.029	<b>43.670</b>		<b>142</b>	-16.840	0.684	49.010	<b>48.280</b>		<b>144</b>	-16.860	0.685	54.070	<b>54.880</b>
141	-16.830	0.684	49.278	<b>49.170</b>		<b>143</b>	-16.840	0.684	54.211	<b>53.700</b>		<b>145</b>	-16.860	0.685	59.246	<b>60.080</b>
142	-16.830	0.684	53.469	<b>53.340</b>		<b>144</b>	-16.840	0.684	58.366	<b>57.650</b>		<b>146</b>	-16.860	0.685	63.387	<b>64.230</b>
143	-16.830	0.684	58.909	<b>58.580</b>		<b>145</b>	-16.840	0.684	63.758	<b>63.160</b>		<b>147</b>	-16.860	0.685	68.753	<b>69.460</b>
144	-16.830	0.684	63.298	<b>62.880</b>		<b>146</b>	-16.840	0.684	68.108	<b>67.280</b>		<b>148</b>	-16.860	0.685	73.089	<b>73.680</b>
145	-16.830	0.684	68.926	<b>68.370</b>		<b>147</b>	-16.840	0.684	73.686	<b>72.880</b>		<b>149</b>	-16.860	0.685	78.641	<b>79.010</b>
146	-16.830	0.684	73.509	<b>72.850</b>		<b>148</b>	-16.840	0.683	76.795	<b>77.090</b>		<b>150</b>	-16.860	0.685	83.168	<b>83.400</b>
147	-16.830	0.684	79.320	<b>78.510</b>		<b>149</b>	-16.849	0.684	81.928	<b>82.790</b>		<b>151</b>	-16.860	0.685	88.902	<b>88.990</b>
148	-16.840	0.685	83.306	<b>83.030</b>		<b>150</b>	-16.850	0.684	86.420	<b>87.190</b>		<b>152</b>	-16.860	0.685	93.616	<b>93.730</b>
149	-16.840	0.684	87.805	<b>88.750</b>		<b>151</b>	-16.850	0.684	92.349	<b>93.140</b>		<b>153</b>	-16.860	0.685	99.528	<b>99.800</b>
150	-16.840	0.684	92.753	<b>93.490</b>		<b>152</b>	-16.850	0.684	97.254	<b>97.900</b>		<b>154</b>	-16.860	0.685	104.427	<b>104.820</b>
151	-16.840	0.684	98.911	<b>99.420</b>		<b>153</b>	-16.850	0.684	103.359	<b>104.300</b>		<b>155</b>	-16.860	0.685	110.514	<b>111.030</b>
152	-16.840	0.684	104.041	<b>104.570</b>		<b>154</b>	-16.850	0.684	108.445	<b>109.340</b>		<b>156</b>	-16.860	0.685	115.593	<b>116.210</b>
153	-16.840	0.684	110.374	<b>110.910</b>		<b>155</b>	-16.841	0.684	116.837	<b>115.870</b>		<b>157</b>	-16.860	0.685	121.851	<b>122.440</b>
154	-16.840	0.684	115.682	<b>116.280</b>		<b>156</b>	-16.842	0.684	121.874	<b>121.100</b>		<b>158</b>	-16.860	0.685	127.107	<b>127.720</b>
155	-16.840	0.684	122.184	<b>122.830</b>		<b>157</b>	-16.848	0.684	126.905	<b>127.670</b>		<b>159</b>	-16.860	0.685	133.534	<b>133.960</b>
156	-16.840	0.684	127.668	<b>128.400</b>		<b>158</b>	-16.850	0.684	131.869	<b>132.850</b>		<b>160</b>	-16.864	0.686	139.854	<b>139.190</b>
157	-16.840	0.684	134.337	<b>134.930</b>		<b>159</b>	-16.850	0.684	138.480	<b>139.460</b>		<b>161</b>	-16.870	0.686	145.030	<b>145.690</b>
158	-16.840	0.684	139.993	<b>140.470</b>		<b>160</b>	-16.850	0.684	144.088	<b>144.780</b>		<b>162</b>	-16.866	0.686	151.633	<b>151.120</b>
159	-16.840	0.684	146.824	<b>147.040</b>		<b>161</b>	-16.850	0.684	150.861	<b>151.520</b>		<b>163</b>	-16.866	0.686	158.423	<b>157.900</b>
160	-16.840	0.684	152.649	<b>152.640</b>		<b>162</b>	-16.850	0.684	156.637	<b>157.010</b>		<b>164</b>	-16.864	0.686	164.715	<b>163.950</b>
161	-16.840	0.684	159.641	<b>159.420</b>		<b>163</b>	-16.850	0.684	163.570	<b>164.070</b>		<b>165</b>	-16.870	0.686	170.190	<b>170.780</b>
162	-16.840	0.684	165.631	<b>165.180</b>		<b>164</b>	-16.862	0.686	170.728	<b>170.000</b>		<b>166</b>	-16.862	0.685	176.026	<b>176.310</b>
163	-16.840	0.684	172.780	<b>172.290</b>		<b>165</b>	-16.860	0.686	178.380	<b>177.540</b>		<b>167</b>	-16.860	0.685	183.589	<b>183.150</b>
164	-16.840	0.684	178.932	<b>178.550</b>		<b>166</b>	-16.868	0.686	182.590	<b>183.340</b>		<b>168</b>	-16.860	0.685	189.680	<b>188.860</b>
165	-16.856	0.686	186.676	<b>186.150</b>		<b>167</b>	-16.862	0.686	191.382	<b>190.490</b>		<b>169</b>	-16.862	0.685	196.403	<b>195.770</b>
166	-16.856	0.686	193.059	<b>192.730</b>		<b>168</b>	-16.850	0.684	196.203	<b>196.260</b>		<b>170</b>	-16.862	0.685	202.651	<b>201.670&lt;/</b>

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
182	-16.850	0.684	309.480	<b>309.270</b>		184	-16.860	0.684	312.149	<b>312.360</b>		186	-16.980	0.694	320.100	<b>319.930</b>	
183	-16.854	0.684	316.992	<b>317.570</b>		185	-16.860	0.684	322.360	<b>322.350</b>		187	-16.980	0.694	330.595	<b>329.960</b>	
184	-16.850	0.684	325.652	<b>325.290</b>		186	-16.860	0.684	331.623	<b>330.650</b>		188	-16.983	0.694	339.345	<b>338.600</b>	
82	93	-17.130	0.845	14.640	<b>14.320</b>	83	95	-17.140	0.845	18.801	<b>18.480</b>	84	97	-17.160	0.845	19.886	<b>20.670</b>
94	-17.130	0.845	10.683	<b>9.980</b>		96	-17.140	0.845	15.032	<b>14.460</b>		98	-17.160	0.845	16.296	<b>16.090</b>	
95	-17.130	0.845	8.403	<b>8.000</b>		97	-17.140	0.845	12.917	<b>12.280</b>		99	-17.160	0.845	14.337	<b>13.690</b>	
96	-17.110	0.786	3.269	3.573		98	-17.150	0.845	7.951	<b>8.550</b>		100	-17.170	0.845	9.509	<b>9.660</b>	
97	-17.100	0.786	2.653	2.052		99	-17.150	0.845	6.420	<b>6.380</b>		101	-17.170	0.845	8.125	<b>7.790</b>	
98	-17.110	0.786	-2.637	-1.941		100	-17.160	0.845	2.022	<b>2.840</b>		102	-17.180	0.845	3.855	4.102	
99	-17.100	0.786	-2.733	-3.111		101	-17.080	0.747	1.895	1.254		103	-17.180	0.845	3.030	2.824	
100	-17.110	0.786	-7.539	-6.825		102	-17.080	0.747	-1.514	-2.236		104	-17.100	0.751	0.064	-0.544	
101	-17.100	0.786	-7.128	-7.580		103	-17.080	0.747	-3.393	-3.145		105	-17.100	0.751	-1.682	-1.422	
102	-17.110	0.786	-11.462	-11.052		104	-17.080	0.747	-6.371	-6.383		106	-17.100	0.751	-4.511	-4.563	
103	-17.110	0.786	-12.406	-11.541		105	-17.080	0.747	-7.836	-7.195		107	-17.100	0.751	-5.844	-5.069	
104	-17.110	0.786	-14.431	-14.681		106	-17.080	0.747	-10.393	-10.065		108	-17.100	0.751	-8.255	-8.066	
105	-17.110	0.786	-14.911	-14.987		107	-17.080	0.747	-11.452	-10.596		109	-17.100	0.751	-9.183	-8.325	
106	-17.120	0.786	-18.347	-17.811		108	-17.080	0.747	-13.600	-13.239		110	-17.100	0.751	-11.185	-11.005	
107	-17.020	0.716	-17.027	-17.844		109	-17.080	0.747	-14.263	-13.535		111	-17.100	0.751	-11.719	-11.117	
108	-17.030	0.716	-21.270	-20.417		110	-17.080	0.747	-16.009	-15.885		112	-17.100	0.751	-13.321	-13.469	
109	-17.020	0.716	-20.245	-20.291		111	-17.080	0.747	-16.287	-16.023		113	-17.100	0.751	-13.469	-13.393	
110	-17.020	0.716	-22.228	-22.552		112	-17.080	0.747	-17.641	-18.026		114	-17.100	0.751	-14.681	-15.473	
111	-17.020	0.716	-22.758	-22.229		113	-17.080	0.747	-17.541	-18.009		115	-17.100	0.751	-14.452	-15.239	
112	-17.020	0.716	-24.389	-24.208		114	-17.030	0.717	-19.525	-19.687		116	-17.040	0.717	-16.272	-16.942	
113	-17.020	0.716	-24.580	-23.738		115	-17.030	0.717	-19.664	-19.374		117	-17.040	0.717	-16.377	-16.521	
114	-17.020	0.716	-25.867	-25.348		116	-17.030	0.717	-20.888	-20.798		118	-17.040	0.717	-17.555	-17.942	
115	-17.020	0.716	-25.728	-24.745		117	-17.030	0.717	-20.701	-20.371		119	-17.040	0.717	-17.338	-17.311	
116	-17.020	0.716	-26.679	-26.067		118	-17.030	0.717	-21.591	-21.429		120	-17.040	0.717	-18.187	-18.341	
117	-17.020	0.716	-26.217	-25.232		119	-17.030	0.717	-21.085	-20.751		121	-17.040	0.717	-17.655	-17.521	
118	-17.020	0.716	-26.839	-26.251		120	-17.030	0.717	-21.650	-21.525		122	-17.040	0.717	-18.184	-18.189	
119	-17.020	0.716	-26.062	-25.271		121	-17.030	0.717	-20.831	-20.646		123	-17.040	0.717	-17.343	-17.146	
120	-17.020	0.716	-26.363	-25.941		122	-17.030	0.717	-21.079	-21.066		124	-17.040	0.717	-17.558	-17.469	
121	-17.020	0.716	-25.277	-24.786		123	-17.030	0.717	-19.954	-20.028		125	-17.040	0.717	-16.416	-16.366	
122	-17.020	0.716	-25.265	-25.110		124	-17.030	0.717	-19.891	-20.055		126	-17.040	0.717	-16.324	-15.953	
123	-17.020	0.716	-23.877	-23.770		125	-17.030	0.717	-18.468	-18.870		127	-17.040	0.717	-13.136	-12.432	
124	-17.020	0.716	-23.557	-23.786		126	-17.030	0.717	-18.100	-18.259		128	-17.040	0.717	-11.004	-10.369	
125	-17.020	0.716	-21.875	-22.452		127	-17.030	0.717	-14.628	-14.792		129	-17.040	0.717	-7.549	-6.654	
126	-17.020	0.716	-21.255	-21.749		128	-17.030	0.717	-12.217	-11.859		130	-17.040	0.717	-5.145	-4.470	
127	-17.020	0.716	-17.522	-17.615		129	-17.030	0.717	-8.481	-8.118		131	-17.040	0.717	-1.429	-0.542	
128	-17.020	0.716	-14.857	-14.728		130	-17.030	0.717	-5.801	-5.232		132	-17.040	0.717	1.243	1.782	
129	-17.020	0.716	-10.865	-10.493		131	-17.030	0.717	-1.807	-1.201		133	-17.040	0.717	5.214	5.883	
130	-17.020	0.716	-7.934	-7.549		132	-17.030	0.717	1.137	1.629		134	-17.040	0.717	8.146	8.357	
131	-17.020	0.716	-3.687	-3.204		133	-17.030	0.717	5.384	5.874		135	-17.040	0.717	12.368	12.681	
132	-17.020	0.716	-0.496	-0.183		134	-17.030	0.717	8.586	8.730		136	-17.040	0.717	15.556	15.263	
133	-17.020	0.716	4.000	4.342		135	-17.030	0.717	13.081	13.216		137	-16.910	0.685	19.371	19.774	
134	-17.000	0.712	8.098	7.510		136	-17.010	0.713	17.144	16.320		138	-16.910	0.685	21.936	22.486	
135	-17.000	0.712	12.731	12.260		137	-17.010	0.713	21.772	20.960		139	-16.900	0.685	27.987	27.079	
136	-17.000	0.712	16.316	15.630		138	-17.010	0.712	24.361	24.200		140	-16.900	0.685	30.781	29.910	
137	-17.000	0.712	21.184	20.620		139	-17.020	0.713	28.007	28.950		141	-16.910	0.686	33.595	34.580	
138	-17.000	0.712	25.010	24.130		140	-17.020	0.713	31.830	32.240		142	-16.910	0.686	36.625	37.549	
139	-17.000	0.712	30.108	<b>30.050</b>		141	-16.890	0.686	36.753	37.070		143	-16.900	0.686	43.163	42.281	
140	-17.000	0.712	34.170	<b>33.480</b>		142	-16.890	0.686	40.034	<b>40.850</b>		144	-16.900	0.686	46.414	<b>45.660</b>	
141	-17.000	0.712	39.494	<b>38.780</b>		143	-16.890	0.686	44.555	<b>45.540</b>		145	-16.900	0.686	50.893	<b>50.370</b>	
142	-17.010	0.712	41.547	<b>42.200</b>		144	-16.890	0.686	48.045	<b>48.880</b>		146	-16.900	0.686	54.351	<b>53.760</b>	
143	-17.010	0.712	47.082	<b>47.230</b>		145	-16.890	0.686	52.764	<b>53.660</b>		147	-16.900	0.686	59.027	<b>58.460</b>	
144	-16.870	0.685	50.083	<b>50.630</b>		146	-16.890	0.686	56.459	<b>57.400</b>		148	-16.900	0.686	62.689	<b>61.960</b>	
145	-16.870	0.685	55.022	<b>55.830</b>		147	-16.890	0.686	61.373	<b>62.340</b>		149	-16.900	0.686	67.558	<b>66.930</b>	
146	-16.870	0.685	58.932	<b>59.540</b>		148	-16.890	0.686	65.268	<b>66.160</b>		150	-16.900	0.686	71.418	<b>70.720</b>	
147	-16.870	0.685	64.063	<b>64.790</b>		149	-16.890	0.686	70.373	<b>71.130</b>		151	-16.900	0.686	76.477	<b>75.870</b>	
148	-16.870	0.685	68.170	<b>68.670</b>		150	-16.890	0.686	74.464	<b>75.230</b>		152	-16.900	0.686	80.531	<b>79.960</b>	
149	-16.870	0.685	73.489	<b>74.000</b>		151	-16.890	0.686	79.757	<b>80.440</b>		153	-16.910	0.687	84.844	<b>85.640</b>	
150	-16.870	0.685	77.790	<b>78.060</b>		152	-16.890	0.686	84.041	<b>84.830</b>		154	-16.910	0.687	89.116	<b>89.970</b>	
151	-16.870	0.685	83.293	<b>83.610</b>		153	-16.890	0.686	89.518	<b>90.510</b>		155	-16.900	0.687	96.961	<b>96.000</b>	
152	-16.870	0.685	87.783	<b>88</b>													

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
164	-16.880	0.687	156.675	<b>156.000</b>		166	-16.870	0.684	162.122	<b>162.490</b>		168	-16.910	0.688	167.966	<b>167.080</b>	
165	-16.880	0.687	163.447	<b>162.700</b>		167	-16.870	0.684	168.728	<b>169.100</b>		169	-16.912	0.688	174.144	<b>173.600</b>	
166	-16.870	0.685	167.622	<b>168.020</b>		168	-16.870	0.684	174.364	<b>174.440</b>		170	-16.914	0.688	179.361	<b>178.850</b>	
167	-16.870	0.685	174.478	<b>175.010</b>		169	-16.872	0.684	180.622	<b>180.970</b>		171	-16.914	0.688	186.200	<b>185.580</b>	
168	-16.870	0.685	180.362	<b>180.460</b>		170	-16.870	0.684	186.923	<b>186.570</b>		172	-16.900	0.686	191.279	<b>191.120</b>	
169	-16.870	0.685	187.373	<b>187.270</b>		171	-16.870	0.684	193.840	<b>193.280</b>		173	-16.900	0.686	198.202	<b>198.010</b>	
170	-16.870	0.685	193.416	<b>192.840</b>		172	-16.870	0.684	199.795	<b>199.100</b>		174	-16.900	0.686	204.174	<b>203.750</b>	
171	-16.870	0.685	200.580	<b>199.910</b>		173	-16.870	0.684	206.862	<b>205.990</b>		175	-16.900	0.686	211.247	<b>210.830</b>	
172	-16.872	0.685	206.273	<b>205.780</b>		174	-16.870	0.684	212.974	<b>212.070</b>		176	-16.900	0.686	217.375	<b>216.710</b>	
173	-16.872	0.685	213.584	<b>213.080</b>		175	-16.874	0.684	219.157	<b>219.110</b>		177	-16.900	0.686	224.598	<b>223.980</b>	
174	-16.872	0.685	219.936	<b>219.190</b>		176	-16.874	0.684	225.417	<b>225.290</b>		178	-16.902	0.686	230.355	<b>230.110</b>	
175	-16.876	0.685	226.367	<b>226.500</b>		177	-16.876	0.684	232.254	<b>232.600</b>		179	-16.900	0.686	238.248	<b>237.740</b>	
176	-16.880	0.685	231.835	<b>232.710</b>		178	-16.872	0.684	239.707	<b>239.030</b>		180	-16.900	0.686	244.679	<b>243.920</b>	
177	-16.880	0.685	239.429	<b>240.300</b>		179	-16.872	0.684	247.209	<b>246.550</b>		181	-16.900	0.686	252.191	<b>251.340</b>	
178	-16.880	0.685	246.074	<b>246.780</b>		180	-16.878	0.684	252.191	<b>253.110</b>		182	-16.906	0.686	257.174	<b>257.750</b>	
179	-16.880	0.685	253.811	<b>254.420</b>		181	-16.875	0.684	260.619	<b>260.610</b>		183	-16.906	0.686	264.821	<b>265.500</b>	
180	-16.876	0.685	261.650	<b>260.880</b>		182	-16.876	0.684	267.057	<b>267.330</b>		184	-16.906	0.686	271.540	<b>272.330</b>	
181	-16.880	0.685	268.477	<b>268.650</b>		183	-16.876	0.684	274.833	<b>275.070</b>		185	-16.902	0.686	282.102	<b>281.720</b>	
182	-16.880	0.685	275.412	<b>275.330</b>		184	-16.876	0.684	281.676	<b>282.260</b>		186	-16.910	0.686	288.500	<b>289.340</b>	
183	-16.880	0.685	283.424	<b>283.400</b>		185	-16.876	0.684	291.293	<b>291.570</b>		187	-16.910	0.686	298.102	<b>298.970</b>	
184	-16.880	0.685	290.501	<b>290.530</b>		186	-16.880	0.684	298.898	<b>299.570</b>		188	-16.906	0.686	307.863	<b>306.890</b>	
185	-16.880	0.685	300.356	<b>300.240</b>		187	-16.880	0.684	308.628	<b>309.210</b>		189	-16.910	0.686	316.494	<b>315.960</b>	
186	-16.884	0.685	308.200	<b>308.190</b>		188	-16.876	0.684	318.509	<b>317.510</b>		190	-16.916	0.686	323.646	<b>323.720</b>	
187	-16.882	0.685	318.705	<b>318.180</b>		189	-16.880	0.684	327.269	<b>326.680</b>		191	-16.920	0.686	332.374	<b>332.740</b>	
188	-16.890	0.685	325.578	<b>326.470</b>		190	-16.886	0.684	334.548	<b>334.750</b>		192	-16.920	0.686	341.280	<b>340.570</b>	
189	-16.874	0.684	336.906	<b>335.990</b>		191	-16.890	0.684	343.402	<b>343.790</b>		193	-16.926	0.686	349.556	<b>349.800</b>	
190	-16.880	0.684	344.385	<b>344.150</b>		192	-16.890	0.684	352.425	<b>352.000</b>		194	-16.914	0.685	358.715	<b>357.840</b>	
191	-16.880	0.684	354.532	<b>353.630</b>		193	-16.894	0.684	361.379	<b>361.280</b>		195	-16.920	0.685	367.047	<b>367.360</b>	
85	99	-17.180	0.845	22.337	<b>23.040</b>	86	100	-17.200	0.845	25.736	<b>26.610</b>	87	102	-17.210	0.845	29.969	<b>29.830</b>
100	-17.180	0.845	18.915	<b>18.970</b>		101	-17.200	0.845	23.494	<b>24.220</b>		103	-17.210	0.845	27.886	<b>27.460</b>	
101	-17.180	0.845	17.103	<b>16.660</b>		102	-17.200	0.845	20.241	<b>20.210</b>		104	-17.210	0.845	24.801	<b>23.860</b>	
102	-17.190	0.845	12.403	<b>13.100</b>		103	-17.200	0.845	18.578	<b>18.330</b>		105	-17.220	0.845	21.367	<b>21.990</b>	
103	-17.190	0.845	11.156	<b>11.270</b>		104	-17.210	0.845	14.006	<b>14.800</b>		106	-17.220	0.845	18.844	<b>18.820</b>	
104	-17.190	0.845	8.893	<b>8.170</b>		105	-17.210	0.845	12.897	<b>13.410</b>		107	-17.220	0.845	17.875	<b>17.380</b>	
105	-17.200	0.845	6.306	<b>6.770</b>		106	-17.210	0.845	10.784	<b>10.250</b>		108	-17.230	0.845	13.961	<b>14.560</b>	
106	-17.200	0.845	4.598	<b>3.864</b>		107	-17.220	0.845	8.296	9.043		109	-17.230	0.845	13.524	<b>13.120</b>	
107	-17.210	0.845	2.528	<b>2.926</b>		108	-17.230	0.845	4.787	5.725		110	-17.240	0.845	10.126	10.254	
108	-17.110	0.751	-0.197	-0.067		109	-17.120	0.753	5.922	5.050		111	-17.240	0.845	10.208	9.578	
109	-17.110	0.751	-1.459	-0.716		110	-17.130	0.753	1.346	1.975		112	-17.140	0.759	7.129	6.771	
110	-17.110	0.751	-3.789	-3.470		111	-17.120	0.753	2.152	1.510		113	-17.140	0.759	6.143	6.134	
111	-17.110	0.751	-4.654	-3.913		112	-17.130	0.753	-2.036	-1.230		114	-17.140	0.759	4.118	3.589	
112	-17.110	0.751	-6.580	-6.355		113	-17.120	0.753	-0.816	-1.560		115	-17.140	0.759	3.529	3.102	
113	-17.110	0.751	-7.056	-6.709		114	-17.130	0.753	-4.624	-4.000		116	-17.140	0.754	0.304	0.876	
114	-17.110	0.751	-8.589	-8.823		115	-17.130	0.753	-5.008	-4.107		117	-17.150	0.759	-0.338	0.607	
115	-17.110	0.751	-8.684	-8.988		116	-17.130	0.753	-6.436	-6.275		118	-17.090	0.728	-0.328	-1.310	
116	-17.110	0.751	-9.832	-10.789		117	-17.130	0.753	-6.443	-6.184		119	-17.090	0.728	-0.774	-1.247	
117	-17.050	0.718	-9.954	-10.595		118	-17.130	0.753	-7.490	-7.970		120	-17.090	0.728	-2.262	-2.849	
118	-17.050	0.718	-11.401	-12.163		119	-17.130	0.753	-7.129	-7.710		121	-17.090	0.728	-2.372	-2.665	
119	-17.050	0.718	-11.455	-11.875		120	-17.140	0.753	-9.862	-9.133		122	-17.090	0.728	-3.520	-3.782	
120	-17.050	0.718	-12.569	-12.985		121	-17.020	0.700	-8.035	-8.635		123	-17.090	0.728	-3.301	-3.344	
121	-17.050	0.718	-12.305	-12.439		122	-17.020	0.700	-9.055	-9.655		124	-17.090	0.728	-4.115	-4.140	
122	-17.050	0.718	-13.094	-13.227		123	-17.020	0.700	-9.143	-8.941		125	-17.090	0.728	-3.575	-3.516	
123	-17.050	0.718	-12.517	-12.470		124	-17.020	0.700	-10.283	-9.605		126	-17.090	0.728	-4.063	-3.554	
124	-17.050	0.718	-12.990	-12.884		125	-17.010	0.700	-7.971	-8.755		127	-17.090	0.728	-1.475	-0.958	
125	-17.050	0.718	-12.107	-11.972		126	-17.020	0.706	-7.660	-8.659		128	-17.090	0.728	0.081	0.318	
126	-17.050	0.718	-12.268	-11.647		127	-17.020	0.706	-5.283	-5.696		129	-17.090	0.728	2.956	2.971	
127	-17.050	0.718	-9.341	-8.628		128	-17.020	0.706	-3.956	-4.320		130	-17.010	0.700	4.625	4.315	
128	-17.050	0.718	-7.465	-6.580		129	-17.020	0.706	-1.317	-1.169		131	-17.010	0.700	7.109	7.059	
129	-17.050	0.718	-4.267	-3.379		130	-17.020	0.706	0.278	0.253		132	-17.010	0.700	8.555	8.617	
130	-17.050	0.718	-2.114	-1.257		131	-17.020	0.706	3.173	3.659		133	-17.010	0.700	11.287	11.482	
131	-17.050	0.718	1.349	2.257		132	-17.000	0.700	5								

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$						
145	-16.910	0.685	49.508	<b>49.150</b>		146	-16.920	0.684	50.482	<b>49.510</b>		148	-16.959	0.688	55.488	<b>56.260</b>	
146	-16.910	0.685	52.694	<b>52.410</b>		147	-16.920	0.684	54.612	<b>53.890</b>		149	-16.959	0.688	59.682	<b>60.520</b>	
147	-16.910	0.685	57.095	<b>56.830</b>		148	-16.920	0.684	57.737	<b>57.060</b>		150	-16.959	0.688	62.880	<b>63.870</b>	
148	-16.910	0.685	60.485	<b>60.330</b>		149	-16.920	0.684	62.064	<b>61.670</b>		151	-16.956	0.688	67.985	<b>68.380</b>	
149	-16.910	0.685	65.081	<b>64.960</b>		150	-16.920	0.684	65.390	<b>65.000</b>		152	-16.950	0.688	72.823	<b>72.050</b>	
150	-16.919	0.686	67.839	<b>68.660</b>		151	-16.920	0.684	69.909	<b>69.880</b>		153	-16.950	0.688	77.418	<b>77.130</b>	
151	-16.919	0.686	72.652	<b>73.520</b>		152	-16.920	0.684	73.433	<b>73.550</b>		154	-16.960	0.690	81.303	<b>81.180</b>	
152	-16.910	0.686	78.598	<b>77.620</b>		153	-16.936	0.688	79.701	<b>78.950</b>		155	-16.960	0.690	86.150	<b>86.540</b>	
153	-16.910	0.686	83.609	<b>82.910</b>		154	-16.934	0.688	84.026	<b>83.030</b>		156	-16.956	0.690	90.989	<b>90.730</b>	
154	-16.910	0.686	87.624	<b>87.320</b>		155	-16.938	0.688	88.086	<b>88.640</b>		157	-16.956	0.690	96.027	<b>95.920</b>	
155	-16.919	0.688	93.590	<b>92.990</b>		156	-16.938	0.688	92.121	<b>92.920</b>		158	-16.954	0.690	100.581	<b>100.180</b>	
156	-16.920	0.688	97.620	<b>97.600</b>		157	-16.930	0.688	99.270	<b>98.460</b>		159	-16.952	0.690	106.298	<b>105.490</b>	
157	-16.920	0.688	103.060	<b>103.120</b>		158	-16.930	0.688	103.504	<b>102.670</b>		160	-16.954	0.690	110.061	<b>109.810</b>	
158	-16.920	0.688	107.517	<b>107.660</b>		159	-16.930	0.688	108.897	<b>108.360</b>		161	-16.952	0.690	115.964	<b>115.180</b>	
159	-16.920	0.688	113.137	<b>113.360</b>		160	-16.930	0.688	113.316	<b>112.630</b>		162	-16.958	0.690	118.913	<b>119.660</b>	
160	-16.920	0.688	117.777	<b>117.800</b>		161	-16.930	0.688	118.889	<b>118.320</b>		163	-16.954	0.690	125.494	<b>125.360</b>	
161	-16.916	0.688	124.557	<b>123.580</b>		162	-16.930	0.688	123.490	<b>122.790</b>		164	-16.960	0.691	130.330	<b>130.180</b>	
162	-16.920	0.688	128.393	<b>128.410</b>		163	-16.930	0.688	129.236	<b>128.830</b>		165	-16.960	0.691	136.122	<b>136.220</b>	
163	-16.920	0.688	134.361	<b>134.450</b>		164	-16.930	0.688	134.018	<b>133.680</b>		166	-16.960	0.691	140.958	<b>140.990</b>	
164	-16.920	0.688	139.360	<b>139.690</b>		165	-16.930	0.688	139.935	<b>140.020</b>		167	-16.960	0.691	146.923	<b>146.750</b>	
165	-16.920	0.688	145.497	<b>145.860</b>		166	-16.930	0.688	144.893	<b>144.740</b>		168	-16.960	0.691	151.936	<b>151.510</b>	
166	-16.920	0.688	150.670	<b>150.810</b>		167	-16.930	0.688	150.978	<b>150.780</b>		169	-16.960	0.691	158.069	<b>157.350</b>	
167	-16.920	0.688	156.973	<b>156.900</b>		168	-16.930	0.688	156.108	<b>155.570</b>		170	-16.960	0.691	163.256	<b>162.350</b>	
168	-16.920	0.688	162.315	<b>161.970</b>		169	-16.930	0.688	162.359	<b>161.730</b>		171	-16.964	0.691	168.523	<b>168.480</b>	
169	-16.920	0.688	168.782	<b>168.150</b>		170	-16.930	0.688	167.658	<b>166.750</b>		172	-16.968	0.691	172.841	<b>173.600</b>	
170	-16.920	0.688	174.293	<b>173.500</b>		171	-16.930	0.688	174.071	<b>173.210</b>		173	-16.965	0.691	180.075	<b>179.950</b>	
171	-16.922	0.688	180.407	<b>179.890</b>		172	-16.934	0.688	178.505	<b>178.490</b>		174	-16.966	0.691	185.333	<b>185.370</b>	
172	-16.926	0.688	185.053	<b>185.430</b>		173	-16.934	0.688	185.074	<b>184.950</b>		175	-16.966	0.691	191.950	<b>191.800</b>	
173	-16.926	0.688	191.831	<b>192.010</b>		174	-16.938	0.688	189.659	<b>190.370</b>		176	-16.968	0.691	197.107	<b>197.390</b>	
174	-16.924	0.688	198.180	<b>197.740</b>		175	-16.932	0.688	197.946	<b>197.110</b>		177	-16.966	0.691	204.406	<b>204.010</b>	
175	-16.930	0.688	203.554	<b>204.470</b>		176	-16.936	0.688	202.686	<b>202.670</b>		178	-16.964	0.691	210.780	<b>209.880</b>	
176	-16.926	0.688	210.585	<b>210.350</b>		177	-16.932	0.688	210.614	<b>209.640</b>		179	-16.964	0.691	217.710	<b>216.810</b>	
177	-16.926	0.688	217.668	<b>217.330</b>		178	-16.936	0.688	215.505	<b>215.510</b>		180	-16.970	0.691	222.114	<b>223.040</b>	
178	-16.928	0.688	223.289	<b>223.440</b>		179	-16.934	0.688	223.062	<b>222.780</b>		181	-16.970	0.691	229.189	<b>230.180</b>	
179	-16.926	0.688	231.048	<b>230.830</b>		180	-16.934	0.688	229.162	<b>228.980</b>		182	-16.970	0.691	235.345	<b>236.300</b>	
180	-16.924	0.688	237.878	<b>237.180</b>		181	-16.936	0.688	235.804	<b>236.330</b>		183	-16.970	0.691	242.570	<b>243.450</b>	
181	-16.924	0.688	245.259	<b>244.380</b>		182	-16.938	0.688	241.519	<b>242.440</b>		184	-16.965	0.691	250.233	<b>249.990</b>	
182	-16.930	0.688	250.110	<b>250.870</b>		183	-16.932	0.688	250.452	<b>249.890</b>		185	-16.964	0.691	259.570	<b>258.720</b>	
183	-16.930	0.688	257.629	<b>258.320</b>		184	-16.934	0.688	256.316	<b>256.430</b>		186	-16.970	0.691	266.078	<b>265.980</b>	
184	-16.930	0.688	264.224	<b>265.160</b>		185	-16.936	0.688	264.932	<b>265.470</b>		187	-16.970	0.691	275.265	<b>274.930</b>	
185	-16.930	0.688	273.582	<b>274.200</b>		186	-16.934	0.688	273.708	<b>272.750</b>		188	-16.972	0.691	282.987	<b>282.370</b>	
186	-16.932	0.688	281.469	<b>281.820</b>		187	-16.940	0.688	281.352	<b>281.990</b>		189	-16.978	0.691	290.641	<b>290.510</b>	
187	-16.928	0.688	292.034	<b>291.130</b>		188	-16.940	0.688	289.709	<b>289.490</b>		190	-16.920	0.685	298.178	<b>297.740</b>	
188	-16.932	0.688	299.500	<b>299.000</b>		189	-16.942	0.688	298.558	<b>298.060</b>		191	-16.924	0.685	306.273	<b>305.770</b>	
189	-16.940	0.688	306.905	<b>307.620</b>		190	-16.940	0.687	304.709	<b>305.390</b>		192	-16.926	0.685	314.010	<b>313.190</b>	
190	-16.940	0.688	315.576	<b>315.290</b>		191	-16.940	0.687	314.180	<b>313.950</b>		193	-16.920	0.684	322.065	<b>321.760</b>	
191	-16.944	0.688	324.180	<b>323.900</b>		192	-16.942	0.687	322.184	<b>321.200</b>		194	-16.920	0.684	330.440	<b>329.510</b>	
192	-16.946	0.688	332.415	<b>331.710</b>		193	-16.946	0.687	330.656	<b>330.130</b>		195	-16.926	0.684	338.143	<b>338.070</b>	
193	-16.950	0.688	341.121	<b>340.610</b>		194	-16.940	0.686	337.945	<b>337.860</b>		196	-16.918	0.683	345.813	<b>345.760</b>	
194	-16.930	0.686	349.335	<b>348.520</b>		195	-16.940	0.686	347.602	<b>347.040</b>		197	-16.920	0.683	354.709	<b>354.670</b>	
195	-16.934	0.686	358.067	<b>357.910</b>		196	-16.946	0.686	354.664	<b>354.750</b>		198	-16.920	0.683	363.273	<b>362.450</b>	
196	-16.938	0.686	365.884	<b>366.100</b>		197	-16.948	0.686	363.862	<b>364.100</b>		199	-16.928	0.683	370.559	<b>371.400</b>	
197	-16.942	0.686	374.712	<b>375.190</b>		198	-16.940	0.685	371.743	<b>371.820</b>		200	-16.920	0.682	378.258	<b>379.090</b>	
						199	-16.940	0.685	381.576	<b>380.720</b>		201	-16.930	0.683	388.331	<b>387.900</b>	
						200	-16.948	0.685	388.226	<b>388.770</b>		202	-16.920	0.682	396.639	<b>395.670</b>	
88	104	-17.230	0.845	31.079	<b>31.520</b>	89	106	-17.230	0.834	35.997	<b>35.600</b>	90	108	-17.240	0.830	38.516	<b>37.920</b>
105	-17.230	0.845	29.145	<b>29.620</b>		107	-17.230	0.834	34.063	<b>33.720</b>		109	-17.240	0.830	36.666	<b>36.370</b>	
106	-17.230	0.845	26.220	<b>26.020</b>		108	-17.230	0.834	31.140	<b>30.470</b>		110	-17.240	0.830	33.834	<b>33.160</b>	
107	-17.230</td																

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)						
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
123	-17.100	0.728	0.969	0.832		125	-17.150	0.749	6.607	6.433		127	-17.050	0.700	12.748	12.206
124	-17.100	0.728	-0.128	-0.199		126	-17.150	0.749	6.016	6.031		128	-17.050	0.700	12.864	12.367
125	-17.100	0.728	0.126	0.346		127	-17.150	0.749	8.497	8.150		129	-17.050	0.700	14.278	14.463
126	-17.100	0.728	-0.643	0.093		128	-17.040	0.701	8.689	8.702		130	-17.050	0.700	14.667	14.690
127	-17.100	0.728	1.657	2.532		129	-17.040	0.701	10.394	10.851		131	-17.050	0.700	16.343	16.940
128	-17.100	0.728	2.929	3.291		130	-17.040	0.701	11.068	11.570		132	-17.050	0.700	16.998	17.203
129	-17.100	0.728	5.517	5.890		131	-17.040	0.701	13.033	13.744		133	-17.050	0.700	18.930	19.385
130	-17.100	0.728	7.084	6.646		132	-17.040	0.701	13.973	14.531		134	-17.050	0.700	19.847	19.996
131	-17.020	0.699	9.456	9.394		133	-17.040	0.701	16.192	16.622		135	-17.050	0.700	22.030	22.310
132	-17.020	0.699	10.617	10.272		134	-17.040	0.701	17.391	17.825		136	-17.050	0.700	23.202	23.198
133	-17.020	0.699	13.060	12.964		135	-17.040	0.701	19.860	20.234		137	-17.050	0.700	25.631	25.805
134	-17.020	0.699	14.476	14.320		136	-17.040	0.701	21.313	21.637		138	-17.050	0.700	27.054	26.771
135	-17.020	0.699	17.163	17.233		137	-17.040	0.701	24.027	24.309		139	-17.050	0.700	29.724	29.586
136	-17.020	0.699	18.830	18.826		138	-17.040	0.701	25.729	25.850		140	-17.050	0.700	31.393	30.863
137	-17.020	0.699	21.758	21.993		139	-17.040	0.701	28.682	28.895		141	-17.050	0.700	34.298	33.816
138	-17.020	0.699	23.669	23.668		140	-17.040	0.701	30.629	30.690		142	-17.050	0.700	36.208	35.447
139	-17.020	0.699	26.832	27.177		141	-17.040	0.701	33.816	33.838		143	-17.050	0.700	39.346	38.732
140	-17.020	0.699	28.983	28.940		142	-17.040	0.701	36.002	35.763		144	-17.050	0.700	41.492	40.613
141	-17.020	0.699	32.376	32.562		143	-17.040	0.701	39.419	39.154		145	-17.050	0.700	44.856	44.018
142	-17.020	0.699	34.763	34.516		144	-17.040	0.701	41.840	41.308		146	-17.050	0.700	47.234	46.255
143	-17.020	0.699	38.382	38.216		145	-17.040	0.701	45.483	44.841		147	-17.050	0.700	50.820	49.955
144	-17.020	0.699	40.999	40.497		146	-17.040	0.701	48.134	47.357		148	-17.050	0.700	53.425	52.525
145	-17.020	0.699	44.839	44.334		147	-17.040	0.701	51.997	51.221		149	-17.060	0.702	56.975	56.500
146	-17.020	0.699	47.683	46.931		148	-17.050	0.703	54.658	54.020		150	-17.062	0.702	59.378	58.810
147	-16.970	0.687	50.651	51.130	<b>149</b>	-17.052	0.703	58.317	<b>57.750</b>		<b>151</b>	-17.062	0.702	63.450	<b>62.910</b>	
<b>148</b>	-16.970	0.687	53.375	<b>53.830</b>	<b>150</b>	-17.052	0.703	61.470	<b>60.740</b>		<b>152</b>	-17.068	0.702	65.099	<b>65.850</b>	
<b>149</b>	-16.970	0.687	57.299	<b>58.080</b>	<b>151</b>	-17.052	0.703	65.817	<b>64.860</b>		<b>153</b>	-17.060	0.702	71.321	<b>70.510</b>	
<b>150</b>	-16.965	0.687	61.422	<b>61.060</b>	<b>152</b>	-17.053	0.703	68.948	<b>68.170</b>		<b>154</b>	-17.060	0.702	74.641	<b>73.880</b>	
<b>151</b>	-16.962	0.687	66.267	<b>65.550</b>	<b>153</b>	-17.058	0.703	72.294	<b>72.840</b>		<b>155</b>	-17.064	0.703	79.425	<b>78.880</b>	
<b>152</b>	-16.962	0.687	69.412	<b>68.860</b>	<b>154</b>	-17.056	0.703	76.360	<b>76.580</b>		<b>156</b>	-17.066	0.703	82.495	<b>82.430</b>	
<b>153</b>	-16.960	0.687	74.221	<b>73.890</b>	<b>155</b>	-17.050	0.703	82.584	<b>81.600</b>		<b>157</b>	-17.062	0.703	88.209	<b>87.370</b>	
<b>154</b>	-16.970	0.689	77.743	<b>77.630</b>	<b>156</b>	-17.050	0.703	86.382	<b>85.510</b>		<b>158</b>	-17.064	0.703	91.485	<b>90.890</b>	
<b>155</b>	-16.966	0.689	83.295	<b>82.960</b>	<b>157</b>	-17.050	0.703	91.349	<b>90.350</b>		<b>159</b>	-17.068	0.703	95.417	<b>95.940</b>	
<b>156</b>	-16.966	0.689	86.904	<b>86.870</b>	<b>158</b>	-17.052	0.703	94.860	<b>94.260</b>		<b>160</b>	-17.070	0.703	98.889	<b>99.670</b>	
<b>157</b>	-16.964	0.689	92.168	<b>92.070</b>	<b>159</b>	-17.052	0.703	100.024	<b>99.350</b>		<b>161</b>	-17.070	0.703	104.007	<b>104.640</b>	
<b>158</b>	-16.960	0.689	96.959	96.000	<b>160</b>	-17.058	0.703	102.736	<b>103.360</b>		<b>162</b>	-17.070	0.703	108.178	<b>108.440</b>	
<b>159</b>	-16.960	0.689	101.925	<b>101.360</b>	<b>161</b>	-17.060	0.703	107.587	<b>108.350</b>		<b>163</b>	-17.070	0.703	113.490	<b>113.960</b>	
<b>160</b>	-16.960	0.689	105.926	<b>105.280</b>	<b>162</b>	-17.060	0.703	111.985	<b>112.550</b>		<b>164</b>	-17.070	0.703	117.858	<b>118.170</b>	
<b>161</b>	-16.970	0.690	110.137	<b>110.720</b>	<b>163</b>	-17.060	0.703	117.526	<b>117.950</b>		<b>165</b>	-17.070	0.703	123.358	<b>123.700</b>	
<b>162</b>	-16.970	0.690	114.352	<b>114.860</b>	<b>164</b>	-17.060	0.703	122.118	<b>122.470</b>		<b>166</b>	-17.070	0.703	127.921	<b>128.310</b>	
<b>163</b>	-16.970	0.690	119.709	<b>120.590</b>	<b>165</b>	-17.060	0.703	127.846	<b>128.150</b>		<b>167</b>	-17.070	0.703	133.608	<b>133.870</b>	
<b>164</b>	-16.970	0.690	124.108	<b>125.080</b>	<b>166</b>	-17.060	0.703	132.631	<b>132.850</b>		<b>168</b>	-17.070	0.703	138.360	<b>137.950</b>	
<b>165</b>	-16.970	0.691	131.348	<b>131.120</b>	<b>167</b>	-17.060	0.703	138.543	<b>138.270</b>		<b>169</b>	-17.070	0.703	144.230	<b>143.470</b>	
<b>166</b>	-16.970	0.691	135.968	<b>135.710</b>	<b>168</b>	-17.060	0.703	143.516	<b>142.800</b>		<b>170</b>	-17.072	0.703	148.648	<b>147.790</b>	
<b>167</b>	-16.970	0.691	141.714	<b>141.460</b>	<b>169</b>	-17.064	0.703	148.576	<b>148.180</b>		<b>171</b>	-17.076	0.703	153.652	<b>153.580</b>	
<b>168</b>	-16.970	0.691	146.512	<b>145.960</b>	<b>170</b>	-16.970	0.690	153.789	<b>152.850</b>		<b>172</b>	-17.068	0.702	158.951	<b>158.270</b>	
<b>169</b>	-16.970	0.691	152.429	<b>151.740</b>	<b>171</b>	-16.974	0.690	158.585	<b>158.620</b>		<b>173</b>	-17.070	0.702	164.612	<b>164.260</b>	
<b>170</b>	-16.970	0.691	157.403	<b>156.430</b>	<b>172</b>	-16.976	0.690	162.962	<b>163.600</b>		<b>174</b>	-17.070	0.702	169.875	<b>169.140</b>	
<b>171</b>	-16.970	0.691	163.487	<b>162.570</b>	<b>173</b>	-16.972	0.690	170.007	<b>169.650</b>		<b>175</b>	-17.074	0.702	175.172	<b>175.200</b>	
<b>172</b>	-16.978	0.691	166.553	<b>167.450</b>	<b>174</b>	-16.970	0.690	175.604	<b>174.850</b>		<b>176</b>	-17.074	0.702	180.607	<b>180.120</b>	
<b>173</b>	-16.972	0.691	174.361	<b>173.790</b>	<b>175</b>	-16.970	0.690	181.770	<b>180.860</b>		<b>177</b>	-17.084	0.703	186.579	<b>186.460</b>	
<b>174</b>	-16.972	0.691	179.674	<b>178.890</b>	<b>176</b>	-16.970	0.690	187.010	<b>186.130</b>		<b>178</b>	-17.086	0.703	191.683	<b>191.710</b>	
<b>175</b>	-16.976	0.691	185.031	<b>185.300</b>	<b>177</b>	-16.970	0.690	193.337	<b>192.460</b>		<b>179</b>	-17.084	0.703	198.942	<b>198.470</b>	
<b>176</b>	-16.976	0.691	190.507	<b>190.550</b>	<b>178</b>	-16.976	0.690	197.140	<b>198.030</b>		<b>180</b>	-17.086	0.703	204.213	<b>204.180</b>	
<b>177</b>	-16.974	0.691	197.601	<b>197.220</b>	<b>179</b>	-16.972	0.690	204.690	<b>204.720</b>		<b>181</b>	-17.088	0.703	210.556	<b>210.970</b>	
<b>178</b>	-16.974	0.691	203.242	<b>202.740</b>	<b>180</b>	-16.970	0.690	210.793	<b>210.800</b>		<b>182</b>	-16.934	0.685	216.918	<b>216.480</b>	
<b>179</b>	-16.976	0.691	209.431	<b>209.760</b>	<b>181</b>	-16.972	0.690	216.892	<b>217.550</b>		<b>183</b>	-16.932	0.685	223.885	<b>223.360</b>	
<b>180</b>	-16.976	0.691	215.231	<b>215.790</b>	<b>182</b>	-16.916	0.684	223.756	<b>223.380</b>		<b>184</b>	-16.936	0.685	228.303	<b>229.300</b>	
<b>181</b>	-16.974	0.691	222.643	<b>222.850</b>	<b>183</b>	-16.914	0.684									

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$						
197	-16.940	0.684	344.138	<b>344.280</b>		199	-16.920	0.681	351.521	<b>352.050</b>		201	-16.942	0.682	358.156	<b>357.370</b>	
198	-16.940	0.684	352.552	<b>351.700</b>		200	-16.918	0.681	360.330	<b>359.410</b>		202	-16.948	0.682	364.601	<b>364.210</b>	
199	-16.940	0.684	361.973	<b>360.980</b>		201	-16.922	0.681	368.400	<b>367.770</b>		203	-16.938	0.681	373.503	<b>372.750</b>	
200	-16.934	0.683	369.025	<b>368.030</b>		202	-16.926	0.681	375.580	<b>374.820</b>		204	-16.944	0.681	380.009	<b>380.060</b>	
201	-16.938	0.683	377.360	<b>376.770</b>		203	-16.918	0.680	383.978	<b>383.200</b>		205	-16.948	0.681	388.078	<b>388.550</b>	
202	-16.942	0.683	384.802	<b>384.240</b>		204	-16.920	0.680	391.806	<b>391.020</b>		206	-16.940	0.680	395.470	<b>395.900</b>	
203	-16.934	0.682	393.374	<b>392.870</b>		205	-16.924	0.680	400.029	<b>399.510</b>		207	-16.940	0.680	404.783	<b>404.660</b>	
204	-16.938	0.682	400.876	<b>400.560</b>		206	-16.928	0.680	407.370	<b>407.260</b>		208	-16.942	0.680	412.633	<b>412.150</b>	
209	-16.948	0.680					-16.948	0.680				209	-16.948	0.680	420.256	<b>421.010</b>	
91	109	-17.250	0.830	46.090	<b>45.750</b>	92	111	-17.260	0.827	48.686	<b>48.550</b>	93	113	-17.250	0.800	52.724	<b>53.060</b>
110	-17.250	0.830	42.874	<b>42.420</b>		112	-17.260	0.827	45.576	<b>45.190</b>		114	-17.250	0.800	49.350	<b>49.740</b>	
111	-17.250	0.830	41.158	<b>40.750</b>		113	-17.260	0.827	43.946	<b>43.540</b>		115	-17.250	0.800	47.421	<b>47.920</b>	
112	-17.250	0.830	38.469	<b>37.700</b>		114	-17.270	0.827	39.290	<b>40.240</b>		116	-17.250	0.800	44.518	<b>44.890</b>	
113	-17.260	0.830	35.224	<b>36.010</b>		115	-17.270	0.827	38.149	<b>38.780</b>		117	-17.250	0.800	43.046	<b>43.390</b>	
114	-17.260	0.830	33.040	<b>33.030</b>		116	-17.270	0.827	36.047	<b>35.760</b>		118	-17.250	0.800	40.603	<b>40.450</b>	
115	-17.260	0.830	32.325	<b>31.620</b>		117	-17.270	0.827	35.395	<b>34.640</b>		119	-17.250	0.800	39.578	<b>39.090</b>	
116	-17.270	0.830	28.575	<b>28.970</b>		118	-17.270	0.820	31.874	<b>31.650</b>		120	-17.260	0.801	35.738	<b>36.510</b>	
117	-17.270	0.830	28.339	<b>27.810</b>		119	-17.270	0.820	31.560	<b>30.610</b>		121	-17.260	0.800	34.857	<b>35.480</b>	
118	-17.290	0.838	25.353	<b>25.190</b>		120	-17.280	0.820	28.166	<b>27.990</b>		122	-17.260	0.800	33.296	<b>33.190</b>	
119	-17.290	0.834	24.462	<b>24.270</b>		121	-17.280	0.820	28.301	<b>27.310</b>		123	-17.260	0.800	33.125	<b>32.350</b>	
120	-17.300	0.834	21.703	22.052		122	-17.310	0.830	24.635	<b>25.060</b>		124	-17.270	0.800	29.825	<b>30.560</b>	
121	-17.170	0.751	21.294	21.597		123	-17.310	0.830	25.414	24.889		125	-17.270	0.800	30.063	<b>30.350</b>	
122	-17.170	0.751	19.427	19.654		124	-17.300	0.820	23.374	23.066		126	-17.270	0.800	29.346	29.437	
123	-17.170	0.751	18.928	19.460		125	-17.100	0.705	22.313	22.971		127	-17.280	0.800	29.496	30.475	
124	-17.170	0.751	17.430	17.805		126	-17.090	0.704	21.766	21.895		128	-17.280	0.800	30.875	29.910	
125	-17.170	0.751	17.288	17.824		127	-17.090	0.704	22.438	23.296		129	-17.290	0.800	31.376	31.275	
126	-17.170	0.751	16.152	17.055		128	-17.090	0.704	22.092	23.013		130	-17.300	0.800	30.899	30.659	
127	-17.170	0.751	18.073	18.650		129	-17.090	0.707	24.399	24.520		131	-17.310	0.800	31.733	32.032	
128	-17.170	0.751	18.993	18.583		130	-17.090	0.707	24.402	24.273		132	-17.090	0.700	30.712	31.618	
129	-17.170	0.751	21.235	20.278		131	-17.090	0.707	25.691	26.045		133	-17.090	0.700	31.845	32.817	
130	-17.060	0.699	19.941	20.375		132	-17.090	0.707	25.973	25.743		134	-17.090	0.700	31.978	32.579	
131	-17.060	0.699	21.326	22.064		133	-17.090	0.707	27.530	27.372		135	-17.090	0.700	33.370	33.825	
132	-17.060	0.699	21.695	22.338		134	-17.090	0.704	26.368	27.329		136	-17.090	0.700	33.767	33.801	
133	-17.060	0.699	23.337	23.862		135	-17.090	0.704	28.112	29.045		137	-17.090	0.700	35.412	35.237	
134	-17.060	0.699	23.969	24.357		136	-17.090	0.704	28.856	29.220		138	-17.090	0.700	36.066	35.624	
135	-17.060	0.699	25.865	26.034		137	-17.090	0.704	30.854	31.211		139	-17.090	0.700	37.960	37.359	
136	-17.060	0.699	26.753	26.830		138	-17.080	0.700	31.468	31.615		140	-17.090	0.700	38.867	37.949	
137	-17.060	0.699	28.896	28.924		139	-17.080	0.700	33.618	33.806		141	-17.100	0.701	39.384	39.955	
138	-17.060	0.699	30.038	29.897		140	-17.080	0.700	34.776	34.609		142	-17.100	0.701	40.556	41.043	
139	-17.060	0.699	32.423	32.174		141	-17.080	0.700	37.167	36.919		143	-17.100	0.701	42.949	43.378	
140	-17.060	0.699	33.812	33.424		142	-17.080	0.700	38.571	38.145		144	-17.100	0.701	44.366	44.872	
141	-17.060	0.699	36.435	35.947		143	-17.080	0.700	41.198	40.919		145	-17.100	0.701	46.994	47.455	
142	-17.060	0.699	38.066	37.489		144	-17.080	0.700	42.843	42.445		146	-17.090	0.700	50.178	49.311	
143	-17.060	0.699	40.922	40.339		145	-17.080	0.700	45.701	45.390		147	-17.090	0.700	53.016	52.316	
144	-17.060	0.699	42.791	42.289		146	-17.080	0.700	47.582	47.308		148	-17.090	0.700	54.886	54.315	
145	-17.060	0.699	45.875	45.334		147	-17.080	0.700	50.667	50.573		149	-17.090	0.700	57.949	57.417	
146	-17.060	0.699	47.977	47.528		148	-17.080	0.700	52.779	52.715		150	-17.090	0.700	60.049	59.806	
147	-17.060	0.699	51.285	50.894		149	-17.080	0.700	56.087	56.197		151	-17.090	0.700	63.333	63.240	
148	-17.060	0.699	53.616	53.337		150	-17.080	0.700	58.427	58.620		152	-17.090	0.701	66.704	65.850	
149	-17.060	0.699	57.143	57.010		151	-17.080	0.701	63.006	62.480		153	-17.090	0.701	70.236	<b>69.380</b>	
150	-17.070	0.702	60.468	59.740		152	-17.082	0.701	65.113	<b>64.530</b>		154	-17.090	0.701	72.814	<b>72.310</b>	
151	-17.072	0.702	63.814	<b>63.050</b>		153	-17.080	0.701	69.374	<b>68.820</b>		155	-17.090	0.701	76.560	<b>76.580</b>	
152	-17.074	0.702	66.190	<b>65.980</b>		154	-17.080	0.701	72.188	<b>71.750</b>		156	-17.110	0.705	79.097	<b>79.740</b>	
153	-17.070	0.702	71.205	<b>70.290</b>		155	-17.086	0.703	77.063	<b>76.390</b>		157	-17.110	0.705	83.166	<b>84.100</b>	
154	-17.070	0.702	74.287	<b>73.570</b>		156	-17.086	0.703	80.154	<b>79.580</b>		158	-17.106	0.705	87.295	<b>87.360</b>	
155	-17.070	0.702	78.541	<b>78.300</b>		157	-17.090	0.703	83.411	<b>84.230</b>		159	-17.108	0.705	91.072	<b>91.760</b>	
156	-17.072	0.703	82.605	<b>81.830</b>		158	-17.090	0.703	86.712	<b>87.460</b>		160	-17.108	0.705	94.412	<b>95.000</b>	
157	-17.072	0.703	87.097	<b>86.460</b>		159	-17.090	0.703	91.166	<b>92.150</b>		161	-17.108	0.705	98.895	<b>99.370</b>	
158	-17.078	0.703	89.142	<b>90.000</b>		160	-17.090	0.703	94.675	<b>95.340</b>		162	-17.110	0.705	101.934	<b>102.860</b>	
159	-17.078	0.703	93.830	<b>94.710</b>		161	-17.090	0.703	99.329	<b>100.120</b>		163	-17.108	0.705	107.128	<b>107.680</b>	
160	-17.076	0.703	98.071	<b>98.420</b>		162	-17.090	0.703	103.044	<b>103.620</b>		164	-17.106	0.705	111.395	<b>111.710</b>	
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Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
174	-17.084	0.703	165.829	<b>165.850</b>		176	-17.096	0.703	170.788	<b>171.290</b>		178	-17.114	0.705	179.078	<b>179.100</b>	
175	-17.084	0.703	172.004	<b>171.590</b>		177	-17.092	0.703	177.994	<b>177.290</b>		179	-17.110	0.705	186.325	<b>185.350</b>	
176	-17.090	0.703	175.662	<b>176.580</b>		178	-17.098	0.703	181.601	<b>182.240</b>		180	-17.110	0.705	191.590	<b>190.680</b>	
177	-17.082	0.702	182.082	<b>182.520</b>		179	-17.096	0.703	188.442	<b>188.750</b>		181	-17.114	0.705	196.828	<b>196.980</b>	
178	-17.084	0.702	186.941	<b>187.790</b>		180	-17.094	0.703	194.384	<b>194.200</b>		182	-17.114	0.705	202.264	<b>202.350</b>	
179	-17.082	0.702	193.955	<b>194.300</b>		181	-17.094	0.703	200.855	<b>200.650</b>		183	-17.114	0.705	208.763	<b>208.620</b>	
180	-17.078	0.702	200.608	<b>200.060</b>		182	-17.096	0.703	205.879	<b>205.870</b>		184	-17.114	0.705	214.370	<b>214.260</b>	
181	-17.080	0.702	206.710	<b>206.440</b>		183	-17.094	0.703	213.062	<b>212.440</b>		185	-17.120	0.705	221.029	<b>221.890</b>	
182	-17.080	0.702	212.451	<b>212.060</b>		184	-17.094	0.703	218.804	<b>218.080</b>		186	-17.120	0.705	228.455	<b>228.170</b>	
183	-17.084	0.702	218.160	<b>218.620</b>		185	-17.096	0.703	226.715	<b>226.190</b>		187	-17.010	0.691	234.630	<b>235.440</b>	
184	-17.080	0.702	225.164	<b>224.570</b>		186	-16.998	0.691	233.033	<b>232.410</b>		188	-17.010	0.691	241.711	<b>241.400</b>	
185	-17.084	0.702	232.697	<b>232.640</b>		187	-17.000	0.691	240.658	<b>240.210</b>		189	-17.014	0.691	248.694	<b>248.330</b>	
186	-17.086	0.702	239.874	<b>239.210</b>		188	-17.004	0.691	246.821	<b>246.250</b>		190	-17.010	0.690	254.574	<b>254.650</b>	
187	-17.094	0.702	246.423	<b>247.100</b>		189	-17.008	0.691	254.009	<b>253.540</b>		191	-17.012	0.690	262.208	<b>261.780</b>	
188	-16.942	0.685	254.066	<b>253.600</b>		190	-17.004	0.690	260.025	<b>259.710</b>		192	-17.020	0.690	267.240	<b>267.920</b>	
189	-16.948	0.685	260.688	<b>260.760</b>		191	-17.008	0.690	267.293	<b>267.180</b>		193	-17.010	0.689	275.827	<b>275.150</b>	
190	-16.948	0.685	268.086	<b>267.220</b>		192	-17.001	0.689	274.175	<b>273.790</b>		194	-17.014	0.689	282.084	<b>281.580</b>	
191	-16.942	0.684	275.594	<b>274.710</b>		193	-17.006	0.689	281.238	<b>281.330</b>		195	-17.018	0.689	289.345	<b>288.910</b>	
192	-16.950	0.684	280.820	<b>281.480</b>		194	-17.012	0.689	287.118	<b>287.750</b>		196	-17.010	0.688	296.460	<b>295.630</b>	
193	-16.950	0.684	289.322	<b>289.500</b>		195	-17.001	0.688	296.137	<b>295.400</b>		197	-17.014	0.688	303.799	<b>303.240</b>	
194	-16.940	0.683	297.044	<b>296.140</b>		196	-17.005	0.688	302.671	<b>301.960</b>		198	-17.018	0.688	310.254	<b>309.740</b>	
195	-16.948	0.683	303.346	<b>303.880</b>		197	-17.008	0.688	310.495	<b>310.120</b>		199	-17.020	0.688	318.284	<b>317.610</b>	
196	-16.950	0.683	310.466	<b>310.690</b>		198	-17.004	0.687	316.587	<b>316.690</b>		200	-17.014	0.687	324.879	<b>324.250</b>	
197	-16.940	0.682	319.175	<b>318.670</b>		199	-17.004	0.687	325.355	<b>324.650</b>		201	-17.018	0.687	332.397	<b>332.020</b>	
198	-16.946	0.682	325.222	<b>325.830</b>		200	-17.008	0.687	332.079	<b>331.600</b>		202	-17.020	0.687	339.629	<b>338.840</b>	
199	-16.944	0.682	334.577	<b>333.860</b>		201	-17.010	0.687	340.376	<b>339.630</b>		203	-17.026	0.687	346.662	<b>346.570</b>	
200	-16.948	0.682	341.311	<b>340.860</b>		202	-17.004	0.686	347.094	<b>346.490</b>		204	-17.020	0.686	353.295	<b>353.400</b>	
201	-16.949	0.682	349.909	<b>349.200</b>		203	-17.008	0.686	354.872	<b>354.420</b>		205	-17.020	0.686	362.174	<b>361.370</b>	
202	-16.952	0.682	357.042	<b>356.400</b>		204	-17.012	0.686	361.775	<b>361.260</b>		206	-17.024	0.686	368.995	<b>368.380</b>	
203	-16.956	0.682	364.866	<b>364.150</b>		205	-17.014	0.686	370.246	<b>369.520</b>		207	-17.020	0.685	375.963	<b>376.410</b>	
204	-16.948	0.681	372.157	<b>371.420</b>		206	-17.010	0.685	376.397	<b>376.480</b>		208	-17.020	0.685	384.052	<b>383.640</b>	
205	-16.951	0.681	380.338	<b>379.610</b>		207	-17.010	0.685	385.531	<b>384.880</b>		209	-17.024	0.685	391.904	<b>391.680</b>	
206	-16.954	0.681	387.643	<b>386.960</b>		208	-17.018	0.685	391.404	<b>392.150</b>		210	-17.025	0.685	399.804	<b>399.070</b>	
207	-16.962	0.681	394.432	<b>395.400</b>		209	-17.020	0.685	400.040	<b>400.440</b>		211	-17.028	0.685	408.058	<b>407.590</b>	
208	-16.964	0.681	402.133	<b>402.890</b>		210	-17.010	0.684	408.010	<b>407.840</b>		212	-17.029	0.685	416.066	<b>415.270</b>	
209	-16.966	0.681	410.804	<b>411.460</b>		211	-17.010	0.684	417.317	<b>416.690</b>		213	-17.024	0.684	423.360	<b>423.980</b>	
210	-16.954	0.680	419.347	<b>418.890</b>		212	-17.029	0.685	423.520	<b>424.340</b>		214	-17.024	0.684	431.742	<b>431.780</b>	
211	-16.954	0.680	428.686	<b>427.760</b>		213	-17.014	0.684	433.964	<b>433.320</b>		215	-17.028	0.684	439.846	<b>440.510</b>	
94	115	-17.260	0.801	55.760	<b>55.630</b>	95	117	-17.270	0.800	59.720	<b>60.150</b>	96	119	-17.280	0.800	62.737	<b>63.070</b>
116	-17.260	0.801	52.532	<b>52.360</b>		118	-17.270	0.800	56.596	<b>56.960</b>		120	-17.280	0.800	59.736	<b>59.980</b>	
117	-17.260	0.801	50.731	<b>50.750</b>		119	-17.270	0.800	54.884	<b>55.400</b>		121	-17.280	0.800	58.130	<b>58.580</b>	
118	-17.260	0.801	47.967	<b>47.570</b>		120	-17.270	0.800	52.216	<b>52.540</b>		122	-17.280	0.800	55.578	<b>55.420</b>	
119	-17.260	0.801	46.617	<b>46.350</b>		121	-17.270	0.800	50.947	<b>51.190</b>		123	-17.280	0.800	54.409	<b>54.120</b>	
120	-17.260	0.800	44.046	<b>43.250</b>		122	-17.270	0.800	48.727	<b>48.420</b>		124	-17.280	0.800	52.297	<b>51.470</b>	
121	-17.270	0.801	41.250	<b>42.210</b>		123	-17.270	0.800	47.892	<b>47.140</b>		125	-17.280	0.800	51.556	<b>50.890</b>	
122	-17.270	0.801	39.376	<b>39.520</b>		124	-17.280	0.800	43.919	<b>44.890</b>		126	-17.290	0.800	47.656	<b>48.610</b>	
123	-17.270	0.801	38.890	<b>38.660</b>		125	-17.280	0.800	43.498	<b>44.380</b>		127	-17.290	0.800	49.010	<b>49.100</b>	
124	-17.270	0.800	37.109	<b>36.460</b>		126	-17.280	0.800	42.133	<b>42.480</b>		128	-17.300	0.800	47.180	<b>47.950</b>	
125	-17.270	0.800	37.024	<b>36.190</b>		127	-17.280	0.800	43.821	<b>42.970</b>		129	-17.300	0.800	48.914	<b>48.470</b>	
126	-17.280	0.800	33.790	<b>34.330</b>		128	-17.290	0.800	42.328	<b>42.700</b>		130	-17.310	0.801	47.873	<b>47.410</b>	
127	-17.280	0.800	35.805	<b>35.930</b>		129	-17.300	0.801	42.582	<b>43.260</b>		131	-17.320	0.801	47.733	<b>48.020</b>	
128	-17.290	0.803	35.942	<b>35.060</b>		130	-17.300	0.800	43.260	<b>42.390</b>		132	-17.330	0.803	47.585	<b>47.150</b>	
129	-17.300	0.803	36.174	<b>36.121</b>		131	-17.310	0.800	43.434	<b>42.970</b>		133	-17.340	0.803	47.830	<b>47.770</b>	
130	-17.310	0.801	34.471	<b>35.280</b>		132	-17.320	0.800	42.644	<b>42.180</b>		134	-17.350	0.803	47.122	<b>46.640</b>	
131	-17.310	0.800	36.736	<b>36.300</b>		133	-17.330	0.800	43.149	<b>42.850</b>		135	-17.360	0.803	47.698	<b>47.270</b>	
132	-17.320	0.800	36.273	<b>35.630</b>		134	-17.340	0.800	42.695	<b>42.180</b>		136	-17.370	0.800	45.594	<b>46.333</b>	
133	-17.330	0.800	37.107	<b>36.770</b>		135	-17.350	0.800	43.524	<b>42.872</b>		137	-17.150	0.707	47.190	<b>47.293</b>	
134	-17.110	0.701	35.165	<b>36.108</b>		136	-17.120	0.700	41.920	<b>42.410</b>		138	-17.150	0.			

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)								
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
151	-17.110	0.701	62.634	63.178		153	-17.130	0.704	70.340	70.563		155	-17.150	0.707	77.047	76.648
152	-17.110	0.701	64.746	65.395		154	-17.130	0.704	72.524	73.104		156	-17.150	0.707	79.309	79.056
153	-17.106	0.701	69.019	69.210		155	-17.145	0.709	77.486	<b>76.570</b>		157	-17.156	0.709	83.407	<b>82.710</b>
154	-17.104	0.701	71.855	<b>71.340</b>		156	-17.146	0.709	79.789	<b>79.410</b>		158	-17.160	0.709	84.935	<b>85.230</b>
155	-17.100	0.701	76.357	<b>75.520</b>		157	-17.150	0.709	82.492	<b>83.310</b>		159	-17.154	0.709	90.153	<b>89.240</b>
156	-17.100	0.701	78.922	<b>78.320</b>		158	-17.150	0.709	85.265	<b>86.260</b>		160	-17.160	0.709	91.384	<b>91.790</b>
157	-17.100	0.701	82.643	<b>82.640</b>		159	-17.148	0.709	89.695	<b>90.200</b>		161	-17.160	0.709	95.285	<b>95.880</b>
158	-17.100	0.701	85.424	<b>85.590</b>		160	-17.150	0.709	92.179	<b>93.130</b>		162	-17.160	0.709	98.265	<b>98.680</b>
159	-17.120	0.705	89.253	<b>89.840</b>		161	-17.150	0.709	96.313	<b>97.230</b>		163	-17.160	0.709	102.375	<b>103.170</b>
160	-17.120	0.705	92.362	<b>92.770</b>		162	-17.150	0.709	99.520	<b>100.380</b>		164	-17.160	0.709	105.567	<b>106.490</b>
161	-17.120	0.705	96.612	<b>97.210</b>		163	-17.150	0.709	103.862	<b>104.860</b>		165	-17.152	0.709	111.972	<b>111.320</b>
162	-17.120	0.705	99.932	100.360		164	-17.146	0.709	108.317	<b>108.490</b>		166	-17.152	0.709	115.382	<b>114.750</b>
163	-17.120	0.705	104.384	<b>105.200</b>		165	-17.148	0.709	112.346	<b>113.310</b>		167	-17.154	0.709	119.383	<b>119.430</b>
164	-17.120	0.705	107.911	<b>108.830</b>		166	-17.142	0.709	117.541	<b>117.030</b>		168	-17.154	0.709	122.997	<b>123.060</b>
165	-17.118	0.705	113.081	<b>113.950</b>		167	-17.140	0.709	122.818	<b>121.820</b>		169	-17.150	0.709	128.780	<b>127.920</b>
166	-17.118	0.705	116.812	<b>117.620</b>		168	-17.144	0.709	125.608	<b>125.660</b>		170	-17.156	0.709	131.005	<b>131.450</b>
167	-17.110	0.705	123.750	<b>122.770</b>		169	-17.144	0.709	130.556	<b>130.460</b>		171	-17.156	0.709	135.921	<b>136.320</b>
168	-17.114	0.705	126.641	<b>126.600</b>		170	-17.146	0.709	134.064	<b>134.300</b>		172	-17.156	0.709	139.935	<b>140.110</b>
169	-17.114	0.705	131.686	<b>131.650</b>		171	-17.146	0.709	139.202	<b>139.200</b>		173	-17.152	0.709	146.118	<b>145.170</b>
170	-17.114	0.705	135.817	<b>135.470</b>		172	-17.150	0.709	142.368	<b>143.190</b>		174	-17.160	0.709	148.172	<b>149.140</b>
171	-17.116	0.705	140.521	<b>140.620</b>		173	-17.150	0.709	147.692	<b>148.330</b>		175	-17.158	0.709	154.006	<b>154.310</b>
172	-17.120	0.705	143.778	<b>144.610</b>		174	-17.150	0.709	152.115	<b>152.550</b>		176	-17.160	0.709	157.862	<b>158.210</b>
173	-17.120	0.705	149.191	<b>150.040</b>		175	-17.150	0.709	157.626	<b>157.720</b>		177	-17.160	0.709	163.338	<b>163.550</b>
174	-17.120	0.705	153.698	<b>154.250</b>		176	-17.151	0.709	161.968	<b>161.940</b>		178	-17.162	0.709	167.377	<b>167.840</b>
175	-17.120	0.705	159.293	<b>159.740</b>		177	-17.150	0.709	167.933	<b>167.300</b>		179	-17.160	0.709	173.584	<b>173.830</b>
176	-17.122	0.705	163.446	<b>163.960</b>		178	-17.150	0.709	172.734	<b>171.900</b>		180	-17.160	0.709	178.356	<b>178.550</b>
177	-17.121	0.705	169.488	<b>169.630</b>		179	-17.154	0.709	177.512	<b>177.910</b>		181	-17.160	0.709	184.193	<b>184.550</b>
178	-17.120	0.705	174.634	<b>174.240</b>		180	-17.150	0.709	183.592	<b>182.940</b>		182	-17.160	0.709	189.148	<b>189.270</b>
179	-17.120	0.705	180.584	<b>180.520</b>		181	-17.156	0.709	187.987	<b>188.980</b>		183	-17.160	0.709	195.161	<b>195.240</b>
180	-17.120	0.705	185.638	<b>185.700</b>		182	-17.150	0.709	194.808	<b>194.070</b>		184	-17.160	0.709	200.296	<b>200.280</b>
181	-17.120	0.705	191.761	<b>191.850</b>		183	-17.154	0.709	199.921	<b>200.030</b>		185	-17.160	0.709	208.133	<b>207.500</b>
182	-17.120	0.705	196.992	<b>196.820</b>		184	-17.150	0.709	206.376	<b>205.380</b>		186	-17.168	0.709	212.832	<b>213.050</b>
183	-17.120	0.705	203.284	<b>203.090</b>		185	-17.156	0.709	212.748	<b>212.540</b>		187	-17.030	0.691	220.217	<b>219.870</b>
184	-17.120	0.705	208.689	<b>208.430</b>		186	-17.020	0.691	218.241	<b>218.430</b>		188	-17.034	0.691	225.568	<b>225.210</b>
185	-17.120	0.705	216.808	<b>216.120</b>		187	-17.024	0.691	224.687	<b>225.160</b>		189	-17.038	0.691	231.900	
186	-17.126	0.705	222.357	<b>222.070</b>		188	-17.024	0.691	231.371	<b>230.880</b>		190	-17.034	0.690	237.407	<b>237.480</b>
187	-17.128	0.705	230.055	<b>229.290</b>		189	-17.020	0.690	237.905	<b>237.600</b>		191	-17.036	0.690	244.439	<b>244.200</b>
188	-17.010	0.690	235.477	<b>234.960</b>		190	-17.024	0.690	243.554	<b>243.310</b>		192	-17.030	0.689	250.513	<b>249.820</b>
189	-17.014	0.690	242.221	<b>241.900</b>		191	-17.020	0.689	250.109	<b>250.130</b>		193	-17.034	0.689	257.061	<b>256.780</b>
190	-17.010	0.689	247.935	<b>247.830</b>		192	-17.022	0.689	256.422	<b>255.930</b>		194	-17.036	0.689	263.307	<b>262.350</b>
191	-17.010	0.689	255.903	<b>254.910</b>		193	-17.030	0.689	262.016	<b>262.880</b>		195	-17.034	0.688	269.214	<b>269.270</b>
192	-17.020	0.689	260.128	<b>260.810</b>		194	-17.020	0.688	269.401	<b>268.940</b>		196	-17.038	0.688	274.966	<b>274.960</b>
193	-17.010	0.688	268.555	<b>268.040</b>		195	-17.024	0.688	276.230	<b>276.020</b>		197	-17.038	0.688	282.882	<b>282.090</b>
194	-17.018	0.688	273.428	<b>274.110</b>		196	-17.028	0.688	282.178	<b>282.060</b>		198	-17.034	0.687	288.476	<b>287.980</b>
195	-17.016	0.688	282.185	<b>281.690</b>		197	-17.029	0.688	289.997	<b>289.250</b>		199	-17.038	0.687	295.301	<b>295.290</b>
196	-17.010	0.687	288.567	<b>287.790</b>		198	-17.024	0.687	296.009	<b>295.390</b>		200	-17.039	0.687	302.143	<b>301.360</b>
197	-17.014	0.687	295.672	<b>295.140</b>		199	-17.026	0.687	303.619	<b>302.740</b>		201	-17.036	0.686	308.399	<b>308.780</b>
198	-17.018	0.687	301.898	<b>301.490</b>		200	-17.030	0.687	309.767	<b>309.120</b>		202	-17.040	0.686	314.432	<b>314.820</b>
199	-17.019	0.687	309.992	<b>309.170</b>		201	-17.024	0.686	317.036	<b>316.590</b>		203	-17.044	0.686	321.440	<b>322.340</b>
200	-17.014	0.686	316.140	<b>315.580</b>		202	-17.030	0.686	322.668	<b>322.930</b>		204	-17.044	0.686	328.785	<b>328.790</b>
201	-17.018	0.686	323.429	<b>323.340</b>		203	-17.030	0.686	331.061	<b>330.500</b>		205	-17.038	0.685	335.975	<b>336.520</b>
202	-17.020	0.686	330.437	<b>329.710</b>		204	-17.036	0.686	336.802	<b>337.230</b>		206	-17.040	0.685	342.801	<b>342.850</b>
203	-17.024	0.686	337.832	<b>337.640</b>		205	-17.030	0.685	344.107	<b>345.000</b>		207	-17.040	0.685	351.201	<b>350.580</b>
204	-17.020	0.685	343.724	<b>344.230</b>		206	-17.030	0.685	351.718	<b>351.670</b>		208	-17.043	0.685	357.841	<b>357.140</b>
205	-17.020	0.685	352.379	<b>352.160</b>		207	-17.030	0.685	360.304	<b>359.400</b>		209	-17.034	0.684	365.981	<b>365.060</b>
206	-17.024	0.685	358.976	<b>358.940</b>		208	-17.034	0.685	366.825	<b>366.110</b>		210	-17.042	0.684	371.166	<b>371.800</b>
207	-17.024	0.685	367.744	<b>366.970</b>		209	-17.030	0.684	373.555	<b>374.000</b>		211	-17.040	0.684	380.364	<b>379.980</b>
208	-17.020	0.684	373.665	<b>373.800</b>		210	-17.028	0.684	381.971	<b>381.100</b>		212	-17.046			

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Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)								
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
127	-17.290	0.800	58.110	<b>57.380</b>		129	-17.310	0.800	62.949	<b>62.820</b>		131	-17.330	0.800	68.855	<b>69.250</b>
128	-17.300	0.800	55.949	<b>56.150</b>		130	-17.320	0.803	61.947	<b>61.330</b>		132	-17.340	0.800	66.754	<b>67.520</b>
129	-17.310	0.801	55.478	<b>56.300</b>		131	-17.330	0.803	61.185	<b>61.250</b>		133	-17.340	0.800	68.260	<b>67.290</b>
130	-17.310	0.801	55.965	<b>55.330</b>		132	-17.340	0.805	60.320	<b>59.510</b>		134	-17.350	0.800	66.516	<b>65.830</b>
131	-17.320	0.801	55.495	<b>55.220</b>		133	-17.350	0.805	59.948	<b>59.650</b>		135	-17.360	0.801	66.512	<b>65.880</b>
132	-17.330	0.802	54.519	<b>53.950</b>		134	-17.360	0.806	59.105	<b>58.260</b>		136	-17.370	0.801	65.131	<b>64.680</b>
133	-17.340	0.802	54.411	<b>54.130</b>		135	-17.370	0.806	59.095	<b>58.780</b>		137	-17.380	0.802	65.529	<b>64.950</b>
134	-17.350	0.803	53.850	<b>53.240</b>		136	-17.380	0.807	58.669	<b>57.730</b>		138	-17.390	0.802	64.506	<b>63.900</b>
135	-17.360	0.803	54.100	<b>53.660</b>		137	-17.390	0.807	59.017	<b>58.330</b>		139	-17.417	0.807	63.527	<b>64.370</b>
136	-17.370	0.803	53.404	<b>52.771</b>		138	-17.390	0.800	56.800	<b>57.380</b>		140	-17.420	0.807	64.619	63.630
137	-17.380	0.803	53.979	53.395		139	-17.180	0.707	57.339	57.938		141	-17.190	0.707	64.451	64.225
138	-17.160	0.707	53.413	52.770		140	-17.180	0.707	57.134	57.278		142	-17.190	0.707	64.260	63.893
139	-17.170	0.708	52.625	53.542		141	-17.180	0.707	58.149	58.202		143	-17.190	0.707	65.279	64.801
140	-17.170	0.708	52.694	53.210		142	-17.180	0.707	58.209	57.989		144	-17.190	0.707	65.352	64.747
141	-17.170	0.708	53.987	54.216		143	-17.180	0.707	59.481	59.327		145	-17.190	0.707	66.623	66.026
142	-17.170	0.708	54.320	54.250		144	-17.180	0.707	59.801	59.387		146	-17.190	0.707	66.953	66.315
143	-17.170	0.708	55.867	55.664		145	-17.180	0.707	61.323	60.990		147	-17.190	0.707	68.473	67.819
144	-17.170	0.708	56.458	55.981		146	-17.180	0.707	61.899	61.478		148	-17.190	0.707	69.055	68.578
145	-17.170	0.708	58.255	57.752		147	-17.180	0.707	63.668	63.385		149	-17.190	0.707	70.820	70.299
146	-17.170	0.708	59.101	58.690		148	-17.180	0.707	64.493	64.090		150	-17.190	0.707	71.649	71.175
147	-17.170	0.708	61.143	60.714		149	-17.180	0.707	66.504	66.109		151	-17.190	0.707	73.653	73.225
148	-17.170	0.708	62.238	61.814		150	-17.180	0.707	67.575	67.238		152	-17.190	0.707	74.726	74.512
149	-17.170	0.708	64.520	63.967		151	-17.180	0.707	69.822	69.723		153	-17.190	0.707	76.963	77.295
150	-17.170	0.708	65.859	65.490		152	-17.180	0.707	71.135	71.170		154	-17.190	0.707	78.275	79.010
151	-17.170	0.708	68.377	68.131		153	-17.180	0.707	73.615	74.135		155	-17.190	0.709	82.595	81.994
152	-17.170	0.708	69.956	69.846		154	-17.180	0.709	77.028	76.035		156	-17.190	0.709	84.201	84.089
153	-17.170	0.708	72.705	72.952		155	-17.180	0.709	79.796	79.302		157	-17.190	0.709	86.957	87.185
154	-17.170	0.708	74.520	75.228		156	-17.180	0.709	81.639	81.341		158	-17.190	0.709	88.795	89.403
155	-17.160	0.707	79.018	78.535		157	-17.180	0.709	84.634	84.809		159	-17.188	0.709	92.290	92.702
156	-17.160	0.707	81.042	80.929		158	-17.180	0.709	86.707	87.041		160	-17.190	0.709	93.840	<b>94.310</b>
157	-17.160	0.707	84.219	84.393	<b>159</b>	-17.180	0.709	89.922	<b>90.230</b>		161	-17.186	0.709	98.078	<b>97.720</b>	
158	-17.166	0.709	87.127	<b>86.620</b>		160	-17.180	0.709	92.221	<b>92.380</b>		162	-17.184	0.709	100.893	100.140
159	-17.164	0.709	91.094	<b>90.340</b>		161	-17.180	0.709	95.654	<b>96.150</b>		163	-17.182	0.709	104.838	103.920
160	-17.170	0.709	92.086	<b>92.860</b>		162	-17.176	0.709	99.214	<b>98.600</b>		164	-17.180	0.709	107.880	106.900
161	-17.170	0.709	95.751	<b>96.610</b>		163	-17.174	0.709	103.386	<b>102.710</b>		165	-17.180	0.709	111.515	111.080
162	-17.170	0.709	98.499	<b>99.420</b>		164	-17.172	0.709	106.653	<b>105.700</b>		166	-17.180	0.709	114.249	114.260
163	-17.168	0.709	102.896	<b>103.570</b>		165	-17.170	0.709	111.044	<b>110.250</b>		167	-17.190	0.711	118.064	118.370
164	-17.162	0.709	107.427	<b>106.900</b>		166	-17.174	0.710	114.272	<b>113.400</b>		168	-17.190	0.711	121.069	121.490
165	-17.160	0.709	112.044	<b>111.420</b>		167	-17.174	0.710	118.375	<b>117.800</b>		169	-17.190	0.711	125.177	126.000
166	-17.160	0.709	115.229	<b>114.880</b>		168	-17.176	0.710	121.045	<b>121.060</b>		170	-17.190	0.711	128.391	129.250
167	-17.162	0.709	119.000	<b>119.260</b>		169	-17.176	0.710	125.349	<b>125.700</b>		171	-17.190	0.711	132.702	133.510
168	-17.158	0.709	123.451	<b>122.860</b>		170	-17.176	0.710	128.757	<b>128.920</b>		172	-17.190	0.711	136.122	136.900
169	-17.160	0.709	127.420	<b>127.490</b>		171	-17.172	0.710	134.336	<b>133.480</b>		173	-17.190	0.711	140.631	141.310
170	-17.160	0.709	131.018	<b>131.020</b>		172	-17.176	0.710	136.871	<b>136.880</b>		174	-17.190	0.711	144.254	144.930
171	-17.160	0.709	135.714	<b>135.590</b>		173	-17.176	0.710	141.570	<b>141.620</b>		175	-17.184	0.711	150.601	149.630
172	-17.160	0.709	139.513	<b>139.380</b>		174	-17.180	0.710	144.292	<b>145.250</b>		176	-17.190	0.711	152.779	153.480
173	-17.160	0.709	144.402	<b>144.120</b>		175	-17.176	0.710	150.273	<b>150.390</b>		177	-17.190	0.711	157.675	158.140
174	-17.161	0.709	148.127	<b>148.060</b>		176	-17.176	0.710	154.279	<b>153.960</b>		178	-17.190	0.711	161.692	162.100
175	-17.160	0.709	153.478	<b>153.100</b>		177	-17.180	0.710	158.262	<b>158.960</b>		179	-17.190	0.711	166.776	167.490
176	-17.160	0.709	157.668	<b>156.970</b>		178	-17.180	0.710	162.457	<b>162.920</b>		180	-17.186	0.711	172.101	171.910
177	-17.164	0.709	161.839	<b>161.960</b>		179	-17.180	0.710	167.721	<b>168.610</b>		181	-17.060	0.692	178.270	177.340
178	-17.164	0.709	166.215	<b>166.270</b>		180	-17.180	0.710	172.106	<b>173.020</b>		182	-17.060	0.692	182.060	181.780
179	-17.160	0.709	172.766	<b>171.960</b>		181	-17.176	0.710	178.669	<b>178.730</b>		183	-17.060	0.692	186.898	187.150
180	-17.160	0.709	177.334	<b>176.680</b>		182	-17.176	0.710	183.245	<b>183.140</b>		184	-17.054	0.692	192.561	191.890
181	-17.160	0.709	182.965	<b>182.370</b>		183	-17.176	0.710	188.876	<b>188.850</b>		185	-17.060	0.692	197.509	198.210
182	-17.160	0.709	187.717	<b>187.230</b>		184	-17.174	0.710	194.200	<b>193.590</b>		186	-17.058	0.692	203.848	203.330
183	-17.160	0.709	193.525	<b>192.890</b>		185	-17.178	0.710	200.521	<b>200.330</b>		187	-17.060	0.692	210.075	209.470
184	-17.160	0.709	198.459	<b>197.920</b>		186	-17.184	0.710	205.392	<b>205.500</b>		188	-17.054	0.691	215.660	214.680
185	-17.162	0.709	205.526	<b>204.620</b>		187	-17.188	0.710	211.854	<b>211.970</b>		189	-17.058	0.691	221.417	220.710
186	-17.170	0.709	210.012	<b>210.090</b>		188	-17.060	0.692	216.679	<b>217.190</b>		190	-17.064	0.691	225.718	225.620
187	-17.038	0.691	216.599	<b>216.570&lt;/</b>												

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
201	-17.050	0.687	303.238	<b>302.820</b>		203	-17.060	0.686	308.061	<b>308.860</b>		205	-17.068	0.686	317.059	<b>316.700</b>	
202	-17.044	0.686	309.362	<b>308.840</b>		204	-17.060	0.686	315.037	<b>315.010</b>		206	-17.069	0.686	323.675	<b>322.900</b>	
203	-17.050	0.686	315.582	<b>316.120</b>		205	-17.060	0.686	322.989	<b>322.310</b>		207	-17.074	0.686	330.032	<b>330.170</b>	
204	-17.050	0.686	322.744	<b>322.510</b>		206	-17.054	0.685	329.055	<b>328.550</b>		208	-17.068	0.685	336.025	<b>336.600</b>	
205	-17.052	0.686	330.277	<b>329.830</b>		207	-17.055	0.685	336.784	<b>336.060</b>		209	-17.070	0.685	343.375	<b>343.960</b>	
206	-17.049	0.685	335.549	<b>336.320</b>		208	-17.062	0.685	341.833	<b>342.430</b>		210	-17.068	0.685	351.120	<b>350.490</b>	
207	-17.046	0.685	344.675	<b>343.860</b>		209	-17.060	0.685	350.594	<b>350.050</b>		211	-17.070	0.685	358.587	<b>358.040</b>	
208	-17.048	0.685	351.437	<b>350.450</b>		210	-17.064	0.685	356.672	<b>356.580</b>		212	-17.071	0.685	365.526	<b>364.770</b>	
209	-17.054	0.685	357.935	<b>358.050</b>		211	-17.064	0.685	364.936	<b>364.430</b>		213	-17.074	0.685	372.792	<b>372.440</b>	
210	-17.054	0.685	365.421	<b>364.860</b>		212	-17.060	0.684	370.472	<b>371.180</b>		214	-17.078	0.685	378.909	<b>379.300</b>	
211	-17.050	0.684	371.950	<b>372.730</b>		213	-17.060	0.684	378.810	<b>379.180</b>		215	-17.080	0.685	386.591	<b>387.040</b>	
212	-17.046	0.684	380.750	<b>379.760</b>		214	-17.064	0.684	385.067	<b>386.060</b>		216	-17.081	0.685	393.759	<b>393.900</b>	
213	-17.050	0.684	388.032	<b>387.800</b>		215	-17.060	0.684	394.768	<b>394.100</b>		217	-17.070	0.684	402.355	<b>401.740</b>	
214	-17.050	0.684	395.715	<b>394.970</b>		216	-17.064	0.684	401.136	<b>401.020</b>		218	-17.074	0.684	408.650	<b>408.670</b>	
215	-17.054	0.684	403.098	<b>403.070</b>		217	-17.064	0.684	409.698	<b>409.110</b>		219	-17.074	0.684	417.146	<b>416.660</b>	
216	-17.054	0.684	410.894	<b>410.290</b>		218	-17.066	0.684	416.802	<b>416.060</b>		220	-17.076	0.684	424.183	<b>423.820</b>	
217	-17.060	0.684	417.749	<b>418.390</b>		219	-17.068	0.684	424.839	<b>424.330</b>		221	-17.076	0.684	432.787	<b>432.030</b>	
218	-17.058	0.684	426.283	<b>425.690</b>		220	-17.070	0.684	432.050	<b>431.530</b>		222	-17.076	0.684	440.575	<b>439.710</b>	
219	-17.060	0.684	434.496	<b>433.940</b>		221	-17.070	0.684	440.826	<b>440.020</b>		223	-17.079	0.684	448.322	<b>448.130</b>	
220	-17.062	0.684	441.880	<b>441.420</b>		222	-17.072	0.684	448.144	<b>447.700</b>		224	-17.078	0.684	456.543	<b>455.880</b>	
221	-17.061	0.684	451.147	<b>450.160</b>		223	-17.072	0.684	457.026	<b>456.390</b>		225	-17.078	0.684	465.363	<b>464.370</b>	
222	-17.066	0.684	457.681	<b>457.930</b>		224	-17.072	0.684	465.094	<b>464.160</b>		226	-17.080	0.684	472.721	<b>472.200</b>	
223	-17.064	0.684	467.373	<b>466.620</b>		225	-17.076	0.684	472.791	<b>473.080</b>		227	-17.094	0.685	480.866	<b>480.800</b>	
224	-17.066	0.684	474.966	<b>474.760</b>		226	-17.075	0.684	481.287	<b>480.750</b>		228	-17.083	0.684	488.780	<b>488.710</b>	
						227	-17.075	0.684	490.378	<b>489.630</b>		229	-17.084	0.684	497.477	<b>497.440</b>	
100	126	-17.320	0.803	80.282	<b>81.070</b>	101	128	-17.301	0.800	93.915	<b>93.140</b>	102	130	-17.330	0.802	96.802	<b>97.630</b>
127	-17.320	0.802	80.101	<b>80.740</b>		129	-17.310	0.800	91.980	<b>92.180</b>		131	-17.350	0.802	92.370	<b>92.490</b>	
128	-17.300	0.802	83.807	<b>83.720</b>		130	-17.330	0.800	86.569	<b>85.630</b>		132	-17.351	0.800	90.791	<b>89.910</b>	
129	-17.302	0.802	83.844	<b>83.070</b>		131	-17.340	0.800	84.750	<b>84.690</b>		133	-17.360	0.800	89.236	<b>89.200</b>	
130	-17.330	0.802	76.976	<b>76.480</b>		132	-17.350	0.803	83.040	<b>82.500</b>		134	-17.370	0.802	87.252	<b>86.900</b>	
131	-17.340	0.802	75.526	<b>75.940</b>		133	-17.360	0.803	81.634	<b>81.830</b>		135	-17.380	0.802	85.852	<b>86.460</b>	
132	-17.350	0.802	73.139	<b>73.820</b>		134	-17.360	0.801	80.871	<b>79.910</b>		136	-17.386	0.800	83.662	<b>84.540</b>	
133	-17.350	0.802	74.368	<b>73.520</b>		135	-17.370	0.801	79.775	<b>79.470</b>		137	-17.390	0.800	83.992	<b>84.520</b>	
134	-17.360	0.802	72.343	<b>71.650</b>		136	-17.386	0.803	77.202	<b>78.070</b>		138	-17.400	0.800	81.975	<b>82.890</b>	
135	-17.370	0.802	71.592	<b>71.610</b>		137	-17.390	0.803	77.909	<b>78.020</b>		139	-17.400	0.800	83.615	<b>83.010</b>	
136	-17.380	0.804	70.836	<b>70.200</b>		138	-17.398	0.801	75.786	<b>76.710</b>		140	-17.415	0.800	80.729	<b>81.420</b>	
137	-17.390	0.804	70.466	<b>70.510</b>		139	-17.400	0.801	77.274	<b>76.830</b>		141	-17.420	0.800	81.502	<b>81.650</b>	
138	-17.406	0.805	68.255	<b>69.150</b>		140	-17.417	0.802	74.776	<b>75.590</b>		142	-17.436	0.802	79.794	<b>80.370</b>	
139	-17.410	0.805	69.666	<b>69.600</b>		141	-17.420	0.802	76.385	<b>75.840</b>		143	-17.440	0.802	81.187	<b>80.940</b>	
140	-17.430	0.807	67.456	<b>68.410</b>		142	-17.438	0.803	74.031	<b>74.920</b>		144	-17.448	0.800	79.488	<b>80.060</b>	
141	-17.430	0.807	70.214	<b>69.220</b>		143	-17.440	0.803	76.238	<b>75.597</b>		145	-17.450	0.800	81.651	<b>80.870</b>	
142	-17.210	0.710	68.892	<b>68.400</b>		144	-17.220	0.710	75.961	<b>75.325</b>		146	-17.270	0.723	79.708	<b>80.689</b>	
143	-17.210	0.710	69.724	<b>69.316</b>		145	-17.220	0.710	76.800	<b>76.115</b>		147	-17.270	0.723	80.842	<b>81.787</b>	
144	-17.210	0.710	69.616	<b>68.964</b>		146	-17.220	0.710	76.707	<b>75.936</b>		148	-17.270	0.723	81.057	<b>81.566</b>	
145	-17.210	0.710	70.706	<b>70.192</b>		147	-17.220	0.710	77.801	<b>76.948</b>		149	-17.270	0.723	82.454	<b>82.849</b>	
146	-17.210	0.710	70.859	<b>70.191</b>		148	-17.220	0.710	77.967	<b>77.181</b>		150	-17.270	0.723	82.937	<b>82.871</b>	
147	-17.210	0.710	72.203	<b>71.672</b>		149	-17.220	0.710	79.312	<b>78.399</b>		151	-17.270	0.723	84.594	<b>84.359</b>	
148	-17.210	0.710	72.614	<b>71.898</b>		150	-17.220	0.710	79.732	<b>78.967</b>		152	-17.270	0.723	85.339	<b>84.723</b>	
149	-17.210	0.710	74.206	<b>73.519</b>		151	-17.220	0.710	81.323	<b>80.467</b>		153	-17.270	0.723	87.250	<b>86.812</b>	
150	-17.210	0.710	74.868	<b>74.072</b>		152	-17.220	0.710	81.993	<b>81.173</b>		154	-17.270	0.723	88.254	<b>87.823</b>	
151	-17.210	0.710	76.704	<b>75.959</b>		153	-17.220	0.710	83.825	<b>83.453</b>		155	-17.270	0.723	90.414	<b>90.247</b>	
152	-17.210	0.710	77.615	<b>76.817</b>		154	-17.220	0.710	84.741	<b>84.842</b>		156	-17.270	0.723	91.671	<b>91.477</b>	
153	-17.210	0.710	79.689	<b>79.346</b>		155	-17.220	0.710	86.810	<b>87.456</b>		157	-17.270	0.723	94.076	<b>94.079</b>	
154	-17.210	0.710	80.843	<b>80.903</b>		156	-17.220	0.712	89.742	<b>88.992</b>		158	-17.270	0.723	95.581	<b>95.610</b>	
155	-17.220	0.714	84.184	<b>83.800</b>		157	-17.220	0.712	92.103	<b>91.690</b>		159	-17.270	0.723	98.227	<b>98.455</b>	
156	-17.220	0.714	85.685	<b>85.485</b>		158	-17.220	0.712	93.555	<b>93.564</b>		160	-17.270	0.723	99.977	<b>100.101</b>	
157	-17.220	0.714	88.335	<b>88.590</b>		159	-17.220	0.712	96.145	<b>96.550</b>		161	-17.270	0.723	102.859	<b>103.129</b>	
158	-17.220	0.714	90.075	<b>90.426</b>		160	-17.220	0.712	97.831	<b>98.578</b>		162	-17.270	0.723	104.849	<b>105.011</b>	
159	-17.220	0.714	92.954	<b>93.704</b>		161	-17										

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)						
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.			
175	-17.188	0.710	148.307	<b>147.600</b>		177	-17.220	0.714	155.440	<b>155.780</b>		179	-17.224	0.714	163.076	<b>162.580</b>
176	-17.190	0.710	151.336	<b>151.210</b>		178	-17.216	0.714	160.244	<b>159.410</b>		180	-17.224	0.714	166.754	<b>166.440</b>
177	-17.190	0.710	155.986	<b>155.870</b>		179	-17.220	0.714	163.880	<b>164.470</b>		181	-17.224	0.714	171.488	<b>171.370</b>
178	-17.190	0.710	159.762	<b>159.500</b>		180	-17.220	0.714	167.765	<b>168.560</b>		182	-17.224	0.714	175.361	<b>175.240</b>
179	-17.186	0.710	165.718	<b>164.860</b>		181	-17.214	0.714	174.400	<b>173.650</b>		183	-17.080	0.691	181.232	<b>180.290</b>
180	-17.190	0.710	168.571	<b>168.950</b>		182	-17.214	0.714	178.486	<b>177.800</b>		184	-17.078	0.691	185.140	<b>184.410</b>
181	-17.190	0.710	173.598	<b>174.330</b>		183	-17.214	0.714	183.622	<b>182.860</b>		185	-17.078	0.691	191.143	<b>190.420</b>
182	-17.184	0.710	179.449	<b>178.480</b>		184	-17.214	0.714	187.899	<b>187.260</b>		186	-17.080	0.691	195.702	<b>194.950</b>
183	-17.184	0.710	184.665	<b>183.850</b>		185	-17.218	0.714	193.709	<b>193.230</b>		187	-17.080	0.691	201.857	<b>200.920</b>
184	-17.184	0.710	189.017	<b>188.280</b>		186	-17.222	0.714	198.647	<b>198.050</b>		188	-17.084	0.691	205.988	<b>205.490</b>
185	-17.188	0.710	194.910	<b>194.650</b>		187	-17.078	0.692	204.361	<b>203.870</b>		189	-17.080	0.690	211.513	<b>211.350</b>
186	-17.190	0.710	200.498	<b>199.500</b>		188	-17.080	0.692	209.304	<b>208.810</b>		190	-17.084	0.690	215.752	<b>215.640</b>
187	-17.058	0.690	205.746	<b>205.660</b>		189	-17.084	0.692	214.682	<b>214.600</b>		191	-17.080	0.689	221.318	<b>221.340</b>
188	-17.058	0.690	211.401	<b>210.570</b>		190	-17.080	0.691	219.481	<b>219.070</b>		192	-17.081	0.689	226.543	<b>225.740</b>
189	-17.060	0.690	217.497	<b>216.700</b>		191	-17.084	0.691	224.958	<b>224.780</b>		193	-17.084	0.689	232.180	<b>231.630</b>
190	-17.060	0.689	221.220	<b>221.260</b>		192	-17.080	0.690	229.798	<b>229.530</b>		194	-17.080	0.688	236.894	<b>236.290</b>
191	-17.060	0.689	227.997	<b>227.240</b>		193	-17.082	0.690	235.960	<b>235.430</b>		195	-17.084	0.688	242.332	<b>242.340</b>
192	-17.064	0.689	232.741	<b>232.000</b>		194	-17.080	0.689	240.251	<b>240.360</b>		196	-17.080	0.687	247.081	<b>247.040</b>
193	-17.060	0.688	238.629	<b>238.220</b>		195	-17.080	0.689	247.102	<b>246.460</b>		197	-17.080	0.687	253.806	<b>253.190</b>
194	-17.062	0.688	244.058	<b>243.220</b>		196	-17.084	0.689	251.912	<b>251.540</b>		198	-17.084	0.687	258.484	<b>257.940</b>
195	-17.068	0.688	249.304	<b>249.590</b>		197	-17.080	0.688	257.780	<b>257.580</b>		199	-17.090	0.687	263.537	<b>264.140</b>
196	-17.060	0.687	255.505	<b>254.670</b>		198	-17.082	0.688	263.281	<b>262.790</b>		200	-17.086	0.686	268.378	<b>269.070</b>
197	-17.064	0.687	261.430	<b>261.100</b>		199	-17.084	0.688	269.765	<b>268.910</b>		201	-17.088	0.686	274.723	<b>275.410</b>
198	-17.070	0.687	265.897	<b>266.280</b>		200	-17.084	0.687	273.567	<b>274.190</b>		202	-17.088	0.686	280.830	<b>280.510</b>
199	-17.060	0.686	273.682	<b>272.820</b>		201	-17.088	0.687	279.533	<b>280.520</b>		203	-17.088	0.686	287.912	<b>287.170</b>
200	-17.064	0.686	278.837	<b>277.980</b>		202	-17.090	0.687	285.253	<b>285.920</b>		204	-17.084	0.685	292.839	<b>292.700</b>
201	-17.070	0.686	284.365	<b>284.560</b>		203	-17.088	0.687	293.161	<b>292.570</b>		205	-17.088	0.685	298.785	<b>299.610</b>
202	-17.066	0.685	289.485	<b>290.080</b>		204	-17.084	0.686	298.242	<b>298.420</b>		206	-17.090	0.685	304.503	<b>305.420</b>
203	-17.068	0.685	296.297	<b>297.000</b>		205	-17.084	0.686	305.635	<b>305.290</b>		207	-17.086	0.685	313.035	<b>312.520</b>
204	-17.068	0.685	302.869	<b>302.830</b>		206	-17.088	0.686	310.963	<b>311.370</b>		208	-17.090	0.685	318.263	<b>318.340</b>
205	-17.068	0.685	310.413	<b>310.050</b>		207	-17.090	0.686	317.862	<b>318.330</b>		209	-17.090	0.685	325.685	<b>325.550</b>
206	-17.074	0.685	315.281	<b>315.950</b>		208	-17.088	0.686	325.161	<b>324.420</b>		210	-17.094	0.685	331.031	<b>331.340</b>
207	-17.070	0.685	324.172	<b>323.310</b>		209	-17.090	0.686	332.182	<b>331.580</b>		211	-17.092	0.685	339.200	<b>338.610</b>
208	-17.068	0.684	328.790	<b>329.400</b>		210	-17.092	0.686	338.370	<b>337.850</b>		212	-17.094	0.685	345.292	<b>344.820</b>
209	-17.064	0.684	337.774	<b>336.860</b>		211	-17.094	0.686	345.506	<b>345.130</b>		213	-17.090	0.684	351.286	<b>352.160</b>
210	-17.070	0.684	342.833	<b>343.100</b>		212	-17.090	0.685	350.740	<b>351.510</b>		214	-17.090	0.684	358.089	<b>358.280</b>
211	-17.070	0.684	350.699	<b>350.670</b>		213	-17.090	0.685	358.579	<b>358.880</b>		215	-17.090	0.684	365.833	<b>365.700</b>
212	-17.074	0.684	356.488	<b>357.080</b>		214	-17.090	0.685	365.594	<b>365.340</b>		216	-17.091	0.684	372.441	<b>371.880</b>
213	-17.070	0.684	365.722	<b>364.730</b>		215	-17.090	0.685	373.553	<b>372.730</b>		217	-17.096	0.684	378.708	<b>379.360</b>
214	-17.074	0.684	371.625	<b>371.260</b>		216	-17.094	0.685	379.423	<b>379.270</b>		218	-17.096	0.684	385.750	<b>385.730</b>
215	-17.074	0.684	379.725	<b>378.930</b>		217	-17.096	0.685	386.859	<b>386.720</b>		219	-17.096	0.684	393.723	<b>393.380</b>
216	-17.076	0.684	386.368	<b>385.530</b>		218	-17.096	0.685	394.112	<b>393.380</b>		220	-17.098	0.684	400.242	<b>399.930</b>
217	-17.078	0.684	393.948	<b>393.260</b>		219	-17.098	0.685	401.659	<b>401.040</b>		221	-17.098	0.684	408.329	<b>407.740</b>
218	-17.080	0.684	400.703	<b>399.950</b>		220	-17.101	0.685	408.066	<b>407.900</b>		222	-17.102	0.684	414.311	<b>414.600</b>
219	-17.096	0.685	407.255	<b>407.940</b>		221	-17.092	0.684	415.897	<b>415.960</b>		223	-17.099	0.684	423.481	<b>422.770</b>
220	-17.096	0.685	414.792	<b>414.770</b>		222	-17.090	0.684	423.989	<b>423.100</b>		224	-17.101	0.684	430.223	<b>429.810</b>
221	-17.096	0.685	423.259	<b>423.160</b>		223	-17.094	0.684	431.063	<b>431.190</b>		225	-17.102	0.684	438.205	<b>438.060</b>
222	-17.095	0.685	431.235	<b>430.290</b>		224	-17.096	0.684	437.973	<b>438.720</b>		226	-17.102	0.684	445.710	<b>445.220</b>
223	-17.098	0.685	438.846	<b>438.670</b>		225	-17.095	0.684	446.775	<b>446.890</b>		227	-17.102	0.684	454.128	<b>453.550</b>
224	-17.098	0.685	446.611	<b>446.170</b>		226	-17.098	0.684	453.465	<b>454.450</b>		228	-17.107	0.684	460.096	<b>460.830</b>
225	-17.098	0.685	455.297	<b>454.670</b>		227	-17.104	0.685	463.729	<b>462.780</b>		229	-17.102	0.684	470.272	<b>469.430</b>
226	-17.099	0.685	462.849	<b>462.170</b>		228	-17.094	0.684	471.144	<b>470.410</b>		230	-17.104	0.684	477.338	<b>476.860</b>
227	-17.088	0.684	471.523	<b>470.770</b>		229	-17.108	0.685	478.964	<b>478.840</b>		231	-17.108	0.684	484.637	<b>485.430</b>
228	-17.102	0.685	478.648	<b>478.410</b>		230	-17.108	0.685	486.894	<b>486.730</b>		232	-17.108	0.684	492.471	<b>492.960</b>
229	-17.094	0.684	486.360	<b>487.110</b>		231	-17.108	0.685	495.729	<b>495.260</b>		233	-17.108	0.684	501.204	<b>501.700</b>
230	-17.106	0.685	494.318	<b>494.890</b>		232	-17.108	0.685	503.768	<b>503.140</b>		234	-17.104	0.684	510.490	<b>509.640</b>
231	-17.102	0.685	504.639	<b>503.780</b>		233	-17.108	0.685	512.707	<b>511.760</b>		235	-17.105	0.684	518.993	<b>518.280</b>
236	-17.108															

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)								
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$					
148	-17.270	0.721	88.151	87.830		150	-17.300	0.727	93.004	93.201		152	-17.304	0.725	100.402	100.154
149	-17.270	0.721	89.254	88.537		151	-17.300	0.727	94.254	94.329		153	-17.304	0.725	101.618	101.508
150	-17.270	0.721	89.446	88.523		152	-17.300	0.727	94.604	94.222		154	-17.300	0.725	102.975	101.991
151	-17.276	0.721	89.285	89.646		153	-17.300	0.727	96.116	95.866		155	-17.300	0.725	104.451	103.673
152	-17.272	0.721	90.753	89.947		154	-17.300	0.727	96.731	96.344		156	-17.300	0.725	105.038	104.308
153	-17.272	0.721	92.369	91.747		155	-17.300	0.727	98.501	98.367		157	-17.300	0.725	106.767	106.253
154	-17.270	0.721	93.593	92.665		156	-17.300	0.727	99.376	99.148		158	-17.300	0.725	107.609	107.110
155	-17.270	0.721	95.460	94.782		157	-17.300	0.727	101.398	101.318		159	-17.300	0.725	109.587	109.262
156	-17.270	0.721	96.427	95.851		158	-17.300	0.727	102.529	102.392		160	-17.300	0.725	110.681	110.382
157	-17.270	0.721	98.540	98.277		159	-17.300	0.727	104.799	104.757		161	-17.270	0.717	113.619	112.740
158	-17.270	0.721	99.755	99.557		160	-17.300	0.727	106.182	106.075		162	-17.270	0.717	114.753	114.014
159	-17.270	0.721	102.109	102.105		161	-17.300	0.727	108.695	108.690		163	-17.270	0.717	117.004	117.060
160	-17.270	0.721	103.569	103.669		162	-17.300	0.727	110.324	110.136		164	-17.270	0.717	118.375	119.148
161	-17.270	0.721	106.159	106.375		163	-17.300	0.727	113.077	113.444		165	-17.264	0.717	122.475	122.397
162	-17.270	0.721	107.860	108.233		164	-17.300	0.727	114.949	115.476		166	-17.270	0.717	122.458	121.900
163	-17.270	0.721	110.683	111.662		165	-17.260	0.716	116.958	<b>116.550</b>		167	-17.270	0.717	125.163	125.220
164	-17.254	0.716	111.546	<b>111.600</b>		166	-17.260	0.716	118.759	<b>118.740</b>		168	-17.278	0.720	128.169	127.410
165	-17.250	0.716	115.526	<b>115.150</b>		167	-17.260	0.716	121.664	<b>122.330</b>		169	-17.276	0.720	131.732	130.850
166	-17.250	0.716	117.554	<b>117.660</b>		168	-17.268	0.719	124.986	<b>124.500</b>		170	-17.278	0.720	133.330	133.180
167	-17.245	0.716	122.036	<b>121.280</b>		169	-17.266	0.719	128.745	<b>128.270</b>		171	-17.280	0.720	136.012	136.410
168	-17.244	0.716	124.565	<b>123.790</b>		170	-17.268	0.719	130.540	<b>130.590</b>		172	-17.278	0.720	138.934	138.760
169	-17.246	0.716	127.376	<b>127.560</b>		171	-17.268	0.719	133.970	<b>134.170</b>		173	-17.278	0.720	142.383	142.110
170	-17.246	0.716	129.853	<b>130.280</b>		172	-17.270	0.719	135.979	<b>136.540</b>		174	-17.276	0.720	145.530	144.640
171	-17.252	0.717	133.071	<b>133.880</b>		173	-17.266	0.719	140.728	<b>140.220</b>		175	-17.278	0.720	148.635	148.320
172	-17.246	0.717	137.443	<b>136.610</b>		174	-17.268	0.719	142.952	<b>142.770</b>		176	-17.282	0.720	150.315	151.310
173	-17.250	0.717	140.149	<b>140.320</b>		175	-17.266	0.719	147.363	<b>146.770</b>		177	-17.274	0.720	156.437	155.620
174	-17.246	0.717	144.194	<b>143.230</b>		176	-17.270	0.719	149.236	<b>149.790</b>		178	-17.274	0.720	159.458	158.500
175	-17.248	0.717	147.655	<b>147.240</b>		177	-17.264	0.719	154.979	<b>154.150</b>		179	-17.274	0.720	163.538	162.790
176	-17.246	0.717	151.362	<b>150.590</b>		178	-17.268	0.719	157.056	<b>157.130</b>		180	-17.274	0.720	166.766	166.210
177	-17.250	0.717	154.462	<b>154.920</b>		179	-17.264	0.719	162.450	<b>161.760</b>		181	-17.274	0.720	171.047	170.520
178	-17.250	0.717	157.815	<b>158.230</b>		180	-17.264	0.719	165.860	<b>165.220</b>		182	-17.274	0.720	174.481	174.100
179	-17.248	0.717	162.795	<b>162.890</b>		181	-17.264	0.719	170.325	<b>169.830</b>		183	-17.274	0.720	178.961	178.570
180	-17.244	0.717	167.486	<b>166.660</b>		182	-17.264	0.719	173.938	<b>173.380</b>		184	-17.278	0.720	181.440	182.370
181	-17.244	0.717	172.103	<b>171.380</b>		183	-17.264	0.719	178.599	<b>178.120</b>		185	-17.280	0.720	187.148	187.760
182	-17.244	0.717	175.865	<b>175.260</b>		184	-17.264	0.719	182.411	<b>181.950</b>		186	-17.280	0.720	192.586	191.910
183	-17.244	0.717	180.676	<b>180.010</b>		185	-17.270	0.719	187.152	<b>187.680</b>		187	-17.076	0.690	205.899	205.230
184	-17.244	0.717	184.634	<b>184.080</b>		186	-17.270	0.719	192.769	<b>191.850</b>		188	-17.110	0.690	206.622	201.580
185	-17.248	0.717	190.108	<b>189.740</b>		187	-17.274	0.719	198.249	<b>197.600</b>		189	-17.110	0.690	206.284	206.950
186	-17.252	0.717	194.717	<b>194.230</b>		188	-17.100	0.690	201.418	<b>201.900</b>		190	-17.110	0.690	211.094	211.330
187	-17.256	0.717	200.346	<b>199.890</b>		189	-17.100	0.690	207.282	<b>207.530</b>		191	-17.110	0.690	216.910	216.430
188	-17.260	0.717	205.115	<b>204.470</b>		190	-17.100	0.690	212.293	<b>211.790</b>		192	-17.110	0.689	219.970	220.490
189	-17.090	0.690	209.646	<b>210.060</b>		191	-17.104	0.690	217.129	<b>217.200</b>		193	-17.110	0.689	225.898	225.760
190	-17.090	0.690	214.854	<b>214.390</b>		192	-17.100	0.689	221.518	<b>221.290</b>		194	-17.110	0.689	230.982	230.020
191	-17.090	0.689	219.102	<b>219.730</b>		193	-17.100	0.689	227.644	<b>226.840</b>		195	-17.114	0.689	235.858	235.400
192	-17.090	0.689	224.424	<b>224.170</b>		194	-17.100	0.688	230.891	<b>231.120</b>		196	-17.110	0.688	240.232	239.720
193	-17.090	0.689	230.747	<b>229.770</b>		195	-17.100	0.688	237.125	<b>236.840</b>		197	-17.112	0.688	245.810	245.190
194	-17.090	0.688	234.136	<b>234.340</b>		196	-17.104	0.688	241.314	<b>241.210</b>		198	-17.110	0.687	249.621	249.660
195	-17.090	0.688	240.565	<b>240.080</b>		197	-17.100	0.687	246.743	<b>246.960</b>		199	-17.110	0.687	255.905	255.220
196	-17.094	0.688	244.950	<b>244.770</b>		198	-17.102	0.687	251.635	<b>251.450</b>		200	-17.114	0.687	260.135	259.790
197	-17.090	0.687	250.515	<b>250.540</b>		199	-17.102	0.687	258.112	<b>257.340</b>		201	-17.116	0.687	265.944	265.450
198	-17.094	0.687	254.997	<b>255.370</b>		200	-17.100	0.686	262.091	<b>261.860</b>		202	-17.115	0.686	269.543	270.290
199	-17.098	0.687	260.454	<b>261.210</b>		201	-17.100	0.686	268.666	<b>267.850</b>		203	-17.116	0.686	275.752	276.360
200	-17.094	0.686	265.166	<b>266.080</b>		202	-17.104	0.686	273.182	<b>272.690</b>		204	-17.114	0.686	282.056	281.600
201	-17.091	0.686	272.839	<b>272.110</b>		203	-17.109	0.686	278.355	<b>279.100</b>		205	-17.114	0.686	288.709	287.920
202	-17.094	0.686	277.850	<b>277.260</b>		204	-17.106	0.686	285.149	<b>284.350</b>		206	-17.120	0.686	292.670	293.340
203	-17.096	0.686	284.133	<b>283.560</b>		205	-17.106	0.686	291.988	<b>291.010</b>		207	-17.118	0.686	300.075	299.800
204	-17.100	0.686	288.963	<b>289.090</b>		206	-17.100	0.685	297.347	<b>296.420</b>		208	-17.120	0.686	305.408	305.320
205	-17.102	0.686	295.369	<b>295.820</b>		207	-17.106	0.685	302.415	<b>303.170</b>		209	-17.110	0.685	312.874	311.880
206	-17.101	0.686	301.866	<b>301.450</b>		208	-17.104	0.685	309.142	<b>308.660</b>		210	-17.116	0.685	317.044	317.490
207	-17.101	0.686	309.017	<b>308.300</b>		209	-17.106	0.								

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)											
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.						
222	-17.108	0.684	407.879	<b>408.240</b>		224	-17.118	0.684	414.625	<b>415.220</b>		226	-17.120	0.684	424.849	<b>424.060</b>			
223	-17.108	0.684	415.904	<b>416.090</b>		225	-17.114	0.684	423.907	<b>423.140</b>		227	-17.132	0.685	432.167	<b>431.790</b>			
224	-17.108	0.684	423.126	<b>423.120</b>		226	-17.116	0.684	430.420	<b>430.000</b>		228	-17.135	0.685	438.325	<b>438.790</b>			
225	-17.108	0.684	431.263	<b>431.100</b>		227	-17.126	0.685	438.642	<b>438.190</b>		229	-17.132	0.685	447.385	<b>446.650</b>			
226	-17.108	0.684	438.601	<b>438.250</b>		228	-17.118	0.684	445.123	<b>445.190</b>		230	-17.135	0.685	453.653	<b>453.790</b>			
227	-17.118	0.685	447.068	<b>446.240</b>		229	-17.120	0.684	452.645	<b>453.310</b>		231	-17.133	0.685	462.494	<b>461.760</b>			
228	-17.108	0.684	454.302	<b>453.710</b>		230	-17.118	0.684	460.710	<b>460.500</b>		232	-17.133	0.685	469.880	<b>469.050</b>			
229	-17.108	0.684	462.661	<b>461.900</b>		231	-17.120	0.684	468.338	<b>468.730</b>		233	-17.138	0.685	476.471	<b>477.120</b>			
230	-17.110	0.684	469.560	<b>469.320</b>		232	-17.118	0.684	476.519	<b>476.020</b>		234	-17.138	0.685	483.964	<b>484.670</b>			
231	-17.109	0.684	478.360	<b>477.630</b>		233	-17.118	0.684	484.925	<b>484.380</b>									
232	-17.110	0.684	485.700	<b>485.150</b>		234	-17.120	0.684	491.871	<b>491.920</b>									
233	-17.110	0.684	494.271	<b>493.650</b>		235	-17.120	0.684	500.381	<b>500.650</b>									
234	-17.110	0.684	502.055	<b>501.350</b>															
235	-17.112	0.684	510.056	<b>510.110</b>															
236	-17.110	0.684	518.624	<b>517.800</b>															
106	138	-17.416	0.800	114.120	<b>114.960</b>		107	140	-17.430	0.800	120.857	<b>121.580</b>		108	142	-17.450	0.802	125.820	<b>126.650</b>
139	-17.420	0.800	113.559	<b>114.380</b>		141	-17.430	0.800	121.334	<b>120.800</b>		143	-17.450	0.802	126.397	<b>126.090</b>			
140	-17.428	0.800	111.128	<b>112.120</b>		142	-17.446	0.802	117.794	<b>118.720</b>		144	-17.458	0.800	123.221	<b>123.910</b>			
141	-17.430	0.800	111.413	<b>111.690</b>		143	-17.450	0.802	117.668	<b>118.080</b>		145	-17.460	0.800	123.603	<b>123.480</b>			
142	-17.440	0.800	108.835	<b>109.580</b>		144	-17.454	0.800	115.742	<b>116.290</b>		146	-17.474	0.802	121.042	<b>121.550</b>			
143	-17.440	0.800	109.967	<b>109.390</b>		145	-17.460	0.800	115.413	<b>115.960</b>		147	-17.480	0.802	120.788	<b>121.370</b>			
144	-17.458	0.802	106.708	<b>107.660</b>		146	-17.466	0.800	114.207	<b>114.400</b>		148	-17.490	0.802	118.643	<b>119.630</b>			
145	-17.460	0.802	107.726	<b>107.660</b>		147	-17.470	0.800	114.715	<b>114.250</b>		149	-17.490	0.802	120.255	<b>119.690</b>			
146	-17.468	0.800	105.283	<b>106.150</b>		148	-17.488	0.802	111.906	<b>112.900</b>		150	-17.500	0.800	117.269	<b>118.180</b>			
147	-17.470	0.800	106.591	<b>106.360</b>		149	-17.490	0.802	113.295	<b>112.970</b>		151	-17.500	0.800	119.165	<b>118.520</b>			
148	-17.486	0.802	104.653	<b>105.080</b>		150	-17.498	0.800	111.055	<b>111.810</b>		152	-17.514	0.802	117.840	<b>117.500</b>			
149	-17.490	0.802	105.827	<b>105.520</b>		151	-17.500	0.800	112.720	<b>112.170</b>		153	-17.520	0.802	118.547	<b>118.390</b>			
150	-17.498	0.800	103.819	<b>104.430</b>		152	-17.510	0.800	111.454	<b>111.500</b>		154	-17.530	0.802	117.347	<b>117.880</b>			
151	-17.500	0.800	105.773	<b>105.120</b>		153	-17.330	0.729	113.698	113.123		155	-17.334	0.727	120.085	119.678			
152	-17.330	0.731	105.158	105.296		154	-17.330	0.729	113.628	113.079		156	-17.334	0.727	119.996	119.563			
153	-17.330	0.731	106.266	106.519		155	-17.330	0.729	114.708	114.252		157	-17.334	0.727	121.046	120.900			
154	-17.330	0.731	106.485	106.547		156	-17.330	0.729	114.905	114.496		158	-17.334	0.727	121.220	121.140			
155	-17.330	0.731	107.857	108.005		157	-17.330	0.729	116.245	115.958		159	-17.330	0.727	123.593	122.658			
156	-17.330	0.731	108.344	108.369		158	-17.330	0.729	116.707	116.395		160	-17.332	0.727	123.495	122.968			
157	-17.330	0.731	109.975	110.195		159	-17.330	0.729	118.302	118.104		161	-17.332	0.727	125.053	124.493			
158	-17.330	0.731	110.725	110.783		160	-17.330	0.729	119.022	118.765		162	-17.334	0.727	125.203	125.112			
159	-17.330	0.731	112.612	112.794		161	-17.330	0.729	120.868	120.707		163	-17.330	0.727	128.090	127.691			
160	-17.330	0.731	113.621	113.617		162	-17.330	0.729	121.843	121.477		164	-17.330	0.727	129.032	129.004			
161	-17.330	0.731	115.758	115.806		163	-17.330	0.729	123.935	124.230		165	-17.330	0.727	131.082	131.767			
162	-17.330	0.731	117.021	116.800		164	-17.330	0.729	125.160	125.859		166	-17.326	0.727	133.366	133.406			
163	-17.330	0.731	119.404	119.692		165	-17.324	0.729	129.126	128.787		167	-17.326	0.727	135.658	136.492			
164	-17.330	0.731	120.916	121.431		166	-17.326	0.729	130.056	130.683		168	-17.324	0.727	137.643	138.185			
165	-17.326	0.731	124.625	124.617		167	-17.324	0.729	133.181	133.762		169	-17.322	0.727	140.725	141.375			
166	-17.324	0.731	126.931	126.520		168	-17.324	0.729	134.899	135.780		170	-17.314	0.725	142.465	143.220			
167	-17.326	0.731	129.254	129.920		169	-17.286	0.721	139.523	138.950		171	-17.310	0.725	146.286	146.500			
168	-17.296	0.722	129.637	<b>129.100</b>		170	-17.292	0.723	141.823	141.100		172	-17.312	0.725	147.582	148.420			
169	-17.298	0.722	131.930	<b>132.490</b>		171	-17.292	0.723	144.704	144.370		173	-17.324	0.725	147.142	<b>147.060</b>			
170	-17.294	0.722	135.009	<b>134.400</b>		172	-17.306	0.723	142.822	<b>142.490</b>		174	-17.324	0.725	149.213	<b>148.890</b>			
171	-17.294	0.722	138.076	<b>137.580</b>		173	-17.308	0.723	145.350	<b>145.470</b>		175	-17.324	0.725	152.353	<b>152.180</b>			
172	-17.300	0.722	138.615	<b>139.530</b>		174	-17.310	0.723	147.022	<b>147.660</b>		176	-17.324	0.725	154.648	<b>154.420</b>			
173	-17.296	0.722	143.010	<b>142.840</b>		175	-17.308	0.723	150.888	<b>150.940</b>		177	-17.324	0.725	158.006	<b>158.140</b>			
174	-17.294	0.722	145.997	<b>145.040</b>		176	-17.304	0.723	154.475	<b>153.600</b>		178	-17.324	0.725	160.521	<b>160.540</b>			
175	-17.294	0.722	149.498	<b>148.650</b>		177	-17.304	0.723	157.997	<b>157.500</b>		179	-17.320	0.725	165.241	<b>164.390</b>			
176	-17.294	0.722	152.145	<b>151.410</b>		178	-17.304	0.723	160.673	<b>160.180</b>		180	-17.320	0.725	167.976	<b>167.030</b>			
177	-17.294	0.722	155.858	<b>155.540</b>		179	-17.304	0.723	164.407	<b>164.050</b>		181	-17.320	0.725	171.763	<b>170.960</b>			
178	-17.294	0.722	158.721	<b>158.130</b>		180	-17.304	0.723	167.297	<b>167.080</b>		182	-17.320	0.725	174.712	<b>173.850</b>			
179	-17.294	0.722	162.642	<b>162.370</b>		181	-17.304	0.723	171.237	<b>171.090</b>		183	-17.320	0.725	178.705	<b>177.990</b>			
180	-17.294	0.722	165.716	<b>165.420</b>		182	-17.307	0.723	173.470	<b>174.230</b>		184	-17.140	0.690	181.368	<b>181.220</b>			
181	-17.294	0.722	169.841	<b>169.710</b>		183	-17.130	0.690	178.705	<b>178.370</b>		185	-17.140	0.690	186.104	<b>186.610</b>			
182	-17.294	0.722	173.123	<b>172.920</b>		184	-17.130	0.690	181.007	<b>181.900</b>		186	-17.140	0.690	189.992	<b>190.200</b>			
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Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.						
197	-17.120	0.688	243.455	<b>242.500</b>		199	-17.130	0.687	250.662	<b>250.990</b>		201	-17.140	0.687	258.968	<b>258.230</b>			
198	-17.120	0.687	246.524	<b>246.610</b>		200	-17.134	0.687	254.505	<b>255.230</b>		202	-17.142	0.687	263.379	<b>262.440</b>			
199	-17.120	0.687	252.618	<b>252.170</b>		201	-17.136	0.687	259.929	<b>260.620</b>		203	-17.144	0.687	268.752	<b>268.260</b>			
200	-17.124	0.687	256.655	<b>256.410</b>		202	-17.134	0.687	265.759	<b>265.130</b>		204	-17.140	0.686	272.954	<b>272.870</b>			
201	-17.128	0.687	261.659	<b>262.140</b>		203	-17.136	0.687	271.320	<b>270.980</b>		205	-17.140	0.686	279.050	<b>278.850</b>			
202	-17.123	0.686	266.355	<b>266.640</b>		204	-17.130	0.686	276.271	<b>275.830</b>		206	-17.140	0.686	284.329	<b>283.660</b>			
203	-17.120	0.686	273.613	<b>272.690</b>		205	-17.130	0.686	282.553	<b>281.830</b>		207	-17.140	0.686	290.564	<b>289.720</b>			
204	-17.122	0.686	278.501	<b>277.580</b>		206	-17.131	0.686	287.702	<b>286.930</b>		208	-17.144	0.686	294.719	<b>294.600</b>			
205	-17.126	0.686	283.725	<b>283.890</b>		207	-17.136	0.686	292.549	<b>293.010</b>		209	-17.148	0.686	299.816	<b>300.790</b>			
206	-17.124	0.686	289.991	<b>289.080</b>		208	-17.134	0.686	298.775	<b>298.180</b>		210	-17.144	0.686	306.639	<b>305.770</b>			
207	-17.130	0.686	294.714	<b>295.490</b>		209	-17.134	0.686	305.324	<b>304.370</b>		211	-17.150	0.686	311.223	<b>311.980</b>			
208	-17.127	0.686	301.432	<b>300.720</b>		210	-17.140	0.686	309.157	<b>309.580</b>		212	-17.150	0.686	316.908	<b>317.090</b>			
209	-17.130	0.686	307.219	<b>307.200</b>		211	-17.138	0.686	316.467	<b>315.890</b>		213	-17.150	0.686	323.532	<b>323.450</b>			
210	-17.124	0.685	312.455	<b>312.500</b>		212	-17.136	0.685	320.371	<b>321.270</b>		214	-17.154	0.686	328.064	<b>328.820</b>			
211	-17.126	0.685	318.643	<b>319.010</b>		213	-17.136	0.685	327.137	<b>327.670</b>		215	-17.150	0.686	336.105	<b>335.500</b>			
212	-17.124	0.685	325.285	<b>324.430</b>		214	-17.136	0.685	333.095	<b>333.320</b>		216	-17.154	0.686	340.760	<b>340.900</b>			
213	-17.130	0.685	330.321	<b>331.220</b>		215	-17.138	0.685	339.344	<b>340.010</b>		217	-17.154	0.686	347.637	<b>347.580</b>			
214	-17.130	0.685	336.455	<b>336.810</b>		216	-17.140	0.685	344.785	<b>345.660</b>		218	-17.156	0.686	353.063	<b>353.180</b>			
215	-17.130	0.685	343.525	<b>343.690</b>		217	-17.140	0.685	351.800	<b>352.400</b>		219	-17.150	0.685	359.180	<b>359.960</b>			
216	-17.129	0.685	350.109	<b>349.410</b>		218	-17.140	0.685	358.013	<b>358.240</b>		220	-17.158	0.686	365.612	<b>365.640</b>			
217	-17.130	0.685	356.982	<b>356.280</b>		219	-17.140	0.685	365.152	<b>365.020</b>		221	-17.158	0.686	372.734	<b>372.550</b>			
218	-17.136	0.685	361.428	<b>362.050</b>		220	-17.140	0.685	371.492	<b>370.900</b>		222	-17.158	0.686	379.064	<b>378.390</b>			
219	-17.134	0.685	369.389	<b>369.140</b>		221	-17.140	0.685	378.753	<b>377.830</b>		223	-17.158	0.686	386.308	<b>385.680</b>			
220	-17.136	0.685	375.249	<b>375.110</b>		222	-17.142	0.685	384.560	<b>384.050</b>		224	-17.150	0.685	392.351	<b>391.820</b>			
221	-17.138	0.685	382.026	<b>382.320</b>		223	-17.142	0.685	391.939	<b>391.180</b>		225	-17.160	0.686	399.461	<b>399.060</b>			
222	-17.138	0.685	388.658	<b>388.550</b>		224	-17.146	0.685	397.202	<b>397.740</b>		226	-17.162	0.686	405.368	<b>405.270</b>			
223	-17.138	0.685	396.206	<b>396.040</b>		225	-17.146	0.685	404.695	<b>405.090</b>		227	-17.155	0.685	411.988	<b>412.620</b>			
224	-17.138	0.685	402.960	<b>402.450</b>		226	-17.154	0.686	411.956	<b>411.600</b>		228	-17.158	0.685	417.636	<b>418.490</b>			
225	-17.138	0.685	410.626	<b>410.250</b>		227	-17.148	0.685	418.342	<b>419.010</b>		229	-17.158	0.685	425.190	<b>426.170</b>			
226	-17.138	0.685	417.500	<b>416.800</b>		228	-17.145	0.685	426.169	<b>425.690</b>		230	-17.153	0.685	433.653	<b>432.660</b>			
227	-17.140	0.685	424.616	<b>424.520</b>		229	-17.148	0.685	432.887	<b>433.250</b>		231	-17.158	0.685	439.630	<b>440.570</b>			
228	-17.142	0.685	430.938	<b>431.210</b>		230	-17.148	0.685	439.827	<b>440.070</b>		229	-17.140	0.685	439.499	<b>439.070</b>			
230	-17.140	0.685	446.607	<b>445.900</b>		231	-17.150	0.685	446.989	<b>447.780</b>		232	-17.150	0.685	454.043	<b>454.650</b>			
231	-17.141	0.685	454.275	<b>453.880</b>		233	-17.145	0.685	468.256	<b>468.930</b>									
109	144	-17.464	0.803	132.982	<b>133.520</b>		110	146	-17.476	0.800	137.929	<b>138.880</b>		111	148	-17.488	0.800	145.161	<b>145.850</b>
145	-17.470	0.803	132.115	<b>132.790</b>		147	-17.480	0.800	137.552	<b>138.360</b>		149	-17.490	0.800	145.348	<b>145.200</b>			
146	-17.478	0.803	129.872	<b>130.710</b>		148	-17.486	0.800	135.801	<b>136.120</b>		150	-17.508	0.804	142.509	<b>143.380</b>			
147	-17.480	0.803	130.365	<b>130.210</b>		149	-17.490	0.800	135.760	<b>135.810</b>		151	-17.510	0.804	143.118	<b>142.940</b>			
148	-17.488	0.802	127.954	<b>128.440</b>		150	-17.500	0.800	133.305	<b>133.940</b>		152	-17.510	0.800	141.221	<b>141.590</b>			
149	-17.490	0.802	128.764	<b>128.170</b>		151	-17.500	0.800	134.634	<b>133.880</b>		153	-17.360	0.726	141.838	<b>141.730</b>			
150	-17.502	0.803	126.685	<b>126.600</b>		152	-17.516	0.802	132.079	<b>132.470</b>		154	-17.360	0.726	140.730	<b>140.660</b>			
151	-17.510	0.803	126.290	<b>126.570</b>		153	-17.520	0.802	132.733	<b>132.960</b>		155	-17.360	0.726	140.763	<b>140.970</b>			
152	-17.520	0.803	124.511	<b>125.510</b>		154	-17.350	0.725	132.385	<b>132.000</b>		156	-17.360	0.726	139.929	<b>140.210</b>			
153	-17.520	0.803	126.521	<b>126.030</b>		155	-17.350	0.725	132.640	<b>132.710</b>		157	-17.360	0.726	140.227	<b>140.660</b>			
154	-17.530	0.803	125.057	<b>125.440</b>		156	-17.350	0.725	132.022	<b>132.010</b>		158	-17.360	0.726	139.661	<b>140.020</b>			
155	-17.340	0.724	125.901	<b>126.210</b>		157	-17.350	0.728	134.470	133.880		159	-17.360	0.726	140.220	<b>140.580</b>			
156	-17.340	0.727	127.438	126.624		158	-17.350	0.728	134.195	133.648		160	-17.360	0.726	139.918	<b>140.130</b>			
157	-17.340	0.727	128.246	127.673		159	-17.350	0.728	135.048	134.835		161	-17.370	0.733	143.053	<b>142.773</b>			
158	-17.340	0.727	128.183	127.791		160	-17.350	0.728	135.036	134.682		162	-17.370	0.733	143.186	<b>142.885</b>			
159	-17.340	0.727	129.250	129.151		161	-17.350	0.728	136.144	135.952		163	-17.370	0.733	144.432	<b>144.612</b>			
160	-17.340	0.727	129.448	129.300		162	-17.350	0.728	136.391	136.083		164	-17.370	0.733	144.826	<b>145.395</b>			
161	-17.340	0.727	130.768	130.709		163	-17.350	0.728	137.750	138.285		165	-17.350	0.728	147.694	<b>147.386</b>			
162	-17.340	0.727	131.222	131.100		164	-17.350	0.728	138.253	139.197		166	-17.350	0.728	148.223	<b>148.407</b>			
163	-17.334	0.726	133.587	133.481		165	-17.340	0.727	141.749	141.666		167	-17.350	0.728	149.846	<b>150.521</b>			
164	-17.330	0.726	135.363	134.782		166	-17.340	0.727	142.482	142.539		168	-17.348	0.728	151.181	<b>151.721</b>			
165	-17.330	0.726	137.156	137.249		167	-17.340	0.727	144.312	145.092		169	-17.348	0.728	153.047	<b>153.886</b>			
166	-17.326	0.726	139.191	138.767		168	-17.340	0.727	145.291	146.251		170	-17.344	0.728	155.193	<b>155.333</b>			
167	-17.328	0.726	140.676	141.312		169	-17.332	0.727	149.590	149.024		171</td							

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
181	-17.330	0.726	173.835	<b>172.960</b>		183	-17.348	0.727	179.197	<b>179.980</b>		185	-17.170	0.689	189.588	<b>190.000</b>	
182	-17.330	0.726	176.601	<b>175.800</b>		184	-17.342	0.727	183.751	<b>182.910</b>		186	-17.170	0.689	192.839	<b>193.310</b>	
183	-17.330	0.726	180.409	<b>179.640</b>		185	-17.346	0.727	188.000	<b>188.020</b>		187	-17.168	0.689	197.694	<b>198.350</b>	
184	-17.150	0.690	183.087	<b>182.870</b>		186	-17.350	0.727	191.412	<b>191.330</b>		188	-17.166	0.689	201.715	<b>201.930</b>	
185	-17.150	0.690	187.618	<b>187.980</b>		187	-17.350	0.727	197.024	<b>196.630</b>		189	-17.170	0.690	206.464	<b>206.870</b>	
186	-17.150	0.690	191.304	<b>191.560</b>		188	-17.160	0.690	200.261	<b>200.220</b>		190	-17.170	0.690	210.089	<b>210.570</b>	
187	-17.150	0.690	196.000	<b>196.630</b>		189	-17.160	0.690	204.920	<b>205.350</b>		191	-17.170	0.690	214.710	<b>215.360</b>	
188	-17.150	0.690	199.854	<b>200.490</b>		190	-17.160	0.690	208.743	<b>208.990</b>		192	-17.170	0.690	218.501	<b>219.070</b>	
189	-17.150	0.690	204.712	<b>205.480</b>		191	-17.160	0.690	213.563	<b>213.900</b>		193	-17.170	0.690	223.281	<b>223.620</b>	
190	-17.150	0.690	208.732	<b>209.380</b>		192	-17.160	0.690	217.551	<b>217.580</b>		194	-17.170	0.690	227.236	<b>227.190</b>	
191	-17.150	0.690	213.750	<b>214.270</b>		193	-17.160	0.690	222.530	<b>222.500</b>		195	-17.170	0.690	232.174	<b>231.650</b>	
192	-17.150	0.690	217.933	<b>218.220</b>		194	-17.160	0.690	226.680	<b>225.850</b>		196	-17.174	0.690	235.061	<b>235.140</b>	
193	-17.150	0.690	223.108	<b>222.970</b>		195	-17.160	0.689	230.034	<b>230.600</b>		197	-17.178	0.690	238.919	<b>239.720</b>	
194	-17.150	0.690	227.451	<b>226.590</b>		196	-17.160	0.689	234.306	<b>234.070</b>		198	-17.166	0.688	243.203	<b>243.260</b>	
195	-17.150	0.689	230.952	<b>231.290</b>		197	-17.164	0.689	238.329	<b>238.930</b>		199	-17.170	0.688	247.138	<b>247.860</b>	
196	-17.150	0.689	235.416	<b>235.020</b>		198	-17.168	0.689	241.522	<b>242.440</b>		200	-17.170	0.688	251.492	<b>251.510</b>	
197	-17.150	0.689	240.860	<b>239.880</b>		199	-17.164	0.689	248.152	<b>247.340</b>		201	-17.170	0.688	256.813	<b>256.320</b>	
198	-17.150	0.688	243.539	<b>243.690</b>		200	-17.168	0.689	251.491	<b>251.000</b>		202	-17.171	0.688	261.007	<b>260.310</b>	
199	-17.154	0.688	247.863	<b>248.660</b>		201	-17.168	0.689	257.034	<b>256.110</b>		203	-17.174	0.688	265.532	<b>265.550</b>	
200	-17.152	0.688	253.209	<b>252.570</b>		202	-17.160	0.687	260.170	<b>260.090</b>		204	-17.174	0.688	270.184	<b>269.880</b>	
201	-17.150	0.687	257.477	<b>257.650</b>		203	-17.160	0.687	265.789	<b>265.570</b>		205	-17.174	0.688	275.794	<b>275.270</b>	
202	-17.150	0.687	262.319	<b>261.890</b>		204	-17.160	0.687	270.594	<b>269.910</b>		206	-17.176	0.688	279.960	<b>279.860</b>	
203	-17.150	0.687	268.126	<b>267.400</b>		205	-17.160	0.687	276.356	<b>275.610</b>		207	-17.176	0.688	285.709	<b>285.320</b>	
204	-17.151	0.687	272.803	<b>272.040</b>		206	-17.164	0.687	280.043	<b>280.170</b>		208	-17.172	0.687	289.703	<b>289.910</b>	
205	-17.154	0.687	277.808	<b>277.790</b>		207	-17.166	0.687	285.307	<b>285.910</b>		209	-17.174	0.687	294.917	<b>295.450</b>	
206	-17.154	0.687	282.939	<b>282.530</b>		208	-17.164	0.687	291.032	<b>290.460</b>		210	-17.174	0.687	299.967	<b>300.190</b>	
207	-17.154	0.687	289.022	<b>288.290</b>		209	-17.166	0.687	296.431	<b>296.350</b>		211	-17.177	0.687	304.990	<b>305.860</b>	
208	-17.160	0.687	292.393	<b>293.110</b>		210	-17.170	0.687	300.382	<b>301.000</b>		212	-17.173	0.687	311.470	<b>310.710</b>	
209	-17.158	0.687	299.243	<b>299.000</b>		211	-17.170	0.687	306.550	<b>306.930</b>		213	-17.178	0.687	315.977	<b>316.520</b>	
210	-17.152	0.686	304.157	<b>303.920</b>		212	-17.160	0.686	312.697	<b>311.760</b>		214	-17.180	0.687	320.652	<b>321.640</b>	
211	-17.156	0.686	309.194	<b>309.860</b>		213	-17.163	0.686	317.999	<b>317.890</b>		215	-17.180	0.687	326.905	<b>327.620</b>	
212	-17.158	0.686	314.059	<b>314.980</b>		214	-17.166	0.686	322.495	<b>322.970</b>		216	-17.180	0.687	332.366	<b>332.590</b>	
213	-17.158	0.686	320.502	<b>321.100</b>		215	-17.168	0.686	328.243	<b>329.190</b>		217	-17.180	0.687	338.751	<b>338.640</b>	
214	-17.159	0.686	325.821	<b>326.510</b>		216	-17.166	0.686	334.493	<b>334.450</b>		218	-17.180	0.687	344.346	<b>343.830</b>	
215	-17.160	0.686	332.070	<b>332.800</b>		217	-17.168	0.686	340.367	<b>340.840</b>		219	-17.180	0.687	350.862	<b>350.050</b>	
216	-17.160	0.686	337.843	<b>338.280</b>		218	-17.178	0.687	345.510	<b>346.000</b>		220	-17.184	0.687	355.266	<b>355.550</b>	
217	-17.160	0.686	344.544	<b>344.740</b>		219	-17.178	0.687	352.196	<b>352.450</b>		221	-17.184	0.687	361.905	<b>361.880</b>	
218	-17.160	0.686	350.449	<b>350.230</b>		220	-17.179	0.687	357.762	<b>357.820</b>		222	-17.188	0.687	366.428	<b>367.320</b>	
219	-17.178	0.688	356.961	<b>356.670</b>		221	-17.178	0.687	364.905	<b>364.580</b>		223	-17.188	0.687	373.190	<b>373.740</b>	
220	-17.178	0.688	363.065	<b>362.280</b>		222	-17.178	0.687	370.932	<b>370.150</b>		224	-17.185	0.687	380.176	<b>379.980</b>	
221	-17.179	0.688	369.757	<b>368.910</b>		223	-17.178	0.687	377.869	<b>376.900</b>		225	-17.188	0.687	386.057	<b>386.180</b>	
222	-17.164	0.686	375.104	<b>374.900</b>		224	-17.172	0.686	383.074	<b>382.570</b>		226	-17.180	0.686	391.877	<b>391.170</b>	
223	-17.164	0.686	382.176	<b>381.760</b>		225	-17.175	0.686	389.093	<b>389.520</b>		227	-17.182	0.686	398.174	<b>397.220</b>	
224	-17.168	0.686	387.129	<b>387.790</b>		226	-17.177	0.686	394.658	<b>395.380</b>		228	-17.186	0.686	403.012	<b>402.250</b>	
225	-17.168	0.686	394.319	<b>394.700</b>		227	-17.175	0.686	402.472	<b>401.630</b>							
226	-17.165	0.686	401.729	<b>400.850</b>		228	-17.170	0.685	407.396	<b>406.710</b>							
227	-17.168	0.686	408.034	<b>407.950</b>		229	-17.170	0.685	414.616	<b>414.170</b>							
228	-17.160	0.685	414.070	<b>413.330</b>													
229	-17.160	0.685	421.459	<b>420.770</b>													
230	-17.160	0.685	428.071	<b>427.280</b>													
112	150	-17.504	0.802	151.284	<b>151.470</b>	113	153	-17.380	0.728	159.101	<b>158.980</b>	114	155	-17.390	0.730	165.898	<b>165.420</b>
151	-17.510	0.802	150.513	<b>151.040</b>	154	-17.380	0.728	157.554	<b>157.510</b>	156	-17.390	0.730	164.436	<b>163.840</b>			
152	-17.370	0.726	149.764	<b>149.340</b>	155	-17.380	0.728	157.145	<b>157.450</b>	157	-17.390	0.730	164.103	<b>163.900</b>			
153	-17.370	0.726	149.283	<b>149.450</b>	156	-17.380	0.728	155.878	<b>156.200</b>	158	-17.390	0.730	162.918	<b>162.540</b>			
154	-17.370	0.726	147.934	<b>148.020</b>	157	-17.380	0.728	155.740	<b>156.250</b>	159	-17.390	0.730	162.855	<b>162.760</b>			
155	-17.370	0.726	147.726	<b>148.290</b>	158	-17.380	0.728	154.745	<b>155.230</b>	160	-17.390	0.730	161.943	<b>161.610</b>			
156	-17.370	0.726	146.652	<b>147.160</b>	159	-17.380	0.728	154.873	<b>155.440</b>	161	-17.390	0.730	162.145	<b>162.050</b>			
157	-17.370	0.726	146.710	<b>147.580</b>	160	-17.380	0.728	154.149	<b>154.590</b>	162	-17.390	0.730	161.501	<b>161.200</b>			
158	-17.370	0.726	145.907	<b>146.580</b>	161	-17.380	0.728	154.538	<b>155.070</b>	163	-17.390	0.730	161.963	<b>161.980</b>			
159	-17.370	0.726															

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)					
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.		
174	-17.348	0.728	166.621	166.450		177	-17.358	0.729	177.391	178.315	<b>179</b>	-17.388	0.729	177.925	<b>178.810</b>
175	-17.350	0.728	168.394	169.370		<b>178</b>	-17.380	0.729	172.543	<b>173.500</b>	<b>180</b>	-17.386	0.729	180.056	<b>180.410</b>
176	-17.348	0.728	170.485	170.930		<b>179</b>	-17.379	0.729	175.418	<b>176.140</b>	<b>181</b>	-17.382	0.729	183.824	<b>183.340</b>
<b>177</b>	-17.362	0.728	169.013	<b>168.120</b>		<b>180</b>	-17.378	0.729	177.472	<b>178.080</b>	<b>182</b>	-17.380	0.729	186.192	<b>185.260</b>
<b>178</b>	-17.364	0.728	170.164	<b>169.550</b>		<b>181</b>	-17.378	0.729	180.278	<b>181.040</b>	<b>183</b>	-17.384	0.730	189.088	<b>188.570</b>
<b>179</b>	-17.368	0.728	171.781	<b>172.480</b>		<b>182</b>	-17.372	0.729	184.035	<b>183.280</b>	<b>184</b>	-17.382	0.730	191.713	<b>190.880</b>
<b>180</b>	-17.368	0.728	173.732	<b>174.370</b>		<b>183</b>	-17.372	0.729	187.065	<b>186.570</b>	<b>185</b>	-17.386	0.730	195.163	<b>195.340</b>
<b>181</b>	-17.364	0.728	177.900	<b>177.570</b>		<b>184</b>	-17.370	0.729	189.872	<b>189.180</b>	<b>186</b>	-17.390	0.730	197.787	<b>197.980</b>
<b>182</b>	-17.365	0.728	179.783	<b>179.800</b>		<b>185</b>	-17.372	0.729	194.111	<b>193.640</b>	<b>187</b>	-17.390	0.730	202.624	<b>202.890</b>
<b>183</b>	-17.362	0.728	183.882	<b>183.370</b>		<b>186</b>	-17.380	0.729	195.731	<b>196.600</b>	<b>188</b>	-17.390	0.729	205.205	<b>205.700</b>
<b>184</b>	-17.360	0.728	186.872	<b>185.990</b>		<b>187</b>	-17.380	0.729	200.753	<b>201.460</b>	<b>189</b>	-17.390	0.729	210.202	<b>210.640</b>
<b>185</b>	-17.362	0.728	191.301	<b>190.760</b>		<b>188</b>	-17.380	0.729	204.956	<b>204.640</b>	<b>190</b>	-17.390	0.729	214.389	<b>213.630</b>
<b>186</b>	-17.370	0.728	193.114	<b>193.740</b>		<b>189</b>	-17.190	0.690	209.884	<b>209.520</b>	<b>191</b>	-17.200	0.690	218.821	<b>218.590</b>
<b>187</b>	-17.370	0.728	198.321	<b>198.920</b>		<b>190</b>	-17.190	0.690	213.115	<b>212.870</b>	<b>192</b>	-17.200	0.690	222.026	<b>221.700</b>
<b>188</b>	-17.370	0.728	202.708	<b>202.110</b>		<b>191</b>	-17.190	0.690	217.338	<b>217.710</b>	<b>193</b>	-17.202	0.690	225.604	<b>226.590</b>
<b>189</b>	-17.180	0.690	207.510	<b>207.280</b>		<b>192</b>	-17.190	0.690	220.738	<b>221.150</b>	<b>194</b>	-17.200	0.690	229.591	<b>229.520</b>
<b>190</b>	-17.180	0.690	210.940	<b>210.660</b>		<b>193</b>	-17.190	0.690	225.125	<b>225.730</b>	<b>195</b>	-17.200	0.690	233.944	<b>234.130</b>
<b>191</b>	-17.180	0.690	215.362	<b>215.660</b>		<b>194</b>	-17.190	0.690	228.691	<b>229.090</b>	<b>196</b>	-17.200	0.690	237.483	<b>237.260</b>
<b>192</b>	-17.180	0.690	218.959	<b>219.090</b>		<b>195</b>	-17.190	0.690	233.239	<b>233.670</b>	<b>197</b>	-17.212	0.690	238.264	<b>238.620</b>
<b>193</b>	-17.180	0.690	223.544	<b>223.980</b>		<b>196</b>	-17.190	0.690	236.969	<b>237.070</b>	<b>198</b>	-17.205	0.689	242.430	<b>241.730</b>
<b>194</b>	-17.180	0.690	227.305	<b>227.470</b>		<b>197</b>	-17.198	0.690	239.195	<b>238.380</b>	<b>199</b>	-17.200	0.689	248.624	<b>248.550</b>
<b>195</b>	-17.190	0.690	228.978	<b>229.300</b>		<b>198</b>	-17.190	0.689	243.812	<b>244.120</b>	<b>200</b>	-17.200	0.689	252.449	<b>251.690</b>
<b>196</b>	-17.176	0.689	235.478	<b>234.790</b>		<b>199</b>	-17.190	0.689	248.637	<b>248.460</b>	<b>201</b>	-17.201	0.689	256.922	<b>256.220</b>
<b>197</b>	-17.180	0.689	239.110	<b>239.340</b>		<b>200</b>	-17.190	0.689	252.650	<b>251.860</b>	<b>202</b>	-17.200	0.688	259.368	<b>259.620</b>
<b>198</b>	-17.180	0.689	243.157	<b>242.610</b>		<b>201</b>	-17.194	0.689	256.372	<b>256.410</b>	<b>203</b>	-17.202	0.688	263.637	<b>264.620</b>
<b>199</b>	-17.180	0.689	248.175	<b>247.230</b>		<b>202</b>	-17.190	0.688	259.899	<b>260.080</b>	<b>204</b>	-17.200	0.688	268.370	<b>268.450</b>
<b>200</b>	-17.180	0.688	250.508	<b>250.620</b>		<b>203</b>	-17.190	0.688	264.989	<b>265.080</b>	<b>205</b>	-17.197	0.688	274.379	<b>273.630</b>
<b>201</b>	-17.180	0.688	255.639	<b>255.440</b>		<b>204</b>	-17.192	0.688	268.640	<b>269.150</b>	<b>206</b>	-17.200	0.688	277.674	<b>277.660</b>
<b>202</b>	-17.180	0.688	259.959	<b>259.130</b>		<b>205</b>	-17.190	0.688	274.511	<b>274.340</b>	<b>207</b>	-17.200	0.688	282.872	<b>282.930</b>
<b>203</b>	-17.180	0.688	265.239	<b>264.400</b>		<b>206</b>	-17.194	0.688	277.671	<b>278.610</b>	<b>208</b>	-17.200	0.688	287.273	<b>287.010</b>
<b>204</b>	-17.184	0.688	268.447	<b>268.480</b>		<b>207</b>	-17.192	0.688	283.690	<b>283.870</b>	<b>209</b>	-17.203	0.688	291.648	<b>292.350</b>
<b>205</b>	-17.186	0.688	273.235	<b>273.940</b>		<b>208</b>	-17.190	0.688	288.913	<b>288.210</b>	<b>210</b>	-17.204	0.688	295.869	<b>296.550</b>
<b>206</b>	-17.184	0.688	278.486	<b>278.180</b>		<b>209</b>	-17.190	0.688	294.440	<b>293.480</b>	<b>211</b>	-17.204	0.688	301.351	<b>301.930</b>
<b>207</b>	-17.186	0.688	283.414	<b>283.710</b>		<b>210</b>	-17.195	0.688	297.555	<b>298.010</b>	<b>212</b>	-17.206	0.688	305.390	<b>306.150</b>
<b>208</b>	-17.188	0.688	287.537	<b>288.020</b>		<b>211</b>	-17.196	0.688	302.894	<b>303.370</b>	<b>213</b>	-17.204	0.688	311.663	<b>311.670</b>
<b>209</b>	-17.190	0.688	292.599	<b>293.560</b>		<b>212</b>	-17.194	0.688	308.411	<b>307.840</b>	<b>214</b>	-17.206	0.688	315.841	<b>316.050</b>
<b>210</b>	-17.188	0.688	298.146	<b>298.020</b>		<b>213</b>	-17.196	0.688	313.563	<b>313.440</b>	<b>215</b>	-17.206	0.688	321.599	<b>321.720</b>
<b>211</b>	-17.190	0.688	303.344	<b>303.680</b>		<b>214</b>	-17.200	0.688	317.264	<b>318.090</b>	<b>216</b>	-17.208	0.688	325.911	<b>326.120</b>
<b>212</b>	-17.190	0.688	308.390	<b>308.290</b>		<b>215</b>	-17.200	0.688	323.198	<b>323.780</b>	<b>217</b>	-17.210	0.688	331.142	<b>331.900</b>
<b>213</b>	-17.190	0.688	314.369	<b>314.210</b>		<b>216</b>	-17.200	0.688	328.344	<b>328.490</b>	<b>218</b>	-17.210	0.688	336.250	<b>336.510</b>
<b>214</b>	-17.186	0.687	318.442	<b>318.860</b>		<b>217</b>	-17.198	0.688	335.072	<b>334.290</b>	<b>219</b>	-17.210	0.688	342.275	<b>342.490</b>
<b>215</b>	-17.186	0.687	324.520	<b>324.790</b>		<b>218</b>	-17.200	0.688	339.696	<b>339.170</b>	<b>220</b>	-17.210	0.688	347.520	<b>347.110</b>
<b>216</b>	-17.190	0.687	328.495	<b>329.440</b>		<b>219</b>	-17.200	0.688	345.897	<b>345.160</b>	<b>221</b>	-17.210	0.688	353.677	<b>353.000</b>
<b>217</b>	-17.190	0.687	334.702	<b>335.530</b>		<b>220</b>	-17.206	0.688	349.320	<b>350.180</b>	<b>222</b>	-17.208	0.687	357.086	<b>357.610</b>
<b>218</b>	-17.188	0.687	340.783	<b>340.390</b>		<b>221</b>	-17.202	0.688	356.983	<b>356.230</b>	<b>223</b>	-17.206	0.687	364.007	<b>363.260</b>
<b>219</b>	-17.190	0.687	346.461	<b>346.760</b>		<b>222</b>	-17.200	0.687	360.505	<b>361.260</b>	<b>224</b>	-17.212	0.687	367.454	<b>367.680</b>
<b>220</b>	-17.190	0.687	352.015	<b>351.840</b>		<b>223</b>	-17.200	0.687	366.925	<b>367.020</b>	<b>225</b>	-17.212	0.687	373.825	<b>373.460</b>
<b>221</b>	-17.190	0.687	358.483	<b>358.140</b>		<b>224</b>	-17.200	0.687	372.568	<b>371.850</b>					
<b>222</b>	-17.190	0.687	364.169	<b>363.330</b>		<b>225</b>	-17.202	0.687	378.438	<b>377.730</b>					
<b>223</b>	-17.190	0.687	370.764	<b>370.010</b>		<b>226</b>	-17.206	0.687	382.853	<b>382.290</b>					
<b>224</b>	-17.198	0.687	373.893	<b>374.860</b>											
<b>225</b>	-17.190	0.686	380.421	<b>381.020</b>											
<b>226</b>	-17.190	0.686	386.323	<b>385.570</b>											
<b>227</b>	-17.192	0.686	392.446	<b>391.610</b>											
<b>115 157</b>	-17.400	0.731	173.271	<b>173.210</b>		<b>116 159</b>	-17.410	0.731	179.183	<b>179.870</b>	<b>117 161</b>	-17.420	0.733	187.190	<b>187.540</b>
<b>158</b>	-17.400	0.731	171.869	<b>171.850</b>		<b>160</b>	-17.410	0.731	177.820	<b>178.330</b>	<b>162</b>	-17.420	0.733	185.910	<b>185.980</b>
<b>159</b>	-17.400	0.731	171.586	<b>171.780</b>		<b>161</b>	-17.410	0.731	177.568	<b>178.420</b>	<b>163</b>	-17.420	0.733	185.731	<b>185.900</b>
<b>160</b>	-17.400	0.731	170.460	<b>170.590</b> </											

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
177	-17.370	0.730	187.496	186.600		179	-17.410	0.733	188.281	<b>188.390</b>		181	-17.410	0.733	198.606	<b>198.170</b>	
178	-17.396	0.730	181.029	<b>181.570</b>		180	-17.403	0.732	190.478	<b>189.720</b>		182	-17.414	0.734	199.786	<b>199.780</b>	
179	-17.392	0.730	184.376	<b>183.890</b>		181	-17.404	0.732	192.423	<b>192.350</b>		183	-17.410	0.734	203.293	<b>202.450</b>	
180	-17.390	0.730	186.326	<b>185.500</b>		182	-17.404	0.732	193.855	<b>193.970</b>		184	-17.410	0.734	204.802	<b>204.450</b>	
181	-17.390	0.730	188.729	<b>188.150</b>		183	-17.400	0.732	197.517	<b>196.940</b>		185	-17.410	0.734	208.912	<b>208.230</b>	
182	-17.394	0.731	190.332	<b>190.090</b>		184	-17.400	0.732	199.181	<b>198.940</b>		186	-17.418	0.734	209.792	<b>210.540</b>	
183	-17.394	0.731	192.985	<b>193.060</b>		185	-17.400	0.732	203.449	<b>203.050</b>		187	-17.416	0.734	214.708	<b>214.770</b>	
184	-17.390	0.731	196.025	<b>195.390</b>		186	-17.406	0.732	205.096	<b>205.380</b>		188	-17.420	0.734	216.995	<b>217.270</b>	
185	-17.390	0.731	200.482	<b>199.530</b>		187	-17.408	0.732	208.956	<b>209.940</b>		189	-17.420	0.734	221.505	<b>221.540</b>	
186	-17.398	0.731	201.718	<b>202.160</b>		188	-17.410	0.732	212.006	<b>212.430</b>		190	-17.232	0.690	223.483	<b>224.210</b>	
187	-17.400	0.731	205.765	<b>206.710</b>		189	-17.410	0.732	216.670	<b>217.020</b>		191	-17.226	0.690	228.761	<b>228.030</b>	
188	-17.400	0.731	209.604	209.550		190	-17.220	0.690	220.290	<b>219.680</b>		192	-17.230	0.690	230.149	<b>230.330</b>	
189	-17.400	0.731	214.450	<b>214.120</b>		191	-17.222	0.690	223.306	<b>224.150</b>		193	-17.230	0.690	233.750	<b>234.410</b>	
190	-17.210	0.690	217.790	<b>217.120</b>		192	-17.223	0.690	225.812	<b>226.580</b>		194	-17.230	0.690	236.543	<b>237.230</b>	
191	-17.210	0.690	221.618	<b>221.620</b>		193	-17.220	0.690	230.535	<b>230.770</b>		195	-17.230	0.690	240.310	<b>241.160</b>	
192	-17.212	0.690	224.013	<b>224.660</b>		194	-17.220	0.690	233.521	<b>233.560</b>		196	-17.230	0.690	243.272	<b>244.010</b>	
193	-17.210	0.690	228.621	<b>228.960</b>		195	-17.220	0.690	237.484	<b>237.970</b>		197	-17.238	0.690	244.690	<b>244.330</b>	
194	-17.210	0.690	231.800	<b>232.050</b>		196	-17.220	0.690	240.639	<b>240.770</b>		198	-17.240	0.690	247.181	<b>247.170</b>	
195	-17.210	0.690	235.957	<b>236.350</b>		197	-17.220	0.690	244.765	<b>245.030</b>		199	-17.234	0.689	251.549	<b>251.130</b>	
196	-17.210	0.690	239.303	<b>239.480</b>		198	-17.216	0.689	247.722	<b>247.910</b>		200	-17.230	0.689	256.071	<b>256.560</b>	
197	-17.218	0.690	241.124	<b>240.650</b>		199	-17.229	0.689	247.881	<b>248.630</b>		201	-17.230	0.689	260.288	<b>260.670</b>	
198	-17.216	0.689	243.589	<b>243.780</b>		200	-17.220	0.689	254.163	<b>254.060</b>		202	-17.228	0.689	264.344	<b>263.770</b>	
199	-17.210	0.689	249.908	<b>250.390</b>		201	-17.222	0.689	257.937	<b>258.350</b>		203	-17.230	0.689	268.079	<b>268.240</b>	
200	-17.210	0.689	253.543	<b>253.550</b>		202	-17.220	0.689	262.178	<b>261.460</b>		204	-17.230	0.689	271.657	<b>271.800</b>	
201	-17.210	0.689	258.140	<b>257.870</b>		203	-17.220	0.689	266.740	<b>266.180</b>		205	-17.230	0.689	276.183	<b>276.520</b>	
202	-17.212	0.689	261.299	<b>261.260</b>		204	-17.224	0.689	269.225	<b>269.770</b>		206	-17.225	0.689	281.532	<b>281.570</b>	
203	-17.210	0.689	266.683	<b>266.010</b>		205	-17.220	0.689	275.220	<b>274.750</b>		207	-17.230	0.689	284.595	<b>285.030</b>	
204	-17.214	0.689	269.357	<b>269.830</b>		206	-17.220	0.689	279.140	<b>278.490</b>		208	-17.229	0.689	288.809	<b>288.890</b>	
205	-17.210	0.689	275.534	<b>274.760</b>		207	-17.224	0.689	282.712	<b>283.470</b>		209	-17.230	0.689	293.310	<b>293.700</b>	
206	-17.210	0.689	279.638	<b>278.800</b>		208	-17.220	0.689	288.077	<b>287.340</b>		210	-17.230	0.689	297.351	<b>297.620</b>	
207	-17.210	0.689	284.688	<b>283.760</b>		209	-17.222	0.689	292.439	<b>292.450</b>		211	-17.232	0.689	301.668	<b>302.490</b>	
208	-17.215	0.689	287.328	<b>287.890</b>		210	-17.225	0.689	295.683	<b>296.370</b>		212	-17.232	0.689	305.856	<b>306.280</b>	
209	-17.216	0.689	292.195	<b>293.020</b>		211	-17.224	0.689	301.162	<b>301.480</b>		213	-17.230	0.689	311.632	<b>311.290</b>	
210	-17.216	0.689	296.594	<b>297.190</b>		212	-17.226	0.689	304.875	<b>305.440</b>		214	-17.236	0.689	313.984	<b>314.870</b>	
211	-17.216	0.689	301.927	<b>302.300</b>		213	-17.224	0.689	310.828	<b>310.690</b>		215	-17.236	0.689	319.239	<b>320.170</b>	
212	-17.216	0.689	306.474	<b>306.430</b>		214	-17.228	0.689	314.022	<b>314.550</b>		216	-17.236	0.689	323.717	<b>324.220</b>	
213	-17.216	0.689	311.950	<b>311.670</b>		215	-17.226	0.689	320.119	<b>319.880</b>		217	-17.236	0.689	329.112	<b>329.380</b>	
214	-17.220	0.689	315.325	<b>315.880</b>		216	-17.230	0.689	323.448	<b>323.930</b>		218	-17.234	0.689	334.403	<b>333.560</b>	
215	-17.218	0.689	321.598	<b>321.250</b>		217	-17.230	0.689	329.019	<b>329.410</b>		219	-17.236	0.689	339.267	<b>338.830</b>	
216	-17.216	0.688	324.747	<b>325.630</b>		218	-17.230	0.689	333.815	<b>333.610</b>		220	-17.237	0.689	343.693	<b>342.990</b>	
217	-17.216	0.688	330.462	<b>331.130</b>		219	-17.230	0.689	339.524	<b>339.210</b>		221	-17.238	0.689	349.023	<b>348.300</b>	
218	-17.218	0.688	334.730	<b>335.600</b>		220	-17.226	0.688	343.348	<b>343.410</b>		222	-17.240	0.689	353.245	<b>352.710</b>	
219	-17.215	0.688	341.579	<b>341.210</b>		221	-17.226	0.688	349.156	<b>349.040</b>							
220	-17.220	0.688	344.978	<b>345.740</b>		222	-17.228	0.688	353.515	<b>353.380</b>							
221	-17.220	0.688	350.957	<b>351.380</b>		223	-17.230	0.688	358.776	<b>358.840</b>							
222	-17.220	0.688	356.163	<b>355.880</b>													
223	-17.221	0.688	361.935	<b>361.360</b>													
224	-17.223	0.688	366.596	<b>365.910</b>													
118	163	-17.440	0.739	193.817	194.000	119	165	-17.300	0.665	201.515	<b>201.990</b>	120	167	-17.200	0.610	208.859	<b>209.110</b>
164	-17.440	0.739	192.708	<b>192.310</b>		166	-17.300	0.667	200.008	<b>200.970</b>		168	-17.200	0.615	207.863	<b>207.940</b>	
165	-17.440	0.739	192.694	<b>192.730</b>		167	-17.300	0.671	200.824	<b>201.120</b>		169	-17.200	0.620	208.125	<b>208.310</b>	
166	-17.440	0.739	191.858	<b>191.670</b>		168	-17.300	0.673	199.766	<b>200.010</b>		170	-17.200	0.625	207.766	<b>207.490</b>	
167	-17.440	0.739	192.110	<b>192.140</b>		169	-17.300	0.676	200.494	<b>200.700</b>		171	-17.200	0.630	208.675	<b>208.320</b>	
168	-17.440	0.739	191.543	<b>191.320</b>		170	-17.300	0.679	200.535	<b>200.100</b>		172	-17.200	0.633	207.702	<b>207.690</b>	
169	-17.440	0.739	192.056	<b>192.030</b>		171	-17.300	0.680	200.396	<b>200.680</b>		173	-17.200	0.637	208.563	<b>208.520</b>	
170	-17.440	0.739	191.753	<b>191.490</b>		172	-17.300	0.682	200.190	<b>200.430</b>		174	-17.200	0.640	208.091	<b>208.150</b>	
171	-17.440	0.739	192.524	<b>192.450</b>		173	-17.300	0.685	201.874	<b>201.280</b>		175	-17.200	0.644	209.509	<b>209.340</b>	
172	-17.440	0.739	192.481	<b>192.240</b>		174	-17.300	0.686	201.347	<b>201.290</b>		176	-17.200	0.647	209.553	<b>209.530</b>	
173	-17.440	0.739	193.504	<b>193.460</b>		175	-17.300	0.688	202.710	<b>202.460</b>		177	-17.200	0.651	211.546</td		

Table A continued from previous page

Z	N	Mass excess (MeV)			Mass excess (MeV)			Mass excess (MeV)									
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
189	-17.244	0.690	223.929	<b>224.890</b>		191	-17.241	0.688	235.320	<b>234.630</b>		193	-17.214	0.679	244.357	<b>243.430</b>	
190	-17.244	0.690	226.176	<b>226.950</b>		192	-17.236	0.686	236.472	<b>236.950</b>		194	-17.218	0.679	245.014	<b>245.600</b>	
191	-17.240	0.690	230.643	<b>230.510</b>		193	-17.234	0.686	240.192	<b>240.350</b>		195	-17.196	0.674	248.186	<b>249.120</b>	
192	-17.240	0.690	233.070	<b>232.850</b>		194	-17.236	0.687	243.212	<b>242.810</b>		196	-17.194	0.674	250.756	<b>251.400</b>	
193	-17.240	0.690	236.476	<b>236.540</b>		195	-17.216	0.682	245.878	<b>246.380</b>		197	-17.194	0.675	255.043	<b>255.160</b>	
194	-17.240	0.690	239.077	<b>239.040</b>		196	-17.206	0.680	248.564	<b>249.010</b>		198	-17.194	0.675	257.177	<b>257.600</b>	
195	-17.224	0.687	243.367	<b>242.920</b>		197	-17.208	0.681	252.629	<b>252.780</b>		199	-17.206	0.678	260.807	<b>261.510</b>	
196	-17.226	0.687	245.427	<b>245.520</b>		198	-17.218	0.683	254.901	<b>255.500</b>		200	-17.204	0.678	263.827	<b>264.080</b>	
197	-17.236	0.687	245.929	<b>245.940</b>		199	-17.217	0.683	258.724	<b>259.440</b>		201	-17.206	0.679	268.046	<b>267.940</b>	
198	-17.244	0.689	249.303	<b>248.510</b>		200	-17.214	0.683	262.391	<b>262.330</b>		202	-17.206	0.679	270.619	<b>270.690</b>	
199	-17.246	0.689	252.533	<b>252.440</b>		201	-17.214	0.683	266.058	<b>266.130</b>		203	-17.206	0.679	274.139	<b>274.860</b>	
200	-17.240	0.689	257.505	<b>257.790</b>		202	-17.211	0.683	269.895	<b>269.150</b>		204	-17.200	0.679	278.812	<b>277.900</b>	
201	-17.236	0.689	262.808	<b>261.900</b>		203	-17.210	0.683	274.043	<b>273.260</b>		205	-17.204	0.680	282.855	<b>282.000</b>	
202	-17.242	0.689	264.125	<b>264.700</b>		204	-17.220	0.684	275.533	<b>276.430</b>		206	-17.206	0.680	285.126	<b>285.140</b>	
203	-17.240	0.689	268.950	<b>269.180</b>		205	-17.216	0.684	280.833	<b>280.710</b>		207	-17.210	0.681	289.412	<b>289.400</b>	
204	-17.240	0.689	272.344	<b>272.440</b>		206	-17.215	0.684	284.379	<b>284.010</b>		208	-17.210	0.681	292.517	<b>292.630</b>	
205	-17.235	0.689	278.298	<b>278.500</b>		207	-17.220	0.685	288.704	<b>288.370</b>		209	-17.210	0.681	296.552	<b>297.120</b>	
206	-17.236	0.689	281.530	<b>281.810</b>		208	-17.220	0.685	292.111	<b>291.860</b>		210	-17.210	0.681	299.808	<b>300.350</b>	
207	-17.232	0.689	287.327	<b>286.440</b>		209	-17.220	0.685	296.452	<b>296.570</b>		211	-17.212	0.681	303.329	<b>303.080</b>	
208	-17.234	0.689	290.389	<b>289.940</b>		210	-17.222	0.685	299.353	<b>299.430</b>		212	-17.220	0.682	305.998	<b>306.470</b>	
209	-17.240	0.689	293.076	<b>293.790</b>		211	-17.219	0.685	304.830	<b>304.050</b>		213	-17.214	0.681	310.389	<b>311.260</b>	
210	-17.239	0.689	297.264	<b>297.550</b>		212	-17.244	0.688	306.215	<b>306.200</b>		214	-17.220	0.682	313.930	<b>314.850</b>	
211	-17.240	0.689	301.727	<b>302.340</b>		213	-17.220	0.684	310.829	<b>311.020</b>		215	-17.214	0.682	320.436	<b>319.850</b>	
212	-17.240	0.689	305.738	<b>305.960</b>		214	-17.220	0.684	314.649	<b>314.910</b>		216	-17.219	0.683	324.561	<b>323.610</b>	
213	-17.242	0.689	310.013	<b>309.870</b>		215	-17.220	0.684	319.387	<b>319.910</b>		217	-17.218	0.683	329.573	<b>328.720</b>	
214	-17.246	0.689	312.843	<b>313.740</b>		216	-17.220	0.684	323.353	<b>323.940</b>		218	-17.218	0.683	333.482	<b>332.580</b>	
215	-17.244	0.689	318.583	<b>319.050</b>		217	-17.216	0.684	329.576	<b>329.090</b>		219	-17.220	0.683	337.621	<b>337.840</b>	
216	-17.244	0.689	322.886	<b>323.130</b>		218	-17.216	0.684	333.688	<b>333.240</b>							
217	-17.244	0.689	328.105	<b>328.650</b>		219	-17.218	0.684	338.033	<b>338.270</b>							
218	-17.246	0.689	331.879	<b>332.550</b>		220	-17.220	0.684	341.608	<b>342.130</b>							
219	-17.246	0.689	337.236	<b>337.710</b>													
220	-17.248	0.689	341.148	<b>341.580</b>													
221	-17.250	0.689	345.962	<b>346.910</b>													
121	169	-17.200	0.611	217.709	<b>217.710</b>	122	172	-17.200	0.616	224.401	<b>224.430</b>	123	174	-17.200	0.618	234.137	<b>234.160</b>
170	-17.200	0.615	216.284	<b>216.780</b>		173	-17.200	0.620	224.284	<b>225.230</b>		175	-17.200	0.624	235.387	<b>234.840</b>	
171	-17.200	0.622	217.800	<b>217.130</b>		174	-17.200	0.625	224.137	<b>225.050</b>		176	-17.200	0.628	234.807	<b>234.560</b>	
172	-17.200	0.625	216.386	<b>216.580</b>		175	-17.200	0.630	225.246	<b>225.870</b>		177	-17.200	0.631	234.757	<b>235.400</b>	
173	-17.200	0.630	217.394	<b>217.520</b>		176	-17.200	0.635	225.773	<b>225.730</b>		178	-17.198	0.634	234.627	<b>235.600</b>	
174	-17.200	0.635	217.809	<b>217.150</b>		177	-17.200	0.638	226.153	<b>226.390</b>		179	-17.198	0.638	235.772	<b>236.670</b>	
175	-17.200	0.638	218.121	<b>218.000</b>		178	-17.200	0.642	226.588	<b>226.670</b>		180	-17.198	0.642	236.301	<b>237.010</b>	
176	-17.200	0.642	218.461	<b>218.180</b>		179	-17.200	0.645	227.477	<b>228.020</b>		181	-17.192	0.643	237.522	<b>238.450</b>	
177	-17.200	0.645	219.281	<b>219.400</b>		180	-17.200	0.649	228.489	<b>228.400</b>		182	-17.200	0.651	239.385	<b>239.130</b>	
178	-17.200	0.648	219.427	<b>219.540</b>		181	-17.200	0.653	230.723	<b>230.100</b>		183	-17.200	0.655	241.769	<b>240.910</b>	
179	-17.200	0.652	221.539	<b>220.920</b>		182	-17.200	0.655	230.660	<b>230.790</b>		184	-17.214	0.661	241.023	<b>241.950</b>	
180	-17.200	0.654	221.391	<b>221.580</b>		183	-17.200	0.659	233.463	<b>232.860</b>		185	-17.200	0.660	245.426	<b>244.650</b>	
181	-17.200	0.657	223.211	<b>223.320</b>		184	-17.200	0.662	234.772	<b>233.920</b>		186	-17.207	0.662	245.295	<b>246.030</b>	
182	-17.200	0.659	223.495	<b>224.350</b>		185	-17.200	0.664	237.864	<b>236.940</b>		187	-17.210	0.664	247.485	<b>247.330</b>	
183	-17.204	0.664	226.424	<b>226.430</b>		186	-17.200	0.665	239.287	<b>238.330</b>		188	-17.210	0.664	247.923	<b>248.320</b>	
184	-17.200	0.666	228.422	<b>227.790</b>		187	-17.210	0.667	239.657	<b>240.230</b>		189	-17.210	0.666	251.376	<b>250.650</b>	
185	-17.209	0.669	230.103	<b>230.840</b>		188	-17.210	0.668	241.384	<b>241.240</b>		190	-17.210	0.666	252.040	<b>252.040</b>	
186	-17.206	0.669	231.783	<b>232.540</b>		189	-17.210	0.669	244.146	<b>243.880</b>		191	-17.216	0.668	253.948	<b>254.610</b>	
187	-17.211	0.671	234.065	<b>234.890</b>		190	-17.210	0.670	246.160	<b>245.300</b>		192	-17.218	0.669	255.313	<b>256.220</b>	
188	-17.210	0.672	236.430	<b>236.210</b>		191	-17.214	0.671	247.954	<b>248.200</b>		193	-17.210	0.669	259.716	<b>258.960</b>	
189	-17.210	0.673	239.526	<b>238.870</b>		192	-17.218	0.672	248.998	<b>249.840</b>		194	-17.216	0.670	260.072	<b>260.690</b>	
190	-17.214	0.674	240.630	<b>240.590</b>		193	-17.218	0.673	252.323	<b>252.920</b>		195	-17.192	0.664	262.592	<b>262.540</b>	
191	-17.214	0.675	244.010	<b>243.510</b>		194	-17.214	0.673	254.959	<b>254.690</b>		196	-17.192	0.665	264.932	<b>265.440</b>	
192	-17.214	0.675	245.452	<b>245.460</b>		195	-17.194	0.668	257.438	<b>257.900</b>		197	-17.194	0.666	267.648	<b>268.540</b>	
193	-17.218	0.676	247.834	<b>248.510</b>		196	-17.194	0.668	258.846	<b>259.800</b>		198	-17.192	0.666	269.626	<b>270.580</b>	
194	-17.216	0.676	250.102	<b>250.640</b>		197	-17.194	0.669	262.508	<b>263.210</b>		199	-17.192	0.667	273.232	<b>273.820</b>	

Table A continued from previous page

Z	N	Mass excess (MeV)				Mass excess (MeV)				Mass excess (MeV)							
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.	$\alpha(0)$	$a_a$	Cal.	Ex./Th.				
210	-17.220	0.680	300.066	<b>300.970</b>		213	-17.212	0.678	314.759	<b>314.350</b>		215	-17.218	0.678	325.349	<b>324.690</b>	
211	-17.216	0.680	305.360	<b>305.360</b>		214	-17.210	0.678	318.542	<b>317.620</b>		216	-17.218	0.678	328.434	<b>328.100</b>	
212	-17.214	0.680	309.221	<b>308.750</b>		215	-17.210	0.678	322.567	<b>322.300</b>							
213	-17.216	0.680	312.670	<b>313.270</b>		216	-17.218	0.679	325.088	<b>325.710</b>							
214	-17.217	0.681	317.624	<b>316.840</b>		217	-17.210	0.678	329.991	<b>330.580</b>							
215	-17.216	0.681	322.254	<b>321.550</b>													
216	-17.216	0.681	325.779	<b>325.270</b>													
217	-17.218	0.681	329.539	<b>330.140</b>													
218	-17.214	0.681	334.562	<b>333.960</b>													
124	176	-17.200	0.619	242.481	<b>242.460</b>	125	178	-17.198	0.618	251.190	<b>251.720</b>	126	180	-17.194	0.617	259.644	<b>260.360</b>
177	-17.200	0.625	243.876	<b>243.160</b>		179	-17.196	0.623	252.629	<b>252.590</b>		181	-17.192	0.622	261.168	<b>261.760</b>	
178	-17.198	0.626	242.027	<b>242.630</b>		180	-17.195	0.626	251.830	<b>252.690</b>		182	-17.208	0.634	261.524	<b>261.840</b>	
179	-17.196	0.630	243.288	<b>243.810</b>		181	-17.202	0.636	254.699	<b>254.140</b>		183	-17.210	0.639	262.679	<b>263.530</b>	
180	-17.196	0.635	244.040	<b>244.650</b>		182	-17.204	0.641	255.118	<b>254.550</b>		184	-17.218	0.643	260.661	<b>259.830</b>	
181	-17.194	0.638	245.167	<b>246.050</b>		183	-17.200	0.644	257.090	<b>257.180</b>		185	-17.218	0.645	262.262	<b>261.300</b>	
182	-17.200	0.645	246.288	<b>246.430</b>		184	-17.200	0.649	258.785	<b>257.900</b>		186	-17.221	0.647	262.223	<b>261.570</b>	
183	-17.200	0.649	248.205	<b>248.190</b>		185	-17.216	0.650	255.007	<b>254.680</b>		187	-17.224	0.649	263.252	<b>263.160</b>	
184	-17.200	0.653	249.532	<b>248.930</b>		186	-17.219	0.653	256.194	<b>255.280</b>		188	-17.224	0.651	264.519	<b>263.580</b>	
185	-17.210	0.656	249.664	<b>250.490</b>		187	-17.222	0.655	257.626	<b>256.930</b>		189	-17.224	0.652	265.957	<b>265.420</b>	
186	-17.209	0.657	250.749	<b>251.490</b>		188	-17.224	0.656	257.755	<b>257.690</b>		190	-17.226	0.654	266.947	<b>266.140</b>	
187	-17.210	0.659	253.170	<b>253.460</b>		189	-17.224	0.657	259.531	<b>259.550</b>		191	-17.226	0.655	268.679	<b>268.410</b>	
188	-17.210	0.660	254.252	<b>254.130</b>		190	-17.224	0.658	260.560	<b>260.560</b>		192	-17.224	0.656	270.304	<b>269.550</b>	
189	-17.224	0.662	252.960	<b>252.880</b>		191	-17.224	0.660	263.610	<b>262.860</b>		193	-17.200	0.650	272.868	<b>272.170</b>	
190	-17.224	0.663	254.337	<b>253.910</b>		192	-17.226	0.661	264.312	<b>264.260</b>		194	-17.200	0.651	273.956	<b>273.540</b>	
191	-17.224	0.664	256.739	<b>256.550</b>		193	-17.200	0.655	267.548	<b>266.920</b>		195	-17.204	0.651	273.700	<b>273.930</b>	
192	-17.214	0.665	261.559	<b>261.420</b>		194	-17.189	0.655	271.411	<b>272.340</b>		196	-17.202	0.652	275.670	<b>275.040</b>	
193	-17.190	0.659	264.191	<b>264.140</b>		195	-17.188	0.656	274.155	<b>274.920</b>		197	-17.202	0.653	278.001	<b>277.520</b>	
194	-17.190	0.659	264.835	<b>265.600</b>		196	-17.204	0.657	270.708	<b>270.560</b>		198	-17.206	0.654	278.306	<b>278.770</b>	
195	-17.190	0.660	267.584	<b>268.430</b>		197	-17.202	0.658	274.034	<b>273.100</b>		199	-17.203	0.655	281.879	<b>281.500</b>	
196	-17.188	0.660	269.058	<b>270.010</b>		198	-17.190	0.659	279.863	<b>280.530</b>		200	-17.224	0.665	287.943	<b>288.840</b>	
197	-17.200	0.661	268.202	<b>267.610</b>		199	-17.188	0.659	282.251	<b>283.060</b>		201	-17.201	0.661	292.293	<b>291.620</b>	
198	-17.190	0.662	273.675	<b>274.620</b>		200	-17.189	0.660	284.141	<b>284.730</b>		202	-17.204	0.661	292.303	<b>291.690</b>	
199	-17.190	0.663	276.946	<b>277.520</b>		201	-17.206	0.665	287.006	<b>287.540</b>		203	-17.208	0.662	294.230	<b>294.940</b>	
200	-17.188	0.663	278.833	<b>279.260</b>		202	-17.202	0.662	288.870	<b>289.530</b>		204	-17.204	0.663	298.074	<b>297.110</b>	
201	-17.180	0.662	282.282	<b>282.360</b>		203	-17.218	0.668	290.656	<b>291.170</b>		205	-17.208	0.664	300.270	<b>300.750</b>	
202	-17.210	0.668	282.101	<b>282.820</b>		204	-17.216	0.668	292.826	<b>293.610</b>		206	-17.210	0.665	302.413	<b>303.080</b>	
203	-17.200	0.667	286.432	<b>286.400</b>		205	-17.226	0.672	297.724	<b>297.220</b>		207	-17.210	0.666	306.207	<b>306.740</b>	
204	-17.204	0.669	289.667	<b>288.830</b>		206	-17.222	0.672	300.836	<b>299.910</b>		208	-17.204	0.666	309.811	<b>309.150</b>	
205	-17.206	0.670	293.144	<b>292.730</b>		207	-17.210	0.669	303.029	<b>303.600</b>		209	-17.210	0.667	311.848	<b>312.800</b>	
206	-17.210	0.671	295.246	<b>295.390</b>		208	-17.205	0.669	306.554	<b>306.280</b>		210	-17.210	0.668	315.188	<b>315.280</b>	
207	-17.212	0.672	298.998	<b>299.390</b>		209	-17.206	0.670	310.575	<b>309.970</b>		211	-17.210	0.669	319.511	<b>319.100</b>	
208	-17.200	0.670	301.947	<b>302.090</b>		210	-17.208	0.670	311.954	<b>312.750</b>		212	-17.210	0.669	321.511	<b>321.770</b>	
209	-17.214	0.673	305.117	<b>306.060</b>		211	-17.210	0.671	315.883	<b>316.600</b>		213	-17.196	0.667	325.853	<b>325.940</b>	
210	-17.208	0.673	309.428	<b>308.870</b>		212	-17.210	0.672	319.785	<b>319.520</b>							
211	-17.210	0.673	311.990	<b>311.670</b>		213	-17.210	0.672	322.959	<b>322.180</b>							
212	-17.216	0.674	314.156	<b>314.530</b>		214	-17.210	0.673	327.115	<b>327.420</b>							
213	-17.211	0.675	321.002	<b>320.330</b>													
214	-17.218	0.675	321.313	<b>321.770</b>													
215	-17.218	0.676	326.724	<b>326.170</b>													
127	183	-17.210	0.630	271.462	<b>272.380</b>	128	185	-17.228	0.630	276.923	<b>276.900</b>	129	187	-17.228	0.626	287.465	<b>286.860</b>
184	-17.218	0.634	268.907	<b>268.400</b>		186	-17.224	0.630	276.733	<b>276.820</b>		188	-17.232	0.628	286.171	<b>286.920</b>	
185	-17.223	0.638	269.998	<b>269.510</b>		187	-17.228	0.635	278.845	<b>278.050</b>		189	-17.200	0.619	288.786	<b>288.070</b>	
186	-17.224	0.640	270.160	<b>269.710</b>		188	-17.226	0.636	279.107	<b>278.110</b>		190	-17.200	0.620	288.052	<b>288.400</b>	
187	-17.224	0.642	271.704	<b>271.010</b>		189	-17.236	0.641	279.885	<b>279.640</b>		191	-17.200	0.624	290.793	<b>290.080</b>	
188	-17.226	0.644	271.918	<b>271.380</b>		190	-17.227	0.640	281.023	<b>280.040</b>		192	-17.200	0.626	291.238	<b>290.820</b>	
189	-17.226	0.646	273.828	<b>272.920</b>		191	-17.200	0.632	282.717	<b>282.010</b>		193	-17.200	0.629	293.614	<b>292.760</b>	
190	-17.232	0.648	273.142	<b>273.610</b>		192	-17.200	0.634	283.601	<b>282.760</b>		194	-17.200	0.631	294.447	<b>293.710</b>	
191	-17.200	0.640	276.436	<b>275.600</b>		193	-17.200	0.636	285.540	<b>285.040</b>		195	-17.200	0.632	295.387	<b>295.950</b>	
192	-17.202	0.642	277.132	<b>276.690</b>		194	-17.200	0.638	286.794	<b>286.080</b>		196	-17.194	0.632	296.573	<b>297.050</b>	
193	-17.200	0.643	279.199	<b>279.010</b>		195	-17.200	0.640	289.102	<b>288.580</b>		197	-17.194	0.634	298.738	<b>299.570</b>	
194	-17.204																

Table A continued from previous page

Z	N	Mass excess (MeV)				Z	N	Mass excess (MeV)				Z	N	Mass excess (MeV)				
		$\alpha(0)$	$a_a$	Cal.	Ex./Th.			$\alpha(0)$	$a_a$	Cal.	Ex./Th.			$\alpha(0)$	$a_a$	Cal.	Ex./Th.	
<b>208</b>	-17.210	0.663	313.509	<b>314.010</b>		<b>210</b>	-17.210	0.660	322.237	<b>323.070</b>								
<b>209</b>	-17.210	0.664	317.240	<b>317.390</b>		<b>211</b>	-17.210	0.661	325.872	<b>326.580</b>								
<b>210</b>	-17.209	0.664	319.099	<b>319.830</b>														
<b>211</b>	-17.210	0.665	322.738	<b>323.390</b>														
<b>212</b>	-17.214	0.667	326.238	<b>326.030</b>														
<b>130 189</b>	-17.278	0.642	296.293	<b>295.620</b>		<b>131 192</b>	-17.200	0.608	306.788	<b>306.510</b>		<b>132 194</b>	-17.200	0.605	316.734	<b>316.110</b>		
<b>190</b>	-17.281	0.645	296.515	<b>295.670</b>		<b>193</b>	-17.200	0.612	308.979	<b>308.120</b>		<b>195</b>	-17.190	0.604	318.092	<b>317.920</b>		
<b>191</b>	-17.250	0.634	297.260	<b>297.250</b>		<b>194</b>	-17.200	0.615	309.754	<b>308.780</b>		<b>196</b>	-17.241	0.626	318.201	<b>318.400</b>		
<b>192</b>	-17.250	0.637	298.552	<b>297.740</b>		<b>195</b>	-17.189	0.613	310.921	<b>310.720</b>		<b>197</b>	-17.240	0.628	319.823	<b>320.390</b>		
<b>193</b>	-17.250	0.639	300.080	<b>299.690</b>		<b>196</b>	-17.190	0.616	311.695	<b>311.450</b>		<b>198</b>	-17.240	0.630	320.442	<b>321.020</b>		
<b>194</b>	-17.250	0.640	300.030	<b>300.320</b>		<b>197</b>	-17.189	0.618	313.302	<b>313.470</b>		<b>199</b>	-17.238	0.632	322.756	<b>323.200</b>		
<b>195</b>	-17.239	0.639	302.707	<b>302.540</b>		<b>198</b>	-17.190	0.620	313.571	<b>314.490</b>		<b>200</b>	-17.235	0.634	324.738	<b>324.050</b>		
<b>196</b>	-17.239	0.641	303.822	<b>303.420</b>		<b>199</b>	-17.190	0.623	316.169	<b>316.590</b>		<b>201</b>	-17.254	0.642	326.519	<b>326.270</b>		
<b>197</b>	-17.242	0.643	305.003	<b>305.730</b>		<b>200</b>	-17.191	0.625	316.823	<b>317.790</b>		<b>202</b>	-17.252	0.643	327.660	<b>326.850</b>		
<b>198</b>	-17.242	0.645	306.492	<b>306.740</b>		<b>201</b>	-17.189	0.627	319.504	<b>320.110</b>		<b>203</b>	-17.258	0.645	328.180	<b>329.130</b>		
<b>199</b>	-17.241	0.646	308.320	<b>309.230</b>		<b>202</b>	-17.191	0.629	320.191	<b>320.980</b>		<b>204</b>	-17.252	0.646	330.958	<b>330.390</b>		
<b>200</b>	-17.240	0.647	309.428	<b>310.350</b>		<b>203</b>	-17.204	0.636	323.691	<b>323.240</b>		<b>205</b>	-17.255	0.648	332.827	<b>332.950</b>		
<b>201</b>	-17.238	0.648	311.852	<b>312.640</b>		<b>204</b>	-17.213	0.640	324.801	<b>324.730</b>		<b>206</b>	-17.254	0.649	334.226	<b>334.330</b>		
<b>202</b>	-17.239	0.650	313.693	<b>313.730</b>		<b>205</b>	-17.210	0.640	326.441	<b>327.390</b>		<b>207</b>	-17.255	0.651	337.121	<b>336.990</b>		
<b>203</b>	-17.254	0.656	316.559	<b>316.370</b>		<b>206</b>	-17.208	0.641	328.169	<b>329.050</b>								
<b>204</b>	-17.252	0.657	318.712	<b>317.880</b>		<b>207</b>	-17.204	0.642	331.547	<b>331.770</b>								
<b>205</b>	-17.255	0.658	320.176	<b>320.850</b>		<b>208</b>	-17.204	0.644	334.122	<b>333.550</b>								
<b>206</b>	-17.252	0.658	321.686	<b>322.520</b>														
<b>207</b>	-17.215	0.650	325.350	<b>325.550</b>														
<b>208</b>	-17.260	0.662	326.345	<b>327.340</b>														
<b>209</b>	-17.260	0.664	330.743	<b>330.400</b>														
<b>133 196</b>	-17.240	0.617	326.541	<b>327.150</b>		<b>134 198</b>	-17.200	0.599	337.246	<b>336.780</b>		<b>135 201</b>	-17.252	0.620	350.039	<b>349.300</b>		
<b>197</b>	-17.236	0.619	328.697	<b>328.770</b>		<b>199</b>	-17.200	0.603	339.370	<b>338.500</b>		<b>202</b>	-17.258	0.623	349.182	<b>349.900</b>		
<b>198</b>	-17.241	0.623	328.967	<b>329.480</b>		<b>200</b>	-17.200	0.605	339.167	<b>338.970</b>		<b>203</b>	-17.254	0.625	351.814	<b>351.390</b>		
<b>199</b>	-17.237	0.624	330.623	<b>331.310</b>		<b>201</b>	-17.200	0.609	341.790	<b>340.870</b>		<b>204</b>	-17.254	0.627	352.439	<b>352.480</b>		
<b>200</b>	-17.254	0.633	332.105	<b>332.060</b>		<b>202</b>	-17.202	0.612	342.249	<b>341.500</b>								
<b>201</b>	-17.252	0.635	334.526	<b>333.990</b>		<b>203</b>	-17.208	0.615	342.427	<b>343.260</b>								
<b>202</b>	-17.252	0.637	335.621	<b>334.900</b>		<b>204</b>	-17.204	0.617	344.371	<b>344.140</b>								
<b>203</b>	-17.253	0.639	337.409	<b>336.650</b>		<b>205</b>	-17.200	0.619	347.338	<b>346.470</b>								
<b>204</b>	-17.258	0.641	337.193	<b>337.890</b>														
<b>205</b>	-17.254	0.643	341.037	<b>340.380</b>														
<b>206</b>	-17.265	0.648	342.551	<b>341.680</b>														
<b>136 203</b>	-17.200	0.597	359.516	<b>358.580</b>														

## Acknowledgments

The authors are thankful to the Central University of Himachal Pradesh, Dharamshala, District Kangra (H.P.) for providing the necessary facility for completing this work.

## Declarations

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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