Title

NUCLEAR MASS FORMULA WITH A FINITE-RANGE DROPLET MODEL AND A FOLDED-YUKAWA SINGLE-PARTICLE POTENTIAL

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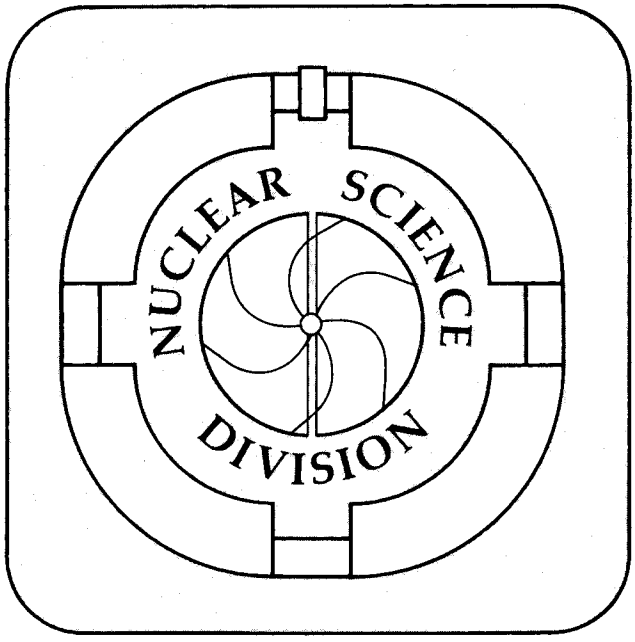

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DISCLAIMER

NUCLEAR MASS FORMULA WITH A FINITE-RANGE DROPLET MODEL AND A FOLDED-YUKAWA SINGLE-PARTICLE POTENTIAL

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Abstract

We calculate ground-state masses for 4678 nuclei ranging from ^{16}O to ^{318}122 by use of a macroscopic-microscopic model, which incorporates several new features. For the macroscopic model we use the finite-range droplet model which we introduced in 1984. The microscopic contribution is taken from a calculation based on a folded-Yukawa single-particle potential. To estimate the parameters of the macroscopic model we use an approach that starts by defining the *error* of a mass formula in a rigorous way, which leads naturally to the use of the *maximum-likelihood* method to derive a set of equations for estimating the parameters and error of the theoretical model. By considering 1593 experimental masses from ^{16}O to ^{263}106 we estimate the error of the theoretical model to be 0.769 MeV. The model retains its accuracy far from stability and the values of the model parameters are very insensitive to details of the adjustment procedure.

1 Introduction

About 20 years ago [1,2] Strutinsky proposed his method for *calculating* the shell corrections in models of the macroscopic-microscopic type. With this method the potential energy of a nucleus can be calculated as a function of shape and it has been extensively applied to the study of nuclear ground-state and fission properties. For an extensive review of some of these developments see [3,4]. Here we apply the model to the study of nuclear ground state masses.

2 Macroscopic-microscopic model

In the macroscopic-microscopic model the nuclear energy, which is calculated as a function of shape, proton number Z and neutron number N, is the sum of a macroscopic term and a microscopic term. Thus the total nuclear potential energy can be written as

$$E(Z,N,\text{shape}) = E_{\text{macr}}(Z,N,\text{shape}) + E_{\text{micr}}(Z,N,\text{shape}) \tag{1}$$

There exist several different models for both the macroscopic and microscopic terms.

Most initial work following the advent of Strutinsky's shell correction method used the *liquid-drop model* [5,6] as the macroscopic model. Later, the addition of new features to the liquid-drop model led to the development of the *droplet model* and the *finite-range model.* The droplet model [7,8,9] allows for different radii for neutrons and protons and for compressibility effects. It is a systematic refinement of the liquid-drop model obtained by including higher-order terms in $A^{1/3}$ and $(N-Z)/(N+Z)$. In a completely separate approach the effect of improving the model for the nuclear surface energy by accounting for the finite range of the nuclear force in a phenomenological way was studied by [10,11].

The *finite-range droplet model*, developed in 1984 [12], combines the droplet model with the folding model surface and Coulomb-energy integrals from the finite-range model [10,13,11]. In addition the finite-range droplet model contains the new exponential term

$$-CAe^{-\gamma A^{1/3}}\bar{\epsilon} \tag{2}$$

where the quantity $\bar{\epsilon}$ is a dilatation variable defined by eq. (11) below and C and γ are two new adjustable parameters. This term leads to an improved description of compressibility effects and is a key to the substantially improved results obtained in the finite-range droplet model relative to the earlier droplet model. This empirical exponential term is more extensively discussed in [12,14].

Here we use the finite-range droplet model for the macroscopic term. Relative to the formulation given in [12], which unfortunately has numerous misprints, we use a new model for the average pairing gaps. The complete expression for the finite-range droplet model energy, minimized with respect to variations in $\bar{\epsilon}$ and $\bar{\delta}$ and with the new average pairing term is

$$\begin{aligned} E(Z,N,\text{shape}) = \quad & M_{\text{H}}Z + M_{\text{n}}N \\ & + \left(-a_1 + J\bar{\delta}^2 - \frac{1}{2}K\bar{\epsilon}^2\right)A \\ & + \left(a_2 B_1 + \frac{9}{4}\frac{J^2}{Q}\bar{\delta}^2\frac{{B_{\text{s}}}^2}{B_1}\right)A^{2/3} \\ & + a_3 A^{1/3} B_{\text{k}} \end{aligned}$$

$$
\begin{aligned}
&+ a_0 A^0 \\
&+ c_1 \frac{Z^2}{A^{1/3}} B_3 \\
&- c_2 Z^2 A^{1/3} B_r \\
&- c_4 \frac{Z^{4/3}}{A^{1/3}} \\
&- c_5 Z^2 \frac{B_w B_s}{B_1} \\
&+ f_0(k_f r_p) \frac{Z^2}{A} \\
&- c_a (N - Z) \\
&+ W \left[|I| + \begin{cases} 1/A & Z \text{ and } N \text{ odd and equal} \\ 0 & \text{otherwise} \end{cases} \right] \\
&+ \begin{cases} + \bar{\Delta}_p + \bar{\Delta}_n - \delta_{np} \ , & Z \text{ and } N \text{ odd} \\ + \bar{\Delta}_p \ , & Z \text{ odd and } N \text{ even} \\ + \bar{\Delta}_n \ , & Z \text{ even and } N \text{ odd} \\ + 0 \ , & Z \text{ and } N \text{ even} \end{cases} \\
&- a_{el} Z^{2.39}
\end{aligned}
\tag{3}
$$

This expression differs from the corresponding one used in our earlier calculation [12] only in the form of the average pairing energy appearing in the next-to-last term. For the average neutron pairing gap $\bar{\Delta}_n$ and average proton pairing gap $\bar{\Delta}_p$ we now use [15,16]

$$\bar{\Delta}_n = \frac{r B_s}{N^{1/3}} e^{-sI - tI^2} \tag{4}$$

and

$$\bar{\Delta}_p = \frac{r B_s}{Z^{1/3}} e^{+sI - tI^2} \tag{5}$$

These results, which were derived [15,16] by use of the BCS approximation applied to a uniform distribution of levels, take into account the dependences of $\bar{\Delta}_n$ and $\bar{\Delta}_p$ upon both the relative neutron excess I and the relative surface energy B_s. For the average neutron-proton interaction energy δ_{np}, we now use the new form [15,16]

$$\delta_{np} = \frac{h}{B_s A^{2/3}} \tag{6}$$

The zero reference point for the pairing energy now corresponds to even-even nuclei rather than to halfway between even-even and odd-odd nuclei.

The quantities c_1, c_2, c_4 and c_5 are defined by

$$\begin{aligned} c_1 &= \frac{3}{5}\frac{e^2}{r_0} \\ c_2 &= \frac{{c_1}^2}{336}\left(\frac{1}{J}+\frac{18}{K}\right) \\ c_4 &= c_1\frac{5}{4}\left(\frac{3}{2\pi}\right)^{2/3} \\ c_5 &= {c_1}^2\frac{1}{64Q} \end{aligned} \tag{7}$$

Also note that we in eq. (3) we have kept only the first term in the expression for the proton form factor f_0, which is thus given by

$$f_0 = -\frac{1}{8}\frac{{r_p}^2e^2}{r_0^3}\frac{145}{48} \tag{8}$$

The relative neutron excess I is given by

$$I = \frac{N-Z}{N+Z} \tag{9}$$

The relative deviation in the bulk of the density ρ from its nuclear matter value ρ_0 is defined as

$$\epsilon = -\frac{1}{3}\frac{\rho-\rho_0}{\rho_0} \tag{10}$$

The *average* relative deviation in the bulk of the density is given by

$$\bar{\epsilon} = \left(Ce^{-\gamma A^{1/3}} - 2a_2\frac{B_2}{A^{1/3}} + L\bar{\delta}^2 + c_1\frac{Z^2}{A^{4/3}}B_4\right)/K \tag{11}$$

The bulk nuclear asymmetry δ is defined as

$$\delta = \frac{\rho_n-\rho_z}{\rho_{\text{bulk}}} \tag{12}$$

and the *average* bulk nuclear asymmetry is given by

$$\bar{\delta} = \left(I + \frac{3}{16}\frac{c_1}{Q}\frac{Z}{A^{2/3}}\frac{B_vB_s}{B_1}\right)\Big/\left(1+\frac{9}{4}\frac{J}{Q}\frac{1}{A^{1/3}}\frac{{B_s}^2}{B_1}\right) \tag{13}$$

The quantity B_1 represents the generalized surface or nuclear energy in a model that accounts for the effect of the finite range of the nuclear force. It is given by

$$B_1 = \frac{A^{-2/3}}{8\pi^2 r_0{}^2 a^4} \int\int_V \left(2 - \frac{|\mathbf{r}-\mathbf{r}'|}{a}\right) \frac{e^{-|\mathbf{r}-\mathbf{r}'|/a}}{|\mathbf{r}-\mathbf{r}'|/a} d^3r d^3r' \tag{14}$$

The quantity B_2 is related to the derivative of B_1 and is defined by

$$B_2 = \frac{1}{2x_0}\left[\frac{d}{dx}\left(x^2 B_1\right)\right]_{x=x_0} \tag{15}$$

with

$$x = \frac{R}{a} \quad \text{and} \quad x_0 = \frac{r_0 A^{1/3}}{a} \tag{16}$$

The relative Coulomb energy B_3 is given by

$$B_3 = \frac{15}{32\pi^2}\frac{A^{-5/3}}{r_0{}^5} \int\int_V \frac{d^3r d^3r'}{|\mathbf{r}-\mathbf{r}'|}\left[1 - \left(1 + \frac{1}{2}\frac{|\mathbf{r}-\mathbf{r}'|}{a_{\text{den}}}\right) e^{-|\mathbf{r}-\mathbf{r}'|/a_{\text{den}}}\right] \tag{17}$$

The quantity B_4 is related to the derivative of the Coulomb energy B_3 and is defined by

$$B_4 = -{y_0}^2\left[\frac{d}{dy}\left(\frac{B_3}{y}\right)\right]_{y=y_0} \tag{18}$$

with

$$y = \frac{R}{a_{\text{den}}} \quad \text{and} \quad y_0 = \frac{r_0 A^{1/3}}{a_{\text{den}}} \tag{19}$$

For spheres one can calculate the quantities B_1, B_2, B_3, and B_4 analytically. One obtains

$$\begin{aligned}
B_1 &= 1 - \frac{3}{{x_0}^2} + (1+x_0)\left(2 + \frac{3}{x_0} + \frac{3}{{x_0}^2}\right) e^{-2x_0} \\
B_2 &= 1 - \left(1 + 2x_0 - {x_0}^2\right) e^{-2x_0} \\
B_3 &= 1 - \frac{5}{{y_0}^2}\left[1 - \frac{15}{8y_0} + \frac{21}{8{y_0}^3} - \frac{3}{4}\left(1 + \frac{9}{2y_0} + \frac{7}{{y_0}^2} + \frac{7}{2{y_0}^3}\right) e^{-2y_0}\right] \\
B_4 &= 1 + 5\left[-\frac{3}{{y_0}^2} + \frac{15}{2{y_0}^3} - \frac{63}{4{y_0}^5} + \frac{3}{4}\left(\frac{2}{y_0} + \frac{12}{{y_0}^2} + \frac{32}{{y_0}^3} + \frac{42}{{y_0}^4} + \frac{21}{{y_0}^5}\right) e^{-2y_0}\right]
\end{aligned} \tag{20}$$

The expression B_3 for the Coulomb energy yields the energy for an arbitrarily shaped, homogeneously charged, diffuse surface nucleus to all orders in the diffuseness parameter a_{den}. The constants in front of B_1 and B_3 have been chosen so that B_1 and

B_3 are 1 for a sphere in the limit the range constant a and the diffuseness constant $a_{\rm den}$ go to zero, in analogy with the definition of the quantities $B_{\rm s}$ and $B_{\rm C}$ in the standard droplet and liquid drop models. The quantities B_2 and B_4 which are related to the derivatives of B_1 and B_3 respectively, were introduced above, to treat the response of the nucleus to a change in size, due to a finite compressibility. The shape-dependent quantities $B_{\rm s}$, $B_{\rm v}$, $B_{\rm w}$, $B_{\rm k}$ and $B_{\rm r}$ are defined [8] in the standard droplet model.

The microscopic corrections are taken from the work of [17], to which we refer for a more detailed discussion of the microscopic model. There, the calculation of the microscopic corrections is based on single-particle levels calculated in a folded-Yukawa single-particle potential [18] and the Lipkin-Nogami [19] method for solving the pairing equations. We also obtained calculated ground-state deformations from [20,21,17]. These are required to calculate the finite-range droplet model energy at the appropriate ground-state shape. Thus, we implicitly assume that the ground-state deformations are the same in our model as in the different model of [17]. It has been shown that this is a reasonable assumption [20] if only the macroscopic model is changed and if the different macroscopic models take finite-range effects into account.

2.1 VALUES OF MACROSCOPIC MODEL CONSTANTS

The constants appearing in the expression for the finite-range droplet macroscopic model fall into three categories. The first category, which represents constants that were taken form previous work with no adjustment whatsoever, includes [20]

$M_{\rm H}$	=	7.289034	MeV	hydrogen-atom mass excess
$M_{\rm n}$	=	8.071431	MeV	neutron mass excess
e^2	=	1.4399764	MeV fm	electronic charge squared
$a_{\rm den}$	=	$0.99/\sqrt{2}$	fm	range of Yukawa function used to generate nuclear charge distribution
$a_{\rm el}$	=	1.433×10^{-5}	MeV	electronic-binding constant
$r_{\rm p}$	=	0.80	fm	proton root-mean-square radius
r_0	=	1.16	fm	nuclear-radius constant
a	=	0.68	fm	range of Yukawa-plus-exponential potential

In our computer program we have rounded $a_{\rm den} = 0.99/\sqrt{2}$ fm $= 0.700034\ldots$ fm to $0.700000\ldots$ fm.

The second category, representing those constants whose values were obtained from odd-even mass differences [15,16] and from adjustments to nuclear ground-state masses and fission barriers in previous work [12] includes

r	=	5.72	MeV	pre-exponential pairing constant
s	=	0.118		linear exponential pairing constant
t	=	8.12		quadratic exponential pairing constant
h	=	6.82	MeV	neutron-proton interaction constant
a_2	=	23.00	MeV	surface-energy constant
J	=	32.5	MeV	symmetry energy constant
L	=	0	MeV	density-symmetry constant
Q	=	29.4	MeV	effective surface stiffness constant
K	=	240	MeV	compressibility constant
a_3	=	0	MeV	curvature correction constant

The constants a_2, J and Q enter in the surface-energy term which is strongly deformation dependent. Since we do not here consider fission barrier heights in our adjustment procedure we retain the values obtained in [12]. We cannot at this stage consider fission barriers in the adjustment, since some new features have been used in the model for calculating the microscopic corrections and we do not have available barrier shell corrections calculated with these new features. However, we expect the present procedure to yield a set of parameters that is also excellent for calculating fission barriers.

The third category represents six constants whose values are estimated from a least-squares adjustment to nuclear ground-state masses. Their values are given later.

2.2 ESTIMATION OF PARAMETERS AND ERROR

We use here the methods described in [17] for estimating the parameters of the macroscopic model and the error of the full macroscopic-microscopic mass formula. The parameters and error are estimated by minimizing S with respect to the model parameters, where

$$S = \sum_{i=1}^{n} \frac{(M^i_{\rm exp} - M^i_{\rm th})^2}{{\sigma^i_{\rm exp}}^2 + {\sigma_{\rm th}}^{2*}} \tag{21}$$

under the auxiliary condition

$$\sum_{i=1}^{n} \frac{(M^i_{\rm exp} - M^i_{\rm th})^2 - ({\sigma^i_{\rm exp}}^2 + {\sigma_{\rm th}}^{2*})}{({\sigma^i_{\rm exp}}^2 + {\sigma_{\rm th}}^{2*})^2} = 0 \tag{22}$$

Thus, we are led to one additional equation relative to the usual least-squares equations that arise when model parameters are estimated by adjustments to experimental data under the assumption of a perfect theory, that is, ${\sigma_{\rm th}}^2 = 0$. One should observe that for our model the least-squares equations (21) are non-linear. Equations (21) and (22) are coupled and constitute a system of equations that are to be solved

together. It is instructive to rewrite eq. (22) as

$$\sigma_{\rm th}^{2\,*} = \frac{1}{\sum_{i=1}^{n} w_i} \sum_{i=1}^{n} w_i \left[(M_{\rm exp}^i - M_{\rm th}^i)^2 - \sigma_{\rm exp}^{i\,2} \right] \tag{23}$$

where

$$w_i = \frac{1}{(\sigma_{\rm exp}^{i\,2} + \sigma_{\rm th}^{2\,*})^k} \tag{24}$$

and

$$k = 2 \tag{25}$$

An intuitive interpretation of this equation is that the experimental error is "subtracted" out and that no experimental contributions are contained in our estimate of the theoretical error. For a discussion and a rigorous derivation of the above equations and for notation we refer to [17], and mention here only that the "star" notation above in $\sigma_{\rm th}^{2\,*}$ means that that the quantity $\sigma_{\rm th}^{2\,*}$ that we obtain by solving the above equations is an *estimate* of the *true* $\sigma_{\rm th}^2$. Below we drop the star from our notation but we remember that all the values obtained for the various quantities are estimates.

3 Calculated masses

By use of eqs. (21) and (22) and the experimental data set of 1593 masses with $Z \geq 8$ and $N \geq 8$ [22] we estimate the remaining parameters and the error of our model. The values of the six remaining parameters are

a_1	=	16.279	MeV	volume energy constant
W	=	33	MeV	Wigner constant
a_0	=	6.2	MeV	A^0 constant
C	=	230	MeV	pre-exponential compressibility-term constant
γ	=	1.44		exponential compressibility-term range constant
$c_{\rm a}$	=	0.432	MeV	charge-asymmetry constant

With the above parameter set we find that the theoretical error $\sigma_{\rm th}$ is 0.769 MeV. The rounding off of the parameters to their above values increased the error by less than 0.0003 MeV. We have checked that the inclusion of the variables J, Q and a_2 in the minimization only decreases the error by 0.0001 MeV. We point out again that fission barriers have not been included in any of these minimizations. Masses calculated with the above model are listed in the Table for 4678 nuclei ranging from ^{16}O to $^{318}122$.

In the Figure we compare the experimental and calculated ground-state microscopic energies for the 1593 nuclei ranging from ^{16}O to $^{318}122$ that are considered here. For this purpose the ground state microscopic energy is defined as the difference between the ground-state mass and the calculated spherical macroscopic energy

obtained from eq. (3), with the shape-dependent functions B_1, B_2, B_3 and B_4 obtained from eq. (20) and with B_s, B_v, B_w, B_k and B_r equal to unity. The difference, labeled discrepancy, is equivalent to the difference between experimental and calculated ground-state masses.

From the Figure we see that there are no increases in the error far from stability. In fact in the region above $N = 60$ the errors are exceedingly small, except around lead. However, here the deviations will to a large extent be removed if octupole shape degrees of freedom are taken into account [20,12,23]. In fact, the neglect of the octupole degree of freedom is part of the reason why we here obtain an error of 0.769 MeV compared to the error 0.676 MeV obtained in the earlier calculation [12]. Another source of the increase is the improved set of shell corrections obtained from [17], which although improved, leads to an increase in the amplitude of the fluctuations in the discrepancy in the light region in the Figure. However, since the remaining discrepancies show strong correlations with magic neutron and proton numbers, this leads us to believe that one can still understand some of the deviations in terms of previously neglected effects. Such effects could be additional shape degrees of freedom and quadrupole pairing.

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Figure caption

Figure. Comparison of experimental and calculated ground-state microscopic energies for 1593 nuclei. Isotopes are connected by lines, even though some mass measurements are missing within certain isotopic chains.

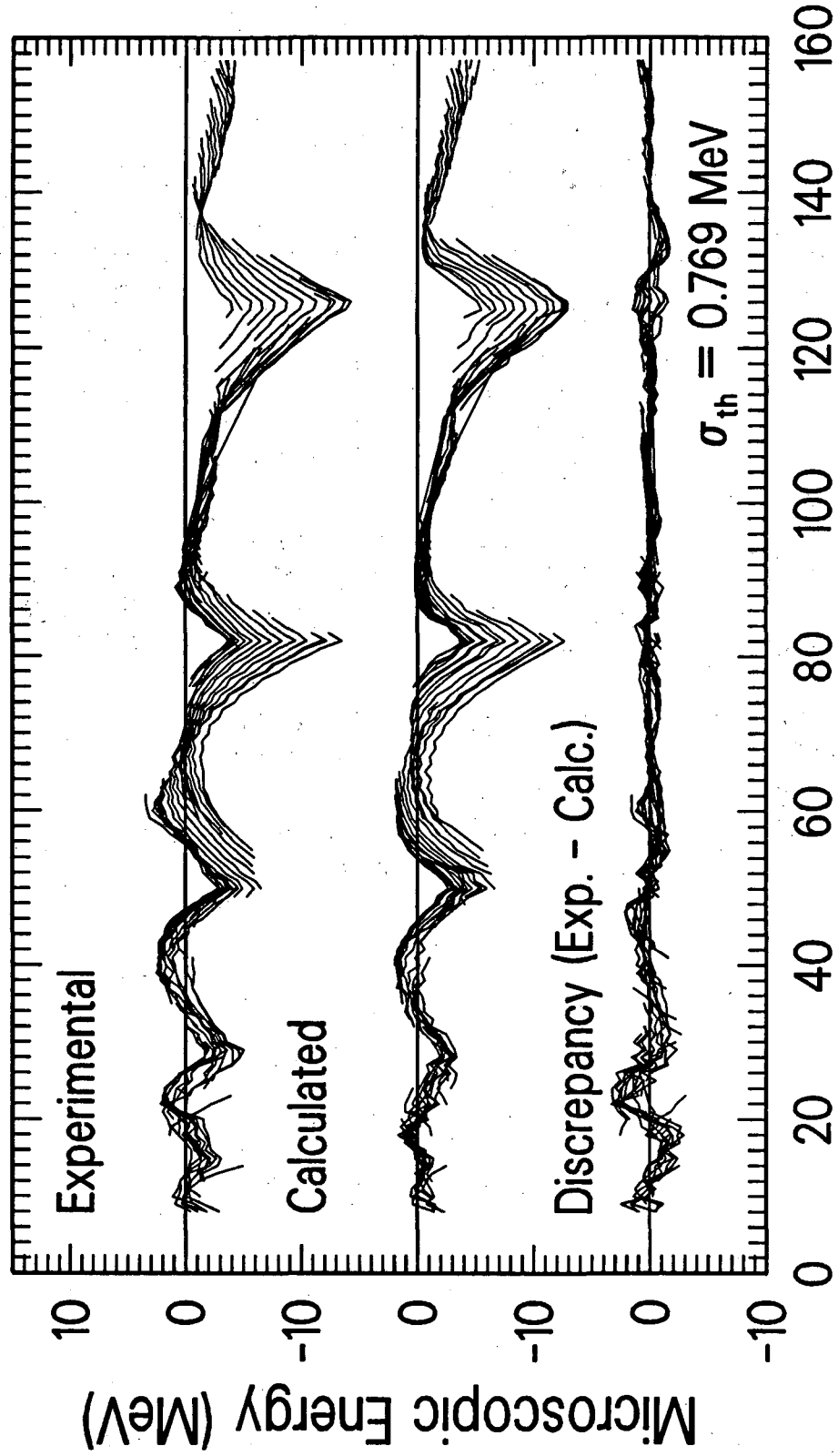
Experimental
Calculated
Discrepancy (Exp. - Calc.)
σ_{th} = 0.769 MeV
Microscopic Energy (MeV)
Neutron Number N
10
0
-10
0
-10
0
-10
0
20
40
60
80
100
120
140
160

Figure.

Explanation of Table

Table. Calculated Ground-State Deformations and Masses, Compared to Experimental Masses Where Available

The β deformation coordinates have been obtained by transformation from the ground-state ϵ deformations determined in [20], and tabulated in [24]

Z	Proton number
N	Neutron number
A	Mass number
β_2	β_2 deformation coordinate
β_4	β_4 deformation coordinate
β_6	β_6 deformation coordinate
$E^{\rm sph}_{\rm macr}$	Spherical macroscopic energy, obtained by evaluating eq. (3) for a spherical shape
Micr.	Calculated ground-state microscopic energy, given by $M_{\rm th}$ - $E^{\rm sph}_{\rm macr}$
$M_{\rm th}$	Calculated ground-state mass
$M_{\rm exp}$	Experimental ground-state mass
Discr.	Discrepancy, given by $M_{\rm exp} - M_{\rm th}$
$\sigma_{\rm exp}$	Reported error in the experimental ground-state mass

TABLE
Calculated Ground-State Deformations and Masses,
Compared to Experimental Masses Where Available

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
8	8	16	−0.004	−0.113	−0.004	−1.84	−2.32	−4.16	−4.74	−0.58	0.000
	9	17	−0.005	−0.101	−0.003	0.72	−0.78	−0.05	−0.81	−0.75	0.000
	10	18	−0.005	−0.101	−0.003	−0.72	−1.46	−2.18	−0.78	1.40	0.001
	11	19	−0.005	−0.101	−0.003	3.70	−1.16	2.55	3.33	0.79	0.003
	12	20	−0.005	−0.087	−0.003	5.02	−0.75	4.27	3.80	−0.47	0.001
	13	21	0.012	0.093	−0.002	10.80	−1.28	9.52	8.07	−1.46	0.015
	14	22	−0.023	−0.073	−0.002	14.42	−2.46	11.96	9.44	−2.52	0.090
	15	23	−0.006	−0.073	−0.002	21.31	−2.97	18.34			
	16	24	−0.040	−0.099	−0.002	26.76	−3.91	22.85			
	17	25	−0.059	−0.071	−0.001	34.62	−2.04	32.58			
	18	26	−0.024	−0.032	−0.001	41.54	−3.01	38.53			
	19	27	−0.007	−0.020	−0.001	50.24	−2.62	47.62			
	20	28	−0.007	−0.061	−0.002	58.34	−4.56	53.78			
	21	29	−0.007	−0.061	−0.002	67.79	−3.64	64.15			
	22	30	0.119	0.114	−0.002	76.87	−0.16	76.71			
	23	31	0.192	0.156	0.001	86.98	−3.84	83.14			
	24	32	0.210	0.083	0.003	96.87	−2.86	94.00			
	25	33	0.236	0.339	0.000	107.57	−5.71	101.86			
9	8	17	−0.004	−0.113	−0.004	3.79	−1.47	2.32	1.95	−0.37	0.000
	9	18	−0.005	−0.101	−0.003	1.61	0.41	2.02	0.87	−1.15	0.001
	10	19	0.012	0.093	−0.002	−2.60	0.35	−2.25	−1.49	0.77	0.000
	11	20	0.248	0.198	0.004	−0.66	−0.58	−1.24	−0.02	1.22	0.000
	12	21	0.210	0.098	0.004	−0.51	−0.24	−0.75	−0.05	0.70	0.002
	13	22	0.191	0.080	0.003	2.98	−0.04	2.94	2.83	−0.11	0.030
	14	23	−0.162	0.071	−0.002	5.45	−1.09	4.36	3.35	−1.01	0.170
	15	24	−0.040	−0.086	−0.003	10.22	−1.36	8.86			
	16	25	−0.093	−0.108	−0.002	14.67	−1.86	12.81			
	17	26	−0.094	−0.082	−0.002	20.55	−0.38	20.17			
	18	27	−0.024	−0.032	−0.001	26.63	−0.56	26.07			
	19	28	−0.007	−0.020	−0.001	33.50	0.18	33.67			
	20	29	−0.007	−0.047	−0.001	40.92	−1.53	39.39			
	21	30	0.083	0.082	−0.001	48.65	−0.67	47.98			
	22	31	0.156	0.150	−0.001	57.17	−1.32	55.85			
	23	32	0.192	0.140	0.001	65.67	0.53	66.20			
	24	33	0.192	0.095	0.003	75.11	−1.05	74.06			
	25	34	0.360	0.118	0.008	84.30	−1.04	83.26			
	26	35	0.231	0.257	0.000	94.51	−3.01	91.50			
10	8	18	0.105	0.203	−0.009	5.78	−1.35	4.43	5.32	0.89	0.005
	9	19	0.157	0.196	−0.005	0.82	−1.53	−0.71	1.75	2.46	0.001
	10	20	0.378	0.283	0.023	−7.67	0.55	−7.12	−7.05	0.08	0.002
	11	21	0.397	0.192	0.017	−6.15	0.50	−5.65	−5.74	−0.08	0.002
	12	22	0.359	0.133	0.010	−8.47	−0.17	−8.64	−8.03	0.61	0.002
	13	23	0.229	0.057	0.003	−5.13	−0.50	−5.63	−5.16	0.48	0.003
	14	24	−0.163	0.044	−0.001	−5.01	−1.13	−6.13	−5.95	0.18	0.010

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
10	15	25	0.029	−0.006	0.000	−0.29	−1.07	−1.35	−2.06	−0.71	0.040
	16	26	0.082	−0.018	0.000	1.95	0.05	2.00	0.44	−1.56	0.070
	17	27	−0.078	−0.018	0.000	7.79	0.13	7.92			
	18	28	−0.024	−0.006	0.000	11.80	−0.24	11.55			
	19	29	−0.007	−0.006	0.000	18.61	0.35	18.95			
	20	30	−0.007	−0.006	0.000	24.09	−1.39	22.69			
	21	31	0.248	0.167	0.004	31.75	−0.63	31.12			
	22	32	0.212	0.206	−0.001	38.46	−1.51	36.95			
	23	33	0.229	0.177	0.002	46.88	−1.99	44.88			
	24	34	0.210	0.128	0.003	54.62	−1.13	53.49			
	25	35	0.210	0.098	0.004	63.72	−1.08	62.64			
	26	36	0.230	0.193	0.001	72.35	−2.03	70.32			
	27	37	0.382	0.048	0.001	82.06	−2.18	79.88			
11	8	19	0.194	0.233	−0.004	13.97	−2.11	11.86	12.93	1.07	0.012
	9	20	0.322	0.153	0.009	6.53	−1.28	5.25	6.84	1.59	0.007
	10	21	0.417	0.183	0.018	−2.39	−0.01	−2.40	−2.19	0.21	0.002
	11	22	0.439	0.112	0.009	−4.86	0.20	−4.66	−5.18	−0.53	0.002
	12	23	0.444	0.037	−0.001	−9.43	−0.43	−9.86	−9.53	0.33	0.001
	13	24	0.404	0.024	−0.002	−8.28	−0.60	−8.88	−8.42	0.46	0.001
	14	25	−0.278	0.103	−0.004	−9.07	−0.40	−9.47	−9.36	0.11	0.001
	15	26	0.064	−0.004	0.001	−6.40	0.19	−6.20	−6.90	−0.70	0.016
	16	27	0.138	−0.014	0.000	−5.09	0.26	−4.84	−5.60	−0.76	0.040
	17	28	−0.060	−0.004	−0.001	−1.16	1.09	−0.08	−1.14	−1.06	0.140
	18	29	−0.007	−0.006	0.000	1.98	0.74	2.72	2.65	−0.07	0.150
	19	30	−0.007	−0.006	0.000	6.99	1.48	8.48	8.21	−0.27	0.250
	20	31	0.379	0.139	0.012	11.71	0.74	12.45	11.83	−0.62	0.580
	21	32	0.379	0.139	0.012	17.68	0.71	18.39	16.55	−1.84	0.740
	22	33	0.341	0.144	0.010	23.73	−0.01	23.73	21.47	−2.26	1.140
	23	34	0.341	0.144	0.010	30.56	−0.83	29.73	26.65	−3.08	3.570
	24	35	0.304	0.088	0.005	37.75	−1.49	36.26			
	25	36	0.304	0.057	0.003	45.35	−1.70	43.64			
	26	37	0.267	0.020	0.001	53.51	−1.44	52.06			
	27	38	0.210	0.128	0.003	61.79	−0.22	61.57			
	28	39	0.329	−0.040	−0.007	70.78	−1.83	68.95			
12	8	20	−0.007	−0.006	0.000	19.40	−1.35	18.05	17.57	−0.48	0.027
	9	21	0.285	0.083	0.005	10.79	−1.42	9.36	10.91	1.55	0.016
	10	22	0.421	0.060	0.002	−0.61	−0.09	−0.70	−0.40	0.30	0.002
	11	23	0.445	0.021	−0.002	−5.33	0.11	−5.23	−5.47	−0.25	0.001
	12	24	0.451	−0.052	−0.014	−13.58	−0.31	−13.89	−13.93	−0.04	0.001
	13	25	0.408	−0.035	−0.009	−12.84	−0.43	−13.27	−13.19	0.08	0.001
	14	26	−0.310	0.110	−0.004	−15.81	−0.56	−16.37	−16.21	0.16	0.001
	15	27	0.101	−0.002	0.001	−13.33	−0.16	−13.49	−14.59	−1.10	0.001
	16	28	0.194	−0.035	−0.003	−14.10	−0.06	−14.16	−15.02	−0.85	0.002
	17	29	−0.095	−0.002	−0.001	−10.27	0.59	−9.69	−10.66	−0.98	0.029
	18	30	−0.007	−0.006	0.000	−9.11	0.54	−8.57	−9.10	−0.53	0.210
	19	31	−0.007	−0.006	0.000	−4.15	1.28	−2.87			
	20	32	0.361	0.072	0.004	−1.30	1.34	0.03	−1.75	−1.78	1.580

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
12	21	33	0.361	0.087	0.005	4.61	1.33	5.95			
	22	34	0.361	0.087	0.005	8.90	0.84	9.74			
	23	35	0.342	0.083	0.005	15.67	0.03	15.70			
	24	36	0.344	0.038	0.001	21.19	−0.89	20.29			
	25	37	0.346	0.008	−0.001	28.72	−1.51	27.20			
	26	38	0.349	−0.035	−0.006	35.29	−1.92	33.37			
	27	39	−0.238	0.166	−0.008	43.51	−1.77	41.74			
	28	40	−0.261	0.167	−0.007	51.01	−3.12	47.89			
	29	41	−0.228	0.089	−0.002	59.84	−1.85	57.99			
13	8	21	0.119	−0.001	0.001	29.63	−1.93	27.70			
	9	22	0.229	0.086	0.004	18.71	−0.93	17.78	18.09	0.31	0.070
	10	23	0.364	0.013	−0.002	7.16	−1.22	5.94	6.77	0.82	0.025
	11	24	0.447	−0.008	−0.007	0.24	−0.46	−0.22	−0.05	0.17	0.004
	12	25	0.456	−0.095	−0.022	−8.42	−0.76	−9.18	−8.91	0.27	0.001
	13	26	−0.380	0.212	−0.013	−11.14	−0.01	−11.15	−12.21	−1.05	0.001
	14	27	−0.357	0.148	−0.008	−16.00	−0.50	−16.50	−17.20	−0.69	0.001
	15	28	0.214	−0.047	−0.004	−15.49	−0.65	−16.15	−16.85	−0.70	0.001
	16	29	0.214	−0.047	−0.004	−17.01	−0.13	−17.14	−18.21	−1.07	0.001
	17	30	−0.215	−0.067	0.000	−15.03	0.14	−14.89	−15.89	−1.00	0.040
	18	31	−0.060	−0.004	−0.001	−14.64	1.15	−13.49	−15.05	−1.56	0.070
	19	32	−0.007	−0.006	0.000	−11.43	1.40	−10.02			
	20	33	0.047	0.009	0.000	−9.33	−0.59	−9.92			
	21	34	0.325	0.033	0.001	−5.05	1.68	−3.38			
	22	35	0.304	0.057	0.003	−1.46	1.09	−0.37			
	23	36	0.306	0.028	0.000	3.75	0.30	4.05			
	24	37	0.307	−0.001	−0.002	8.66	−0.02	8.64			
	25	38	0.309	−0.030	−0.005	14.71	−0.79	13.92			
	26	39	0.351	−0.065	−0.010	20.75	−1.08	19.67			
	27	40	0.185	0.000	0.001	27.56	−0.94	26.62			
	28	41	−0.294	0.172	−0.010	34.59	−2.89	31.70			
	29	42	−0.254	0.105	−0.003	42.09	−1.77	40.32			
	30	43	0.192	0.007	0.001	49.98	−1.37	48.61			
14	8	22	−0.042	−0.005	−0.001	38.01	−2.94	35.07			
	9	23	−0.363	0.223	−0.014	25.94	−1.54	24.39			
	10	24	−0.335	0.186	−0.010	12.03	−1.00	11.03	10.76	−0.28	0.019
	11	25	−0.384	0.185	−0.012	4.19	0.00	4.19	3.83	−0.36	0.010
	12	26	−0.384	0.185	−0.012	−6.65	−0.46	−7.11	−7.14	−0.04	0.003
	13	27	−0.400	0.190	−0.012	−11.27	0.19	−11.07	−12.39	−1.31	0.001
	14	28	−0.390	0.144	−0.009	−19.36	−0.65	−20.01	−21.49	−1.48	0.001
	15	29	−0.330	0.074	−0.003	−19.24	−0.65	−19.89	−21.90	−2.00	0.001
	16	30	−0.215	−0.067	0.000	−22.71	−0.11	−22.81	−24.43	−1.62	0.001
	17	31	−0.215	−0.042	−0.001	−20.94	0.12	−20.82	−22.95	−2.13	0.001
	18	32	−0.060	−0.004	−0.001	−22.42	1.25	−21.17	−24.08	−2.91	0.001
	19	33	−0.007	0.008	0.000	−19.33	0.70	−18.64	−20.49	−1.86	0.016
	20	34	−0.007	0.008	0.000	−19.02	−0.98	−20.00	−19.96	0.04	0.015
	21	35	0.119	0.027	0.001	−14.83	0.16	−14.67	−14.32	0.35	0.050
	22	36	0.210	0.083	0.003	−12.94	0.86	−12.07			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
14	23	37	0.210	0.054	0.003	−7.79	0.49	−7.29			
	24	38	0.211	0.039	0.002	−4.51	0.56	−3.94			
	25	39	0.212	−0.005	0.000	1.49	−0.40	1.09			
	26	40	−0.234	0.107	−0.003	5.98	−1.25	4.72			
	27	41	−0.283	0.152	−0.006	12.73	−2.41	10.32			
	28	42	−0.313	0.176	−0.011	18.28	−3.93	14.35			
	29	43	−0.260	0.118	−0.004	25.72	−2.78	22.94			
	30	44	−0.255	0.099	−0.004	32.21	−2.30	29.91			
	31	45	−0.256	0.075	−0.004	40.27	−1.88	38.40			
	32	46	−0.295	0.089	−0.003	47.58	−1.62	45.97			
15	8	23	−0.007	−0.006	0.000	49.99	−3.60	46.40			
	9	24	−0.113	0.013	−0.001	35.78	−2.80	32.98			
	10	25	−0.007	−0.006	0.000	21.82	−2.07	19.75			
	11	26	−0.275	0.130	−0.005	11.92	−1.63	10.29			
	12	27	−0.324	0.140	−0.007	0.87	−0.89	−0.01	−0.75	−0.74	0.040
	13	28	−0.384	0.185	−0.012	−5.71	−0.11	−5.83	−7.16	−1.34	0.004
	14	29	−0.360	0.122	−0.006	−14.19	−0.85	−15.05	−16.95	−1.90	0.001
	15	30	−0.095	0.011	−0.001	−17.13	−0.69	−17.81	−20.20	−2.38	0.001
	16	31	−0.198	−0.070	0.000	−22.23	−0.70	−22.93	−24.44	−1.51	0.001
	17	32	−0.113	−0.001	−0.001	−22.25	0.52	−21.74	−24.30	−2.57	0.001
	18	33	−0.024	−0.006	0.000	−24.35	0.36	−23.99	−26.34	−2.34	0.001
	19	34	−0.007	−0.006	0.000	−22.96	1.07	−21.89	−24.56	−2.66	0.001
	20	35	−0.007	−0.006	0.000	−23.31	−0.25	−23.56	−24.86	−1.29	0.002
	21	36	−0.007	−0.006	0.000	−20.72	0.47	−20.25	−20.25	0.00	0.013
	22	37	0.119	0.042	0.002	−19.48	0.41	−19.06			
	23	38	0.137	0.029	0.001	−15.85	0.44	−15.41			
	24	39	0.192	0.022	0.002	−13.18	−0.06	−13.24			
	25	40	0.261	−0.006	−0.001	−8.64	0.04	−8.60			
	26	41	0.239	−0.035	−0.004	−4.71	−0.78	−5.49			
	27	42	0.163	−0.021	−0.001	0.65	−0.76	−0.11			
	28	43	−0.247	0.109	−0.004	5.71	−2.16	3.55			
	29	44	0.127	−0.006	0.001	11.82	−1.67	10.15			
	30	45	0.171	−0.020	−0.001	17.86	−1.30	16.56			
	31	46	0.171	−0.032	−0.001	24.65	−0.93	23.72			
	32	47	0.194	−0.047	−0.004	31.57	−0.65	30.92			
	33	48	0.212	−0.075	−0.007	38.99	−0.56	38.42			
16	8	24	−0.118	−0.347	0.006	60.85	−7.88	52.96			
	9	25	0.187	−0.188	−0.017	45.61	−2.29	43.32			
	10	26	0.224	−0.171	−0.018	29.42	−1.55	27.87			
	11	27	0.301	−0.160	−0.022	18.59	−1.39	17.19			
	12	28	0.281	−0.163	−0.020	5.46	−1.26	4.20	4.13	−0.07	0.160
	13	29	−0.312	0.096	−0.004	−1.88	−0.84	−2.71	−3.16	−0.45	0.050
	14	30	−0.282	0.037	−0.001	−12.31	−1.26	−13.58	−14.06	−0.48	0.003
	15	31	0.101	−0.017	0.000	−16.89	−0.08	−16.96	−19.05	−2.08	0.002
	16	32	−0.198	−0.083	0.000	−24.88	−0.19	−25.07	−26.02	−0.95	0.000
	17	33	−0.198	−0.083	0.000	−25.26	0.15	−25.11	−26.58	−1.48	0.000
	18	34	−0.042	−0.005	−0.001	−29.14	0.17	−28.96	−29.93	−0.97	0.000

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
16	19	35	−0.007	−0.006	0.000	−27.97	0.88	−27.09	−28.84	−1.76	0.000
	20	36	0.011	−0.006	0.000	−30.02	−0.61	−30.62	−30.66	−0.04	0.000
	21	37	0.064	−0.004	0.001	−27.57	1.07	−26.50	−26.90	−0.39	0.000
	22	38	0.155	0.031	0.002	−27.96	1.04	−26.92	−26.86	0.06	0.007
	23	39	0.174	0.005	0.001	−24.43	0.86	−23.57			
	24	40	0.262	−0.018	−0.003	−23.33	0.39	−22.95	−22.52	0.43	0.040
	25	41	0.270	−0.035	−0.005	−18.86	0.25	−18.61			
	26	42	0.264	−0.061	−0.006	−16.44	−0.49	−16.92			
	27	43	0.156	−0.022	−0.001	−11.13	−0.83	−11.97			
	28	44	−0.143	0.025	−0.001	−7.52	−1.78	−9.30			
	29	45	−0.177	0.000	0.000	−1.47	−2.17	−3.63			
	30	46	0.211	−0.057	−0.004	3.19	−1.51	1.68			
	31	47	0.203	−0.052	−0.004	9.93	−1.28	8.65			
	32	48	0.227	−0.073	−0.007	15.52	−0.85	14.67			
	33	49	0.236	−0.096	−0.009	22.89	−0.68	22.21			
	34	50	0.244	−0.107	−0.010	29.31	−0.97	28.34			
17	8	25	−0.060	−0.004	−0.001	74.41	−3.97	70.43			
	9	26	−0.195	−0.134	0.002	57.19	−3.26	53.92			
	10	27	0.214	−0.060	−0.005	40.94	−2.36	38.58			
	11	28	0.272	−0.066	−0.008	28.18	−1.87	26.31			
	12	29	0.214	−0.060	−0.005	14.95	−1.46	13.49			
	13	30	−0.266	−0.006	−0.001	5.76	−1.35	4.41			
	14	31	−0.250	−0.023	0.000	−4.91	−1.29	−6.19	−7.06	−0.87	0.050
	15	32	−0.199	−0.057	0.000	−11.27	−1.35	−12.62	−13.33	−0.71	0.008
	16	33	−0.197	−0.095	0.000	−19.62	−0.20	−19.82	−21.00	−1.18	0.001
	17	34	−0.197	−0.095	0.000	−22.75	0.26	−22.48	−24.44	−1.96	0.000
	18	35	−0.060	−0.004	−0.001	−28.06	1.03	−27.02	−29.01	−1.99	0.000
	19	36	−0.007	−0.006	0.000	−28.53	0.49	−28.04	−29.52	−1.48	0.000
	20	37	−0.024	−0.006	0.000	−31.11	−0.89	−32.00	−31.76	0.24	0.000
	21	38	0.047	−0.005	0.001	−30.23	−0.40	−30.64	−29.80	0.84	0.000
	22	39	0.155	0.003	0.001	−31.19	0.45	−30.74	−29.80	0.94	0.003
	23	40	0.133	−0.006	0.001	−29.15	0.09	−29.07	−27.53	1.54	0.040
	24	41	0.155	−0.009	0.000	−28.62	−0.17	−28.78	−27.40	1.38	0.150
	25	42	0.209	−0.015	−0.002	−25.57	−0.35	−25.92			
	26	43	0.164	−0.027	−0.001	−23.69	−0.87	−24.55	−23.13	1.42	0.060
	27	44	0.134	−0.024	0.001	−19.74	−0.95	−20.69			
	28	45	−0.157	0.009	−0.001	−16.64	−1.50	−18.14			
	29	46	−0.185	−0.022	0.002	−11.89	−1.40	−13.29			
	30	47	−0.199	−0.031	0.003	−7.70	−0.81	−8.51			
	31	48	−0.212	−0.046	0.002	−2.21	−0.43	−2.64			
	32	49	−0.225	−0.049	0.002	2.95	−0.04	2.91			
	33	50	−0.252	−0.055	0.002	9.12	0.19	9.31			
	34	51	−0.266	−0.058	0.003	15.16	−0.15	15.01			
	35	52	−0.300	−0.051	0.004	21.95	0.42	22.37			
18	8	26	−0.108	−0.145	−0.002	87.33	−4.47	82.87			
	9	27	−0.179	−0.111	0.001	69.26	−2.67	66.59			
	10	28	0.343	0.053	0.002	50.92	−2.44	48.48			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
18	11	29	0.364	0.013	−0.002	37.28	−1.82	35.46			
	12	30	−0.215	−0.054	−0.001	22.07	−1.22	20.85			
	13	31	−0.250	−0.036	0.000	12.09	−0.83	11.27			
	14	32	−0.232	−0.051	0.000	−0.44	−0.83	−1.27	−2.18	−0.91	0.050
	15	33	−0.214	−0.081	0.000	−7.43	−0.60	−8.03	−9.38	−1.35	0.030
	16	34	−0.213	−0.106	0.001	−17.56	0.34	−17.22	−18.38	−1.15	0.003
	17	35	−0.213	−0.106	0.001	−22.13	0.77	−21.36	−23.05	−1.69	0.001
	18	36	−0.113	−0.041	−0.001	−30.06	0.88	−29.18	−30.23	−1.05	0.000
	19	37	−0.007	−0.006	0.000	−30.86	0.25	−30.61	−30.95	−0.34	0.001
	20	38	−0.060	−0.019	−0.001	−35.07	0.13	−34.94	−34.72	0.23	0.001
	21	39	−0.042	−0.005	−0.001	−34.41	−0.55	−34.97	−33.24	1.72	0.005
	22	40	0.024	0.000	0.000	−36.94	−0.71	−37.65	−35.04	2.61	0.001
	23	41	0.061	−0.005	0.001	−35.05	−0.14	−35.20	−33.06	2.13	0.001
	24	42	0.053	−0.005	0.001	−36.03	−0.44	−36.47	−34.42	2.06	0.040
	25	43	0.105	0.004	0.000	−33.09	−0.72	−33.81	−31.98	1.83	0.070
	26	44	0.076	−0.004	0.001	−32.66	−1.06	−33.73	−32.26	1.47	0.020
	27	45	0.105	−0.014	0.000	−28.80	−0.82	−29.62	−29.72	−0.10	0.060
	28	46	0.032	0.000	0.000	−27.10	−1.92	−29.02	−29.72	−0.70	0.040
	29	47	−0.116	−0.012	0.000	−22.41	−2.14	−24.55	−25.91	−1.36	0.100
	30	48	−0.199	−0.048	0.002	−19.57	−1.32	−20.90			
	31	49	−0.212	−0.062	0.001	−14.14	−0.77	−14.91			
	32	50	−0.225	−0.066	0.001	−10.27	−0.32	−10.59			
	33	51	−0.252	−0.072	0.003	−4.16	−0.03	−4.18			
	34	52	−0.252	−0.072	0.003	0.63	−0.17	0.46			
	35	53	−0.279	−0.077	0.006	7.37	−0.29	7.07			
	36	54	−0.259	−0.081	0.004	12.99	0.03	13.02			
19	8	27	−0.076	−0.097	−0.002	102.34	−3.53	98.81			
	9	28	−0.127	−0.105	−0.001	82.41	−2.36	80.05			
	10	29	0.417	0.152	0.014	64.00	−2.81	61.20			
	11	30	0.421	0.060	0.002	48.56	−1.95	46.61			
	12	31	−0.198	−0.083	0.000	33.27	−1.23	32.04			
	13	32	−0.215	−0.067	0.000	21.54	−0.91	20.63			
	14	33	−0.214	−0.081	0.000	8.87	−0.91	7.96			
	15	34	−0.198	−0.083	0.000	0.18	−0.55	−0.36			
	16	35	−0.197	−0.109	0.001	−10.18	0.35	−9.82	−11.17	−1.34	0.020
	17	36	−0.197	−0.109	0.001	−16.38	0.54	−15.84	−17.42	−1.58	0.008
	18	37	−0.060	−0.019	−0.001	−24.64	1.64	−23.00	−24.80	−1.80	0.001
	19	38	−0.007	−0.006	0.000	−27.94	0.46	−27.48	−28.80	−1.32	0.001
	20	39	−0.042	−0.019	0.000	−33.44	−0.82	−34.26	−33.81	0.45	0.001
	21	40	−0.060	−0.004	0.000	−34.30	0.27	−34.02	−33.53	0.49	0.001
	22	41	−0.039	−0.005	0.000	−37.29	−0.95	−38.24	−35.56	2.68	0.001
	23	42	−0.060	−0.010	0.000	−36.85	−0.82	−37.68	−35.02	2.66	0.001
	24	43	−0.053	−0.005	0.000	−38.33	−0.76	−39.09	−36.59	2.50	0.009
	25	44	−0.075	−0.010	0.000	−36.78	−0.83	−37.61	−35.81	1.80	0.040
	26	45	−0.067	−0.004	−0.001	−36.85	−1.18	−38.03	−36.61	1.41	0.010
	27	46	0.082	−0.010	0.000	−34.32	−1.56	−35.88	−35.42	0.46	0.016
	28	47	−0.053	−0.005	0.000	−33.11	−1.95	−35.06	−35.70	−0.64	0.008
	29	48	−0.088	−0.009	0.000	−29.70	−1.74	−31.44	−32.12	−0.69	0.024

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
19	30	49	−0.081	−0.009	0.000	−27.33	−1.24	−28.57	−30.77	−2.20	0.300
	31	50	−0.088	−0.009	0.000	−23.12	−0.72	−23.84			
	32	51	−0.095	−0.014	0.000	−19.69	−0.01	−19.70			
	33	52	−0.109	−0.019	−0.001	−14.76	0.39	−14.37			
	34	53	−0.123	−0.023	0.000	−10.37	0.67	−9.71			
	35	54	−0.137	−0.033	0.001	−4.78	1.01	−3.77			
	36	55	−0.129	−0.045	0.001	0.48	1.01	1.50			
	37	56	−0.144	−0.055	0.002	6.69	1.23	7.92			
20	8	28	−0.022	−0.100	−0.003	117.04	−5.43	111.61			
	9	29	0.416	0.231	0.023	96.40	−3.49	92.91			
	10	30	0.437	0.159	0.015	76.04	−3.02	73.02			
	11	31	0.440	0.082	0.005	59.81	−2.18	57.63			
	12	32	−0.077	−0.070	−0.002	42.65	−0.25	42.39			
	13	33	−0.060	−0.045	−0.001	30.16	−0.27	29.89			
	14	34	−0.078	−0.030	−0.001	15.70	−1.03	14.67			
	15	35	−0.060	−0.031	−0.001	6.35	−0.47	5.88	4.45	−1.43	0.060
	16	36	−0.146	−0.077	−0.001	−5.72	0.21	−5.51	−6.44	−0.93	0.040
	17	37	−0.078	−0.030	−0.001	−12.47	0.89	−11.58	−13.16	−1.58	0.022
	18	38	−0.024	−0.006	0.000	−22.36	−0.05	−22.40	−22.06	0.34	0.005
	19	39	−0.007	−0.006	0.000	−26.94	0.31	−26.63	−27.27	−0.65	0.002
	20	40	0.003	0.000	0.000	−34.83	0.72	−34.11	−34.85	−0.74	0.001
	21	41	−0.010	−0.012	0.000	−35.99	−0.13	−36.12	−35.14	0.98	0.001
	22	42	0.003	0.000	0.000	−40.49	−0.24	−40.73	−38.55	2.18	0.001
	23	43	0.011	0.000	0.000	−40.28	−0.64	−40.92	−38.41	2.51	0.001
	24	44	0.003	0.000	0.000	−43.21	−0.63	−43.84	−41.47	2.37	0.001
	25	45	0.011	0.000	0.000	−41.81	−1.13	−42.94	−40.81	2.13	0.001
	26	46	0.011	0.000	0.000	−43.29	−1.40	−44.70	−43.14	1.56	0.003
	27	47	0.039	−0.005	0.000	−40.88	−1.81	−42.68	−42.34	0.34	0.003
	28	48	0.003	0.000	0.000	−41.03	−2.10	−43.13	−44.21	−1.09	0.004
	29	49	0.018	0.000	0.000	−37.70	−2.52	−40.22	−41.29	−1.07	0.004
	30	50	0.011	0.000	0.000	−36.65	−1.93	−38.57	−39.57	−1.00	0.009
	31	51	0.011	0.000	0.000	−32.51	−1.40	−33.91	−35.01	−1.10	0.080
	32	52	0.011	0.000	0.000	−30.35	−0.91	−31.26			
	33	53	0.047	−0.005	0.000	−25.48	0.02	−25.45			
	34	54	0.032	0.000	0.000	−22.31	0.08	−22.24			
	35	55	0.039	−0.011	0.001	−16.77	0.56	−16.20			
	36	56	0.024	−0.006	0.000	−12.70	0.41	−12.29			
	37	57	−0.032	−0.005	0.000	−6.53	0.41	−6.12			
	38	58	−0.011	0.000	0.000	−1.64	0.14	−1.49			
21	9	30	0.435	0.238	0.026	110.99	−1.98	109.02			
	10	31	0.437	0.175	0.018	90.55	−1.90	88.64			
	11	32	0.440	0.082	0.005	72.62	−1.76	70.86			
	12	33	−0.005	0.093	−0.003	55.38	−0.69	54.69			
	13	34	−0.006	0.063	−0.002	41.24	−0.06	41.17			
	14	35	−0.007	−0.047	−0.001	26.69	−0.98	25.71			
	15	36	−0.007	−0.020	−0.001	15.72	−0.43	15.29			
	16	37	−0.007	−0.006	0.000	3.50	0.08	3.59			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
21	17	38	−0.007	−0.006	0.000	−4.81	0.55	−4.26			
	18	39	−0.007	−0.006	0.000	−14.93	1.11	−13.82	−14.30	−0.48	0.050
	19	40	−0.060	−0.004	0.000	−21.03	−0.20	−21.23	−20.53	0.71	0.004
	20	41	−0.010	−0.018	0.000	−29.22	−0.27	−29.49	−28.64	0.85	0.001
	21	42	0.061	0.038	0.001	−32.68	−0.60	−33.28	−32.12	1.16	0.001
	22	43	0.039	0.019	0.001	−38.34	−1.11	−39.44	−36.19	3.26	0.002
	23	44	0.068	0.026	0.001	−39.54	−0.69	−40.22	−37.81	2.41	0.002
	24	45	0.061	0.019	0.000	−42.88	−1.11	−43.98	−41.07	2.91	0.001
	25	46	0.082	0.027	0.001	−42.84	−1.20	−44.05	−41.76	2.29	0.001
	26	47	0.068	0.020	0.000	−44.76	−1.69	−46.45	−44.33	2.12	0.002
	27	48	0.082	0.014	0.000	−43.65	−1.17	−44.82	−44.49	0.32	0.005
	28	49	−0.046	0.013	0.001	−44.24	−2.32	−46.56	−46.56	0.00	0.004
	29	50	0.068	0.026	0.001	−42.18	−1.98	−44.15	−44.54	−0.38	0.016
	30	51	0.068	0.026	0.001	−41.56	−1.69	−43.25	−43.22	0.03	0.020
	31	52	0.076	0.026	0.001	−38.63	−1.21	−39.84			
	32	53	0.082	0.021	0.001	−36.89	−0.29	−37.18			
	33	54	0.105	0.016	0.000	−33.19	0.62	−32.57			
	34	55	0.097	0.009	0.001	−30.42	0.68	−29.74			
	35	56	−0.102	0.004	0.000	−26.01	1.18	−24.83			
	36	57	−0.095	−0.002	−0.001	−22.31	1.27	−21.04			
	37	58	−0.102	−0.008	0.000	−17.24	1.73	−15.51			
	38	59	−0.081	−0.009	0.000	−12.68	1.45	−11.23			
	39	60	−0.067	−0.004	−0.001	−7.00	0.63	−6.37			
22	10	32	0.437	0.159	0.015	104.38	−2.54	101.84			
	11	33	0.440	0.082	0.005	85.78	−1.15	84.63			
	12	34	0.048	0.094	−0.002	66.76	−1.47	65.29			
	13	35	−0.005	−0.087	−0.003	51.92	−0.29	51.63			
	14	36	−0.005	−0.087	−0.003	35.65	−1.59	34.06			
	15	37	−0.006	−0.073	−0.002	24.03	−1.48	22.55			
	16	38	−0.059	−0.059	−0.002	10.17	−0.07	10.10			
	17	39	−0.042	−0.032	0.000	1.28	−0.69	0.60			
	18	40	0.032	0.000	0.000	−10.41	−1.19	−11.60	−9.06	2.54	0.011
	19	41	−0.039	0.001	0.000	−16.98	−1.05	−18.03	−15.69	2.34	0.013
	20	42	0.003	0.000	0.000	−26.68	−0.37	−27.05	−25.12	1.93	0.006
	21	43	0.047	0.019	0.001	−31.30	−0.73	−32.02	−29.32	2.70	0.007
	22	44	0.018	0.000	0.000	−39.16	−1.44	−40.60	−37.55	3.05	0.001
	23	45	0.039	0.007	0.000	−40.64	−1.58	−42.22	−39.01	3.21	0.001
	24	46	0.024	0.000	0.000	−45.39	−1.92	−47.30	−44.13	3.18	0.001
	25	47	0.068	0.014	0.000	−45.56	−1.86	−47.42	−44.93	2.49	0.001
	26	48	0.039	0.001	0.000	−48.84	−2.47	−51.31	−48.49	2.83	0.001
	27	49	0.082	0.002	0.000	−47.89	−1.60	−49.48	−48.56	0.93	0.001
	28	50	0.018	0.000	0.000	−49.80	−2.85	−52.65	−51.43	1.23	0.001
	29	51	0.061	0.013	0.001	−47.85	−2.30	−50.14	−49.72	0.42	0.001
	30	52	0.047	0.007	0.000	−48.51	−2.31	−50.81	−49.46	1.35	0.007
	31	53	0.047	0.007	0.000	−45.67	−1.92	−47.59	−46.83	0.76	0.100
	32	54	0.076	0.008	0.001	−45.17	−0.67	−45.85			
	33	55	0.111	−0.002	0.001	−41.54	0.31	−41.23			
	34	56	0.105	−0.008	0.000	−39.98	0.48	−39.49			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
22	35	57	0.105	−0.020	0.001	−35.62	0.88	−34.74			
	36	58	0.090	−0.009	0.000	−33.08	0.83	−32.26			
	37	59	−0.095	−0.008	0.000	−28.06	1.21	−26.85			
	38	60	−0.060	−0.010	0.000	−24.64	0.83	−23.80			
	39	61	0.018	0.000	0.000	−19.00	0.19	−18.81			
	40	62	−0.011	0.000	0.000	−14.76	−0.22	−14.97			
23	11	34	0.441	0.067	0.002	99.99	−1.80	98.19			
	12	35	0.210	0.114	0.003	80.90	−2.16	78.73			
	13	36	0.083	0.097	−0.001	64.48	0.06	64.54			
	14	37	0.119	0.057	0.002	48.14	−0.99	47.16			
	15	38	0.082	−0.018	0.000	34.99	−0.56	34.43			
	16	39	−0.060	−0.019	−0.001	21.02	−0.88	20.15			
	17	40	0.155	0.009	0.001	10.64	−0.87	9.77			
	18	41	0.076	0.002	0.000	−1.21	−0.97	−2.17			
	19	42	−0.060	0.001	0.000	−9.24	−0.91	−10.15			
	20	43	0.003	0.000	0.000	−19.16	−0.64	−19.80			
	21	44	0.076	0.032	0.000	−25.19	−0.83	−26.02			
	22	45	0.032	0.006	0.000	−33.33	−1.85	−35.18	−31.88	3.31	0.017
	23	46	0.199	0.116	0.004	−36.94	−1.08	−38.01	−37.08	0.94	0.001
	24	47	0.199	0.090	0.002	−42.74	−0.67	−43.41	−42.00	1.40	0.001
	25	48	0.229	0.076	0.002	−44.24	−1.26	−45.50	−44.47	1.03	0.003
	26	49	0.133	0.031	−0.001	−47.88	−2.29	−50.17	−47.96	2.22	0.001
	27	50	0.105	0.010	0.000	−48.21	−1.71	−49.92	−49.22	0.70	0.002
	28	51	0.032	0.006	0.000	−50.51	−2.99	−53.50	−52.20	1.30	0.002
	29	52	0.097	0.028	0.001	−49.79	−2.22	−52.01	−51.44	0.58	0.002
	30	53	0.126	0.036	0.000	−50.85	−1.98	−52.83	−51.85	0.98	0.003
	31	54	0.154	0.040	−0.001	−49.20	−0.96	−50.16	−49.89	0.27	0.015
	32	55	0.155	0.027	−0.001	−49.10	−0.45	−49.54	−49.15	0.39	0.100
	33	56	0.163	0.004	0.001	−46.61	0.29	−46.33			
	34	57	0.163	−0.003	0.001	−45.44	0.56	−44.88			
	35	58	0.155	−0.016	0.000	−42.19	1.09	−41.10			
	36	59	0.141	−0.005	0.001	−40.02	0.95	−39.07			
	37	60	−0.123	−0.018	0.001	−36.08	1.35	−34.72			
	38	61	−0.102	−0.019	−0.001	−33.00	1.11	−31.89			
	39	62	0.061	−0.005	0.001	−28.40	1.06	−27.34			
	40	63	0.039	0.001	0.000	−24.49	0.13	−24.35			
	41	64	0.090	0.015	0.000	−19.29	0.80	−18.50			
24	12	36	0.211	0.174	0.001	94.06	−2.14	91.91			
	13	37	0.192	0.125	0.002	77.01	−1.73	75.28			
	14	38	0.191	0.080	0.003	59.04	−1.31	57.73			
	15	39	0.173	0.033	0.002	45.26	−1.12	44.14			
	16	40	0.268	−0.011	−0.002	29.72	−0.64	29.08			
	17	41	0.185	−0.006	0.000	18.76	−1.13	17.64			
	18	42	0.090	−0.003	0.001	5.40	−1.09	4.31			
	19	43	−0.067	−0.004	−0.001	−3.13	−0.95	−4.08			
	20	44	0.003	0.000	0.000	−14.52	−0.68	−15.19	−13.45	1.74	0.030
	21	45	0.076	0.026	0.001	−20.96	−0.83	−21.79	−19.41	2.38	0.100

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
24	22	46	0.032	0.000	0.000	−30.51	−1.82	−32.33	−29.47	2.86	0.020
	23	47	0.229	0.102	0.004	−35.17	−0.91	−36.08	−34.55	1.53	0.014
	24	48	0.229	0.076	0.002	−43.01	−0.41	−43.43	−42.82	0.61	0.007
	25	49	0.244	0.060	0.002	−44.78	−1.07	−45.85	−45.33	0.52	0.003
	26	50	0.148	0.026	0.000	−49.74	−2.27	−52.01	−50.26	1.76	0.002
	27	51	0.111	0.004	0.000	−50.27	−1.74	−52.01	−51.45	0.56	0.002
	28	52	0.024	0.000	0.000	−53.85	−3.09	−56.94	−55.41	1.53	0.002
	29	53	0.105	0.022	0.000	−53.29	−2.29	−55.58	−55.28	0.29	0.002
	30	54	0.140	0.032	0.000	−55.58	−2.02	−57.60	−56.93	0.68	0.002
	31	55	0.170	0.029	0.000	−54.06	−1.13	−55.18	−55.10	0.08	0.002
	32	56	0.170	0.017	0.001	−55.16	−0.62	−55.78	−55.29	0.49	0.010
	33	57	0.178	−0.007	0.000	−52.77	0.04	−52.73			
	34	58	0.179	−0.013	0.000	−52.76	0.30	−52.46			
	35	59	0.164	−0.027	−0.001	−49.59	0.84	−48.75			
	36	60	0.163	−0.015	0.000	−48.56	0.65	−47.92			
	37	61	0.305	0.041	0.002	−44.67	1.15	−43.52			
	38	62	−0.095	−0.014	0.000	−42.71	0.87	−41.84			
	39	63	0.313	0.049	0.002	−38.16	2.03	−36.13			
	40	64	0.024	0.000	0.000	−35.32	−0.19	−35.51			
	41	65	0.090	0.015	0.000	−30.17	0.48	−29.69			
	42	66	0.011	0.000	0.000	−26.52	−0.45	−26.97			
	43	67	0.068	0.014	0.000	−20.81	0.01	−20.80			
25	13	38	0.210	0.083	0.003	90.96	−2.30	88.66			
	14	39	0.211	0.039	0.002	72.91	−1.85	71.06			
	15	40	0.276	−0.009	−0.002	57.67	−1.51	56.16			
	16	41	0.278	−0.034	−0.006	42.05	−1.10	40.96			
	17	42	0.254	−0.026	−0.004	29.66	−0.87	28.79			
	18	43	0.148	0.002	0.001	16.18	−1.56	14.62			
	19	44	−0.081	−0.009	0.000	6.26	−1.28	4.97			
	20	45	0.003	0.000	0.000	−5.29	−1.32	−6.61			
	21	46	0.097	0.034	0.001	−13.10	−1.08	−14.18			
	22	47	0.090	0.015	0.000	−22.86	−1.90	−24.76			
	23	48	0.236	0.071	0.002	−28.84	−1.12	−29.96	−29.21	0.75	0.021
	24	49	0.244	0.053	0.002	−36.95	−1.28	−38.23	−37.61	0.62	0.024
	25	50	0.252	0.036	0.002	−40.69	−1.41	−42.10	−42.63	−0.52	0.002
	26	51	0.222	0.018	0.002	−46.62	−2.22	−48.84	−48.24	0.60	0.002
	27	52	0.141	0.007	0.000	−48.39	−2.52	−50.90	−50.70	0.20	0.002
	28	53	0.047	0.007	0.000	−52.31	−3.16	−55.47	−54.69	0.79	0.002
	29	54	0.126	0.030	0.000	−52.95	−2.58	−55.53	−55.55	−0.02	0.002
	30	55	0.178	0.030	0.000	−55.60	−2.05	−57.65	−57.71	−0.06	0.002
	31	56	0.200	0.015	0.001	−55.24	−1.30	−56.53	−56.91	−0.37	0.002
	32	57	0.200	0.002	0.001	−56.70	−0.79	−57.49	−57.49	0.00	0.003
	33	58	0.209	−0.021	−0.002	−55.44	−0.21	−55.65	−55.83	−0.19	0.030
	34	59	0.209	−0.027	−0.002	−55.79	0.09	−55.71	−55.48	0.23	0.029
	35	60	0.194	−0.035	−0.003	−53.71	0.30	−53.41	−52.90	0.51	0.100
	36	61	0.231	−0.018	−0.002	−53.04	0.46	−52.58			
	37	62	0.283	0.011	0.000	−50.21	0.88	−49.33			
	38	63	0.267	0.014	0.002	−48.58	0.67	−47.91			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
25	39	64	0.298	0.020	0.000	−45.06	1.04	−44.03			
	40	65	0.061	0.001	0.000	−42.55	−0.31	−42.86			
	41	66	0.105	0.016	0.000	−38.39	0.38	−38.01			
	42	67	0.032	0.006	0.000	−35.06	−0.94	−35.99			
	43	68	0.105	0.022	0.000	−30.31	−0.34	−30.65			
	44	69	0.133	0.025	0.000	−26.21	−0.69	−26.90			
	45	70	0.148	0.033	−0.001	−20.91	−1.51	−22.42			
26	14	40	−0.599	0.180	−0.015	85.55	−4.03	81.52			
	15	41	0.280	−0.071	−0.007	69.73	−2.04	67.69			
	16	42	0.282	−0.089	−0.008	52.60	−1.73	50.87			
	17	43	0.241	−0.065	−0.006	39.66	−1.61	38.05			
	18	44	0.090	−0.009	0.000	24.71	−1.70	23.02			
	19	45	−0.067	−0.004	−0.001	14.28	−1.66	12.62			
	20	46	0.003	0.000	0.000	1.33	−1.59	−0.27			
	21	47	0.068	0.020	0.000	−6.92	−1.48	−8.40			
	22	48	0.032	0.000	0.000	−18.05	−2.53	−20.58	−18.13	2.45	0.110
	23	49	0.126	0.024	0.000	−24.40	−2.14	−26.55	−24.58	1.97	0.160
	24	50	0.140	0.026	0.000	−33.83	−1.74	−35.58	−34.47	1.11	0.060
	25	51	0.208	0.016	0.001	−38.54	−2.25	−40.79	−40.22	0.57	0.015
	26	52	0.119	0.005	0.000	−46.38	−2.84	−49.23	−48.33	0.89	0.010
	27	53	0.105	−0.002	0.001	−48.40	−2.30	−50.70	−50.94	−0.25	0.002
	28	54	0.024	0.000	0.000	−53.56	−3.37	−56.93	−56.25	0.68	0.001
	29	55	0.090	0.015	0.000	−54.39	−2.66	−57.05	−57.47	−0.42	0.001
	30	56	0.126	0.012	0.000	−58.25	−2.36	−60.60	−60.60	0.00	0.002
	31	57	0.170	0.004	0.001	−58.04	−1.55	−59.59	−60.18	−0.59	0.002
	32	58	0.179	−0.013	0.000	−60.67	−1.05	−61.72	−62.15	−0.43	0.002
	33	59	0.202	−0.040	−0.003	−59.53	−0.48	−60.01	−60.66	−0.65	0.002
	34	60	0.203	−0.052	−0.004	−61.03	−0.17	−61.20	−61.41	−0.20	0.004
	35	61	0.164	−0.045	−0.001	−59.04	0.35	−58.69	−58.92	−0.23	0.020
	36	62	0.164	−0.039	−0.002	−59.48	0.14	−59.34	−58.90	0.44	0.015
	37	63	0.105	−0.020	0.001	−56.73	0.14	−56.58	−55.19	1.39	0.060
	38	64	−0.088	−0.015	−0.001	−56.18	0.03	−56.15			
	39	65	0.024	0.000	0.000	−52.73	−0.37	−53.10			
	40	66	0.011	0.000	0.000	−51.27	−0.77	−52.03			
	41	67	0.068	0.008	0.000	−47.17	−0.33	−47.49			
	42	68	0.003	0.000	0.000	−44.85	−1.02	−45.87			
	43	69	0.053	0.007	0.000	−40.15	−0.44	−40.60			
	44	70	0.039	0.001	0.000	−37.06	−1.62	−38.68			
	45	71	0.082	0.009	0.001	−31.80	−1.39	−33.19			
	46	72	0.053	0.001	0.000	−27.97	−1.89	−29.86			
	47	73	0.090	0.003	0.000	−22.18	−3.34	−25.53			
	48	74	0.024	0.000	0.000	−17.68	−4.18	−21.85			
	49	75	0.068	−0.010	0.000	−11.40	−4.42	−15.82			
	50	76	0.011	0.000	0.000	−6.26	−5.85	−12.11			
	51	77	0.053	0.013	0.001	0.47	−5.14	−4.66			
	52	78	0.024	0.000	0.000	6.20	−4.84	1.36			
27	15	42	−0.275	0.157	−0.006	83.49	−3.29	80.20			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
27	16	43	0.323	−0.112	−0.013	66.29	−3.09	63.19			
	17	44	0.149	−0.034	0.000	51.97	−2.36	49.62			
	18	45	0.105	−0.020	0.001	36.94	−1.71	35.23			
	19	46	0.090	−0.015	0.001	25.17	−1.97	23.20			
	20	47	0.047	−0.005	0.000	12.09	−2.16	9.93			
	21	48	0.090	0.015	0.000	2.53	−1.36	1.18			
	22	49	0.082	−0.004	0.001	−8.76	−1.74	−10.50			
	23	50	0.105	0.004	0.000	−16.39	−1.77	−18.16			
	24	51	0.105	0.004	0.000	−26.02	−2.00	−28.03			
	25	52	0.133	0.006	0.000	−31.98	−2.62	−34.60	−34.29	0.31	0.022
	26	53	0.105	−0.002	0.001	−40.06	−2.56	−42.62	−42.64	−0.02	0.018
	27	54	0.105	−0.008	0.000	−43.93	−2.51	−46.44	−48.01	−1.57	0.001
	28	55	0.061	−0.005	0.001	−49.98	−2.74	−52.72	−54.02	−1.31	0.001
	29	56	0.097	0.009	0.001	−51.99	−2.64	−54.63	−56.04	−1.41	0.003
	30	57	0.105	0.004	0.000	−56.15	−2.15	−58.30	−59.34	−1.04	0.002
	31	58	0.133	−0.006	0.001	−57.08	−1.78	−58.87	−59.84	−0.98	0.002
	32	59	0.133	−0.012	0.000	−60.04	−1.16	−61.20	−62.23	−1.03	0.002
	33	60	0.156	−0.028	−0.001	−60.01	−0.75	−60.75	−61.65	−0.89	0.002
	34	61	0.142	−0.029	0.000	−61.83	−0.31	−62.13	−62.90	−0.76	0.002
	35	62	0.142	−0.035	0.000	−60.92	0.13	−60.79	−61.42	−0.63	0.019
	36	63	0.112	−0.026	0.001	−61.68	0.28	−61.40	−61.84	−0.44	0.020
	37	64	0.105	−0.020	0.001	−59.98	0.40	−59.58	−59.79	−0.22	0.020
	38	65	0.097	−0.015	0.001	−59.75	−0.12	−59.87	−59.16	0.71	0.050
	39	66	0.076	−0.010	0.000	−57.31	0.35	−56.96			
	40	67	0.068	−0.010	0.000	−56.17	−0.12	−56.28			
	41	68	0.082	0.002	0.000	−53.05	0.03	−53.02			
	42	69	0.061	−0.005	0.001	−51.04	−0.63	−51.67			
	43	70	0.076	0.008	0.001	−47.30	−0.47	−47.77			
	44	71	0.076	0.002	0.000	−44.49	−1.14	−45.63			
	45	72	0.090	0.003	0.000	−40.16	−1.60	−41.76			
	46	73	0.082	−0.004	0.001	−36.60	−2.31	−38.92			
	47	74	0.090	−0.003	0.001	−31.73	−3.15	−34.87			
	48	75	0.061	−0.011	0.000	−27.48	−3.55	−31.02			
	49	76	0.076	−0.016	0.001	−22.09	−4.48	−26.57			
	50	77	0.032	−0.006	0.000	−17.18	−6.04	−23.23			
	51	78	0.061	0.019	0.000	−11.31	−5.01	−16.32			
	52	79	0.053	0.007	0.000	−5.80	−4.51	−10.31			
	53	80	0.076	0.008	0.001	0.53	−3.53	−3.00			
28	16	44	−0.253	0.116	−0.004	78.53	−3.39	75.14			
	17	45	−0.211	0.028	−0.001	63.70	−2.52	61.18			
	18	46	0.032	0.000	0.000	47.26	−2.53	44.73			
	19	47	−0.053	−0.005	0.000	34.99	−2.37	32.62			
	20	48	0.003	0.000	0.000	20.54	−2.32	18.22			
	21	49	0.039	0.019	0.001	10.53	−2.27	8.27			
	22	50	0.018	0.000	0.000	−2.08	−2.77	−4.85			
	23	51	0.032	0.006	0.000	−10.11	−2.78	−12.88			
	24	52	0.024	0.000	0.000	−21.02	−2.89	−23.91	−22.64	1.27	0.070
	25	53	0.039	0.007	0.000	−27.31	−3.22	−30.53	−29.38	1.15	0.160

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
28	26	54	0.024	0.000	0.000	−36.64	−3.39	−40.03	−39.21	0.82	0.050
	27	55	0.061	0.001	0.000	−41.40	−2.64	−44.03	−45.33	−1.30	0.011
	28	56	0.011	0.000	0.000	−49.24	−3.36	−52.60	−53.90	−1.30	0.011
	29	57	0.039	0.007	0.000	−51.48	−3.22	−54.70	−56.08	−1.38	0.003
	30	58	0.032	0.000	0.000	−56.82	−2.85	−59.67	−60.22	−0.56	0.002
	31	59	0.024	0.000	0.000	−57.94	−2.49	−60.43	−61.15	−0.73	0.002
	32	60	0.061	0.007	0.000	−62.03	−1.14	−63.18	−64.47	−1.29	0.002
	33	61	−0.108	0.022	0.000	−62.15	−1.29	−63.44	−64.22	−0.78	0.002
	34	62	0.076	−0.004	0.001	−65.09	−0.58	−65.66	−66.74	−1.08	0.002
	35	63	−0.109	0.004	0.000	−64.29	−0.56	−64.85	−65.51	−0.66	0.002
	36	64	−0.088	−0.003	−0.001	−66.15	−0.41	−66.56	−67.10	−0.54	0.002
	37	65	−0.095	−0.008	0.000	−64.54	0.02	−64.52	−65.12	−0.61	0.002
	38	66	−0.039	−0.005	0.000	−65.37	−0.59	−65.96	−66.03	−0.07	0.016
	39	67	0.003	0.000	0.000	−63.01	−0.38	−63.39	−63.74	−0.35	0.019
	40	68	−0.003	0.000	0.000	−62.90	−0.71	−63.61	−63.48	0.13	0.017
	41	69	−0.032	−0.005	0.000	−59.84	−1.01	−60.85	−60.46	0.39	0.150
	42	70	−0.003	0.000	0.000	−58.84	−1.17	−60.01			
	43	71	0.018	0.006	0.000	−55.15	−1.56	−56.71			
	44	72	0.011	0.000	0.000	−53.33	−2.03	−55.35			
	45	73	0.024	0.000	0.000	−49.04	−2.44	−51.48			
	46	74	0.018	0.000	0.000	−46.45	−3.17	−49.62			
	47	75	0.032	0.006	0.000	−41.61	−4.01	−45.63			
	48	76	0.011	0.000	0.000	−38.30	−4.82	−43.12			
	49	77	0.039	−0.011	0.001	−32.94	−5.75	−38.69			
	50	78	0.003	0.000	0.000	−28.95	−6.68	−35.64			
	51	79	0.032	0.012	0.000	−23.11	−6.25	−29.36			
	52	80	0.011	0.000	0.000	−18.50	−5.56	−24.06			
	53	81	0.024	0.006	0.000	−12.20	−4.66	−16.86			
	54	82	0.011	0.000	0.000	−7.00	−3.76	−10.76			
29	17	46	−0.225	−0.021	0.002	77.33	−2.48	74.85			
	18	47	−0.212	−0.046	0.002	60.81	−2.97	57.85			
	19	48	−0.095	−0.014	0.000	47.26	−2.54	44.72			
	20	49	0.024	0.000	0.000	32.72	−3.17	29.55			
	21	50	0.082	0.039	0.001	21.45	−2.24	19.20			
	22	51	0.068	0.020	0.000	8.71	−2.61	6.11			
	23	52	0.105	0.041	0.001	−0.55	−2.38	−2.93			
	24	53	0.111	0.035	0.001	−11.63	−2.56	−14.19			
	25	54	0.133	0.037	−0.001	−19.12	−2.83	−21.95			
	26	55	0.105	0.028	0.001	−28.65	−2.90	−31.55			
	27	56	0.105	0.016	0.000	−34.58	−2.76	−37.35	−38.58	−1.24	0.017
	28	57	0.053	0.019	0.001	−42.66	−3.08	−45.74	−47.35	−1.61	0.050
	29	58	0.105	0.041	0.001	−46.64	−2.71	−49.35	−51.66	−2.32	0.003
	30	59	0.119	0.042	0.000	−52.80	−2.14	−54.93	−56.35	−1.42	0.002
	31	60	0.148	0.033	−0.001	−55.04	−1.53	−56.57	−58.34	−1.77	0.003
	32	61	0.140	0.026	0.000	−59.41	−0.94	−60.35	−61.98	−1.63	0.002
	33	62	0.155	0.003	0.001	−60.61	−0.73	−61.34	−62.80	−1.46	0.004
	34	63	0.141	0.001	0.001	−63.84	−0.28	−64.12	−65.58	−1.46	0.002
	35	64	0.133	−0.006	0.001	−64.11	0.08	−64.03	−65.42	−1.39	0.002

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
29	36	65	0.111	0.004	0.000	−66.26	0.12	−66.14	−67.26	−1.12	0.002
	37	66	−0.137	−0.010	0.000	−65.68	0.46	−65.21	−66.25	−1.04	0.002
	38	67	−0.109	−0.013	0.000	−66.81	0.36	−66.45	−67.30	−0.85	0.008
	39	68	0.076	0.014	0.000	−65.45	−0.01	−65.46	−65.54	−0.08	0.050
	40	69	0.076	0.020	0.000	−65.63	0.04	−65.59	−65.74	−0.15	0.008
	41	70	0.090	0.027	0.000	−63.55	0.17	−63.38	−63.39	−0.01	0.110
	42	71	0.076	0.026	0.001	−62.84	−0.28	−63.12			
	43	72	0.090	0.033	0.001	−60.10	−0.32	−60.42			
	44	73	0.090	0.033	0.001	−58.56	−0.98	−59.53			
	45	74	0.105	0.034	0.000	−55.19	−1.55	−56.74			
	46	75	0.097	0.028	0.001	−52.87	−2.20	−55.07			
	47	76	0.105	0.028	0.001	−48.93	−2.99	−51.92			
	48	77	0.076	0.020	0.000	−45.87	−3.58	−49.45			
	49	78	0.082	0.014	0.000	−41.39	−4.14	−45.53			
	50	79	0.047	0.025	0.000	−37.65	−5.46	−43.11			
	51	80	0.076	0.051	0.001	−32.66	−4.68	−37.34			
	52	81	0.082	0.051	0.000	−28.27	−4.19	−32.46			
	53	82	0.105	0.053	0.001	−22.81	−3.35	−26.16			
	54	83	0.111	0.060	0.000	−17.82	−2.63	−20.45			
	55	84	0.133	0.056	−0.001	−11.90	−1.82	−13.72			
30	19	49	−0.095	−0.014	0.000	58.74	−2.25	56.49			
	20	50	0.003	0.000	0.000	42.88	−2.61	40.27			
	21	51	0.082	0.039	0.001	31.16	−2.13	29.03			
	22	52	0.047	0.007	0.000	17.14	−2.92	14.22			
	23	53	0.162	0.059	−0.001	7.48	−2.07	5.40			
	24	54	0.170	0.054	−0.001	−4.84	−2.16	−7.00			
	25	55	0.192	0.038	0.001	−12.69	−2.05	−14.74			
	26	56	0.155	0.027	−0.001	−23.43	−2.50	−25.93	−26.13	−0.20	0.080
	27	57	0.119	0.011	0.000	−29.67	−2.44	−32.11	−32.70	−0.59	0.120
	28	58	0.032	0.006	0.000	−38.92	−3.23	−42.15	−42.21	−0.06	0.100
	29	59	0.126	0.043	0.000	−43.73	−2.24	−45.97	−47.26	−1.29	0.040
	30	60	0.162	0.041	−0.001	−51.58	−1.35	−52.93	−54.19	−1.25	0.011
	31	61	0.184	0.031	0.000	−54.03	−0.60	−54.64	−56.34	−1.70	0.016
	32	62	0.184	0.019	0.001	−59.53	−0.18	−59.71	−61.17	−1.46	0.010
	33	63	0.193	−0.011	0.000	−60.90	−0.19	−61.09	−62.21	−1.12	0.002
	34	64	0.185	−0.012	0.000	−65.22	0.17	−65.05	−66.00	−0.95	0.002
	35	65	0.163	−0.021	−0.001	−65.63	0.53	−65.10	−65.91	−0.81	0.002
	36	66	0.163	−0.009	0.000	−68.84	0.30	−68.54	−68.90	−0.35	0.002
	37	67	−0.164	−0.013	0.001	−68.37	0.84	−67.53	−67.88	−0.35	0.002
	38	68	−0.144	−0.015	0.001	−70.54	0.66	−69.88	−70.01	−0.12	0.002
	39	69	−0.157	−0.020	0.001	−69.28	0.82	−68.46	−68.42	0.04	0.002
	40	70	0.018	0.000	0.000	−70.47	−0.22	−70.70	−69.56	1.14	0.003
	41	71	0.097	0.022	0.001	−68.47	0.25	−68.22	−67.32	0.90	0.011
	42	72	0.032	0.006	0.000	−68.75	−0.60	−69.35	−68.13	1.22	0.006
	43	73	0.097	0.028	0.001	−66.07	−0.27	−66.34	−65.41	0.93	0.040
	44	74	0.111	0.029	0.000	−65.50	−0.76	−66.26	−65.71	0.55	0.019
	45	75	0.133	0.037	−0.001	−62.19	−1.34	−63.53	−62.53	1.00	0.090
	46	76	0.119	0.023	0.000	−60.81	−2.18	−62.99	−62.29	0.70	0.170

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
30	47	77	0.126	0.018	0.000	−56.91	−2.81	−59.72			
	48	78	0.053	0.007	0.000	−54.78	−3.14	−57.92			
	49	79	0.082	−0.004	0.001	−50.34	−3.90	−54.24			
	50	80	0.024	0.000	0.000	−47.50	−5.30	−52.79	−51.89	0.90	0.360
	51	81	0.076	0.032	0.000	−42.54	−4.45	−46.99			
	52	82	0.076	0.032	0.000	−39.04	−4.06	−43.10			
	53	83	0.133	0.062	−0.001	−33.60	−3.03	−36.64			
	54	84	0.148	0.057	−0.001	−29.48	−2.22	−31.70			
	55	85	0.170	0.054	−0.001	−23.58	−1.30	−24.89			
	56	86	0.184	0.050	0.000	−18.88	−0.73	−19.61			
31	20	51	0.011	0.000	0.000	56.37	−2.63	53.73			
	21	52	0.097	0.034	0.001	43.43	−1.88	41.55			
	22	53	0.119	0.023	0.000	29.31	−2.15	27.16			
	23	54	0.177	0.049	−0.001	18.45	−1.40	17.05			
	24	55	0.184	0.031	0.000	6.00	−1.56	4.45			
	25	56	0.214	0.017	0.001	−3.02	−1.63	−4.65			
	26	57	0.192	0.007	0.001	−13.91	−1.84	−15.74			
	27	58	0.155	0.009	0.001	−21.29	−2.14	−23.43			
	28	59	0.068	0.008	0.000	−30.73	−2.62	−33.35			
	29	60	0.154	0.033	−0.001	−36.66	−1.77	−38.43			
	30	61	0.184	0.025	0.001	−44.73	−0.92	−45.65			
	31	62	0.208	0.003	0.001	−48.82	−0.50	−49.33	−52.00	−2.67	0.028
	32	63	0.208	−0.009	−0.001	−55.08	−0.09	−55.17	−56.69	−1.52	0.100
	33	64	0.216	−0.032	−0.003	−57.52	0.09	−57.43	−58.84	−1.41	0.004
	34	65	0.216	−0.032	−0.003	−62.09	0.42	−61.67	−62.65	−0.98	0.002
	35	66	0.202	−0.034	−0.003	−63.54	0.49	−63.05	−63.72	−0.68	0.003
	36	67	0.209	−0.027	−0.002	−67.02	0.61	−66.41	−66.88	−0.47	0.002
	37	68	−0.212	−0.012	0.002	−67.56	0.84	−66.72	−67.08	−0.37	0.002
	38	69	−0.199	−0.014	0.002	−70.01	0.96	−69.04	−69.32	−0.28	0.003
	39	70	−0.192	−0.026	0.003	−69.73	1.30	−68.43	−68.90	−0.48	0.003
	40	71	−0.199	−0.020	0.003	−71.20	1.00	−70.20	−70.14	0.06	0.002
	41	72	−0.205	−0.030	0.003	−70.16	1.04	−69.11	−68.59	0.53	0.002
	42	73	0.148	0.020	0.000	−70.71	0.38	−70.33	−69.71	0.63	0.006
	43	74	0.148	0.026	0.000	−68.97	0.26	−68.70	−68.06	0.64	0.070
	44	75	0.155	0.021	0.000	−68.66	−0.09	−68.74	−68.47	0.28	0.007
	45	76	0.155	0.027	−0.001	−66.26	−0.45	−66.71	−66.44	0.27	0.150
	46	77	0.148	0.014	0.000	−65.14	−1.26	−66.40			
	47	78	0.148	0.008	0.001	−62.14	−1.94	−64.08			
	48	79	0.119	−0.001	0.001	−60.26	−2.88	−63.14	−62.72	0.42	0.120
	49	80	0.105	−0.008	0.000	−56.68	−3.22	−59.90	−59.38	0.52	0.300
	50	81	0.047	0.001	0.000	−54.08	−4.21	−58.30	−57.99	0.31	0.190
	51	82	0.097	0.028	0.001	−49.98	−3.68	−53.65			
	52	83	0.126	0.036	0.000	−46.70	−2.94	−49.65			
	53	84	0.148	0.039	−0.001	−42.09	−1.93	−44.02			
	54	85	0.162	0.034	−0.001	−38.19	−1.21	−39.39			
	55	86	0.178	0.030	0.000	−33.10	−0.40	−33.50			
	56	87	0.192	0.020	0.001	−28.60	0.07	−28.53			
	57	88	0.207	0.028	0.002	−23.06	0.66	−22.41			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
32	21	53	0.105	0.028	0.001	54.75	−1.32	53.43			
	22	54	0.111	0.011	0.000	39.38	−1.62	37.76			
	23	55	0.184	0.037	0.000	28.12	−1.16	26.96			
	24	56	0.200	0.015	0.001	14.47	−1.26	13.21			
	25	57	0.223	0.000	0.000	5.08	−1.26	3.82			
	26	58	0.201	−0.016	−0.002	−6.99	−1.43	−8.42			
	27	59	0.155	−0.016	0.000	−14.70	−1.74	−16.43			
	28	60	0.090	0.003	0.000	−25.28	−2.22	−27.50			
	29	61	0.155	0.015	0.001	−31.49	−1.50	−32.98			
	30	62	0.193	0.001	0.001	−40.67	−0.64	−41.31			
	31	63	0.208	−0.009	−0.001	−45.53	−0.16	−45.69			
	32	64	0.209	−0.027	−0.002	−53.40	0.31	−53.09	−54.43	−1.34	0.250
	33	65	0.217	−0.044	−0.004	−56.04	0.51	−55.53	−56.41	−0.88	0.100
	34	66	0.218	−0.056	−0.005	−61.68	0.84	−60.84	−61.62	−0.78	0.030
	35	67	−0.279	0.017	0.002	−63.29	0.85	−62.44	−62.66	−0.22	0.005
	36	68	0.217	−0.044	−0.004	−67.81	0.75	−67.05	−66.98	0.08	0.006
	37	69	−0.225	−0.010	0.002	−68.49	1.37	−67.12	−67.10	0.02	0.004
	38	70	−0.212	−0.018	0.002	−71.95	1.41	−70.54	−70.56	−0.02	0.002
	39	71	−0.205	−0.024	0.003	−71.78	1.71	−70.07	−69.91	0.17	0.002
	40	72	−0.205	−0.024	0.003	−74.25	1.52	−72.72	−72.58	0.14	0.001
	41	73	−0.212	−0.029	0.004	−73.29	1.57	−71.73	−71.29	0.43	0.001
	42	74	−0.205	−0.024	0.003	−74.82	0.94	−73.89	−73.42	0.46	0.001
	43	75	0.126	0.012	0.000	−73.15	0.83	−72.32	−71.86	0.46	0.002
	44	76	0.148	0.008	0.001	−73.79	0.31	−73.49	−73.21	0.27	0.002
	45	77	0.148	0.014	0.000	−71.46	−0.04	−71.50	−71.22	0.29	0.002
	46	78	0.148	0.002	0.001	−71.27	−0.84	−72.11	−71.86	0.25	0.004
	47	79	0.155	−0.009	0.000	−68.32	−1.46	−69.78	−69.49	0.29	0.090
	48	80	0.119	−0.007	0.001	−67.35	−2.35	−69.70	−69.38	0.32	0.030
	49	81	0.105	−0.014	0.000	−63.82	−2.63	−66.46	−66.31	0.15	0.120
	50	82	0.039	0.001	0.000	−62.11	−3.69	−65.81	−65.38	0.43	0.140
	51	83	0.090	0.021	0.001	−58.04	−3.01	−61.05			
	52	84	0.111	0.023	0.000	−55.64	−2.46	−58.10			
	53	85	0.148	0.026	0.000	−51.06	−1.54	−52.61			
	54	86	0.162	0.022	0.001	−48.01	−0.85	−48.86			
	55	87	0.184	0.012	0.001	−42.96	−0.17	−43.13			
	56	88	0.193	0.001	0.001	−39.29	0.25	−39.03			
	57	89	0.215	−0.014	−0.002	−33.78	0.60	−33.18			
	58	90	0.215	−0.002	0.000	−29.53	1.09	−28.44			
	59	91	0.311	0.107	0.006	−23.59	1.11	−22.49			
	60	92	0.326	0.111	0.008	−18.81	1.10	−17.70			
	61	93	0.334	0.100	0.007	−12.46	1.35	−11.11			
33	22	55	0.155	−0.016	0.000	52.83	−0.88	51.95			
	23	56	0.193	−0.005	0.000	40.41	−0.73	39.69			
	24	57	0.209	−0.021	−0.002	26.66	−0.91	25.75			
	25	58	0.232	−0.030	−0.004	16.14	−0.94	15.19			
	26	59	0.225	−0.049	−0.005	3.94	−1.08	2.86			
	27	60	0.172	−0.038	−0.002	−4.88	−1.49	−6.37			
	28	61	−0.198	0.043	−0.001	−15.61	−1.53	−17.14			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
33	29	62	0.163	−0.009	0.000	−22.91	−1.36	−24.26			
	30	63	0.209	−0.027	−0.002	−32.27	−0.56	−32.83			
	31	64	0.224	−0.037	−0.004	−38.20	−0.09	−38.29			
	32	65	0.225	−0.055	−0.005	−46.26	0.39	−45.88			
	33	66	0.234	−0.072	−0.007	−50.46	0.63	−49.83	−52.07	−2.24	0.060
	34	67	0.235	−0.084	−0.007	−56.82	1.06	−55.75	−56.65	−0.90	0.100
	35	68	−0.299	0.004	0.000	−59.45	0.92	−58.53	−58.88	−0.35	0.100
	36	69	−0.273	−0.001	0.001	−64.20	1.00	−63.20	−63.08	0.12	0.030
	37	70	−0.252	−0.005	0.001	−65.87	1.40	−64.47	−64.34	0.13	0.050
	38	71	−0.247	−0.012	0.001	−69.58	1.42	−68.16	−67.89	0.27	0.004
	39	72	−0.232	−0.020	0.002	−70.38	1.74	−68.64	−68.23	0.41	0.004
	40	73	−0.232	−0.020	0.002	−73.10	1.63	−71.47	−70.96	0.52	0.004
	41	74	−0.240	−0.030	0.001	−73.09	1.72	−71.38	−70.86	0.51	0.002
	42	75	−0.232	−0.025	0.001	−74.87	1.26	−73.61	−73.04	0.58	0.002
	43	76	−0.247	−0.034	0.001	−74.13	1.09	−73.04	−72.29	0.75	0.002
	44	77	0.163	−0.015	0.000	−75.02	0.59	−74.43	−73.92	0.52	0.002
	45	78	0.163	−0.009	0.000	−73.59	0.35	−73.24	−72.82	0.42	0.010
	46	79	0.163	−0.021	−0.001	−73.65	−0.33	−73.98	−73.64	0.34	0.006
	47	80	0.164	−0.027	−0.001	−71.58	−0.93	−72.51	−72.17	0.35	0.024
	48	81	0.149	−0.034	0.000	−70.85	−1.68	−72.53	−72.54	0.00	0.006
	49	82	0.112	−0.020	0.001	−68.18	−2.20	−70.38	−70.08	0.31	0.025
	50	83	0.053	−0.005	0.001	−66.71	−2.75	−69.46	−69.88	−0.42	0.220
	51	84	0.105	0.004	0.000	−63.48	−2.58	−66.06			
	52	85	0.127	0.000	0.001	−61.31	−1.90	−63.21			
	53	86	0.155	0.003	0.001	−57.55	−1.03	−58.58			
	54	87	0.171	−0.008	0.000	−54.71	−0.33	−55.05			
	55	88	0.193	−0.011	0.000	−50.46	0.28	−50.18			
	56	89	0.201	−0.022	−0.002	−47.00	0.75	−46.26			
	57	90	0.216	−0.032	−0.003	−42.28	1.02	−41.25			
	58	91	0.216	−0.032	−0.003	−38.23	1.42	−36.80			
	59	92	0.318	0.109	0.007	−33.06	1.59	−31.47			
	60	93	0.334	0.106	0.009	−28.45	1.66	−26.79			
	61	94	0.342	0.095	0.008	−22.86	1.89	−20.96			
	62	95	0.343	0.076	0.006	−17.73	1.98	−15.75			
	63	96	0.350	0.065	0.003	−11.73	2.32	−9.41			
34	23	57	0.208	−0.003	0.000	51.63	−0.61	51.02			
	24	58	0.224	−0.025	−0.002	36.70	−0.78	35.92			
	25	59	0.247	−0.027	−0.004	25.82	−0.77	25.04			
	26	60	0.234	−0.060	−0.006	12.47	−0.91	11.57			
	27	61	0.172	−0.044	−0.002	3.32	−1.30	2.02			
	28	62	−0.170	0.039	−0.001	−8.53	−1.44	−9.96			
	29	63	0.163	−0.015	0.000	−16.12	−1.17	−17.29			
	30	64	0.216	−0.032	−0.003	−26.57	−0.40	−26.97			
	31	65	0.225	−0.043	−0.005	−32.76	0.10	−32.65			
	32	66	0.234	−0.066	−0.006	−41.89	0.60	−41.29			
	33	67	0.235	−0.084	−0.007	−46.81	0.90	−45.91			
	34	68	0.237	−0.102	−0.009	−54.69	1.25	−53.44			
	35	69	−0.320	0.004	0.000	−57.51	1.27	−56.23	−56.30	−0.07	0.030

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
34	36	70	−0.293	0.003	0.000	−63.28	1.21	−62.07			
	37	71	−0.266	−0.002	0.001	−65.11	1.61	−63.49			
	38	72	−0.252	−0.005	0.001	−69.81	1.63	−68.18	−67.90	0.28	0.012
	39	73	−0.232	−0.020	0.002	−70.74	1.75	−68.98	−68.21	0.77	0.011
	40	74	−0.232	−0.020	0.002	−74.43	1.80	−72.63	−72.21	0.41	0.002
	41	75	−0.240	−0.030	0.001	−74.53	1.88	−72.65	−72.17	0.48	0.002
	42	76	−0.232	−0.031	0.002	−77.26	1.43	−75.83	−75.25	0.58	0.002
	43	77	−0.247	−0.034	0.001	−76.61	1.27	−75.34	−74.60	0.74	0.002
	44	78	0.156	−0.022	−0.001	−78.44	0.88	−77.55	−77.03	0.52	0.002
	45	79	0.155	−0.016	0.000	−77.08	0.54	−76.54	−75.92	0.62	0.002
	46	80	0.156	−0.028	−0.001	−78.06	−0.14	−78.19	−77.76	0.43	0.002
	47	81	0.164	−0.033	−0.001	−76.05	−0.73	−76.78	−76.39	0.38	0.002
	48	82	0.142	−0.041	−0.001	−76.21	−1.64	−77.85	−77.60	0.26	0.002
	49	83	0.105	−0.026	0.000	−73.60	−2.05	−75.65	−75.34	0.30	0.004
	50	84	0.039	−0.005	0.000	−73.00	−3.07	−76.07	−75.95	0.12	0.015
	51	85	0.090	−0.003	0.001	−69.82	−2.42	−72.24	−72.42	−0.18	0.100
	52	86	0.105	−0.002	0.001	−68.50	−1.81	−70.32	−70.54	−0.22	0.130
	53	87	0.149	−0.010	0.000	−64.79	−0.83	−65.62			
	54	88	0.171	−0.014	0.000	−62.79	−0.15	−62.94			
	55	89	0.193	−0.017	−0.001	−58.57	0.47	−58.10			
	56	90	0.209	−0.033	−0.003	−55.93	0.81	−55.13			
	57	91	0.217	−0.044	−0.004	−51.24	1.15	−50.08			
	58	92	0.225	−0.043	−0.005	−48.00	1.43	−46.57			
	59	93	0.326	0.091	0.006	−42.85	1.61	−41.24			
	60	94	0.342	0.095	0.008	−39.04	1.66	−37.39			
	61	95	0.349	0.084	0.006	−33.47	1.81	−31.66			
	62	96	0.343	0.069	0.004	−29.12	1.90	−27.22			
	63	97	0.350	0.052	0.001	−23.14	2.20	−20.94			
	64	98	0.337	0.023	−0.002	−18.28	2.36	−15.92			
35	26	61	0.278	−0.046	−0.006	24.72	−0.39	24.33			
	27	62	0.164	−0.051	−0.002	14.49	−1.23	13.26			
	28	63	−0.264	0.065	−0.003	2.52	−0.70	1.82			
	29	64	−0.265	0.043	0.001	−6.14	−0.35	−6.48			
	30	65	−0.278	0.034	0.001	−16.73	−0.09	−16.82			
	31	66	−0.286	0.024	0.002	−23.96	0.08	−23.88			
	32	67	−0.293	0.020	0.001	−33.26	0.77	−32.49			
	33	68	−0.306	0.006	0.001	−39.20	0.92	−38.28			
	34	69	−0.313	0.007	0.000	−47.26	1.25	−46.02			
	35	70	−0.346	−0.007	0.002	−51.56	1.79	−49.77			
	36	71	−0.333	0.007	0.000	−58.01	1.57	−56.44			
	37	72	−0.340	−0.008	0.002	−60.81	1.75	−59.06			
	38	73	−0.313	0.002	0.000	−65.73	1.66	−64.07	−63.60	0.47	0.230
	39	74	0.372	−0.025	−0.008	−67.62	1.22	−66.40	−65.30	1.10	0.015
	40	75	−0.266	−0.008	0.001	−71.53	1.95	−69.58	−69.14	0.44	0.014
	41	76	−0.260	−0.021	0.000	−72.57	1.95	−70.62	−70.29	0.33	0.009
	42	77	−0.260	−0.021	0.000	−75.54	1.56	−73.97	−73.24	0.74	0.003
	43	78	−0.267	−0.025	0.000	−75.79	1.39	−74.40	−73.46	0.95	0.004
	44	79	0.112	−0.020	0.001	−77.86	0.90	−76.95	−76.07	0.88	0.002

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
35	45	80	0.133	−0.018	0.000	−77.39	0.48	−76.91	−75.89	1.02	0.002
	46	81	0.134	−0.030	0.000	−78.60	−0.17	−78.77	−77.98	0.79	0.005
	47	82	0.149	−0.034	0.000	−77.46	−0.68	−78.14	−77.50	0.64	0.005
	48	83	0.105	−0.026	0.000	−77.86	−1.49	−79.34	−79.01	0.33	0.004
	49	84	0.098	−0.027	0.001	−76.09	−1.71	−77.80	−77.78	0.02	0.025
	50	85	0.047	−0.005	0.000	−75.72	−2.67	−78.39	−78.61	−0.21	0.019
	51	86	0.082	−0.004	0.001	−73.37	−2.26	−75.63	−75.64	−0.01	0.060
	52	87	0.090	−0.009	0.000	−72.28	−1.54	−73.81	−73.86	−0.04	0.025
	53	88	0.119	−0.013	0.000	−69.37	−0.56	−69.93	−70.72	−0.79	0.130
	54	89	0.171	−0.014	0.000	−67.59	0.21	−67.38			
	55	90	0.209	−0.015	−0.002	−64.16	0.77	−63.39	−64.65	−1.26	0.120
	56	91	0.216	−0.020	−0.002	−61.74	1.12	−60.62			
	57	92	0.232	−0.030	−0.004	−57.82	1.36	−56.46			
	58	93	0.247	−0.027	−0.004	−54.78	1.51	−53.26			
	59	94	0.335	0.080	0.006	−50.39	1.65	−48.74			
	60	95	0.342	0.089	0.007	−46.77	1.64	−45.13			
	61	96	0.350	0.078	0.005	−41.94	1.79	−40.15			
	62	97	0.350	0.065	0.003	−37.77	1.84	−35.93			
	63	98	0.350	0.052	0.001	−32.52	2.12	−30.40			
	64	99	0.337	0.023	−0.002	−27.83	2.34	−25.49			
36	27	63	0.340	−0.021	−0.006	24.21	−0.91	23.30			
	28	64	−0.224	0.047	−0.001	11.15	−1.27	9.87			
	29	65	−0.231	0.031	0.000	2.19	−0.79	1.41			
	30	66	0.277	−0.015	−0.004	−9.47	−0.15	−9.62			
	31	67	0.269	−0.029	−0.005	−16.97	0.28	−16.69			
	32	68	0.271	−0.048	−0.005	−27.30	0.54	−26.76			
	33	69	−0.306	0.006	0.001	−33.48	0.92	−32.56			
	34	70	−0.320	0.009	0.000	−42.56	1.29	−41.27			
	35	71	−0.353	0.006	0.002	−47.54	1.88	−45.66			
	36	72	−0.346	0.010	0.001	−55.44	1.63	−53.81			
	37	73	0.376	0.008	−0.005	−58.42	1.66	−56.76	−56.89	−0.13	0.140
	38	74	0.385	0.004	−0.005	−64.32	1.57	−62.75	−62.13	0.62	0.060
	39	75	0.403	−0.010	−0.007	−66.35	1.40	−64.94	−64.21	0.73	0.020
	40	76	0.378	−0.011	−0.006	−71.22	1.51	−69.71	−68.96	0.74	0.012
	41	77	−0.232	−0.037	0.001	−72.38	1.89	−70.49	−70.19	0.30	0.017
	42	78	−0.225	−0.038	0.002	−76.28	1.38	−74.90	−74.15	0.76	0.008
	43	79	−0.247	−0.040	0.001	−76.64	1.20	−75.45	−74.44	1.00	0.004
	44	80	0.097	−0.009	0.000	−79.62	0.59	−79.03	−77.89	1.14	0.006
	45	81	0.105	−0.008	0.000	−79.24	0.26	−78.99	−77.70	1.29	0.005
	46	82	0.105	−0.014	0.000	−81.35	−0.45	−81.80	−80.59	1.20	0.005
	47	83	0.127	−0.018	0.001	−80.29	−0.98	−81.27	−79.98	1.28	0.003
	48	84	0.076	−0.016	0.001	−81.56	−1.91	−83.48	−82.43	1.05	0.003
	49	85	0.083	−0.022	0.001	−79.86	−1.92	−81.79	−81.48	0.31	0.003
	50	86	0.024	−0.006	0.000	−80.36	−3.19	−83.54	−83.26	0.28	0.005
	51	87	−0.081	−0.004	−0.001	−78.06	−2.60	−80.66	−80.71	−0.05	0.005
	52	88	−0.067	0.002	0.000	−77.81	−2.03	−79.83	−79.69	0.15	0.014
	53	89	0.105	−0.008	0.000	−74.95	−0.75	−75.70	−76.72	−1.02	0.050
	54	90	0.149	−0.004	0.001	−74.00	−0.01	−74.01	−74.95	−0.94	0.027

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
36	55	91	0.193	−0.005	0.000	−70.61	0.73	−69.88	−71.37	−1.49	0.080
	56	92	0.215	−0.014	−0.002	−69.00	1.08	−67.92	−68.65	−0.73	0.080
	57	93	0.238	−0.023	−0.002	−65.11	1.39	−63.72	−64.16	−0.44	0.120
	58	94	0.298	0.026	0.001	−62.87	1.58	−61.28			
	59	95	0.335	0.061	0.003	−58.51	1.55	−56.96			
	60	96	0.343	0.069	0.004	−55.67	1.61	−54.06			
	61	97	0.350	0.059	0.002	−50.87	1.62	−49.25			
	62	98	0.351	0.046	−0.001	−47.47	1.70	−45.77			
	63	99	0.359	0.036	−0.002	−42.24	1.99	−40.25			
	64	100	0.352	0.021	−0.003	−38.30	2.02	−36.29			
	65	101	0.353	0.002	−0.004	−32.67	2.06	−30.62			
37	28	65	0.377	−0.005	−0.006	23.47	−0.39	23.08			
	29	66	0.361	0.004	−0.005	13.48	−0.17	13.32			
	30	67	0.338	−0.002	−0.004	1.70	−0.02	1.68			
	31	68	0.300	−0.017	−0.005	−6.81	0.41	−6.40			
	32	69	0.317	−0.026	−0.006	−17.28	0.63	−16.65			
	33	70	0.294	−0.056	−0.007	−24.46	0.80	−23.66			
	34	71	0.318	−0.045	−0.008	−33.70	0.94	−32.76			
	35	72	−0.380	−0.003	0.004	−39.65	1.52	−38.13			
	36	73	0.370	0.000	−0.005	−47.73	1.42	−46.31			
	37	74	0.385	0.004	−0.005	−52.12	1.83	−50.30	−51.67	−1.37	0.460
	38	75	0.393	0.006	−0.005	−58.65	1.61	−57.05	−57.21	−0.16	0.100
	39	76	0.403	−0.010	−0.007	−61.62	1.43	−60.19	−60.53	−0.34	0.060
	40	77	0.394	−0.007	−0.006	−66.69	1.55	−65.14	−64.92	0.23	0.030
	41	78	0.386	−0.015	−0.007	−68.77	1.73	−67.04	−66.98	0.06	0.030
	42	79	0.371	−0.013	−0.006	−72.88	1.73	−71.16	−70.84	0.32	0.023
	43	80	−0.232	−0.048	0.001	−74.14	1.31	−72.83	−72.18	0.65	0.018
	44	81	−0.102	−0.008	0.000	−77.34	0.60	−76.74	−75.46	1.28	0.021
	45	82	0.097	−0.009	0.000	−77.84	0.33	−77.51	−76.20	1.30	0.017
	46	83	0.090	−0.015	0.001	−80.16	−0.28	−80.44	−79.05	1.39	0.021
	47	84	0.105	−0.014	0.000	−79.96	−0.95	−80.90	−79.75	1.15	0.003
	48	85	0.068	−0.016	0.001	−81.45	−1.77	−83.22	−82.16	1.06	0.003
	49	86	0.083	−0.022	0.001	−80.59	−1.86	−82.45	−82.74	−0.30	0.003
	50	87	−0.039	−0.005	0.000	−81.30	−3.06	−84.36	−84.59	−0.24	0.003
	51	88	−0.088	−0.003	−0.001	−79.82	−2.22	−82.04	−82.60	−0.56	0.004
	52	89	−0.081	−0.004	−0.001	−79.79	−1.60	−81.39	−81.71	−0.32	0.007
	53	90	0.097	−0.009	0.000	−77.73	−0.77	−78.50	−79.35	−0.85	0.013
	54	91	−0.129	0.006	0.000	−76.99	0.17	−76.82	−77.79	−0.97	0.010
	55	92	0.223	0.000	0.000	−74.39	0.60	−73.79	−74.81	−1.02	0.012
	56	93	0.268	0.001	−0.001	−72.98	1.05	−71.93	−72.69	−0.76	0.015
	57	94	0.290	0.018	0.001	−69.87	1.56	−68.31	−68.52	−0.21	0.019
	58	95	0.328	0.034	−0.001	−67.82	1.69	−66.13	−65.81	0.32	0.024
	59	96	0.351	0.046	−0.001	−64.22	1.75	−62.47	−61.15	1.32	0.030
	60	97	0.350	0.052	0.001	−61.57	1.70	−59.87	−58.29	1.58	0.040
	61	98	0.359	0.048	−0.001	−57.51	1.84	−55.67	−54.09	1.58	0.060
	62	99	0.359	0.036	−0.002	−54.28	1.89	−52.39	−50.86	1.53	0.110
	63	100	0.368	0.032	−0.003	−49.78	2.09	−47.69			
	64	101	0.361	0.016	−0.004	−46.02	2.09	−43.92			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
37	65	102	0.361	0.004	−0.005	−41.10	2.08	−39.02			
	66	103	0.354	−0.011	−0.006	−36.82	1.86	−34.95			
38	29	67	0.377	0.002	−0.005	23.28	−0.11	23.17			
	30	68	0.362	−0.002	−0.005	10.46	−0.05	10.40			
	31	69	0.323	−0.012	−0.005	1.67	0.26	1.93			
	32	70	0.339	−0.014	−0.006	−9.82	0.52	−9.31			
	33	71	0.310	−0.046	−0.007	−17.24	0.64	−16.60			
	34	72	0.354	−0.017	−0.006	−27.48	0.88	−26.60			
	35	73	0.371	−0.019	−0.007	−33.65	1.08	−32.58			
	36	74	0.385	−0.002	−0.006	−42.71	1.37	−41.34			
	37	75	0.394	0.000	−0.006	−47.74	1.57	−46.17			
	38	76	0.409	−0.002	−0.006	−55.66	1.44	−54.22			
	39	77	0.419	−0.019	−0.009	−58.79	1.29	−57.50	−57.88	−0.38	0.150
	40	78	0.410	−0.015	−0.008	−64.80	1.55	−63.24			
	41	79	0.411	−0.021	−0.009	−67.02	1.56	−65.46			
	42	80	0.394	−0.013	−0.007	−72.05	1.56	−70.49	−70.19	0.30	0.030
	43	81	−0.219	−0.056	0.001	−73.43	1.09	−72.34	−71.47	0.87	0.040
	44	82	−0.024	0.000	0.000	−77.52	−0.10	−77.62	−76.00	1.62	0.008
	45	83	−0.046	−0.005	0.000	−78.12	−0.41	−78.53	−76.78	1.75	0.021
	46	84	−0.032	−0.005	0.000	−81.33	−1.25	−82.58	−80.64	1.94	0.004
	47	85	−0.053	−0.011	0.000	−81.21	−1.99	−83.20	−81.10	2.10	0.004
	48	86	−0.024	0.000	0.000	−83.57	−2.56	−86.13	−84.52	1.61	0.003
	49	87	0.053	−0.011	0.000	−82.78	−2.61	−85.40	−84.87	0.52	0.003
	50	88	−0.011	0.000	0.000	−84.34	−3.45	−87.80	−87.92	−0.12	0.003
	51	89	−0.060	−0.010	0.000	−82.93	−2.56	−85.49	−86.21	−0.72	0.004
	52	90	−0.039	−0.005	0.000	−83.73	−2.19	−85.91	−85.94	−0.03	0.003
	53	91	−0.067	−0.004	−0.001	−81.72	−1.22	−82.95	−83.65	−0.71	0.009
	54	92	−0.102	−0.002	−0.001	−81.80	0.03	−81.77	−82.92	−1.15	0.013
	55	93	0.192	0.007	0.001	−79.25	0.53	−78.72	−80.16	−1.44	0.016
	56	94	0.253	0.005	0.000	−78.64	0.88	−77.75	−78.84	−1.08	0.007
	57	95	0.306	0.022	0.000	−75.56	1.43	−74.14	−75.05	−0.92	0.050
	58	96	0.344	0.038	−0.001	−74.30	1.62	−72.69	−72.88	−0.19	0.040
	59	97	0.359	0.048	−0.001	−70.74	1.69	−69.05	−68.81	0.24	0.070
	60	98	0.359	0.055	0.000	−68.86	1.59	−67.26	−66.38	0.88	0.060
	61	99	0.367	0.044	−0.002	−64.83	1.64	−63.19	−62.15	1.04	0.100
	62	100	0.368	0.038	−0.002	−62.36	1.66	−60.70	−60.20	0.50	0.210
	63	101	0.368	0.032	−0.003	−57.89	1.74	−56.15			
	64	102	0.369	0.019	−0.004	−54.87	1.78	−53.08			
	65	103	0.369	0.006	−0.005	−49.97	1.75	−48.22			
	66	104	0.362	−0.009	−0.006	−46.42	1.65	−44.77			
	67	105	0.364	−0.027	−0.008	−41.12	1.43	−39.70			
39	30	69	0.395	−0.019	−0.009	22.88	−0.13	22.75			
	31	70	0.379	−0.030	−0.010	13.10	0.33	13.43			
	32	71	0.387	−0.021	−0.009	1.49	0.54	2.03			
	33	72	0.372	−0.031	−0.009	−6.90	0.67	−6.22			
	34	73	0.387	−0.021	−0.009	−17.27	0.87	−16.40			
	35	74	0.396	−0.032	−0.010	−24.40	1.02	−23.38			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
39	36	75	0.403	−0.017	−0.009	−33.60	1.05	−32.55			
	37	76	0.403	−0.010	−0.007	−39.57	1.24	−38.33			
	38	77	0.419	−0.019	−0.009	−47.65	0.94	−46.71			
	39	78	0.428	−0.029	−0.010	−52.14	0.75	−51.39			
	40	79	0.420	−0.031	−0.011	−58.75	1.03	−57.72			
	41	80	0.420	−0.031	−0.011	−61.87	1.32	−60.55			
	42	81	0.411	−0.027	−0.010	−67.09	1.36	−65.73	−65.95	−0.22	0.070
	43	82	0.404	−0.023	−0.009	−69.35	1.39	−67.96	−68.18	−0.22	0.100
	44	83	−0.003	0.000	0.000	−73.64	0.19	−73.44	−72.37	1.08	0.060
	45	84	−0.011	0.000	0.000	−75.11	−0.50	−75.60	−74.23	1.37	0.170
	46	85	−0.011	0.000	0.000	−78.51	−1.15	−79.66	−77.85	1.82	0.025
	47	86	−0.024	−0.006	0.000	−79.24	−2.14	−81.38	−79.28	2.10	0.014
	48	87	−0.011	0.000	0.000	−81.81	−2.56	−84.37	−83.01	1.35	0.003
	49	88	0.032	−0.006	0.000	−81.85	−3.10	−84.94	−84.29	0.65	0.003
	50	89	−0.011	0.000	0.000	−83.61	−3.29	−86.90	−87.70	−0.81	0.003
	51	90	−0.046	−0.005	0.000	−83.01	−2.94	−85.95	−86.49	−0.54	0.003
	52	91	−0.018	0.000	0.000	−84.01	−2.21	−86.22	−86.35	−0.12	0.003
	53	92	−0.018	0.000	0.000	−82.80	−1.39	−84.19	−84.83	−0.64	0.010
	54	93	−0.129	−0.005	0.000	−83.08	0.17	−82.91	−84.25	−1.34	0.011
	55	94	−0.157	−0.002	0.000	−81.31	0.69	−80.62	−82.35	−1.73	0.006
	56	95	0.322	0.000	−0.003	−80.89	1.08	−79.82	−81.21	−1.39	0.006
	57	96	0.362	−0.002	−0.005	−78.58	1.62	−76.96	−78.30	−1.34	0.040
	58	97	0.368	0.025	−0.003	−77.51	1.67	−75.85	−76.27	−0.42	0.060
	59	98	0.375	0.033	−0.003	−74.70	1.77	−72.92	−72.52	0.40	0.160
	60	99	0.375	0.033	−0.003	−73.01	1.62	−71.39	−70.17	1.22	0.080
	61	100	0.375	0.033	−0.003	−69.71	1.63	−68.07	−67.29	0.79	0.140
	62	101	0.376	0.021	−0.004	−67.42	1.62	−65.80			
	63	102	0.384	0.016	−0.004	−63.67	1.75	−61.92			
	64	103	0.377	0.002	−0.005	−60.82	1.69	−59.13			
	65	104	0.377	−0.005	−0.006	−56.63	1.70	−54.93			
	66	105	0.378	−0.017	−0.007	−53.25	1.64	−51.61			
	67	106	0.373	−0.038	−0.011	−48.64	1.36	−47.28			
	68	107	0.373	−0.044	−0.012	−44.75	1.18	−43.57			
40	31	71	0.356	−0.036	−0.009	23.00	0.04	23.04			
	32	72	0.365	−0.040	−0.010	10.39	0.37	10.76			
	33	73	0.326	−0.055	−0.009	1.75	0.46	2.21			
	34	74	0.365	−0.046	−0.011	−9.60	0.69	−8.91			
	35	75	0.381	−0.048	−0.012	−16.96	1.12	−15.84			
	36	76	0.404	−0.029	−0.010	−27.11	1.05	−26.06			
	37	77	0.411	−0.027	−0.010	−33.28	1.19	−32.10			
	38	78	0.428	−0.029	−0.010	−42.31	1.00	−41.31			
	39	79	0.438	−0.039	−0.012	−47.40	0.89	−46.51			
	40	80	0.438	−0.045	−0.013	−55.33	1.07	−54.27			
	41	81	0.430	−0.047	−0.014	−58.61	1.41	−57.20	−58.79	−1.59	0.300
	42	82	−0.205	−0.058	0.001	−64.73	1.02	−63.71	−64.18	−0.47	0.510
	43	83	−0.219	−0.067	0.001	−67.12	1.10	−66.02	−66.35	−0.33	0.100
	44	84	−0.018	0.000	0.000	−72.30	−0.53	−72.83			
	45	85	0.032	0.000	0.000	−73.88	−1.04	−74.92	−73.15	1.77	0.100

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
40	46	86	0.018	0.000	0.000	−78.15	−1.83	−79.98			
	47	87	0.047	0.001	0.000	−78.98	−2.37	−81.35	−79.35	2.00	0.008
	48	88	−0.011	0.000	0.000	−82.40	−3.11	−85.51	−83.63	1.88	0.010
	49	89	0.053	−0.011	0.000	−82.52	−3.15	−85.67	−84.87	0.80	0.003
	50	90	−0.011	0.000	0.000	−85.12	−3.85	−88.97	−88.77	0.21	0.002
	51	91	−0.053	−0.005	0.000	−84.59	−3.28	−87.87	−87.89	−0.02	0.002
	52	92	−0.018	0.000	0.000	−86.41	−2.80	−89.21	−88.46	0.76	0.002
	53	93	0.024	0.006	0.000	−85.27	−2.06	−87.33	−87.12	0.21	0.002
	54	94	−0.123	−0.006	0.000	−86.35	−0.53	−86.89	−87.27	−0.38	0.002
	55	95	0.170	0.023	0.001	−84.63	0.24	−84.39	−85.66	−1.26	0.002
	56	96	0.215	0.011	0.001	−85.01	0.69	−84.32	−85.44	−1.12	0.003
	57	97	0.275	0.021	0.002	−82.75	1.38	−81.36	−82.95	−1.59	0.003
	58	98	0.337	0.023	−0.002	−82.45	1.40	−81.06	−81.28	−0.22	0.020
	59	99	0.359	0.036	−0.002	−79.68	1.61	−78.07	−77.79	0.28	0.040
	60	100	0.368	0.032	−0.003	−78.75	1.56	−77.19	−76.59	0.60	0.040
	61	101	0.375	0.027	−0.003	−75.48	1.63	−73.86	−73.38	0.47	0.070
	62	102	0.376	0.021	−0.004	−73.95	1.62	−72.33	−71.77	0.56	0.060
	63	103	0.376	0.014	−0.004	−70.22	1.71	−68.51	−68.29	0.22	0.130
	64	104	0.377	−0.005	−0.006	−68.11	1.70	−66.41			
	65	105	0.378	−0.011	−0.006	−63.95	1.70	−62.25			
	66	106	0.372	−0.025	−0.008	−61.29	1.63	−59.66			
	67	107	0.373	−0.044	−0.012	−56.71	1.40	−55.30			
	68	108	0.374	−0.056	−0.013	−53.53	1.32	−52.21			
	69	109	0.367	−0.071	−0.013	−48.55	0.84	−47.71			
41	34	75	0.374	−0.050	−0.012	1.87	0.51	2.39			
	35	76	0.389	−0.046	−0.012	−6.41	1.10	−5.31			
	36	77	0.412	−0.034	−0.011	−16.70	1.05	−15.65			
	37	78	0.411	−0.027	−0.010	−23.79	1.26	−22.53			
	38	79	0.437	−0.026	−0.010	−32.95	0.82	−32.14			
	39	80	0.445	−0.037	−0.012	−38.94	0.66	−38.28			
	40	81	0.445	−0.037	−0.012	−47.04	0.79	−46.25			
	41	82	0.445	−0.037	−0.012	−51.61	0.86	−50.76			
	42	83	−0.219	−0.072	0.001	−58.30	0.95	−57.35			
	43	84	−0.225	−0.077	0.001	−61.56	0.86	−60.70			
	44	85	−0.212	−0.068	0.001	−66.91	0.23	−66.68			
	45	86	0.068	0.008	0.000	−69.35	−0.60	−69.94			
	46	87	0.053	0.007	0.000	−73.80	−1.34	−75.15	−74.18	0.97	0.060
	47	88	0.076	0.002	0.000	−75.46	−2.01	−77.47			
	48	89	0.032	−0.006	0.000	−79.07	−3.08	−82.15	−80.58	1.57	0.040
	49	90	0.061	−0.011	0.000	−80.01	−2.82	−82.83	−82.66	0.17	0.005
	50	91	−0.011	−0.006	0.000	−82.81	−3.97	−86.77	−86.64	0.13	0.003
	51	92	−0.067	−0.010	0.000	−83.07	−3.76	−86.84	−86.45	0.39	0.003
	52	93	−0.039	−0.005	0.000	−85.09	−3.04	−88.13	−87.21	0.92	0.002
	53	94	0.082	0.021	0.001	−84.73	−1.93	−86.66	−86.37	0.29	0.002
	54	95	−0.150	−0.009	0.000	−86.01	−0.42	−86.43	−86.78	−0.35	0.002
	55	96	0.178	0.024	0.001	−85.06	0.10	−84.96	−85.61	−0.65	0.004
	56	97	−0.185	−0.005	0.000	−85.62	1.04	−84.59	−85.61	−1.02	0.003
	57	98	0.267	0.020	0.002	−84.11	1.23	−82.89	−83.53	−0.64	0.006

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
41	58	99	0.290	0.018	0.001	−84.01	1.38	−82.63	−82.33	0.31	0.013
	59	100	0.360	0.029	−0.002	−81.97	1.72	−80.25	−79.93	0.32	0.028
	60	101	0.368	0.032	−0.003	−81.23	1.65	−79.58	−78.95	0.63	0.040
	61	102	0.375	0.027	−0.003	−78.69	1.66	−77.03	−76.35	0.68	0.050
	62	103	0.384	0.016	−0.004	−77.33	1.64	−75.69	−75.24	0.45	0.090
	63	104	0.384	0.010	−0.005	−74.32	1.75	−72.57	−72.26	0.31	0.120
	64	105	0.377	−0.005	−0.006	−72.38	1.84	−70.54	−70.94	−0.40	0.120
	65	106	0.378	−0.011	−0.006	−68.92	1.87	−67.05			
	66	107	0.372	−0.025	−0.008	−66.42	1.89	−64.54			
	67	108	0.373	−0.038	−0.011	−62.53	1.79	−60.74			
	68	109	0.366	−0.052	−0.011	−59.51	1.69	−57.82			
	69	110	0.367	−0.071	−0.013	−55.20	1.50	−53.70			
	70	111	0.368	−0.083	−0.014	−51.68	1.34	−50.34			
42	35	77	−0.287	−0.037	0.002	2.41	0.81	3.22			
	36	78	−0.239	−0.052	0.001	−8.81	1.25	−7.55			
	37	79	0.403	−0.017	−0.009	−16.11	0.92	−15.19			
	38	80	0.443	−0.018	−0.008	−26.19	0.71	−25.48			
	39	81	−0.204	−0.069	0.000	−32.37	2.10	−30.27			
	40	82	−0.212	−0.068	0.001	−41.37	1.70	−39.67			
	41	83	−0.219	−0.072	0.001	−46.51	1.56	−44.96			
	42	84	−0.219	−0.072	0.001	−54.47	1.16	−53.32			
	43	85	−0.224	−0.082	0.000	−57.89	0.47	−57.42			
	44	86	0.018	0.000	0.000	−64.10	−0.99	−65.09			
	45	87	0.039	0.007	0.000	−66.67	−1.49	−68.15	−67.44	0.71	0.310
	46	88	0.024	0.000	0.000	−71.97	−2.27	−74.24			
	47	89	0.053	0.001	0.000	−73.75	−2.48	−76.23	−75.00	1.22	0.015
	48	90	0.018	0.000	0.000	−78.19	−3.60	−81.79	−80.17	1.62	0.006
	49	91	0.047	−0.005	0.000	−79.23	−3.72	−82.95	−82.21	0.74	0.012
	50	92	0.003	0.000	0.000	−82.84	−4.30	−87.14	−86.81	0.33	0.004
	51	93	0.039	0.013	0.001	−83.19	−3.88	−87.08	−86.81	0.27	0.004
	52	94	0.011	0.000	0.000	−86.02	−3.54	−89.56	−88.41	1.15	0.002
	53	95	0.047	0.013	0.001	−85.73	−2.52	−88.25	−87.71	0.54	0.002
	54	96	0.097	0.028	0.001	−87.80	−1.15	−88.95	−88.79	0.16	0.002
	55	97	0.162	0.028	−0.001	−86.91	−0.16	−87.07	−87.54	−0.47	0.002
	56	98	0.184	0.019	0.001	−88.26	0.45	−87.80	−88.11	−0.31	0.002
	57	99	0.208	0.010	0.001	−86.80	0.89	−85.91	−85.97	−0.05	0.002
	58	100	0.230	0.013	0.001	−87.46	1.23	−86.24	−86.19	0.05	0.006
	59	101	0.297	0.045	0.002	−85.47	1.43	−84.04	−83.51	0.53	0.006
	60	102	0.328	0.040	0.000	−85.48	1.57	−83.91	−83.56	0.35	0.021
	61	103	0.351	0.040	−0.002	−82.98	1.73	−81.25	−80.76	0.49	0.080
	62	104	0.352	0.027	−0.003	−82.36	1.73	−80.64	−80.37	0.27	0.060
	63	105	0.369	0.019	−0.004	−79.39	1.87	−77.52	−77.36	0.16	0.090
	64	106	0.361	0.004	−0.005	−78.18	1.87	−76.31	−76.27	0.04	0.090
	65	107	0.362	−0.002	−0.005	−74.74	1.89	−72.86			
	66	108	0.348	−0.019	−0.006	−72.97	1.75	−71.21			
	67	109	0.349	−0.037	−0.009	−69.10	1.57	−67.53			
	68	110	0.342	−0.052	−0.009	−66.78	1.35	−65.43			
	69	111	0.343	−0.070	−0.012	−62.50	1.08	−61.42			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
42	70	112	0.344	−0.082	−0.013	−59.66	0.98	−58.69			
	71	113	0.303	−0.072	−0.009	−54.99	0.92	−54.07			
43	39	82	−0.211	−0.084	−0.001	−22.63	1.67	−20.96			
	40	83	−0.224	−0.082	0.000	−31.76	1.25	−30.51			
	41	84	−0.231	−0.086	0.001	−37.78	0.88	−36.90			
	42	85	−0.231	−0.086	0.001	−45.89	0.78	−45.11			
	43	86	−0.238	−0.096	0.002	−50.54	0.15	−50.39			
	44	87	−0.224	−0.082	0.000	−57.30	−0.56	−57.86			
	45	88	0.053	0.007	0.000	−60.70	−1.12	−61.82			
	46	89	0.039	0.001	0.000	−66.18	−2.67	−68.85			
	47	90	0.061	0.007	0.000	−68.77	−2.81	−71.58			
	48	91	0.024	0.000	0.000	−73.39	−4.06	−77.45	−75.99	1.46	0.200
	49	92	0.053	−0.005	0.001	−75.23	−3.74	−78.97	−78.94	0.04	0.026
	50	93	0.003	0.000	0.000	−79.02	−4.72	−83.74	−83.61	0.13	0.004
	51	94	0.047	0.019	0.001	−80.17	−4.03	−84.20	−84.16	0.04	0.005
	52	95	0.018	0.006	0.000	−83.17	−3.87	−87.04	−86.02	1.02	0.006
	53	96	0.119	0.036	0.000	−83.66	−2.15	−85.80	−85.82	−0.02	0.006
	54	97	0.133	0.037	−0.001	−85.91	−1.28	−87.18	−87.22	−0.04	0.005
	55	98	0.162	0.034	−0.001	−85.78	−0.40	−86.18	−86.43	−0.25	0.004
	56	99	0.178	0.024	0.001	−87.31	0.18	−87.13	−87.32	−0.20	0.002
	57	100	0.200	0.021	0.001	−86.60	0.74	−85.86	−86.02	−0.16	0.002
	58	101	0.214	0.017	0.001	−87.44	1.04	−86.40	−86.34	0.06	0.024
	59	102	0.252	0.036	0.002	−86.18	1.38	−84.81	−84.57	0.24	0.009
	60	103	0.282	0.036	0.003	−86.37	1.42	−84.94	−84.60	0.34	0.010
	61	104	0.320	0.038	0.001	−84.59	1.61	−82.98	−82.49	0.49	0.050
	62	105	0.314	0.024	0.000	−84.14	1.68	−82.47	−82.35	0.12	0.060
	63	106	0.329	0.021	−0.002	−81.87	1.78	−80.09	−79.79	0.30	0.060
	64	107	0.315	0.005	−0.003	−80.83	1.85	−78.99			
	65	108	0.322	−0.006	−0.004	−78.09	1.85	−76.24			
	66	109	0.308	−0.022	−0.006	−76.48	1.72	−74.76			
	67	110	0.309	−0.034	−0.006	−73.29	1.60	−71.69			
	68	111	−0.252	−0.061	0.002	−71.13	1.47	−69.67			
	69	112	−0.259	−0.065	0.003	−67.52	1.20	−66.32			
	70	113	−0.252	−0.066	0.003	−64.84	1.01	−63.83			
	71	114	−0.252	−0.066	0.003	−60.82	0.81	−60.01			
	72	115	−0.232	−0.064	0.001	−57.64	0.81	−56.83			
	73	116	−0.219	−0.067	0.001	−53.23	0.65	−52.58			
	74	117	−0.204	−0.069	0.000	−49.58	0.35	−49.22			
44	40	84	−0.218	−0.078	0.000	−24.72	0.97	−23.75			
	41	85	−0.224	−0.082	0.000	−30.91	0.88	−30.04			
	42	86	0.003	0.000	0.000	−39.89	−0.69	−40.58			
	43	87	0.024	0.006	0.000	−45.09	−1.24	−46.33			
	44	88	0.024	0.000	0.000	−53.08	−2.05	−55.12			
	45	89	0.039	0.007	0.000	−56.62	−2.60	−59.21			
	46	90	0.032	0.000	0.000	−62.93	−3.36	−66.29			
	47	91	0.053	0.007	0.000	−65.64	−3.32	−68.96			
	48	92	0.024	0.000	0.000	−71.08	−4.77	−75.85			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
44	49	93	0.053	−0.005	0.001	−73.03	−4.13	−77.16	−77.27	−0.11	0.090
	50	94	0.011	0.000	0.000	−77.63	−5.47	−83.10	−82.57	0.53	0.013
	51	95	0.047	0.019	0.001	−78.87	−4.56	−83.43	−83.45	−0.02	0.012
	52	96	0.024	0.006	0.000	−82.67	−4.26	−86.93	−86.07	0.85	0.008
	53	97	0.076	0.020	0.000	−83.24	−2.69	−85.93	−86.11	−0.18	0.008
	54	98	0.119	0.030	0.000	−86.27	−1.86	−88.12	−88.22	−0.10	0.006
	55	99	0.155	0.027	−0.001	−86.21	−0.93	−87.14	−87.62	−0.47	0.002
	56	100	0.162	0.022	0.001	−88.51	−0.18	−88.69	−89.22	−0.53	0.002
	57	101	0.178	0.005	0.001	−87.86	0.39	−87.47	−87.95	−0.48	0.002
	58	102	0.192	0.007	0.001	−89.46	0.72	−88.74	−89.10	−0.36	0.002
	59	103	0.222	0.018	0.002	−88.25	1.06	−87.19	−87.26	−0.07	0.002
	60	104	0.222	0.012	0.001	−89.18	1.28	−87.90	−88.09	−0.19	0.004
	61	105	0.282	0.042	0.003	−87.45	1.44	−86.01	−85.93	0.08	0.004
	62	106	0.267	0.020	0.002	−87.74	1.53	−86.21	−86.33	−0.12	0.008
	63	107	0.290	0.018	0.001	−85.51	1.74	−83.77	−83.71	0.06	0.300
	64	108	0.276	0.003	0.000	−85.18	1.76	−83.42	−83.76	−0.34	0.230
	65	109	0.284	−0.002	−0.002	−82.48	1.79	−80.69			
	66	110	−0.239	−0.041	0.001	−81.57	1.71	−79.87			
	67	111	−0.246	−0.045	0.001	−78.42	1.48	−76.94			
	68	112	−0.246	−0.051	0.001	−76.96	1.27	−75.69			
	69	113	−0.259	−0.065	0.003	−73.37	0.99	−72.38			
	70	114	−0.246	−0.056	0.002	−71.37	0.81	−70.57			
	71	115	−0.252	−0.061	0.002	−67.38	0.55	−66.83			
	72	116	−0.225	−0.060	0.001	−64.87	0.48	−64.39			
	73	117	−0.212	−0.062	0.001	−60.48	0.26	−60.22			
	74	118	−0.198	−0.070	0.001	−57.49	−0.15	−57.65			
	75	119	−0.184	−0.072	0.001	−52.73	−0.65	−53.38			
	76	120	−0.171	−0.074	0.001	−49.27	−1.10	−50.37			
45	41	86	−0.231	−0.086	0.001	−20.92	−0.15	−21.07			
	42	87	0.024	0.006	0.000	−30.03	−1.40	−31.43			
	43	88	0.047	0.007	0.000	−36.07	−1.70	−37.77			
	44	89	0.047	0.007	0.000	−44.19	−2.50	−46.69			
	45	90	0.061	0.007	0.000	−48.93	−1.26	−50.19			
	46	91	0.053	0.007	0.000	−55.76	−2.94	−58.70			
	47	92	0.068	0.008	0.000	−59.29	−3.81	−63.10			
	48	93	0.032	0.000	0.000	−64.88	−5.25	−70.13			
	49	94	0.053	−0.005	0.001	−67.63	−4.55	−72.17	−72.94	−0.77	0.450
	50	95	0.011	0.000	0.000	−72.39	−6.01	−78.39	−78.34	0.05	0.150
	51	96	0.053	0.019	0.001	−74.41	−4.91	−79.32	−79.63	−0.30	0.013
	52	97	0.039	0.013	0.001	−78.37	−4.84	−83.21	−82.59	0.62	0.040
	53	98	0.090	0.033	0.001	−79.71	−3.20	−82.90	−83.17	−0.26	0.012
	54	99	0.119	0.036	0.000	−82.91	−2.33	−85.24	−85.52	−0.28	0.010
	55	100	0.155	0.027	−0.001	−83.60	−1.40	−85.00	−85.59	−0.59	0.020
	56	101	0.162	0.016	0.001	−86.07	−0.72	−86.79	−87.41	−0.62	0.017
	57	102	0.178	0.005	0.001	−86.16	−0.10	−86.26	−86.82	−0.56	0.017
	58	103	0.185	0.006	0.001	−87.93	0.30	−87.63	−88.02	−0.39	0.003
	59	104	0.208	0.010	0.001	−87.45	0.69	−86.75	−86.95	−0.20	0.003
	60	105	0.208	0.003	0.001	−88.55	0.91	−87.64	−87.85	−0.21	0.005

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
45	61	106	0.223	0.006	0.001	−87.53	1.21	−86.32	−86.36	−0.05	0.008
	62	107	0.223	0.000	0.000	−87.98	1.29	−86.69	−86.86	−0.17	0.018
	63	108	0.237	0.002	0.000	−86.45	1.40	−85.05	−85.08	−0.03	0.200
	64	109	−0.240	−0.030	0.001	−86.30	1.49	−84.80	−85.02	−0.22	0.020
	65	110	−0.247	−0.040	0.001	−84.28	1.55	−82.72	−82.94	−0.22	0.220
	66	111	−0.246	−0.045	0.001	−83.54	1.35	−82.19			
	67	112	−0.252	−0.050	0.002	−81.06	1.17	−79.88			
	68	113	−0.252	−0.055	0.002	−79.75	0.90	−78.85			
	69	114	−0.259	−0.065	0.003	−76.83	0.68	−76.15			
	70	115	−0.246	−0.062	0.002	−74.98	0.42	−74.56			
	71	116	−0.252	−0.066	0.003	−71.64	0.13	−71.51			
	72	117	−0.232	−0.064	0.001	−69.28	0.00	−69.28			
	73	118	−0.219	−0.067	0.001	−65.54	−0.26	−65.79			
	74	119	−0.204	−0.069	0.000	−62.69	−0.62	−63.31			
	75	120	−0.191	−0.077	0.000	−58.55	−1.16	−59.72			
	76	121	−0.171	−0.074	0.001	−55.24	−1.56	−56.79			
	77	122	−0.163	−0.080	0.000	−50.73	−2.68	−53.42			
	78	123	0.003	0.000	0.000	−46.96	−2.70	−49.66			
	79	124	0.011	0.006	0.000	−42.10	−3.89	−45.99			
	80	125	0.003	0.000	0.000	−37.90	−4.91	−42.81			
	81	126	0.011	−0.006	0.000	−32.69	−6.97	−39.67			
	82	127	0.003	0.000	0.000	−28.08	−7.93	−36.02			
	83	128	−0.011	−0.006	0.000	−22.55	−7.20	−29.75			
	84	129	−0.003	0.000	0.000	−17.54	−6.05	−23.58			
	85	130	0.003	0.000	0.000	−11.69	−4.81	−16.50			
46	42	88	0.011	0.000	0.000	−22.71	−1.98	−24.68			
	43	89	0.032	0.006	0.000	−28.91	−2.41	−31.32			
	44	90	0.032	0.006	0.000	−37.88	−3.21	−41.09			
	45	91	0.047	0.007	0.000	−43.13	−3.66	−46.79			
	46	92	0.039	0.001	0.000	−51.14	−4.47	−55.61			
	47	93	0.053	0.001	0.000	−54.80	−4.37	−59.17			
	48	94	0.024	0.000	0.000	−61.20	−5.96	−67.16			
	49	95	0.053	−0.011	0.000	−64.07	−5.18	−69.24			
	50	96	0.011	0.000	0.000	−69.62	−6.64	−76.26	−76.18	0.08	0.150
	51	97	0.039	0.019	0.001	−71.75	−5.97	−77.72	−77.80	−0.08	0.300
	52	98	0.032	0.006	0.000	−76.49	−5.47	−81.96	−81.30	0.66	0.022
	53	99	0.061	0.019	0.000	−77.92	−3.71	−81.63	−82.19	−0.57	0.016
	54	100	0.090	0.021	0.001	−81.89	−2.76	−84.65	−85.22	−0.57	0.013
	55	101	0.140	0.026	0.000	−82.66	−1.96	−84.62	−85.43	−0.81	0.018
	56	102	0.148	0.014	0.000	−85.89	−1.25	−87.14	−87.92	−0.78	0.008
	57	103	0.155	0.003	0.001	−86.05	−0.47	−86.52	−87.47	−0.95	0.008
	58	104	0.163	−0.003	0.001	−88.56	−0.07	−88.63	−89.39	−0.76	0.005
	59	105	0.171	−0.014	0.000	−88.14	0.46	−87.68	−88.42	−0.74	0.005
	60	106	0.171	−0.014	0.000	−89.97	0.67	−89.31	−89.91	−0.60	0.005
	61	107	0.200	−0.004	0.000	−89.01	0.90	−88.11	−88.37	−0.27	0.006
	62	108	0.193	−0.011	0.000	−90.18	1.02	−89.16	−89.52	−0.36	0.004
	63	109	0.215	−0.008	−0.001	−88.70	1.19	−87.51	−87.61	−0.09	0.004
	64	110	0.215	−0.014	−0.002	−89.25	1.10	−88.15	−88.35	−0.19	0.015

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
46	65	111	−0.240	−0.024	0.001	−87.28	1.24	−86.04	−86.03	0.01	0.040
	66	112	−0.240	−0.035	0.001	−87.23	1.06	−86.17	−86.33	−0.16	0.019
	67	113	−0.247	−0.040	0.001	−84.79	0.97	−83.81	−83.68	0.13	0.150
	68	114	−0.246	−0.045	0.001	−84.17	0.67	−83.50	−83.46	0.04	0.029
	69	115	−0.252	−0.050	0.002	−81.28	0.43	−80.85			
	70	116	−0.239	−0.047	0.002	−80.11	0.20	−79.92	−80.14	−0.22	0.150
	71	117	−0.246	−0.051	0.001	−76.80	−0.05	−76.85			
	72	118	−0.219	−0.050	0.002	−75.11	−0.33	−75.44			
	73	119	−0.205	−0.058	0.001	−71.38	−0.65	−72.03			
	74	120	−0.177	−0.062	0.002	−69.19	−1.26	−70.46			
	75	121	−0.157	−0.065	0.001	−65.08	−1.90	−66.98			
	76	122	0.018	0.000	0.000	−62.41	−2.08	−64.49			
	77	123	0.032	−0.006	0.000	−57.92	−2.97	−60.89			
	78	124	0.011	0.000	0.000	−54.79	−3.90	−58.69			
	79	125	0.018	−0.006	0.000	−49.94	−5.25	−55.19			
	80	126	0.003	0.000	0.000	−46.37	−6.37	−52.74			
	81	127	0.018	−0.006	0.000	−41.18	−7.96	−49.14			
	82	128	0.003	0.000	0.000	−37.19	−8.97	−46.16			
	83	129	0.011	0.006	0.000	−31.67	−8.18	−39.85			
	84	130	0.003	0.000	0.000	−27.27	−7.03	−34.30			
	85	131	0.011	0.006	0.000	−21.43	−5.90	−27.32			
	86	132	0.003	0.000	0.000	−16.64	−4.63	−21.26			
47	43	90	0.068	0.008	0.000	−18.67	−1.40	−20.07			
	44	91	0.068	0.002	0.000	−27.76	−3.24	−31.00			
	45	92	0.076	0.008	0.001	−33.82	−3.75	−37.57			
	46	93	0.068	−0.004	0.001	−41.96	−4.50	−46.46			
	47	94	0.076	−0.004	0.001	−46.78	−5.27	−52.05			
	48	95	0.047	−0.005	0.000	−53.67	−6.63	−60.30			
	49	96	0.061	−0.011	0.000	−57.32	−6.08	−63.41			
	50	97	0.018	−0.006	0.000	−63.03	−7.48	−70.50			
	51	98	0.053	0.019	0.001	−65.92	−6.49	−72.40			
	52	99	0.039	0.013	0.001	−70.82	−6.34	−77.15	−76.76	0.39	0.150
	53	100	0.076	0.020	0.000	−73.00	−4.77	−77.77	−78.17	−0.40	0.090
	54	101	0.090	0.021	0.001	−77.13	−3.98	−81.11	−81.19	−0.09	0.120
	55	102	0.133	0.019	0.000	−78.65	−2.87	−81.51	−82.08	−0.56	0.050
	56	103	0.141	0.007	0.000	−82.03	−2.04	−84.07	−84.79	−0.71	0.017
	57	104	0.155	−0.004	0.001	−82.92	−1.24	−84.17	−85.11	−0.95	0.006
	58	105	0.155	−0.004	0.001	−85.60	−0.79	−86.38	−87.08	−0.70	0.009
	59	106	0.163	−0.015	0.000	−85.89	−0.12	−86.02	−86.94	−0.92	0.005
	60	107	0.163	−0.015	0.000	−87.89	0.10	−87.78	−88.41	−0.63	0.005
	61	108	0.171	−0.014	0.000	−87.63	0.55	−87.07	−87.61	−0.53	0.005
	62	109	0.163	−0.021	−0.001	−88.96	0.64	−88.32	−88.72	−0.40	0.003
	63	110	0.186	−0.024	−0.001	−88.17	0.86	−87.31	−87.46	−0.15	0.003
	64	111	0.186	−0.024	−0.001	−88.89	0.78	−88.11	−88.22	−0.11	0.004
	65	112	0.201	−0.022	−0.002	−87.59	0.78	−86.81	−86.62	0.18	0.017
	66	113	−0.240	−0.035	0.001	−87.70	0.57	−87.13	−87.04	0.09	0.020
	67	114	−0.247	−0.040	0.001	−85.93	0.61	−85.32	−84.96	0.36	0.070
	68	115	−0.246	−0.045	0.001	−85.46	0.31	−85.16	−84.95	0.21	0.070

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
47	69	116	−0.252	−0.050	0.002	−83.23	0.12	−83.12	−82.76	0.36	0.110
	70	117	−0.246	−0.051	0.001	−82.22	−0.19	−82.41	−82.25	0.16	0.050
	71	118	−0.246	−0.051	0.001	−79.55	−0.42	−79.97	−79.58	0.39	0.100
	72	119	−0.219	−0.050	0.002	−78.00	−1.02	−79.02	−78.59	0.43	0.070
	73	120	0.164	−0.033	−0.001	−74.92	−0.95	−75.87	−75.77	0.10	0.100
	74	121	0.134	−0.024	0.001	−72.87	−1.74	−74.61	−74.55	0.05	0.190
	75	122	0.134	−0.030	0.000	−69.38	−2.29	−71.67			
	76	123	0.039	−0.005	0.000	−66.85	−3.26	−70.11			
	77	124	0.047	−0.005	0.000	−62.98	−3.88	−66.86			
	78	125	0.018	0.000	0.000	−59.98	−5.08	−65.06			
	79	126	0.024	−0.006	0.000	−55.74	−6.21	−61.95			
	80	127	0.003	0.000	0.000	−52.30	−7.39	−59.69			
	81	128	0.018	−0.006	0.000	−47.71	−8.90	−56.61			
	82	129	0.003	0.000	0.000	−43.83	−9.90	−53.74			
	83	130	0.018	0.012	0.000	−38.90	−9.10	−48.00			
	84	131	0.003	0.000	0.000	−34.62	−7.97	−42.58			
	85	132	0.018	0.006	0.000	−29.36	−6.82	−36.18			
	86	133	0.011	0.006	0.000	−24.68	−5.57	−30.25			
	87	134	0.018	0.012	0.000	−19.10	−4.42	−23.52			
48	45	93	0.039	0.001	0.000	−26.37	−5.24	−31.61			
	46	94	0.039	−0.005	0.000	−35.33	−5.95	−41.27			
	47	95	0.047	−0.005	0.000	−40.63	−6.69	−47.32			
	48	96	0.024	−0.006	0.000	−48.67	−7.47	−56.14			
	49	97	0.047	−0.011	0.001	−52.44	−7.52	−59.97			
	50	98	0.011	−0.006	0.000	−58.93	−8.13	−67.06			
	51	99	0.032	0.012	0.000	−61.94	−7.58	−69.51			
	52	100	0.018	0.006	0.000	−67.61	−7.09	−74.69			
	53	101	0.039	0.013	0.001	−69.89	−6.04	−75.93	−75.66	0.27	0.180
	54	102	0.053	0.013	0.001	−74.77	−4.21	−78.99			
	55	103	0.090	0.015	0.000	−76.38	−3.34	−79.72	−80.65	−0.93	0.016
	56	104	0.097	0.009	0.001	−80.51	−2.82	−83.33	−83.98	−0.65	0.010
	57	105	0.133	−0.006	0.001	−81.48	−1.78	−83.26	−84.34	−1.08	0.010
	58	106	0.133	−0.012	0.000	−84.89	−1.34	−86.23	−87.14	−0.91	0.006
	59	107	0.149	−0.028	−0.001	−85.25	−0.62	−85.87	−86.99	−1.12	0.007
	60	108	0.149	−0.028	−0.001	−87.97	−0.41	−88.38	−89.25	−0.87	0.005
	61	109	0.149	−0.028	−0.001	−87.77	0.13	−87.64	−88.51	−0.87	0.004
	62	110	0.149	−0.034	0.000	−89.82	0.15	−89.67	−90.35	−0.69	0.003
	63	111	0.156	−0.034	−0.001	−89.08	0.49	−88.59	−89.25	−0.67	0.003
	64	112	0.156	−0.034	−0.001	−90.49	0.37	−90.13	−90.58	−0.46	0.003
	65	113	0.172	−0.038	−0.002	−89.24	0.67	−88.57	−89.05	−0.47	0.003
	66	114	0.164	−0.039	−0.002	−90.05	0.39	−89.66	−90.02	−0.36	0.003
	67	115	0.179	−0.037	−0.002	−88.31	0.28	−88.03	−88.09	−0.06	0.003
	68	116	0.164	−0.039	−0.002	−88.53	0.00	−88.53	−88.72	−0.19	0.003
	69	117	−0.247	−0.040	0.001	−86.33	−0.09	−86.42	−86.42	0.01	0.013
	70	118	0.156	−0.040	−0.001	−85.99	−0.46	−86.45	−86.71	−0.26	0.020
	71	119	0.164	−0.039	−0.002	−83.35	−0.56	−83.91	−83.94	−0.03	0.060
	72	120	0.134	−0.030	0.000	−82.47	−1.53	−84.00	−83.97	0.03	0.019
	73	121	0.134	−0.030	0.000	−79.41	−1.84	−81.25	−80.95	0.30	0.150

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
48	74	122	0.024	0.000	0.000	−78.01	−2.91	−80.92			
	75	123	0.039	−0.005	0.000	−74.55	−3.40	−77.95			
	76	124	0.011	0.000	0.000	−72.65	−4.39	−77.05			
	77	125	0.018	0.000	0.000	−68.81	−5.21	−74.02			
	78	126	0.003	0.000	0.000	−66.44	−6.20	−72.64			
	79	127	0.011	0.000	0.000	−62.22	−7.34	−69.56			
	80	128	0.003	0.000	0.000	−59.40	−8.47	−67.86			
	81	129	0.011	−0.006	0.000	−54.82	−9.99	−64.81			
	82	130	0.003	0.000	0.000	−51.56	−11.01	−62.57			
	83	131	0.011	0.006	0.000	−46.64	−10.18	−56.83			
	84	132	0.003	0.000	0.000	−42.96	−9.09	−52.05			
	85	133	0.011	0.000	0.000	−37.72	−7.91	−45.62			
	86	134	0.003	0.000	0.000	−33.63	−6.62	−40.26			
	87	135	0.003	0.000	0.000	−28.07	−5.41	−33.48			
	88	136	0.011	0.000	0.000	−23.60	−4.36	−27.97			
49	46	95	0.047	−0.011	0.001	−24.94	−7.25	−32.19			
	47	96	0.053	−0.017	0.000	−31.04	−7.22	−38.26			
	48	97	0.039	−0.017	0.000	−39.20	−8.79	−47.99			
	49	98	0.047	−0.023	0.001	−44.09	−9.00	−53.09			
	50	99	0.024	−0.012	0.001	−51.05	−9.61	−60.66			
	51	100	0.039	0.019	0.001	−54.81	−8.83	−63.64			
	52	101	0.032	−0.012	0.001	−60.62	−8.49	−69.11			
	53	102	0.053	0.013	0.001	−63.65	−6.61	−70.26			
	54	103	0.061	0.007	0.000	−68.68	−5.35	−74.03	−74.61	−0.58	0.025
	55	104	0.082	0.009	0.001	−71.02	−4.52	−75.54			
	56	105	0.090	0.003	0.000	−75.30	−3.67	−78.97	−79.49	−0.53	0.016
	57	106	0.105	−0.002	0.001	−76.99	−2.75	−79.74	−80.62	−0.88	0.013
	58	107	0.105	−0.008	0.000	−80.55	−2.22	−82.77	−83.57	−0.80	0.013
	59	108	0.105	−0.014	0.000	−81.63	−1.43	−83.06	−84.11	−1.06	0.029
	60	109	0.105	−0.020	0.001	−84.49	−1.12	−85.62	−86.49	−0.87	0.006
	61	110	0.105	−0.020	0.001	−84.99	−0.56	−85.55	−86.41	−0.86	0.200
	62	111	0.105	−0.020	0.001	−87.19	−0.51	−87.71	−88.39	−0.68	0.006
	63	112	0.112	−0.032	0.001	−87.14	−0.17	−87.32	−88.00	−0.68	0.005
	64	113	0.105	−0.026	0.000	−88.71	−0.31	−89.02	−89.37	−0.35	0.003
	65	114	0.105	−0.020	0.001	−88.14	−0.06	−88.19	−88.57	−0.38	0.003
	66	115	0.105	−0.020	0.001	−89.09	−0.38	−89.47	−89.54	−0.07	0.004
	67	116	0.105	−0.020	0.001	−88.02	−0.20	−88.22	−88.25	−0.04	0.005
	68	117	0.098	−0.021	0.001	−88.38	−0.68	−89.07	−88.94	0.12	0.005
	69	118	0.105	−0.020	0.001	−86.84	−0.71	−87.55	−87.23	0.32	0.008
	70	119	0.090	−0.021	0.001	−86.64	−1.29	−87.93	−87.73	0.20	0.008
	71	120	0.105	−0.020	0.001	−84.65	−1.51	−86.15	−85.80	0.35	0.170
	72	121	0.076	−0.016	0.001	−83.91	−2.17	−86.08	−85.84	0.24	0.028
	73	122	0.082	−0.016	0.001	−81.48	−2.52	−84.00	−83.58	0.42	0.050
	74	123	0.061	−0.011	0.000	−80.22	−3.35	−83.57	−83.42	0.15	0.030
	75	124	0.068	−0.016	0.001	−77.39	−3.91	−81.30	−81.06	0.24	0.050
	76	125	0.039	−0.011	0.001	−75.63	−5.07	−80.70	−80.42	0.28	0.080
	77	126	0.047	−0.011	0.001	−72.39	−5.71	−78.11	−77.81	0.30	0.080
	78	127	0.024	−0.006	0.000	−70.15	−7.01	−77.16	−77.01	0.15	0.070

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
49	79	128	0.032	−0.012	0.001	−66.54	−8.08	−74.62	−74.02	0.60	0.170
	80	129	0.011	−0.006	0.000	−63.84	−9.34	−73.19	−73.02	0.17	0.170
	81	130	0.024	−0.012	0.001	−59.86	−10.61	−70.47	−70.01	0.46	0.200
	82	131	0.011	0.000	0.000	−56.73	−11.60	−68.32	−68.49	−0.17	0.140
	83	132	0.018	0.012	0.000	−52.40	−10.75	−63.14			
	84	133	0.011	0.006	0.000	−48.83	−9.72	−58.55			
	85	134	0.018	0.006	0.000	−44.16	−8.56	−52.72			
	86	135	0.018	0.006	0.000	−40.19	−7.28	−47.48			
	87	136	0.024	0.012	0.000	−35.20	−6.07	−41.26			
	88	137	0.032	0.012	0.000	−30.84	−5.00	−35.84			
	89	138	0.039	0.013	0.001	−25.53	−3.81	−29.34			
50	47	97	0.011	0.006	0.000	−23.30	−8.59	−31.89			
	48	98	0.003	−0.006	0.000	−32.24	−9.17	−41.41			
	49	99	0.018	−0.012	0.001	−37.60	−9.48	−47.09			
	50	100	−0.003	0.006	0.000	−45.66	−9.79	−55.45			
	51	101	0.011	0.018	0.000	−49.54	−9.35	−58.90			
	52	102	0.003	0.006	0.000	−56.11	−8.76	−64.87			
	53	103	0.011	0.012	0.000	−59.25	−7.78	−67.03			
	54	104	0.018	0.012	0.000	−65.03	−6.62	−71.65			
	55	105	0.024	0.012	0.000	−67.46	−5.62	−73.08	−73.24	−0.16	0.080
	56	106	0.032	0.012	0.000	−72.48	−4.67	−77.15	−77.45	−0.30	0.060
	57	107	0.047	0.013	0.001	−74.25	−3.61	−77.86			
	58	108	0.039	0.007	0.000	−78.54	−2.93	−81.47	−82.05	−0.58	0.040
	59	109	0.053	−0.005	0.001	−79.69	−1.74	−81.43	−82.63	−1.21	0.010
	60	110	0.047	−0.005	0.000	−83.27	−1.72	−84.99	−85.83	−0.85	0.016
	61	111	0.047	−0.011	0.001	−83.84	−1.17	−85.00	−85.94	−0.94	0.007
	62	112	0.032	−0.006	0.000	−86.74	−1.26	−88.01	−88.66	−0.65	0.004
	63	113	−0.039	0.012	0.001	−86.75	−0.85	−87.60	−88.33	−0.73	0.004
	64	114	−0.018	0.006	0.000	−89.01	−1.16	−90.17	−90.56	−0.39	0.003
	65	115	−0.046	0.007	0.001	−88.49	−0.63	−89.12	−90.03	−0.92	0.003
	66	116	−0.024	0.006	0.000	−90.12	−1.15	−91.27	−91.53	−0.25	0.003
	67	117	−0.046	0.001	0.000	−89.10	−1.07	−90.17	−90.40	−0.23	0.003
	68	118	−0.024	0.000	0.000	−90.14	−1.52	−91.65	−91.65	0.00	0.003
	69	119	−0.039	0.001	0.000	−88.63	−1.48	−90.11	−90.07	0.04	0.003
	70	120	−0.018	0.000	0.000	−89.10	−2.13	−91.23	−91.10	0.13	0.003
	71	121	−0.032	−0.005	0.000	−87.14	−2.29	−89.43	−89.20	0.22	0.003
	72	122	−0.018	0.000	0.000	−87.05	−3.02	−90.07	−89.95	0.12	0.003
	73	123	−0.018	0.000	0.000	−84.66	−3.40	−88.06	−87.82	0.24	0.003
	74	124	−0.011	0.000	0.000	−84.04	−4.28	−88.33	−88.24	0.09	0.001
	75	125	−0.011	0.000	0.000	−81.23	−4.93	−86.17	−85.90	0.27	0.002
	76	126	−0.003	0.000	0.000	−80.11	−6.01	−86.12	−86.02	0.10	0.011
	77	127	−0.011	0.000	0.000	−76.90	−6.88	−83.77	−83.50	0.27	0.025
	78	128	−0.003	0.000	0.000	−75.29	−7.97	−83.26	−83.33	−0.07	0.050
	79	129	0.003	0.000	0.000	−71.69	−9.06	−80.76	−80.62	0.14	0.120
	80	130	0.003	0.000	0.000	−69.61	−10.28	−79.89	−80.13	−0.24	0.080
	81	131	−0.011	−0.006	0.000	−65.65	−11.47	−77.12	−77.38	−0.26	0.070
	82	132	−0.003	0.000	0.000	−63.12	−12.61	−75.73	−76.61	−0.88	0.080
	83	133	−0.011	−0.006	0.000	−58.81	−11.73	−70.54	−71.19	−0.65	0.220

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
50	84	134	−0.003	0.000	0.000	−55.85	−10.73	−66.58			
	85	135	0.003	0.000	0.000	−51.19	−9.48	−60.67			
	86	136	−0.003	0.000	0.000	−47.81	−8.25	−56.07			
	87	137	−0.003	0.000	0.000	−42.83	−7.03	−49.86			
	88	138	0.003	0.000	0.000	−39.05	−5.91	−44.96			
	89	139	0.003	0.000	0.000	−33.75	−4.65	−38.40			
	90	140	0.003	0.000	0.000	−29.59	−3.87	−33.46			
	91	141	0.032	0.018	0.001	−23.99	−2.77	−26.76			
	92	142	0.018	0.006	0.000	−19.45	−2.04	−21.50			
51	48	99	0.032	0.030	0.001	−21.60	−8.35	−29.95			
	49	100	0.039	0.031	0.000	−27.72	−8.41	−36.13			
	50	101	0.018	0.024	0.001	−35.90	−9.15	−45.05			
	51	102	0.047	0.049	0.001	−40.86	−8.20	−49.06			
	52	103	0.047	0.043	0.001	−47.88	−7.69	−55.57			
	53	104	0.068	0.050	0.001	−51.76	−6.26	−58.02			
	54	105	0.076	0.051	0.001	−57.66	−5.21	−62.87			
	55	106	0.097	0.052	0.001	−60.83	−4.35	−65.18			
	56	107	0.097	0.046	0.000	−65.98	−3.54	−69.52			
	57	108	0.105	0.041	0.001	−68.47	−2.70	−71.16			
	58	109	0.105	0.041	0.001	−72.89	−2.16	−75.05	−76.25	−1.20	0.019
	59	110	0.111	0.029	0.000	−74.75	−1.49	−76.23			
	60	111	0.111	0.029	0.000	−78.47	−1.24	−79.71			
	61	112	0.111	0.023	0.000	−79.72	−0.75	−80.47	−81.60	−1.13	0.023
	62	113	0.105	0.022	0.000	−82.78	−0.67	−83.44	−84.42	−0.98	0.024
	63	114	−0.116	0.016	−0.001	−83.46	−0.23	−83.69	−84.68	−0.99	0.200
	64	115	−0.116	0.016	−0.001	−85.86	−0.36	−86.22	−87.00	−0.78	0.020
	65	116	−0.123	0.017	−0.001	−86.01	−0.01	−86.03	−86.82	−0.79	0.006
	66	117	−0.123	0.011	0.000	−87.79	−0.31	−88.11	−88.64	−0.54	0.009
	67	118	−0.136	0.013	0.000	−87.43	−0.18	−87.61	−88.00	−0.39	0.004
	68	119	−0.123	0.005	0.000	−88.61	−0.67	−89.27	−89.47	−0.20	0.008
	69	120	−0.129	0.006	0.000	−87.75	−0.67	−88.42	−88.42	0.00	0.008
	70	121	−0.109	−0.002	−0.001	−88.36	−1.27	−89.63	−89.59	0.04	0.002
	71	122	−0.109	−0.007	0.000	−87.04	−1.42	−88.46	−88.33	0.13	0.002
	72	123	−0.102	−0.008	0.000	−87.09	−2.21	−89.30	−89.22	0.08	0.002
	73	124	−0.102	−0.014	0.000	−85.32	−2.56	−87.89	−87.62	0.27	0.002
	74	125	−0.081	−0.015	−0.001	−84.85	−3.43	−88.28	−88.26	0.02	0.003
	75	126	−0.081	−0.015	−0.001	−82.65	−3.93	−86.58	−86.40	0.19	0.030
	76	127	−0.053	−0.016	0.000	−81.66	−5.03	−86.70	−86.71	−0.01	0.006
	77	128	−0.060	−0.022	−0.001	−79.06	−5.82	−84.88	−84.61	0.27	0.040
	78	129	−0.032	−0.011	0.000	−77.58	−7.25	−84.83	−84.62	0.21	0.022
	79	130	−0.032	−0.017	0.000	−74.59	−8.39	−82.98	−82.33	0.65	0.070
	80	131	0.011	0.006	0.000	−72.64	−9.42	−82.05	−82.02	0.03	0.070
	81	132	−0.032	−0.017	0.000	−69.26	−10.27	−79.54	−79.73	−0.19	0.080
	82	133	−0.011	−0.006	0.000	−66.86	−11.50	−78.36	−79.02	−0.67	0.210
	83	134	−0.018	−0.018	0.000	−63.13	−10.50	−73.62	−74.02	−0.40	0.160
	84	135	−0.011	−0.006	0.000	−60.28	−9.71	−70.00			
	85	136	0.024	0.024	0.001	−56.20	−8.64	−64.84			
	86	137	0.032	0.024	0.001	−52.94	−7.32	−60.26			

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
51	87	138	0.061	0.050	0.001	−48.52	−5.99	−54.51			
	88	139	0.061	0.050	0.001	−44.85	−5.02	−49.87			
	89	140	0.082	0.051	0.000	−40.11	−4.00	−44.11			
	90	141	0.097	0.058	0.000	−36.05	−3.29	−39.34			
	91	142	0.119	0.067	0.000	−31.00	−2.40	−33.40			
	92	143	0.126	0.067	−0.001	−26.57	−1.92	−28.48			
	93	144	0.177	0.093	0.002	−21.21	−1.39	−22.60			
	94	145	0.177	0.080	0.001	−16.42	−0.96	−17.38			
52	49	101	0.032	0.018	0.001	−19.68	−8.14	−27.82			
	50	102	0.003	0.012	0.000	−28.62	−8.62	−37.24			
	51	103	0.039	0.037	0.001	−34.03	−7.89	−41.93			
	52	104	0.018	0.018	0.000	−42.12	−7.60	−49.72			
	53	105	0.119	0.079	−0.002	−46.11	−5.27	−51.38			
	54	106	0.119	0.067	0.000	−52.76	−4.46	−57.21			
	55	107	0.140	0.063	−0.001	−56.02	−3.38	−59.40			
	56	108	0.140	0.063	−0.001	−61.90	−2.62	−64.52			
	57	109	0.148	0.051	−0.001	−64.48	−1.94	−66.41	−67.62	−1.21	0.070
	58	110	0.154	0.052	−0.002	−69.62	−1.38	−71.00	−72.30	−1.30	0.060
	59	111	0.162	0.053	−0.002	−71.55	−0.78	−72.33	−73.47	−1.14	0.070
	60	112	0.162	0.053	−0.002	−75.98	−0.48	−76.46	−77.27	−0.81	0.170
	61	113	0.177	0.055	−0.001	−77.31	−0.05	−77.36			
	62	114	0.177	0.049	−0.001	−81.06	0.07	−80.99			
	63	115	0.192	0.051	0.001	−81.81	0.36	−81.45	−82.36	−0.91	0.230
	64	116	0.184	0.043	0.001	−84.89	0.24	−84.66	−85.29	−0.63	0.100
	65	117	0.199	0.040	0.001	−85.10	0.32	−84.78	−85.11	−0.34	0.019
	66	118	−0.149	0.014	0.000	−87.56	0.06	−87.49	−87.65	−0.16	0.023
	67	119	−0.164	0.015	−0.001	−87.24	0.30	−86.94	−87.18	−0.24	0.008
	68	120	−0.157	0.009	−0.001	−89.09	−0.15	−89.23	−89.39	−0.15	0.019
	69	121	−0.164	0.004	−0.001	−88.28	−0.22	−88.49	−88.55	−0.06	0.026
	70	122	−0.144	0.002	−0.001	−89.54	−0.79	−90.33	−90.31	0.02	0.003
	71	123	−0.137	−0.005	0.000	−88.26	−1.04	−89.30	−89.17	0.13	0.002
	72	124	−0.109	−0.007	0.000	−88.96	−1.82	−90.77	−90.53	0.25	0.002
	73	125	−0.116	−0.012	0.000	−87.22	−2.09	−89.31	−89.02	0.29	0.002
	74	126	−0.067	−0.010	0.000	−87.38	−3.12	−90.50	−90.07	0.44	0.002
	75	127	−0.075	−0.015	−0.001	−85.22	−3.58	−88.80	−88.29	0.52	0.004
	76	128	−0.024	−0.006	0.000	−84.86	−4.85	−89.71	−88.99	0.72	0.003
	77	129	−0.032	−0.005	0.000	−82.29	−5.61	−87.90	−87.01	0.89	0.004
	78	130	−0.003	0.000	0.000	−81.43	−6.72	−88.15	−87.35	0.80	0.004
	79	131	0.018	0.006	0.000	−78.46	−7.62	−86.08	−85.21	0.87	0.004
	80	132	0.003	0.000	0.000	−77.12	−8.83	−85.94	−85.22	0.72	0.012
	81	133	−0.018	−0.006	0.000	−73.77	−9.80	−83.57	−82.97	0.60	0.080
	82	134	−0.003	0.000	0.000	−71.96	−10.82	−82.79	−82.43	0.36	0.110
	83	135	−0.011	−0.006	0.000	−68.25	−10.00	−78.25	−77.87	0.38	0.090
	84	136	−0.003	0.000	0.000	−66.00	−9.03	−75.04	−74.46	0.57	0.050
	85	137	0.011	0.006	0.000	−61.94	−7.88	−69.81	−69.48	0.33	0.300
	86	138	−0.003	0.000	0.000	−59.26	−6.63	−65.89			
	87	139	0.076	0.063	0.000	−54.86	−5.13	−59.98			
	88	140	0.097	0.071	−0.001	−51.77	−4.28	−56.05			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
52	89	141	0.140	0.088	0.000	−47.04	−3.10	−50.13			
	90	142	0.140	0.088	0.000	−43.55	−2.58	−46.13			
	91	143	0.162	0.097	0.001	−38.51	−2.05	−40.56			
	92	144	0.162	0.097	0.001	−34.64	−1.58	−36.22			
	93	145	0.184	0.107	0.003	−29.30	−1.32	−30.61			
	94	146	0.184	0.094	0.002	−25.06	−0.87	−25.92			
53	49	102	0.061	0.025	0.001	−8.67	−6.46	−15.13			
	50	103	0.018	0.018	0.000	−17.72	−7.71	−25.43			
	51	104	0.082	0.057	0.000	−23.87	−6.30	−30.16			
	52	105	0.119	0.073	0.000	−32.07	−5.39	−37.46			
	53	106	0.133	0.074	0.000	−37.10	−4.31	−41.41			
	54	107	0.140	0.069	−0.001	−44.18	−3.55	−47.72			
	55	108	0.154	0.058	−0.002	−48.16	−2.79	−50.94			
	56	109	0.154	0.058	−0.002	−54.16	−2.09	−56.25			
	57	110	0.170	0.054	−0.001	−57.45	−1.42	−58.86			
	58	111	0.170	0.054	−0.001	−62.72	−1.06	−63.77			
	59	112	0.177	0.049	−0.001	−65.35	−0.67	−66.02			
	60	113	0.184	0.050	0.000	−69.91	−0.38	−70.29	−71.12	−0.83	0.050
	61	114	0.199	0.052	0.001	−71.92	−0.11	−72.03			
	62	115	0.199	0.046	0.001	−75.80	0.09	−75.71			
	63	116	0.214	0.042	0.002	−77.22	0.29	−76.94	−77.55	−0.61	0.140
	64	117	0.207	0.034	0.001	−80.45	0.32	−80.13			
	65	118	0.214	0.029	0.002	−81.32	0.46	−80.86			
	66	119	0.214	0.023	0.002	−83.91	0.34	−83.57	−83.78	−0.21	0.100
	67	120	0.214	0.017	0.001	−84.24	0.29	−83.95	−83.77	0.18	0.024
	68	121	−0.184	0.012	−0.001	−86.23	0.22	−86.00	−86.27	−0.27	0.020
	69	122	−0.191	0.007	−0.001	−86.06	0.11	−85.95	−86.07	−0.12	0.006
	70	123	−0.177	0.006	−0.001	−87.46	−0.34	−87.80	−87.94	−0.14	0.004
	71	124	0.178	0.012	0.001	−86.81	−0.52	−87.33	−87.37	−0.04	0.004
	72	125	0.155	0.021	0.000	−87.65	−1.01	−88.66	−88.85	−0.19	0.003
	73	126	0.155	0.015	0.001	−86.54	−1.25	−87.79	−87.92	−0.13	0.005
	74	127	−0.137	−0.010	0.000	−86.83	−2.25	−89.08	−88.98	0.10	0.004
	75	128	−0.129	−0.017	0.001	−85.28	−2.80	−88.08	−87.74	0.35	0.004
	76	129	−0.102	−0.014	0.000	−85.05	−3.71	−88.76	−88.51	0.26	0.004
	77	130	−0.109	−0.019	−0.001	−83.08	−4.40	−87.48	−86.90	0.58	0.010
	78	131	0.039	0.007	0.000	−82.35	−5.48	−87.82	−87.46	0.37	0.004
	79	132	0.039	0.013	0.001	−79.98	−6.47	−86.44	−85.71	0.73	0.011
	80	133	0.018	0.006	0.000	−78.76	−7.79	−86.54	−85.89	0.66	0.026
	81	134	−0.032	−0.011	0.000	−76.00	−8.59	−84.58	−83.99	0.59	0.060
	82	135	0.003	0.000	0.000	−74.32	−9.68	−83.99	−83.82	0.17	0.023
	83	136	0.032	0.024	0.001	−71.18	−8.81	−79.99	−79.55	0.44	0.040
	84	137	0.011	0.006	0.000	−69.05	−8.01	−77.06	−76.51	0.55	0.029
	85	138	0.053	0.037	0.001	−65.56	−6.23	−71.79	−72.29	−0.50	0.080
	86	139	0.076	0.057	0.001	−62.99	−5.15	−68.14	−68.88	−0.74	0.120
	87	140	0.119	0.073	0.000	−59.15	−4.51	−63.66			
	88	141	0.126	0.074	−0.001	−56.17	−3.61	−59.78			
	89	142	0.148	0.082	0.000	−52.00	−2.70	−54.70			
	90	143	0.154	0.077	0.000	−48.62	−2.14	−50.76			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
53	91	144	0.177	0.093	0.002	−44.12	−1.58	−45.70			
	92	145	0.177	0.093	0.002	−40.36	−1.25	−41.61			
	93	146	0.207	0.110	0.003	−35.55	−1.06	−36.61			
	94	147	0.199	0.096	0.003	−31.41	−0.65	−32.06			
54	50	104	0.024	0.018	0.001	−9.25	−6.59	−15.84			
	51	105	0.082	0.051	0.000	−15.53	−5.23	−20.76			
	52	106	0.119	0.067	0.000	−24.47	−4.55	−29.03			
	53	107	0.140	0.069	−0.001	−29.94	−3.58	−33.52			
	54	108	0.148	0.064	−0.001	−38.05	−2.87	−40.92			
	55	109	0.162	0.059	−0.001	−42.14	−2.17	−44.31			
	56	110	0.162	0.053	−0.002	−48.86	−1.50	−50.36			
	57	111	0.184	0.050	0.000	−52.24	−1.00	−53.24			
	58	112	0.184	0.043	0.001	−58.22	−0.65	−58.87			
	59	113	0.207	0.047	0.002	−60.94	−0.43	−61.37	−62.09	−0.72	0.090
	60	114	0.214	0.048	0.002	−66.19	−0.19	−66.39			
	61	115	0.236	0.065	0.002	−68.28	−0.11	−68.39			
	62	116	0.222	0.043	0.002	−72.85	0.27	−72.58			
	63	117	0.236	0.045	0.003	−74.35	0.37	−73.98			
	64	118	0.230	0.025	0.002	−78.25	0.54	−77.71			
	65	119	0.244	0.022	0.002	−79.18	0.56	−78.61	−78.75	−0.14	0.140
	66	120	0.230	0.013	0.001	−82.43	0.65	−81.79	−81.81	−0.02	0.050
	67	121	0.245	0.003	0.000	−82.83	0.53	−82.29	−82.51	−0.22	0.060
	68	122	0.223	0.006	0.001	−85.47	0.51	−84.96	−85.05	−0.09	0.140
	69	123	0.238	−0.010	−0.001	−85.35	0.34	−85.01	−85.26	−0.25	0.016
	70	124	0.215	−0.002	0.000	−87.40	0.23	−87.17	−87.66	−0.49	0.002
	71	125	0.208	−0.003	0.000	−86.79	0.12	−86.68	−87.19	−0.51	0.002
	72	126	0.178	0.005	0.001	−88.27	−0.22	−88.49	−89.17	−0.69	0.007
	73	127	0.170	0.004	0.001	−87.20	−0.50	−87.70	−88.32	−0.62	0.005
	74	128	0.155	0.003	0.001	−88.12	−1.17	−89.29	−89.86	−0.57	0.002
	75	129	0.148	0.002	0.001	−86.61	−1.66	−88.27	−88.70	−0.43	0.002
	76	130	−0.116	−0.018	0.000	−87.00	−2.87	−89.87	−89.88	−0.01	0.002
	77	131	−0.116	−0.024	0.000	−85.06	−3.53	−88.59	−88.43	0.16	0.004
	78	132	0.032	0.006	0.000	−84.94	−4.65	−89.60	−89.29	0.31	0.004
	79	133	0.039	0.007	0.000	−82.60	−5.52	−88.12	−87.66	0.46	0.005
	80	134	0.011	0.000	0.000	−81.99	−6.83	−88.82	−88.13	0.69	0.007
	81	135	0.032	0.006	0.000	−79.25	−7.47	−86.72	−86.51	0.21	0.011
	82	136	0.003	0.000	0.000	−78.17	−8.64	−86.81	−86.43	0.38	0.007
	83	137	0.024	0.012	0.000	−75.05	−7.85	−82.90	−82.38	0.52	0.007
	84	138	0.011	0.000	0.000	−73.51	−6.90	−80.41	−80.11	0.30	0.040
	85	139	0.047	0.025	0.000	−70.04	−5.65	−75.68	−75.69	−0.01	0.060
	86	140	0.076	0.051	0.001	−68.06	−4.20	−72.26	−72.99	−0.73	0.060
	87	141	0.126	0.067	−0.001	−64.23	−3.77	−68.00	−68.32	−0.32	0.090
	88	142	0.133	0.068	0.000	−61.83	−2.95	−64.78	−65.50	−0.72	0.100
	89	143	0.154	0.083	0.000	−57.67	−2.27	−59.94			
	90	144	0.162	0.078	0.000	−54.86	−1.75	−56.61			
	91	145	0.192	0.101	0.003	−50.37	−1.48	−51.85			
	92	146	0.199	0.103	0.003	−47.17	−1.22	−48.38			
	93	147	0.213	0.112	0.004	−42.37	−1.11	−43.48			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
54	94	148	0.213	0.099	0.003	−38.79	−0.70	−39.48			
	95	149	0.229	0.102	0.004	−33.69	−0.59	−34.28			
55	51	106	0.105	0.059	0.000	−4.26	−4.28	−8.54			
	52	107	0.140	0.069	−0.001	−13.30	−3.52	−16.82			
	53	108	0.162	0.065	−0.001	−19.48	−2.84	−22.32			
	54	109	0.162	0.059	−0.001	−27.70	−2.22	−29.92			
	55	110	0.170	0.054	−0.001	−32.80	−1.73	−34.53			
	56	111	0.184	0.043	0.001	−39.94	−1.16	−41.10			
	57	112	0.199	0.052	0.001	−44.02	−0.88	−44.90			
	58	113	0.207	0.041	0.001	−50.12	−0.58	−50.69			
	59	114	0.251	0.093	0.002	−53.52	−0.57	−54.08			
	60	115	0.251	0.087	0.002	−58.90	−0.35	−59.25			
	61	116	0.273	0.092	0.002	−61.67	−0.10	−61.77	−62.29	−0.52	0.290
	62	117	0.251	0.061	0.002	−66.36	0.10	−66.26	−66.26	0.00	0.180
	63	118	0.259	0.050	0.002	−68.52	0.23	−68.29	−68.27	0.02	0.130
	64	119	0.244	0.028	0.003	−72.55	0.49	−72.06	−72.24	−0.18	0.100
	65	120	0.252	0.023	0.002	−74.13	0.53	−73.60	−73.82	−0.22	0.080
	66	121	0.245	0.009	0.001	−77.52	0.62	−76.90	−77.11	−0.21	0.060
	67	122	0.261	0.000	−0.001	−78.56	0.56	−78.01	−78.14	−0.13	0.060
	68	123	0.237	−0.004	−0.001	−81.33	0.61	−80.72	−81.07	−0.35	0.040
	69	124	0.254	−0.020	−0.003	−81.85	0.45	−81.41	−81.74	−0.33	0.040
	70	125	0.223	−0.007	−0.001	−84.03	0.45	−83.58	−84.11	−0.53	0.017
	71	126	0.215	−0.008	−0.001	−84.05	0.37	−83.68	−84.35	−0.66	0.024
	72	127	0.200	−0.004	0.000	−85.66	0.20	−85.46	−86.24	−0.78	0.012
	73	128	0.193	−0.005	0.000	−85.21	0.03	−85.18	−85.93	−0.75	0.006
	74	129	0.170	−0.002	0.001	−86.26	−0.48	−86.74	−87.51	−0.77	0.005
	75	130	0.163	−0.003	0.001	−85.35	−0.96	−86.31	−86.85	−0.54	0.008
	76	131	0.141	0.001	0.001	−85.87	−1.69	−87.56	−88.08	−0.52	0.006
	77	132	0.133	0.000	0.001	−84.53	−2.45	−86.98	−87.17	−0.19	0.005
	78	133	0.068	0.008	0.000	−84.54	−3.33	−87.87	−88.09	−0.21	0.005
	79	134	0.068	0.008	0.000	−82.79	−4.25	−87.03	−86.91	0.13	0.005
	80	135	0.032	0.006	0.000	−82.30	−5.66	−87.96	−87.66	0.29	0.007
	81	136	0.047	0.007	0.000	−80.14	−6.17	−86.32	−86.35	−0.04	0.005
	82	137	0.011	0.000	0.000	−79.18	−7.56	−86.74	−86.56	0.18	0.005
	83	138	0.039	0.019	0.001	−76.64	−6.57	−83.21	−82.90	0.31	0.022
	84	139	0.024	0.006	0.000	−75.22	−5.84	−81.06	−80.71	0.35	0.007
	85	140	0.090	0.058	0.000	−72.31	−4.32	−76.63	−77.05	−0.42	0.016
	86	141	0.119	0.060	0.000	−70.44	−3.51	−73.96	−74.47	−0.52	0.016
	87	142	0.140	0.063	−0.001	−67.18	−2.94	−70.11	−70.54	−0.42	0.020
	88	143	0.148	0.064	−0.001	−64.88	−2.19	−67.07	−67.75	−0.67	0.028
	89	144	0.162	0.078	0.000	−61.28	−1.67	−62.95	−63.37	−0.42	0.040
	90	145	0.177	0.080	0.001	−58.57	−1.23	−59.80	−60.21	−0.41	0.050
	91	146	0.207	0.110	0.003	−54.63	−1.21	−55.84	−55.70	0.14	0.080
	92	147	0.213	0.112	0.004	−51.53	−1.02	−52.55	−52.30	0.25	0.110
	93	148	0.221	0.119	0.004	−47.27	−1.00	−48.27	−47.58	0.69	0.360
	94	149	0.229	0.108	0.004	−43.78	−0.67	−44.46			
	95	150	0.235	0.103	0.003	−39.22	−0.57	−39.78			
	96	151	0.235	0.097	0.003	−35.36	−0.28	−35.64			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
56	52	108	0.154	0.071	−0.001	−4.55	−2.86	−7.41			
	53	109	0.162	0.065	−0.001	−10.86	−2.30	−13.15			
	54	110	0.177	0.061	−0.001	−19.80	−1.66	−21.46			
	55	111	0.192	0.051	0.001	−25.31	−1.25	−26.57			
	56	112	0.207	0.047	0.002	−33.45	−0.80	−34.25			
	57	113	0.221	0.062	0.002	−37.63	−0.61	−38.25			
	58	114	0.243	0.072	0.001	−44.42	−0.47	−44.90			
	59	115	0.273	0.098	0.003	−47.92	−0.35	−48.27			
	60	116	0.288	0.095	0.003	−53.99	−0.25	−54.24			
	61	117	0.288	0.088	0.003	−56.84	−0.05	−56.89			
	62	118	0.281	0.074	0.002	−62.21	0.08	−62.14			
	63	119	0.289	0.056	0.003	−64.45	0.22	−64.23			
	64	120	0.274	0.040	0.002	−69.15	0.48	−68.67			
	65	121	0.283	0.023	0.002	−70.80	0.54	−70.26			
	66	122	0.275	0.009	0.000	−74.85	0.63	−74.22			
	67	123	0.276	−0.003	−0.002	−75.95	0.59	−75.36			
	68	124	0.268	−0.011	−0.002	−79.37	0.64	−78.73			
	69	125	0.269	−0.023	−0.004	−79.94	0.52	−79.42	−79.55	−0.13	0.250
	70	126	0.254	−0.026	−0.004	−82.76	0.60	−82.16			
	71	127	0.247	−0.027	−0.004	−82.83	0.40	−82.43	−82.79	−0.36	0.100
	72	128	0.215	−0.014	−0.002	−85.07	0.47	−84.60	−85.47	−0.87	0.018
	73	129	0.209	−0.015	−0.002	−84.66	0.32	−84.34	−85.08	−0.74	0.011
	74	130	0.185	−0.012	0.000	−86.34	−0.05	−86.39	−87.29	−0.90	0.007
	75	131	0.171	−0.014	0.000	−85.47	−0.56	−86.03	−86.71	−0.68	0.007
	76	132	0.149	−0.004	0.001	−86.61	−1.18	−87.79	−88.45	−0.65	0.008
	77	133	0.141	−0.011	0.000	−85.31	−1.93	−87.24	−87.57	−0.33	0.005
	78	134	0.076	0.002	0.000	−85.92	−2.95	−88.87	−88.96	−0.09	0.005
	79	135	0.068	0.002	0.000	−84.20	−3.86	−88.06	−87.87	0.19	0.005
	80	136	0.024	0.000	0.000	−84.31	−5.19	−89.50	−88.90	0.60	0.005
	81	137	0.047	0.001	0.000	−82.18	−5.62	−87.80	−87.73	0.07	0.005
	82	138	0.011	0.000	0.000	−81.81	−6.93	−88.74	−88.27	0.47	0.005
	83	139	0.039	0.019	0.001	−79.29	−6.02	−85.31	−84.92	0.39	0.005
	84	140	0.024	0.006	0.000	−78.46	−5.29	−83.75	−83.27	0.47	0.012
	85	141	0.082	0.045	0.001	−75.57	−3.71	−79.28	−79.73	−0.45	0.021
	86	142	0.119	0.060	0.000	−74.28	−2.83	−77.11	−77.85	−0.74	0.020
	87	143	0.148	0.064	−0.001	−71.03	−2.33	−73.36	−73.98	−0.62	0.028
	88	144	0.154	0.064	−0.001	−69.31	−1.64	−70.95	−71.84	−0.89	0.050
	89	145	0.177	0.080	0.001	−65.72	−1.26	−66.98	−68.12	−1.14	0.070
	90	146	0.191	0.089	0.002	−63.58	−0.96	−64.54	−65.06	−0.52	0.080
	91	147	0.213	0.118	0.003	−59.65	−1.00	−60.65	−61.50	−0.85	0.100
	92	148	0.229	0.121	0.004	−57.11	−0.90	−58.01			
	93	149	0.235	0.122	0.004	−52.86	−0.94	−53.80			
	94	150	0.235	0.109	0.004	−49.92	−0.62	−50.55			
	95	151	0.251	0.106	0.004	−45.37	−0.65	−46.01			
	96	152	0.251	0.093	0.002	−42.05	−0.35	−42.40			
	97	153	0.259	0.088	0.003	−37.19	−0.26	−37.46			
57	55	112	0.214	0.054	0.002	−14.57	−1.12	−15.69			
	56	113	0.221	0.056	0.002	−22.81	−0.76	−23.57			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
57	57	114	0.243	0.085	0.002	−27.98	−0.71	−28.68			
	58	115	0.265	0.096	0.003	−35.17	−0.67	−35.84			
	59	116	0.281	0.106	0.004	−39.35	−0.56	−39.90			
	60	117	0.295	0.103	0.004	−45.53	−0.51	−46.04			
	61	118	0.303	0.098	0.005	−49.05	−0.30	−49.35			
	62	119	0.296	0.077	0.003	−54.53	−0.21	−54.74			
	63	120	0.304	0.066	0.004	−57.43	−0.09	−57.52			
	64	121	0.289	0.050	0.003	−62.25	0.31	−61.93			
	65	122	0.297	0.033	0.002	−64.55	0.38	−64.17			
	66	123	0.283	0.017	0.001	−68.72	0.49	−68.23			
	67	124	0.284	0.004	−0.001	−70.46	0.46	−70.00			
	68	125	0.276	−0.003	−0.002	−74.01	0.55	−73.45			
	69	126	0.277	−0.022	−0.005	−75.21	0.47	−74.74			
	70	127	0.277	−0.022	−0.005	−78.15	0.56	−77.59			
	71	128	0.269	−0.023	−0.004	−78.85	0.46	−78.39	−78.82	−0.43	0.400
	72	129	0.223	0.000	0.000	−81.21	0.62	−80.59	−81.36	−0.77	0.050
	73	130	0.215	−0.008	−0.001	−81.41	0.52	−80.89			
	74	131	0.200	−0.004	0.000	−83.21	0.38	−82.83	−83.75	−0.92	0.100
	75	132	0.185	−0.018	−0.001	−82.95	0.05	−82.90	−83.74	−0.84	0.050
	76	133	0.163	−0.021	−0.001	−84.21	−0.52	−84.73			
	77	134	0.149	−0.022	−0.001	−83.50	−1.24	−84.74	−85.25	−0.52	0.026
	78	135	0.097	−0.009	0.000	−84.24	−2.18	−86.42	−86.67	−0.25	0.011
	79	136	0.090	−0.009	0.000	−83.10	−3.13	−86.23	−86.03	0.20	0.070
	80	137	0.039	0.001	0.000	−83.33	−4.20	−87.53	−87.13	0.40	0.050
	81	138	0.053	−0.005	0.001	−81.78	−4.65	−86.43	−86.53	−0.10	0.005
	82	139	0.018	0.000	0.000	−81.53	−5.98	−87.51	−87.24	0.27	0.004
	83	140	0.047	0.007	0.000	−79.59	−4.99	−84.57	−84.33	0.24	0.004
	84	141	0.032	0.000	0.000	−78.86	−4.34	−83.20	−82.98	0.22	0.025
	85	142	0.126	0.061	−0.001	−76.54	−2.74	−79.28	−80.03	−0.75	0.007
	86	143	0.140	0.063	−0.001	−75.36	−2.27	−77.63	−78.20	−0.57	0.017
	87	144	0.154	0.071	−0.001	−72.67	−1.72	−74.39	−74.94	−0.55	0.060
	88	145	0.170	0.073	0.000	−71.06	−1.17	−72.23	−73.02	−0.79	0.070
	89	146	0.191	0.089	0.002	−68.01	−0.93	−68.94	−69.20	−0.26	0.070
	90	147	0.207	0.098	0.003	−65.98	−0.74	−66.72	−67.25	−0.53	0.080
	91	148	0.221	0.119	0.004	−62.60	−0.96	−63.56	−63.81	−0.25	0.150
	92	149	0.235	0.122	0.004	−60.15	−0.96	−61.11			
	93	150	0.243	0.124	0.005	−56.44	−1.03	−57.47			
	94	151	0.251	0.112	0.004	−53.60	−0.83	−54.44			
	95	152	0.259	0.108	0.004	−49.57	−0.83	−50.40			
	96	153	0.259	0.095	0.002	−46.36	−0.51	−46.87			
	97	154	0.265	0.090	0.002	−42.02	−0.48	−42.50			
	98	155	0.266	0.077	0.001	−38.44	−0.24	−38.68			
58	56	114	0.251	0.074	0.002	−14.59	−0.72	−15.32			
	57	115	0.265	0.090	0.002	−20.16	−0.63	−20.79			
	58	116	0.281	0.093	0.003	−28.32	−0.56	−28.88			
	59	117	0.296	0.097	0.004	−32.60	−0.60	−33.20			
	60	118	0.311	0.094	0.005	−39.46	−0.55	−40.01			
	61	119	0.312	0.087	0.005	−43.07	−0.42	−43.49			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
58	62	120	0.312	0.075	0.004	−49.22	−0.32	−49.55			
	63	121	0.312	0.068	0.004	−52.20	−0.27	−52.47			
	64	122	0.313	0.049	0.002	−57.68	0.01	−57.67			
	65	123	0.313	0.036	0.002	−60.05	0.06	−59.99			
	66	124	0.306	0.028	0.000	−64.88	0.31	−64.57			
	67	125	0.298	0.014	0.000	−66.68	0.33	−66.35			
	68	126	0.290	0.006	−0.001	−70.87	0.46	−70.41			
	69	127	0.291	−0.013	−0.004	−72.13	0.31	−71.83			
	70	128	0.285	−0.014	−0.004	−75.71	0.48	−75.23			
	71	129	0.277	−0.022	−0.005	−76.46	0.44	−76.01			
	72	130	0.246	−0.015	−0.002	−79.45	0.52	−78.93			
	73	131	0.223	−0.019	−0.002	−79.70	0.49	−79.21	−79.73	−0.52	0.410
	74	132	0.209	−0.015	−0.002	−82.12	0.45	−81.67			
	75	133	0.193	−0.023	−0.002	−81.90	0.13	−81.77			
	76	134	0.163	−0.021	−0.001	−83.77	−0.33	−84.10	−84.75	−0.65	0.200
	77	135	0.156	−0.022	−0.001	−83.10	−0.95	−84.04	−84.64	−0.60	0.012
	78	136	0.119	−0.013	0.000	−84.43	−1.85	−86.29	−86.50	−0.21	0.050
	79	137	0.090	−0.009	0.000	−83.33	−2.97	−86.30	−85.91	0.39	0.050
	80	138	0.032	0.000	0.000	−84.16	−3.98	−88.13	−87.57	0.56	0.011
	81	139	0.053	−0.005	0.001	−82.64	−4.40	−87.04	−86.97	0.07	0.013
	82	140	0.011	0.000	0.000	−82.97	−5.67	−88.64	−88.09	0.55	0.004
	83	141	0.039	0.013	0.001	−81.06	−4.79	−85.85	−85.44	0.40	0.004
	84	142	0.024	0.000	0.000	−80.91	−4.11	−85.02	−84.54	0.48	0.004
	85	143	0.119	0.054	0.000	−78.61	−2.51	−81.13	−81.62	−0.49	0.004
	86	144	0.140	0.056	−0.001	−78.01	−1.92	−79.93	−80.44	−0.51	0.004
	87	145	0.162	0.065	−0.001	−75.34	−1.37	−76.71	−77.11	−0.40	0.040
	88	146	0.177	0.074	0.001	−74.29	−0.89	−75.19	−75.73	−0.54	0.070
	89	147	0.199	0.090	0.002	−71.27	−0.77	−72.03	−72.19	−0.16	0.060
	90	148	0.213	0.099	0.003	−69.79	−0.65	−70.44	−70.43	0.01	0.120
	91	149	0.229	0.115	0.004	−66.42	−0.92	−67.34	−66.80	0.54	0.080
	92	150	0.243	0.117	0.004	−64.53	−0.94	−65.47	−64.99	0.48	0.120
	93	151	0.251	0.119	0.004	−60.83	−1.09	−61.92			
	94	152	0.259	0.108	0.004	−58.54	−0.91	−59.45			
	95	153	0.265	0.103	0.004	−54.52	−0.98	−55.50			
	96	154	0.265	0.096	0.003	−51.85	−0.73	−52.58			
	97	155	0.273	0.085	0.002	−47.52	−0.72	−48.24			
	98	156	0.273	0.079	0.002	−44.47	−0.55	−45.02			
	99	157	0.274	0.066	0.002	−39.84	−0.54	−40.38			
59	57	116	0.281	0.100	0.004	−9.13	−0.85	−9.98			
	58	117	0.288	0.095	0.003	−17.40	−0.79	−18.19			
	59	118	0.296	0.097	0.004	−22.63	−0.82	−23.44			
	60	119	0.311	0.100	0.006	−29.87	−0.71	−30.58			
	61	120	0.311	0.094	0.005	−34.14	−0.65	−34.79			
	62	121	0.312	0.081	0.004	−40.41	−0.61	−41.01			
	63	122	0.319	0.063	0.004	−44.03	−0.63	−44.66			
	64	123	0.319	0.057	0.003	−49.62	−0.34	−49.96			
	65	124	0.320	0.044	0.002	−52.64	−0.28	−52.92			
	66	125	0.313	0.036	0.002	−57.58	−0.05	−57.63			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
59	67	126	0.314	0.024	0.000	−60.02	−0.04	−60.06			
	68	127	0.306	0.022	0.000	−64.32	0.15	−64.17			
	69	128	0.307	0.003	−0.003	−66.21	0.02	−66.19			
	70	129	0.299	0.001	−0.002	−69.90	0.25	−69.65			
	71	130	0.291	−0.007	−0.003	−71.27	0.28	−70.99			
	72	131	0.276	0.003	0.000	−74.37	0.42	−73.95			
	73	132	0.245	−0.003	−0.001	−75.23	0.32	−74.91			
	74	133	0.215	−0.008	−0.001	−77.77	0.52	−77.25			
	75	134	0.201	−0.022	−0.002	−78.15	0.32	−77.83			
	76	135	0.179	−0.025	−0.001	−80.14	0.06	−80.07	−80.92	−0.85	0.150
	77	136	0.164	−0.027	−0.001	−80.06	−0.45	−80.51	−81.37	−0.86	0.050
	78	137	0.133	−0.018	0.000	−81.51	−1.17	−82.68	−83.20	−0.52	0.050
	79	138	0.112	−0.020	0.001	−80.99	−2.26	−83.25	−83.14	0.11	0.015
	80	139	0.047	−0.005	0.000	−81.94	−3.18	−85.11	−84.84	0.27	0.013
	81	140	0.061	−0.011	0.000	−80.99	−3.61	−84.60	−84.70	−0.10	0.007
	82	141	0.018	0.000	0.000	−81.44	−4.88	−86.32	−86.03	0.30	0.003
	83	142	0.047	0.007	0.000	−80.09	−3.96	−84.05	−83.80	0.25	0.003
	84	143	0.032	0.000	0.000	−80.06	−3.39	−83.45	−83.08	0.38	0.003
	85	144	0.140	0.063	−0.001	−78.32	−1.74	−80.06	−80.76	−0.70	0.004
	86	145	0.162	0.065	−0.001	−77.83	−1.35	−79.17	−79.64	−0.46	0.008
	87	146	0.177	0.074	0.001	−75.71	−1.00	−76.71	−76.76	−0.05	0.060
	88	147	0.199	0.084	0.002	−74.77	−0.68	−75.45	−75.47	−0.02	0.040
	89	148	0.213	0.092	0.002	−72.29	−0.63	−72.92	−72.49	0.43	0.220
	90	149	0.229	0.108	0.004	−70.92	−0.70	−71.62	−70.99	0.63	0.011
	91	150	0.235	0.116	0.004	−68.09	−0.99	−69.08	−68.00	1.08	0.080
	92	151	0.251	0.119	0.004	−66.30	−1.01	−67.31			
	93	152	0.259	0.121	0.005	−63.13	−1.16	−64.29			
	94	153	0.265	0.109	0.003	−60.94	−1.02	−61.96			
	95	154	0.265	0.103	0.004	−57.45	−1.13	−58.58			
	96	155	0.273	0.092	0.002	−54.87	−0.85	−55.72			
	97	156	0.273	0.085	0.002	−51.06	−0.89	−51.95			
	98	157	0.273	0.079	0.002	−48.10	−0.72	−48.83			
	99	158	0.273	0.072	0.002	−43.99	−0.77	−44.75			
	100	159	0.274	0.066	0.002	−40.67	−0.57	−41.24			
	101	160	0.282	0.055	0.002	−36.26	−0.67	−36.92			
60	59	119	0.318	0.096	0.006	−14.48	−0.92	−15.40			
	60	120	0.326	0.098	0.007	−22.67	−0.87	−23.54			
	61	121	0.334	0.093	0.007	−27.03	−0.87	−27.90			
	62	122	0.335	0.080	0.006	−33.96	−0.77	−34.73			
	63	123	0.335	0.074	0.005	−37.68	−0.75	−38.43			
	64	124	0.335	0.061	0.003	−43.92	−0.48	−44.40			
	65	125	0.336	0.048	0.001	−47.01	−0.44	−47.45			
	66	126	0.336	0.042	0.000	−52.59	−0.18	−52.78			
	67	127	0.329	0.027	−0.001	−55.10	−0.15	−55.25			
	68	128	0.329	0.021	−0.002	−60.04	−0.01	−60.06			
	69	129	0.322	0.000	−0.003	−62.00	−0.09	−62.09			
	70	130	0.315	0.005	−0.003	−66.32	0.16	−66.16			
	71	131	0.307	−0.003	−0.004	−67.74	0.25	−67.49			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
60	72	132	0.298	0.008	−0.001	−71.47	0.42	−71.04			
	73	133	0.254	−0.008	−0.001	−72.38	0.26	−72.12			
	74	134	0.223	−0.013	−0.002	−75.53	0.48	−75.04			
	75	135	0.209	−0.021	−0.002	−75.95	0.37	−75.58			
	76	136	0.186	−0.024	−0.001	−78.54	0.12	−78.43	−79.16	−0.73	0.060
	77	137	0.164	−0.033	−0.001	−78.50	−0.39	−78.90	−79.70	−0.80	0.070
	78	138	0.134	−0.024	0.001	−80.56	−1.13	−81.68			
	79	139	−0.144	−0.032	0.002	−80.07	−1.75	−81.82	−82.06	−0.24	0.040
	80	140	0.039	−0.005	0.000	−81.61	−3.17	−84.78	−84.47	0.31	0.020
	81	141	0.053	−0.011	0.000	−80.70	−3.64	−84.33	−84.20	0.13	0.004
	82	142	0.011	0.000	0.000	−81.73	−4.79	−86.52	−85.96	0.56	0.003
	83	143	0.039	0.007	0.000	−80.41	−3.96	−84.36	−84.01	0.35	0.003
	84	144	0.024	0.000	0.000	−80.95	−3.33	−84.28	−83.76	0.52	0.003
	85	145	0.133	0.056	−0.001	−79.24	−1.66	−80.90	−81.44	−0.54	0.003
	86	146	0.154	0.058	−0.002	−79.31	−1.17	−80.49	−80.93	−0.45	0.003
	87	147	0.177	0.068	0.000	−77.22	−0.79	−78.01	−78.16	−0.14	0.003
	88	148	0.207	0.079	0.002	−76.84	−0.53	−77.37	−77.42	−0.05	0.004
	89	149	0.221	0.094	0.003	−74.38	−0.54	−74.92	−74.39	0.53	0.004
	90	150	0.243	0.105	0.003	−73.57	−0.61	−74.18	−73.69	0.49	0.004
	91	151	0.251	0.119	0.004	−70.75	−0.94	−71.69	−70.96	0.73	0.004
	92	152	0.265	0.122	0.005	−69.51	−0.96	−70.48	−70.16	0.32	0.030
	93	153	0.265	0.122	0.005	−66.36	−1.18	−67.54			
	94	154	0.273	0.111	0.004	−64.71	−1.09	−65.80			
	95	155	0.273	0.104	0.004	−61.23	−1.24	−62.47			
	96	156	0.273	0.098	0.003	−59.19	−1.06	−60.25			
	97	157	0.281	0.087	0.002	−55.39	−1.12	−56.51			
	98	158	0.281	0.080	0.002	−52.96	−1.01	−53.97			
	99	159	0.281	0.074	0.002	−48.86	−1.04	−49.90			
	100	160	0.288	0.063	0.002	−46.06	−0.89	−46.95			
	101	161	0.289	0.050	0.003	−41.66	−0.99	−42.64			
	102	162	0.289	0.043	0.003	−38.50	−0.79	−39.29			
61	66	127	0.344	0.044	−0.001	−44.17	−0.65	−44.82			
	67	128	0.345	0.032	−0.002	−47.31	−0.52	−47.82			
	68	129	0.336	0.029	−0.001	−52.35	−0.45	−52.80			
	69	130	0.338	0.011	−0.003	−54.92	−0.47	−55.40			
	70	131	0.337	0.017	−0.002	−59.36	−0.22	−59.58			
	71	132	0.329	0.015	−0.002	−61.39	−0.17	−61.56			
	72	133	0.329	0.021	−0.002	−65.23	0.13	−65.10			
	73	134	0.329	0.027	−0.001	−66.74	0.27	−66.47			
	74	135	0.320	0.032	0.000	−70.00	0.48	−69.52			
	75	136	0.216	−0.020	−0.002	−71.02	0.36	−70.66			
	76	137	0.201	−0.022	−0.002	−73.73	0.33	−73.40	−74.02	−0.62	0.150
	77	138	0.171	−0.032	−0.001	−74.28	−0.07	−74.34			
	78	139	0.156	−0.022	−0.001	−76.44	−0.61	−77.05	−77.54	−0.49	0.050
	79	140	−0.150	−0.032	0.002	−76.54	−1.16	−77.70	−78.38	−0.68	0.040
	80	141	0.024	0.000	0.000	−78.18	−2.78	−80.96	−80.47	0.49	0.029
	81	142	−0.060	−0.010	0.000	−77.84	−3.49	−81.33	−81.09	0.24	0.040
	82	143	0.003	0.000	0.000	−78.98	−4.20	−83.18	−82.97	0.22	0.004

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
61	83	144	0.039	0.013	0.001	−78.22	−3.46	−81.69	−81.43	0.26	0.004
	84	145	0.011	0.000	0.000	−78.88	−2.84	−81.72	−81.28	0.44	0.004
	85	146	0.148	0.057	−0.001	−77.72	−1.33	−79.05	−79.46	−0.41	0.006
	86	147	0.162	0.059	−0.001	−77.90	−0.75	−78.65	−79.05	−0.40	0.003
	87	148	0.191	0.070	0.001	−76.36	−0.55	−76.91	−76.87	0.04	0.011
	88	149	0.213	0.080	0.003	−76.09	−0.36	−76.45	−76.07	0.37	0.005
	89	150	0.229	0.089	0.002	−74.17	−0.40	−74.57	−73.61	0.96	0.020
	90	151	0.251	0.100	0.003	−73.46	−0.61	−74.07	−73.40	0.67	0.006
	91	152	0.259	0.114	0.004	−71.18	−0.92	−72.10	−71.27	0.83	0.070
	92	153	0.265	0.116	0.004	−70.04	−0.97	−71.01	−70.67	0.34	0.016
	93	154	0.273	0.111	0.004	−67.42	−1.11	−68.53	−68.41	0.12	0.110
	94	155	0.273	0.104	0.004	−65.87	−1.14	−67.01			
	95	156	0.281	0.100	0.004	−62.91	−1.33	−64.24			
	96	157	0.281	0.093	0.003	−60.96	−1.18	−62.14			
	97	158	0.288	0.082	0.003	−57.68	−1.28	−58.96			
	98	159	0.288	0.075	0.003	−55.35	−1.21	−56.55			
	99	160	0.288	0.069	0.002	−51.75	−1.23	−52.98			
	100	161	0.296	0.058	0.003	−49.04	−1.14	−50.18			
	101	162	0.297	0.052	0.002	−45.14	−1.23	−46.37			
	102	163	0.305	0.041	0.002	−42.08	−1.07	−43.14			
	103	164	0.306	0.028	0.000	−37.88	−1.18	−39.06			
62	69	131	0.331	−0.010	−0.005	−49.60	−0.49	−50.09			
	70	132	0.323	−0.012	−0.005	−54.66	−0.26	−54.92			
	71	133	0.316	−0.014	−0.005	−56.75	−0.09	−56.85			
	72	134	0.315	−0.001	−0.004	−61.20	0.08	−61.13			
	73	135	0.315	0.005	−0.003	−62.77	0.14	−62.63			
	74	136	0.238	−0.016	−0.002	−66.64	0.32	−66.32			
	75	137	0.216	−0.026	−0.002	−67.71	0.32	−67.39			
	76	138	0.209	−0.027	−0.002	−71.01	0.24	−70.77			
	77	139	0.172	−0.038	−0.002	−71.61	−0.22	−71.82	−72.08	−0.25	0.120
	78	140	0.156	−0.028	−0.001	−74.36	−0.89	−75.25			
	79	141	−0.150	−0.037	0.002	−74.50	−1.31	−75.81	−75.94	−0.14	0.013
	80	142	0.032	−0.006	0.000	−76.73	−2.87	−79.60	−78.99	0.61	0.015
	81	143	0.053	−0.011	0.000	−76.42	−3.46	−79.88	−79.53	0.35	0.005
	82	144	0.011	0.000	0.000	−78.14	−4.29	−82.43	−81.97	0.46	0.004
	83	145	−0.032	0.006	0.000	−77.42	−3.59	−81.00	−80.66	0.34	0.004
	84	146	0.018	0.000	0.000	−78.64	−2.95	−81.60	−81.00	0.60	0.005
	85	147	0.140	0.050	−0.001	−77.51	−1.45	−78.97	−79.28	−0.31	0.003
	86	148	0.162	0.053	−0.002	−78.26	−0.69	−78.95	−79.35	−0.40	0.003
	87	149	0.184	0.062	0.000	−76.74	−0.41	−77.15	−77.15	0.00	0.003
	88	150	0.213	0.067	0.002	−77.03	−0.14	−77.16	−77.06	0.10	0.003
	89	151	0.221	0.075	0.002	−75.13	−0.17	−75.30	−74.59	0.71	0.003
	90	152	0.243	0.085	0.002	−74.97	−0.37	−75.34	−74.77	0.56	0.003
	91	153	0.259	0.101	0.003	−72.71	−0.69	−73.40	−72.57	0.83	0.003
	92	154	0.265	0.103	0.004	−72.12	−0.76	−72.88	−72.46	0.41	0.003
	93	155	0.273	0.104	0.004	−69.51	−0.88	−70.39	−70.20	0.19	0.003
	94	156	0.273	0.092	0.002	−68.50	−0.92	−69.42	−69.37	0.04	0.010
	95	157	0.281	0.087	0.002	−65.56	−1.09	−66.64	−66.87	−0.23	0.200

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
62	96	158	0.281	0.080	0.002	−64.14	−1.01	−65.15			
	97	159	0.281	0.074	0.002	−60.87	−1.12	−61.99			
	98	160	0.288	0.063	0.002	−59.06	−1.08	−60.15			
	99	161	0.289	0.056	0.003	−55.48	−1.18	−56.66			
	100	162	0.297	0.045	0.002	−53.29	−1.12	−54.41			
	101	163	0.297	0.033	0.002	−49.40	−1.26	−50.66			
	102	164	0.298	0.026	0.001	−46.85	−1.11	−47.96			
	103	165	0.298	0.014	0.000	−42.66	−1.25	−43.91			
	104	166	0.290	0.006	−0.001	−39.75	−1.04	−40.80			
63	70	133	0.331	−0.016	−0.006	−46.58	−0.65	−47.23			
	71	134	0.323	−0.012	−0.005	−49.28	−0.51	−49.79			
	72	135	0.315	−0.007	−0.004	−53.84	−0.31	−54.15			
	73	136	0.315	−0.001	−0.004	−56.01	−0.22	−56.23			
	74	137	0.299	0.001	−0.002	−59.98	−0.02	−60.00			
	75	138	0.224	−0.025	−0.002	−61.64	0.19	−61.44			
	76	139	0.216	−0.026	−0.002	−65.05	0.24	−64.81			
	77	140	0.186	−0.036	−0.002	−66.22	−0.10	−66.33			
	78	141	0.164	−0.027	−0.001	−69.09	−0.61	−69.70	−69.98	−0.28	0.040
	79	142	−0.157	−0.031	0.002	−69.80	−0.99	−70.78	−71.59	−0.81	0.100
	80	143	−0.150	−0.020	0.001	−72.13	−1.76	−73.89	−74.38	−0.49	0.030
	81	144	−0.067	−0.010	0.000	−72.40	−3.05	−75.45	−75.65	−0.20	0.022
	82	145	0.003	0.000	0.000	−74.22	−3.88	−78.11	−78.00	0.11	0.005
	83	146	−0.039	0.012	0.001	−74.06	−3.14	−77.19	−77.13	0.07	0.008
	84	147	−0.018	0.000	0.000	−75.39	−2.57	−77.96	−77.56	0.41	0.004
	85	148	0.154	0.052	−0.002	−74.81	−1.00	−75.81	−76.24	−0.43	0.018
	86	149	0.177	0.055	−0.001	−75.66	−0.42	−76.09	−76.46	−0.37	0.005
	87	150	0.199	0.058	0.001	−74.69	−0.20	−74.89	−74.80	0.09	0.007
	88	151	0.214	0.061	0.002	−75.08	−0.01	−75.09	−74.66	0.43	0.003
	89	152	0.221	0.068	0.002	−73.72	−0.06	−73.78	−72.90	0.88	0.003
	90	153	0.243	0.079	0.002	−73.66	−0.28	−73.94	−73.38	0.56	0.003
	91	154	0.259	0.088	0.003	−71.94	−0.60	−72.54	−71.75	0.79	0.003
	92	155	0.265	0.090	0.002	−71.44	−0.66	−72.10	−71.83	0.27	0.003
	93	156	0.273	0.092	0.002	−69.36	−0.77	−70.13	−70.10	0.03	0.007
	94	157	0.273	0.085	0.002	−68.45	−0.85	−69.30	−69.47	−0.17	0.006
	95	158	0.273	0.079	0.002	−66.02	−1.02	−67.04	−67.22	−0.18	0.080
	96	159	0.281	0.074	0.002	−64.70	−1.02	−65.72	−66.06	−0.34	0.009
	97	160	0.282	0.068	0.003	−61.94	−1.12	−63.06			
	98	161	0.289	0.056	0.003	−60.23	−1.13	−61.35			
	99	162	0.297	0.045	0.002	−57.15	−1.32	−58.47			
	100	163	0.297	0.039	0.003	−55.05	−1.26	−56.32			
	101	164	0.306	0.028	0.000	−51.67	−1.48	−53.15			
	102	165	0.298	0.020	0.000	−49.20	−1.33	−50.53			
	103	166	0.306	0.009	−0.002	−45.51	−1.52	−47.03			
	104	167	0.298	0.008	−0.001	−42.68	−1.32	−44.00			
	105	168	0.291	−0.007	−0.003	−38.70	−1.37	−40.07			
	106	169	0.285	−0.014	−0.004	−35.53	−1.14	−36.67			
	107	170	0.277	−0.022	−0.005	−31.26	−1.20	−32.46			
64	71	135	0.309	−0.034	−0.006	−43.56	−0.53	−44.09			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
64	72	136	0.300	−0.023	−0.006	−48.72	−0.31	−49.04			
	73	137	0.292	−0.025	−0.005	−50.95	−0.22	−51.17			
	74	138	0.254	−0.026	−0.004	−55.52	−0.01	−55.53			
	75	139	0.224	−0.031	−0.003	−57.24	0.08	−57.15			
	76	140	0.216	−0.032	−0.003	−61.24	0.09	−61.15			
	77	141	0.194	−0.035	−0.003	−62.46	−0.34	−62.81			
	78	142	−0.164	−0.024	0.002	−65.91	−1.13	−67.05			
	79	143	−0.157	−0.036	0.002	−66.67	−1.31	−67.98			
	80	144	−0.150	−0.026	0.001	−69.58	−1.71	−71.29			
	81	145	−0.067	−0.010	0.000	−69.89	−3.38	−73.26	−72.95	0.31	0.040
	82	146	−0.003	0.000	0.000	−72.28	−4.25	−76.53	−76.10	0.43	0.011
	83	147	−0.039	0.006	0.000	−72.15	−3.45	−75.60	−75.37	0.23	0.004
	84	148	−0.018	0.000	0.000	−74.05	−2.89	−76.94	−76.28	0.66	0.004
	85	149	0.140	0.044	−0.001	−73.50	−1.35	−74.86	−75.14	−0.28	0.005
	86	150	0.162	0.047	−0.002	−74.91	−0.55	−75.46	−75.77	−0.31	0.007
	87	151	0.184	0.050	0.000	−73.97	−0.19	−74.15	−74.20	−0.05	0.004
	88	152	0.214	0.048	0.002	−74.91	0.11	−74.80	−74.72	0.08	0.003
	89	153	0.214	0.061	0.002	−73.58	0.12	−73.46	−72.89	0.56	0.003
	90	154	0.236	0.065	0.002	−74.06	0.00	−74.07	−73.72	0.35	0.003
	91	155	0.251	0.080	0.001	−72.36	−0.29	−72.65	−72.08	0.57	0.003
	92	156	0.265	0.083	0.002	−72.41	−0.30	−72.71	−72.55	0.17	0.003
	93	157	0.265	0.083	0.002	−70.35	−0.54	−70.88	−70.83	0.05	0.003
	94	158	0.273	0.072	0.002	−69.97	−0.50	−70.46	−70.70	−0.24	0.003
	95	159	0.273	0.072	0.002	−67.56	−0.74	−68.30	−68.57	−0.27	0.003
	96	160	0.282	0.061	0.002	−66.76	−0.71	−67.48	−67.95	−0.47	0.003
	97	161	0.282	0.061	0.002	−64.02	−0.87	−64.90	−65.52	−0.62	0.003
	98	162	0.289	0.043	0.003	−62.83	−0.94	−63.77	−64.24	−0.47	0.110
	99	163	0.289	0.037	0.002	−59.77	−1.13	−60.90			
	100	164	0.298	0.026	0.001	−58.19	−1.16	−59.34			
	101	165	0.298	0.020	0.000	−54.81	−1.40	−56.20			
	102	166	0.298	0.008	−0.001	−52.85	−1.34	−54.19			
	103	167	0.299	0.001	−0.002	−49.17	−1.56	−50.73			
	104	168	0.291	−0.007	−0.003	−46.85	−1.41	−48.26			
	105	169	0.285	−0.014	−0.004	−42.88	−1.51	−44.38			
	106	170	0.285	−0.020	−0.005	−40.20	−1.40	−41.60			
	107	171	0.278	−0.034	−0.006	−35.94	−1.52	−37.46			
	108	172	0.278	−0.040	−0.005	−32.93	−1.35	−34.28			
	109	173	0.279	−0.052	−0.006	−28.40	−1.41	−29.81			
65	72	137	0.308	−0.028	−0.005	−40.27	−0.70	−40.97			
	73	138	0.292	−0.031	−0.005	−43.09	−0.56	−43.65			
	74	139	0.269	−0.029	−0.005	−47.76	−0.29	−48.06			
	75	140	0.232	−0.030	−0.004	−50.06	−0.12	−50.18			
	76	141	0.224	−0.031	−0.003	−54.17	−0.06	−54.23			
	77	142	0.216	−0.032	−0.003	−55.97	−0.26	−56.23			
	78	143	−0.178	−0.023	0.002	−59.52	−1.03	−60.55			
	79	144	−0.164	−0.036	0.002	−60.84	−1.17	−62.02			
	80	145	−0.157	−0.025	0.001	−63.86	−1.70	−65.56			
	81	146	−0.088	−0.009	0.000	−64.72	−3.03	−67.75	−67.86	−0.11	0.150

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
65	82	147	−0.011	0.000	0.000	−67.23	−4.00	−71.23	−70.88	0.35	0.060
	83	148	−0.052	0.013	0.000	−67.65	−3.08	−70.73	−70.68	0.05	0.050
	84	149	−0.046	0.007	0.001	−69.65	−2.60	−72.25	−71.50	0.75	0.005
	85	150	0.154	0.046	−0.001	−69.65	−1.01	−70.66	−71.11	−0.45	0.009
	86	151	0.177	0.043	0.000	−71.17	−0.38	−71.54	−71.63	−0.09	0.005
	87	152	0.199	0.040	0.001	−70.76	−0.03	−70.79	−70.77	0.01	0.070
	88	153	0.214	0.042	0.002	−71.80	0.16	−71.64	−71.32	0.32	0.005
	89	154	0.221	0.056	0.002	−71.01	0.15	−70.85	−70.15	0.70	0.050
	90	155	0.244	0.053	0.002	−71.59	0.01	−71.58	−71.26	0.32	0.012
	91	156	0.251	0.068	0.001	−70.42	−0.19	−70.61	−70.10	0.50	0.005
	92	157	0.266	0.071	0.001	−70.56	−0.23	−70.79	−70.77	0.02	0.003
	93	158	0.266	0.071	0.001	−69.02	−0.45	−69.48	−69.48	0.00	0.003
	94	159	0.274	0.060	0.002	−68.74	−0.41	−69.14	−69.54	−0.40	0.003
	95	160	0.274	0.060	0.002	−66.85	−0.64	−67.48	−67.85	−0.36	0.003
	96	161	0.274	0.047	0.003	−66.15	−0.64	−66.78	−67.47	−0.69	0.003
	97	162	0.282	0.048	0.002	−63.92	−0.87	−64.78	−65.68	−0.90	0.040
	98	163	0.282	0.036	0.003	−62.81	−0.94	−63.76	−64.70	−0.94	0.040
	99	164	0.290	0.024	0.002	−60.25	−1.25	−61.50	−62.09	−0.59	0.100
	100	165	0.290	0.018	0.001	−58.76	−1.28	−60.04			
	101	166	0.298	0.008	−0.001	−55.88	−1.60	−57.48			
	102	167	0.299	0.001	−0.002	−54.01	−1.57	−55.58			
	103	168	0.299	−0.005	−0.004	−50.83	−1.81	−52.63			
	104	169	0.291	−0.013	−0.004	−48.59	−1.69	−50.28			
	105	170	0.285	−0.020	−0.005	−45.10	−1.80	−46.91			
	106	171	0.285	−0.026	−0.005	−42.51	−1.72	−44.24			
	107	172	0.278	−0.034	−0.006	−38.73	−1.83	−40.56			
	108	173	0.278	−0.040	−0.005	−35.80	−1.66	−37.46			
	109	174	0.279	−0.052	−0.006	−31.74	−1.73	−33.47			
	110	175	0.279	−0.052	−0.006	−28.47	−1.48	−29.95			
	111	176	0.272	−0.066	−0.006	−24.14	−1.19	−25.33			
66	73	139	0.286	−0.045	−0.006	−36.97	−0.78	−37.75			
	74	140	0.263	−0.043	−0.006	−42.24	−0.44	−42.69			
	75	141	0.233	−0.042	−0.004	−44.60	−0.36	−44.96			
	76	142	0.225	−0.043	−0.005	−49.29	−0.28	−49.57			
	77	143	0.210	−0.045	−0.004	−51.14	−0.55	−51.69			
	78	144	−0.178	−0.028	0.002	−55.27	−1.36	−56.63			
	79	145	−0.164	−0.036	0.002	−56.65	−1.57	−58.22			
	80	146	−0.157	−0.031	0.002	−60.24	−1.86	−62.09			
	81	147	−0.075	−0.010	0.000	−61.14	−3.62	−64.77	−64.33	0.44	0.110
	82	148	−0.011	0.000	0.000	−64.21	−4.61	−68.82	−68.00	0.82	0.060
	83	149	−0.046	0.007	0.001	−64.68	−3.67	−68.34			
	84	150	−0.032	0.006	0.000	−67.23	−3.27	−70.50	−69.32	1.18	0.012
	85	151	0.133	0.043	−0.001	−67.27	−1.75	−69.02	−68.76	0.26	0.005
	86	152	0.162	0.041	−0.001	−69.34	−0.75	−70.09	−70.13	−0.03	0.006
	87	153	0.184	0.037	0.000	−68.96	−0.24	−69.21	−69.15	0.05	0.005
	88	154	0.214	0.035	0.002	−70.55	0.16	−70.39	−70.40	−0.01	0.009
	89	155	0.214	0.048	0.002	−69.79	0.19	−69.60	−69.17	0.43	0.012
	90	156	0.229	0.044	0.002	−70.91	0.20	−70.71	−70.54	0.18	0.007

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
66	91	157	0.244	0.060	0.002	−69.76	0.03	−69.74	−69.43	0.30	0.007
	92	158	0.259	0.056	0.002	−70.44	0.00	−70.44	−70.42	0.03	0.004
	93	159	0.266	0.064	0.002	−68.93	−0.20	−69.12	−69.18	−0.05	0.003
	94	160	0.266	0.051	0.002	−69.17	−0.23	−69.40	−69.68	−0.28	0.003
	95	161	0.274	0.047	0.003	−67.30	−0.40	−67.70	−68.06	−0.37	0.003
	96	162	0.274	0.040	0.002	−67.12	−0.46	−67.59	−68.19	−0.60	0.003
	97	163	0.282	0.036	0.003	−64.91	−0.67	−65.58	−66.39	−0.81	0.003
	98	164	0.283	0.023	0.002	−64.33	−0.83	−65.15	−65.98	−0.82	0.003
	99	165	0.290	0.018	0.001	−61.78	−1.14	−62.93	−63.62	−0.69	0.003
	100	166	0.290	0.006	−0.001	−60.80	−1.23	−62.03	−62.59	−0.56	0.003
	101	167	0.299	0.001	−0.002	−57.94	−1.58	−59.51	−59.94	−0.43	0.060
	102	168	0.291	−0.007	−0.003	−56.57	−1.54	−58.12			
	103	169	0.300	−0.017	−0.005	−53.40	−1.90	−55.30			
	104	170	0.292	−0.019	−0.005	−51.66	−1.81	−53.47			
	105	171	0.285	−0.026	−0.005	−48.19	−2.00	−50.18			
	106	172	0.278	−0.034	−0.006	−46.09	−1.90	−48.00			
	107	173	0.278	−0.046	−0.006	−42.32	−2.16	−44.48			
	108	174	0.279	−0.052	−0.006	−39.88	−2.05	−41.93			
	109	175	0.280	−0.065	−0.006	−35.83	−2.15	−37.97			
	110	176	0.280	−0.065	−0.006	−33.04	−1.92	−34.96			
	111	177	0.273	−0.078	−0.007	−28.72	−1.69	−30.41			
	112	178	0.273	−0.078	−0.007	−25.60	−1.31	−26.91			
67	74	141	0.279	−0.052	−0.006	−33.42	−1.02	−34.44			
	75	142	0.248	−0.052	−0.005	−36.35	−0.93	−37.28			
	76	143	0.233	−0.048	−0.005	−41.14	−0.76	−41.91			
	77	144	0.225	−0.049	−0.005	−43.57	−0.78	−44.35			
	78	145	−0.192	−0.026	0.003	−47.80	−1.38	−49.17			
	79	146	−0.171	−0.035	0.002	−49.73	−1.46	−51.19			
	80	147	−0.164	−0.030	0.002	−53.42	−1.80	−55.23			
	81	148	−0.095	−0.008	0.000	−54.89	−3.25	−58.14			
	82	149	−0.018	0.000	0.000	−58.05	−4.30	−62.36			
	83	150	−0.067	0.013	0.000	−59.07	−3.19	−62.26	−62.21	0.05	0.160
	84	151	−0.060	0.013	0.000	−61.72	−2.63	−64.35	−63.72	0.63	0.060
	85	152	0.140	0.044	−0.001	−62.31	−1.44	−63.74	−63.75	−0.01	0.060
	86	153	0.162	0.041	−0.001	−64.47	−0.70	−65.17	−65.02	0.15	0.007
	87	154	0.192	0.032	0.001	−64.64	−0.22	−64.86	−64.65	0.21	0.009
	88	155	0.214	0.023	0.002	−66.32	0.11	−66.21	−66.06	0.15	0.023
	89	156	0.222	0.031	0.002	−66.08	0.19	−65.89			
	90	157	0.236	0.027	0.002	−67.31	0.16	−67.15	−66.89	0.26	0.050
	91	158	0.252	0.036	0.002	−66.68	0.06	−66.62	−66.20	0.42	0.030
	92	159	0.260	0.037	0.003	−67.46	0.01	−67.45	−67.34	0.11	0.004
	93	160	0.266	0.039	0.003	−66.46	−0.16	−66.62	−66.39	0.23	0.011
	94	161	0.275	0.034	0.003	−66.80	−0.17	−66.97	−67.21	−0.23	0.004
	95	162	0.275	0.034	0.003	−65.44	−0.38	−65.82	−66.05	−0.23	0.005
	96	163	0.275	0.021	0.002	−65.36	−0.49	−65.85	−66.39	−0.53	0.003
	97	164	0.283	0.023	0.002	−63.65	−0.75	−64.40	−64.99	−0.59	0.003
	98	165	0.283	0.011	0.000	−63.16	−0.95	−64.11	−64.91	−0.79	0.003
	99	166	0.290	0.006	−0.001	−61.11	−1.32	−62.43	−63.08	−0.65	0.003

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
67	100	167	0.291	−0.007	−0.003	−60.22	−1.42	−61.65	−62.29	−0.64	0.006
	101	168	0.299	−0.011	−0.004	−57.85	−1.82	−59.68	−60.26	−0.58	0.100
	102	169	0.292	−0.019	−0.005	−56.58	−1.85	−58.42	−58.81	−0.38	0.020
	103	170	0.292	−0.019	−0.005	−53.89	−2.14	−56.03	−56.25	−0.22	0.050
	104	171	0.285	−0.026	−0.005	−52.24	−2.08	−54.33			
	105	172	0.286	−0.032	−0.005	−49.25	−2.37	−51.62			
	106	173	0.278	−0.040	−0.005	−47.24	−2.31	−49.54			
	107	174	0.279	−0.052	−0.006	−43.94	−2.61	−46.55			
	108	175	0.279	−0.059	−0.006	−41.58	−2.51	−44.10			
	109	176	0.280	−0.065	−0.006	−38.00	−2.60	−40.60			
	110	177	0.280	−0.071	−0.007	−35.30	−2.42	−37.72			
	111	178	0.273	−0.078	−0.007	−31.44	−2.19	−33.63			
	112	179	0.273	−0.078	−0.007	−28.40	−1.80	−30.20			
	113	180	0.267	−0.092	−0.008	−24.27	−1.80	−26.07			
68	75	143	0.240	−0.059	−0.006	−29.85	−0.99	−30.84			
	76	144	0.226	−0.061	−0.006	−35.22	−0.89	−36.11			
	77	145	0.218	−0.056	−0.005	−37.70	−1.00	−38.71			
	78	146	−0.185	−0.033	0.003	−42.51	−1.48	−43.99			
	79	147	−0.171	−0.035	0.002	−44.49	−1.67	−46.16			
	80	148	−0.164	−0.030	0.002	−48.75	−2.06	−50.81			
	81	149	−0.095	−0.008	0.000	−50.26	−3.75	−54.01	−54.95	−0.94	0.900
	82	150	−0.011	0.000	0.000	−53.99	−4.75	−58.74			
	83	151	−0.060	0.013	0.000	−55.04	−3.76	−58.80			
	84	152	−0.052	0.007	0.001	−58.26	−3.29	−61.55	−60.64	0.91	0.060
	85	153	0.126	0.043	0.000	−58.88	−2.01	−60.88			
	86	154	0.154	0.033	−0.001	−61.59	−1.05	−62.64	−62.62	0.02	0.012
	87	155	0.170	0.035	0.000	−61.79	−0.57	−62.36	−62.22	0.14	0.050
	88	156	0.200	0.027	0.002	−64.02	−0.09	−64.11			
	89	157	0.214	0.029	0.002	−63.81	0.15	−63.66	−63.42	0.24	0.090
	90	158	0.222	0.024	0.002	−65.57	0.20	−65.37			
	91	159	0.236	0.033	0.003	−64.98	0.18	−64.79	−64.57	0.22	0.005
	92	160	0.252	0.030	0.003	−66.28	0.19	−66.09	−66.06	0.02	0.028
	93	161	0.260	0.037	0.003	−65.31	0.03	−65.28	−65.20	0.08	0.010
	94	162	0.267	0.026	0.003	−66.17	−0.09	−66.26	−66.35	−0.09	0.004
	95	163	0.275	0.028	0.003	−64.84	−0.21	−65.05	−65.18	−0.13	0.006
	96	164	0.275	0.015	0.002	−65.27	−0.35	−65.63	−65.95	−0.32	0.004
	97	165	0.283	0.017	0.001	−63.58	−0.60	−64.18	−64.53	−0.34	0.004
	98	166	0.284	0.004	−0.001	−63.61	−0.82	−64.43	−64.93	−0.50	0.003
	99	167	0.291	0.000	−0.002	−61.58	−1.18	−62.76	−63.30	−0.54	0.003
	100	168	0.291	−0.013	−0.004	−61.20	−1.31	−62.51	−63.00	−0.49	0.003
	101	169	0.300	−0.017	−0.005	−58.84	−1.72	−60.56	−60.93	−0.37	0.003
	102	170	0.292	−0.019	−0.005	−58.07	−1.76	−59.83	−60.12	−0.28	0.003
	103	171	0.292	−0.025	−0.005	−55.40	−2.11	−57.51	−57.73	−0.22	0.003
	104	172	0.286	−0.032	−0.005	−54.25	−2.10	−56.34	−56.49	−0.15	0.005
	105	173	0.286	−0.039	−0.005	−51.26	−2.43	−53.70			
	106	174	0.278	−0.046	−0.006	−49.74	−2.42	−52.17			
	107	175	0.279	−0.059	−0.006	−46.46	−2.79	−49.25			
	108	176	0.280	−0.065	−0.006	−44.59	−2.73	−47.31			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
68	109	177	0.280	−0.077	−0.007	−41.02	−2.87	−43.88			
	110	178	0.280	−0.077	−0.007	−38.79	−2.62	−41.41			
	111	179	0.273	−0.090	−0.008	−34.94	−2.53	−37.47			
	112	180	0.273	−0.090	−0.008	−32.38	−2.14	−34.53			
	113	181	0.267	−0.097	−0.009	−28.26	−2.16	−30.42			
	114	182	0.251	−0.094	−0.008	−25.37	−2.00	−27.37			
	115	183	0.236	−0.096	−0.009	−20.98	−2.01	−22.98			
	116	184	0.220	−0.092	−0.008	−17.78	−1.84	−19.62			
69	76	145	0.241	−0.071	−0.007	−26.03	−1.28	−27.31			
	77	146	0.226	−0.067	−0.007	−29.08	−1.25	−30.33			
	78	147	−0.192	−0.032	0.003	−33.98	−1.91	−35.89			
	79	148	−0.178	−0.040	0.003	−36.52	−2.04	−38.56			
	80	149	−0.171	−0.029	0.002	−40.87	−2.31	−43.19			
	81	150	−0.102	−0.014	0.000	−42.94	−3.68	−46.62			
	82	151	0.011	0.000	0.000	−46.76	−4.65	−51.40			
	83	152	−0.067	0.013	0.000	−48.36	−3.66	−52.02			
	84	153	−0.067	0.013	0.000	−51.67	−3.21	−54.88			
	85	154	0.133	0.037	−0.001	−52.83	−2.01	−54.84	−54.70	0.14	0.160
	86	155	0.154	0.033	−0.001	−55.64	−1.20	−56.83	−56.73	0.10	0.060
	87	156	0.170	0.035	0.000	−56.37	−0.70	−57.07	−56.98	0.09	0.070
	88	157	0.200	0.015	0.001	−58.69	−0.21	−58.90			
	89	158	0.215	0.011	0.001	−59.01	0.14	−58.87			
	90	159	0.223	0.006	0.001	−60.87	0.09	−60.78			
	91	160	0.237	0.008	0.001	−60.79	0.14	−60.65	−60.46	0.19	0.300
	92	161	0.253	0.005	0.000	−62.19	0.08	−62.11	−62.10	0.01	0.200
	93	162	0.261	0.012	0.002	−61.74	−0.01	−61.74	−61.55	0.19	0.040
	94	163	0.268	0.001	−0.001	−62.69	−0.13	−62.82	−62.74	0.08	0.006
	95	164	0.275	0.009	0.000	−61.86	−0.24	−62.11	−61.99	0.12	0.020
	96	165	0.276	−0.003	−0.002	−62.39	−0.41	−62.80	−62.94	−0.14	0.004
	97	166	0.276	−0.003	−0.002	−61.21	−0.65	−61.85	−61.89	−0.04	0.012
	98	167	0.285	−0.014	−0.004	−61.32	−0.91	−62.23	−62.55	−0.32	0.004
	99	168	0.291	−0.013	−0.004	−59.79	−1.29	−61.08	−61.32	−0.24	0.004
	100	169	0.292	−0.019	−0.005	−59.50	−1.47	−60.96	−61.28	−0.32	0.003
	101	170	0.292	−0.025	−0.005	−57.63	−1.83	−59.46	−59.80	−0.34	0.003
	102	171	0.292	−0.031	−0.005	−56.95	−1.97	−58.92	−59.22	−0.30	0.003
	103	172	0.293	−0.037	−0.006	−54.76	−2.35	−57.11	−57.38	−0.27	0.006
	104	173	0.286	−0.045	−0.006	−53.69	−2.40	−56.09	−56.26	−0.17	0.005
	105	174	0.287	−0.051	−0.007	−51.19	−2.77	−53.96	−53.87	0.09	0.040
	106	175	0.279	−0.059	−0.006	−49.76	−2.80	−52.56	−52.30	0.26	0.050
	107	176	0.280	−0.065	−0.006	−46.95	−3.17	−50.12			
	108	177	0.280	−0.077	−0.007	−45.15	−3.22	−48.37			
	109	178	0.281	−0.083	−0.007	−42.05	−3.29	−45.34			
	110	179	0.281	−0.083	−0.007	−39.91	−3.06	−42.97			
	111	180	0.273	−0.090	−0.008	−36.52	−2.97	−39.49			
	112	181	0.274	−0.096	−0.009	−34.04	−2.62	−36.66			
	113	182	0.268	−0.104	−0.009	−30.37	−2.65	−33.02			
	114	183	0.259	−0.099	−0.008	−27.56	−2.38	−29.95			
	115	184	0.243	−0.101	−0.009	−23.63	−2.45	−26.07			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
69	116	185	0.228	−0.097	−0.009	−20.50	−2.28	−22.77			
	117	186	0.213	−0.093	−0.008	−16.29	−2.27	−18.57			
70	77	147	0.219	−0.074	−0.007	−22.20	−1.43	−23.63			
	78	148	−0.185	−0.033	0.003	−27.66	−2.16	−29.83			
	79	149	−0.171	−0.040	0.002	−30.26	−2.41	−32.67			
	80	150	−0.164	−0.030	0.002	−35.17	−2.89	−38.07			
	81	151	−0.095	−0.014	0.000	−37.29	−4.28	−41.58			
	82	152	0.011	0.000	0.000	−41.67	−5.20	−46.87			
	83	153	−0.060	0.007	0.001	−43.32	−4.28	−47.59			
	84	154	−0.046	0.007	0.001	−47.17	−3.72	−50.89			
	85	155	0.119	0.036	0.000	−48.37	−2.51	−50.89			
	86	156	0.140	0.032	0.000	−51.72	−1.68	−53.41	−53.41	0.00	0.060
	87	157	0.162	0.034	−0.001	−52.49	−1.03	−53.53			
	88	158	0.178	0.024	0.001	−55.36	−0.50	−55.86	−56.02	−0.16	0.016
	89	159	0.192	0.026	0.001	−55.71	−0.11	−55.82			
	90	160	0.215	0.011	0.001	−58.10	0.12	−57.98			
	91	161	0.214	0.017	0.001	−58.05	0.24	−57.82			
	92	162	0.230	0.007	0.001	−59.98	0.22	−59.76			
	93	163	0.245	0.009	0.001	−59.55	0.17	−59.38	−59.37	0.00	0.100
	94	164	0.261	0.000	−0.001	−61.03	0.04	−60.99			
	95	165	0.268	0.007	0.000	−60.22	−0.16	−60.38	−60.17	0.20	0.020
	96	166	0.276	−0.003	−0.002	−61.27	−0.22	−61.48	−61.59	−0.10	0.008
	97	167	0.276	−0.003	−0.002	−60.10	−0.43	−60.53	−60.60	−0.07	0.005
	98	168	0.285	−0.014	−0.004	−60.72	−0.69	−61.41	−61.58	−0.16	0.004
	99	169	0.285	−0.014	−0.004	−59.22	−1.00	−60.22	−60.37	−0.15	0.004
	100	170	0.285	−0.026	−0.005	−59.43	−1.18	−60.60	−60.77	−0.17	0.003
	101	171	0.292	−0.031	−0.005	−57.58	−1.59	−59.17	−59.31	−0.15	0.003
	102	172	0.293	−0.037	−0.006	−57.39	−1.76	−59.15	−59.26	−0.11	0.003
	103	173	0.293	−0.043	−0.006	−55.22	−2.16	−57.38	−57.56	−0.17	0.003
	104	174	0.287	−0.057	−0.006	−54.65	−2.26	−56.91	−56.95	−0.04	0.003
	105	175	0.279	−0.059	−0.006	−52.16	−2.59	−54.75	−54.70	0.04	0.003
	106	176	0.280	−0.071	−0.007	−51.22	−2.74	−53.95	−53.50	0.45	0.003
	107	177	0.280	−0.077	−0.007	−48.42	−3.19	−51.61	−51.00	0.62	0.003
	108	178	0.281	−0.083	−0.007	−47.11	−3.13	−50.24	−49.71	0.54	0.010
	109	179	0.282	−0.089	−0.008	−44.02	−3.27	−47.29			
	110	180	0.273	−0.090	−0.008	−42.35	−2.99	−45.34			
	111	181	0.274	−0.096	−0.009	−38.97	−3.00	−41.97			
	112	182	0.275	−0.102	−0.009	−36.97	−2.67	−39.64			
	113	183	0.268	−0.109	−0.011	−33.31	−2.77	−36.08			
	114	184	0.260	−0.105	−0.009	−30.97	−2.51	−33.48			
	115	185	0.237	−0.108	−0.009	−27.04	−2.74	−29.78			
	116	186	0.229	−0.103	−0.009	−24.37	−2.50	−26.87			
	117	187	0.205	−0.094	−0.007	−20.17	−2.62	−22.80			
	118	188	0.166	−0.075	−0.002	−17.20	−2.43	−19.63			
	119	189	−0.199	−0.031	0.003	−12.74	−2.76	−15.50			
	120	190	−0.192	−0.032	0.003	−9.46	−3.12	−12.57			
71	78	149	−0.192	−0.038	0.003	−18.12	−2.70	−20.82			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
71	79	150	−0.177	−0.045	0.002	−21.27	−2.90	−24.18			
	80	151	−0.171	−0.035	0.002	−26.27	−3.18	−29.45			
	81	152	−0.102	−0.014	0.000	−28.94	−4.63	−33.57			
	82	153	0.024	0.000	0.000	−33.40	−5.30	−38.71			
	83	154	−0.067	0.007	0.001	−35.59	−4.50	−40.09			
	84	155	0.061	0.007	0.000	−39.54	−4.02	−43.56			
	85	156	0.119	0.030	0.000	−41.28	−2.93	−44.20			
	86	157	0.140	0.026	0.000	−44.72	−1.87	−46.59			
	87	158	0.162	0.028	−0.001	−46.02	−1.28	−47.30	−47.49	−0.19	0.170
	88	159	0.170	0.023	0.001	−48.97	−0.82	−49.79	−49.77	0.02	0.080
	89	160	0.184	0.019	0.001	−49.85	−0.28	−50.13			
	90	161	0.208	0.003	0.001	−52.33	−0.10	−52.43			
	91	162	0.215	−0.002	0.000	−52.80	0.05	−52.75			
	92	163	0.215	−0.002	0.000	−54.82	0.12	−54.70	−54.77	−0.07	0.220
	93	164	0.231	−0.005	−0.001	−54.90	0.11	−54.79			
	94	165	0.238	−0.010	−0.001	−56.46	0.01	−56.46	−56.26	0.20	0.080
	95	166	0.253	−0.002	−0.001	−56.17	−0.16	−56.33	−56.11	0.22	0.160
	96	167	0.269	−0.017	−0.004	−57.30	−0.30	−57.60	−57.47	0.13	0.100
	97	168	0.277	−0.015	−0.004	−56.64	−0.41	−57.05	−57.09	−0.04	0.060
	98	169	0.285	−0.020	−0.005	−57.35	−0.68	−58.03	−58.08	−0.05	0.005
	99	170	0.285	−0.020	−0.005	−56.33	−0.99	−57.32	−57.31	0.01	0.019
	100	171	0.286	−0.032	−0.005	−56.63	−1.20	−57.82	−57.83	−0.01	0.004
	101	172	0.293	−0.037	−0.006	−55.27	−1.57	−56.84	−56.74	0.10	0.004
	102	173	0.287	−0.051	−0.007	−55.17	−1.75	−56.92	−56.89	0.04	0.004
	103	174	0.287	−0.051	−0.007	−53.48	−2.16	−55.65	−55.58	0.07	0.004
	104	175	0.280	−0.065	−0.006	−52.99	−2.30	−55.29	−55.17	0.12	0.003
	105	176	0.280	−0.071	−0.007	−50.98	−2.70	−53.68	−53.39	0.29	0.003
	106	177	0.280	−0.077	−0.007	−50.12	−2.88	−53.00	−52.39	0.61	0.003
	107	178	0.281	−0.083	−0.007	−47.80	−3.27	−51.07	−50.34	0.73	0.024
	108	179	0.282	−0.089	−0.008	−46.57	−3.26	−49.82	−49.11	0.71	0.040
	109	180	0.274	−0.096	−0.009	−43.94	−3.36	−47.31	−46.69	0.62	0.070
	110	181	0.274	−0.096	−0.009	−42.36	−3.15	−45.51			
	111	182	0.275	−0.102	−0.009	−39.44	−3.20	−42.64			
	112	183	0.268	−0.109	−0.011	−37.51	−3.04	−40.55			
	113	184	0.261	−0.117	−0.011	−34.31	−3.21	−37.52			
	114	185	0.252	−0.112	−0.010	−32.04	−2.95	−34.99			
	115	186	0.238	−0.114	−0.010	−28.56	−3.11	−31.67			
	116	187	0.229	−0.109	−0.009	−25.97	−2.88	−28.85			
	117	188	0.205	−0.094	−0.007	−22.22	−2.99	−25.21			
	118	189	0.166	−0.081	−0.002	−19.31	−2.86	−22.18			
	119	190	−0.199	−0.036	0.003	−15.30	−3.17	−18.47			
	120	191	−0.192	−0.032	0.003	−12.09	−3.49	−15.58			
72	78	150	−0.178	−0.040	0.003	−10.80	−3.08	−13.88			
	79	151	−0.164	−0.047	0.002	−14.02	−3.31	−17.33			
	80	152	−0.157	−0.036	0.002	−19.57	−3.70	−23.27			
	81	153	−0.095	−0.020	0.000	−22.29	−5.18	−27.47			
	82	154	0.024	0.000	0.000	−27.31	−5.96	−33.27			
	83	155	0.053	0.013	0.001	−29.55	−5.03	−34.58			

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
72	84	156	0.053	0.007	0.000	−34.04	−4.60	−38.63			
	85	157	0.097	0.022	0.001	−35.82	−3.31	−39.13			
	86	158	0.126	0.024	0.000	−39.80	−2.37	−42.17			
	87	159	0.148	0.026	0.000	−41.14	−1.61	−42.75			
	88	160	0.162	0.022	0.001	−44.63	−1.10	−45.72	−46.08	−0.36	0.060
	89	161	0.170	0.017	0.001	−45.54	−0.58	−46.12			
	90	162	0.184	0.012	0.001	−48.54	−0.31	−48.86	−49.18	−0.32	0.017
	91	163	0.200	0.002	0.001	−49.05	0.02	−49.03			
	92	164	0.215	−0.002	0.000	−51.59	0.05	−51.54			
	93	165	0.215	0.004	0.001	−51.70	0.16	−51.54			
	94	166	0.223	0.000	0.000	−53.78	0.13	−53.65			
	95	167	0.237	0.008	0.001	−53.51	0.01	−53.51			
	96	168	0.245	−0.003	−0.001	−55.16	−0.16	−55.31			
	97	169	0.261	0.000	−0.001	−54.52	−0.43	−54.95	−54.81	0.14	0.080
	98	170	0.276	−0.009	−0.002	−55.73	−0.59	−56.33			
	99	171	0.285	−0.014	−0.004	−54.74	−0.85	−55.59			
	100	172	0.285	−0.020	−0.005	−55.54	−1.02	−56.56	−56.39	0.17	0.050
	101	173	0.292	−0.025	−0.005	−54.20	−1.34	−55.53			
	102	174	0.286	−0.039	−0.005	−54.60	−1.51	−56.10	−55.85	0.25	0.003
	103	175	0.286	−0.045	−0.006	−52.92	−1.87	−54.79	−54.49	0.31	0.003
	104	176	0.279	−0.059	−0.006	−52.93	−2.05	−54.97	−54.58	0.39	0.003
	105	177	0.280	−0.065	−0.006	−50.93	−2.43	−53.36	−52.89	0.47	0.003
	106	178	0.272	−0.072	−0.006	−50.55	−2.52	−53.07	−52.45	0.63	0.003
	107	179	0.273	−0.078	−0.007	−48.24	−2.91	−51.16	−50.47	0.68	0.003
	108	180	0.273	−0.090	−0.008	−47.49	−2.87	−50.36	−49.79	0.57	0.003
	109	181	0.274	−0.096	−0.009	−44.88	−2.99	−47.87	−47.42	0.46	0.003
	110	182	0.267	−0.097	−0.009	−43.77	−2.93	−46.71	−46.06	0.64	0.007
	111	183	0.268	−0.104	−0.009	−40.87	−2.99	−43.86	−43.29	0.57	0.030
	112	184	0.260	−0.111	−0.010	−39.41	−2.85	−42.26	−41.50	0.76	0.040
	113	185	0.253	−0.118	−0.011	−36.22	−3.04	−39.25			
	114	186	0.238	−0.114	−0.010	−34.42	−2.98	−37.40			
	115	187	0.221	−0.110	−0.009	−30.94	−3.08	−34.03			
	116	188	0.206	−0.100	−0.007	−28.82	−3.08	−31.90			
	117	189	0.182	−0.091	−0.004	−25.07	−3.24	−28.31			
	118	190	0.166	−0.081	−0.002	−22.62	−3.28	−25.90			
	119	191	−0.192	−0.032	0.003	−18.62	−3.65	−22.26			
	120	192	−0.185	−0.027	0.003	−15.85	−3.95	−19.80			
	121	193	−0.157	−0.025	0.001	−11.59	−4.37	−15.96			
	122	194	−0.109	−0.024	0.000	−8.52	−4.69	−13.21			
	123	195	−0.088	−0.026	0.000	−4.01	−5.12	−9.13			
73	78	151	−0.178	−0.040	0.003	−0.27	−3.82	−4.09			
	79	152	−0.164	−0.047	0.002	−4.03	−4.05	−8.08			
	80	153	−0.157	−0.036	0.002	−9.67	−4.38	−14.05			
	81	154	−0.095	−0.020	0.000	−12.93	−5.69	−18.62			
	82	155	0.032	0.000	0.000	−18.03	−6.22	−24.25			
	83	156	0.061	0.007	0.000	−20.81	−5.28	−26.09			
	84	157	0.068	0.002	0.000	−25.39	−4.76	−30.15			
	85	158	0.105	0.016	0.000	−27.70	−3.96	−31.67			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
73	86	159	0.126	0.012	0.000	−31.77	−2.88	−34.65			
	87	160	0.148	0.020	0.000	−33.63	−2.03	−35.67			
	88	161	0.155	0.015	0.001	−37.21	−1.46	−38.67			
	89	162	0.163	0.010	0.001	−38.64	−0.95	−39.60	−40.06	−0.47	0.170
	90	163	0.178	−0.001	0.001	−41.74	−0.72	−42.45	−42.60	−0.15	0.090
	91	164	0.193	−0.005	0.000	−42.76	−0.40	−43.15			
	92	165	0.201	−0.010	0.000	−45.38	−0.25	−45.63			
	93	166	0.215	−0.008	−0.001	−46.00	−0.09	−46.09			
	94	167	0.215	−0.014	−0.002	−48.17	−0.07	−48.24			
	95	168	0.223	−0.007	−0.001	−48.40	−0.06	−48.46			
	96	169	0.231	−0.012	−0.001	−50.13	−0.25	−50.38			
	97	170	0.245	−0.003	−0.001	−49.99	−0.44	−50.43			
	98	171	0.246	−0.015	−0.002	−51.29	−0.58	−51.87			
	99	172	0.262	−0.012	−0.002	−50.79	−0.88	−51.67	−51.47	0.20	0.190
	100	173	0.263	−0.031	−0.005	−51.67	−1.04	−52.72			
	101	174	0.285	−0.026	−0.005	−50.82	−1.35	−52.17			
	102	175	0.270	−0.042	−0.005	−51.30	−1.51	−52.81			
	103	176	0.271	−0.048	−0.005	−50.11	−1.86	−51.97	−51.47	0.50	0.100
	104	177	0.264	−0.061	−0.006	−50.19	−2.01	−52.20	−51.73	0.47	0.004
	105	178	0.272	−0.066	−0.006	−48.67	−2.39	−51.06	−50.53	0.53	0.100
	106	179	0.265	−0.073	−0.007	−48.38	−2.57	−50.95	−50.37	0.58	0.006
	107	180	0.266	−0.079	−0.007	−46.54	−2.95	−49.49	−48.94	0.55	0.003
	108	181	0.266	−0.086	−0.007	−45.87	−2.90	−48.77	−48.44	0.32	0.003
	109	182	0.259	−0.093	−0.008	−43.72	−3.18	−46.90	−46.44	0.46	0.003
	110	183	0.251	−0.100	−0.008	−42.69	−3.13	−45.82	−45.30	0.52	0.003
	111	184	0.252	−0.106	−0.010	−40.25	−3.23	−43.47	−42.84	0.63	0.026
	112	185	0.244	−0.107	−0.010	−38.86	−3.11	−41.97	−41.40	0.57	0.014
	113	186	0.238	−0.114	−0.010	−36.13	−3.32	−39.45	−38.62	0.83	0.060
	114	187	0.221	−0.110	−0.009	−34.40	−3.25	−37.65			
	115	188	0.222	−0.116	−0.009	−31.38	−3.27	−34.65			
	116	189	0.197	−0.095	−0.006	−29.32	−3.31	−32.63			
	117	190	0.182	−0.091	−0.004	−26.03	−3.61	−29.64			
	118	191	0.166	−0.081	−0.002	−23.64	−3.78	−27.42			
	119	192	−0.192	−0.026	0.003	−20.08	−4.11	−24.19			
	120	193	−0.185	−0.027	0.003	−17.39	−4.41	−21.79			
	121	194	−0.157	−0.025	0.001	−13.56	−4.84	−18.40			
	122	195	−0.109	−0.024	0.000	−10.56	−5.16	−15.72			
	123	196	−0.095	−0.026	0.000	−6.48	−5.63	−12.11			
	124	197	−0.067	−0.027	0.000	−3.18	−5.76	−8.94			
	125	198	−0.003	0.000	0.000	1.14	−7.08	−5.94			
74	79	153	−0.157	−0.048	0.002	4.20	−4.52	−0.32			
	80	154	−0.150	−0.043	0.002	−1.99	−4.87	−6.86			
	81	155	−0.088	−0.020	0.000	−5.31	−6.18	−11.49			
	82	156	0.032	−0.006	0.000	−10.95	−6.87	−17.82			
	83	157	0.053	0.001	0.000	−13.78	−6.15	−19.93			
	84	158	0.053	0.001	0.000	−18.90	−5.60	−24.50			
	85	159	0.090	0.009	0.001	−21.26	−4.47	−25.73			
	86	160	0.111	0.004	0.000	−25.86	−3.38	−29.24			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
74	87	161	0.141	0.013	0.000	−27.77	−2.40	−30.17			
	88	162	0.148	0.008	0.001	−31.87	−1.77	−33.65			
	89	163	0.163	0.010	0.001	−33.35	−1.18	−34.53			
	90	164	0.163	0.004	0.001	−36.96	−0.84	−37.80	−38.38	−0.58	0.060
	91	165	0.170	−0.002	0.001	−38.02	−0.52	−38.54			
	92	166	0.185	−0.006	0.000	−41.16	−0.34	−41.50	−41.90	−0.40	0.018
	93	167	0.200	−0.004	0.000	−41.81	−0.14	−41.95			
	94	168	0.201	−0.010	0.000	−44.49	−0.05	−44.54			
	95	169	0.215	−0.008	−0.001	−44.76	0.01	−44.75			
	96	170	0.215	−0.008	−0.001	−46.99	−0.05	−47.05			
	97	171	0.231	0.001	0.000	−46.88	−0.24	−47.12			
	98	172	0.238	−0.010	−0.001	−48.68	−0.40	−49.08			
	99	173	0.254	−0.008	−0.001	−48.20	−0.66	−48.86			
	100	174	0.246	−0.021	−0.003	−49.58	−0.71	−50.30			
	101	175	0.262	−0.024	−0.004	−48.75	−1.09	−49.84			
	102	176	0.255	−0.038	−0.005	−49.72	−1.17	−50.90			
	103	177	0.255	−0.038	−0.005	−48.55	−1.44	−49.99			
	104	178	0.248	−0.052	−0.005	−49.12	−1.58	−50.70	−50.44	0.26	0.100
	105	179	0.256	−0.056	−0.006	−47.62	−2.02	−49.64	−49.31	0.34	0.016
	106	180	0.249	−0.064	−0.006	−47.81	−2.18	−49.99	−49.65	0.34	0.005
	107	181	0.249	−0.070	−0.006	−45.99	−2.56	−48.54	−48.26	0.29	0.005
	108	182	0.250	−0.082	−0.008	−45.79	−2.62	−48.41	−48.25	0.16	0.003
	109	183	0.250	−0.088	−0.008	−43.66	−2.77	−46.43	−46.37	0.06	0.003
	110	184	0.236	−0.090	−0.008	−43.10	−2.80	−45.90	−45.71	0.20	0.003
	111	185	0.236	−0.096	−0.009	−40.67	−2.98	−43.64	−43.39	0.25	0.003
	112	186	0.228	−0.097	−0.009	−39.75	−2.82	−42.57	−42.51	0.06	0.003
	113	187	0.221	−0.104	−0.009	−37.03	−3.07	−40.09	−39.91	0.18	0.003
	114	188	0.213	−0.099	−0.008	−35.76	−2.98	−38.74	−38.67	0.07	0.004
	115	189	0.197	−0.095	−0.006	−32.75	−3.25	−36.01	−35.48	0.53	0.200
	116	190	0.174	−0.086	−0.004	−31.15	−3.53	−34.68	−34.31	0.37	0.160
	117	191	0.166	−0.087	−0.003	−27.87	−3.81	−31.68			
	118	192	0.158	−0.082	−0.003	−25.94	−4.14	−30.08			
	119	193	0.143	−0.071	−0.001	−22.38	−4.69	−27.07			
	120	194	−0.171	−0.023	0.002	−20.14	−4.98	−25.12			
	121	195	−0.150	−0.026	0.001	−16.32	−5.52	−21.84			
	122	196	−0.102	−0.025	0.000	−13.76	−5.98	−19.74			
	123	197	−0.081	−0.027	−0.001	−9.69	−6.41	−16.10			
	124	198	−0.060	−0.022	−0.001	−6.83	−6.64	−13.47			
	125	199	−0.003	0.000	0.000	−2.51	−7.99	−10.50			
	126	200	0.003	0.000	0.000	0.64	−8.07	−7.43			
	127	201	0.003	0.006	0.000	5.21	−7.05	−1.85			
75	80	155	−0.144	−0.044	0.002	8.88	−5.81	3.07			
	81	156	−0.095	−0.026	0.000	5.02	−7.03	−2.01			
	82	157	0.039	−0.011	0.001	−0.71	−7.26	−7.97			
	83	158	0.061	−0.011	0.000	−4.07	−6.50	−10.57			
	84	159	0.068	−0.010	0.000	−9.27	−6.13	−15.40			
	85	160	0.097	−0.009	0.000	−12.15	−5.19	−17.35			
	86	161	0.119	−0.007	0.001	−16.84	−3.92	−20.76			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
75	87	162	0.133	0.006	0.000	−19.27	−3.10	−22.37			
	88	163	0.148	0.002	0.001	−23.45	−2.36	−25.82			
	89	164	0.155	−0.004	0.001	−25.44	−1.71	−27.16			
	90	165	0.163	−0.009	0.000	−29.14	−1.26	−30.41			
	91	166	0.163	−0.009	0.000	−30.71	−0.86	−31.56	−32.13	−0.57	0.180
	92	167	0.171	−0.020	−0.001	−33.94	−0.54	−34.47	−34.91	−0.44	0.100
	93	168	0.185	−0.018	−0.001	−35.09	−0.28	−35.37			
	94	169	0.193	−0.023	−0.002	−37.86	−0.23	−38.09			
	95	170	0.201	−0.022	−0.002	−38.62	−0.11	−38.73			
	96	171	0.209	−0.021	−0.002	−40.94	−0.22	−41.16			
	97	172	0.216	−0.020	−0.002	−41.32	−0.24	−41.56			
	98	173	0.216	−0.026	−0.002	−43.20	−0.34	−43.55			
	99	174	0.224	−0.025	−0.002	−43.22	−0.48	−43.69			
	100	175	0.224	−0.031	−0.003	−44.68	−0.65	−45.33			
	101	176	0.232	−0.030	−0.004	−44.33	−0.91	−45.24			
	102	177	0.225	−0.043	−0.005	−45.38	−1.02	−46.40			
	103	178	0.233	−0.042	−0.004	−44.69	−1.35	−46.04	−45.78	0.26	0.210
	104	179	0.225	−0.055	−0.005	−45.34	−1.51	−46.85	−46.62	0.23	0.050
	105	180	0.233	−0.054	−0.006	−44.31	−1.86	−46.17	−45.84	0.34	0.030
	106	181	0.226	−0.061	−0.006	−44.58	−2.09	−46.67			
	107	182	0.234	−0.066	−0.006	−43.22	−2.56	−45.78	−45.45	0.33	0.100
	108	183	0.227	−0.073	−0.007	−43.11	−2.57	−45.67	−45.81	−0.14	0.009
	109	184	0.227	−0.085	−0.008	−41.44	−2.88	−44.31	−44.22	0.09	0.005
	110	185	0.219	−0.086	−0.007	−40.96	−2.80	−43.75	−43.83	−0.07	0.003
	111	186	0.220	−0.092	−0.008	−38.98	−2.99	−41.97	−41.93	0.04	0.003
	112	187	0.213	−0.093	−0.008	−38.14	−2.91	−41.05	−41.22	−0.17	0.003
	113	188	0.205	−0.094	−0.007	−35.87	−3.17	−39.04	−39.02	0.02	0.003
	114	189	0.189	−0.090	−0.005	−34.68	−3.24	−37.92	−37.99	−0.06	0.010
	115	190	0.182	−0.091	−0.004	−32.12	−3.62	−35.74	−35.58	0.16	0.150
	116	191	0.166	−0.087	−0.003	−30.59	−3.89	−34.48	−34.36	0.12	0.011
	117	192	0.166	−0.087	−0.003	−27.75	−4.21	−31.96			
	118	193	0.158	−0.082	−0.003	−25.89	−4.56	−30.45			
	119	194	0.143	−0.071	−0.001	−22.78	−5.02	−27.80			
	120	195	−0.164	−0.019	0.001	−20.60	−5.61	−26.21			
	121	196	−0.144	−0.021	0.001	−17.22	−6.19	−23.41			
	122	197	−0.102	−0.025	0.000	−14.73	−6.55	−21.28			
	123	198	−0.088	−0.032	0.000	−11.08	−7.04	−18.12			
	124	199	−0.067	−0.027	0.000	−8.29	−7.19	−15.48			
	125	200	−0.003	0.000	0.000	−4.40	−8.47	−12.86			
	126	201	0.003	0.000	0.000	−1.30	−8.48	−9.79			
	127	202	0.003	0.012	0.000	2.83	−7.48	−4.65			
	128	203	0.003	0.006	0.000	6.21	−6.67	−0.46			
	129	204	0.018	0.012	0.000	10.59	−5.56	5.04			
76	81	157	−0.081	−0.027	−0.001	13.60	−7.68	5.92			
	82	158	0.024	−0.006	0.000	7.34	−8.15	−0.81			
	83	159	0.047	−0.005	0.000	3.92	−7.36	−3.44			
	84	160	0.039	−0.005	0.000	−1.81	−7.26	−9.07			
	85	161	0.068	−0.004	0.001	−4.75	−6.15	−10.90			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
76	86	162	0.082	−0.004	0.001	−9.96	−4.86	−14.82			
	87	163	0.119	−0.001	0.001	−12.44	−3.65	−16.09			
	88	164	0.133	−0.006	0.001	−17.15	−2.84	−19.99			
	89	165	0.149	−0.010	0.000	−19.18	−2.03	−21.21			
	90	166	0.155	−0.016	0.000	−23.40	−1.52	−24.92			
	91	167	0.163	−0.021	−0.001	−25.00	−0.96	−25.96			
	92	168	0.163	−0.021	−0.001	−28.74	−0.69	−29.43	−30.13	−0.70	0.060
	93	169	0.171	−0.020	−0.001	−29.93	−0.37	−30.31			
	94	170	0.171	−0.026	−0.001	−33.21	−0.22	−33.42	−33.93	−0.51	0.018
	95	171	0.186	−0.024	−0.001	−34.00	−0.06	−34.06			
	96	172	0.186	−0.024	−0.001	−36.83	−0.08	−36.90			
	97	173	0.201	−0.022	−0.002	−37.23	−0.09	−37.33			
	98	174	0.209	−0.021	−0.002	−39.62	−0.27	−39.88			
	99	175	0.216	−0.020	−0.002	−39.65	−0.34	−39.99			
	100	176	0.216	−0.032	−0.003	−41.61	−0.43	−42.04			
	101	177	0.224	−0.031	−0.003	−41.29	−0.66	−41.94			
	102	178	0.216	−0.038	−0.003	−42.83	−0.73	−43.56			
	103	179	0.224	−0.037	−0.004	−42.15	−1.02	−43.17			
	104	180	0.217	−0.050	−0.005	−43.29	−1.15	−44.44			
	105	181	0.225	−0.049	−0.005	−42.28	−1.43	−43.72			
	106	182	0.225	−0.055	−0.005	−43.02	−1.73	−44.75	−44.54	0.21	0.025
	107	183	0.226	−0.061	−0.006	−41.69	−2.14	−43.83			
	108	184	0.218	−0.068	−0.006	−42.05	−2.16	−44.21	−44.26	−0.05	0.003
	109	185	0.219	−0.074	−0.007	−40.39	−2.37	−42.76	−42.81	−0.05	0.003
	110	186	0.212	−0.075	−0.007	−40.38	−2.39	−42.77	−43.00	−0.23	0.003
	111	187	0.204	−0.082	−0.006	−38.42	−2.59	−41.01	−41.22	−0.22	0.003
	112	188	0.188	−0.078	−0.004	−38.04	−2.56	−40.60	−41.14	−0.54	0.003
	113	189	0.189	−0.084	−0.005	−35.78	−2.89	−38.68	−38.99	−0.32	0.003
	114	190	0.166	−0.075	−0.002	−35.06	−2.98	−38.04	−38.71	−0.68	0.003
	115	191	0.166	−0.081	−0.002	−32.50	−3.55	−36.06	−36.40	−0.35	0.003
	116	192	0.158	−0.076	−0.002	−31.43	−3.94	−35.38	−35.89	−0.52	0.004
	117	193	0.158	−0.082	−0.003	−28.60	−4.26	−32.86	−33.40	−0.55	0.004
	118	194	0.151	−0.076	−0.002	−27.19	−4.77	−31.97	−32.44	−0.47	0.004
	119	195	0.129	−0.066	−0.002	−24.09	−5.51	−29.60	−29.70	−0.10	0.500
	120	196	−0.157	−0.020	0.001	−22.36	−6.08	−28.44	−28.30	0.14	0.040
	121	197	−0.129	−0.023	0.001	−18.98	−6.93	−25.92			
	122	198	−0.081	−0.021	0.000	−16.93	−7.34	−24.27			
	123	199	−0.074	−0.027	−0.001	−13.30	−7.86	−21.15			
	124	200	−0.052	−0.022	0.000	−10.94	−8.12	−19.06			
	125	201	−0.003	0.000	0.000	−7.05	−9.50	−16.55			
	126	202	0.003	0.000	0.000	−4.40	−9.53	−13.93			
	127	203	0.003	0.006	0.000	−0.26	−8.49	−8.76			
	128	204	0.003	0.000	0.000	2.69	−7.72	−5.04			
	129	205	0.011	−0.006	0.000	7.06	−6.53	0.54			
	130	206	0.011	0.000	0.000	10.30	−5.39	4.91			
77	83	160	0.047	−0.011	0.001	14.59	−8.33	6.26			
	84	161	0.047	−0.011	0.001	8.78	−8.22	0.56			
	85	162	0.068	−0.016	0.001	5.32	−7.08	−1.76			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
77	86	163	0.076	−0.016	0.001	0.03	−5.88	−5.85			
	87	164	0.097	−0.003	0.001	−2.97	−4.91	−7.88			
	88	165	0.112	−0.008	0.001	−7.76	−4.03	−11.78			
	89	166	0.127	−0.006	0.001	−10.30	−3.13	−13.43			
	90	167	0.133	−0.012	0.000	−14.60	−2.52	−17.12			
	91	168	0.149	−0.010	0.000	−16.71	−1.87	−18.58			
	92	169	0.149	−0.016	0.000	−20.53	−1.50	−22.03			
	93	170	0.155	−0.009	0.000	−22.22	−1.04	−23.26	−23.53	−0.27	0.190
	94	171	0.156	−0.022	−0.001	−25.58	−0.82	−26.40	−26.42	−0.02	0.110
	95	172	0.163	−0.015	0.000	−26.86	−0.54	−27.40			
	96	173	0.163	−0.021	−0.001	−29.77	−0.47	−30.24			
	97	174	0.171	−0.020	−0.001	−30.67	−0.30	−30.97			
	98	175	0.171	−0.020	−0.001	−33.13	−0.38	−33.51			
	99	176	0.185	−0.018	−0.001	−33.65	−0.44	−34.10			
	100	177	0.186	−0.024	−0.001	−35.69	−0.56	−36.24			
	101	178	0.201	−0.022	−0.002	−35.85	−0.72	−36.57			
	102	179	0.194	−0.029	−0.002	−37.47	−0.83	−38.29			
	103	180	0.209	−0.033	−0.003	−37.27	−1.08	−38.35			
	104	181	0.202	−0.040	−0.003	−38.49	−1.25	−39.73			
	105	182	0.232	−0.036	−0.004	−37.95	−1.54	−39.48			
	106	183	0.211	−0.051	−0.004	−38.77	−1.71	−40.47			
	107	184	0.225	−0.055	−0.005	−37.90	−1.94	−39.83	−39.54	0.29	0.250
	108	185	0.203	−0.058	−0.004	−38.33	−2.09	−40.42			
	109	186	0.203	−0.064	−0.005	−37.14	−2.25	−39.38	−39.17	0.21	0.020
	110	187	0.181	−0.061	−0.003	−37.20	−2.25	−39.45			
	111	188	0.181	−0.067	−0.004	−35.70	−2.49	−38.18	−38.33	−0.15	0.007
	112	189	0.165	−0.063	−0.002	−35.40	−2.60	−37.99	−38.46	−0.47	0.013
	113	190	0.165	−0.063	−0.002	−33.59	−2.95	−36.53	−36.71	−0.17	0.200
	114	191	0.157	−0.064	−0.001	−32.93	−3.36	−36.29	−36.72	−0.42	0.004
	115	192	0.151	−0.064	−0.002	−30.83	−3.90	−34.73	−34.84	−0.12	0.004
	116	193	0.143	−0.065	−0.002	−29.83	−4.45	−34.28	−34.54	−0.27	0.004
	117	194	0.143	−0.071	−0.001	−27.43	−4.81	−32.25	−32.54	−0.29	0.004
	118	195	0.136	−0.072	−0.002	−26.10	−5.41	−31.51	−31.70	−0.19	0.004
	119	196	0.113	−0.061	0.000	−23.43	−6.18	−29.61	−29.46	0.15	0.040
	120	197	−0.150	−0.020	0.001	−21.77	−6.96	−28.73	−28.29	0.44	0.021
	121	198	−0.123	−0.023	0.000	−18.83	−7.90	−26.73			
	122	199	−0.081	−0.021	0.000	−16.84	−8.30	−25.15			
	123	200	−0.075	−0.021	0.000	−13.64	−8.77	−22.41			
	124	201	−0.053	−0.016	0.000	−11.35	−8.98	−20.33			
	125	202	−0.003	0.000	0.000	−7.89	−10.38	−18.26			
	126	203	0.003	0.000	0.000	−5.29	−10.38	−15.67			
	127	204	0.003	0.006	0.000	−1.58	−9.34	−10.92			
	128	205	0.003	0.000	0.000	1.31	−8.59	−7.29			
	129	206	0.011	−0.006	0.000	5.27	−7.41	−2.14			
	130	207	0.011	0.000	0.000	8.44	−6.27	2.17			
	131	208	0.024	0.000	0.000	12.64	−4.97	7.67			
	132	209	0.032	0.000	0.000	16.09	−4.00	12.09			
	133	210	0.047	0.007	0.000	20.52	−2.73	17.79			
78	84	162	−0.032	−0.005	0.000	17.18	−9.07	8.11			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
78	85	163	−0.060	0.001	0.000	13.66	−7.64	6.02			
	86	164	−0.060	−0.004	0.000	7.85	−6.68	1.16			
	87	165	−0.081	−0.009	0.000	4.81	−5.61	−0.80			
	88	166	−0.088	−0.003	−0.001	−0.50	−4.71	−5.21			
	89	167	0.097	0.003	0.000	−3.09	−3.74	−6.83			
	90	168	0.105	−0.002	0.001	−7.90	−3.15	−11.06			
	91	169	0.111	−0.002	0.001	−10.05	−2.27	−12.33			
	92	170	0.119	−0.007	0.001	−14.38	−1.84	−16.22			
	93	171	0.133	−0.006	0.001	−16.11	−1.23	−17.35			
	94	172	0.133	−0.012	0.000	−19.97	−1.08	−21.05	−21.24	−0.19	0.060
	95	173	0.155	−0.004	0.001	−21.30	−0.70	−22.00			
	96	174	0.155	−0.009	0.000	−24.70	−0.61	−25.31	−25.32	−0.01	0.019
	97	175	0.163	−0.009	0.000	−25.63	−0.36	−25.99			
	98	176	0.163	−0.009	0.000	−28.59	−0.40	−28.98			
	99	177	0.252	0.017	0.002	−29.14	−0.60	−29.74			
	100	178	0.185	−0.012	0.000	−31.66	−0.59	−32.25			
	101	179	0.261	0.000	−0.001	−31.85	−0.80	−32.64			
	102	180	0.246	−0.009	−0.001	−33.95	−0.94	−34.89			
	103	181	0.254	−0.014	−0.002	−33.78	−1.03	−34.81			
	104	182	0.232	−0.030	−0.004	−35.47	−1.24	−36.71			
	105	183	0.247	−0.027	−0.004	−34.95	−1.31	−36.26			
	106	184	0.225	−0.043	−0.005	−36.25	−1.57	−37.82			
	107	185	0.233	−0.048	−0.005	−35.40	−1.78	−37.18			
	108	186	0.211	−0.057	−0.004	−36.31	−1.91	−38.22	−37.79	0.43	0.030
	109	187	0.211	−0.063	−0.005	−35.13	−2.04	−37.17			
	110	188	0.172	−0.050	−0.003	−35.66	−2.10	−37.76	−37.83	−0.07	0.006
	111	189	0.164	−0.051	−0.002	−34.17	−2.26	−36.43	−36.49	−0.06	0.011
	112	190	−0.157	−0.020	0.001	−34.33	−2.85	−37.18	−37.33	−0.15	0.006
	113	191	−0.157	−0.020	0.001	−32.53	−3.27	−35.80	−35.70	0.10	0.006
	114	192	−0.150	−0.020	0.001	−32.34	−3.80	−36.14	−36.30	−0.16	0.004
	115	193	−0.150	−0.026	0.001	−30.24	−4.37	−34.61	−34.49	0.13	0.004
	116	194	−0.144	−0.027	0.001	−29.70	−5.04	−34.74	−34.79	−0.05	0.004
	117	195	−0.150	−0.026	0.001	−27.32	−5.67	−32.99	−32.82	0.17	0.004
	118	196	−0.137	−0.022	0.001	−26.43	−6.28	−32.71	−32.67	0.04	0.004
	119	197	−0.137	−0.022	0.001	−23.77	−6.86	−30.63	−30.45	0.19	0.004
	120	198	−0.129	−0.023	0.001	−22.55	−7.47	−30.02	−29.93	0.09	0.005
	121	199	−0.109	−0.024	0.000	−19.62	−8.42	−28.04	−27.43	0.60	0.019
	122	200	−0.075	−0.021	0.000	−18.08	−8.78	−26.86	−26.63	0.23	0.021
	123	201	−0.067	−0.027	0.000	−14.88	−9.30	−24.17	−23.75	0.42	0.050
	124	202	−0.052	−0.022	0.000	−13.03	−9.59	−22.61			
	125	203	−0.011	0.000	0.000	−9.57	−11.06	−20.63			
	126	204	0.003	0.000	0.000	−7.41	−11.07	−18.48			
	127	205	0.003	0.006	0.000	−3.70	−10.04	−13.73			
	128	206	0.003	0.000	0.000	−1.24	−9.32	−10.56			
	129	207	0.011	0.000	0.000	2.72	−8.14	−5.42			
	130	208	0.011	0.000	0.000	5.46	−6.98	−1.51			
	131	209	0.024	0.006	0.000	9.66	−5.65	4.01			
	132	210	0.024	0.006	0.000	12.69	−4.79	7.90			
	133	211	0.039	0.007	0.000	17.12	−3.46	13.66			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
78	134	212	0.047	0.013	0.001	20.43	−2.73	17.70			
	135	213	0.068	0.020	0.000	25.09	−1.75	23.34			
	136	214	0.076	0.020	0.000	28.66	−1.26	27.41			
79	88	167	−0.081	−0.004	−0.001	9.84	−5.61	4.23			
	89	168	−0.095	−0.014	0.000	6.74	−4.59	2.15			
	90	169	−0.102	−0.008	0.000	1.86	−3.88	−2.02			
	91	170	−0.109	−0.007	0.000	−0.80	−3.05	−3.84			
	92	171	−0.109	−0.013	0.000	−5.20	−2.57	−7.77			
	93	172	−0.116	−0.012	0.000	−7.43	−1.85	−9.28			
	94	173	−0.116	−0.012	0.000	−11.37	−1.56	−12.93			
	95	174	−0.129	−0.005	0.000	−13.19	−0.94	−14.12	−14.33	−0.21	0.190
	96	175	−0.129	−0.005	0.000	−16.67	−0.79	−17.45	−17.21	0.24	0.110
	97	176	−0.137	−0.005	0.000	−18.08	−0.29	−18.38			
	98	177	−0.137	−0.005	0.000	−21.12	−0.31	−21.43			
	99	178	−0.150	0.002	−0.001	−22.15	0.02	−22.13			
	100	179	−0.150	0.002	−0.001	−24.75	−0.14	−24.90			
	101	180	−0.150	0.002	−0.001	−25.42	0.01	−25.41			
	102	181	−0.150	0.002	−0.001	−27.60	−0.25	−27.85			
	103	182	−0.157	0.003	−0.001	−27.90	−0.24	−28.14			
	104	183	−0.157	0.003	−0.001	−29.67	−0.58	−30.25			
	105	184	−0.157	0.003	−0.001	−29.62	−0.67	−30.29			
	106	185	−0.157	−0.002	0.000	−30.99	−1.04	−32.03			
	107	186	−0.157	−0.002	0.000	−30.60	−1.24	−31.84			
	108	187	−0.157	−0.008	0.000	−31.58	−1.58	−33.16			
	109	188	−0.157	−0.014	0.001	−30.86	−1.75	−32.62			
	110	189	−0.150	−0.015	0.001	−31.47	−2.24	−33.71			
	111	190	−0.150	−0.020	0.001	−30.43	−2.52	−32.95	−32.89	0.06	0.016
	112	191	−0.144	−0.021	0.001	−30.67	−3.11	−33.77	−33.87	−0.10	0.050
	113	192	−0.144	−0.021	0.001	−29.32	−3.49	−32.81	−32.79	0.02	0.016
	114	193	−0.144	−0.027	0.001	−29.19	−4.15	−33.34			
	115	194	−0.144	−0.027	0.001	−27.55	−4.69	−32.23	−32.29	−0.06	0.012
	116	195	−0.137	−0.028	0.001	−27.07	−5.33	−32.40	−32.59	−0.20	0.004
	117	196	−0.137	−0.028	0.001	−25.13	−6.00	−31.12	−31.17	−0.04	0.005
	118	197	−0.129	−0.028	0.000	−24.31	−6.66	−30.97	−31.17	−0.20	0.004
	119	198	−0.129	−0.023	0.001	−22.09	−7.30	−29.38	−29.61	−0.22	0.004
	120	199	−0.123	−0.023	0.000	−20.94	−7.97	−28.90	−29.12	−0.22	0.004
	121	200	−0.095	−0.020	0.000	−18.43	−8.95	−27.38	−27.28	0.10	0.050
	122	201	−0.075	−0.021	0.000	−16.96	−9.43	−26.39	−26.41	−0.02	0.015
	123	202	−0.074	−0.027	−0.001	−14.19	−10.01	−24.20	−24.42	−0.22	0.170
	124	203	−0.052	−0.022	0.000	−12.40	−10.33	−22.73	−23.15	−0.42	0.016
	125	204	−0.011	0.000	0.000	−9.37	−12.07	−21.44			
	126	205	0.003	0.000	0.000	−7.27	−12.04	−19.31			
	127	206	0.003	0.006	0.000	−3.98	−11.01	−14.99			
	128	207	−0.003	0.000	0.000	−1.58	−10.33	−11.92			
	129	208	−0.010	0.006	0.000	1.96	−9.20	−7.24			
	130	209	−0.011	0.000	0.000	4.64	−8.08	−3.43			
	131	210	−0.024	0.006	0.000	8.43	−6.78	1.65			
	132	211	−0.032	0.006	0.000	11.40	−5.87	5.53			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
79	133	212	−0.039	0.001	0.000	15.43	−4.61	10.81			
	134	213	−0.052	0.007	0.001	18.67	−3.87	14.80			
	135	214	−0.067	0.002	0.000	22.93	−2.85	20.08			
	136	215	−0.074	0.002	0.000	26.45	−2.31	24.14			
	137	216	0.090	0.033	0.001	30.93	−1.53	29.41			
80	89	169	−0.081	−0.021	0.000	14.88	−4.63	10.25			
	90	170	−0.088	−0.015	−0.001	9.48	−3.94	5.55			
	91	171	−0.095	−0.020	0.000	6.79	−3.00	3.79			
	92	172	−0.095	−0.020	0.000	1.88	−2.53	−0.66			
	93	173	−0.102	−0.019	−0.001	−0.39	−1.73	−2.12			
	94	174	−0.102	−0.019	−0.001	−4.83	−1.46	−6.29			
	95	175	−0.109	−0.019	−0.001	−6.68	−0.81	−7.49			
	96	176	−0.109	−0.019	−0.001	−10.66	−0.67	−11.32	−11.89	−0.57	0.060
	97	177	−0.116	−0.018	0.000	−12.11	−0.16	−12.27			
	98	178	−0.116	−0.018	0.000	−15.63	−0.18	−15.81	−16.32	−0.51	0.019
	99	179	−0.123	−0.018	0.001	−16.70	0.19	−16.51			
	100	180	−0.129	−0.017	0.001	−19.79	0.03	−19.76			
	101	181	−0.137	−0.010	0.000	−20.47	0.25	−20.22			
	102	182	−0.137	−0.010	0.000	−23.14	−0.04	−23.17			
	103	183	−0.137	−0.010	0.000	−23.46	0.10	−23.37			
	104	184	−0.137	−0.010	0.000	−25.71	−0.32	−26.03			
	105	185	−0.144	−0.010	0.000	−25.68	−0.35	−26.03			
	106	186	−0.137	−0.016	0.001	−27.53	−0.78	−28.31			
	107	187	−0.144	−0.015	0.001	−27.16	−0.91	−28.07			
	108	188	−0.137	−0.022	0.001	−28.61	−1.38	−29.99			
	109	189	−0.137	−0.028	0.001	−27.91	−1.54	−29.45			
	110	190	−0.137	−0.028	0.001	−28.98	−2.16	−31.14			
	111	191	−0.137	−0.028	0.001	−27.96	−2.46	−30.42	−30.69	−0.27	0.090
	112	192	−0.129	−0.028	0.000	−28.65	−3.11	−31.76			
	113	193	−0.129	−0.034	0.001	−27.32	−3.49	−30.81			
	114	194	−0.129	−0.034	0.001	−27.65	−4.22	−31.86	−32.26	−0.39	0.023
	115	195	−0.129	−0.034	0.001	−26.01	−4.76	−30.78	−31.07	−0.29	0.050
	116	196	−0.123	−0.035	0.001	−25.99	−5.47	−31.46	−31.85	−0.39	0.005
	117	197	−0.123	−0.035	0.001	−24.06	−6.13	−30.19	−30.57	−0.38	0.005
	118	198	−0.116	−0.030	0.000	−23.69	−6.85	−30.54	−30.98	−0.44	0.004
	119	199	−0.116	−0.030	0.000	−21.47	−7.57	−29.05	−29.57	−0.52	0.004
	120	200	−0.109	−0.030	0.000	−20.77	−8.34	−29.11	−29.53	−0.42	0.004
	121	201	−0.088	−0.026	0.000	−18.27	−9.22	−27.49	−27.69	−0.19	0.004
	122	202	−0.067	−0.022	0.000	−17.24	−9.26	−26.50	−27.37	−0.87	0.004
	123	203	−0.067	−0.027	0.000	−14.47	−9.85	−24.32	−25.29	−0.97	0.004
	124	204	−0.052	−0.022	0.000	−13.12	−10.57	−23.69	−24.72	−1.03	0.004
	125	205	−0.011	0.000	0.000	−10.09	−12.47	−22.56	−22.31	0.25	0.006
	126	206	−0.003	0.000	0.000	−8.43	−12.47	−20.90	−20.97	−0.07	0.020
	127	207	−0.003	0.006	0.000	−5.14	−11.49	−16.63	−16.27	0.36	0.150
	128	208	−0.003	0.000	0.000	−3.17	−10.77	−13.94			
	129	209	−0.011	0.000	0.000	0.37	−9.61	−9.25			
	130	210	−0.011	0.000	0.000	2.63	−8.47	−5.84			
	131	211	−0.024	0.000	0.000	6.41	−7.12	−0.71			

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
80	132	212	−0.024	0.000	0.000	8.96	−6.29	2.67			
	133	213	−0.039	0.001	0.000	12.98	−4.95	8.03			
	134	214	−0.039	0.001	0.000	15.82	−4.26	11.56			
	135	215	−0.052	0.001	0.000	20.07	−2.79	17.29			
	136	216	−0.060	−0.004	0.000	23.18	−2.23	20.95			
	137	217	−0.075	−0.004	−0.001	27.66	−1.22	26.44			
	138	218	−0.075	−0.004	−0.001	31.04	−0.85	30.19			
81	90	171	−0.039	−0.005	0.000	20.17	−5.65	14.52			
	91	172	−0.046	−0.005	0.000	16.98	−4.60	12.38			
	92	173	−0.046	−0.005	0.000	11.99	−4.08	7.91			
	93	174	−0.053	−0.005	0.000	9.23	−3.43	5.80			
	94	175	−0.053	−0.005	0.000	4.72	−3.12	1.60			
	95	176	−0.060	−0.004	0.000	2.38	−2.37	0.00			
	96	177	−0.060	−0.004	0.000	−1.67	−2.17	−3.84			
	97	178	−0.067	−0.004	−0.001	−3.61	−1.53	−5.13			
	98	179	−0.060	0.001	0.000	−7.21	−1.48	−8.69			
	99	180	−0.081	0.002	0.000	−8.75	−0.95	−9.70			
	100	181	−0.067	0.002	0.000	−11.91	−1.12	−13.03			
	101	182	−0.088	−0.003	−0.001	−13.08	−0.74	−13.82			
	102	183	−0.074	0.002	0.000	−15.81	−1.07	−16.88			
	103	184	−0.088	0.003	0.000	−16.61	−0.83	−17.44			
	104	185	−0.088	0.003	0.000	−18.93	−1.30	−20.23			
	105	186	−0.102	−0.002	−0.001	−19.37	−1.23	−20.59			
	106	187	−0.088	−0.003	−0.001	−21.28	−1.75	−23.04			
	107	188	−0.102	−0.002	−0.001	−21.38	−1.79	−23.16			
	108	189	−0.088	−0.003	−0.001	−22.90	−2.41	−25.31			
	109	190	−0.095	−0.008	0.000	−22.66	−2.52	−25.18			
	110	191	−0.075	−0.004	−0.001	−23.80	−3.28	−27.07			
	111	192	−0.088	−0.009	0.000	−23.23	−3.55	−26.77			
	112	193	0.039	−0.005	0.000	−23.99	−3.66	−27.65	−27.45	0.20	0.200
	113	194	0.053	−0.011	0.000	−23.11	−4.15	−27.26			
	114	195	0.039	−0.011	0.001	−23.51	−4.66	−28.17	−28.27	−0.10	0.140
	115	196	0.039	−0.011	0.001	−22.32	−5.08	−27.40			
	116	197	0.032	−0.012	0.001	−22.36	−5.97	−28.33	−28.40	−0.07	0.050
	117	198	0.032	−0.012	0.001	−20.87	−6.53	−27.40	−27.52	−0.13	0.080
	118	199	−0.032	0.000	0.000	−20.57	−7.77	−28.34	−28.14	0.20	0.100
	119	200	0.032	−0.017	0.001	−18.79	−7.94	−26.73	−27.07	−0.35	0.007
	120	201	−0.024	0.000	0.000	−18.15	−9.24	−27.39	−27.20	0.18	0.016
	121	202	−0.032	−0.005	0.000	−16.08	−10.19	−26.27	−26.01	0.27	0.015
	122	203	−0.024	−0.006	0.000	−15.12	−10.75	−25.86	−25.78	0.08	0.004
	123	204	−0.032	−0.011	0.000	−12.78	−11.65	−24.43	−24.37	0.06	0.004
	124	205	−0.018	−0.006	0.000	−11.49	−12.29	−23.78	−23.85	−0.07	0.004
	125	206	−0.003	0.000	0.000	−8.88	−12.91	−21.79	−22.28	−0.49	0.004
	126	207	0.003	0.000	0.000	−7.28	−12.91	−20.19	−21.05	−0.86	0.006
	127	208	0.003	0.006	0.000	−4.41	−11.82	−16.23	−16.77	−0.55	0.004
	128	209	0.003	0.000	0.000	−2.50	−11.16	−13.66	−13.65	0.01	0.010
	129	210	−0.003	0.000	0.000	0.62	−9.98	−9.36	−9.26	0.10	0.012
	130	211	−0.003	0.000	0.000	2.83	−8.84	−6.01			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
81	131	212	0.003	0.000	0.000	6.20	−7.59	−1.39			
	132	213	−0.003	0.000	0.000	8.69	−6.71	1.98			
	133	214	0.003	0.000	0.000	12.31	−5.46	6.85			
	134	215	0.003	0.000	0.000	15.08	−4.74	10.34			
	135	216	0.011	0.000	0.000	18.93	−3.55	15.38			
	136	217	0.011	0.006	0.000	21.99	−3.08	18.91			
	137	218	0.024	0.012	0.000	26.07	−2.07	24.00			
	138	219	0.024	0.006	0.000	29.39	−1.65	27.74			
	139	220	0.047	0.019	0.001	33.70	−0.80	32.90			
82	91	173	0.018	0.000	0.000	25.47	−4.41	21.06			
	92	174	0.018	0.000	0.000	19.99	−3.84	16.15			
	93	175	0.018	0.000	0.000	17.18	−3.00	14.19			
	94	176	0.018	0.000	0.000	12.18	−2.62	9.56			
	95	177	0.018	−0.006	0.000	9.80	−1.91	7.89			
	96	178	0.018	0.000	0.000	5.26	−1.73	3.53			
	97	179	0.018	−0.006	0.000	3.29	−1.15	2.13			
	98	180	0.011	0.000	0.000	−0.80	−1.11	−1.91			
	99	181	0.018	−0.006	0.000	−2.38	−0.69	−3.06			
	100	182	0.003	0.000	0.000	−6.02	−0.77	−6.79	−6.87	−0.08	0.028
	101	183	0.011	−0.006	0.000	−7.22	−0.39	−7.61			
	102	184	0.003	0.000	0.000	−10.43	−0.67	−11.10			
	103	185	0.003	0.000	0.000	−11.25	−0.47	−11.72			
	104	186	0.003	0.000	0.000	−14.05	−0.82	−14.86			
	105	187	0.003	0.000	0.000	−14.51	−0.74	−15.24			
	106	188	0.003	0.000	0.000	−16.90	−1.17	−18.07			
	107	189	0.003	0.000	0.000	−17.01	−1.18	−18.19			
	108	190	0.003	0.000	0.000	−19.00	−1.74	−20.73			
	109	191	0.003	0.000	0.000	−18.77	−1.84	−20.61			
	110	192	0.011	0.000	0.000	−20.38	−2.52	−22.89			
	111	193	0.018	0.000	0.000	−19.82	−2.75	−22.57			
	112	194	0.011	0.000	0.000	−21.05	−3.44	−24.49			
	113	195	0.018	−0.006	0.000	−20.18	−3.82	−23.99			
	114	196	0.011	0.000	0.000	−21.03	−4.55	−25.58			
	115	197	0.011	−0.006	0.000	−19.85	−5.03	−24.88			
	116	198	0.011	−0.006	0.000	−20.34	−5.82	−26.16			
	117	199	0.011	−0.006	0.000	−18.87	−6.38	−25.24	−25.27	−0.03	0.070
	118	200	0.003	0.000	0.000	−19.01	−7.21	−26.22			
	119	201	0.011	−0.006	0.000	−17.24	−7.92	−25.16	−25.30	−0.14	0.030
	120	202	0.003	0.000	0.000	−17.04	−8.73	−25.78	−25.96	−0.18	0.010
	121	203	0.003	0.000	0.000	−14.99	−9.64	−24.63	−24.81	−0.18	0.007
	122	204	−0.003	0.000	0.000	−14.45	−10.42	−24.88	−25.13	−0.25	0.004
	123	205	−0.003	−0.006	0.000	−12.12	−11.42	−23.54	−23.79	−0.25	0.004
	124	206	−0.003	0.000	0.000	−11.27	−12.06	−23.33	−23.81	−0.48	0.004
	125	207	0.003	0.000	0.000	−8.67	−12.70	−21.37	−22.48	−1.11	0.004
	126	208	0.003	0.000	0.000	−7.49	−12.73	−20.23	−21.77	−1.55	0.004
	127	209	0.003	0.006	0.000	−4.63	−11.62	−16.25	−17.64	−1.38	0.004
	128	210	0.003	0.000	0.000	−3.15	−10.98	−14.13	−14.75	−0.62	0.004
	129	211	0.003	0.000	0.000	−0.03	−9.75	−9.78	−10.49	−0.71	0.003

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
82	130	212	0.003	0.000	0.000	1.75	−8.63	−6.87	−7.57	−0.70	0.004
	131	213	0.003	0.000	0.000	5.12	−7.37	−2.25			
	132	214	0.003	0.000	0.000	7.20	−6.46	0.73	−0.19	−0.92	0.003
	133	215	0.003	0.000	0.000	10.81	−5.23	5.58			
	134	216	0.003	0.000	0.000	13.17	−4.51	8.66			
	135	217	0.003	0.000	0.000	17.02	−3.32	13.70			
	136	218	0.003	0.000	0.000	19.66	−2.77	16.89			
	137	219	0.003	0.006	0.000	23.74	−1.72	22.02			
	138	220	0.003	0.000	0.000	26.66	−1.31	25.35			
	139	221	0.003	0.006	0.000	30.97	−0.37	30.60			
	140	222	0.003	0.000	0.000	34.15	−0.12	34.03			
83	92	175	0.068	0.032	0.001	31.02	−2.79	28.23			
	93	176	0.076	0.032	0.000	27.73	−2.01	25.72			
	94	177	0.068	0.026	0.001	22.65	−1.65	21.00			
	95	178	0.076	0.026	0.001	19.78	−1.07	18.72			
	96	179	0.076	0.020	0.000	15.17	−0.90	14.27			
	97	180	0.082	0.021	0.001	12.72	−0.41	12.31			
	98	181	0.076	0.020	0.000	8.56	−0.42	8.14			
	99	182	0.082	0.021	0.001	6.51	−0.09	6.42			
	100	183	0.076	0.020	0.000	2.79	−0.23	2.56			
	101	184	0.082	0.021	0.001	1.13	0.00	1.13			
	102	185	0.076	0.020	0.000	−2.16	−0.30	−2.46			
	103	186	0.082	0.021	0.001	−3.45	−0.32	−3.77			
	104	187	0.068	0.020	0.000	−6.32	−0.52	−6.84			
	105	188	0.076	0.020	0.000	−7.24	−0.50	−7.74			
	106	189	0.068	0.020	0.000	−9.70	−0.80	−10.50			
	107	190	0.076	0.020	0.000	−10.27	−0.80	−11.07			
	108	191	0.068	0.020	0.000	−12.33	−1.21	−13.54			
	109	192	0.068	0.020	0.000	−12.56	−1.34	−13.90			
	110	193	0.061	0.013	0.001	−14.23	−1.78	−16.02			
	111	194	0.061	0.013	0.001	−14.13	−1.94	−16.07			
	112	195	0.053	0.007	0.000	−15.42	−2.61	−18.03			
	113	196	0.061	0.001	0.000	−15.00	−2.89	−17.89	−17.97	−0.08	0.700
	114	197	0.047	−0.005	0.000	−15.92	−3.77	−19.69	−19.64	0.05	0.170
	115	198	0.047	−0.011	0.001	−15.18	−4.16	−19.33	−19.54	−0.20	0.150
	116	199	0.039	−0.011	0.001	−15.74	−4.96	−20.70	−20.92	−0.22	0.100
	117	200	0.039	−0.011	0.001	−14.70	−5.51	−20.20	−20.40	−0.19	0.080
	118	201	0.032	−0.012	0.001	−14.91	−6.35	−21.26	−21.47	−0.21	0.050
	119	202	0.032	−0.017	0.001	−13.57	−6.92	−20.49	−20.80	−0.31	0.060
	120	203	0.018	−0.012	0.001	−13.44	−7.92	−21.36	−21.58	−0.22	0.040
	121	204	−0.024	0.012	0.001	−11.81	−9.22	−21.03	−20.73	0.31	0.040
	122	205	−0.018	−0.006	0.000	−11.35	−9.77	−21.12	−21.08	0.04	0.008
	123	206	−0.024	−0.012	0.000	−9.44	−10.67	−20.11	−20.05	0.06	0.009
	124	207	−0.018	−0.006	0.000	−8.65	−11.24	−19.88	−20.08	−0.19	0.004
	125	208	−0.003	0.000	0.000	−6.47	−11.76	−18.22	−18.89	−0.67	0.004
	126	209	0.003	0.000	0.000	−5.36	−11.70	−17.05	−18.28	−1.23	0.004
	127	210	0.003	0.006	0.000	−2.91	−10.68	−13.59	−14.81	−1.23	0.004
	128	211	0.003	0.006	0.000	−1.49	−10.07	−11.56	−11.87	−0.32	0.006

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
83	129	212	0.003	0.006	0.000	1.22	−8.90	−7.68	−8.14	−0.46	0.004
	130	213	0.003	0.006	0.000	2.94	−7.80	−4.86	−5.24	−0.39	0.008
	131	214	0.003	0.006	0.000	5.90	−6.59	−0.69	−1.22	−0.53	0.012
	132	215	0.003	0.006	0.000	7.92	−5.72	2.20	1.71	−0.49	0.090
	133	216	0.011	0.006	0.000	11.13	−4.54	6.58			
	134	217	0.018	0.018	0.000	13.43	−3.97	9.46			
	135	218	0.032	0.024	0.001	16.88	−2.97	13.91			
	136	219	0.039	0.031	0.000	19.47	−2.46	17.01			
	137	220	0.068	0.050	0.001	23.15	−0.22	22.93			
	138	221	0.068	0.044	0.001	26.01	−0.87	25.14			
	139	222	0.105	0.059	0.000	29.93	−0.60	29.33			
	140	223	0.105	0.059	0.000	33.06	−0.36	32.69			
	141	224	0.162	0.091	0.001	37.19	−0.69	36.50			
	142	225	0.162	0.084	0.001	40.58	−0.55	40.03			
	143	226	0.184	0.081	0.002	44.94	−0.53	44.41			
	144	227	0.184	0.075	0.000	48.59	−0.48	48.11			
84	93	177	0.097	0.046	0.000	36.58	−0.66	35.92			
	94	178	0.090	0.033	0.001	31.01	−1.11	29.90			
	95	179	0.105	0.041	0.001	28.10	−0.76	27.34			
	96	180	0.105	0.041	0.001	23.00	−0.40	22.61			
	97	181	0.251	0.068	0.001	20.51	−1.17	19.34			
	98	182	0.289	0.056	0.003	15.87	−0.73	15.14			
	99	183	0.320	0.038	0.001	13.78	−0.62	13.16			
	100	184	0.328	0.040	0.000	9.59	−0.58	9.01			
	101	185	0.336	0.029	−0.001	7.89	−0.58	7.31			
	102	186	0.345	0.019	−0.003	4.13	−0.46	3.67			
	103	187	0.338	0.011	−0.003	2.81	−0.55	2.27			
	104	188	0.306	0.009	−0.002	−0.52	−0.72	−1.24			
	105	189	0.284	−0.002	−0.002	−1.47	−0.74	−2.21			
	106	190	−0.212	0.016	−0.001	−4.40	−0.22	−4.62			
	107	191	−0.212	0.016	−0.001	−4.99	−0.39	−5.38			
	108	192	−0.212	0.010	0.000	−7.51	−0.78	−8.29			
	109	193	−0.212	0.010	0.000	−7.77	−0.97	−8.74			
	110	194	0.068	0.014	0.000	−9.90	−1.37	−11.26			
	111	195	0.068	0.014	0.000	−9.81	−1.50	−11.31			
	112	196	0.053	0.001	0.000	−11.56	−1.82	−13.37			
	113	197	0.061	0.001	0.000	−11.15	−2.45	−13.60			
	114	198	0.047	−0.005	0.000	−12.52	−3.40	−15.93			
	115	199	0.047	−0.005	0.000	−11.80	−3.81	−15.61			
	116	200	0.032	−0.006	0.000	−12.81	−4.71	−17.52			
	117	201	0.039	−0.011	0.001	−11.78	−5.14	−16.93			
	118	202	0.024	−0.006	0.000	−12.43	−6.10	−18.53			
	119	203	0.032	−0.017	0.001	−11.11	−6.57	−17.67	−17.35	0.32	0.070
	120	204	0.018	−0.006	0.000	−11.41	−7.57	−18.98			
	121	205	−0.024	0.006	0.000	−9.80	−8.62	−18.42	−17.56	0.87	0.030
	122	206	−0.018	0.000	0.000	−9.76	−9.20	−18.97	−18.20	0.76	0.010
	123	207	−0.024	−0.006	0.000	−7.87	−10.06	−17.93	−17.17	0.76	0.007
	124	208	−0.018	0.000	0.000	−7.50	−10.64	−18.14	−17.49	0.65	0.004

Z	N	A	β_2	β_4	β_6	E^{sph}_{macr} (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
84	125	209	−0.003	0.000	0.000	−5.33	−11.26	−16.59	−16.39	0.20	0.004
	126	210	0.003	0.000	0.000	−4.65	−11.18	−15.83	−15.98	−0.14	0.004
	127	211	0.003	0.006	0.000	−2.21	−10.14	−12.35	−12.46	−0.11	0.004
	128	212	0.003	0.000	0.000	−1.21	−9.52	−10.74	−10.39	0.34	0.004
	129	213	0.003	0.000	0.000	1.49	−8.34	−6.85	−6.68	0.17	0.005
	130	214	0.003	0.000	0.000	2.79	−7.25	−4.45	−4.49	−0.04	0.004
	131	215	0.003	0.000	0.000	5.75	−6.05	−0.30	−0.54	−0.24	0.003
	132	216	0.003	0.000	0.000	7.35	−5.18	2.18	1.76	−0.42	0.004
	133	217	0.003	0.000	0.000	10.55	−4.01	6.54			
	134	218	0.011	0.006	0.000	12.45	−3.38	9.07	8.35	−0.72	0.003
	135	219	0.053	0.037	0.001	15.89	−0.12	15.77			
	136	220	0.068	0.050	0.001	18.07	−0.25	17.82			
	137	221	0.105	0.071	−0.001	21.75	−0.93	20.83			
	138	222	0.105	0.071	−0.001	24.21	−0.60	23.61			
	139	223	0.148	0.095	0.001	28.12	−0.71	27.41			
	140	224	0.155	0.090	0.000	30.85	−0.57	30.28			
	141	225	0.170	0.092	0.002	34.99	−0.72	34.27			
	142	226	0.177	0.086	0.001	37.98	−0.62	37.37			
	143	227	0.191	0.089	0.002	42.34	−0.52	41.82			
	144	228	0.199	0.077	0.002	45.59	−0.50	45.09			
	145	229	0.207	0.072	0.002	50.16	−0.50	49.66			
	146	230	0.207	0.066	0.002	53.67	−0.39	53.28			
85	98	183	0.327	0.053	0.002	26.14	−0.35	25.79			
	99	184	0.336	0.042	0.000	23.58	−0.38	23.20			
	100	185	0.344	0.038	−0.001	19.32	−0.38	18.93			
	101	186	0.352	0.027	−0.003	17.16	−0.44	16.72			
	102	187	0.360	0.023	−0.004	13.32	−0.40	12.93			
	103	188	0.361	0.010	−0.004	11.54	−0.41	11.14			
	104	189	0.345	0.019	−0.003	8.14	−0.62	7.52			
	105	190	0.314	0.011	−0.002	6.73	−0.85	5.88			
	106	191	−0.225	0.018	0.000	3.73	−0.04	3.69			
	107	192	−0.232	0.020	0.001	2.68	−0.20	2.49			
	108	193	−0.225	0.018	0.000	0.09	−0.54	−0.45			
	109	194	−0.225	0.018	0.000	−0.61	−0.75	−1.37			
	110	195	−0.219	0.012	0.000	−2.81	−1.09	−3.90			
	111	196	−0.212	0.010	0.000	−3.17	−1.37	−4.54			
	112	197	−0.205	0.009	−0.001	−4.98	−1.79	−6.78			
	113	198	−0.205	0.004	0.000	−5.02	−2.12	−7.14			
	114	199	0.076	0.002	0.000	−6.46	−2.63	−9.09			
	115	200	0.076	−0.004	0.001	−6.18	−3.05	−9.23	−8.94	0.29	0.690
	116	201	0.068	−0.010	0.000	−7.25	−3.77	−11.02	−10.74	0.28	0.170
	117	202	0.068	−0.016	0.001	−6.66	−4.28	−10.94	−10.77	0.17	0.150
	118	203	0.053	−0.017	0.000	−7.37	−5.19	−12.56	−12.29	0.27	0.100
	119	204	0.053	−0.023	0.001	−6.48	−5.49	−11.96	−11.90	0.06	0.070
	120	205	0.039	−0.011	0.001	−6.85	−6.43	−13.28	−13.03	0.25	0.050
	121	206	−0.052	0.007	0.001	−5.66	−7.53	−13.18	−12.49	0.69	0.060
	122	207	−0.032	0.000	0.000	−5.69	−8.28	−13.97	−13.29	0.68	0.040
	123	208	−0.039	−0.011	−0.001	−4.22	−8.98	−13.19	−12.56	0.63	0.040

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
85	124	209	−0.024	−0.006	0.000	−3.91	−9.68	−13.59	−12.90	0.69	0.008
	125	210	−0.003	0.000	0.000	−2.16	−10.28	−12.44	−11.99	0.45	0.009
	126	211	0.003	0.000	0.000	−1.54	−10.15	−11.69	−11.67	0.01	0.005
	127	212	0.003	0.006	0.000	0.49	−9.14	−8.65	−8.64	0.01	0.005
	128	213	0.003	0.006	0.000	1.42	−8.58	−7.16	−6.60	0.55	0.013
	129	214	0.003	0.006	0.000	3.71	−7.47	−3.75	−3.40	0.35	0.006
	130	215	0.003	0.006	0.000	4.96	−6.40	−1.44	−1.27	0.17	0.007
	131	216	0.024	0.018	0.001	7.51	−5.10	2.41	2.23	−0.18	0.005
	132	217	0.032	0.024	0.001	9.05	−4.32	4.73	4.38	−0.35	0.008
	133	218	0.068	0.050	0.001	11.85	−2.64	9.21	8.09	−1.12	0.013
	134	219	0.068	0.050	0.001	13.69	−2.02	11.67	10.52	−1.15	0.080
	135	220	0.097	0.071	−0.001	16.73	−1.66	15.07			
	136	221	0.105	0.071	−0.001	18.86	−1.23	17.62			
	137	222	0.111	0.078	−0.001	22.14	−0.81	21.33			
	138	223	0.126	0.086	−0.001	24.54	−0.74	23.81			
	139	224	0.148	0.095	0.001	28.06	−0.77	27.29			
	140	225	0.155	0.090	0.000	30.74	−0.62	30.12			
	141	226	0.170	0.098	0.002	34.49	−0.69	33.79			
	142	227	0.177	0.093	0.002	37.43	−0.61	36.82			
	143	228	0.191	0.089	0.002	41.40	−0.52	40.88			
	144	229	0.191	0.082	0.001	44.60	−0.49	44.11			
	145	230	0.207	0.079	0.002	48.79	−0.53	48.26			
	146	231	0.207	0.072	0.002	52.25	−0.40	51.85			
	147	232	0.213	0.067	0.002	56.65	−0.48	56.17			
86	99	185	0.336	0.042	0.000	31.75	−0.69	31.06			
	100	186	0.344	0.044	−0.001	27.01	−0.62	26.39			
	101	187	0.345	0.032	−0.002	24.81	−0.78	24.03			
	102	188	0.352	0.027	−0.003	20.51	−0.62	19.89			
	103	189	0.352	0.021	−0.003	18.70	−0.70	17.99			
	104	190	0.345	0.025	−0.002	14.82	−0.74	14.08			
	105	191	0.321	0.019	−0.002	13.38	−0.85	12.54			
	106	192	0.314	0.011	−0.002	9.93	−0.80	9.13			
	107	193	−0.246	0.016	0.002	8.85	0.08	8.93			
	108	194	−0.239	0.015	0.001	5.80	−0.06	5.75			
	109	195	−0.246	0.016	0.002	5.08	−0.23	4.85			
	110	196	−0.232	0.014	0.000	2.42	−0.61	1.82			
	111	197	−0.232	0.014	0.000	2.04	−0.86	1.18			
	112	198	−0.219	0.012	0.000	−0.22	−1.21	−1.43			
	113	199	−0.212	0.005	0.000	−0.28	−1.57	−1.85			
	114	200	−0.205	−0.002	0.000	−2.16	−2.04	−4.21			
	115	201	−0.205	−0.002	0.000	−1.90	−2.45	−4.35			
	116	202	0.076	−0.010	0.000	−3.41	−3.10	−6.51			
	117	203	0.076	−0.016	0.001	−2.84	−3.59	−6.42			
	118	204	−0.088	0.009	0.000	−3.99	−4.65	−8.64			
	119	205	0.061	−0.023	0.001	−3.11	−4.79	−7.90			
	120	206	−0.060	0.007	0.001	−3.92	−6.05	−9.97			
	121	207	−0.060	0.007	0.001	−2.74	−6.62	−9.36	−8.67	0.69	0.070
	122	208	−0.032	0.000	0.000	−3.20	−7.37	−10.57			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
86	123	209	−0.039	−0.005	0.000	−1.74	−8.00	−9.74	−8.97	0.77	0.029
	124	210	−0.024	−0.006	0.000	−1.87	−8.70	−10.57	−9.62	0.95	0.011
	125	211	−0.003	0.000	0.000	−0.12	−9.32	−9.45	−8.78	0.67	0.008
	126	212	0.003	0.000	0.000	0.08	−9.16	−9.09	−8.68	0.41	0.005
	127	213	0.003	0.006	0.000	2.09	−8.16	−6.07	−5.72	0.35	0.008
	128	214	0.003	0.000	0.000	2.61	−7.60	−4.99	−4.34	0.65	0.010
	129	215	0.003	0.006	0.000	4.89	−6.53	−1.63	−1.19	0.44	0.008
	130	216	0.003	0.000	0.000	5.72	−5.43	0.29	0.23	−0.06	0.008
	131	217	0.018	0.012	0.000	8.26	−4.28	3.98	3.63	−0.34	0.005
	132	218	0.024	0.012	0.000	9.39	−3.44	5.95	5.20	−0.75	0.004
	133	219	0.076	0.051	0.001	12.19	−1.91	10.28	8.83	−1.45	0.003
	134	220	0.082	0.057	0.000	13.61	−1.38	12.23	10.59	−1.64	0.004
	135	221	0.105	0.071	−0.001	16.66	−1.15	15.51			
	136	222	0.111	0.078	−0.001	18.37	−0.80	17.58	16.37	−1.21	0.003
	137	223	0.148	0.101	0.001	21.66	−0.84	20.82			
	138	224	0.155	0.096	0.002	23.66	−0.66	23.00			
	139	225	0.162	0.103	0.002	27.17	−0.68	26.49			
	140	226	0.170	0.098	0.002	29.45	−0.61	28.84			
	141	227	0.177	0.099	0.003	33.20	−0.67	32.53			
	142	228	0.192	0.095	0.003	35.74	−0.67	35.07			
	143	229	0.199	0.090	0.002	39.71	−0.66	39.05			
	144	230	0.207	0.085	0.002	42.52	−0.67	41.85			
	145	231	0.213	0.080	0.003	46.71	−0.71	46.00			
	146	232	0.213	0.073	0.002	49.78	−0.57	49.21			
	147	233	0.221	0.068	0.002	54.18	−0.78	53.40			
	148	234	0.221	0.062	0.002	57.50	−0.70	56.80			
	149	235	0.221	0.056	0.002	62.12	−0.83	61.29			
87	102	189	0.351	0.033	−0.002	30.60	−0.88	29.73			
	103	190	0.352	0.027	−0.003	28.33	−0.96	27.37			
	104	191	0.351	0.033	−0.002	24.39	−0.91	23.48			
	105	192	0.336	0.029	−0.001	22.50	−0.99	21.51			
	106	193	0.344	0.038	−0.001	18.97	−0.81	18.16			
	107	194	0.344	0.038	−0.001	17.44	−0.77	16.67			
	108	195	−0.252	0.018	0.002	14.33	0.21	14.54			
	109	196	−0.252	0.018	0.002	13.15	−0.01	13.14			
	110	197	−0.246	0.016	0.002	10.44	−0.32	10.12			
	111	198	−0.246	0.016	0.002	9.61	−0.56	9.05			
	112	199	−0.239	0.009	0.002	7.28	−0.86	6.42			
	113	200	−0.232	0.008	0.001	6.78	−1.21	5.58			
	114	201	−0.219	0.000	0.001	4.83	−1.59	3.24			
	115	202	−0.212	−0.006	0.001	4.66	−2.01	2.65			
	116	203	−0.205	−0.007	0.001	3.08	−2.47	0.61			
	117	204	−0.199	−0.014	0.002	3.22	−3.04	0.18	0.65	0.47	0.690
	118	205	−0.108	0.016	0.000	2.00	−3.83	−1.82	−1.27	0.55	0.170
	119	206	−0.123	0.005	0.000	2.46	−4.56	−2.11	−1.42	0.69	0.150
	120	207	−0.102	0.015	0.000	1.59	−4.99	−3.40	−2.96	0.44	0.100
	121	208	−0.081	0.008	0.001	2.34	−5.67	−3.33	−2.71	0.62	0.070
	122	209	−0.052	0.001	0.000	1.82	−6.04	−4.22	−3.83	0.39	0.050

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
87	123	210	−0.053	−0.005	0.000	2.86	−6.48	−3.62	−3.40	0.22	0.050
	124	211	−0.032	−0.005	0.000	2.67	−7.65	−4.98	−4.20	0.78	0.040
	125	212	−0.003	0.000	0.000	4.00	−8.37	−4.37	−3.60	0.77	0.040
	126	213	0.003	0.000	0.000	4.14	−8.18	−4.04	−3.57	0.47	0.009
	127	214	0.003	0.006	0.000	5.74	−7.19	−1.45	−0.98	0.47	0.010
	128	215	0.003	0.000	0.000	6.20	−6.67	−0.47	0.29	0.77	0.008
	129	216	0.011	0.006	0.000	8.07	−5.61	2.46	2.96	0.50	0.013
	130	217	0.011	0.006	0.000	8.84	−4.57	4.27	4.29	0.02	0.015
	131	218	0.047	0.031	0.001	10.98	−3.18	7.80	7.04	−0.76	0.006
	132	219	0.068	0.050	0.001	12.05	−1.90	10.15	8.61	−1.54	0.008
	133	220	0.097	0.071	−0.001	14.44	−1.56	12.88	11.46	−1.43	0.005
	134	221	0.105	0.078	−0.002	15.81	−1.16	14.65	13.27	−1.39	0.008
	135	222	0.127	0.092	−0.001	18.46	−0.97	17.49	16.38	−1.11	0.040
	136	223	0.141	0.100	0.000	20.12	−0.76	19.35	18.38	−0.97	0.003
	137	224	0.155	0.109	0.002	23.01	−0.77	22.24	21.62	−0.62	0.050
	138	225	0.162	0.103	0.002	24.95	−0.65	24.30	23.84	−0.46	0.090
	139	226	0.162	0.103	0.002	28.08	−0.68	27.40	27.21	−0.19	0.140
	140	227	0.170	0.104	0.002	30.30	−0.64	29.66	29.59	−0.07	0.090
	141	228	0.184	0.107	0.003	33.66	−0.72	32.94			
	142	229	0.192	0.101	0.003	36.15	−0.72	35.44			
	143	230	0.207	0.098	0.003	39.74	−0.80	38.94			
	144	231	0.207	0.091	0.003	42.50	−0.76	41.74			
	145	232	0.213	0.086	0.003	46.31	−0.95	45.35			
	146	233	0.213	0.080	0.003	49.33	−0.77	48.55			
	147	234	0.221	0.075	0.002	53.35	−0.92	52.43			
	148	235	0.221	0.068	0.002	56.62	−0.81	55.81			
	149	236	0.221	0.062	0.002	60.86	−0.92	59.95			
	150	237	0.229	0.051	0.002	64.38	−0.88	63.50			
	151	238	0.236	0.039	0.002	68.83	−1.03	67.79			
88	105	193	0.314	0.024	0.000	30.03	−1.11	28.92			
	106	194	0.314	0.018	−0.001	26.05	−0.93	25.11			
	107	195	0.284	−0.008	−0.003	24.49	−0.99	23.50			
	108	196	0.329	0.021	−0.002	20.92	−0.68	20.24			
	109	197	0.359	0.036	−0.002	19.72	−0.39	19.33			
	110	198	−0.252	0.012	0.001	16.55	−0.06	16.49			
	111	199	−0.246	0.016	0.002	15.70	−0.36	15.33			
	112	200	−0.239	0.009	0.002	12.92	−0.62	12.30			
	113	201	−0.232	0.008	0.001	12.40	−0.96	11.44			
	114	202	−0.219	−0.005	0.001	10.01	−1.28	8.73			
	115	203	−0.212	−0.006	0.001	9.82	−1.69	8.13			
	116	204	−0.205	−0.013	0.002	7.80	−2.12	5.68			
	117	205	−0.199	−0.020	0.003	7.93	−2.66	5.27			
	118	206	−0.185	−0.010	0.001	6.27	−3.21	3.06			
	119	207	−0.171	−0.007	0.000	6.71	−3.70	3.01			
	120	208	−0.123	0.005	0.000	5.41	−4.36	1.04			
	121	209	−0.088	0.003	0.000	6.15	−5.14	1.00			
	122	210	−0.060	−0.004	0.000	5.19	−5.54	−0.35			
	123	211	−0.060	−0.010	0.000	6.22	−6.01	0.22	0.80	0.58	0.070

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
88	124	212	−0.039	−0.011	−0.001	5.61	−6.88	−1.28			
	125	213	−0.003	0.000	0.000	6.93	−7.66	−0.74	0.31	1.05	0.030
	126	214	0.003	0.000	0.000	6.64	−7.41	−0.77	0.08	0.85	0.011
	127	215	0.003	0.006	0.000	8.24	−6.46	1.78	2.51	0.73	0.008
	128	216	0.003	0.000	0.000	8.27	−5.95	2.32	3.27	0.94	0.009
	129	217	0.011	0.006	0.000	10.14	−4.92	5.22	5.86	0.64	0.010
	130	218	0.011	0.006	0.000	10.49	−3.90	6.59	6.63	0.04	0.012
	131	219	0.061	0.044	0.001	12.62	−2.14	10.49	9.36	−1.13	0.012
	132	220	0.082	0.057	0.000	13.29	−1.45	11.84	10.25	−1.59	0.011
	133	221	0.105	0.078	−0.002	15.67	−1.03	14.64	12.94	−1.70	0.007
	134	222	0.111	0.078	−0.001	16.64	−0.76	15.87	14.30	−1.57	0.006
	135	223	0.148	0.101	0.001	19.28	−0.73	18.55	17.23	−1.32	0.003
	136	224	0.155	0.102	0.002	20.53	−0.59	19.95	18.80	−1.14	0.004
	137	225	0.162	0.110	0.003	23.42	−0.66	22.76	21.99	−0.77	0.003
	138	226	0.162	0.110	0.003	24.96	−0.57	24.39	23.66	−0.73	0.003
	139	227	0.178	0.112	0.003	28.08	−0.79	27.30	27.17	−0.13	0.003
	140	228	0.184	0.107	0.003	29.91	−0.79	29.12	28.94	−0.18	0.004
	141	229	0.192	0.108	0.004	33.27	−0.93	32.34	32.66	0.32	0.110
	142	230	0.199	0.103	0.003	35.37	−0.99	34.38			
	143	231	0.207	0.098	0.003	38.95	−1.12	37.84			
	144	232	0.213	0.092	0.002	41.32	−1.13	40.19			
	145	233	0.213	0.086	0.003	45.13	−1.22	43.91			
	146	234	0.221	0.081	0.002	47.76	−1.09	46.67			
	147	235	0.229	0.076	0.002	51.78	−1.24	50.55			
	148	236	0.229	0.070	0.002	54.67	−1.10	53.57			
	149	237	0.229	0.063	0.002	58.91	−1.23	57.68			
	150	238	0.229	0.051	0.002	62.05	−1.09	60.96			
	151	239	0.236	0.039	0.002	66.50	−1.26	65.24			
	152	240	0.236	0.033	0.003	69.88	−1.05	68.82			
89	107	196	0.306	0.016	−0.001	33.97	−1.02	32.95			
	108	197	0.344	0.038	−0.001	30.34	−0.72	29.62			
	109	198	0.359	0.036	−0.002	28.69	−0.34	28.36			
	110	199	0.374	0.040	−0.003	25.46	−0.12	25.34			
	111	200	−0.252	0.018	0.002	24.17	−0.15	24.02			
	112	201	−0.252	0.012	0.001	21.33	−0.32	21.00			
	113	202	−0.246	0.005	0.001	20.37	−0.62	19.76			
	114	203	−0.232	−0.009	0.002	17.91	−0.94	16.98			
	115	204	−0.219	−0.016	0.002	17.29	−1.31	15.99			
	116	205	−0.212	−0.023	0.002	15.21	−1.66	13.54			
	117	206	−0.205	−0.030	0.003	14.91	−2.16	12.75			
	118	207	−0.199	−0.025	0.003	13.19	−2.59	10.60			
	119	208	−0.199	−0.025	0.003	13.20	−2.86	10.34			
	120	209	−0.150	−0.003	0.000	11.84	−3.48	8.35	8.89	0.54	0.170
	121	210	−0.102	0.004	0.000	12.15	−4.34	7.81	8.62	0.81	0.160
	122	211	−0.067	−0.004	−0.001	11.14	−4.63	6.51	7.08	0.57	0.110
	123	212	−0.067	−0.010	0.000	11.75	−5.05	6.70	7.24	0.54	0.080
	124	213	−0.046	−0.011	0.000	11.07	−5.81	5.27	6.10	0.83	0.070
	125	214	−0.003	0.000	0.000	11.98	−6.77	5.21	6.38	1.17	0.070

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
89	126	215	0.003	0.000	0.000	11.63	−6.49	5.15	5.97	0.82	0.060
	127	216	0.003	0.006	0.000	12.82	−5.55	7.27	8.06	0.79	0.040
	128	217	0.003	0.000	0.000	12.80	−5.07	7.72	8.69	0.96	0.013
	129	218	0.011	0.006	0.000	14.25	−4.08	10.18	10.82	0.64	0.050
	130	219	0.018	0.006	0.000	14.55	−3.03	11.52	11.54	0.02	0.050
	131	220	0.090	0.064	0.000	16.28	−1.43	14.85	13.73	−1.12	0.050
	132	221	0.105	0.071	−0.001	16.88	−0.94	15.94	14.50	−1.44	0.050
	133	222	0.119	0.092	−0.002	18.87	−0.76	18.10	16.60	−1.50	0.006
	134	223	0.141	0.100	0.000	19.77	−0.65	19.13	17.82	−1.31	0.008
	135	224	0.155	0.109	0.002	22.02	−0.63	21.39	20.20	−1.19	0.005
	136	225	0.162	0.110	0.003	23.22	−0.58	22.64	21.63	−1.01	0.008
	137	226	0.163	0.116	0.003	25.71	−0.70	25.01	24.30	−0.70	0.004
	138	227	0.170	0.111	0.002	27.20	−0.71	26.49	25.85	−0.64	0.003
	139	228	0.178	0.112	0.003	29.93	−0.93	29.01	28.89	−0.12	0.004
	140	229	0.184	0.113	0.003	31.71	−0.95	30.75	30.90	0.15	0.110
	141	230	0.199	0.109	0.003	34.68	−1.17	33.51			
	142	231	0.207	0.104	0.004	36.72	−1.31	35.41	35.91	0.50	0.100
	143	232	0.213	0.099	0.003	39.93	−1.39	38.54			
	144	233	0.213	0.092	0.002	42.24	−1.37	40.87			
	145	234	0.213	0.092	0.002	45.67	−1.45	44.22			
	146	235	0.221	0.087	0.003	48.25	−1.34	46.92			
	147	236	0.229	0.076	0.002	51.90	−1.43	50.47			
	148	237	0.229	0.070	0.002	54.74	−1.27	53.47			
	149	238	0.229	0.070	0.002	58.61	−1.38	57.23			
	150	239	0.229	0.057	0.002	61.70	−1.22	60.48			
	151	240	0.236	0.045	0.003	65.78	−1.37	64.41			
	152	241	0.236	0.039	0.002	69.11	−1.14	67.97			
	153	242	0.236	0.033	0.003	73.40	−1.05	72.35			
90	110	200	0.352	0.027	−0.003	32.44	−0.51	31.94			
	111	201	0.374	0.040	−0.003	31.12	−0.08	31.04			
	112	202	0.162	0.028	−0.001	27.84	−0.10	27.74			
	113	203	0.162	0.016	0.001	26.86	−0.34	26.52			
	114	204	−0.225	−0.010	0.002	23.96	−0.86	23.10			
	115	205	−0.219	−0.016	0.002	23.32	−1.15	22.17			
	116	206	−0.205	−0.019	0.003	20.80	−1.51	19.29			
	117	207	−0.205	−0.030	0.003	20.48	−1.91	18.57			
	118	208	−0.192	−0.021	0.003	18.32	−2.38	15.94			
	119	209	−0.177	−0.011	0.001	18.32	−2.76	15.56			
	120	210	−0.157	−0.002	0.000	16.53	−3.05	13.48			
	121	211	−0.109	−0.002	−0.001	16.83	−4.01	12.82			
	122	212	−0.075	−0.004	−0.001	15.39	−4.26	11.12			
	123	213	−0.067	−0.010	0.000	15.99	−4.66	11.33			
	124	214	−0.046	−0.011	0.000	14.89	−5.44	9.44			
	125	215	−0.003	0.000	0.000	15.78	−6.28	9.49	10.89	1.40	0.070
	126	216	0.003	0.000	0.000	15.01	−5.97	9.04			
	127	217	0.003	0.006	0.000	16.19	−5.04	11.15	12.16	1.01	0.030
	128	218	0.003	0.000	0.000	15.75	−4.60	11.15	12.35	1.19	0.014
	129	219	0.011	0.006	0.000	17.20	−3.64	13.56	14.45	0.88	0.050

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
90	130	220	0.018	0.006	0.000	17.08	−2.62	14.47	14.65	0.18	0.022
	131	221	0.097	0.065	−0.001	18.80	−1.07	17.73	16.92	−0.82	0.011
	132	222	0.105	0.071	−0.001	19.00	−0.76	18.24	17.18	−1.05	0.013
	133	223	0.141	0.100	0.000	20.98	−0.65	20.33	19.36	−0.97	0.028
	134	224	0.155	0.102	0.002	21.48	−0.47	21.01	19.98	−1.03	0.013
	135	225	0.163	0.116	0.003	23.72	−0.55	23.16	22.28	−0.88	0.009
	136	226	0.163	0.116	0.003	24.51	−0.53	23.99	23.18	−0.81	0.006
	137	227	0.170	0.117	0.003	27.00	−0.74	26.26	25.80	−0.45	0.003
	138	228	0.184	0.113	0.003	28.09	−0.88	27.21	26.75	−0.47	0.004
	139	229	0.192	0.114	0.004	30.82	−1.17	29.66	29.58	−0.08	0.003
	140	230	0.199	0.109	0.003	32.20	−1.23	30.97	30.86	−0.11	0.002
	141	231	0.199	0.116	0.004	35.17	−1.36	33.81	33.81	0.01	0.002
	142	232	0.207	0.104	0.004	36.82	−1.53	35.29	35.44	0.15	0.002
	143	233	0.213	0.105	0.003	40.02	−1.63	38.39	38.73	0.34	0.002
	144	234	0.213	0.099	0.003	41.95	−1.59	40.36	40.61	0.25	0.004
	145	235	0.221	0.094	0.003	45.38	−1.76	43.62	44.25	0.63	0.050
	146	236	0.221	0.087	0.003	47.57	−1.60	45.97			
	147	237	0.229	0.082	0.002	51.22	−1.74	49.48			
	148	238	0.229	0.070	0.002	53.68	−1.55	52.12			
	149	239	0.229	0.070	0.002	57.54	−1.66	55.88			
	150	240	0.229	0.057	0.002	60.25	−1.50	58.76			
	151	241	0.236	0.045	0.003	64.33	−1.65	62.68			
	152	242	0.236	0.039	0.002	67.29	−1.41	65.88			
	153	243	0.236	0.033	0.003	71.58	−1.33	70.25			
	154	244	0.230	0.032	0.002	74.78	−1.02	73.76			
	155	245	0.222	0.018	0.002	79.28	−0.81	78.47			
	156	246	0.222	0.012	0.001	82.71	−0.63	82.08			
91	111	202	0.368	0.025	−0.003	40.48	−0.28	40.20			
	112	203	0.177	0.036	0.000	37.13	−0.02	37.11			
	113	204	0.170	0.023	0.001	35.72	−0.18	35.54			
	114	205	0.162	0.016	0.001	32.76	−0.31	32.45			
	115	206	0.163	0.010	0.001	31.68	−0.61	31.08			
	116	207	−0.219	−0.028	0.003	29.10	−1.12	27.98			
	117	208	−0.205	−0.030	0.003	28.35	−1.60	26.75			
	118	209	−0.205	−0.030	0.003	26.14	−1.88	24.26			
	119	210	−0.199	−0.025	0.003	25.71	−2.17	23.55			
	120	211	−0.157	−0.002	0.000	23.86	−2.52	21.33			
	121	212	−0.123	0.000	−0.001	23.74	−3.36	20.38			
	122	213	−0.088	−0.009	0.000	22.24	−3.57	18.67			
	123	214	−0.081	−0.015	−0.001	22.42	−3.89	18.53			
	124	215	−0.060	−0.016	0.000	21.26	−4.05	17.21	17.68	0.47	0.120
	125	216	−0.003	0.000	0.000	21.74	−5.52	16.22	17.68	1.46	0.100
	126	217	0.003	0.000	0.000	20.92	−5.16	15.76	17.02	1.26	0.090
	127	218	0.003	0.006	0.000	21.68	−4.26	17.42	18.60	1.17	0.090
	128	219	0.003	0.000	0.000	21.19	−3.84	17.35			
	129	220	0.024	0.012	0.000	22.23	−2.85	19.38			
	130	221	0.061	0.038	0.001	22.06	−0.26	21.80			
	131	222	0.105	0.078	−0.002	23.37	−0.78	22.59	21.94	−0.65	0.070

Z	N	A	β_2	β_4	β_6	E^{sph}_{macr} (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
91	132	223	0.141	0.094	0.000	23.51	−0.57	22.94	22.31	−0.63	0.070
	133	224	0.155	0.109	0.002	25.09	−0.45	24.64	23.78	−0.86	0.070
	134	225	0.162	0.110	0.003	25.54	−0.44	25.10	24.31	−0.79	0.060
	135	226	0.163	0.116	0.003	27.38	−0.58	26.81	26.01	−0.79	0.012
	136	227	0.170	0.117	0.003	28.13	−0.65	27.48	26.82	−0.65	0.010
	137	228	0.178	0.125	0.003	30.22	−1.00	29.22	28.86	−0.36	0.006
	138	229	0.184	0.119	0.003	31.26	−1.02	30.24	29.89	−0.35	0.009
	139	230	0.192	0.121	0.003	33.60	−1.31	32.29	32.17	−0.12	0.004
	140	231	0.199	0.116	0.004	34.92	−1.39	33.54	33.42	−0.12	0.003
	141	232	0.207	0.117	0.004	37.51	−1.64	35.87	35.92	0.06	0.009
	142	233	0.207	0.110	0.003	39.11	−1.70	37.41	37.49	0.08	0.002
	143	234	0.213	0.105	0.003	41.93	−1.81	40.12	40.33	0.21	0.005
	144	235	0.213	0.105	0.003	43.81	−1.76	42.05	42.33	0.28	0.050
	145	236	0.221	0.100	0.004	46.86	−1.98	44.88	45.34	0.46	0.200
	146	237	0.221	0.094	0.003	49.00	−1.79	47.21	47.64	0.43	0.100
	147	238	0.229	0.082	0.002	52.28	−1.99	50.29	50.91	0.62	0.300
	148	239	0.229	0.076	0.002	54.68	−1.82	52.86			
	149	240	0.229	0.070	0.002	58.18	−1.90	56.27			
	150	241	0.229	0.063	0.002	60.84	−1.73	59.11			
	151	242	0.236	0.052	0.002	64.55	−1.89	62.66			
	152	243	0.236	0.045	0.003	67.46	−1.63	65.83			
	153	244	0.236	0.039	0.002	71.39	−1.51	69.88			
	154	245	0.236	0.033	0.003	74.54	−1.21	73.33			
	155	246	0.222	0.018	0.002	78.67	−0.92	77.75			
	156	247	0.222	0.018	0.002	82.07	−0.73	81.34			
	157	248	0.215	0.011	0.001	86.40	−0.60	85.81			
92	112	204	0.200	0.027	0.002	44.49	−0.22	44.27			
	113	205	0.178	0.018	0.001	43.06	−0.25	42.81			
	114	206	0.170	0.017	0.001	39.66	−0.29	39.37			
	115	207	0.163	0.004	0.001	38.56	−0.58	37.98			
	116	208	0.155	−0.004	0.001	35.55	−0.79	34.76			
	117	209	0.156	−0.022	−0.001	34.78	−1.05	33.73			
	118	210	−0.199	−0.025	0.003	32.13	−1.87	30.27			
	119	211	−0.185	−0.016	0.001	31.69	−2.13	29.55			
	120	212	−0.157	−0.008	0.000	29.41	−2.37	27.04			
	121	213	−0.129	−0.005	0.000	29.27	−3.16	26.11			
	122	214	−0.095	−0.008	0.000	27.34	−3.36	23.99			
	123	215	−0.081	−0.015	−0.001	27.51	−3.68	23.83			
	124	216	−0.060	−0.016	0.000	25.93	−3.84	22.10			
	125	217	−0.003	0.000	0.000	26.40	−5.22	21.18			
	126	218	0.003	0.000	0.000	25.16	−4.84	20.32			
	127	219	0.003	0.006	0.000	25.91	−3.94	21.97			
	128	220	0.003	0.000	0.000	25.00	−3.55	21.46			
	129	221	0.024	0.012	0.000	26.04	−2.62	23.42			
	130	222	0.076	0.045	0.001	25.45	−0.31	25.14			
	131	223	0.111	0.078	−0.001	26.76	−0.63	26.13			
	132	224	0.155	0.102	0.002	26.49	−0.39	26.10			
	133	225	0.162	0.110	0.003	28.07	−0.34	27.73			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
92	134	226	0.170	0.111	0.002	28.11	−0.43	27.68	27.17	−0.51	0.030
	135	227	0.178	0.118	0.004	29.94	−0.63	29.32			
	136	228	0.184	0.119	0.003	30.29	−0.78	29.51	29.21	−0.30	0.016
	137	229	0.192	0.121	0.003	32.38	−1.07	31.31	31.18	−0.13	0.009
	138	230	0.192	0.121	0.003	33.02	−1.14	31.88	31.60	−0.28	0.006
	139	231	0.199	0.122	0.003	35.36	−1.53	33.83	33.78	−0.05	0.050
	140	232	0.207	0.117	0.004	36.29	−1.66	34.63	34.59	−0.04	0.004
	141	233	0.207	0.117	0.004	38.87	−1.88	36.98	36.92	−0.07	0.003
	142	234	0.213	0.112	0.004	40.08	−1.98	38.09	38.14	0.05	0.002
	143	235	0.213	0.105	0.003	42.89	−2.10	40.79	40.92	0.12	0.002
	144	236	0.213	0.105	0.003	44.38	−2.04	42.34	42.44	0.10	0.002
	145	237	0.221	0.094	0.003	47.43	−2.23	45.21	45.39	0.18	0.002
	146	238	0.221	0.087	0.003	49.19	−2.03	47.16	47.31	0.14	0.002
	147	239	0.229	0.082	0.002	52.47	−2.21	50.25	50.57	0.32	0.002
	148	240	0.229	0.076	0.002	54.49	−2.03	52.45	52.71	0.26	0.005
	149	241	0.229	0.070	0.002	57.98	−2.13	55.85			
	150	242	0.229	0.063	0.002	60.27	−1.98	58.29			
	151	243	0.236	0.045	0.003	63.98	−2.14	61.84			
	152	244	0.236	0.039	0.002	66.51	−1.88	64.63			
	153	245	0.236	0.039	0.002	70.44	−1.79	68.65			
	154	246	0.230	0.032	0.002	73.22	−1.45	71.78			
	155	247	0.222	0.018	0.002	77.36	−1.24	76.11			
	156	248	0.222	0.018	0.002	80.38	−1.04	79.34			
	157	249	0.223	0.006	0.001	84.71	−1.02	83.70			
	158	250	0.215	−0.002	0.000	87.98	−0.85	87.13			
93	116	209	0.163	0.004	0.001	44.73	−0.55	44.18			
	117	210	0.163	−0.015	0.000	43.53	−0.76	42.78			
	118	211	0.156	−0.022	−0.001	40.83	−1.02	39.81			
	119	212	−0.171	−0.007	0.000	39.96	−1.86	38.10			
	120	213	−0.157	−0.008	0.000	37.62	−1.94	35.68			
	121	214	−0.144	−0.010	0.000	37.07	−2.59	34.49			
	122	215	−0.102	−0.008	0.000	35.08	−2.74	32.34			
	123	216	−0.088	−0.015	−0.001	34.84	−3.03	31.81			
	124	217	−0.075	−0.021	0.000	33.20	−3.05	30.16			
	125	218	−0.011	0.000	0.000	33.26	−4.53	28.73			
	126	219	0.003	0.000	0.000	31.96	−4.01	27.94			
	127	220	0.011	0.012	0.000	32.31	−3.27	29.04			
	128	221	0.011	0.006	0.000	31.34	−2.86	28.48			
	129	222	0.082	0.051	0.000	31.97	−0.60	31.37			
	130	223	0.105	0.065	0.000	31.33	−0.63	30.70			
	131	224	0.140	0.088	0.000	32.24	−0.51	31.73			
	132	225	0.170	0.104	0.002	31.91	−0.42	31.49			
	133	226	0.178	0.112	0.003	33.09	−0.48	32.61			
	134	227	0.184	0.113	0.003	33.08	−0.65	32.42			
	135	228	0.192	0.121	0.003	34.52	−0.84	33.68			
	136	229	0.192	0.121	0.003	34.81	−1.06	33.75	33.74	−0.01	0.080
	137	230	0.199	0.122	0.003	36.51	−1.39	35.12	35.22	0.10	0.050
	138	231	0.207	0.117	0.004	37.10	−1.50	35.59	35.62	0.03	0.050

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
93	139	232	0.207	0.123	0.004	39.04	−1.89	37.15			
	140	233	0.213	0.118	0.003	39.92	−1.98	37.94			
	141	234	0.213	0.118	0.003	42.12	−2.21	39.91	39.95	0.04	0.009
	142	235	0.213	0.112	0.004	43.28	−2.29	40.99	41.04	0.05	0.002
	143	236	0.213	0.112	0.004	45.72	−2.39	43.32	43.37	0.05	0.050
	144	237	0.213	0.105	0.003	47.15	−2.36	44.79	44.87	0.07	0.002
	145	238	0.221	0.100	0.004	49.83	−2.56	47.27	47.45	0.19	0.002
	146	239	0.221	0.094	0.003	51.54	−2.36	49.18	49.31	0.13	0.002
	147	240	0.229	0.089	0.002	54.44	−2.54	51.90	52.32	0.42	0.014
	148	241	0.229	0.082	0.002	56.41	−2.36	54.06	54.26	0.20	0.070
	149	242	0.229	0.070	0.002	59.54	−2.46	57.07	57.41	0.34	0.200
	150	243	0.229	0.063	0.002	61.77	−2.29	59.49	59.92	0.44	0.011
	151	244	0.236	0.052	0.002	65.12	−2.44	62.68			
	152	245	0.236	0.045	0.003	67.61	−2.19	65.41			
	153	246	0.236	0.039	0.002	71.17	−2.07	69.10			
	154	247	0.236	0.039	0.002	73.90	−1.76	72.15			
	155	248	0.230	0.025	0.002	77.68	−1.56	76.12			
	156	249	0.222	0.018	0.002	80.66	−1.24	79.42			
	157	250	0.222	0.012	0.001	84.63	−1.16	83.47			
	158	251	0.223	0.006	0.001	87.85	−1.00	86.86			
	159	252	0.215	−0.008	−0.001	92.03	−1.01	91.02			
	160	253	0.215	−0.014	−0.002	95.48	−0.97	94.51			
94	119	213	−0.178	−0.017	0.001	46.78	−1.89	44.89			
	120	214	−0.164	−0.013	0.001	44.01	−2.00	42.01			
	121	215	−0.144	−0.010	0.000	43.44	−2.59	40.85			
	122	216	−0.102	−0.008	0.000	41.04	−2.76	38.28			
	123	217	−0.088	−0.015	−0.001	40.78	−3.04	37.74			
	124	218	−0.067	−0.016	0.000	38.72	−3.06	35.66			
	125	219	−0.003	0.000	0.000	38.76	−4.47	34.29			
	126	220	0.003	0.000	0.000	37.05	−4.02	33.03			
	127	221	0.003	0.006	0.000	37.38	−3.16	34.22			
	128	222	0.003	0.000	0.000	36.01	−2.82	33.18			
	129	223	0.068	0.038	0.001	36.63	−0.46	36.16			
	130	224	0.105	0.059	0.000	35.58	−0.13	35.44			
	131	225	0.140	0.082	0.000	36.47	−0.41	36.06			
	132	226	0.170	0.098	0.002	35.74	−0.33	35.42			
	133	227	0.178	0.105	0.003	36.91	−0.37	36.54			
	134	228	0.192	0.108	0.004	36.50	−0.57	35.93			
	135	229	0.192	0.114	0.004	37.93	−0.71	37.22			
	136	230	0.199	0.116	0.004	37.83	−0.99	36.83			
	137	231	0.199	0.116	0.004	39.52	−1.26	38.26			
	138	232	0.207	0.110	0.003	39.71	−1.43	38.27	38.35	0.08	0.019
	139	233	0.207	0.110	0.003	41.65	−1.83	39.83	40.02	0.19	0.050
	140	234	0.213	0.112	0.004	42.14	−1.94	40.19	40.33	0.14	0.008
	141	235	0.213	0.112	0.004	44.33	−2.15	42.18	42.16	−0.02	0.050
	142	236	0.213	0.105	0.003	45.10	−2.26	42.85	42.88	0.03	0.004
	143	237	0.221	0.100	0.004	47.53	−2.49	45.05	45.09	0.04	0.006
	144	238	0.221	0.094	0.003	48.59	−2.47	46.12	46.16	0.04	0.002

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
94	145	239	0.221	0.094	0.003	51.26	−2.61	48.65	48.58	−0.06	0.002
	146	240	0.229	0.082	0.002	52.58	−2.51	50.08	50.12	0.05	0.002
	147	241	0.229	0.082	0.002	55.48	−2.63	52.85	52.95	0.10	0.002
	148	242	0.229	0.070	0.002	57.08	−2.47	54.61	54.71	0.10	0.002
	149	243	0.229	0.070	0.002	60.20	−2.60	57.60	57.75	0.15	0.003
	150	244	0.229	0.057	0.002	62.06	−2.47	59.58	59.80	0.22	0.005
	151	245	0.236	0.045	0.003	65.40	−2.67	62.73	63.17	0.45	0.014
	152	246	0.236	0.039	0.002	67.52	−2.43	65.08	65.39	0.31	0.015
	153	247	0.236	0.033	0.003	71.08	−2.34	68.74			
	154	248	0.230	0.032	0.002	73.44	−2.00	71.45			
	155	249	0.230	0.019	0.002	77.22	−1.89	75.33			
	156	250	0.222	0.018	0.002	79.83	−1.59	78.24			
	157	251	0.223	0.006	0.001	83.81	−1.54	82.26			
	158	252	0.223	0.000	0.000	86.66	−1.40	85.26			
	159	253	0.223	−0.013	−0.002	90.84	−1.52	89.32			
	160	254	0.216	−0.020	−0.002	93.93	−1.42	92.51			
	161	255	0.216	−0.032	−0.003	98.31	−1.54	96.77			
	162	256	0.216	−0.038	−0.003	101.63	−1.54	100.09			
95	127	222	0.011	0.012	0.000	44.65	−2.65	42.01			
	128	223	0.003	0.000	0.000	43.22	−2.25	40.97			
	129	224	0.105	0.059	0.000	43.44	−0.34	43.10			
	130	225	0.162	0.084	0.001	42.33	−0.50	41.83			
	131	226	0.170	0.092	0.002	42.83	−0.44	42.39			
	132	227	0.192	0.095	0.003	42.05	−0.58	41.47			
	133	228	0.192	0.101	0.003	42.82	−0.66	42.16			
	134	229	0.199	0.103	0.003	42.35	−0.86	41.50			
	135	230	0.199	0.109	0.003	43.40	−1.03	42.37			
	136	231	0.207	0.110	0.003	43.23	−1.25	41.99			
	137	232	0.207	0.110	0.003	44.54	−1.51	43.03			
	138	233	0.213	0.105	0.003	44.68	−1.77	42.90			
	139	234	0.213	0.105	0.003	46.24	−2.09	44.15			
	140	235	0.213	0.105	0.003	46.67	−2.21	44.46			
	141	236	0.213	0.105	0.003	48.48	−2.40	46.08			
	142	237	0.221	0.100	0.004	49.20	−2.60	46.60			
	143	238	0.221	0.100	0.004	51.26	−2.77	48.49	48.42	−0.07	0.050
	144	239	0.221	0.094	0.003	52.26	−2.75	49.51	49.38	−0.12	0.003
	145	240	0.229	0.089	0.002	54.55	−3.00	51.55	51.50	−0.05	0.013
	146	241	0.229	0.082	0.002	55.83	−2.84	52.99	52.93	−0.06	0.002
	147	242	0.229	0.076	0.002	58.35	−2.95	55.40	55.46	0.06	0.002
	148	243	0.229	0.070	0.002	59.90	−2.79	57.11	57.17	0.06	0.002
	149	244	0.229	0.070	0.002	62.66	−2.90	59.76	59.88	0.12	0.002
	150	245	0.229	0.057	0.002	64.47	−2.75	61.72	61.89	0.17	0.003
	151	246	0.236	0.045	0.003	67.44	−2.94	64.51	64.99	0.48	0.018
	152	247	0.236	0.045	0.003	69.51	−2.69	66.83			
	153	248	0.236	0.039	0.002	72.71	−2.56	70.15			
	154	249	0.236	0.033	0.003	75.03	−2.26	72.77			
	155	250	0.230	0.025	0.002	78.44	−2.13	76.32			
	156	251	0.222	0.018	0.002	81.01	−1.83	79.19			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
95	157	252	0.222	0.012	0.001	84.63	−1.79	82.84			
	158	253	0.223	0.006	0.001	87.44	−1.62	85.82			
	159	254	0.223	−0.007	−0.001	91.27	−1.75	89.52			
	160	255	0.223	−0.013	−0.002	94.32	−1.62	92.70			
	161	256	0.224	−0.031	−0.003	98.34	−1.75	96.59			
	162	257	0.224	−0.037	−0.004	101.63	−1.73	99.89			
	163	258	0.217	−0.044	−0.004	105.85	−1.75	104.10			
	164	259	0.217	−0.044	−0.004	109.36	−1.45	107.91			
96	130	226	0.140	0.069	−0.001	47.42	−0.22	47.20			
	131	227	0.170	0.079	0.000	47.90	−0.37	47.53			
	132	228	0.191	0.089	0.002	46.72	−0.45	46.27			
	133	229	0.192	0.095	0.003	47.48	−0.52	46.96			
	134	230	0.199	0.096	0.003	46.61	−0.71	45.90			
	135	231	0.199	0.103	0.003	47.65	−0.87	46.78			
	136	232	0.207	0.098	0.003	47.09	−1.05	46.04			
	137	233	0.207	0.104	0.004	48.39	−1.29	47.09			
	138	234	0.213	0.099	0.003	48.13	−1.59	46.54			
	139	235	0.213	0.099	0.003	49.69	−1.90	47.78			
	140	236	0.221	0.094	0.003	49.73	−2.07	47.65			
	141	237	0.213	0.099	0.003	51.53	−2.20	49.33			
	142	238	0.221	0.094	0.003	51.87	−2.45	49.42	49.38	−0.04	0.040
	143	239	0.221	0.087	0.003	53.92	−2.66	51.26			
	144	240	0.221	0.081	0.002	54.53	−2.62	51.91	51.70	−0.21	0.005
	145	241	0.229	0.076	0.002	56.82	−2.92	53.90	53.70	−0.20	0.006
	146	242	0.229	0.076	0.002	57.72	−2.83	54.89	54.80	−0.09	0.002
	147	243	0.236	0.071	0.002	60.24	−3.06	57.18	57.18	0.00	0.002
	148	244	0.236	0.065	0.002	61.41	−2.95	58.46	58.45	−0.01	0.002
	149	245	0.236	0.058	0.002	64.16	−3.11	61.05	61.00	−0.05	0.002
	150	246	0.236	0.052	0.002	65.60	−3.01	62.59	62.61	0.02	0.003
	151	247	0.236	0.039	0.002	68.58	−3.20	65.38	65.53	0.15	0.004
	152	248	0.236	0.033	0.003	70.27	−2.98	67.29	67.39	0.09	0.005
	153	249	0.236	0.033	0.003	73.47	−2.91	70.56	70.75	0.19	0.005
	154	250	0.236	0.027	0.002	75.42	−2.66	72.76	72.99	0.22	0.011
	155	251	0.230	0.019	0.002	78.83	−2.47	76.36	76.64	0.29	0.023
	156	252	0.230	0.013	0.001	81.03	−2.26	78.77			
	157	253	0.223	0.006	0.001	84.65	−2.17	82.48			
	158	254	0.223	0.000	0.000	87.10	−2.03	85.07			
	159	255	0.223	−0.013	−0.002	90.93	−2.17	88.76			
	160	256	0.223	−0.019	−0.002	93.61	−2.06	91.56			
	161	257	0.224	−0.031	−0.003	97.64	−2.21	95.43			
	162	258	0.224	−0.037	−0.004	100.57	−2.21	98.36			
	163	259	0.217	−0.044	−0.004	104.79	−2.23	102.56			
	164	260	0.217	−0.044	−0.004	107.94	−1.90	106.04			
	165	261	0.202	−0.040	−0.003	112.36	−1.79	110.57			
	166	262	0.171	−0.020	−0.001	115.74	−1.40	114.34			
97	132	229	0.243	0.072	0.001	53.89	−0.70	53.19			
	133	230	0.229	0.082	0.002	54.26	−0.85	53.41			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
97	134	231	0.221	0.087	0.003	53.34	−1.04	52.30			
	135	232	0.213	0.092	0.002	53.98	−1.14	52.84			
	136	233	0.213	0.092	0.002	53.37	−1.32	52.05			
	137	234	0.213	0.092	0.002	54.28	−1.66	52.62			
	138	235	0.221	0.087	0.003	53.98	−1.89	52.09			
	139	236	0.221	0.094	0.003	55.15	−2.17	52.98			
	140	237	0.221	0.087	0.003	55.14	−2.35	52.78			
	141	238	0.221	0.087	0.003	56.56	−2.49	54.07			
	142	239	0.221	0.087	0.003	56.85	−2.72	54.13			
	143	240	0.221	0.087	0.003	58.52	−2.92	55.60			
	144	241	0.229	0.076	0.002	59.09	−3.00	56.09			
	145	242	0.229	0.076	0.002	61.00	−3.20	57.80			
	146	243	0.236	0.071	0.002	61.85	−3.17	58.68	58.68	0.01	0.005
	147	244	0.236	0.071	0.002	64.00	−3.35	60.65	60.70	0.05	0.050
	148	245	0.236	0.065	0.002	65.12	−3.26	61.86	61.81	−0.05	0.002
	149	246	0.236	0.058	0.002	67.51	−3.43	64.07			
	150	247	0.236	0.045	0.003	68.90	−3.37	65.53	65.48	−0.04	0.006
	151	248	0.236	0.039	0.002	71.51	−3.54	67.97	68.11	0.14	0.020
	152	249	0.236	0.033	0.003	73.16	−3.35	69.81	69.84	0.04	0.003
	153	250	0.236	0.033	0.003	75.99	−3.27	72.72	72.95	0.23	0.006
	154	251	0.236	0.027	0.002	77.90	−3.05	74.85	75.22	0.37	0.011
	155	252	0.230	0.019	0.002	80.95	−2.85	78.09			
	156	253	0.230	0.013	0.001	83.11	−2.63	80.48			
	157	254	0.223	0.006	0.001	86.37	−2.53	83.84			
	158	255	0.223	0.000	0.000	88.78	−2.40	86.38			
	159	256	0.223	−0.013	−0.002	92.25	−2.53	89.72			
	160	257	0.223	−0.019	−0.002	94.89	−2.41	92.48			
	161	258	0.224	−0.031	−0.003	98.57	−2.53	96.04			
	162	259	0.224	−0.037	−0.004	101.45	−2.50	98.95			
	163	260	0.216	−0.038	−0.003	105.33	−2.49	102.84			
	164	261	0.216	−0.038	−0.003	108.44	−2.17	106.27			
	165	262	0.209	−0.033	−0.003	112.51	−2.01	110.51			
	166	263	0.186	−0.024	−0.001	115.85	−1.68	114.18			
	167	264	0.163	−0.021	−0.001	120.12	−1.56	118.56			
	168	265	0.155	−0.004	0.001	123.68	−1.56	122.12			
98	134	232	0.236	0.071	0.002	58.42	−0.93	57.50			
	135	233	0.221	0.081	0.002	59.06	−1.03	58.03			
	136	234	0.229	0.076	0.002	58.05	−1.24	56.82			
	137	235	0.221	0.087	0.003	58.96	−1.55	57.41			
	138	236	0.221	0.081	0.002	58.26	−1.73	56.53			
	139	237	0.221	0.087	0.003	59.42	−2.02	57.40			
	140	238	0.221	0.081	0.002	59.02	−2.18	56.85			
	141	239	0.221	0.081	0.002	60.44	−2.32	58.12			
	142	240	0.221	0.081	0.002	60.34	−2.55	57.79			
	143	241	0.229	0.076	0.002	62.01	−2.87	59.14			
	144	242	0.229	0.070	0.002	62.19	−2.88	59.32	59.32	0.00	0.040
	145	243	0.229	0.070	0.002	64.10	−3.10	61.01			
	146	244	0.236	0.065	0.002	64.57	−3.12	61.46	61.46	0.00	0.005

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
98	147	245	0.236	0.065	0.002	66.72	−3.32	63.40	63.38	−0.02	0.006
	148	246	0.236	0.052	0.002	67.46	−3.25	64.21	64.09	−0.12	0.002
	149	247	0.236	0.052	0.002	69.85	−3.45	66.40	66.13	−0.27	0.008
	150	248	0.236	0.039	0.002	70.86	−3.41	67.45	67.24	−0.21	0.004
	151	249	0.244	0.028	0.003	73.47	−3.68	69.79	69.72	−0.08	0.002
	152	250	0.244	0.022	0.002	74.75	−3.51	71.25	71.17	−0.08	0.003
	153	251	0.237	0.021	0.002	77.58	−3.43	74.15	74.13	−0.02	0.005
	154	252	0.237	0.014	0.002	79.12	−3.24	75.88	76.03	0.15	0.005
	155	253	0.230	0.013	0.001	82.17	−3.08	79.09	79.30	0.21	0.007
	156	254	0.230	0.007	0.001	83.96	−2.88	81.09	81.34	0.25	0.012
	157	255	0.231	−0.005	−0.001	87.23	−2.90	84.32			
	158	256	0.223	−0.007	−0.001	89.27	−2.70	86.57			
	159	257	0.223	−0.019	−0.002	92.74	−2.84	89.91			
	160	258	0.224	−0.025	−0.002	95.03	−2.81	92.21			
	161	259	0.224	−0.031	−0.003	98.71	−2.96	95.75			
	162	260	0.225	−0.043	−0.005	101.23	−2.96	98.27			
	163	261	0.217	−0.050	−0.005	105.11	−2.98	102.13			
	164	262	0.217	−0.044	−0.004	107.87	−2.63	105.24			
	165	263	0.210	−0.045	−0.004	111.94	−2.46	109.48			
	166	264	0.194	−0.035	−0.003	114.93	−2.12	112.82			
	167	265	0.164	−0.027	−0.001	119.20	−1.93	117.27			
	168	266	0.155	−0.009	0.000	122.41	−1.88	120.52			
	169	267	0.141	−0.005	0.001	126.87	−2.18	124.69			
	170	268	0.119	0.005	0.000	130.30	−2.05	128.25			
99	135	234	0.251	0.068	0.001	66.25	−1.22	65.03			
	136	235	0.243	0.066	0.002	65.19	−1.52	63.67			
	137	236	0.236	0.071	0.002	65.71	−1.71	64.00			
	138	237	0.236	0.071	0.002	64.96	−1.93	63.03			
	139	238	0.236	0.071	0.002	65.74	−2.13	63.61			
	140	239	0.229	0.076	0.002	65.30	−2.39	62.91			
	141	240	0.229	0.076	0.002	66.33	−2.54	63.79			
	142	241	0.229	0.070	0.002	66.18	−2.78	63.40			
	143	242	0.229	0.070	0.002	67.47	−3.03	64.44			
	144	243	0.229	0.070	0.002	67.61	−3.07	64.54			
	145	244	0.236	0.065	0.002	69.15	−3.35	65.80			
	146	245	0.236	0.058	0.002	69.57	−3.30	66.27			
	147	246	0.236	0.058	0.002	71.35	−3.51	67.84			
	148	247	0.236	0.052	0.002	72.05	−3.48	68.57	68.55	−0.02	0.040
	149	248	0.236	0.045	0.003	74.06	−3.68	70.38	70.29	−0.09	0.060
	150	249	0.244	0.034	0.002	75.03	−3.73	71.30	71.11	−0.19	0.050
	151	250	0.244	0.028	0.003	77.27	−3.95	73.33			
	152	251	0.244	0.022	0.002	78.51	−3.81	74.70	74.51	−0.19	0.006
	153	252	0.237	0.021	0.002	80.98	−3.73	77.25	77.29	0.04	0.050
	154	253	0.237	0.014	0.002	82.47	−3.57	78.90	79.01	0.10	0.003
	155	254	0.237	0.008	0.001	85.16	−3.54	81.63	81.99	0.37	0.006
	156	255	0.231	0.001	0.000	86.91	−3.26	83.65	84.08	0.43	0.011
	157	256	0.231	−0.005	−0.001	89.82	−3.29	86.53			
	158	257	0.231	−0.012	−0.001	91.82	−3.11	88.72			

Z	N	A	β_2	β_4	β_6	E^{sph}_{macr} (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
99	159	258	0.223	−0.019	−0.002	94.94	−3.20	91.74			
	160	259	0.224	−0.025	−0.002	97.18	−3.16	94.02			
	161	260	0.224	−0.031	−0.003	100.51	−3.32	97.19			
	162	261	0.225	−0.043	−0.005	103.00	−3.30	99.70			
	163	262	0.225	−0.049	−0.005	106.53	−3.38	103.15			
	164	263	0.217	−0.044	−0.004	109.25	−2.97	106.27			
	165	264	0.210	−0.039	−0.003	112.98	−2.78	110.20			
	166	265	0.194	−0.035	−0.003	115.92	−2.41	113.51			
	167	266	0.163	−0.021	−0.001	119.85	−2.12	117.73			
	168	267	0.163	−0.015	0.000	123.02	−2.11	120.91			
	169	268	0.155	−0.009	0.000	127.14	−2.23	124.91			
	170	269	0.133	−0.006	0.001	130.54	−2.26	128.28			
	171	270	0.111	−0.002	0.001	134.84	−2.36	132.48			
	172	271	0.112	−0.008	0.001	138.45	−2.43	136.03			
100	136	236	0.259	0.056	0.002	70.69	−1.29	69.40			
	137	237	0.251	0.061	0.002	71.20	−1.54	69.66			
	138	238	0.243	0.066	0.002	70.06	−1.78	68.28			
	139	239	0.236	0.071	0.002	70.83	−1.96	68.87			
	140	240	0.229	0.070	0.002	70.00	−2.19	67.81			
	141	241	0.229	0.070	0.002	71.03	−2.36	68.67			
	142	242	0.229	0.070	0.002	70.50	−2.59	67.91			
	143	243	0.229	0.070	0.002	71.78	−2.83	68.94			
	144	244	0.236	0.065	0.002	71.54	−2.94	68.59			
	145	245	0.236	0.058	0.002	73.07	−3.17	69.90			
	146	246	0.236	0.052	0.002	73.11	−3.16	69.95	70.12	0.17	0.040
	147	247	0.236	0.052	0.002	74.88	−3.40	71.49			
	148	248	0.244	0.041	0.002	75.21	−3.44	71.77	71.89	0.12	0.014
	149	249	0.244	0.034	0.002	77.22	−3.68	73.54			
	150	250	0.244	0.028	0.003	77.81	−3.71	74.10	74.06	−0.04	0.021
	151	251	0.244	0.022	0.002	80.06	−3.96	76.09	75.98	−0.11	0.009
	152	252	0.245	0.016	0.002	80.92	−3.87	77.05	76.81	−0.24	0.005
	153	253	0.245	0.009	0.001	83.39	−3.91	79.48	79.34	−0.14	0.005
	154	254	0.237	0.008	0.001	84.52	−3.71	80.80	80.90	0.10	0.004
	155	255	0.237	−0.004	−0.001	87.21	−3.75	83.46	83.79	0.33	0.005
	156	256	0.237	−0.004	−0.001	88.59	−3.55	85.04	85.48	0.44	0.007
	157	257	0.231	−0.012	−0.001	91.50	−3.56	87.94	88.58	0.64	0.007
	158	258	0.231	−0.018	−0.002	93.14	−3.42	89.72			
	159	259	0.232	−0.030	−0.004	96.26	−3.63	92.63			
	160	260	0.224	−0.031	−0.003	98.14	−3.55	94.60			
	161	261	0.224	−0.037	−0.004	101.47	−3.73	97.74			
	162	262	0.225	−0.049	−0.005	103.60	−3.75	99.85			
	163	263	0.225	−0.055	−0.005	107.13	−3.88	103.26			
	164	264	0.217	−0.050	−0.005	109.50	−3.47	106.03			
	165	265	0.211	−0.051	−0.004	113.23	−3.26	109.97			
	166	266	0.202	−0.040	−0.003	115.83	−2.87	112.96			
	167	267	0.171	−0.032	−0.001	119.76	−2.67	117.09			
	168	268	0.163	−0.021	−0.001	122.58	−2.50	120.08			
	169	269	0.155	−0.016	0.000	126.70	−2.59	124.11			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
100	170	270	0.133	−0.006	0.001	129.75	−2.62	127.13			
	171	271	0.111	−0.002	0.001	134.06	−2.73	131.33			
	172	272	0.112	−0.014	0.000	137.33	−2.79	134.53			
	173	273	0.105	−0.020	0.001	141.82	−2.86	138.96			
	174	274	0.105	−0.032	0.001	145.30	−2.76	142.54			
101	137	238	0.244	0.053	0.002	78.80	−1.70	77.10			
	138	239	0.236	0.058	0.002	77.61	−1.92	75.69			
	139	240	0.229	0.063	0.002	78.00	−2.10	75.90			
	140	241	0.229	0.063	0.002	77.12	−2.31	74.81			
	141	242	0.221	0.068	0.002	77.77	−2.34	75.43			
	142	243	0.229	0.063	0.002	77.19	−2.70	74.49			
	143	244	0.229	0.063	0.002	78.10	−2.95	75.15			
	144	245	0.229	0.057	0.002	77.81	−3.01	74.80			
	145	246	0.229	0.057	0.002	78.97	−3.23	75.74			
	146	247	0.236	0.045	0.003	78.96	−3.34	75.63			
	147	248	0.236	0.039	0.002	80.37	−3.59	76.78			
	148	249	0.236	0.033	0.003	80.64	−3.63	77.01			
	149	250	0.236	0.027	0.002	82.29	−3.85	78.44			
	150	251	0.244	0.022	0.002	82.84	−4.02	78.82			
	151	252	0.245	0.016	0.002	84.72	−4.31	80.41			
	152	253	0.245	0.009	0.001	85.54	−4.24	81.30			
	153	254	0.245	0.003	0.000	87.65	−4.28	83.37			
	154	255	0.237	0.002	0.000	88.73	−4.11	84.62	84.83	0.22	0.007
	155	256	0.237	−0.004	−0.001	91.06	−4.15	86.92	87.55	0.63	0.050
	156	257	0.238	−0.010	−0.001	92.40	−3.98	88.43			
	157	258	0.231	−0.018	−0.002	94.96	−4.00	90.96			
	158	259	0.232	−0.024	−0.002	96.55	−3.87	92.68			
	159	260	0.232	−0.030	−0.004	99.32	−4.10	95.22			
	160	261	0.224	−0.031	−0.003	101.17	−3.99	97.18			
	161	262	0.224	−0.037	−0.004	104.14	−4.19	99.96			
	162	263	0.225	−0.049	−0.005	106.23	−4.20	102.03			
	163	264	0.225	−0.055	−0.005	109.42	−4.32	105.10			
	164	265	0.217	−0.050	−0.005	111.74	−3.89	107.85			
	165	266	0.217	−0.050	−0.005	115.13	−3.63	111.50			
	166	267	0.210	−0.045	−0.004	117.69	−3.24	114.44			
	167	268	0.179	−0.037	−0.002	121.28	−2.98	118.29			
	168	269	0.164	−0.027	−0.001	124.06	−2.70	121.37			
	169	270	0.155	−0.016	0.000	127.84	−2.78	125.06			
	170	271	0.149	−0.016	0.000	130.86	−2.76	128.10			
	171	272	0.119	−0.007	0.001	134.83	−2.98	131.85			
	172	273	0.112	−0.014	0.000	138.06	−2.87	135.19			
	173	274	0.105	−0.020	0.001	142.22	−2.91	139.31			
	174	275	0.105	−0.032	0.001	145.67	−2.80	142.87			
	175	276	0.106	−0.044	0.001	150.01	−2.94	147.08			
	176	277	0.098	−0.045	0.001	153.67	−2.78	150.89			
102	138	240	0.236	0.052	0.002	83.51	−1.77	81.74			
	139	241	0.236	0.058	0.002	83.89	−1.91	81.98			

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
102	140	242	0.229	0.057	0.002	82.62	−2.11	80.52			
	141	243	0.221	0.062	0.002	83.27	−2.15	81.12			
	142	244	0.229	0.057	0.002	82.30	−2.48	79.82			
	143	245	0.229	0.057	0.002	83.21	−2.72	80.48			
	144	246	0.229	0.051	0.002	82.54	−2.80	79.74			
	145	247	0.229	0.051	0.002	83.69	−3.02	80.67			
	146	248	0.236	0.039	0.002	83.31	−3.17	80.14			
	147	249	0.236	0.033	0.003	84.71	−3.41	81.30			
	148	250	0.236	0.027	0.002	84.61	−3.48	81.13			
	149	251	0.237	0.021	0.002	86.25	−3.69	82.56			
	150	252	0.237	0.014	0.002	86.43	−3.86	82.57	82.86	0.28	0.018
	151	253	0.245	0.009	0.001	88.31	−4.25	84.06			
	152	254	0.245	0.003	0.000	88.76	−4.21	84.55	84.71	0.17	0.024
	153	255	0.237	−0.004	−0.001	90.87	−4.20	86.67	86.85	0.18	0.013
	154	256	0.238	−0.010	−0.001	91.58	−4.14	87.45	87.79	0.34	0.017
	155	257	0.238	−0.016	−0.002	93.92	−4.23	89.69	90.22	0.53	0.030
	156	258	0.231	−0.018	−0.002	94.89	−4.00	90.89			
	157	259	0.232	−0.024	−0.002	97.45	−4.10	93.34	94.02	0.68	0.011
	158	260	0.232	−0.030	−0.004	98.68	−4.09	94.59			
	159	261	0.224	−0.031	−0.003	101.45	−4.28	97.17			
	160	262	0.224	−0.037	−0.004	102.94	−4.30	98.64			
	161	263	0.225	−0.049	−0.005	105.92	−4.55	101.36			
	162	264	0.225	−0.055	−0.005	107.65	−4.60	103.05			
	163	265	0.226	−0.061	−0.006	110.83	−4.75	106.08			
	164	266	0.218	−0.062	−0.006	112.81	−4.34	108.46			
	165	267	0.218	−0.056	−0.005	116.20	−4.04	112.15			
	166	268	0.203	−0.052	−0.004	118.40	−3.72	114.68			
	167	269	0.172	−0.038	−0.002	121.99	−3.42	118.58			
	168	270	0.164	−0.033	−0.001	124.43	−3.19	121.24			
	169	271	0.156	−0.028	−0.001	128.22	−3.25	124.97			
	170	272	0.149	−0.022	−0.001	130.88	−3.20	127.69			
	171	273	0.119	−0.013	0.000	134.86	−3.44	131.43			
	172	274	0.112	−0.020	0.001	137.75	−3.34	134.41			
	173	275	0.105	−0.026	0.000	141.91	−3.42	138.50			
	174	276	0.105	−0.032	0.001	145.02	−3.28	141.74			
	175	277	0.106	−0.044	0.001	149.37	−3.46	145.92			
	176	278	0.098	−0.050	0.001	152.69	−3.27	149.43			
	177	279	−0.095	−0.020	0.000	157.22	−3.33	153.89			
	178	280	−0.088	−0.026	0.000	160.75	−3.00	157.75			
103	140	243	0.229	0.044	0.002	90.58	−2.17	88.41			
	141	244	0.229	0.051	0.002	90.85	−2.35	88.49			
	142	245	0.221	0.049	0.002	89.83	−2.45	87.38			
	143	246	0.221	0.049	0.002	90.36	−2.67	87.69			
	144	247	0.229	0.038	0.002	89.64	−2.88	86.77			
	145	248	0.229	0.038	0.002	90.43	−3.10	87.33			
	146	249	0.236	0.027	0.002	90.00	−3.27	86.74			
	147	250	0.236	0.027	0.002	91.03	−3.55	87.49			
	148	251	0.237	0.014	0.002	90.89	−3.66	87.23			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
103	149	252	0.237	0.014	0.002	92.17	−3.89	88.27			
	150	253	0.237	0.008	0.001	92.30	−4.12	88.18			
	151	254	0.245	0.003	0.000	93.81	−4.54	89.28			
	152	255	0.245	−0.003	−0.001	94.22	−4.54	89.69			
	153	256	0.238	−0.010	−0.001	95.97	−4.56	91.41			
	154	257	0.238	−0.016	−0.002	96.64	−4.54	92.10			
	155	258	0.238	−0.023	−0.002	98.62	−4.66	93.96			
	156	259	0.232	−0.024	−0.002	99.56	−4.43	95.12	95.84	0.72	0.050
	157	260	0.232	−0.030	−0.004	101.75	−4.59	97.16	98.13	0.97	0.070
	158	261	0.232	−0.030	−0.004	102.95	−4.58	98.37			
	159	262	0.224	−0.037	−0.004	105.36	−4.81	100.55			
	160	263	0.225	−0.043	−0.005	106.81	−4.84	101.96			
	161	264	0.225	−0.049	−0.005	109.44	−5.08	104.36			
	162	265	0.226	−0.061	−0.006	111.13	−5.15	105.98			
	163	266	0.226	−0.061	−0.006	113.97	−5.30	108.67			
	164	267	0.218	−0.062	−0.006	115.90	−4.88	111.02			
	165	268	0.218	−0.062	−0.006	118.95	−4.55	114.40			
	166	269	0.211	−0.057	−0.004	121.12	−4.21	116.91			
	167	270	0.180	−0.043	−0.002	124.37	−3.95	120.42			
	168	271	0.172	−0.038	−0.002	126.77	−3.63	123.14			
	169	272	0.164	−0.033	−0.001	130.22	−3.66	126.56			
	170	273	0.156	−0.034	−0.001	132.85	−3.52	129.32			
	171	274	0.134	−0.024	0.001	136.49	−3.80	132.69			
	172	275	0.127	−0.024	0.001	139.34	−3.67	135.66			
	173	276	0.112	−0.026	0.001	143.17	−3.73	139.44			
	174	277	0.106	−0.038	0.001	146.24	−3.49	142.75			
	175	278	0.106	−0.044	0.001	150.26	−3.65	146.62			
	176	279	0.106	−0.050	0.000	153.55	−3.42	150.12			
	177	280	−0.095	−0.020	0.000	157.75	−3.43	154.32			
104	141	245	0.221	0.049	0.002	97.13	−2.04	95.10			
	142	246	0.222	0.043	0.002	95.74	−2.24	93.50			
	143	247	0.221	0.049	0.002	96.26	−2.47	93.79			
	144	248	0.229	0.038	0.002	95.17	−2.67	92.50			
	145	249	0.230	0.032	0.002	95.94	−2.88	93.06			
	146	250	0.230	0.025	0.002	95.14	−3.01	92.13			
	147	251	0.237	0.021	0.002	96.17	−3.36	92.81			
	148	252	0.237	0.008	0.001	95.65	−3.53	92.13			
	149	253	0.237	0.008	0.001	96.93	−3.76	93.17			
	150	254	0.245	−0.003	−0.001	96.69	−4.09	92.60			
	151	255	0.245	−0.003	−0.001	98.20	−4.44	93.76			
	152	256	0.246	−0.009	−0.001	98.24	−4.47	93.78	94.23	0.46	0.029
	153	257	0.246	−0.015	−0.002	99.99	−4.56	95.43			
	154	258	0.238	−0.023	−0.002	100.30	−4.54	95.76			
	155	259	0.239	−0.029	−0.004	102.27	−4.68	97.59	98.28	0.69	0.040
	156	260	0.232	−0.030	−0.004	102.84	−4.51	98.33			
	157	261	0.232	−0.030	−0.004	105.04	−4.70	100.34			
	158	262	0.232	−0.036	−0.004	105.87	−4.72	101.15			
	159	263	0.225	−0.043	−0.005	108.29	−5.01	103.29			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
104	160	264	0.225	−0.049	−0.005	109.38	−5.06	104.32			
	161	265	0.225	−0.055	−0.005	112.01	−5.33	106.68			
	162	266	0.226	−0.067	−0.007	113.35	−5.41	107.93			
	163	267	0.226	−0.067	−0.007	116.19	−5.63	110.56			
	164	268	0.218	−0.068	−0.006	117.77	−5.22	112.55			
	165	269	0.218	−0.068	−0.006	120.82	−4.88	115.94			
	166	270	0.203	−0.064	−0.005	122.64	−4.55	118.09			
	167	271	0.180	−0.049	−0.003	125.89	−4.28	121.61			
	168	272	0.164	−0.039	−0.002	127.94	−3.89	124.05			
	169	273	0.156	−0.040	−0.001	131.39	−4.00	127.39			
	170	274	0.156	−0.040	−0.001	133.68	−3.87	129.81			
	171	275	0.119	−0.019	0.001	137.32	−4.12	133.20			
	172	276	0.112	−0.026	0.001	139.83	−4.02	135.81			
	173	277	0.105	−0.032	0.001	143.67	−4.13	139.54			
	174	278	0.106	−0.038	0.001	146.40	−4.01	142.39			
	175	279	0.106	−0.044	0.001	150.42	−4.18	146.24			
	176	280	0.098	−0.050	0.001	153.37	−3.93	149.44			
105	143	248	0.222	0.037	0.002	104.24	−2.55	101.69			
	144	249	0.230	0.025	0.002	103.10	−2.78	100.32			
	145	250	0.230	0.019	0.002	103.51	−3.00	100.51			
	146	251	0.237	0.008	0.001	102.66	−3.26	99.40			
	147	252	0.237	0.008	0.001	103.32	−3.57	99.75			
	148	253	0.237	0.002	0.000	102.76	−3.78	98.98			
	149	254	0.246	−0.009	−0.001	103.67	−4.05	99.62			
	150	255	0.246	−0.009	−0.001	103.39	−4.39	99.00			
	151	256	0.246	−0.009	−0.001	104.54	−4.74	99.80			
	152	257	0.246	−0.021	−0.003	104.53	−4.79	99.75			
	153	258	0.246	−0.021	−0.003	105.92	−4.92	101.00			
	154	259	0.247	−0.027	−0.004	106.19	−4.98	101.21			
	155	260	0.239	−0.029	−0.004	107.80	−5.14	102.67			
	156	261	0.232	−0.030	−0.004	108.34	−4.98	103.36			
	157	262	0.232	−0.036	−0.004	110.18	−5.20	104.98			
	158	263	0.233	−0.042	−0.004	110.97	−5.25	105.72			
	159	264	0.233	−0.048	−0.005	113.04	−5.61	107.43			
	160	265	0.225	−0.055	−0.005	114.09	−5.64	108.44			
	161	266	0.226	−0.061	−0.006	116.37	−5.93	110.44			
	162	267	0.234	−0.072	−0.007	117.67	−6.07	111.60			
	163	268	0.227	−0.073	−0.007	120.16	−6.24	113.92			
	164	269	0.219	−0.074	−0.007	121.71	−5.82	115.89			
	165	270	0.219	−0.074	−0.007	124.41	−5.49	118.92			
	166	271	0.212	−0.069	−0.005	126.19	−5.11	121.09			
	167	272	0.187	−0.060	−0.003	129.10	−4.84	124.26			
	168	273	0.172	−0.050	−0.003	131.12	−4.40	126.72			
	169	274	0.164	−0.045	−0.001	134.23	−4.44	129.79			
	170	275	0.156	−0.046	−0.001	136.48	−4.28	132.21			
	171	276	0.134	−0.036	0.000	139.79	−4.57	135.23			
	172	277	0.120	−0.031	0.000	142.27	−4.42	137.85			
	173	278	0.105	−0.032	0.001	145.77	−4.46	141.31			

Z	N	A	β_2	β_4	β_6	E^{sph}_{macr} (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
105	174	279	0.106	−0.038	0.001	148.47	−4.33	144.14			
	175	280	0.106	−0.044	0.001	152.16	−4.51	147.65			
106	146	252	0.237	0.002	0.000	108.58	−3.05	105.54			
	147	253	0.237	0.002	0.000	109.24	−3.34	105.90			
	148	254	0.246	−0.009	−0.001	108.31	−3.63	104.68			
	149	255	0.246	−0.015	−0.002	109.21	−3.86	105.35			
	150	256	0.246	−0.015	−0.002	108.56	−4.22	104.35			
	151	257	0.246	−0.015	−0.002	109.71	−4.57	105.13			
	152	258	0.254	−0.026	−0.004	109.34	−4.67	104.67			
	153	259	0.247	−0.027	−0.004	110.72	−4.79	105.93			
	154	260	0.239	−0.029	−0.004	110.63	−4.82	105.81	106.58	0.77	0.040
	155	261	0.239	−0.035	−0.004	112.24	−5.02	107.22			
	156	262	0.232	−0.036	−0.004	112.41	−4.97	107.44			
	157	263	0.233	−0.042	−0.004	114.25	−5.23	109.02	110.09	1.07	0.060
	158	264	0.233	−0.048	−0.005	114.69	−5.32	109.37			
	159	265	0.233	−0.054	−0.006	116.75	−5.71	111.05			
	160	266	0.234	−0.060	−0.006	117.45	−5.81	111.64			
	161	267	0.234	−0.066	−0.006	119.73	−6.10	113.63			
	162	268	0.235	−0.078	−0.007	120.68	−6.23	114.44			
	163	269	0.227	−0.079	−0.008	123.17	−6.44	116.73			
	164	270	0.219	−0.080	−0.007	124.36	−6.03	118.33			
	165	271	0.219	−0.080	−0.007	127.07	−5.74	121.33			
	166	272	0.212	−0.075	−0.007	128.51	−5.33	123.18			
	167	273	0.188	−0.066	−0.004	131.42	−5.05	126.37			
	168	274	0.164	−0.051	−0.002	133.09	−4.60	128.49			
	169	275	0.156	−0.046	−0.001	136.20	−4.67	131.53			
	170	276	0.150	−0.046	−0.001	138.11	−4.60	133.51			
	171	277	0.112	−0.020	0.001	141.42	−4.78	136.64			
	172	278	0.105	−0.026	0.000	143.55	−4.72	138.83			
	173	279	0.105	−0.032	0.001	147.06	−4.94	142.12			
	174	280	0.106	−0.044	0.001	149.42	−4.86	144.56			
107	148	255	0.254	−0.026	−0.004	116.22	−3.81	112.41			
	149	256	0.254	−0.026	−0.004	116.76	−4.09	112.68			
	150	257	0.254	−0.026	−0.004	116.07	−4.48	111.60			
	151	258	0.254	−0.026	−0.004	116.86	−4.83	112.03			
	152	259	0.247	−0.027	−0.004	116.45	−4.95	111.50			
	153	260	0.247	−0.027	−0.004	117.47	−5.10	112.38			
	154	261	0.247	−0.033	−0.004	117.34	−5.19	112.14			
	155	262	0.239	−0.041	−0.004	118.60	−5.41	113.18			
	156	263	0.240	−0.047	−0.005	118.73	−5.42	113.30			
	157	264	0.240	−0.047	−0.005	120.22	−5.70	114.52			
	158	265	0.233	−0.054	−0.006	120.61	−5.78	114.83			
	159	266	0.234	−0.060	−0.006	122.33	−6.19	116.13			
	160	267	0.234	−0.066	−0.006	122.98	−6.31	116.67			
	161	268	0.234	−0.072	−0.007	124.92	−6.59	118.32			
	162	269	0.235	−0.078	−0.007	125.82	−6.74	119.08			
	163	270	0.227	−0.079	−0.008	127.97	−6.95	121.02			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
107	164	271	0.219	−0.080	−0.007	129.13	−6.56	122.56			
	165	272	0.219	−0.080	−0.007	131.49	−6.27	125.22			
	166	273	0.212	−0.081	−0.007	132.89	−5.89	126.99			
	167	274	0.196	−0.077	−0.005	135.46	−5.68	129.78			
	168	275	0.173	−0.062	−0.002	137.10	−5.14	131.96			
	169	276	0.165	−0.057	−0.002	139.87	−5.18	134.70			
	170	277	0.157	−0.058	−0.002	141.74	−5.01	136.73			
	171	278	0.112	−0.020	0.001	144.72	−5.20	139.52			
	172	279	0.105	−0.026	0.000	146.82	−5.10	141.72			
	173	280	0.106	−0.038	0.001	149.99	−5.36	144.63			
108	149	257	0.247	−0.027	−0.004	123.08	−3.78	119.30			
	150	258	0.247	−0.027	−0.004	122.02	−4.17	117.85			
	151	259	0.247	−0.027	−0.004	122.80	−4.53	118.27			
	152	260	0.247	−0.033	−0.004	122.03	−4.64	117.39			
	153	261	0.240	−0.034	−0.004	123.05	−4.80	118.25			
	154	262	0.240	−0.041	−0.004	122.55	−4.96	117.59			
	155	263	0.233	−0.042	−0.004	123.81	−5.18	118.62			
	156	264	0.233	−0.048	−0.005	123.58	−5.24	118.34			
	157	265	0.233	−0.054	−0.006	125.07	−5.56	119.51			
	158	266	0.234	−0.060	−0.006	125.11	−5.69	119.42			
	159	267	0.234	−0.066	−0.006	126.82	−6.13	120.69			
	160	268	0.234	−0.072	−0.007	127.12	−6.27	120.84			
	161	269	0.235	−0.078	−0.007	129.05	−6.58	122.47			
	162	270	0.235	−0.084	−0.007	129.61	−6.70	122.90			
	163	271	0.227	−0.085	−0.008	131.76	−7.00	124.76			
	164	272	0.219	−0.086	−0.007	132.56	−6.63	125.93			
	165	273	0.219	−0.086	−0.007	134.93	−6.32	128.61			
	166	274	0.213	−0.087	−0.007	135.98	−5.95	130.03			
	167	275	0.188	−0.078	−0.004	138.55	−5.75	132.80			
	168	276	0.165	−0.063	−0.002	139.84	−5.31	134.53			
	169	277	0.127	−0.030	0.000	142.62	−5.33	137.29			
	170	278	0.104	−0.014	0.000	144.15	−5.05	139.10			
	171	279	0.104	−0.020	0.001	147.13	−5.53	141.60			
	172	280	0.104	−0.032	0.001	148.89	−5.55	143.34			
	173	281	0.105	−0.038	0.001	152.06	−5.82	146.24			
	174	282	0.098	−0.045	0.001	154.05	−5.68	148.38			
	175	283	0.098	−0.050	0.001	157.42	−5.88	151.54			
	176	284	0.091	−0.057	0.001	159.63	−5.63	154.00			
	177	285	0.077	−0.052	0.001	163.19	−5.95	157.24			
	178	286	−0.060	−0.022	−0.001	165.62	−5.33	160.29			
	179	287	−0.018	−0.006	0.000	169.36	−5.57	163.79			
	180	288	−0.003	0.000	0.000	172.01	−4.97	167.03			
	181	289	−0.003	0.000	0.000	175.94	−4.85	171.08			
	182	290	−0.003	0.000	0.000	178.79	−4.39	174.40			
	183	291	−0.003	0.000	0.000	182.90	−4.08	178.82			
	184	292	−0.003	0.000	0.000	185.96	−3.50	182.46			
	185	293	−0.003	−0.006	0.000	190.24	−2.35	187.89			
	186	294	−0.003	0.000	0.000	193.51	−2.06	191.46			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
108	187	295	−0.003	−0.006	0.000	197.97	−0.94	197.03			
	188	296	−0.003	0.000	0.000	201.43	−0.34	201.10			
	189	297	0.267	0.032	0.002	206.06	−0.35	205.71			
	190	298	0.267	0.026	0.003	209.72	−0.51	209.22			
	191	299	0.260	0.025	0.003	214.52	−0.65	213.87			
	192	300	0.260	0.019	0.002	218.37	−0.79	217.58			
	193	301	0.260	0.019	0.002	223.33	−0.95	222.38			
	194	302	0.268	0.007	0.000	227.38	−1.12	226.26			
	195	303	0.268	0.007	0.000	232.49	−1.35	231.15			
	196	304	0.268	−0.005	−0.002	236.73	−1.58	235.15			
109	150	259	0.240	−0.034	−0.004	130.34	−4.28	126.05			
	151	260	0.240	−0.028	−0.004	130.76	−4.66	126.10			
	152	261	0.240	−0.034	−0.004	129.94	−4.81	125.13			
	153	262	0.240	−0.041	−0.004	130.61	−5.00	125.61			
	154	263	0.233	−0.048	−0.005	130.07	−5.13	124.94			
	155	264	0.233	−0.048	−0.005	130.97	−5.44	125.53			
	156	265	0.225	−0.055	−0.005	130.70	−5.46	125.25			
	157	266	0.226	−0.061	−0.006	131.84	−5.78	126.06			
	158	267	0.226	−0.067	−0.007	131.84	−5.97	125.87			
	159	268	0.226	−0.067	−0.007	133.20	−6.44	126.76			
	160	269	0.227	−0.079	−0.008	133.46	−6.60	126.86			
	161	270	0.227	−0.079	−0.008	135.05	−6.95	128.10			
	162	271	0.236	−0.090	−0.008	135.57	−7.07	128.49			
	163	272	0.228	−0.091	−0.008	137.37	−7.40	129.97			
	164	273	0.220	−0.092	−0.008	138.14	−7.03	131.11			
	165	274	0.220	−0.092	−0.008	140.16	−6.73	133.43			
	166	275	0.213	−0.087	−0.007	141.18	−6.35	134.83			
	167	276	0.197	−0.083	−0.005	143.41	−6.22	137.20			
	168	277	0.165	−0.063	−0.002	144.67	−5.83	138.84			
	169	278	0.120	−0.031	0.000	147.11	−5.76	141.35			
	170	279	0.104	−0.020	0.001	148.60	−5.56	143.04			
	171	280	0.104	−0.026	0.000	151.24	−6.00	145.25			
	172	281	0.105	−0.038	0.001	152.97	−5.98	146.99			
	173	282	0.105	−0.044	0.001	155.81	−6.23	149.58			
	174	283	0.098	−0.050	0.001	157.77	−6.06	151.71			
	175	284	0.099	−0.056	0.000	160.81	−6.25	154.56			
	176	285	0.091	−0.063	−0.001	162.98	−5.92	157.06			
	177	286	0.077	−0.052	0.001	166.21	−6.18	160.03			
	178	287	−0.052	−0.022	0.000	168.61	−5.81	162.80			
	179	288	−0.011	−0.006	0.000	172.03	−6.00	166.03			
	180	289	−0.003	0.000	0.000	174.64	−5.48	169.17			
	181	290	−0.003	0.000	0.000	178.25	−5.35	172.90			
	182	291	−0.003	0.000	0.000	181.07	−4.86	176.22			
	183	292	−0.003	0.000	0.000	184.86	−4.56	180.30			
	184	293	−0.003	0.000	0.000	187.89	−3.96	183.93			
	185	294	−0.003	−0.006	0.000	191.86	−2.81	189.05			
	186	295	−0.003	0.000	0.000	195.10	−2.54	192.56			
	187	296	−0.003	−0.006	0.000	199.24	−1.41	197.82			

Z	N	A	β_2	β_4	β_6	$E^{\rm sph}_{\rm macr}$ (MeV)	Micr. (MeV)	$M_{\rm th}$ (MeV)	$M_{\rm exp}$ (MeV)	Discr. (MeV)	$\sigma_{\rm exp}$ (MeV)
109	188	297	−0.003	0.000	0.000	202.67	−0.84	201.83			
	189	298	−0.003	0.000	0.000	206.99	0.24	207.23			
	190	299	0.267	0.026	0.003	210.62	−0.52	210.10			
	191	300	0.267	0.026	0.003	215.10	−0.65	214.46			
	192	301	0.260	0.019	0.002	218.93	−0.74	218.19			
	193	302	0.260	0.019	0.002	223.58	−0.90	222.68			
	194	303	0.261	0.006	0.000	227.60	−1.05	226.55			
	195	304	0.261	0.006	0.000	232.41	−1.27	231.15			
	196	305	0.261	−0.006	−0.001	236.62	−1.42	235.19			
110	150	260	0.232	−0.030	−0.004	137.05	−3.82	133.23			
	151	261	0.232	−0.030	−0.004	137.46	−4.16	133.31			
	152	262	0.232	−0.036	−0.004	136.29	−4.33	131.95			
	153	263	0.233	−0.042	−0.004	136.95	−4.52	132.43			
	154	264	0.225	−0.043	−0.005	136.05	−4.67	131.37			
	155	265	0.225	−0.049	−0.005	136.95	−4.96	131.99			
	156	266	0.225	−0.055	−0.005	136.32	−5.07	131.25			
	157	267	0.226	−0.061	−0.006	137.45	−5.39	132.07			
	158	268	0.226	−0.067	−0.007	137.10	−5.59	131.51			
	159	269	0.227	−0.073	−0.007	138.46	−6.07	132.39			
	160	270	0.227	−0.079	−0.008	138.37	−6.23	132.13			
	161	271	0.227	−0.085	−0.008	139.95	−6.55	133.40			
	162	272	0.228	−0.091	−0.008	140.12	−6.76	133.35			
	163	273	0.220	−0.092	−0.008	141.93	−7.11	134.82			
	164	274	0.220	−0.092	−0.008	142.35	−6.69	135.66			
	165	275	0.220	−0.098	−0.008	144.37	−6.43	137.94			
	166	276	0.213	−0.093	−0.008	145.04	−6.07	138.96			
	167	277	0.188	−0.078	−0.004	147.27	−6.13	141.14			
	168	278	0.142	−0.047	0.000	148.18	−5.85	142.33			
	169	279	0.112	−0.026	0.001	150.63	−6.01	144.61			
	170	280	0.104	−0.020	0.001	151.78	−5.98	145.79			
	171	281	0.104	−0.026	0.000	154.43	−6.39	148.03			
	172	282	0.098	−0.038	0.001	155.81	−6.37	149.44			
	173	283	0.098	−0.045	0.001	158.66	−6.63	152.03			
	174	284	0.091	−0.045	0.001	160.27	−6.50	153.77			
	175	285	0.091	−0.057	0.001	163.32	−6.75	156.57			
	176	286	0.083	−0.057	0.000	165.16	−6.50	158.66			
	177	287	0.069	−0.052	0.001	168.40	−6.85	161.55			
	178	288	−0.046	−0.023	0.000	170.46	−6.64	163.82			
	179	289	−0.011	−0.006	0.000	173.88	−6.72	167.16			
	180	290	−0.003	−0.006	0.000	176.17	−6.25	169.92			
	181	291	−0.003	0.000	0.000	179.78	−6.09	173.69			
	182	292	−0.003	0.000	0.000	182.27	−5.58	176.70			
	183	293	−0.003	0.000	0.000	186.07	−5.27	180.79			
	184	294	−0.003	0.000	0.000	188.77	−4.66	184.11			
	185	295	−0.003	−0.006	0.000	192.74	−3.52	189.23			
	186	296	−0.003	0.000	0.000	195.66	−3.25	192.41			
	187	297	−0.003	−0.006	0.000	199.80	−2.13	197.67			
	188	298	−0.003	0.000	0.000	202.92	−1.57	201.35			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
110	189	299	−0.003	0.000	0.000	207.24	−0.48	206.76			
	190	300	−0.003	0.000	0.000	210.55	−0.05	210.51			
	191	301	0.402	0.002	−0.006	215.04	−0.89	214.16			
	192	302	0.267	0.026	0.003	218.55	−0.69	217.86			
	193	303	0.267	0.026	0.003	223.21	−0.85	222.36			
	194	304	0.267	0.020	0.002	226.91	−0.97	225.94			
	195	305	0.267	0.014	0.002	231.73	−1.15	230.58			
	196	306	0.268	0.007	0.000	235.62	−1.33	234.29			
111	150	261	0.224	−0.025	−0.002	146.15	−3.77	142.38			
	151	262	0.224	−0.025	−0.002	146.21	−4.09	142.12			
	152	263	0.224	−0.031	−0.003	144.99	−4.28	140.71			
	153	264	0.224	−0.031	−0.003	145.30	−4.50	140.80			
	154	265	0.216	−0.038	−0.003	144.35	−4.67	139.68			
	155	266	0.217	−0.044	−0.004	144.90	−4.99	139.91			
	156	267	0.217	−0.050	−0.005	144.24	−5.11	139.13			
	157	268	0.218	−0.056	−0.005	145.02	−5.42	139.60			
	158	269	0.218	−0.062	−0.006	144.62	−5.62	139.01			
	159	270	0.218	−0.068	−0.006	145.64	−6.08	139.56			
	160	271	0.219	−0.074	−0.007	145.51	−6.22	139.29			
	161	272	0.219	−0.080	−0.007	146.75	−6.57	140.18			
	162	273	0.220	−0.092	−0.008	146.88	−6.58	140.29			
	163	274	0.220	−0.092	−0.008	148.34	−7.00	141.34			
	164	275	0.220	−0.098	−0.008	148.72	−6.43	142.29			
	165	276	0.213	−0.093	−0.008	150.41	−6.45	143.96			
	166	277	0.188	−0.078	−0.004	151.04	−6.48	144.55			
	167	278	0.165	−0.063	−0.002	152.94	−6.35	146.59			
	168	279	0.142	−0.047	0.000	153.81	−6.34	147.47			
	169	280	0.104	−0.020	0.001	155.92	−6.58	149.34			
	170	281	0.097	−0.015	0.001	157.03	−6.64	150.40			
	171	282	0.098	−0.021	0.001	159.35	−7.08	152.27			
	172	283	0.090	−0.027	0.001	160.70	−7.07	153.63			
	173	284	0.090	−0.039	0.001	163.21	−7.32	155.90			
	174	285	0.083	−0.045	0.001	164.80	−7.19	157.61			
	175	286	0.083	−0.045	0.001	167.51	−7.42	160.09			
	176	287	0.069	−0.046	0.001	169.32	−7.24	162.08			
	177	288	−0.060	−0.022	−0.001	172.23	−7.58	164.65			
	178	289	−0.039	−0.017	0.000	174.26	−7.40	166.86			
	179	290	−0.010	−0.012	0.000	177.36	−7.37	169.99			
	180	291	−0.003	−0.006	0.000	179.61	−6.88	172.73			
	181	292	−0.003	−0.006	0.000	182.90	−6.79	176.11			
	182	293	−0.003	−0.006	0.000	185.37	−6.28	179.09			
	183	294	−0.003	−0.006	0.000	188.84	−5.95	182.89			
	184	295	−0.003	0.000	0.000	191.52	−5.30	186.22			
	185	296	−0.003	−0.006	0.000	195.17	−4.14	191.03			
	186	297	−0.003	0.000	0.000	198.05	−3.90	194.16			
	187	298	−0.003	−0.006	0.000	201.88	−2.78	199.10			
	188	299	−0.003	−0.006	0.000	204.97	−2.26	202.71			
	189	300	−0.003	−0.006	0.000	208.98	−1.20	207.78			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
111	190	301	−0.003	−0.006	0.000	212.26	−0.75	211.52			
	191	302	0.409	0.004	−0.005	216.44	−1.04	215.40			
	192	303	0.401	0.008	−0.005	219.93	−0.80	219.13			
	193	304	0.394	−0.007	−0.006	224.27	−1.00	223.27			
	194	305	0.267	0.014	0.002	227.95	−0.90	227.05			
	195	306	0.267	0.014	0.002	232.46	−1.06	231.40			
	196	307	0.268	0.001	−0.001	236.33	−1.25	235.08			
112	150	262	0.223	−0.019	−0.002	153.62	−3.48	150.13			
	151	263	0.223	−0.019	−0.002	153.67	−3.79	149.88			
	152	264	0.224	−0.031	−0.003	152.09	−3.96	148.13			
	153	265	0.224	−0.031	−0.003	152.39	−4.16	148.23			
	154	266	0.216	−0.038	−0.003	151.09	−4.32	146.76			
	155	267	0.216	−0.038	−0.003	151.63	−4.62	147.01			
	156	268	0.217	−0.050	−0.005	150.61	−4.74	145.87			
	157	269	0.211	−0.051	−0.004	151.39	−5.05	146.34			
	158	270	0.211	−0.057	−0.004	150.64	−5.26	145.38			
	159	271	0.218	−0.068	−0.006	151.65	−5.72	145.93			
	160	272	0.219	−0.074	−0.007	151.17	−5.90	145.27			
	161	273	0.219	−0.080	−0.007	152.41	−6.26	146.15			
	162	274	0.220	−0.092	−0.008	152.19	−6.21	145.98			
	163	275	0.220	−0.092	−0.008	153.65	−6.46	147.19			
	164	276	0.213	−0.093	−0.008	153.69	−6.13	147.55			
	165	277	0.189	−0.084	−0.005	155.37	−6.41	148.96			
	166	278	0.165	−0.063	−0.002	155.66	−6.11	149.54			
	167	279	0.158	−0.052	−0.002	157.55	−6.22	151.33			
	168	280	0.082	−0.004	0.001	158.09	−6.67	151.42			
	169	281	0.090	−0.009	0.000	160.20	−7.01	153.18			
	170	282	0.082	−0.004	0.001	160.97	−7.01	153.96			
	171	283	0.082	−0.010	0.000	163.29	−7.46	155.83			
	172	284	0.083	−0.022	0.001	164.30	−7.49	156.81			
	173	285	0.083	−0.027	0.001	166.82	−7.73	159.09			
	174	286	0.076	−0.040	0.001	168.07	−7.62	160.45			
	175	287	0.069	−0.046	0.001	170.78	−7.83	162.95			
	176	288	0.054	−0.041	0.001	172.26	−7.96	164.29			
	177	289	−0.053	−0.016	0.000	175.17	−7.86	167.31			
	178	290	−0.032	−0.017	0.000	176.87	−7.96	168.91			
	179	291	−0.011	−0.006	0.000	179.98	−7.96	172.02			
	180	292	−0.003	−0.006	0.000	181.90	−7.49	174.41			
	181	293	−0.003	−0.006	0.000	185.19	−7.40	177.79			
	182	294	−0.003	0.000	0.000	187.33	−6.90	180.43			
	183	295	−0.003	0.000	0.000	190.81	−6.59	184.22			
	184	296	−0.003	0.000	0.000	193.16	−5.94	187.22			
	185	297	−0.003	−0.006	0.000	196.82	−4.78	192.03			
	186	298	−0.003	0.000	0.000	199.38	−4.56	194.82			
	187	299	−0.003	−0.006	0.000	203.22	−3.44	199.78			
	188	300	−0.003	0.000	0.000	205.98	−2.93	203.05			
	189	301	−0.003	−0.006	0.000	210.00	−1.86	208.14			
	190	302	−0.003	0.000	0.000	212.96	−1.43	211.53			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
112	191	303	0.417	0.006	−0.005	217.15	−1.50	215.65			
	192	304	0.408	0.010	−0.004	220.32	−1.23	219.09			
	193	305	0.402	0.002	−0.006	224.67	−1.18	223.49			
	194	306	0.394	0.000	−0.006	228.03	−1.13	226.91			
	195	307	0.386	−0.009	−0.006	232.55	−1.20	231.36			
	196	308	0.354	−0.004	−0.005	236.10	−1.43	234.68			
113	150	263	0.208	−0.009	−0.001	163.49	−3.18	160.31			
	151	264	0.215	−0.014	−0.002	163.19	−3.45	159.74			
	152	265	0.216	−0.026	−0.002	161.57	−3.69	157.88			
	153	266	0.216	−0.026	−0.002	161.52	−3.89	157.63			
	154	267	0.210	−0.039	−0.003	160.18	−4.14	156.04			
	155	268	0.210	−0.039	−0.003	160.37	−4.45	155.92			
	156	269	0.202	−0.046	−0.004	159.31	−4.49	154.81			
	157	270	0.203	−0.052	−0.004	159.74	−4.83	154.91			
	158	271	0.203	−0.058	−0.004	158.95	−5.04	153.91			
	159	272	0.212	−0.069	−0.005	159.62	−5.50	154.12			
	160	273	0.212	−0.075	−0.007	159.10	−5.64	153.46			
	161	274	0.219	−0.086	−0.007	159.99	−5.83	154.16			
	162	275	0.220	−0.098	−0.008	159.73	−6.01	153.72			
	163	276	0.213	−0.093	−0.008	160.86	−6.41	154.45			
	164	277	0.205	−0.094	−0.007	160.85	−6.11	154.74			
	165	278	0.182	−0.085	−0.004	162.20	−6.04	156.16			
	166	279	0.039	0.013	0.001	162.45	−7.07	155.38			
	167	280	0.053	0.019	0.001	164.01	−7.38	156.63			
	168	281	0.061	0.013	0.001	164.51	−7.52	156.99			
	169	282	0.068	0.014	0.000	166.28	−7.87	158.41			
	170	283	0.068	0.002	0.000	167.02	−7.78	159.24			
	171	284	0.076	−0.004	0.001	169.01	−8.23	160.78			
	172	285	0.068	−0.016	0.001	169.98	−8.29	161.70			
	173	286	0.068	−0.022	0.001	172.17	−8.48	163.69			
	174	287	0.061	−0.028	0.001	173.38	−8.36	165.02			
	175	288	0.061	−0.040	0.001	175.77	−8.63	167.14			
	176	289	−0.039	−0.005	0.000	177.22	−8.49	168.73			
	177	290	−0.046	−0.017	0.000	179.80	−8.57	171.23			
	178	291	−0.032	−0.017	0.000	181.47	−8.46	173.01			
	179	292	−0.011	−0.006	0.000	184.25	−8.36	175.90			
	180	293	−0.003	−0.006	0.000	186.14	−7.85	178.29			
	181	294	−0.003	−0.006	0.000	189.12	−7.74	181.38			
	182	295	−0.003	0.000	0.000	191.22	−7.16	184.06			
	183	296	−0.003	0.000	0.000	194.38	−6.86	187.52			
	184	297	−0.003	0.000	0.000	196.70	−6.20	190.50			
	185	298	−0.003	−0.006	0.000	200.04	−5.07	194.97			
	186	299	−0.003	0.000	0.000	202.58	−4.84	197.74			
	187	300	−0.003	−0.006	0.000	206.10	−3.74	202.35			
	188	301	−0.003	0.000	0.000	208.84	−3.24	205.60			
	189	302	−0.003	0.006	0.000	212.54	−2.16	210.38			
	190	303	−0.003	−0.006	0.000	215.48	−1.78	213.69			
	191	304	−0.003	0.006	0.000	219.35	−0.79	218.56			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
113	192	305	−0.003	−0.006	0.000	222.49	−0.48	222.01			
	193	306	0.409	−0.002	−0.006	226.54	−1.46	225.08			
	194	307	0.402	0.002	−0.006	229.87	−1.22	228.66			
	195	308	0.394	−0.007	−0.006	234.09	−1.26	232.82			
	196	309	0.385	−0.002	−0.006	237.61	−1.14	236.47			
114	150	264	0.208	−0.003	0.000	171.70	−3.11	168.60			
	151	265	0.215	−0.008	−0.001	171.39	−3.39	168.00			
	152	266	0.216	−0.020	−0.002	169.41	−3.53	165.88			
	153	267	0.216	−0.026	−0.002	169.35	−3.70	165.65			
	154	268	0.209	−0.033	−0.003	167.66	−3.84	163.82			
	155	269	0.202	−0.034	−0.003	167.84	−4.13	163.72			
	156	270	0.194	−0.041	−0.003	166.43	−4.21	162.22			
	157	271	0.194	−0.047	−0.004	166.85	−4.49	162.37			
	158	272	0.195	−0.053	−0.004	165.71	−4.66	161.06			
	159	273	0.203	−0.064	−0.005	166.38	−5.07	161.31			
	160	274	0.204	−0.070	−0.005	165.51	−5.18	160.32			
	161	275	0.212	−0.081	−0.007	166.40	−5.49	160.91			
	162	276	0.213	−0.093	−0.008	165.79	−5.54	160.25			
	163	277	0.205	−0.094	−0.007	166.91	−5.94	160.98			
	164	278	−0.003	0.000	0.000	166.57	−6.85	159.72			
	165	279	−0.003	0.000	0.000	167.91	−7.33	160.58			
	166	280	−0.011	0.000	0.000	167.82	−7.65	160.16			
	167	281	−0.039	0.006	0.000	169.38	−7.97	161.41			
	168	282	−0.046	0.013	0.001	169.53	−7.93	161.60			
	169	283	0.053	0.013	0.001	171.31	−8.46	162.85			
	170	284	0.053	0.007	0.000	171.71	−8.15	163.56			
	171	285	0.053	0.001	0.000	173.69	−8.60	165.10			
	172	286	−0.067	0.031	0.001	174.34	−8.58	165.75			
	173	287	0.053	−0.017	0.000	176.53	−8.91	167.62			
	174	288	−0.039	0.018	0.000	177.40	−8.76	168.64			
	175	289	−0.039	0.012	0.001	179.80	−9.01	170.79			
	176	290	−0.024	0.006	0.000	180.91	−8.92	171.99			
	177	291	−0.032	−0.011	0.000	183.50	−9.06	174.43			
	178	292	−0.018	−0.012	0.000	184.84	−8.88	175.95			
	179	293	−0.003	−0.006	0.000	187.62	−8.85	178.77			
	180	294	−0.003	0.000	0.000	189.18	−8.43	180.75			
	181	295	−0.003	0.000	0.000	192.16	−8.32	183.84			
	182	296	−0.003	0.000	0.000	193.94	−7.77	186.17			
	183	297	−0.003	0.000	0.000	197.10	−7.46	189.64			
	184	298	−0.003	0.000	0.000	199.10	−6.80	192.30			
	185	299	−0.003	−0.006	0.000	202.45	−5.65	196.80			
	186	300	−0.003	0.000	0.000	204.66	−5.46	199.20			
	187	301	−0.003	−0.006	0.000	208.19	−4.34	203.85			
	188	302	−0.003	0.000	0.000	210.60	−3.88	206.73			
	189	303	−0.003	−0.006	0.000	214.31	−2.80	211.51			
	190	304	−0.003	0.000	0.000	216.93	−2.41	214.52			
	191	305	−0.003	−0.006	0.000	220.81	−1.39	219.42			
	192	306	−0.003	0.000	0.000	223.64	−1.10	222.54			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
114	193	307	0.417	0.006	−0.005	227.69	−1.92	225.76			
	194	308	0.408	0.010	−0.004	230.71	−1.64	229.07			
	195	309	0.402	−0.004	−0.006	234.93	−1.50	233.43			
	196	310	0.394	0.000	−0.006	238.15	−1.42	236.73			
115	150	265	0.170	0.004	0.001	182.34	−2.92	179.42			
	151	266	0.193	0.001	0.001	181.68	−3.25	178.43			
	152	267	0.178	−0.007	0.000	179.66	−3.38	176.28			
	153	268	0.185	−0.018	−0.001	179.25	−3.63	175.62			
	154	269	0.171	−0.020	−0.001	177.51	−3.77	173.74			
	155	270	0.179	−0.025	−0.001	177.35	−4.05	173.30			
	156	271	0.164	−0.027	−0.001	175.90	−4.17	171.73			
	157	272	0.172	−0.038	−0.002	175.98	−4.48	171.49			
	158	273	0.172	−0.044	−0.002	174.80	−4.77	170.03			
	159	274	0.187	−0.060	−0.003	175.12	−5.19	169.92			
	160	275	0.188	−0.072	−0.004	174.21	−5.42	168.79			
	161	276	0.204	−0.082	−0.006	174.76	−5.73	169.03			
	162	277	0.205	−0.094	−0.007	174.11	−5.43	168.68			
	163	278	0.197	−0.095	−0.006	174.90	−6.34	168.55			
	164	279	0.032	0.012	0.000	174.51	−7.49	167.02			
	165	280	0.039	0.024	0.001	175.52	−7.92	167.60			
	166	281	0.047	0.025	0.000	175.38	−7.90	167.49			
	167	282	0.061	0.025	0.001	176.61	−8.27	168.35			
	168	283	0.061	0.019	0.000	176.73	−8.42	168.31			
	169	284	0.068	0.020	0.000	178.18	−8.73	169.45			
	170	285	0.068	0.014	0.000	178.54	−8.56	169.98			
	171	286	0.068	0.002	0.000	180.20	−9.01	171.19			
	172	287	0.061	−0.005	0.001	180.80	−9.10	171.70			
	173	288	0.061	−0.017	0.001	182.66	−9.22	173.45			
	174	289	0.053	−0.023	0.001	183.51	−9.06	174.44			
	175	290	0.054	−0.035	0.001	185.57	−9.34	176.23			
	176	291	−0.046	−0.011	0.000	186.65	−9.35	177.30			
	177	292	−0.052	−0.022	0.000	188.92	−7.63	181.29			
	178	293	−0.039	−0.023	0.000	190.22	−9.22	181.00			
	179	294	−0.018	−0.012	0.000	192.68	−9.30	183.38			
	180	295	−0.010	−0.012	0.000	194.21	−8.76	185.46			
	181	296	−0.003	−0.006	0.000	196.87	−8.51	188.36			
	182	297	−0.003	−0.006	0.000	198.62	−7.93	190.69			
	183	298	−0.003	−0.006	0.000	201.47	−7.59	193.87			
	184	299	−0.003	0.000	0.000	203.43	−6.90	196.53			
	185	300	−0.003	−0.012	0.000	206.46	−5.76	200.71			
	186	301	−0.003	−0.006	0.000	208.64	−5.56	203.08			
	187	302	−0.003	−0.012	0.000	211.86	−4.45	207.41			
	188	303	−0.003	−0.006	0.000	214.25	−4.00	210.25			
	189	304	−0.003	−0.006	0.000	217.64	−2.93	214.71			
	190	305	−0.003	−0.006	0.000	220.24	−2.54	217.69			
	191	306	−0.003	−0.012	0.000	223.81	−1.54	222.26			
	192	307	0.424	0.022	−0.004	226.60	−2.57	224.04			
	193	308	0.416	0.013	−0.004	230.35	−2.27	228.08			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
115	194	309	0.416	0.013	−0.004	233.34	−2.10	231.25			
	195	310	0.409	0.004	−0.005	237.26	−1.85	235.41			
	196	311	0.401	0.008	−0.005	240.45	−1.63	238.82			
116	150	266	0.178	0.005	0.001	191.28	−2.71	188.57			
	151	267	0.208	0.003	0.001	190.61	−3.09	187.52			
	152	268	0.185	−0.006	0.000	188.23	−3.14	185.09			
	153	269	0.193	−0.011	0.000	187.82	−3.35	184.47			
	154	270	0.171	−0.020	−0.001	185.73	−3.44	182.28			
	155	271	0.179	−0.025	−0.001	185.56	−3.71	181.85			
	156	272	0.164	−0.027	−0.001	183.75	−3.84	179.91			
	157	273	0.164	−0.033	−0.001	183.82	−4.07	179.76			
	158	274	0.164	−0.039	−0.002	182.29	−4.36	177.94			
	159	275	0.180	−0.055	−0.003	182.61	−4.78	177.83			
	160	276	0.082	0.014	0.000	181.35	−4.40	176.95			
	161	277	0.196	−0.077	−0.005	181.90	−5.32	176.58			
	162	278	0.068	0.014	0.000	180.91	−5.41	175.50			
	163	279	0.061	0.019	0.000	181.69	−5.89	175.80			
	164	280	0.053	0.019	0.001	180.96	−5.17	175.79			
	165	281	0.061	0.019	0.000	181.96	−6.98	174.98			
	166	282	0.061	0.019	0.000	181.49	−7.18	174.32			
	167	283	0.068	0.020	0.000	182.72	−7.64	175.08			
	168	284	0.068	0.020	0.000	182.50	−7.73	174.76			
	169	285	0.076	0.020	0.000	183.94	−8.07	175.87			
	170	286	0.076	0.008	0.001	183.97	−7.98	175.99			
	171	287	0.076	0.002	0.000	185.62	−8.38	177.24			
	172	288	0.068	−0.004	0.001	185.90	−8.37	177.53			
	173	289	0.068	−0.010	0.000	187.76	−8.61	179.15			
	174	290	0.061	−0.023	0.001	188.27	−8.47	179.80			
	175	291	0.061	−0.034	0.001	190.34	−8.72	181.61			
	176	292	−0.060	−0.010	0.000	191.08	−9.13	181.96			
	177	293	−0.060	−0.022	−0.001	193.35	−8.87	184.48			
	178	294	−0.046	−0.023	0.000	194.33	−8.87	185.46			
	179	295	−0.018	−0.012	0.000	196.79	−9.09	187.71			
	180	296	−0.011	−0.006	0.000	198.00	−8.57	189.42			
	181	297	−0.003	−0.006	0.000	200.66	−8.34	192.32			
	182	298	−0.003	0.000	0.000	202.08	−7.72	194.36			
	183	299	−0.003	0.000	0.000	204.93	−7.36	197.58			
	184	300	−0.003	0.000	0.000	206.58	−6.66	199.92			
	185	301	−0.003	−0.006	0.000	209.61	−5.51	204.10			
	186	302	−0.003	0.000	0.000	211.47	−5.34	206.13			
	187	303	−0.003	−0.006	0.000	214.69	−4.24	210.45			
	188	304	−0.003	−0.006	0.000	216.76	−3.82	212.95			
	189	305	0.424	0.028	−0.003	220.16	−3.66	216.50			
	190	306	0.424	0.022	−0.004	222.44	−3.42	219.02			
	191	307	0.425	0.015	−0.004	226.01	−3.19	222.82			
	192	308	0.425	0.015	−0.004	228.50	−3.01	225.49			
	193	309	0.425	0.015	−0.004	232.25	−2.84	229.41			
	194	310	0.416	0.013	−0.004	234.93	−2.50	232.43			

Z	N	A	β_2	β_4	β_6	$E^{\text{sph}}_{\text{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
116	195	311	0.409	0.004	−0.005	238.85	−2.21	236.64			
	196	312	0.408	0.010	−0.004	241.73	−2.01	239.72			
117	150	267	0.148	0.008	0.001	202.68	−2.58	200.10			
	151	268	0.163	0.004	0.001	201.65	−2.84	198.81			
	152	269	0.149	−0.004	0.001	199.24	−3.00	196.24			
	153	270	0.156	−0.009	0.000	198.47	−3.19	195.28			
	154	271	0.141	−0.011	0.000	196.34	−3.37	192.97			
	155	272	0.149	−0.022	−0.001	195.82	−3.64	192.18			
	156	273	0.141	−0.023	0.001	193.98	−3.88	190.10			
	157	274	0.149	−0.028	−0.001	193.71	−4.08	189.63			
	158	275	0.142	−0.035	0.000	192.14	−4.40	187.74			
	159	276	0.411	0.109	0.011	192.11	−4.08	188.03			
	160	277	0.090	0.003	0.000	190.81	−4.78	186.04			
	161	278	0.082	0.002	0.000	191.02	−5.21	185.82			
	162	279	0.076	0.002	0.000	189.99	−5.70	184.30			
	163	280	0.068	0.008	0.000	190.44	−6.24	184.20			
	164	281	0.061	0.007	0.000	189.67	−6.70	182.97			
	165	282	0.068	0.008	0.000	190.34	−7.21	183.13			
	166	283	0.068	0.008	0.000	189.83	−7.43	182.40			
	167	284	0.076	0.008	0.001	190.72	−7.90	182.83			
	168	285	0.076	0.002	0.000	190.47	−7.99	182.47			
	169	286	0.076	0.002	0.000	191.58	−8.39	183.19			
	170	287	0.076	0.002	0.000	191.57	−8.24	183.33			
	171	288	0.076	−0.004	0.001	192.90	−8.63	184.26			
	172	289	0.076	−0.016	0.001	193.13	−8.58	184.55			
	173	290	0.076	−0.022	0.000	194.67	−8.80	185.87			
	174	291	0.069	−0.028	0.001	195.15	−8.62	186.52			
	175	292	0.069	−0.040	0.001	196.89	−8.82	188.07			
	176	293	0.054	−0.035	0.001	197.60	−8.93	188.67			
	177	294	−0.067	−0.022	0.000	199.55	−8.96	190.58			
	178	295	−0.052	−0.028	0.000	200.49	−7.45	193.04			
	179	296	−0.032	−0.017	0.000	202.63	−9.15	193.49			
	180	297	−0.018	−0.012	0.000	203.81	−8.65	195.15			
	181	298	−0.003	−0.006	0.000	206.15	−8.32	197.82			
	182	299	−0.003	−0.006	0.000	207.54	−7.71	199.83			
	183	300	−0.003	−0.006	0.000	210.07	−7.32	202.76			
	184	301	−0.003	0.000	0.000	211.69	−6.57	205.12			
	185	302	−0.003	−0.006	0.000	214.41	−5.45	208.96			
	186	303	−0.003	0.000	0.000	216.24	−5.27	210.96			
	187	304	−0.003	−0.006	0.000	219.14	−4.19	214.95			
	188	305	−0.003	−0.006	0.000	221.18	−3.79	217.40			
	189	306	0.424	0.028	−0.003	224.27	−4.07	220.20			
	190	307	0.424	0.028	−0.003	226.52	−3.84	222.69			
	191	308	0.424	0.022	−0.004	229.79	−3.57	226.22			
	192	309	0.424	0.022	−0.004	232.24	−3.41	228.84			
	193	310	0.424	0.022	−0.004	235.69	−3.23	232.45			
	194	311	0.424	0.022	−0.004	238.34	−3.04	235.30			
	195	312	0.416	0.013	−0.004	241.96	−2.71	239.25			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
117	196	313	0.408	0.010	−0.004	244.81	−2.41	242.40			
118	150	268	0.178	0.012	0.001	212.34	−2.47	209.87			
	151	269	0.230	0.019	0.002	211.30	−2.92	208.39			
	152	270	0.163	−0.009	0.000	208.53	−2.73	205.81			
	153	271	0.171	−0.014	0.000	207.76	−2.92	204.84			
	154	272	0.149	−0.022	−0.001	205.28	−3.00	202.28			
	155	273	0.157	−0.028	−0.001	204.75	−3.23	201.52			
	156	274	0.149	−0.034	0.000	202.56	−3.45	199.11			
	157	275	0.157	−0.040	−0.001	202.28	−3.65	198.63			
	158	276	0.150	−0.040	−0.001	200.36	−3.94	196.42			
	159	277	0.411	0.109	0.011	200.33	−4.12	196.21			
	160	278	0.411	0.116	0.012	198.69	−4.27	194.41			
	161	279	0.402	0.120	0.013	198.89	−4.32	194.57			
	162	280	0.402	0.120	0.013	197.52	−4.41	193.11			
	163	281	0.068	0.002	0.000	197.96	−5.84	192.12			
	164	282	0.053	0.001	0.000	196.85	−6.32	190.53			
	165	283	0.061	0.001	0.000	197.51	−6.87	190.64			
	166	284	0.068	0.002	0.000	196.67	−7.00	189.67			
	167	285	0.076	0.002	0.000	197.56	−7.47	190.09			
	168	286	0.076	−0.004	0.001	196.96	−7.55	189.41			
	169	287	0.082	−0.010	0.000	198.07	−7.84	190.24			
	170	288	0.076	−0.010	0.000	197.73	−7.77	189.96			
	171	289	0.082	−0.016	0.001	199.05	−8.15	190.91			
	172	290	0.076	−0.022	0.000	198.96	−8.07	190.89			
	173	291	0.076	−0.034	0.001	200.49	−8.23	192.26			
	174	292	0.069	−0.040	0.001	200.64	−8.01	192.63			
	175	293	0.069	−0.046	0.001	202.38	−8.19	194.19			
	176	294	0.062	−0.046	0.001	202.77	−8.08	194.68			
	177	295	−0.067	−0.022	0.000	204.71	−8.40	196.32			
	178	296	−0.052	−0.028	0.000	205.33	−7.03	198.30			
	179	297	−0.032	−0.017	0.000	207.48	−8.44	199.04			
	180	298	−0.018	−0.012	0.000	208.32	−7.90	200.43			
	181	299	−0.003	−0.006	0.000	210.67	−7.54	203.13			
	182	300	−0.003	0.000	0.000	211.74	−6.89	204.85			
	183	301	−0.003	0.000	0.000	214.27	−6.49	207.78			
	184	302	−0.003	0.000	0.000	215.57	−5.77	209.79			
	185	303	−0.003	−0.006	0.000	218.29	−4.63	213.66			
	186	304	−0.003	0.000	0.000	219.80	−4.47	215.33			
	187	305	0.424	0.028	−0.003	222.71	−4.93	217.79			
	188	306	0.424	0.028	−0.003	224.43	−4.65	219.78			
	189	307	0.424	0.022	−0.004	227.53	−4.40	223.13			
	190	308	0.424	0.022	−0.004	229.46	−4.19	225.27			
	191	309	0.425	0.015	−0.004	232.74	−3.93	228.80			
	192	310	0.425	0.015	−0.004	234.88	−3.74	231.13			
	193	311	0.425	0.015	−0.004	238.32	−3.61	234.71			
	194	312	0.425	0.015	−0.004	240.67	−3.42	237.25			
	195	313	0.417	0.006	−0.005	244.29	−3.05	241.24			
	196	314	0.416	0.013	−0.004	246.83	−2.87	243.96			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
119	150	269	0.119	−0.025	0.001	224.47	−1.74	222.73			
	151	270	0.275	0.028	0.003	223.09	−2.64	220.45			
	152	271	0.120	−0.031	0.000	220.28	−2.16	218.12			
	153	272	0.134	−0.030	0.000	219.15	−2.51	216.64			
	154	273	0.120	−0.037	0.001	216.63	−2.64	213.99			
	155	274	0.120	−0.043	0.000	215.76	−2.79	212.97			
	156	275	0.120	−0.043	0.000	213.53	−3.17	210.36			
	157	276	0.128	−0.042	0.000	212.91	−3.51	209.40			
	158	277	0.120	−0.043	0.000	210.96	−3.78	207.18			
	159	278	0.411	0.109	0.011	210.58	−4.32	206.26			
	160	279	0.403	0.113	0.012	208.90	−4.39	204.51			
	161	280	0.403	0.113	0.012	208.77	−4.60	204.16			
	162	281	0.402	0.120	0.013	207.36	−4.51	202.84			
	163	282	0.402	0.120	0.013	207.46	−4.68	202.78			
	164	283	0.068	−0.016	0.001	206.31	−6.17	200.14			
	165	284	0.068	−0.016	0.001	206.64	−6.72	199.92			
	166	285	0.076	−0.022	0.000	205.76	−6.81	198.95			
	167	286	0.076	−0.016	0.001	206.32	−7.40	198.92			
	168	287	0.083	−0.022	0.001	205.69	−7.35	198.34			
	169	288	0.083	−0.027	0.001	206.47	−7.60	198.87			
	170	289	0.083	−0.022	0.001	206.09	−7.68	198.41			
	171	290	0.083	−0.027	0.001	207.09	−8.05	199.03			
	172	291	0.076	−0.034	0.001	206.96	−7.93	199.02			
	173	292	0.076	−0.040	0.001	208.17	−8.10	200.06			
	174	293	0.077	−0.046	0.001	208.28	−7.88	200.40			
	175	294	0.069	−0.052	0.001	209.70	−8.01	201.69			
	176	295	0.062	−0.052	0.000	210.05	−7.76	202.29			
	177	296	0.054	−0.052	0.001	211.67	−8.33	203.34			
	178	297	−0.052	−0.028	0.000	212.26	−7.88	204.38			
	179	298	−0.032	−0.017	0.000	214.08	−8.29	205.79			
	180	299	−0.018	−0.012	0.000	214.90	−7.73	207.17			
	181	300	−0.003	−0.006	0.000	216.92	−7.31	209.61			
	182	301	−0.003	−0.006	0.000	217.96	−6.67	211.29			
	183	302	−0.003	−0.006	0.000	220.18	−6.25	213.93			
	184	303	−0.003	0.000	0.000	221.44	−5.47	215.97			
	185	304	0.424	0.028	−0.003	223.85	−5.88	217.97			
	186	305	0.424	0.028	−0.003	225.33	−5.60	219.73			
	187	306	0.424	0.022	−0.004	227.93	−5.35	222.58			
	188	307	0.424	0.022	−0.004	229.63	−5.10	224.53			
	189	308	0.425	0.015	−0.004	232.41	−4.87	227.54			
	190	309	0.425	0.015	−0.004	234.32	−4.64	229.67			
	191	310	0.425	0.015	−0.004	237.28	−4.45	232.83			
	192	311	0.425	0.015	−0.004	239.39	−4.26	235.14			
	193	312	0.425	0.015	−0.004	242.54	−4.06	238.48			
	194	313	0.425	0.015	−0.004	244.85	−3.85	241.00			
	195	314	0.416	0.013	−0.004	248.17	−3.48	244.69			
	196	315	0.416	0.013	−0.004	250.69	−3.30	247.39			
120	150	270	0.112	−0.038	0.001	234.85	−0.82	234.03			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
120	151	271	−0.108	0.010	0.000	233.45	−0.21	233.25			
	152	272	0.112	−0.043	0.001	230.29	−1.23	229.07			
	153	273	0.215	0.004	0.001	229.16	−2.80	226.36			
	154	274	0.112	−0.043	0.001	226.29	−1.78	224.50			
	155	275	0.120	−0.043	0.000	225.41	−2.14	223.27			
	156	276	0.113	−0.049	0.000	222.82	−2.36	220.47			
	157	277	0.128	−0.048	0.000	222.20	−2.85	219.34			
	158	278	0.120	−0.049	0.000	219.90	−3.09	216.81			
	159	279	0.411	0.103	0.009	219.52	−4.43	215.08			
	160	280	0.411	0.109	0.011	217.49	−4.51	212.98			
	161	281	0.403	0.113	0.012	217.35	−4.54	212.81			
	162	282	0.402	0.120	0.013	215.60	−4.46	211.14			
	163	283	0.402	0.120	0.013	215.70	−4.63	211.07			
	164	284	0.068	−0.022	0.001	214.21	−5.51	208.70			
	165	285	0.068	−0.022	0.001	214.54	−6.05	208.49			
	166	286	0.076	−0.028	0.001	213.32	−6.07	207.24			
	167	287	0.083	−0.027	0.001	213.87	−6.60	207.27			
	168	288	0.083	−0.034	0.002	212.91	−6.54	206.36			
	169	289	0.083	−0.034	0.002	213.68	−6.82	206.87			
	170	290	0.083	−0.034	0.002	212.97	−6.90	206.07			
	171	291	0.083	−0.034	0.002	213.97	−7.33	206.64			
	172	292	0.077	−0.046	0.001	213.51	−7.13	206.37			
	173	293	0.077	−0.046	0.001	214.71	−7.32	207.40			
	174	294	0.077	−0.052	0.001	214.50	−7.08	207.42			
	175	295	0.077	−0.057	0.000	215.92	−7.24	208.68			
	176	296	0.069	−0.058	0.000	215.94	−6.90	209.04			
	177	297	0.054	−0.052	0.001	217.56	−7.36	210.21			
	178	298	−0.052	−0.022	0.000	217.82	−7.28	210.54			
	179	299	−0.024	−0.012	0.000	219.65	−7.47	212.18			
	180	300	−0.011	−0.006	0.000	220.14	−6.82	213.32			
	181	301	−0.003	−0.006	0.000	222.17	−6.52	215.65			
	182	302	0.415	0.026	−0.003	222.89	−6.45	216.43			
	183	303	0.415	0.026	−0.003	225.11	−6.42	218.68			
	184	304	0.415	0.026	−0.003	226.05	−6.13	219.92			
	185	305	0.424	0.028	−0.003	228.46	−6.02	222.45			
	186	306	0.424	0.022	−0.004	229.63	−5.74	223.89			
	187	307	0.424	0.022	−0.004	232.23	−5.52	226.70			
	188	308	0.425	0.015	−0.004	233.61	−5.26	228.34			
	189	309	0.425	0.015	−0.004	236.39	−5.08	231.32			
	190	310	0.425	0.015	−0.004	237.98	−4.86	233.13			
	191	311	0.425	0.009	−0.004	240.95	−4.69	236.26			
	192	312	0.425	0.015	−0.004	242.75	−4.46	238.29			
	193	313	0.425	0.009	−0.004	245.90	−4.29	241.61			
	194	314	0.416	0.013	−0.004	247.91	−3.91	244.00			
	195	315	0.417	0.006	−0.005	251.23	−3.69	247.54			
	196	316	0.416	0.013	−0.004	253.44	−3.49	249.95			
121	150	271	−0.003	0.006	0.000	247.71	0.54	248.25			
	151	272	−0.003	0.012	0.000	245.96	0.60	246.57			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
121	152	273	−0.003	0.006	0.000	242.76	0.04	242.81			
	153	274	0.222	0.018	0.002	241.28	−2.74	238.55			
	154	275	0.163	−0.021	−0.001	238.38	−2.29	236.09			
	155	276	0.157	−0.028	−0.001	237.15	−2.37	234.79			
	156	277	0.149	−0.034	0.000	234.53	−2.48	232.05			
	157	278	0.150	−0.040	−0.001	233.56	−2.67	230.90			
	158	279	0.142	−0.041	−0.001	231.23	−2.88	228.35			
	159	280	0.411	0.096	0.007	230.51	−4.56	225.95			
	160	281	0.403	0.106	0.011	228.44	−4.41	224.04			
	161	282	0.403	0.113	0.012	227.97	−4.47	223.49			
	162	283	0.403	0.113	0.012	226.18	−4.51	221.67			
	163	284	0.403	0.113	0.012	225.94	−4.65	221.29			
	164	285	0.403	0.113	0.012	224.42	−4.60	219.82			
	165	286	0.403	0.113	0.012	224.41	−4.41	220.00			
	166	287	−0.095	0.021	0.000	223.15	−6.14	217.01			
	167	288	−0.101	0.021	0.000	223.38	−6.53	216.85			
	168	289	−0.108	0.016	0.000	222.38	−6.74	215.64			
	169	290	−0.116	0.016	−0.001	222.83	−7.24	215.59			
	170	291	−0.116	0.022	0.000	222.08	−7.34	214.74			
	171	292	−0.123	0.023	0.000	222.75	−7.63	215.12			
	172	293	−0.123	0.029	0.000	222.25	−7.52	214.74			
	173	294	0.077	−0.046	0.001	223.14	−7.18	215.95			
	174	295	0.069	−0.046	0.001	222.88	−6.92	215.97			
	175	296	0.069	−0.052	0.001	223.98	−7.02	216.96			
	176	297	0.062	−0.058	0.000	223.97	−6.72	217.25			
	177	298	−0.067	−0.016	0.000	225.28	−7.34	217.93			
	178	299	−0.046	−0.017	0.000	225.50	−7.10	218.40			
	179	300	0.407	0.030	−0.003	227.01	−6.82	220.18			
	180	301	0.415	0.026	−0.003	227.47	−6.81	220.65			
	181	302	0.415	0.026	−0.003	229.18	−7.01	222.17			
	182	303	0.415	0.026	−0.003	229.87	−6.78	223.08			
	183	304	0.415	0.026	−0.003	231.77	−6.76	225.01			
	184	305	0.415	0.026	−0.003	232.68	−6.48	226.20			
	185	306	0.424	0.022	−0.004	234.79	−6.36	228.42			
	186	307	0.424	0.022	−0.004	235.92	−6.11	229.80			
	187	308	0.425	0.015	−0.004	238.21	−5.92	232.29			
	188	309	0.425	0.015	−0.004	239.56	−5.68	233.88			
	189	310	0.425	0.015	−0.004	242.04	−5.48	236.56			
	190	311	0.425	0.015	−0.004	243.60	−5.25	238.34			
	191	312	0.425	0.009	−0.004	246.26	−5.10	241.16			
	192	313	0.425	0.015	−0.004	248.03	−4.86	243.18			
	193	314	0.425	0.009	−0.004	250.87	−4.69	246.19			
	194	315	0.416	0.013	−0.004	252.85	−4.29	248.56			
	195	316	0.417	0.006	−0.005	255.87	−4.07	251.80			
	196	317	0.416	0.013	−0.004	258.05	−3.86	254.20			
122	150	272	−0.003	0.000	0.000	258.79	1.16	259.96			
	151	273	−0.003	0.006	0.000	257.04	1.24	258.27			
	152	274	−0.003	0.000	0.000	253.48	0.70	254.18			

Z	N	A	β_2	β_4	β_6	$E^{\mathrm{sph}}_{\mathrm{macr}}$ (MeV)	Micr. (MeV)	M_{th} (MeV)	M_{exp} (MeV)	Discr. (MeV)	σ_{exp} (MeV)
122	153	275	−0.003	0.006	0.000	251.99	0.61	252.60			
	154	276	0.222	0.012	0.001	248.74	−2.80	245.93			
	155	277	0.200	−0.004	0.000	247.50	−2.69	244.81			
	156	278	0.164	−0.027	−0.001	244.54	−2.37	242.17			
	157	279	0.164	−0.033	−0.001	243.56	−2.53	241.03			
	158	280	0.164	−0.039	−0.002	240.88	−2.85	238.03			
	159	281	0.420	0.093	0.007	240.15	−4.85	235.29			
	160	282	0.411	0.103	0.009	237.74	−4.67	233.07			
	161	283	0.403	0.113	0.012	237.26	−4.56	232.70			
	162	284	0.403	0.113	0.012	235.13	−4.57	230.56			
	163	285	0.403	0.113	0.012	234.89	−4.70	230.19			
	164	286	0.403	0.113	0.012	233.03	−4.63	228.40			
	165	287	0.403	0.113	0.012	233.02	−4.43	228.59			
	166	288	0.403	0.100	0.009	231.42	−4.83	226.60			
	167	289	−0.123	0.023	0.000	231.64	−6.04	225.60			
	168	290	−0.129	0.018	−0.001	230.31	−6.21	224.10			
	169	291	−0.136	0.018	−0.001	230.75	−6.67	224.09			
	170	292	−0.136	0.024	−0.001	229.68	−6.71	222.96			
	171	293	−0.143	0.025	−0.001	230.34	−6.92	223.42			
	172	294	−0.143	0.025	−0.001	229.51	−6.80	222.72			
	173	295	0.076	−0.040	0.001	230.40	−6.75	223.65			
	174	296	0.077	−0.046	0.001	229.82	−6.27	223.55			
	175	297	0.069	−0.052	0.001	230.91	−6.31	224.60			
	176	298	0.407	0.036	−0.003	230.58	−6.20	224.38			
	177	299	0.407	0.036	−0.003	231.88	−6.46	225.42			
	178	300	0.407	0.030	−0.003	231.78	−6.61	225.17			
	179	301	0.415	0.026	−0.003	233.29	−6.95	226.34			
	180	302	0.415	0.026	−0.003	233.43	−6.91	226.52			
	181	303	0.415	0.026	−0.003	235.14	−7.10	228.04			
	182	304	0.416	0.019	−0.004	235.51	−6.85	228.65			
	183	305	0.415	0.026	−0.003	237.41	−6.85	230.56			
	184	306	0.416	0.019	−0.004	238.01	−6.57	231.43			
	185	307	0.424	0.022	−0.004	240.11	−6.47	233.64			
	186	308	0.425	0.015	−0.004	240.93	−6.23	234.69			
	187	309	0.425	0.015	−0.004	243.22	−6.05	237.17			
	188	310	0.425	0.015	−0.004	244.25	−5.80	238.45			
	189	311	0.425	0.009	−0.004	246.74	−5.66	241.08			

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