779

International Atomic Energy Agency

INDC(CCP)-93/N

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Translated by the IAEA
May 1976

IAEA NUCLEAR DATA SECTION, KÄRNTNER RING 11, A-1010 VIENNA

Reproduced by the IAEA in Austria
July 1976
76-4833

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76-3703
Translated from Russian

Submitted for inclusion in Materialy
26 Soveshchaniya po yadernoj spektroskopii
g. Baku (Proceedings of the 26th Conference
on Nuclear Spectroscopy, Baku)

THE 0^+ STATES AND ELECTRIC MONOPOLE TRANSITIONS IN EVEN-EVEN ATOMIC NUCLEI

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ABSTRACT

Experimental data on energies of the 0^+ excited states in even-even nuclei over the whole periodic table have been collected and systematized. Experimental values of the probabilities of the E0 transitions between levels with both 0^+ and non-zero spins are presented. Measurements of the dimensionless ratio

$$X\left(\frac{B(E0, I_i \to I_f)}{B(E2, I_i \to I_f)}\right)$$

are given. The penetration parameters for competitive M1 transitions (in the case of transitions between the levels with non-zero spins) are provided. Experimental data on the probabilities of the Coulomb excitation of the levels considered are reported. The properties of the 0^+ excited state are discussed.

INTRODUCTION

Many experimental and theoretical studies have been carried out on states of the 0^+ type in atomic nuclei. The position of excited 0^+ states and the methods for their de-excitation, as shown in several studies [1-7], are of critical importance in determining the applicability of the different nuclear models. There is now undoubtedly a growing interest in the study of the nature of these levels. The 0^+ excitations in the reactions of single-nucleon and two-nucleon transfers are the subject of particularly intensive study, and reactions of the type (p,t), (t,p), (α,t), (p,d) etc. provide valuable data for studies on the nature of levels. 0^+ excitations have been discovered in most known even-even atomic nuclei; in several deformed and transition nuclei two, and sometimes even five, 0^+ states have been found below the energy gap 2Δ. Data on the energies of electric monopole excitations have become much more complete in recent years. At present, there is no unified theoretical description of the various 0^+ excitations in nuclei. In particular, many difficulties arise in describing the 0^+ excitations near and above the energy gap.

A considerable number of studies have been devoted to the characteristics of electric monopole transitions. This is understandable since work of this kind provides substantial information about the shape of the nucleus and the details of its structure. It is known that E0 transitions are purely a penetration effect. They are different from zero only where the transition is accompanied by changes in the surface of the nucleus, i.e. in calculating the probability of such transitions an adiabatic approximation cannot be used. In nuclear models where the form of the nucleus is determined, E0 transitions are strictly forbidden. Such transitions may occur between nuclear states having identical spin and parity. If $I \neq 0$, the E0 component is usually mixed with the M1 and M2 components. In investigating transitions of the type $I \rightarrow I$ for $I \neq 0$ it is not the absolute value of the monopole component which is important but the data on the structure of nuclear levels which can be obtained from a study of the matrix elements of monopole transition. However, the experimental data on the probabilities of electric monopole transitions have long ceased to be sufficient.

The experimental and theoretical data on the energies of excited 0^+ levels and on the characteristics of electric monopole transitions were systematized in Refs [8-10]. References [8-9] contain data on nuclei of the deformed region, while only the probabilities of E0 transitions were considered in Ref. [10]. The experimental data on all even-even nuclei have not yet been fully systematized. In the present study an attempt has been made to collect (as fully as possible) and systematize the experimental data on monopole excitations ($I^\pi = 0^+$) and the characteristics of electric monopole transitions (E0) for all even-even atomic nuclei (from studies published up to 1 January 1976; the data given in Refs [8-10] are included in the present survey).

1. SYSTEMATIZATION OF THE EXPERIMENTAL DATA

The characteristics of the 0^+ excitations of even-even nuclei are given in Table 1, which shows the energies of the 0^+ states and the probabilities of Coulomb excitation of the levels from which E0 transitions were observed. For the energy of the 0^+ levels, the studies in which the level was first discovered are usually cited, together with the most reliable recent data. In the case of the probability of E2 transitions, only the latest results are given; these data are given more fully in Refs [11-12]. The table also gives the values of $q^2 = W_e(E0)/W_e(E2)$, the ratio between the probabilities of E0 and E2 conversion transitions. If the ratio of E0 of K conversion electrons and the E2 component of the gamma transition has been measured, the table gives the value of $\mu_k = W_k(E0)/W_\gamma(E2)$ denoted by IK(E0)/IG(E2). It should be mentioned that the value of q^2 is generally obtained from measurements of the conversion coefficients, while from measurements of the angular correlation of conversion electrons we can obtain the value of q which determines the ratio of the amplitudes of the E0 and E2 components of conversion electrons. Since measurements of the e_γ-angular correlation enable us to determine not only the value but also the sign of q, the table also gives the values of q with the sign in cases where they have been determined. From the experimental value of q we can calculate the value of the nuclear matrix element of E0 transition:

$$\rho\,(E0) = q \sqrt{\frac{\alpha(E2)\; W_\gamma(E2)}{\Omega(Z,k)}} \qquad (1)$$

In a mixed E0 + M1 + E2 transition the M1 process of conversion may depend on the penetration effect. The table gives the values of the parameter λ which characterize the penetration effect in the M1 component. Lastly, the table contains the values of the dimensionless parameter X introduced by Rasmussen [13]:

$$X_\circ = \frac{B(E0,\, 0_k^+ \to 0_1^+)}{B(E2,\, 0_k^+ \to 2_1^+)} = 2{,}54 . 10^9\, A^{4/3} \cdot \frac{E^5_{\gamma\,MeV}}{\Omega(Z,k)} \cdot q^2 \cdot \alpha(E2) \quad , \qquad (2)$$

$B(E0,\, 0_k^+ \to 0_1^+) = e^2 \rho^2 R_o^4$, R_o is the radius of the nucleus, 0_k^+ is a level of type 0^+ with number K, 0_1^+ is the ground state of the nucleus and 2_1^+ the first excited state with spin 2^+.

For transitions between levels of non-zero spin, the table gives the ratios

$$X_2 = \frac{B(E0,\ I_k^+ \to I_1^+)}{B(E2,\ I_k^+ \to I_1^+)}\quad, \tag{3}$$

Here the spins of the K-th and 1st levels are equal. Both these ratios are denoted by X in the table. If the investigators have determined the ratios of the probabilities of other E0 and E2 transitions, these cases are mentioned specially in the table. For example, if the ratio B(E0)/B(E2, 22 → 01) is given, this means the ratio between the probability of E0 transition from the 2^+ level under consideration to the level of the main rotational band 2^+ and the value of B(E2) from the second excited state of type 2^+ to the ground state of the nucleus under study. In some studies the ratio of B(E0) to the sum of the normalized probabilities of E2 transitions from the level under consideration to the levels of the main rotational band is determined. Such ratios are indicated in the table as B(E0)/SB(E2). Lastly, the ratios of the normalized probabilities of E0 and E2 transitions are sometimes multiplied by the ratios of the corresponding Clebsch-Gordon coefficients. The values of X thus corrected for transitions between the different terms of the rotational band are equal to each other. Such values are noted in the remarks on the table.

The table contains 11 columns denoting the following:

1. Atomic number of the nucleus Z;
2. Symbol of the isotope under study;
3. Mass number of the isotope A;
4. Level energy, in MeV;
5. Quantum characteristics of the level I^π;
6. Energy of the particular transition, in MeV;
7. Multipolarity of transition;
8. Quantity to be determined:

   B(E2) or B(E2)↑, denoted by BE2U
   IK(E0)/I G(E2) = μ_k
   QSQ, which means q^2
   Q = q

RHO, which means ϱ(E0)
LAMBDA- λ-parameter of penetration of the M1 component
E - a quantity equal to $\sqrt{X}$ and coinciding in sign with q
X - or any ratio referred to above;

9. Values of the quantity in column 7, here B(E2) are given in e^2barn^2, the figures in brackets denoting the order of magnitude. For example, 1.78(-2) means 1.78 x 10^{-2}. Sometimes we give the limits of the quantity measured, i.e. GT, LT or GE, LE (which denote $>$, $<$ or $\geqslant$, $\leqslant$);

10. Error of the quantity determined; if the + error and the - error are different, both values are given;

11. Study in which the particular quantity was measured.

2. DISCUSSION OF EXPERIMENTAL DATA

2.1. Energy characteristics of the 0^+ levels

It will be seen from the table that a large part of the experimental material relates to the energy characteristics of the excited 0^+ states. The probabilities of de-excitation of the 0^+ levels have been investigated much less thoroughly. Figure 1 gives the energy values known so far of the first excited 0^+ levels in even-even nuclei; the $E(0_1^+)$ values corresponding to isotopes with Z = const. are connected by lines. The same figure also shows the deformation parameter β_0 as a function of A for nuclei with $150 < A < 190$ and $A > 228$ [14]. Figure 2 shows the ratio of the energies of the first two excited 0^+ states. For most isotopes the value of $E(0_2^+)/E(0_1^+)$ lies within 1.1-1.6, i.e. at least for these nuclei, the second 0^+ level is not a two-phonon state of β- and γ-vibrations. In many nuclei (^{150}Sm, ^{154}Sm, ^{156}Gd, ^{160}Gd, ^{168}Yb, ^{170}Yb, ^{174}Yb, ^{176}Hf, ^{178}Hf, ^{202}Hg and ^{246}Cm) the energies of the first two excited 0^+ states differ altogether by $\approx$ 100 keV, i.e. the ratio $E(0_2^+)/E(0_1^+) \approx 1.03$-$1.15$ although, as will be shown later, the properties of these close 0^+ levels are quite different. In the case of nuclei with $A > 50$, Fig. 1 illustrates the correlation between $E(0_1^+)$ and A (see, for example, the Se, Kr, Sr, Ru, Cd or Nd, Sm and Gd isotopes); for deformed nuclei it also illustrates the correlation between the deformation parameter β_0 and the position of the first 0^+ level. The correlation with β_0 is demonstrated more graphically in Fig. 3, which gives the experimental values of the energies of the 0^+ excitations ($E(0^+) < 2$ MeV) for the region of transition nuclei and deformed nuclei with $140<A<190$. It also indicates the theoretical values of the energy of the gap $2\Delta_N$ and $2\Delta_Z$ (for neutrons and protons, respectively [15]). In most cases, the two excited 0^+ levels undoubtedly lie below the gap, and in many nuclei the third level also has the energy 2Δ. In several nuclei (for example, ^{170}Yb, ^{172}Yb, ^{174}Yb, ^{178}Hf, ^{184}W, ^{186}Os and ^{188}Os) even a fourth, and sometimes a fifth, excited 0^+ state with energy below 2 MeV have been discovered. It cannot be affirmed with confidence that these levels, too, are below the gap energy because of the uncertainty of the theoretical values of Δ. It is however clear that their energy $\leqslant 2\Delta$.

2.2. Probabilities of electric monopole transitions

Experimental data on the nuclear matrix elements of E0 transitions are given in Fig. 4. It will be seen that measurements of $\rho(E0)$ are few and, in many cases, the errors are large. Most experiments give absolute values of $\rho(E0)$ and its sign is determined only in experiments on angular correlations of conversion electrons but such studies are extremely few (see, for example, the $2^+ \to 2^+$ transitions of ^{160}Dy, ^{190}Os, ^{192}Pt or ^{194}Pt). All the experimental values of $\rho(E0)$ are lower than the single-particle estimate of $\rho(E0) = 1$ [16]. For the lightest nuclei with $A < 30$, the values of $\rho(E0)$ vary within 0.6–0.3. In the region of nuclei of A = 30–150, $\rho(E0)$ is almost constant and equals ≈ 0.1 (the only exceptions being ^{72}Se and some transitions in ^{114}Cd). The highest values of $\rho(E0) \approx 0.2$–0.3 were obtained for the first excited 0^+ states, which are similar in their properties to the ß-vibrational states.

In the case of the isotopes ^{152}Sm, ^{154}Gd, ^{174}Hf, ^{176}Hf etc., the values of $\rho(E0)$ have been determined for transitions between all terms of the ß vibrational and main rotational bands with spins of up to $I^{\pi} = 6^+, 8^+$. It should be mentioned that in determining $\rho(E0, 4_\beta \to 4_g)$, $\rho(E0, 6_\beta \to 6_g)$ in the isotopes ^{152}Sm and ^{154}Gd no account was taken of the effect of band mixing. It has been shown in studies that, within experimental error, the value of $\rho(E0)$ does not depend on spin. If $\rho(E0)$ depended on spin, the dependence could be written in the following form

$$\rho\,(E0, I_\beta \to I_g) = \rho_o + \Delta\rho\,(I + 1). \qquad (4)$$

Substituting into this expression the values of $\rho(E0)$ for transitions with $I \geq 2$, the values obtained for ^{154}Gd were $\rho_o = 0.29 \pm 0.03$ and $\Delta\rho = -0.001 \pm 0.003$ and for ^{152}Sm $\rho_o = 0.255 \pm 0.025$ and $\Delta\rho = 0.0005 \pm 0.0022$; the value of ρ_o is in excellent agreement with $\overline{\rho(E0)}$. No appreciable variation of ρ from I^{π}_{β} was observed for the isotopes ^{174}Hf and ^{176}Hf (see Table 1).

E0 transitions between the levels of the γ-vibrational and main rotational bands are forbidden by the selection rules for K. These transitions can occur only as a result of mixing of the wave functions of the levels, and the degree of the purity of the states can be judged from the value of $\rho(E0)$. In practically all experimentally observed cases, the values of $\rho(E0,\ 2^+_{\gamma} \rightarrow 2^+_g)$ are lower than those of $\rho(E0,\ 2^+_{\beta} \rightarrow 2^+_g)$ by a factor of 5–10 (see Table 1, for example, ^{154}Gd, ^{160}Dy, ^{170}Yb, ^{182}W, etc.).

Lifetimes have not been measured for most of the known excited 0^+ levels and the value of the nuclear matrix element of the E0 transition cannot be determined. It is however possible to determine the experimental value of

$$X = \frac{e^2 \rho^2 R^4}{B(E2)} \tag{5}$$

the ratio of the normalized probabilities of E0 and E2 transitions which de-excite the states under study to the levels of the main rotational band. Apart from the values

$$X_o = \frac{B(E0,\ 0^+_i \rightarrow 0^+_1)}{B(E2,\ 0^+_i \rightarrow 2^+_1)}\ , \tag{6}$$

similar ratios for the rotational levels are determined experimentally, namely

$$X_k = \frac{B(E0,\ I^+_i \rightarrow I^+_1)}{B(E2,\ I^+_i \rightarrow I^+_1)}\ , \tag{7}$$

where $I^+_i = I^+_1 = 2^+,\ 4^+$ etc. and $k = 2,\ 4$, etc. If, for example, the value of $B(E2,\ 2^+_i \rightarrow 2^+_1)$ is not known, the following value is determined

$$X'_2 = \frac{B(E0,\ 2^+_i \rightarrow 2^+_1)}{B(E2,\ 2^+_i \rightarrow 0^+_1)}\ . \tag{8}$$

The values of X_k, multiplied by the appropriate ratios of the Clebsch-Gordon coefficients if the internal structure of the levels of one rotational band are identical, will be equal to each other. In particular, for transitions from the band $K^{\pi} = 0^+$ to the main rotational band the ratios $S = X_2/3.5\,X_0$ and $S' = X_2/5X_0$ should, in this case, be equal to one.

The values of the dimensionless ratio X have been measured for a very large number of levels. In the region of $A < 150$ the value of X has been determined only in eight nuclei, while all the other measurements relate to the region of transition and strongly-deformed nuclei with $A > 150$. The experimental values of X vary within very wide limits from $\approx 10^{-5}$ (for example, ^{192}Pt) to $\approx 10^{+2}$(^{130}Xe). In most nuclei the value of X has been determined for levels 0^+, 2^+ or only for $I^{\pi} = 0^+$. In ^{152}Sm, ^{152}Gd, ^{158}Dy, ^{172}Hf, ^{178}Hf and ^{182}W nuclei the ratios of the normalized probabilities of E0 and E2 transitions have been determined for transitions from levels up to a value of $I^{\pi} = 4^+$, in ^{156}Dy and ^{174}Hf nuclei up to 6^+ and in ^{154}Gd and ^{176}Hf nuclei up to 10^+.

For transitions in ^{174}Hf (Ref. 73GO0353) the values given for X_k have been multiplied by the appropriate ratios of the Clebsch-Gordon coefficients:

$$X_k = \frac{B(E0,\, I_i \to I_f)}{B(E2,\, I_i \to I_{f+2})} \cdot \frac{< I_i\; 2K_i\, K_f - K_i \;/\; I_f + 2,\; K_f >^2}{< I_i\; 0K_i\, K_f - K_i \;/\; I_f,\;\; K_f \;\; >^2} \,. \tag{9}$$

The values of X_k for transitions from levels 1198.0(0^+), 1276.5(2^+) and 1451.4(4^+) are equal to each other within experimental error (see Table 1), the average weighted value being $\overline{X} = 0.22 \pm 0.05$. Similarly, for transitions from levels 1433.9(0^+), 1496.5(2^+) and 1635.8(4^+) the average weighted value is $\overline{X} = 0.15 \pm 0.06$. Quite obviously, each group of three levels forms a rotational band.

The ratios X for close-lying 0^+ levels with an energy difference of 100-200 keV (see, for example, the isotopes ^{156}Gd, ^{168}Yb, ^{170}Yb, ^{176}Hf and ^{178}Hf) differ by a factor of 3-40. As a rule, such closely situated 0^+ levels are not excited in the same reaction, i.e. these levels are different in nature and there is little interaction between them.

The values of X have been measured for some, at least two, 2^+ levels in ^{152}Gd, ^{162}Er, ^{170}Yb, ^{176}Hf, ^{178}Hf, ^{182}W, ^{188}Pt, ^{190}Pt, ^{192}Pt and ^{194}Pt nuclei. For deformed nuclei, one of these states can be the first excited level of the ß-band and the other the level of γ-vibrations, and the values of X in this case should be substantially different. For the isotopes ^{152}Gd, ^{176}Hf and ^{178}Hf, however, even if they differ, they do so by a factor of not more than 2, which is an indication of strong mixing of the states. We should note that in determining the values of X for $2^+ \to 2^+$ transitions with $\Delta K = 2$ it is necessary to take into account the contribution of the M1-component which, in spite of forbiddenness of the quantum number K, is considerable (for example, ^{178}Hf). For W and Pt isotopes, the values of X(E0/E2) for transitions from different 2^+ levels differ by a factor of 10-1000, i.e. mixing of states is slight in these isotopes.

3. THE NATURE OF MONOPOLE EXCITATIONS

Low-lying monopole excitations have been investigated in many theoretical studies. In phenomenological models, the first excited 0^+ levels of deformed nuclei are interpreted as collective 0^+ levels of ß-vibrations. In the vibrational model, one such state is possible, and is associated with the main rotational band through strong E0 and E2 transitions; the values of X are determined by the equilibrium-deformation parameter β_o, $X = 4\beta_o^2$ [17] and the typical values of $X \approx 0.3$–0.4. The nuclear matrix element of E0 transition $\rho(E0) \approx 0.5$. In the model of non-axial nuclei [18] two states of collective vibrations with $K^\pi = 0^+$ are possible - levels 0^+_β and 0^+_γ. For the level of ß-vibrations the values of $X \approx 0.3$–0.4 and for the level of γ-vibrations X(E0/**E2**) is higher by a factor of 10-100.

In microscopic models, 0^+ excitations are regarded as internal excitations of the system of nucleons, which interact with each other through the effect of residual forces. With models of this kind it is possible in theory to give a uniform description of both collective and single-particle excitations in nuclei. In the well-known "pairing + quadrupole - quadrupole" interaction model [19] the ß vibrational states of deformed nuclei were studied [20-24]. However, such a model gives only one 0^+ state with an energy lower than 2Δ so that other 0^+ levels lying below the gap are "superfluous" from the standpoint of this model. To describe such "superfluous zeros", components of residual interaction other than quadrupole-quadrupole interaction have been introduced in a number of studies. Pyatov and associates [5, 25-27] have introduced the spin-quadrupole interaction. In Ref. [6] account was taken of the quadrupole-quadrupole interaction in the particle-hole channel and of the pairing interaction in the particle-particle channel modified on the basis of the condition of the gradient invariance of the theory [28, 29]. In addition to the quadrupole-quadrupole interaction, Ref. [7] also takes into consideration the monopole-monopole interaction. Introduction of one further interaction results in the appearance of only one other 0^+ excitation below the gap energy. Other types of 0^+ excitation within the framework of microscopic models should have an energy $> 2\Delta$.

Let us now consider the properties of the 0^+ excitations discussed in the microscopic model.

1. Pairing vibrations. They are due to pairing interactions and represent the superposition of two-quasi-particle states, other than neutron and proton states, both quasi-particles of one pair being at one level. The contributions of the different states to the sums, the squares of which determine the normalized probabilities of transitions, are incoherent and the values of B(E0) and B(E2) are generally small. Since the matrix elements of E0 transitions from the levels of pairing vibrations are much greater than those of the parallel E2 transitions, the quantity X can in general assume high values, $X >> 1$. Pairing vibrations should generally be observed above the energy gap.

2. Unlike the T-even states, the coherent fluctuations of pairing, which were studied by Belyaev [28-29], have contributions of the same sign from the particle and hole excitations to the T-odd phonon. These states can also be below the gap and in their case, the quantity X can have very high values, $X >> 1$.

3. The ß vibrations due to quadrupole interactions lie below the energy gap and have high values of B(E2). Owing to the coherence of the contributions of the individual two-quasi-particle components (the quasi-particles of one pair at different levels) to the sums determining B(E2) and the incoherence of the contributions to the sums for B(E0), we can expect $X < 1$. However, because of interference of the phonons of ß vibrations and pairing vibrations for states close to the energy gap, X may increase noticeably.

4. Spin-quadrupole interactions lead to the appearance of 0^+ levels below 2Δ. The main contribution to B(E0) comes from the two-quasi-particle states (the quasi-particles of one pair always at different orbitals) in which the quasi-particles are at levels with $\Delta N = \pm 2$. For states with quasi-particles at different levels of one shell ($\Delta N = 0$) B(E0) = 0. All states contribute to B(E2) and therefore $X << 1$ for 0^+ levels of this type. Coupling of β vibrations with spin-quadrupole interaction results in a decrease in the value of X.

Most of the first excited states of deformed nuclei (for example, ^{152}Sm, ^{154}Sm, ^{156}Sm, ^{154}Gd, ^{156}Gd, ^{158}Gd, ^{156}Dy, ^{158}Dy, ^{160}Dy, ^{162}Er, ^{164}Er, ^{168}Yb, ^{174}Hf, ^{176}Hf, ^{178}Hf, etc.) can be related to states similar in their properties to the β vibrational state. They appear during Coulomb excitation of nuclei or in the reactions of inelastic scattering of charged particles of type (d,d'), (α,α') etc. The experimental values of ρ(E0) and X(E0/E2) for these levels are generally lower by several factors than those estimated by the phenomenological models. Agreement with a phenomenological model is observed only in nuclei of the transuranic region. Agreement with the microscopic models is better although the energy values and also the values of ρ (E0) and X(E0/E2) indicate a strong mixing of β vibrations with rotational motion. As the energy of β vibrations increases, their coupling with pairing vibrations is enhanced. The mixing effects lead to pronounced changes in the values of X [5].

Most experimental values of $X < 1$ or $X << 1$ (see Table 1). In a number of nuclei, however, there were 0^+ states whose de-excitation to the levels of the main rotational band occurred through E0 transitions with large B(E0) and E2 transitions with much smaller B(E2). The ratios between the normalized probabilities of E0 and E2 transitions for such 0^+ levels are high, $X(E0/E2) > 10$:

52 ± 15 (2.001 MeV, ^{106}Pd);

6 ± 3 and 100 ± 50 (1.794 and 2.016 MeV, ^{130}Xe);

5.56 ± 1.84 (2.185 MeV, ^{164}Er);

19 ± 4 and 6.0 ± 0.7 (1.296 and 1.336 MeV, ^{172}Hf);

8.3 ± 1.0 (1.293 MeV, ^{176}Hf); and

5.6 ± 0.3 (2.086 MeV, ^{194}Pt). (10)

It will be seen that in all cases the energy localization of the 0^+ states is in the gap region. On the basis of their characteristics, these levels can be interpreted as a special case of pairing vibrations which are odd in relation to the time operator, i.e. the levels of coherent fluctuations of pairing [28, 29]; it is also not impossible that they may be due to the interaction of pairing vibrations with β vibrations.

The levels lying in the gap region and having values of $X \approx 1$ can be identified in a number of cases with those of pairing vibrations. Such levels should be strongly populated in the reaction of two-nucleon transfers and not appear during Coulomb excitation and in inelastic scattering of particles. The most likely states for the levels of pairing neutron or proton vibrations are the 0^+ states:

^{160}Dy - 1.953 MeV ($X = 0.65$);

^{164}Er - 1.766 and 2.170 MeV (0.78 ± 0.11 and 1.76 ± 0.25);

^{168}Yb - 1.543 MeV (0.76 - 3.1);

^{170}Yb - 1.480 and 1.566 MeV (0.95 ± 0.06 and 0.66 ± 0.05);

^{178}Hf - 1.444 and 1.772 MeV (0.50 ± 0.02 and 0.57 ± 0.16). (11)

In all nuclei except ^{160}Dy, two other 0^+ levels below these states were observed experimentally. It should be mentioned that rotational bands were observed at the levels of pairing vibrations only in ^{170}Yb.

CONCLUSION

There is no doubt that the electric monopole excitations observed experimentally are in practically all cases strongly mixed. Even the "classical" β vibrations at the beginning of the deformation region (Sm and Gd isotopes) are strongly mixed with other types of excitation. Only the monopole interactions in even-even nuclei can be explained by means of the existing theoretical treatments. Increasingly large volumes of experimental data give rise to ever-increasing numbers of "superfluous" zeros. It is obvious that understanding the nature of 0^+ excitations requires fuller and more reliable data on the de-excitation of the 0^+ levels. Detailed studies on the different types of reaction and determinations of excitation cross-sections are essential.

All collected and systematized experimental data on the 0^+ excitations of the rotational states and on the de-excitation mechanisms of these states have been recorded on magnetic tape and stored in computers at the Nuclear Data Centre of the Leningrad Institute of Nuclear Physics.

The present study was carried out at the initiative and with the unceasing support of I.A. Kondurov, to whom I express my sincere gratitude for his constant interest in the work and for fruitful discussions. I wish to thank N.I. Pyatov for many useful discussions on the study. The programmes for sorting out experimental data were devised by O.N. Sbitneva; V.A. Khanevskaya prepared the material for the computer and I.M. Shesterneva rendered great help in using the programmes. I express my deep gratitude to them.

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*/ Translator's note. The meaning of this abbreviation is not known. It might be "Ehlementarnye Chastitsy i Atomnye Yadra" (Elementary particles and the atomic nucleus).

FIGURES

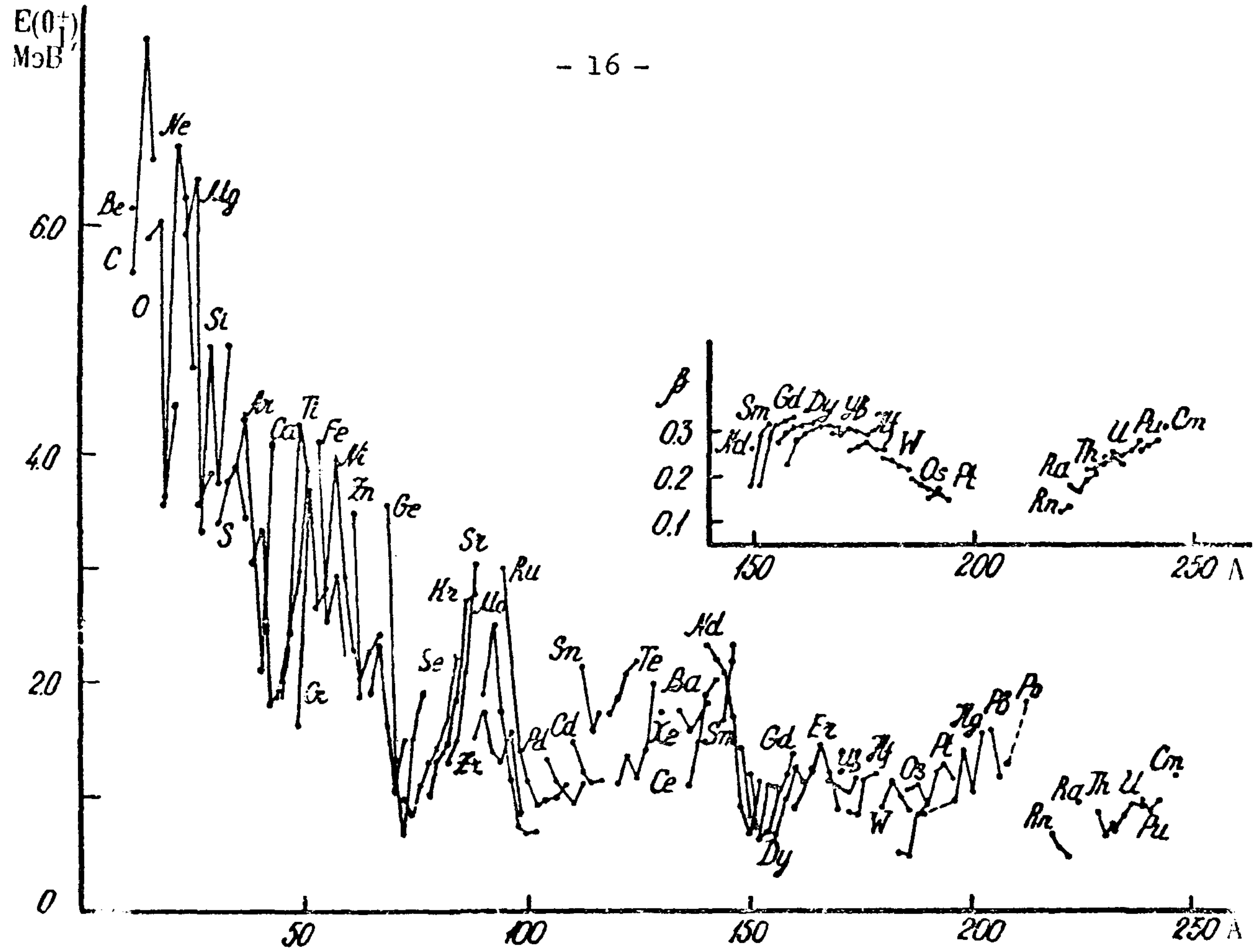

Рис. 1. Первые возбужденные 0^+– состояния в четно – четных атомных ядрах.

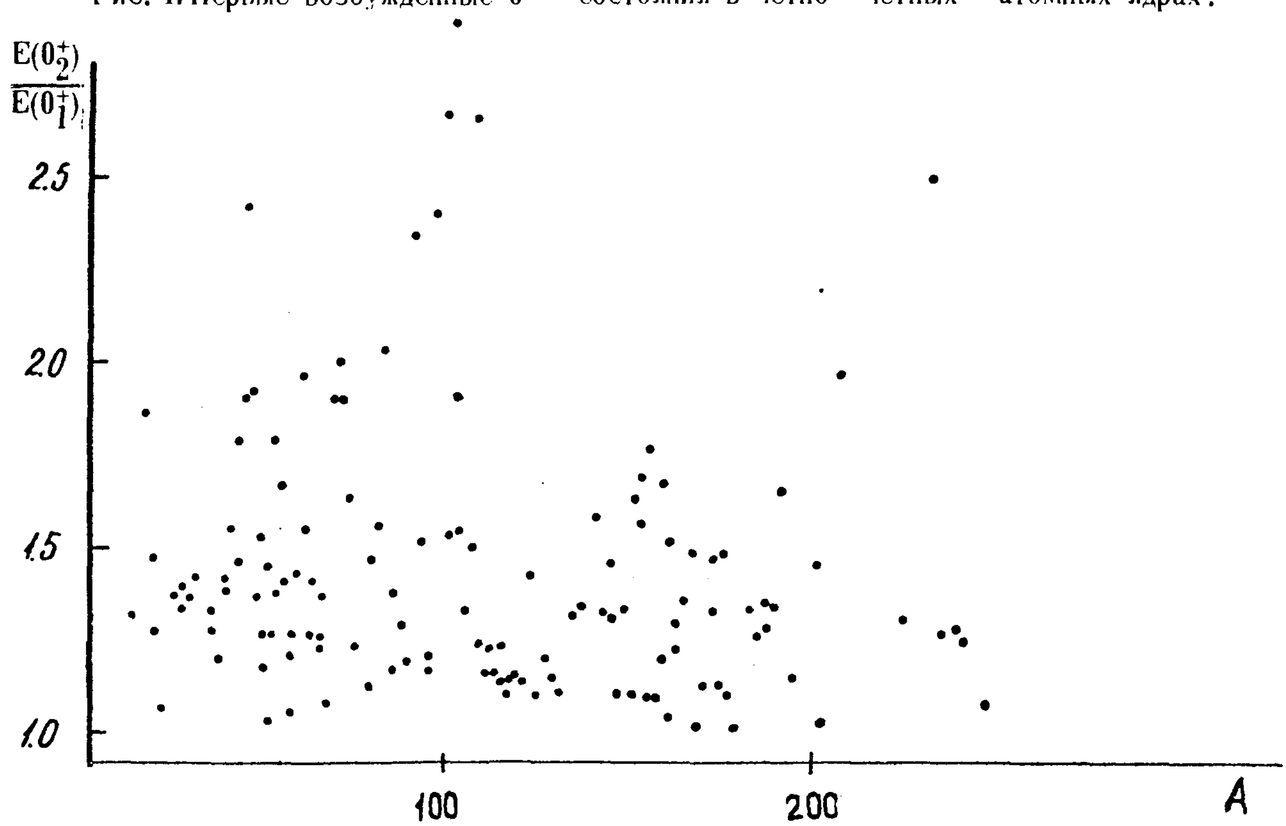

Рис. 2. Отношения энергий первых двух возбужденных 0^+– состояний для четно – четных ядер.

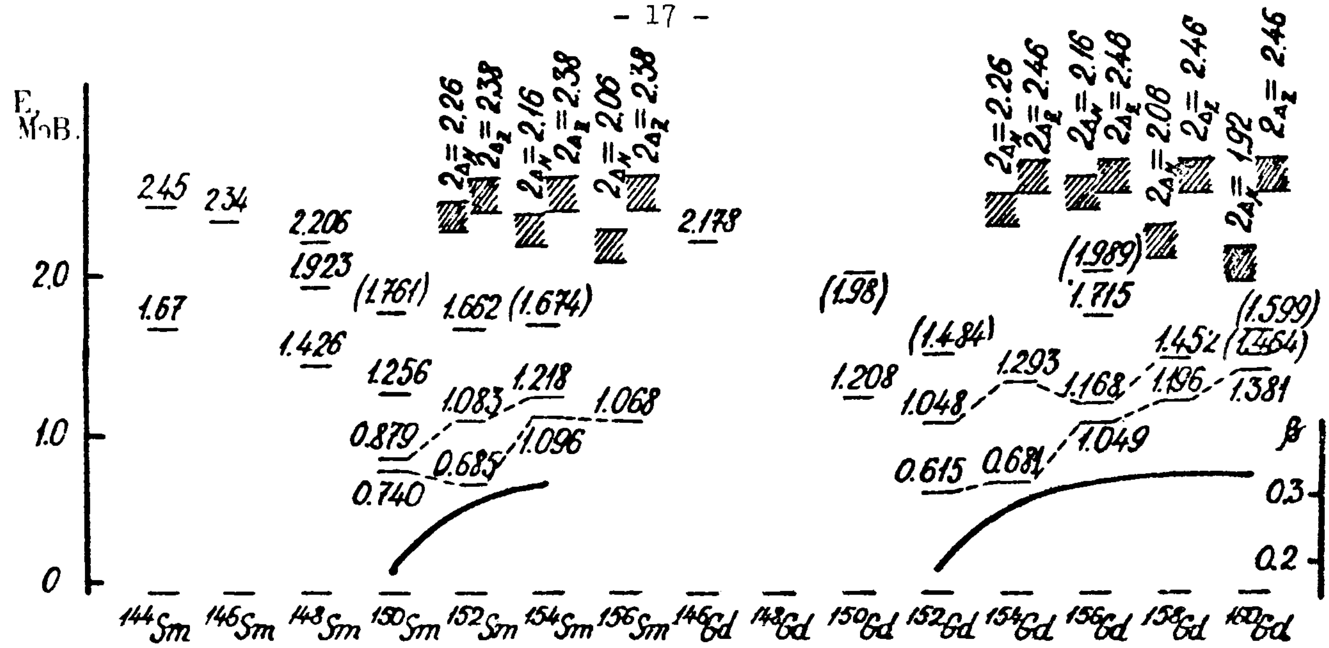

Рис. 3, а) Экспериментальные значения энергий 0^+ – возбуждений в изотопах Sm и Gd. Внизу дана зависимость параметра статической деформации β_0 от A. Вверху приведены вычисленные значения энергетической щели для нейтронов – $2\Delta_n$ и протонов – $2\Delta_z$ /15/.

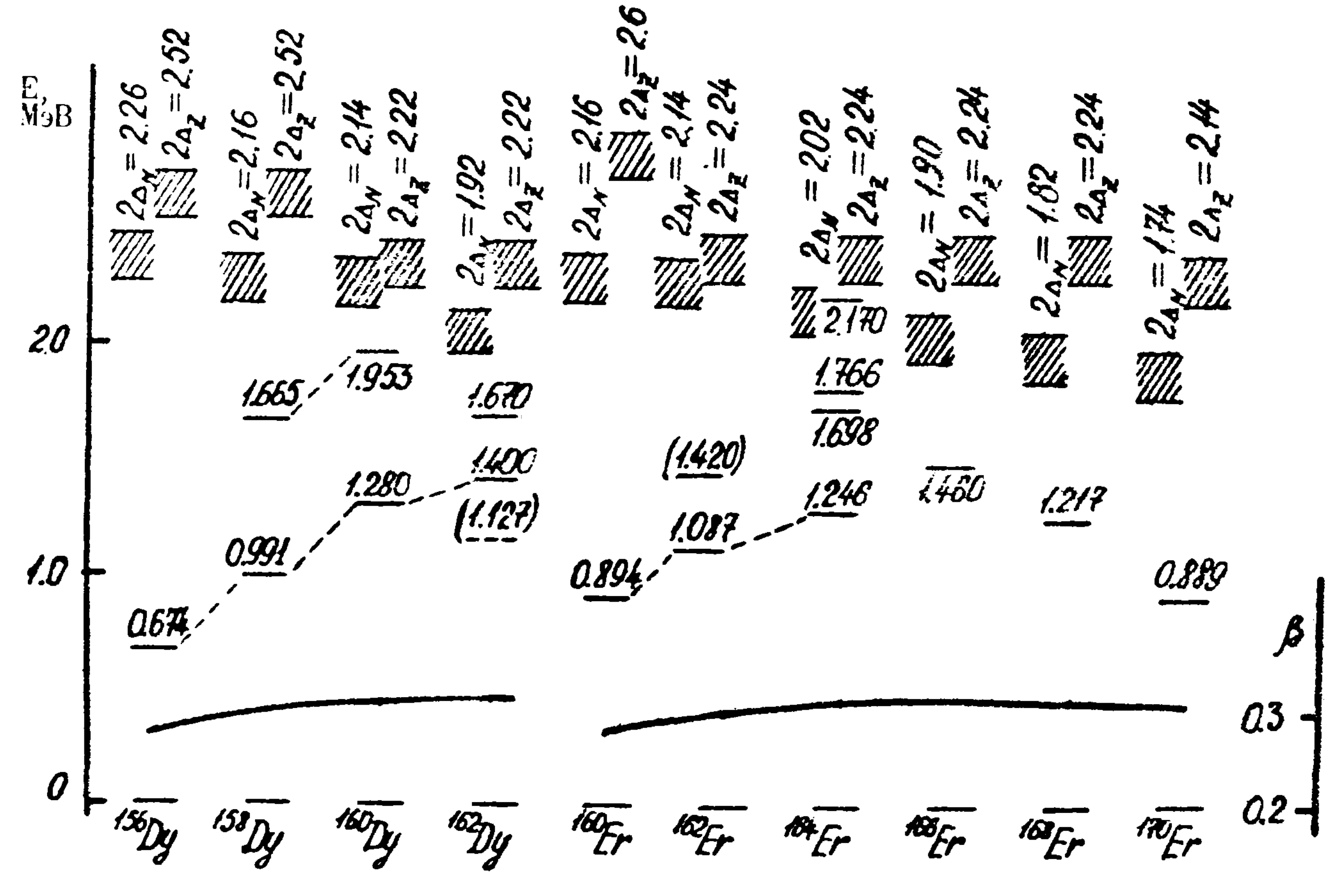

Рис. 3. б) То же для изотопов Dy и Er.

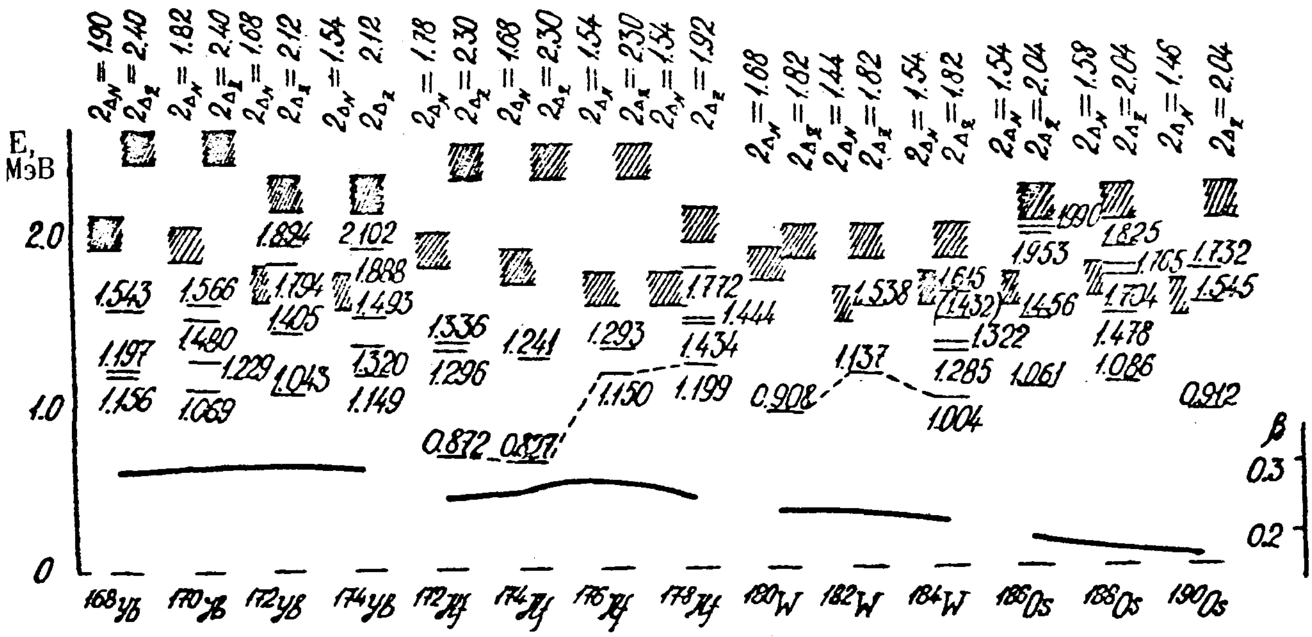

Рис. 3. в) То же для изотопов Yb , Hf , W, Os .

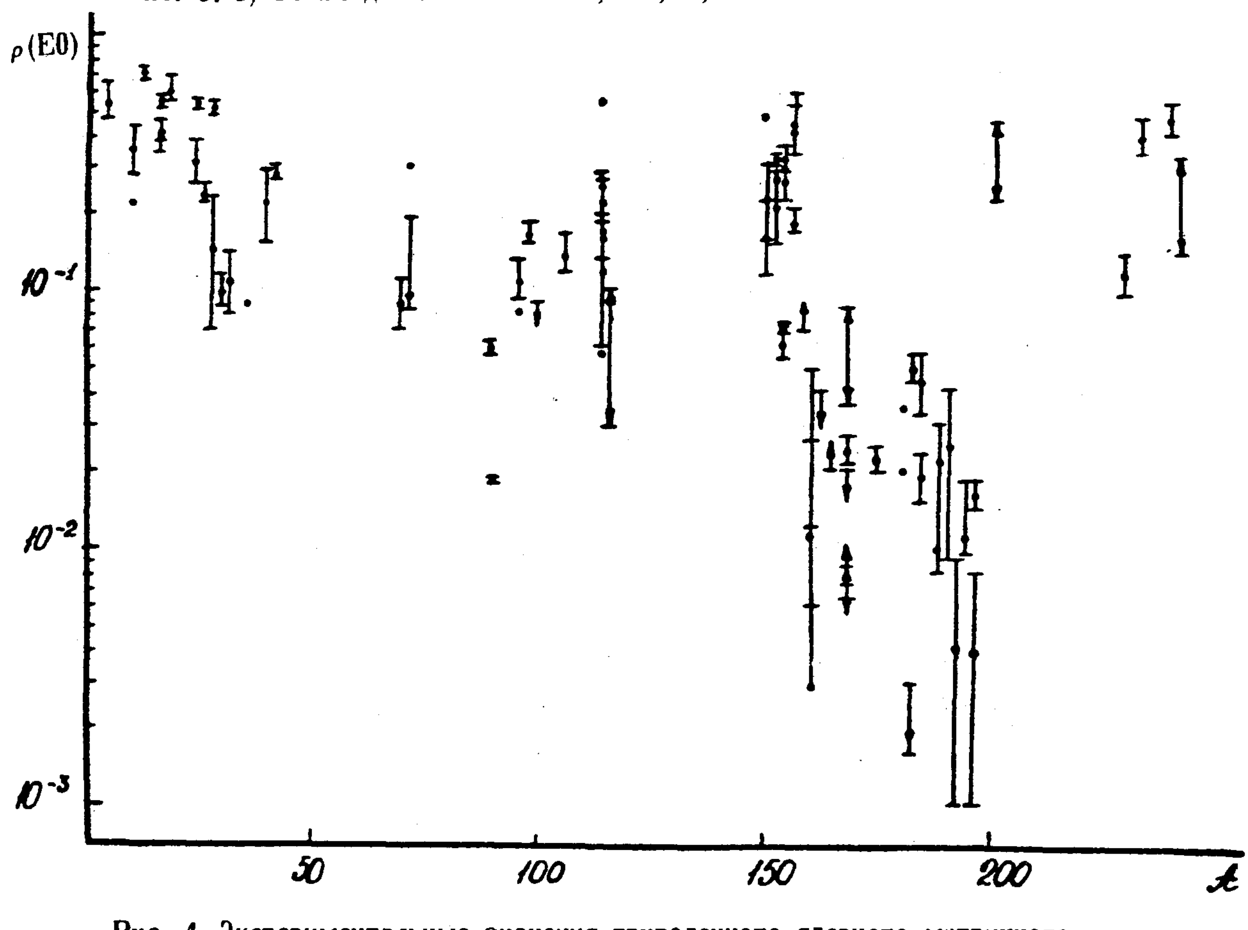

Рис. 4. Экспериментальные значения приведенного ядерного матричного элемента E0 – переходов в четно – четных ядрах.

Таблица

2	HE	6	20.26	0+	20.26	E0	RHO	5,5(-1)	9	68FR0657
4	BE	10	6.18	0+						75WA1659
4	BE	10	6.18	0+	6.18	E0				69AL1242
4	BE	10	6.18	0+	6.18	E0	RHO	2,2(-1)		69AL1242
6	C	10	5.60	0+						72SA0511
6	C	12	7.656	0+						61WA0133
6	C	12	7.65	0+						74PL0876
6	C	12	7.6562	0+						76CH0069
6	C	12	7.655	0+						75MA0031
6	C	12	7.655	0+	7.655	E0				75MA0031
6	C	12	7.655	0+	7.655	E0				75DA2063
6	C	12	7.65	0+	7.65	E0	RHO	6,7(-1)	17	56FR0225
6	C	12	7.65	0+	7.65	E0	RHO	7,1(-1)	3	68ST0616
6	C	12	7.65	0+	7.65	E0	RHO	7,4(-1)		69AL1242
6	C	12	7.66	0+	7.66	E0	RHO	7,3(-1)	5	64CR1580
6	C	12	7.66	0+	7.66	E0	RHO	7,4(-1)	7	65GU0111
6	C	12	7.66	0+	7.66	E0	RHO	7,1(-1)	6	67CR0152
6	C	12	7.68	0+	7.68	E0	RHO	5(-1)		55BC1281
6	C	12	10.1	(0+)						61WA0133
6	C	12	17.76	0+						74PA0876
6	C	12	17.8	0+						73JA0247
6	C	12	17.8	0+						73JA0247
6	C	12	27.611	0+						74G01525
6	C	14	6.5892	0+						70AJ0001
6	C	14	7.01	0+						64MI0063
8	O	16	14.00	0+	14.00	E0	RHO	3,6(-1)	8	69ST0306
8	O	16	5.91	((+)						69T00500
8	O	16	5.91	0+						70AD0697
8	O	16	5.91	((+)						73PR1382
8	O	16	5.930	0+						72BR1756
8	O	16	6.05	0+						66L01045
8	O	16	6.052	0+						70BE0152
8	O	16	6.052	0+						72AD0883
8	O	16	6.05	0+						73BI0217
8	O	16	6.05	0+						76FL1650
8	O	16	6.051	0+	6.051	E0				62NE0639
8	O	16	6.050	0+	6.050	E0	RHO	4,2(-1)		56DE0134
8	O	16	6.05	0+	6.05	E0	RHO	4,0(-1)	6	68ST0357
8	O	16	6.05	0+	6.05	E0	RHO	4,2(-1)		69AL1242
8	O	16	11.260	0+						72AD0883
8	O	16	12.03	0+	12.03	E0	RHO	5,4(-1)	3	70KI0083
8	O	16	12.050	0+	12.050	E0	RHO	4,8(-1)	5	68ST0376
8	O	16	12.05	0+	12.05	E0	RHO	4,8(-1)	5	68ST0357
8	O	16	12.05	0+	12.05	E0	RHO	4.5(-1)	1	70MA0000
8	O	16	12.05	0+	12.05	E0	RHO	4,4(-1)	10	73BE0232
8	O	16	14.00	0+	14. 0	E0	RHO	6,1(-1)	3	70MA0000
8	O	16	14.037	0+						71OP0609
8	O	16	14.035	0+						73MA0257
8	O	16	16.3	(0+)						75VA0736
8	O	16	22.9	0+						64CE0234
8	O	18	3.627	0+						73BE2007
8	O	18	3.63	0+						66MI0063
8	O	18	3.63	0+						66WI0975
8	O	18	3.632	0+						73WA0618
8	O	18	3.63	0+						76EC1645
8	O	18	3.63	0+						76KA0670
8	O	18	3.63	0+	3.63	E0	RHO	3.8(-1)		69AL1242
8	O	18	3.63	0+	3.63	E0	RHO	6,1(-1)	7	75S01899
8	O	18	5.329	0+						73BE2007
8	O	18	5.33	0+						66MI0063
8	O	18	5.33	0+						66WI0975
8	O	18	5.33	0+						60L00127
8	O	18	5.33	0+						71BE0401
8	O	18	5.33	0+	5.33	E0	RHO	<= 6.5(-1)		75S01899
8	O	20	4.446	0+						62MI0081
8	O	20	4.446	0+						72SA0511
8	O	20	4,45	0+						64MI0063
10	NE	18	3.576	0+						70LE0116
10	NE	18	3.56	(0+)						70AD0497
10	NE	18	3.58	0+						75OL1557
10	NE	18	3.616	(0+)						72PA0485
10	NE	18	3.616	(0+)						72PA0485
10	NE	18	4.59	0+						70NE1686
10	NE	20	6.71	0+						64PE0489
10	NE	20	6.72	0+						66AB0071
10	NE	20	6.722	0+						71MI[illegible]50
10	NE	20	6.722	0+						73OB1682
10	NE	20	6.722	0+						75BE0019

10	NE	20	6.725	0-						75ME1880
10	NE	20	6.738	0+						53CA0839
10	NE	20	7.195	0+						71MI0950
10	NE	20	7.191	0-						72AL0001
10	NE	20	7.196	0-						73OB1682
10	NE	20	7.196	0-						75ME1880
10	NE	20	7.218	0-						53CA0839
10	NE	20	7.21	0+						64PE0489
10	NE	20	7.21	0+						60AB0071
10	NE	20	8.3	0+						75BE0019
10	NE	20	15.8	0+						64CE0234
10	NE	22	6.24	0+						69SC0949
10	NE	22	6.24	0+						69SC0863
10	NE	22	6.88	0+						69SC0863
10	NE	22	7.33	0+						69SC0863
10	NE	24	4.76	0+						69HO0124
12	MG	22	5.945	0+						70MC0593
12	MG	22	5.95	0+						70MC0593
12	MG	22	6.061	0-						72PA0485
12	MG	22	6.061	0+						72PA0485
12	MG	24	6.433	0+						67SA0301
12	MG	24	6.436	0+	6.436	E0	RHO	5,2(-1)	5	68TI0066
12	MG	24	6.43	0+	6.43	E0	RHO	6,1(-1)		74HO1527
12	MG	24	6.44	0-						60AL0367
12	MG	24	6.44	0+						72BA0197
12	MG	24	6.44	0+	6.44	E0	RHO	5,3(-1)	2	68ST0416
12	MG	24	8.85	0+						67SA0301
12	MG	24	10.716	0+	10.716	E0	RHO	3,2(-1)	6	68TI0066
12	MG	24	15.4	0+						64GA0726
12	MG	24	15.434	0+						73JU0293
12	MG	26	3.584	0-						65HI0257
12	MG	26	3.586	0+						68HA1035
12	MG	26	3.589	0-						72OU0302
12	MG	26	3.58	0+	3.58	E0	RHO	2,4(-1)	2	74AD1819
12	MG	26	4.970	0+						65HI0257
12	MG	26	4.974	0+						68FE0086
12	MG	26	4.974	0+						68HA1035
12	MG	26	4.972	0-						72OU0302
12	MG	26	4.97	0+						75WA1622
12	MG	26	6.253	0+						65HI0257
12	MG	26	3.861	0-						64MI0077
12	MG	26	3.8627	0+	2.3892	E2	BE2	9(-4)	3	72FI0423
12	MG	26	5.264	0+						64MI0077
12	MG	26	5.695	0+						64MI0077
12	MG	26	5.7023	0+						74RA0080
14	SI	26	3.3325	(0)						69BA0337
14	SI	26	3.37	0+						68HA0432
14	SI	28	4.97	0+						60AL0367
14	SI	28	4.97	0+						74PL0878
14	SI	28	4.97	0+						74RO0001
14	SI	28	4.975	0+						75HA0285
14	SI	28	4.975	0+	4.975	E0	RHO	5,1(-1)	3	68ST0416
14	SI	28	4.98	0+						75ME0235
14	SI	28	4.98	0+	4.98	E0	RHO	5,8(-1)		74HO1527
14	SI	28	6.68	0-						66AL0367
14	SI	28	6.690	0-						69MC0566
14	SI	28	6.69	0-						74RO0001
14	SI	28	6.69	0-						75ME0235
14	SI	28	6.690	0+	6.690	E0	RHO	<= 2,2(-1)		68ST0416
14	SI	28	6.690	0+	6.690	E0	RHO	1,5(-1)	8	68ST0416
14	SI	28	10.70	0+						69HA1439
14	SI	28	14.61[illegible]	0+						73WE1397
14	SI	28	15.221	0+						70HA0561
14	SI	28	15.223	0+						72JE0200
14	SI	30	3.7877	0-						69JA0426
14	SI	30	3.788	0-						71SH0602
14	SI	30	3.7876	0-						73MA0497
14	SI	30	3.788	0-						73AN0513
14	SI	30	3.788	0+	3.788	E0	RHO	1,05(-1)	18	74WA1570
14	SI	30	3.79[illegible]	0+						73BA0007
14	SI	30	3.79	0+	3.79	E0	RHO	1,00(-1)	14	74AD1819
14	SI	30	5.370	0+						66WI0108
14	SI	30	5.372	0-						71SH0602
14	SI	30	5.37	0+						73BA0007
14	SI	30	5.3720	0+						73MA0497
14	SI	30	6.63	0-						73BA0007
14	SI	30	6.640	0+						69JA0426
14	SI	30	6.640	0+						71SH0602

14	SI	30	6.640	0+						73MA0497
14	SI	30	7.435	0+						71SH0602
14	SI	30	7.44	0+						73BA0007
14	SI	32	4.985	0+						71PR0830
16	S	30	3.41	0+						72GR1756
16	S	30	3.66	0+						66HA0432
16	S	30	3.668	0+						73KU0082
16	S	30	3.707	(0+)						72PA0485
16	S	30	3.707	(0+)						72PA0489
16	S	30	3.710	0						67MC0405
16	S	30	3.71	0+						72SA0511
16	S	32	3.7787	0+						73DE0614
16	S	32	3.775	0+						73CO1895
16	S	32	3.776	0+						74VI0173
16	S	32	3.78	(0+)						55RE0754
16	S	32	3.780	0+						66GR0513
16	S	32	3.78	0+	3.78	E0	RHO	8.1(-1)	10	63BI0118
16	S	32	3.78	0+	3.78	E0	RHO	6.9(-1)	7	64LO1964
16	S	32	3.780	0+	3.780	E0	RHO	<= 2.4(-1)		65ST0416
16	S	32	3.780	0+	3.780	E0	RHO	1.5(-1)	9	68ST0416
16	S	32	3.78	0+	3.78	E0	RHO	1.1(-1)	3	75AD0738
16	S	32	3.914	0+						73GO1326
16	S	32	7.522	0+						66GR0513
16	S	32	11.964	0+						70HA0561
16	S	32	12.050	0+						73VE0178
16	S	34	3.9151	0+						69GR0427
16	S	34	3.915	0+						71VA0456
16	S	34	3.91	0+	3.91	E0	RHO	1.02(-1)	10	75SO1103
16	S	34	3.92	0+						75CR0228
16	S	34	5.225	0+						71VA0456
16	S	34	5.22	0+						75CR0228
16	S	34	5.859	0+						71VA0456
16	S	34	5.86	0+						73CR0189
16	S	34	5.86	0+						75CR0228
16	S	34	8.02	0+						75CR0228
16	S	36	3.346	0+	3.346	E0				72SA1238
16	S	36	3.34	0+	3.338	E0	RHO	8.9(-2)		71OL2323
18	AR	34	3.869	0+						74GR0419
18	AR	34	3.879	0+						72PA0685
18	AR	34	3.879	0+						72PA0485
18	AR	34	3.899	0+						69BR0487
18	AR	34	3.90	0+						66HA0432
18	AR	34	4.967	0+						74GR0419
18	AR	34	4.97	0+						69BR0487
18	AR	36	4.3297	0+						72HO0481
18	AR	36	4.330	(0+)						70HO0143
18	AR	36	4.342	0+						66ER0241
18	AR	36	5.21	0+						66ER0241
18	AR	36	9.70	0+						69HA1439
18	AR	36	10.858	0+						70HA0561
18	AR	38	3.377	0+						68WI0347
18	AR	38	3.377	0+						72BA0529
18	AR	38	3.377	0+						74BE0195
18	AR	38	3.38	0+						73CA0473
18	AR	38	3.380	0+						75FL0117
18	AR	38	3.38	0+	3.38	E0	RHO	4.3(-1)	6	75SO1103
18	AR	38	4.71	0+						73CA0473
18	AR	38	4.712	0+						75FL0117
18	AR	38	7.06	0+						73CA0473
18	AR	38	7.060	0+						75FL0117
18	AR	38	9.72	(0+)						73CA0473
18	AR	38	10.51	(0+)						73CA0473
18	AR	38	10.55	(0+)						73CA0473
18	AR	38	18.784	0+						70HA0561
18	AR	40	2.1213	0+						70KE0948
18	AR	42	4.12	(0+)						73CA0473
20	CA	38	3.06	0+						69SH0073
20	CA	38	3.06	0+						74KU0037
20	CA	38	3.06	0+						74LI0076
20	CA	38	4.36	0+						66HA0487
20	CA	38	6.280	(0+)						72PA0485
20	CA	40	3.348	0+	3.348	E0	RHO	1.5(-1)		59KL0240
20	CA	40	3.352	0+						67EN0001
20	CA	40	3.35	0+						69SM0339
20	CA	40	3.357	0+						72AD0883
20	CA	40	3.35	0+						73[illegible]L0356
20	CA	40	3.35	0+						74PL0878
20	CA	40	3.357	0+						74DE0680

20	CA	40	3.35	0+						74MO0506
20	CA	40	3.356	0+						74SE0233
20	CA	40	3.3521	0+						75NO1159
20	CA	40	3.35	0+						75FO0439
20	CA	40	3.353	0+	3.353	E0				62NE0639
20	CA	40	3.352	0+	3.352	E0	RHO	2.2(-1)	7	68ST0416
20	CA	40	5.20	0+						66GR0273
20	CA	40	5.201	0+						67EN0001
20	CA	40	5.20	0+						74AD0883
20	CA	40	5.21	0+						73AL0356
20	CA	40	5.212	0+						74SE0233
20	CA	40	5.2138	0+						75NO1159
20	CA	40	5.21	0+						75FO0439
20	CA	40	5.28	0+						69SM0339
20	CA	40	7.30	0+						67EN0001
20	CA	40	7.30	0+						72AD0883
20	CA	40	7.304	0+						74SE0233
20	CA	40	7.3007	0+						75NO1159
20	CA	40	7.30	0+						75FO0439
20	CA	40	7.685	0+						74DE0680
20	CA	40	7.698	0+						74SE0233
20	CA	40	7.69	0+						75FO0439
20	CA	40	7.7012	(0+)						75NO1159
20	CA	40	8.271	(0+)						75NO1159
20	CA	40	8.28	0+						73AL0356
20	CA	40	8.284	0+						74SE0233
20	CA	40	8.28	0+						75FO0439
20	CA	40	8.42	0+						75FO0439
20	CA	40	8.438	0+						74SE0233
20	CA	40	8.4390	(0+)						75NO1159
20	CA	40	9.38	0+						73AL0356
20	CA	40	9.386	0+						74DE0680
20	CA	40	9.405	0+						74SE0233
20	CA	40	10.65	0+						73AL0356
20	CA	40	11.977	0+						70HA0561
20	CA	40	11.970	0+						72DE0000
20	CA	40	11.976	0+						74DE0680
20	CA	40	11.98	0+						73AL0356
20	CA	42	1.8	0+						74LI0074
20	CA	42	1.836	0+						62EN0001
20	CA	42	1.836	0+						64MI0077
20	CA	42	1.832	0+						73JA1782
20	CA	42	1.838	0+						73SE0132
20	CA	42	1.836	0+						74AL1013
20	CA	42	1.836	0+	1.836	E0	RHO	4.1(-1)	4	61BE0262
20	CA	42	1.836	0+	1.836	E0	RHO	2.82(-1)	15	71BE0806
20	CA	42	1.836	0+	1.836	E0	X	4.3(-2)	4	71BE0806
20	CA	42	1.836	0+	0.313	E2	BE2	5.56(-2)	34	69KO1725
20	CA	42	1.84	0+						65PE1479
20	CA	42	1.84	0+						67LI1170
20	CA	42	1.84	0+						67BJ0033
20	CA	42	1.84	0+						69SM0339
20	CA	42	1.84	0+						73CA0473
20	CA	42	3.299	0+						73JA1782
20	CA	42	3.297	0+						74AL1013
20	CA	42	3.30	0+						73RI1415
20	CA	42	4.11	0+						69TE0443
20	CA	42	5.85	0+						73CA0473
20	CA	42	5.85	0+						74AL1013
20	CA	42	5.863	0+						67WI1419
20	CA	42	6.015	0+						67WI1419
20	CA	42	6.01	0+						73CA0473
20	CA	42	6.01	0+						74AL1013
20	CA	42	6.08	0+						73DU0637
20	CA	42	6.518	0+						67WI1419
20	CA	42	6.51	(0+)						73CA0473
20	CA	42	6.51	(0+)						74AL1013
20	CA	42	6.70	0+						73CA0473
20	CA	42	6.70	(0+)						74AL1013
20	CA	42	8.45	0+						73DU0637
20	CA	42	12.28	0+						73DU0637
20	CA	44	1.88	0+						63DI0383
20	CA	44	1.885	0+						65MA0051
20	CA	44	1.886	0+						67BJ1229
20	CA	44	1.88	0+						67LI1170
20	CA	44	1.885	0+						70LA0095
20	CA	44	1.883	0+	0.726	E2	BE2	2.00(-2)	60	73MC1406
20	CA	44	1.89	0+						74MO0506

20	CA	44	2.657	2+	2.657	E2	BE2	>= 2.4(-3)		73MC1406
20	CA	44	2.657	2+	1.500	E2+M1	BE2	>= 6.0(-3)		73MC1406
20	CA	44	3.044	4+	0.761	E2+M1	BE2	1.5(-5)	+60-10	73MC1406
20	CA	44	3.303	2+	3.303	E2	BE2	1.5(-3)	+15-5	73MC1406
20	CA	44	3.592	(0+)						67RJ0033
20	CA	44	5.864	0+						67RJ0033
20	CA	46	2.427	0+						67RJ0033
20	CA	46	2.425	0+						67WI1419
20	CA	46	2.42	0+						73DU0637
20	CA	46	2.423	0+						73CR0574
20	CA	46	2.423	0+						74BE0099
20	CA	46	4.758	0+						73CR0574
20	CA	46	5.316	0+						67RJ0033
20	CA	46	5.316	(0+)						73CR0574
20	CA	46	5.328	0+						67WI1419
20	CA	46	5.596	0+						67RJ0033
20	CA	46	5.617	0+						67WI1419
20	CA	46	5.628	0+						67RJ0033
20	CA	46	6.047	(0+)						67RJ0033
20	CA	46	6.568	0+						67WI1419
20	CA	46	7.252	0+						67WI1419
20	CA	46	7.83	0+						74DU0637
20	CA	48	4.281	0+						67J00209
20	CA	48	4.281	0+						66HI0328
20	CA	48	4.284	0+						67RJ0033
20	CA	48	4.284	0+						70BE1037
20	CA	48	4.284	0+						70BE1037
20	CA	48	5.459	0+						66HI0328
20	CA	48	5.459	0+						67RJ0033
20	CA	48	5.459	0+						67J00209
20	CA	48	6.280	(0+)						72PA0685
20	CA	50	3.519	0+						66HI0328
20	CA	50	4.470	0+						66HI0328
20	CA	50	4.470	(0+)						67RJ0033
22	TI	42	1.83	(0+)						68HA0432
22	TI	42	1.83	(0+)						74AL1013
22	TI	42	1.89	(0+)						68SH0601
22	TI	42	2.68	(0+)						74AL1013
22	TI	42	5.55	0+						74AL1013
22	TI	42	6.37	(0+)						74AL1013
22	TI	44	1.905	0+						71SI0443
22	TI	44	1.903	0+						72RA0453
22	TI	44	1.9042	0+						73DI0579
22	TI	44	1.905	(0+)						73SI0946
22	TI	44	1.90	0+						74ST0965
22	TI	44	4.605	0+						72RA0453
22	TI	44	4.61	0+						72KO0568
22	TI	44	4.84	0+						74ST0965
22	TI	44	8.54	(0+)						74ST0965
22	TI	44	9.330	0+						72RA0453
22	TI	44	9.35	0+						66GA0726
22	TI	44	9.38	0+						72KO0568
22	TI	46	2.56	0+						66HO0406
22	TI	46	2.603	0+						68LE0273
22	TI	46	2.61	0+						69HO0686
22	TI	46	2.61	0+						67CH0896
22	TI	46	2.611	0+						70BA0528
22	TI	46	2.61	0+						72KO0568
22	TI	46	2.611	0+						72AS0131
22	TI	46	2.610	0+						73RA0371
22	TI	46	2.61	0+						74HO0506
22	TI	46	3.370	(0+)						73RA0371
22	TI	48	2.998	0+						73JA1796
22	TI	48	2.998	0+						73BA0190
22	TI	48	3.00	0+						67WI0422
22	TI	48	3.00	0+						67CH0896
22	TI	48	3.00	0+						72KO0568
22	TI	48	3.00	0+						74HO0506
22	TI	48	4.591	0+						67WI0422
22	TI	48	4.974	0+						67WI0422
22	TI	50	3.879	0+						67WI0422
22	TI	50	3.87	0+						74PR1345
22	TI	50	5.633	0+						67WI0422
22	TI	50	6.046	0+						67WI0422
22	TI	50	7.808	0+						67WI0422
24	CR	48	1.63	(0+)						69HA0602
24	CR	48	1.92	0+						71BR0058
24	CR	48	3.42	(0+)						72SH0017

24	CR	48	4.24	0+	72SH0017
24	CR	48	4.280	(0+)	71DO0173
24	CR	48	4.36	0+	71BR0058
24	CR	48	5.67	(0+)	72SH0017
24	CR	48	5.960	(0+)	71DO0173
24	CR	48	6.855	0+	71DO0173
24	CR	48	8.75	(0+)	71DO0173
24	CR	48	8.86	0+	71BR0058
24	CR	50	3.6976	(0+)	72RA0138
24	CR	50	3.86	0+	71BA0575
24	CR	50	3.8952	(0+)	72RA0138
24	CR	50	3.8952	0+	74PE0109
24	CR	50	4.05	0+	71BA0575
24	CR	50	4.35	0+	71BA0575
24	CR	50	4.75	0+	71BA0575
24	CR	52	2.648	(0)	61VA0047
24	CR	52	2.648	0+	65KA0561
24	CR	52	2.647	0+	70RA0689
24	CR	52	2.650	0+	67KA0931
24	CR	52	4.742	0+	70RA0689
24	CR	52	5.585	0+	70RA0689
24	CR	52	5.737	0+	70RA0689
24	CR	54	2.8294	0+	70VE6165
24	CR	54	3.986	0+	70VE6165
24	CR	54	4.573	0+	70VE6165
24	CR	56	3.897	0+	70RA0443
26	FE	52	4.13	0+	72EV0268
26	FE	52	4.14	0+	70SU0468
26	FE	52	5.72	0+	72EV0268
26	FE	52	8.05	0+	72EV0268
26	FE	52	8.52	0+	70VI1674
26	FE	52	8.53	0+	72EV0268
26	FE	52	10.30	0+	72EV0268
26	FE	54	2.56	0+	70SU0468
26	FE	54	2.56	0+	67CH0894
26	FE	54	2.564	0+	70VE6165
26	FE	54	2.564	0+	72MO0012
26	FE	54	2.56	0+	74SU0461
26	FE	54	4.29	0+	72EV0268
26	FE	54	6.50	0+	72EV0268
26	FE	54	7.58	(0+)	72EV0268
26	FE	54	8.48	0+	64GA0726
26	FE	54	8.52	(0+)	72EV0268
26	FE	54	10.25	(0+)	72EV0268
26	FE	54	10.70	0+	72EV0268
26	FE	56	2.939	0+	67MA0593
26	FE	56	2.939	0+	73KE0525
26	FE	56	2.942	0+	66CO0748
26	FE	56	2.9411	0+	69AR0241
26	FE	56	2.9417	0+	74LA0333
26	FE	56	2.940	0+	74PE0205
26	FE	56	3.120	0+	74PE0205
26	FE	56	3.601	0+	66CO0748
26	FE	56	3.6052	0+	69AR0241
26	FE	56	3.600	0+	73KE0525
26	FE	56	3.6070	0+	74LA0333
26	FE	56	3.600	0+	74PE0205
26	FE	56	4.296	0+	66CO0748
26	FE	56	4.3020	(0+)	74LA0333
26	FE	56	4.7299	(0+)	74LA0333
26	FE	56	4.73	0+	72EV0268
26	FE	56	5.41	0+	72EV0268
26	FE	56	6.50	0+	72EV0268
26	FE	56	8.11	(0+)	72EV0268
26	FE	56	9.20	(0+)	72EV0268
26	FE	58	2.2568	0+	69FA0641
26	FE	58	2.2568	0+	69SC0122
26	FE	58	2.26	0+	67CO1033
26	FE	58	3.24	0+	67CO1033
26	FE	58	3.2640	0+	69FA0641
26	FE	58	3.244	0+	69SC0122
26	FE	58	4.17	0+	67CO1033
26	FE	58	4.35	0+	67CO1033
26	FE	58	4.65	(0+)	67CO1033
26	FE	58	5.15	0+	67CO1033
26	FE	58	5.41	0+	67CO1033
26	FE	58	5.52	0+	67CO1033
26	FE	58	5.522	0+	69FA0641

26	FE	58	5.60	0+	67CO1033
26	FE	58	5.83	0+	67CO1033
26	FE	58	6.18	(0+)	67CO1033
26	FE	58	6.46	0+	67CO1033
26	FE	58	6.65	0+	67CO1033
26	FE	58	6.76	0+	67CO1033
26	FE	58	6.84	(0+)	67CO1033
26	FE	58	7.12	0+	67CO1033
28	NI	56	3.95	0+	72WI0481
28	NI	56	3.95	0+	74FU0447
28	NI	56	3.9521	0+	74NA1880
28	NI	56	3.952	0+	74BE0429
28	NI	56	3.956	0+	75SC0113
28	NI	56	3.96	0+	72EV0268
28	NI	56	4.95	0+	68DA0363
28	NI	56	4.99	0+	70SU0468
28	NI	56	5.000	0+	70BR2200
28	NI	56	5.00	(0+)	72EV0268
28	NI	56	5.002	0+	74NA1880
28	NI	56	5.007	0+	74BE0429
28	NI	56	5.003	0+	75SC0113
28	NI	56	5.01	0+	74FU0447
28	NI	56	6.00	0+	74FU0447
28	NI	56	6.50	0+	72WI0481
28	NI	56	6.58	0+	68DA0363
28	NI	56	6.58	0+	72EV0268
28	NI	56	6.62	0+	74FU0447
28	NI	56	6.644	0+	70BR2200
28	NI	56	6.654	0+	75SC0113
28	NI	56	6.662	0+	74NA1880
28	NI	56	7.289	0+	70BR2200
28	NI	56	7.69	0+	74FU0447
28	NI	56	7.903	0+	75SC0113
28	NI	56	7.912	0+	70BR2200
28	NI	56	7.91	0+	74FU0447
28	NI	56	7.913	0+	74NA1880
28	NI	56	7.92	0+	68DA0363
28	NI	56	7.92	0+	72EV0268
28	NI	56	7.95	0+	72WI0481
28	NI	56	9.75	0+	74FU0447
28	NI	56	9.917	0+	74NA1880
28	NI	56	9.94	0+	74FU0447
28	NI	56	9.96	0+	72EV0268
28	NI	56	9.994	0+	74NA1880
28	NI	56	10.021	0+	74NA1880
28	NI	56	10.1	0+	72WI0481
28	NI	56	10.25	0+	74FU0447
28	NI	58	2.94	0+	70SU0468
28	NI	58	2.9425	0+	70RA0065
28	NI	58	2.940	0+	74KO0065
28	NI	58	3.50	0+	74KO0065
28	NI	58	3.55	0+	72EV0268
28	NI	58	5.96	0+	74KO0065
28	NI	58	10.59	0+	72EV0268
28	NI	58	14.47	0+	74KO0065
28	NI	60	2.286	(0+)	60VA0076
28	NI	60	2.2848	0+	72VA0245
28	NI	60	2.284	0+	73RO0577
28	NI	60	2.284	0+	73RO0577
28	NI	60	2.283	0+	74KO0065
28	NI	60	2.293	0+	71DA0259
28	NI	60	3.53	0+	72EV0268
28	NI	60	3.738	0+	71DA0253
28	NI	60	4.340	0+	74KO0065
28	NI	60	5.531	(0+)	71DA0253
28	NI	62	2.04	0+	69BE0596
28	NI	62	2.0484	0+	69FA0026
28	NI	62	2.0479	0+	70VA0427
28	NI	62	2.0486	0+	70FA0569
28	NI	62	2.049	0+	74MO0086
28	NI	62	2.047	0+	75KO1681
28	NI	62	2.055	0+	71DA0253
28	NI	62	2.06	(0)	70ES0201
28	NI	62	2.85	0+	69DA0858
28	NI	62	2.877	0+	71DA0253
28	NI	62	2.889	0+	75KO1681
28	NI	62	3.46	0+	69DA0858
28	NI	62	3.464	0+	71DA0253

28	NI	62	3.857	(0+)		71DA0253
28	NI	62	4.226	0+		75KO1681
28	NI	62	4.623	0+		75KO1681
28	NI	62	4.631	0+		71DA0253
28	NI	62	5.447	0+		75KO1681
28	NI	62	5.673	0+		71DA0253
28	NI	64	2.27	0+		69BE0596
28	NI	64	2.270	0+		71DA0253
28	NI	64	2.860	0+		71DA0253
28	NI	64	3.020	(0+)		71DA0253
28	NI	64	4.211	(0+)		71DA0253
28	NI	66	2.437	0+		71DA0253
28	NI	66	2.664	0+		71DA0253
28	NI	66	2.965	0+		71DA0253
30	ZN	60	3.504	0+		74KA0620
30	ZN	60	3.51	0+		72GR1756
30	ZN	60	6.88	0+		72WI0481
30	ZN	60	7.47	0+		72WI0481
30	ZN	62	1.88	0+		73HI0117
30	ZN	62	2.33	0+		74HI1381
30	ZN	62	2.38	0+		70JA0107
30	ZN	62	2.38	0+		73KA0865
30	ZN	62	3.93	0+		73KA0865
30	ZN	62	3.96	0+		73HI0117
30	ZN	62	3.98	0+		72FA0545
30	ZN	62	3.98	0+		72FA0545
30	ZN	62	4.00	(0+)		73KA0865
30	ZN	62	4.00	0+		74HI1381
30	ZN	62	4.57	0+		72FA0545
30	ZN	62	4.57	0+		72FA0545
30	ZN	62	4.62	(0+)		74HI1381
30	ZN	62	5.17	0+		73HI0117
30	ZN	62	5.24	(0+)		74HI1381
30	ZN	64	1.90	0+		67FO0128
30	ZN	64	1.9115	0+		67CA0201
30	ZN	64	1.910	0-		75AN2139
30	ZN	64	1.94	0+		74HI1381
30	ZN	64	1.96	0+		65LI0613
30	ZN	64	2.609	0+		74HI1381
30	ZN	64	2.609	0+		75AN2139
30	ZN	64	2.61	0+		67FO0128
30	ZN	64	2.618	0+		67CA0201
30	ZN	64	3.24	0+		74HI1381
30	ZN	64	4.01	(0+)		74HI1381
30	ZN	64	4.48	(0+)		74HI1381
30	ZN	66	2.340	0+		67CA0201
30	ZN	66	2.3723	0+		66FR0899
30	ZN	66	2.3723	(0+)		66FR0899
30	ZN	66	2.371	0+		67KA0931
30	ZN	66	2.3717	0+		68CA1743
30	ZN	66	2.373	0+		68SH0114
30	ZN	66	2.3722	0+		70PH0647
30	ZN	66	2.3728	0+		71CA0349
30	ZN	66	2.379	0+		72HU0264
30	ZN	66	2.372	0+		75AN2139
30	ZN	66	2.38	0+		67FO0525
30	ZN	66	2.39	0+		67FO0128
30	ZN	66	2.9381	0+		73SZ0217
30	ZN	66	3.106	0+		68SH0114
30	ZN	66	3.106	0+		68SH0114
30	ZN	66	3.1051	0+		70PH0647
30	ZN	66	3.120	0+		72HU0264
30	ZN	66	3.2126	0+		73SZ0217
30	ZN	66	3.328	0+		68SH0114
30	ZN	66	3.528	0+		68SH0114
30	ZN	66	3.329	0+		72HU0264
30	ZN	66	3.824	0+		68SH0114
30	ZN	66	3.826	0+		68SH0114
30	ZN	66	4.517	0+		72HU0264
30	ZN	68	1.63	(0+)		65LI0613
30	ZN	68	1.650	0+		67CA0201
30	ZN	68	1.647	0+		68HU0086
30	ZN	68	1.65	0+		68IN1013
30	ZN	66	1.656	0+		68CA1329
30	ZN	68	1.6559	0+		71OT0069
30	ZN	68	1.656	0+		72HU0264
30	ZN	68	1.6559	0+	1.6599 E0	72SL0026
30	ZN	68	3.100	0+		72HU0266

30	ZN	68	3.157	0+						72HU0264
30	ZN	68	3.712	0+						72HU0264
30	ZN	68	4.145	0+						72HU0264
30	ZN	70	1.069	0+						72HU0266
30	ZN	70	2.139	0+						72HU0266
30	ZN	70	3.325	(0+						72HU0266
30	ZN	70	3.677	0+						72HU0264
30	ZN	72	1.505	0+						72HU0264
30	ZN	72	2.476	0+						72HU0264
32	GE	68	3.55	0+						72SH0017
32	GE	70	1.216	0+						67PA0159
32	GE	70	1.216	0+						68VA1427
32	GE	70	1.2153	0+						68DE0473
32	GE	70	1.213	0						74BA0334
32	GE	70	1.216	0+						74AR0644
32	GE	70	1.215	0+	1.215	E0				75BU0085
32	GE	70	1.215	0+	1.215	E0	RHO	9(-2)	2	58AL1222
32	GE	70	1.21	0+	0.176	E2	BE2U	< 4(-3)		67KR0049
32	GE	70	1.216	0+	0.176	E2	BE2U	1.50(-2)	17	69SI0455
32	GE	70	1.216	0+	0.1795	E2	BE2U	1.58(-2)	26	72SI0553
32	GE	70	2.307	0+						68VA1427
32	GE	70	2.3071	0+						69HI0250
32	GE	70	2.301	0						74BA0334
32	GE	70	2.887	0						68VA1427
32	GE	70	2.8871	0+						69HI0250
32	GE	70	3.107	(0)						68VA1427
32	GE	70	3.1072	0+						69HI0250
32	GE	72	0.6896	0+	0.6896	E0	RHO	9.5(-2)	5	74DR0948
32	GE	72	0.690	0						74BA0334
32	GE	72	0.690	0+						74AR0644
32	GE	72	0.690	0+	0.690	E0				62NE0639
32	GE	72	0.6912	0+	0.6912	E0				71RE0461
32	GE	72	0.690	0+	0.690	E0				74NI0083
32	GE	72	0.690	0+	0.690	E0	RHO	1.1(-1)	2	58AL1222
32	GE	72	0.690	0+	0.690	E0	RHO	1.0(-1)		68EI0622
32	GE	72	0.690	0+	0.690	E0	RHO	9.6(-2)	13	71AN0035
32	GE	72	0.693	0+	0.145	E2	BE2U	5.1(-3)	5	67KR0049
32	GE	72	1.464	2+	0.630	E0+M1+E2	IK(E0)/IG(E2)	<= 2(-2)		74CH0365
32	GE	72	1.464	2+	0.630	E0+M1+E2	QSQ	0.5(0)	1	72HA0349
32	GE	74	1.486	0+						64DA0456
32	GE	74	1.4826	0+						71CA0165
32	GE	74	1.4829	0+						72VA0148
32	GE	74	1.4824	0+						75TA0107
32	GE	74	1.4829	0+						75CA0183
32	GE	76	1.9111	0+						71CA0401
34	SE	72	0.922	0+	0.922	E0				73WY0796
34	SE	72	0.937	0+						73RA0721
34	SE	72	0.9368	0+						74CO1457
34	SE	72	0.9368	0+	0.9368	(E0)				72CO1457
34	SE	72	0.937	0+	0.937	E0	RHO	1.76(-1)	+48-70	74HA0239
34	SE	72	0.9360	0+	0.9360	E0	RHO	3.04(-1)	3	74DR0948
34	SE	72	0.937	0+	0.075	E2	BE2	3.2(-1)	6	74HA0239
34	SE	74	0.8536	0+						70GO0241
34	SE	74	0.854	0+						74RA1123
34	SE	74	0.8541	0+	0.2193	E2	BE2	1.51(-1)	10	74BA0154
34	SE	74	1.060	(0+)						68BE0137
34	SE	74	1.2693	2+	1.2692	E2	BE2	1.6(-3)	1	74BA0154
34	SE	76	1.11	(0+)						65LI0613
34	SE	76	1.123	0+						71MI0604
34	SE	76	1.123	0+						71II0901
34	SE	76	1.1220	0+						72AR0545
34	SE	76	1.216	2+	1.2161	E2	BE2	2.4(-3)	1	74BA0154
34	SE	76	1.2162	2+	0.6572	E2+M1	BE2	8.2(-2)	2	74BA0154
34	SE	76	1.7874	2+	1.2288	E2	BE2	2(-3)	1	74BA0154
34	SE	78	1.3088	2+	1.3088	E2	BE2	2.1(-3)	1	74BA0154
34	SE	78	1.3088	2+	0.6945	E2+M1	BE2	6.6(-2)	5	74BA0154
34	SE	78	1.4983	0+						71RA0458
34	SE	78	1.4985	0+						73HI0365
34	SE	78	1.4985	0+	0.6848	E2	BE2	5.8(-2)	10	74BA0154
34	SE	78	1.5021	(0+)						70MC0529
34	SE	78	1.51	0+						65LI0340
34	SE	78	1.6930	(0+)						70MC0529
34	SE	78	1.9975	2+	1.9975	E2	BE2	1.7(-4)	7	74BA0154
34	SE	78	2.3269	(0+)						70MC0529
34	SE	78	2.334	0+						71RA0458
34	SE	78	2.4526	(0+)						70MC0529
34	SE	80	1.4495	2+	1.4495	E2	BE2	2.68(-3)	8	74BA0154
34	SE	80	1.4495	2+	1.4495	E2	BE2	2.84(-3)	10	74BA0154

34	SE	80	1.4495	2+	0.7832	M1+E2	BE2	3.8(-2)	+2-3	74BA0154
34	SE	80	1.4495	2+	0.7832	M1+E2	BE2	1.4(-2)	4	74BA0154
34	SE	80	1.4771	0+						71MC0593
34	SE	80	1.4795	0+						73SZ1429
34	SE	80	1.4783	0+	0.8120	E2	BE2	1.4(-2)	2	74BA0154
34	SE	80	1.48	(0+)						65LI0613
34	SE	80	1.9603	2+	1.294	E2	BE2	2.0(-3)	15	74BA0154
34	SE	80	2.3109	(0+)						71MC0593
34	SE	80	3.317	0+						73SZ1429
34	SE	80	3.4416	0+						73SZ1429
34	SE	80	3.6149	0+						73SZ1429
34	SE	80	4.0637	0+						73SZ1429
34	SE	82	1.4096	(0+)						75KR0013
34	SE	82	1.7312	2+	1.7310	E2	BE2	2.9(-3)	3	74BA0154
34	SE	82	1.7312	2+	1.0763	E2	BE2	1.06(-2)	15	74BA0154
34	SE	84	2.247	0+						74KN1467
34	SE	84	2.655	0+						74KN1467
36	KR	78	1.0177	(0+)						72KO0243
36	KR	78	1.0173	(0+)						73BA0243
36	KR	78	1.499	0+						71MO0561
36	KR	80	1.324	0+						70MC0497
36	KR	80	1.321	0+						73BR0493
36	KR	82	1.475	2+	0.696	E0+M1+E2	IK(E0)/IG(E2)	9(-3)	+73-9	73GA2080
36	KR	82	2.1718	(0+)						69RA0129
36	KR	82	2.172	(0+)						70GR0161
36	KR	82	2.19	0+						62SA1087
36	KR	82	2.945	(0+)						69RA0129
36	KR	82	3.187	(0+)						70GR0161
36	KR	82	3.190	(0+)						69RA0129
36	KR	84	1.835	0+						72MA0050
36	KR	84	1.8373	(0+)						72HI0805
36	KR	84	1.834	0+						74AR2301
36	KR	84	2.171	(0+)						70HA0625
36	KR	86	2.724	(0+)						72TU2075
36	KR	86	3.544	(0+)						74PI0450
36	KR	88	2.789	0+						74SH0241
38	SR	82	1.310	0+						73BA1438
38	SR	82	2.665	0+						73BA1438
38	SR	84	1.505	0+						73BA1438
38	SR	84	2.04	0+						73MO0155
38	SR	84	2.075	0+						73BA1438
38	SR	84	2.525	0+						73BA1438
38	SR	86	2.100	0+						73BA1438
38	SR	88	3.05	0+						67GL0097
38	SR	88	3.155	0+						69RA1238
38	SR	88	4.38	0+						67GL0097
40	ZR	88	1.517	0+						71BA0196
40	ZR	88	1.520	0+						69BA1699
40	ZR	88	1.82	0+						69BA0172
40	ZR	88	2.22	0+						69BA0172
40	ZR	88	2.225	0+						69BA1699
40	ZR	88	2.225	0+						71BA0196
40	ZR	88	3.43	(0+)						69BA1699
40	ZR	90	1.75	0+						63CO2184
40	ZR	90	1.75	0+						67MO0345
40	ZR	90	1.752	0+	1.752	E0				70CO0131
40	ZR	90	1.750	0+	1.750	E0	RHO	6.0(-2)	15	58AL1222
40	ZR	90	1.750	0+	1.750	E0	RHO	5.6(-2)		59KL0240
40	ZR	90	1.752	0+	1.752	E0	RHO	1.83(-2)	4	71AN0035
40	ZR	90	1.761	0+						68PE0124
40	ZR	90	1.76	0+						69BA0172
40	ZR	90	1.761	0+						70BA0416
40	ZR	90	1.761	0+						71BA0196
40	ZR	90	1.76	0+						73KA0322
40	ZR	90	1.762	0+	1.762	E0				62NE0639
40	ZR	90	1.76	0+	1.76	E0	RHO	5.9(-2)		72BU0357
40	ZR	90	4.129	0+						70BA0416
40	ZR	90	4.125	0+						71BA0196
40	ZR	90	4.428	0+						70BA0416
40	ZR	90	4.447	0+						71BA0196
40	ZR	90	5.441	0+						71BA0196
40	ZR	90	5.45	0+						70BA0416
40	ZR	92	1.385	0+						70RI2297
40	ZR	92	1.389	0+						71BA0196
40	ZR	92	1.382	0+						75IP0189
40	ZR	92	1.39	0+						69BA0172
40	ZR	92	1.390	0+						74FL0285
40	ZR	92	2.900	0+						75IP0189

40	ZR	92	3.589	(0+)						75IP0189
40	ZR	92	3.992	(0+)						75IP0189
40	ZR	92	4.283	0+						75IP0189
40	ZR	94	1.295	0+						71SA0196
40	ZR	94	1.30	0+						69BA0172
40	ZR	94	1.30	0+						69HA0137
40	ZR	94	1.3017	0+						71CA0363
40	ZR	94	1.304	0+						74FL0285
40	ZR	96	1.59	0+						69BE0000
40	ZR	96	1.59	0+						69BA0172
40	ZR	96	1.594	0+						74FL0285
40	ZR	96	1.59	0+	1.59	E0				70CO0131
40	ZR	96	1.59	0+	1.59	E0	RHO	8.3(-2)		72BU0357
40	ZR	96	1.624	0+						67BE1188
40	ZR	98	0.8535	0+	0.8535	E0				71FO0372
42	MO	90	1.890	0+						72JO0462
42	MO	90	1.90	0+						71MO0392
42	MO	90	1.90	(0+)						71MO0392
42	MO	92	2.515	0+						73LA0751
42	MO	92	2.517	0+						74MC0670
42	MO	92	2.52	0+						71MO0145
42	MO	92	2.52	0+						71TA0520
42	MO	92	2.52	0+						71MO0145
42	MO	92	3.835	0+						73LA0751
42	MO	92	3.85	0+						71MO0145
42	MO	92	3.85	0+						71MO0145
42	MO	92	3.86	0+						71TA0520
42	MO	92	5.150	0+						73LA0751
42	MO	94	1.73	(0+)						75RU0461
42	MO	94	1.746	0+						73HO2286
42	MO	94	1.742	0+						74MC0670
42	MO	94	1.8642	2+	0.9932	E2+M1	BE2	1.16(-1)	26	72BA1339
42	MO	94	2.066	(0+)						71LU0934
42	MO	94	2.08	(0+)						69CA1682
42	MO	94	3.320	0+						73LA0751
42	MO	94	3.70	0+						72MO0605
42	MO	94	3.700	0+						73LA0751
42	MO	94	3.71	0+						71TA0520
42	MO	96	1.1479	(0+)						70HE0069
42	MO	96	1.147	(0+)						71LU0934
42	MO	96	1.148	0+						74GA0036
42	MO	96	1.147	0+						74MC0670
42	MO	96	1.1479	0+	1.1479	E0				74GA0036
42	MO	96	1.1479	0+	1.1479	E0	RHO	1.1(-1)	2	75FE0093
42	MO	96	1.1479	0+	1.1479	E0	X	8(-3)	2	75FE0093
42	MO	96	1.148	0+	0.778	E2	BE2U	2.70(-2)	35	71BA0061
42	MO	96	1.15	0+						73KE0388
42	MO	96	1.16	(0+)						75BU0461
42	MO	96	1.4977	2+	0.7194	E2+M1	BE2	6.8(-2)	8	72BA1339
42	MO	96	1.6258	2+	0.8476	E2+M1	BE2	6.5(-2)	15	72BA1339
42	MO	96	2.75	0+						72MO0605
42	MO	98	0.736	0+						70KE0346
42	MO	98	0.735	0+						71TA0520
42	MO	98	0.735	0+						71HE0327
42	MO	98	0.736	0+						71LU0934
42	MO	98	0.735	0+						71MC1154
42	MO	98	0.7346	0+						72BA1339
42	MO	98	0.737	0+						73SH2567
42	MO	98	0.736	0+	0.736	E0				69HU0577
42	MO	98	0.736	0+	0.736	E0				70CO0131
42	MO	98	0.734	0+	0.736	E0	RHO	1.65(-1)	15	71AN0035
42	MO	98	0.74	(0+)						75BU0461
42	MO	98	1.4322	2+	0.6469	E2+M1	BE2	1.43(-1)	25	72BA1339
42	MO	98	1.7588	2+	0.9713	E2+M1	BE2	1.6(-2)	13	72BA1339
42	MO	98	1.964	0+						73SH2567
42	MO	98	2.617	0+						73SH2567
42	MO	98	2.803	0+						73SH2567
42	MO	98	3.270	0+						73SH2567
42	MO	100	0.68	(0+)						75BU0461
42	MO	100	0.694	(0+)						71LU0934
42	MO	100	0.6944	0+						72BA1339
42	MO	100	0.696	0+						73MO0677
42	MO	100	0.694	0+						74MC0670
42	MO	100	0.695	0+						75BO0327
42	MO	100	1.0637	2+	0.5282	E2	BE2	1.78(-1)	21	72BA1339
42	MO	100	2.033	0+						73MO0677
42	MO	102	0.698	0+						71CA0663
42	MO	102	0.699	0+						72CA0357

42	MO	102	0.699	0+						75B00327
42	MO	102	1.333	0+						71CA0643
42	MO	102	1.334	0+						72CA0357
44	RU	96	2.995	0+						73BA0425
44	RU	96	3.615	0+						73BA0425
44	RU	96	3.77	0+						73BA0425
44	RU	98	1.3980	(0+)						72BA0321
44	RU	98	1.3980	(0+)						72BA0321
44	RU	98	1.410	2+	1.410	E2	BE2U	7.4(-3)	11	68MC0529
44	RU	100	1.1304	0+						69BU0222
44	RU	100	1.1304	0+						69BE1618
44	RU	100	1.132	0+						71JA0449
44	RU	100	1.132	0+						72TA0396
44	RU	100	1.1301	0+	1.1301	E0	QSQ	7.5(-2)		74K01174
44	RU	100	1.1303	0+	1.1303	E0	QSQ	1.06(-1)	9	74K01996
44	RU	100	1.1301	0+	1.1301	E0	RHO	< 6.9(-2)		74K01174
44	RU	100	1.1303	0+	1.1303	E0	RHO	< 1.1(-1)		74K01996
44	RU	100	1.1301	0+	1.1301	E0	X	7.5(-3)		74K01174
44	RU	100	1.1303	0+	1.1303	E0	X	1.1(-2)	1	74K01996
44	RU	100	1.366	2+	1.366	E2	BE2U	1.85(-2)	25	68MC0529
44	RU	100	1.366	2+	0.826	E2	BE2U	9.10(-2)	155	68MC0529
44	RU	100	1.7406	0+						69BU0222
44	RU	100	1.7406	0+						69BE1618
44	RU	100	1.7407	0+	1.7407	E0	QSQ	1.6(0)	9	74K01996
44	RU	100	1.7407	0+	1.7407	E0	X	6(-1)	3	74K01996
44	RU	100	1.7407	0+	0.6105	E0	QSQ	1.3(-1)	3	74K01996
44	RU	100	1.7407	0+	0.6105	E0	B(E0)/B(E2,03-22)	3.5(-3)	8	74K01996
44	RU	100	2.0515	0+						69BU0222
44	RU	100	2.0515	0+						69BE1618
44	RU	100	2.387	0+						69BU0222
44	RU	100	2.387	0+						69BE1618
44	RU	102	0.9437	0+						70TA0641
44	RU	102	0.9438	0+						70HU0358
44	RU	102	0.944	0+						72TA0398
44	RU	102	1.105	2+	1.105	E2	BE2	1.65(-2)	19	68MC0529
44	RU	102	1.105	2+	0.530	E2	BE2U	8.19(-2)	119	68MC0529
44	RU	102	1.8371	0+						70TA0641
44	RU	102	1.8372	0+						70HU0358
44	RU	104	0.893	2+	0.893	E2	BE2U	2.76(-2)	30	68MC0529
44	RU	104	0.893	2+	0.535	E2	BE2U	1.23(-1)	19	68MC0529
44	RU	104	0.983	(0+)						68MC0529
44	RU	104	0.9868	0+						70PI0323
44	RU	104	0.989	0+						72CA0357
44	RU	106	0.989	0+						70CA0045
44	RU	106	0.989	0+						72CA0357
44	RU	106	0.9911	0+						70HE0985
44	RU	106	0.9911	0+						73KA0320
44	RU	106	2.639	(0+)						72CA0357
44	RU	108	1.0926	(0+)						73KA0320
46	PD	104	1.332	0+						69DI1553
46	PD	104	1.3334	(0+)						71MU0097
46	PD	104	1.3336	0+						72OK0131
46	PD	104	1.334	0+						74G00065
46	PD	104	1.3337	0+						74G00127
46	PD	104	1.792	0+						60BU0253
46	PD	104	1.792	0+						67FE0465
46	PD	104	1.7927	0+						72OK0131
46	PD	104	1.793	0+						74G00065
46	PD	104	1.7929	0+						74G00127
46	PD	106	1.1272	2+	1.1272	E2	BE2U	1.78(-2)	14	69R00553
46	PD	106	1.13	0+						60C01582
46	PD	106	1.1334	0+						67RA0385
46	PD	106	1.1336	0+						69ST0231
46	PD	106	1.134	0+						73AV1238
46	PD	106	1.134	0+						74G00065
46	PD	106	1.133	0+						74G00127
46	PD	106	1.1336	0+						74C00061
46	PD	106	1.1337	0+						75SH0582
46	PD	106	1.1339	0+	1.1339	E0	RHO	1.37(-1)	25	73GR1121
46	PD	106	1.133	0+	1.133	E0	RHO	1.1(-1)	6	74BE0070
46	PD	106	1.1339	0+	1.1339	E0	X	2.1(-2)	7	73GR1121
46	PD	106	1.133	0+	1.133	E0	X	1.6(-2)	2	74BE0070
46	PD	106	1.1328	0+	0.6211	E2	BE2U	1.8(-2)	4	69R00553
46	PD	106	1.56	(0+)						60C01582
46	PD	106	1.7061	0+						69ST0231
46	PD	106	1.704	0+						73AV1238
46	PD	106	1.704	0+						73AV0259
46	PD	106	1.706	0+						74G00065

46	PD	106	1.706	0+						74G00127
46	PD	106	1.7060	0+						74C00061
46	PD	106	1.7065	0+						75SH0582
46	PD	106	1.706	0+	1.706	E0	X	<= 2(+1)		74BE0070
46	PD	106	1.94	(0+)						60C01582
46	PD	106	2.001	0+						67RA0385
46	PD	106	2.0010	0+						69ST0231
46	PD	106	2.001	0+						73AV1238
46	PD	106	2.001	0+						74G00065
46	PD	106	2.001	0+						74G00127
46	PD	106	2.0010	0+						74C00061
46	PD	106	2.0016	0+						75SH0582
46	PD	106	2.001	0+	2.001	E0	X	5.2(+1)	15	74BE0070
46	PD	106	2.080	0+						74G00065
46	PD	106	2.2276	0+						75SH0582
46	PD	106	2.2780	0+						69ST0231
46	PD	106	2.278	0+						73AV1238
46	PD	106	2.278	0+						73AV0259
46	PD	106	2.306	0+						73AV1238
46	PD	106	2.306	0+						73AV0259
46	PD	106	2.5004	0+						69ST0231
46	PD	106	2.6244	0+						69ST0231
46	PD	106	2.624	0+						73AV1238
46	PD	106	2.624	0+						73AV0259
46	PD	106	2.6242	0+						75SH0582
46	PD	106	2.8296	0+						69ST0231
46	PD	106	2.8277	0						75SH0582
46	PD	106	2.8783	0+						69ST0231
46	PD	106	2.8774	0+						75SH0582
46	PD	106	3.0826	0						75SH0582
46	PD	106	3.1624	0						75SH0582
46	PD	106	3.2212	0+						69ST0231
46	PD	106	3.2205	0+						75SH0582
46	PD	106	3.2955	0+						69ST0231
46	PD	106	3.3213	0+						69ST0231
46	PD	106	3.3202	0						75SH0582
46	PD	108	0.931	2+	0.931	E2	BE2U	1.70(-2)	14	69R00553
46	PD	108	1.0528	0+						71OK0565
46	PD	108	1.053	0+						74G00065
46	PD	108	1.0526	0+						75G00013
46	PD	108	1.0534	0+	0.6195	E2	BE2U	2.7(-2)	6	69R00553
46	PD	108	1.314	0+						74G00065
46	PD	108	1.3142	(0+)						75G00013
46	PD	110	0.8137	2+	0.8137	E2	BE2U	1.28(-2)	11	69R00553
46	PD	110	0.945	(0+)						69R01609
46	PD	110	0.945	0+						73DE0307
46	PD	110	0.947	0+						74G00065
46	PD	110	0.9467	0+						75G00013
46	PD	110	0.9465	0+	0.572	E2	BE2U	2.3(-2)	4	69R00553
46	PD	110	1.1706	(0+)						75G00013
46	PD	110	1.2122	2+	1.2122	E2	BE2U	2.2(-3)	3	69R00553
46	PD	112	1.123	0+						72CA0357
48	CD	106	1.718	2+	1.085	E2	BE2	4.9(-2)	8	69MI0687
48	CD	106	1.718	2+	1.085	E2+M1	BE2	2.1(-2)	7	73GR0633
48	CD	108	1.603	2+	0.970	E2	BE2	5.6(-2)	16	69MI0687
48	CD	110	1.4732	0+						70VA1861
48	CD	110	1.4730	0+						72KA0204
48	CD	110	1.4757	2+	0.8178	E2	BE2	1.01(-1)	29	69MI0687
48	CD	110	1.475	2+	0.818	E0+M1+E2	IK(E0)/IG(E2)	9.7(-3)	+139-97	73GA2080
48	CD	110	1.7315	(0+)						72KA0204
48	CD	110	2.0789	0+						72KA0204
48	CD	110	2.6619	0+						72KA0204
48	CD	112	1.211	0+						65C00326
48	CD	112	1.228	0+						67BA1319
48	CD	112	1.2241	0+						69SA0687
48	CD	112	1.224	0+						69LI1127
48	CD	112	1.223	0+						70MA0321
48	CD	112	1.2235	0+						72KA0204
48	CD	112	1.2242	0+						72WA0417
48	CD	112	1.23	0+						60C01582
48	CD	112	1.23	(0)						70ES0201
48	CD	112	1.3117	2+	0.6951	E2	BE2	1.48(-1)	20	69MI0687
48	CD	112	1.312	2+	0.695	E2+M1	BE2	5.8(-2)	11	73GR0633
48	CD	112	1.43	0+						60C01582
48	CD	112	1.430	0+						65C00326
48	CD	112	1.436	0+						67BA1319
48	CD	112	1.4317	0+						70MA0321
48	CD	112	1.4332	0+						72WA0417

48	CD	112	1.468	2+	0.851	E2+M1	BE2	3(-4)	+5-3	73GR0633
48	CD	112	1.7836	2+	0.8514	E2	BE2	2.2(-2)	5	69MI0687
48	CD	112	1.86	0+						60CO1582
48	CD	112	1.8697	0+						70MA0321
48	CD	112	1.876	0+						67BA1319
48	CD	112	1.871	0+						69LI1127
48	CD	112	1.8702	0+						72KA0204
48	CD	112	1.8708	0+						72WA0417
48	CD	112	1.870	0+						74GE0129
48	CD	112	1.88	(0)						70ES0201
48	CD	112	2.28	0+						60CO1582
48	CD	112	2.302	0+						67BA1319
48	CD	112	2.83	0+						60CO1582
48	CD	114	1.1342	0+						70BA1069
48	CD	114	1.1342	0+						71FO0334
48	CD	114	1.134	0+						74GI0397
48	CD	114	1.134	0+	1.134	E0	RHO	1,6(-1)	3	66BA0154
48	CD	114	1.134	0+	0.576	E2	BE2	9,8(-2)	22	65GO0097
48	CD	114	1.15	0+						60CO1582
48	CD	114	1.209	2+	1.2 9	E2	BE2	4,0(-4)	8	57ST0267
48	CD	114	1.209	2+	1.209	E2	BE2	1,8(-3)	6	61ST0209
48	CD	114	1.209	2+	1.209	E2	BE2	1,75(-3)	26	65GO0097
48	CD	114	1.209	2+	0.651	E0+E2	BE2	1,6(-1)	3	57ST0209
48	CD	114	1.209	2+	0.651	E0+E2	BE2	1,4(-1)	5	61ST0209
48	CD	114	1.209	2+	0.651	E0+E2	BE2	1,39(-1)	31	65GO0154
48	CD	114	1.2093	2+	0.6502	E2	BE2	8,12(-2)	227	69MI0687
48	CD	114	1.208	2+	0.650	E2+M1	BE2	7,9(-2)	23	73GR0633
48	CD	114	1.209	2+	0.651	E0+E2	RHO	< 1,1(-1)		66BA0154
48	CD	114	1.3054	0+						71FO0334
48	CD	114	1.306	0+						74GI0397
48	CD	114	1.305	0+	1.305	E0	RHO	5,4(-1)		66BA0154
48	CD	114	1.305	0+	0.171	E0	RHO	2,5(-1)		65BA0154
48	CD	114	1.31	0+						60CO1582
48	CD	114	1.364	2+	1.364	E2	BE2	1,6(-3)	4	61ST0209
48	CD	114	1.364	2+	1.364	E2	BE2	1,28(-3)	26	65GO0097
48	CD	114	1.364	2+	0.806	E0+E2	BE2	<= 2.4(-2)	6	61ST0209
48	CD	114	1.364	2+	0.806	E0+E2	BE2	<= 1,9(-2)	4	65GO0097
48	CD	114	1.3640	2+	0.8068	E2	BE2	1,28(-2)	39	69MI0687
48	CD	114	1.363	2+	0.805	E2+M1	BE2	3(-5)	+43-5	73GR0633
48	CD	114	1.364	2+	0.806	E0+E2	RHO	2,2(-1)	4	66BA0154
48	CD	114	1.364	2+	0.154	E0+E2	RHO	1,7(-1)	11	66BA0154
48	CD	114	1.608	(0+)						61SM0183
48	CD	114	1.731	4+	0.468	E0+E2	RHO	5,7(-2)		66BA0154
48	CD	114	1.841	2+	0.631	E0+E2	RHO	1,2(-1)		66BA0154
48	CD	114	1.86	0+						60CO1582
48	CD	114	1.861	(0)						74GI0397
48	CD	114	2.048	(0+)						61SM0183
48	CD	114	2.53	0+						60CO1582
48	CD	114	2.62	0+						60CO1582
48	CD	114	2.90	0+						60CO1582
48	CD	114	3.23	0+						60CO1582
48	CD	114	3.66	0+						60CO1582
48	CD	116	1.1540	(0+)						70BA1069
48	CD	116	1.2136	2+	0.6[illegible]	E2	BE2	7,3(-2)	20	69MI0687
48	CD	116	1.283	0+						74GI0397
48	CD	116	1.377	0+						70DE0064
48	CD	116	1.377	(0+)						72DE0449
48	CD	116	1.377	0+						73DE0307
48	CD	116	1.381	0+						74GI0397
48	CD	116	1.917	(0)						74GI0397
48	CD	116	1.953	(0)						74GI0397
50	SN	112	2.153	0+						72SI0449
50	SN	114	1.58	0+						67SC1316
50	SN	114	1.95	0+						67SC1316
50	SN	114	1.956	0+						69BJ0481
50	SN	114	1.970	0+						72SI0449
50	SN	114	2.155	(0+)						69BJ0481
50	SN	116	1.73	0+						64BO1557
50	SN	116	1.75	0+						67FE0465
50	SN	116	1.759	0+						68BJ0001
50	SN	116	1.7569	0+						73FE0195
50	SN	116	1.756	0+						74AC0078
50	SN	116	1.7570	0+	1.7570	E0	RHO	> 3(-2)	< 1(-1)	72PL0443
50	SN	116	1.7574	0+	1.7574	E0	X	2,3(-2)	7	71SA0065
50	SN	116	1.762	0+						65AL0481
50	SN	116	1.76	0+						67SC1316
50	SN	116	2.026	0+						74AC0078
50	SN	116	2.03	0+						67SC1316

50	SN	116	2.5457	(0+)						73FE0195
50	SN	116	2.62	0+						67SC1316
50	SN	118	1.75	0+						60CO1582
50	SN	118	1.75	0+						67SC1316
50	SN	118	1.7575	0+						70HA0203
50	SN	118	1.758	0+						74AC0078
50	SN	118	2.03	0+						60CO1582
50	SN	118	2.043	0+						65AL0481
50	SN	118	2.05	0+						67SC1316
50	SN	118	2.0564	0+						70HA0203
50	SN	118	2.057	0+						74AC0078
50	SN	118	2.064	0+						68BJ0001
50	SN	118	2.48	0+						60CO1582
50	SN	118	2.487	0+						65AL0481
50	SN	118	2.49	0+						67SC1316
50	SN	118	2.4965	0+						70HA0203
50	SN	118	3.136	0+						68BJ0001
50	SN	118	3.1371	0+						70HA0203
50	SN	120	1.872	0+						65AL0481
50	SN	120	1.8756	0+						71LI0150
50	SN	120	1.8756	0+						71LI0150
50	SN	120	1.875	0+						74AC0078
50	SN	120	1.874	0+						74KI0001
50	SN	120	1.88	0+						67SC1316
50	SN	120	1.881	0+						68BJ0001
50	SN	120	1.89	0+						60CO1582
50	SN	120	2.150	0+						68BJ0001
50	SN	120	2.159	0+						74KI0001
50	SN	120	2.16	0+						60CO1582
50	SN	120	2.1607	0+						71LI0150
50	SN	120	2.1607	0+						71LI0150
50	SN	120	2.17	0+						67SC1316
50	SN	120	2.31	0-						67SC1316
50	SN	120	2.518	0+						74KI0001
50	SN	120	2.60	0+						67SC1316
50	SN	120	2.62	0+						60CO1582
50	SN	120	2.632	0+						65AL0481
50	SN	122	2.089	0+						74AC0078
50	SN	124	2.193	0+						74AC0078
52	TE	120	1.103	0+						69SP1270
52	TE	120	1.103	0+	1.103	E0				70GA2048
52	TE	122	1.3575	0+						68LA1447
52	TE	122	1.357	0+						69SP1270
52	TE	122	1.357	0+						70GA2048
52	TE	122	1.353	0+						72AU0353
52	TE	122	1.9407	(0+)						68LA1447
52	TE	122	1.940	(0+)						70GA2048
52	TE	124	1.156	0+	1.156	E0	X	1,83(-1)		71ZH0043
52	TE	124	1.290	0+						70CH0302
52	TE	124	1.656	0+						69BU1113
52	TE	124	1.657	0+						69RA1721
52	TE	124	1.658	0+	1.658	E0	X	6,7(-2)		71ZH0043
52	TE	124	1.658	0+	0.502	E0				71ZH0043
52	TE	124	1.88	0+						72AU0353
52	TE	124	2.020	0+	0.865	E0				71ZH0043
52	TE	126	1.396	0+						74GR0691
52	TE	126	1.396	0+	1.396	E0	X	2,59(-1)		71ZH0043
52	TE	126	1.685	0+	1.685	E0				71ZH0043
52	TE	124	1.875	0+						71SE0644
52	TE	126	1.878	0+						71GR0497
52	TE	126	2.061	0+	2.061	E0				70GA2048
52	TE	126	2.061	0+	2.061	E0				71ZH0043
52	TE	126	2.061	0+	0.664	E0				71ZH0043
52	TE	126	2.582	0+						71GR0497
52	TE	128	1.979	0+						71SE0644
52	TE	128	2.305	0+						71SE0644
54	XE	130	1.7395	(0+)						73BA0233
54	XE	130	1.7939	(0+)						73HO0745
54	XE	130	1.7921	(0+)						76GE2363
54	XE	130	1.796	0+	1.796	E0	X	6(0)	3	76BA0087
54	XE	130	2.0170	(0+)						73HO0745
54	XE	130	2.0170	(0+)						76GE2363
54	XE	130	2.0161	0+	2.0161	E0	X	1.00(+2)	50	73BA0233
54	XE	130	2.016	0+	2.016	E0	X	1.00(+2)	50	76BA0087
56	BA	134	1.168	2+	0.563	E0+M1+E2	IK(E0)/IG(E2)	< 4.5(-2)		73GA2080
56	BA	134	1.760	0+	1.760	E0				71AB0736
56	BA	134	1.7607	0+	1.7599	E0				73AL1035
56	BA	134	2.3367	0+	2.335	E0				73AL1035

56	BA	134	2.379	0+	2.379	(E0)				71AB0734
56	BA	134	2.3796	0+	2.3796	E0				73AL1035
56	BA	134	2.4870	0+	2.4870	E0				73AL1035
56	BA	136	1.5792	(0+)						69GE1682
56	BA	136	1.5790	0+						69ME1220
56	BA	136	1.5757	(0+)						74CH1622
56	BA	136	2.1415	0+						69ME1220
56	BA	136	2.2845	0+						69ME1220
56	BA	136	2.3154	0+						69ME1220
56	BA	140	1.8241	0+						73SC0589
56	BA	140	1.8240	(0+)						74SC2328
58	CE	136	1.0761	(0+)						73BU1581
58	CE	138	1.4768	0+						69JU0569
58	CE	138	1.477	0+						71AF1603
58	CE	138	1.478	0+	1.478	E0				66GR0225
58	CE	138	1.477	0+	1.477	E0				74BU0063
58	CE	138	1.4738	0+	1.4738	E0	RHO	5(-2)		67BU3541
58	CE	138	1.4738	0+	1.4738	E0	RHO	1.5(-1)		67BU3541
58	CE	138	1.4738	0+	1.4738	E0	X	6.3(-2)	9	67BU3541
58	CE	140	1.9030	0+						69BE0570
58	CE	140	1.90	0+	1.90	E0				65CH0657
58	CE	140	1.902	0+	1.902	E0	RHO	FROM 5(-2)	TO 2.1(-1)	64HI0625
58	CE	140	1.902	0+	1.902	E0	RHO	< 1(-1)		65SA0520
58	CE	140	3.017	0+	3.017	E0	X	1.7(-1)		74PU0092
58	CE	142	2.030	0+						75BA1755
60	ND	140	1.4143	(0+						75ZA0997
60	ND	140	2.33	0+						69BA0533
60	ND	142	2.20	0+						69BA0533
60	ND	142	2.216	0+						74TE0095
60	ND	142	2.21	0+	2.21	E0				65CH0657
60	ND	142	2.2172	0+	2.2172	E0				73RA0021
60	ND	142	2.91	0+						69YA0852
60	ND	142	2.94	0+						69BA0533
60	ND	142	2.974	0+						73RA0021
60	ND	142	3.582	0+						74TE0095
60	ND	144	2.085	0						68RA0402
60	ND	144	2.08	0+						69BA0533
60	ND	144	2.66	0+						69BA0533
60	ND	144	2.743	0+						72CH0603
60	ND	144	2.84	0+						69BA0533
60	ND	144	2.86	0+						68HU0106
60	ND	144	2.96	0+						69BA0533
60	ND	144	3.02	0+						69BA0533
60	ND	144	3.14	0+						69BA0533
60	ND	144	3.17	0+						69YA0852
60	ND	146	1.493	0+						72CH0603
60	ND	148	0.911	0+						72CH0603
60	ND	148	0.98	0+						66MA1000
60	ND	150	0.675	0+						70CH0292
60	ND	150	0.675	0+						72CH0603
60	ND	150	0.69	0+	0.86	E2	BE2U	1.2(-1)	3	65YO0273
60	ND	152	1.139	0+						72CH0603
60	ND	152	1.145	0+						70CH0292
62	SM	144	1.67	0+	1.67	E0				65CH0657
62	SM	144	2.45	0+	2.45	E0				65CH0657
62	SM	144	2.479	0+						73MA0221
62	SM	144	2.48	0+						71KO2256
62	SM	144	2.4807	0+						73SZ0217
62	SM	146	2.339	(0+)						73OE0263
62	SM	146	2.339	(0+)						74OE0237
62	SM	146	2.611	0+						66BJ0145
62	SM	148	1.426	0+						72DE0385
62	SM	148	1.429	0+						73OE0263
62	SM	148	1.429	0+						74OE0237
62	SM	148	1.45	0+						66MA1000
62	SM	148	1.923	0+						72DE0385
62	SM	148	2.206	0+						72DE0385
62	SM	148	2.220	(0+)						74OE0237
62	SM	148	2.358	0+						72OE0385
62	SM	150	0.767	0+						70LA0615
62	SM	150	0.740	0+	0.740	E0	RHO	1.6(-1)	5	70GR2074
62	SM	150	0.740	0+	0.740	E0	X	1.7(-2)		61HA1758
62	SM	150	0.740	0+	0.740	E0	X	3(-2)	1	63GR0216
62	SM	150	0.740	0+	0.740	E0	X	1.25(-2)		65GU0401
62	SM	150	0.740	0+	0.740	E0	X	1.8(-2)	5	70GR2074
62	SM	150	0.740	0+	0.406	E2	BE2	2.55(-1)	30	68KE0676
62	SM	150	0.829	0+	0.829	E0				68LU0076
62	SM	150	1.046	2+	1.046	E2	BE2U	1.8(-2)	6	68VE0489

62	SM	150	1.046	2+	0.712	E0+E2	BE2	3.9(-1)	12	66SE0925
62	SM	150	1.046	2+	0.712	E0+E2	RHO	2(-1)		68LU0074
62	SM	150	1.046	2+	0.712	E0+E2	RHO	2.2(-1)	7	70GR2074
62	SM	150	1.046	2+	0.712	E0+E2	X	5(-2)		63LU0042
62	SM	150	1.047	2+	0.712	E0+E2	X	5(-2)		63GR0216
62	SM	150	1.046	2+	0.712	E0+E2	B(E0)/SB(E2)	2.1(-2)	5	70GR2074
62	SM	150	1.194	2+	1.194	E2	BE2U	8.9(-2)	44	66SE0925
62	SM	150	1.194	2+	0.859	E0+E2	BE2	4.2(-2)	21	66SE0925
62	SM	150	1.194	2+	0.859	E0+E2	RHO	4.7(-2)		68LU0074
62	SM	150	1.255	0+						72DE0385
62	SM	150	1.256	0+	1.256	E0				68LU0074
62	SM	150	1.256	0+	1.256	E0	X	>= 1.1(-1)		63GR0216
62	SM	150	1.256	0+	1.256	E0	B(E0,04-02)/B(E0,04-01)	>= 1.6(+1)		63GR0216
62	SM	150	1.261	0+						70LA0615
62	SM	150	1.28	0+						66MA1000
62	SM	150	1.761	(0+)						70LA0615
62	SM	152	0.685	0+						66BJ0145
62	SM	152	0.688	0+						72DE0385
62	SM	152	0.688	0+						74OE0237
62	SM	152	0.585	0+						75WI0291
62	SM	152	0.684	0+	0.685	E0	RHO	1.9(-1)	4	67YO0189
62	SM	152	0.685	0+	0.685	E0	RHO	2.0(-1)	4	67EW0191
62	SM	152	0.685	0+	0.685	E0	RHO	2.55(-1)	10	71RU0401
62	SM	152	0.685	0+	0.685	E0	RHO	2.60(-1)	20	72RU0545
62	SM	152	0.685	0+	0.685	E0	X	7(-2)	1	69RI1214
62	SM	152	0.685	0+	0.563	E2	BE2	1.8(-1)	2	69FR1047
62	SM	152	0.685	0+	0.563	E2	BE2	1.57(-1)	23	71RU0401
62	SM	152	0.685	0+	0.563	E2	BE2	1.59(-1)	10	72RU0545
62	SM	152	0.694	0+						70LA0615
62	SM	152	0.81	2+	0.81	E2	BE2U	6.1(-2)	14	65YO0273
62	SM	152	0.811	2+	0.811	E2	BE2U	7.0(-2)	16	66SE0925
62	SM	152	0.811	2+	0.811	E2	BE2U	6.5(-2)	25	66GA0794
62	SM	152	0.811	2+	0.811	E2	BE2U	2.3(-2)	5	68VE0489
62	SM	152	0.811	2+	0.811	E2	BE2U	2.28(-2)	16	69FR1047
62	SM	152	0.811	2+	0.686	E0+M1+E2	BE2	2.58(-2)	26	69FR1047
62	SM	152	0.810	2+	0.688	E0+M1+E2	BE2	2.6(-2)	2	71RU0401
62	SM	152	0.810	2+	0.688	E0+E2	QSQ	6.7(0)	7	69RI1214
62	SM	152	0.810	2+	0.6 8	E0+E2	QSQ	6.4(0)	8	69MU0592
62	SM	152	0.811	2+	0.689	E0+M1+E2	Q	2.5(0)	3	72ST0315
62	SM	152	0.811	2+	0.6 9	E0+M1+E2	Q	>= 2.16(0)	<= 2.78(0)	73KA0247
62	SM	152	0.811	2+	0.689	E0+M1+E2	LAMBDA	0(+3)	3	72ST0315
62	SM	152	0.811	2+	0.689	E0+M1+E2	LAMBDA	>= -3.65(+2)	<= 2.90(+2)	73KA0247
62	SM	152	0.810	2+	0.688	E0+E2	RHO	3.4(-1)	5	59SH0518
62	SM	152	0.810	2+	0.688	E0+E2	RHO	>= 2.6(-2)		60LO0624
62	SM	152	0.810	2+	0.6 8	E0+E2	RHO	2.6(-1)	8	67YO0189
62	SM	152	0.810	2+	0.688	E0+M1+E2	RHO	2.3(-1)	5	67EW0191
62	SM	152	0.810	2+	0.688	E0+E2	RHO	2.8(-1)	2	69RI1214
62	SM	152	0.810	2+	0.688	E0+M1+E2	RHO	2.55(-1)	12	72RU0565
62	SM	152	0.811	2+	0.689	E0+M1+E2	E	+6.4(-1)	8	72ST0315
62	SM	152	0.810	2+	0.688	E0+E2	X	> 7(-1)		63LU0062
62	SM	152	0.810	2+	0.688	E0+E2	X	4.5(-1)	5	69RI1214
62	SM	152	0.811	2+	0.689	E0+M1+E2	X	4.1(-1)	5	72ST0315
62	SM	152	1.023	4+	0.657	E0+M1+E2	BE2	3.7(-2)		69FR1047
62	SM	152	1.023	4+	0.657	E0+M1+E2	BE2	2.5(-2)	6	71RU0401
62	SM	152	1.023	4+	0.657	E0+E2	QSQ	7.1(0)	27	69MU0592
62	SM	152	1.023	4+	0.657	E0+E2	RHO	1.9(-1)	7	60LO0624
62	SM	152	1.023	4+	0.657	E0+E2	RHO	1.9(-1)	8	67YO0189
62	SM	152	1.023	4+	0.657	E0+E2	RHO	3.1(-1)	12	69RI1214
62	SM	152	1.023	4+	0.657	E0+M1+E2	RHO	2.61(-1)	36	72RU0565
62	SM	152	1.023	4+	0.657	E0+E2	X	6.6(-1)	21	69RI1214
62	SM	152	1.0828	(0+)						71BA2462
62	SM	152	1.0828	0+						73GA0259
62	SM	152	1.0828	0+						74GU0541
62	SM	152	1.0830	(0+)						75WI0291
62	SM	152	1.087	2+	1.087	E2	BE2U	11.9(-2)	24	66SE0925
62	SM	152	1.087	2+	1.087	E2	BE2U	8.13(-2)	57	68GO0895
62	SM	152	1.087	2+	0.96	E0+E2	BE2	2.8(-2)	10	65YO0273
62	SM	152	1.087	2+	0.964	E0+E2	BE2	4.17(-2)	42	69FR1047
62	SM	152	1.086	2+	0.964	E0+E2	QSQ	6.0(-2)	8	69MU0592
62	SM	152	1.086	2+	0.964	E0+M1+E2	Q	>= -2.15(-1)	<= +3.17(-1)	73KA0247
62	SM	152	1.086	2+	0.964	E0+M1+E2	LAMBDA	>= -1.34(+2)	<= +1.65(+2)	73KA0247
62	SM	152	1.091	0+						66BJ0145
62	SM	152	1.09	2+	1.09	E2	BE2U	6.8(-2)	12	65YO0273
62	SM	152	1.372	4+	1.006	E0+E2	BE2	3.70(-2)	13	69FR1047
62	SM	152	1.372	4+	1.006	E0+E2	QSQ	5.0(-1)	17	69MU0592
62	SM	152	1.662	0+						72DE0385
62	SM	152	1.666	8+	0.541	E0+E2	RHO	2.05(-1)	60	60LO0624
62	SM	152	2.103	10+	0.495	E0+E2	RHO	2.8(-1)	10	60LO0624

62	SM	154	1.096	0+						68VE0489
62	SM	154	1.0998	0+						71DA0172
62	SM	154	1.099	0+						73EL0493
62	SM	154	1.100	0+						65YO0273
62	SM	154	1.117	0+						66BJ0145
62	SM	154	1.178	2+	1.178	E2	BE2U	2.0(-2)	5	68VE0489
62	SM	154	1.18	2+	1.18	E2	BE2U	3.0(-2)	7	65YO0273
62	SM	154	1.202	(0+)						73EL0493
62	SM	154	1.218	0+						66BJ0145
62	SM	154	1.674	(0)						73EL0493
62	SM	156	1.068	0+						66BJ0145
64	GD	146	2.178	0+						69SP0033
64	GD	146	2.179	0+						71SP0063
64	GD	150	1.208	0+						74GR0113
64	GD	150	1.209	0+						73FL0806
64	GD	150	1.2075	0+	1.2075	E0				73VY0043
64	GD	150	1.210	0+						71FL1235
64	GD	150	(1.98)	(0+)						73FL0806
64	GD	152	0.615	0+						73FL0806
64	GD	152	0.615	0+	0.615	E0	IK(E0)/IG(E2)	1.31(-1)	10	71ZO0513
64	GD	152	0.615	0+	0.615	E0	X	5.8(-3)		60TO0389
64	GD	152	0.615	0+	0.615	E0	X	1.05(-2)		61HA1758
64	GD	152	0.615	0+	0.615	E0	X	1.04(-2)		67GR0585
64	GD	152	0.6157	0+	0.6157	E0	X	6.2(-3)	6	70GO0255
64	GD	152	0.615	0+	0.615	E0	X	1.3(-2)	1	71ZO0513
64	GD	152	0.9311	2+	0.5867	E0+M1+E2	IK(E0)/IG(E2)	>= 1.1(-2)	<= 1.2(-2)	70GO0255
64	GD	152	0.931	2+	0.586	E0+E2	IK(E0)/IG(E2)	1.2(-2)	1	71ZO0513
64	GD	152	0.931	2+	0.586	E0+E2	QSQ	4.2(0)	10	69MU0592
64	GD	152	0.931	2+	0.586	E0+M1+E2	Q	>= 3.55(-1)	<= 1.195(0)	72KA0615
64	GD	152	0.931	2+	0.586	E0+M1+E2	LAMBDA	>= -1.38(+2)	<= +2.5(+1)	72KA0615
64	GD	152	0.931	2+	0.586	E0+E2	X	3.4(-2)		60TO0389
64	GD	152	0.931	2+	0.586	E0+E2	X	1(-1)		63LU0042
64	GD	152	0.931	2+	0.586	E0+E2	X	5(-2)		67GR0585
64	GD	152	0.9311	2+	0.5867	E0+M1+E2	X	>= 3.4(-2)	<= 3.8(-2)	70GO0255
64	GD	152	0.931	2+	0.586	E0+E2	X	6.0(-2)	4	71ZO0513
64	GD	152	0.931	2+	0.586	E0+E2	B(E0)/B(E2,22-02)	5.5(-3)		60TO0389
64	GD	152	0.931	2+	0.586	E0+E2	B(E0)/B(E2,22-01)	2.8(0)		67GR0585
64	GD	152	0.931	2+	0.586	E0+E2	B(E0)/B(E2,22-02)	1.5(+2)		67GR0585
64	GD	152	1.048	0+						71FL1235
64	GD	152	1.048	0+						73FL0806
64	GD	152	1.048	0+	1.048	E0				69AD0109
64	GD	152	1.048	0+	1.048	E0	IK(E0)/IG(E2)	1.2(-2)	2	71ZO0513
64	GD	152	1.048	0+	1.048	E0	X	>= 5(-2)		60TO0389
64	GD	152	1.048	0+	1.048	E0	X	6.7(-2)		61HA1758
64	GD	152	1.048	0+	1.048	E0	X	> 6.2(-2)		67GR0585
64	GD	152	1.048	0+	1.048	E0	X	8.7(-2)	15	71ZO0513
64	GD	152	1.048	0+	1.048	E0	B(E0,03-02)/B(E0,03-01)	6.3(+1)		61HA1758
64	GD	152	1.048	0+	1.048	E0	B(E0,03-02)/B(E0,03-01)	5.9(+1)		67GR0585
64	GD	152	1.048	0+	1.048	E0	B(E0,03-02)/B(E2,03-02)	1.5(-2)		67GD0585
64	GD	152	1.048	0+	1.048	E	B(E0)/B(E2,03-22)	1.25(-6)		67GR0585
64	GD	152	1.048	0+	0.4325	E0	IK(E0)/IG(E2)	8.8(0)	24	71ZO0513
64	GD	152	1.048	0+	0.432	E0	B(E0,03-02)/B(E2,03-21)	>= 2(0)		60TO0389
64	GD	152	1.048	0+	0.4325	E0	B(E0)/B(E2,03-22)	1.7(-2)	5	71ZO0513
64	GD	152	1.053	0+						72EL0473
64	GD	152	1.109	2+	0.764	E0+E2	QSQ	2.5(0)	11	69MU0592
64	GD	152	1.282	4+	0.5269	E0+E2	IK(E0)/IG(E2)	7.3(-2)	7	71ZO0513
64	GD	152	1.282	4+	0.5269	E0+E2	X	2.34(-1)	23	71ZO0513
64	GD	152	1.3184	2+	0.9741	E0+E2	IK(E0)/IG(E2)	2.4(-3)	3	71ZO0513
64	GD	152	1.3184	2+	0.9741	E0+E2	X	8.8(-2)	11	71ZO0513
64	GD	152	1.3184	2+	0.3878	E0+E2	IK(E0)/IG(E2)	3.6(-1)	10	71ZO0513
64	GD	152	1.3184	2+	0.3878	E0+E2	X	3.1(-1)	8	71ZO0513
64	GD	152	1.484	(0+)						69AD0109
64	GD	152	1.484	(0+)	1.484	E0				67GR0585
64	GD	152	1.862	2+	0.5437	E0+E2	IK(E0)/IG(E2)	2.6(-1)	5	71ZO0513
64	GD	152	1.862	2+	0.5437	E0+E2	X	9.3(-1)	18	71ZO0513
64	GD	152	2.721	(0+)	2.721	E0				67GR0585
64	GD	154	0.681	0+						71FL1235
64	GD	154	0.681	0+						72EL0473
64	GD	156	0.0867	0+						75SO0365
64	GD	154	0.681	0+	0.6 1	E0	RHO	4.1(-1)	9	67YO0189
64	GD	154	0.681	0+	0.681	E0	RHO	2.86(-1)	26	71RU0401
64	GD	154	0.681	0+	0.681	E0	RHO	3.13(-1)	34	72RU0545
64	GD	154	0.681	0+	0.681	E0	X	1.1(-1)	3	69RI1214
64	GD	154	0.681	0+	0.558	E2	BE2	2.1(-1)	3	71RU0401
64	GD	154	0.681	0+	0.558	E2	BE2	2.38(-1)	35	72RU0545
64	GD	154	0.81	2+	0.81	E2	BE2U	1.2(-1)	8	65YO0273
64	GD	154	0.816	2+	0.693	E0+M1+E2	BE2	4.0(-2)	2	71RU0401
64	GD	154	0.816	2+	0.693		QSQ	9(0)	2	66HA0297

64	GD	154	0.816	2+	0.693	E0+E2	RHO	3.2(-1)	16	66LO0624
64	GD	154	0.816	2+	0.693		RHO	5.0(-1)	9	67YO0189
64	GD	154	0.816	2+	0.693	E0+E2	RHO	4.4(-1)		69RI1214
64	GD	154	0.816	2+	0.693	E0+M1+E2	RHO	2.84(-1)	36	72RU0545
64	GD	154	0.816	2+	0.693	E0+E2	X	> 3(-1)		63LU0042
64	GD	154	0.816	2+	0.693	E0+E2	X	4.5(-1)	4	69RI1214
64	GD	154	0.998	2+	0.998	E2	BE2U	1.16(-1)		67BL0576
64	GD	154	0.996	2+	0.873		QSQ	6(-2)	6	72HA0349
64	GD	154	0.996	2+	0.873	E0+E2	RHO	6.2(-2)	9	71RU0401
64	GD	154	1.00	2+	1.00	E2	BE2U	1.3(-1)	5	65YO0273
64	GD	154	1.00	2+	0.87	E0+E2	BE2	5.5(-2)	30	65YO0273
64	GD	154	1.048	4+	0.676	E0+M1+E2	BE2	3.8(-2)	6	71RU0401
64	GD	154	1.048	4+	0.676	E0+E2	QSQ	> 2(0)		66HA0297
64	GD	154	1.048	4+	0.676		QSQ	1.23(+1)	36	72HA0349
64	GD	154	1.048	4+	0.676	E0+E2	RHO	1.4(-1)	4	66LO0624
64	GD	154	1.048	4+	0.676	E0+E2	RHO	1.6(-1)	6	66LO0624
64	GD	154	1.048	4+	0.676		RHO	3.3(-1)	18	67YO0189
64	GD	154	1.048	4+	0.676	E0+M1+E2	RHO	2.78(-1)	34	72RU0545
64	GD	154	1.048	4+	0.676	E0+E2	X	5.8(-1)	18	69RI1214
64	GD	154	1.0474	4-	0.6764	E0+M1+E2	X	3.4(-1)	7	74GO2460
64	GD	154	1.7140	0+						68HA0686
64	GD	154	1.265	4+	0.894	E0+E2	RHO	7(-2)	+3-4	71RU0401
64	GD	154	1.293	(U+)						68ME1089
64	GD	154	1.293	0+						73FL0806
64	GD	154	1.2956	0+						75SO0365
64	GD	154	1.368	6+	0.650	E0+M1+E2	BE2	3.3(-2)	10	71RU0401
64	GD	154	1.368	6+	0.650	E0+E2	RHO	2.7(-1)	8	66LO0624
64	GD	154	1.368	6+	0.650	E0+E2	RHO	2.2(-1)	13	66LO0624
64	GD	154	1.368	6+	0.650	E0+M1+E2	RHO	2.56(-1)	44	72RU0545
64	GD	154	1.3656	6+	0.6486	E0+M1+E2	X	3.4(-1)	8	74GO2460
64	GD	154	1.7562	8+	0.6119	E0+M1+E2	X	4.8(-1)	+18-11	74GO2460
64	GD	154	1.760	8+	0.614	E0+E2	RHO	>= 2.0(-1)		66LO0624
64	GD	154	2.1936	10+	0.5573	E0+M1+E2	X	2.7(-1)	+16-12	74GO2460
64	GD	156	1.049	0+						65YO0273
64	GD	156	1.049	0+						73FL0806
64	GD	156	1.0495	0+						74KL1451
64	GD	156	1.049	0+						74GU0943
64	GD	156	1.049	0+	0.960	E2	BE2	2.9(-2)	4	71RU0401
64	GD	156	1.050	0+						72EL0473
64	GD	156	1.050	0+	1.050	E0	RHO	4.1(-1)	9	67EW0191
64	GD	156	1.050	0+	1.050	E0	RHO	4.1(-1)	5	69BA0147
64	GD	156	1.050	0+	1.050	E0	RHO	1.79(-1)	17	71RU0401
64	GD	156	1.050	0+	1.050	E0	X	1(-1)		69BA0147
64	GD	156	1.130	2+	1.130	E2	BE2U	7(-2)	3	65YO0273
64	GD	156	1.130	2+	1.040	E0+M1+E2	BE2	1.03(-2)	13	71RU0401
64	GD	156	1.130	2+	1.040		QSQ	5.9(0)	3	72HA0349
64	GD	156	1.130	2+	1.040	E0+M1+E2	RHO	4.4(-1)	12	67EW0191
64	GD	156	1.130	2+	1.040	E0+E2	X	> 4(-1)		63LU0042
64	GD	156	1.15	2+	1.15	E2	BE2U	6(-2)	2	65YO0273
64	GD	156	1.155	2+	1.155	E2	BE2U	9.8(-2)		67BL0576
64	GD	156	1.15	2+	1.06	E2	BE2	2.0(-2)	9	65YO0273
64	GD	156	1.154	2+	1.065		QSQ	1.0(-1)	4	72HA0349
64	GD	156	1.168	0+						71FL1235
64	GD	156	1.168	0+						73FL0806
64	GD	156	1.1681	0+						74KL1451
64	GD	156	1.168	0+	1.168	E0				69NI0169
64	GD	156	1.168	0+	1.168	E0	X	< 1.8(-2)		69BA0147
64	GD	156	1.172	0+						74GU0943
64	GD	156	1.298	4+	1.009		QSQ	6.0(0)	20	72HA0349
64	GD	156	1.715	0+						74GU0943
64	GD	156	1.74	(0+)						73FL0806
64	GD	156	1.989	(U+)						74GU0943
64	GD	158	1.196	0+						73FL0806
64	GD	158	1.1960	0+						73WH0410
64	GD	158	1.1960	0+						75KL1966
64	GD	158	1.1956	0+						75RL0185
64	GD	158	1.449	0+						67BL0576
64	GD	158	1.452	0+						70BE0114
64	GD	158	1.452	0+						71FL1235
64	GD	158	1.454	0+						72EL0473
64	GD	158	1.4524	0+						73WH0410
64	GD	158	1.4516	0+						75KL1966
64	GD	160	1.381	0+						76EL1866
64	GD	160	1.466	(0+)						76EL1866
64	GD	160	1.599	(0+)						76EL1866
66	DY	156	0.674	0+						68GR0385
66	DY	156	0.676	0+	0.676	E0	X	>= 4(-2)		68AB0032
66	DY	156	0.829	2+	0.691	E0+E2	X	1.5(-1)	7	68AB0032

66	DY	156	1.088	4+	0.682	E0+E2	X	2,0(-1)	7	68AB0032
66	DY	156	1.437	6+	0.666	E0+E2	X	1,2(-1)	6	68AB0032
66	DY	158	0.986	0+	0.984	E0				68AB0749
66	DY	158	0.991	0+						72MA0358
66	DY	158	0.9911	0+						75RU0974
66	DY	158	0.991	0+	0.991	E0	RHO	> 6.3(-2)		66GR0001
66	DY	158	0.991	0+	0.991	E0	RHO	> 7.7(-2)		66GR0001
66	DY	158	0.991	0+	0.991	E0	X	1,0(-1)		66GR0001
66	DY	158	0.991	0+	0.991	E0	X	1,5(-1)		66GR0001
66	DY	158	0.990	0+	0.990	E0	X	8(-2)	3	73BU0084
66	DY	158	0.9904	0+	0.9904	E0	X	8(-2)	4	75AL0458
66	DY	158	1.0854	2+	0.8960	E0+E2	X	> 5(-2)		75AL0458
66	DY	158	1.2803	4+	0.9629	E0+E2	X	7(-2)	3	75AL0458
66	DY	158	1.665	0+	1.655	(E0)				68AB0749
66	DY	160	0.966	2+	0.966	E2	BE2U	6,9(-2)	20	65YO0273
66	DY	160	0.9661	2+	0.9661	E2	BE2U	1,05(-1)	8	74OE0543
66	DY	160	0.966	2+	0.879	E0+M1+E2	BE2	2,6(-2)	13	65YO0273
66	DY	160	0.966	2+	0,879	E0+M1+E2	IK(E0)/IG(E2)	<= 1,0(-2)		73GA2080
66	DY	160	0.966	2+	0.879	E0+M1+E2	Q	-3(-2)	10	72ZU0237
66	DY	160	0.966	2+	0.879	E0+M1+E2	Q	-3(-2)	9	73ZA0581
66	DY	160	0.966	2+	0.879	E0+M1+E2	LAMBDA	0		72ZU0237
66	DY	160	0.966	2+	0.879	E0+M1+E2	LAMBDA	0		73ZA0581
66	DY	160	0.966	2+	0.879	E0+M1+E2	RHO	-1,1(-2)	37	72ZU0237
66	DY	160	0.966	2+	0.879	E0+M1+E2	RHO	-3(-3)	9	73ZA0581
66	DY	160	0.966	2+	0.879	E0+M1+E2	X	8,3(-4)	500	72ZU0237
66	DY	160	1.263	0+	1.263	E0	X	>= 3(-1)		69GR0635
66	DY	160	1.275	0+						72MA0358
66	DY	160	1.280	0+	1.280	E0	X	2,7(-1)	8	74AL0066
66	DY	160	1.2800	0+	1.2800	E0	X	2,6(-1)	8	74AL2103
66	DY	160	1.3496	2+	1.263	E0+E2	B(E0)/SB(E2)	2,2(-1)	7	74AL2103
66	DY	160	1.3496	2+	1.2627	E0+E2	B(E0)/SB(E2)	2,3(-1)	7	74AL0066
66	DY	160	1.9532	0+	1.9532	E0				74AL2103
66	DY	160	1.953	0+	1.953	E0	X	6,5(-1)		69GR0635
66	DY	162	0.8882	2+	0.8882	E2	BE2U	1,05(-1)	8	74OE0543
66	DY	162	1.127	0+						67BA1011
66	DY	162	1.4003	0+						73BA0059
66	DY	162	1.400	0+	1.400	E0	RHO	< 4(-2)		75ED0886
66	DY	162	1.400	0+	1.4 0	E0	RHO	< 4(-2)		75ED0103
66	DY	162	1.400	0+	1.400	E0	X	4,8(-2)	4	75ED0886
66	DY	162	1.400	0+	1.400	E0	X	4,8(-2)	4	75ED0103
66	DY	162	1.670	0+						72MA0358
66	DY	164	0.7618	2+	0.7618	E2	BE2U	1.01	9	74OE0543
68	ER	158	0.8064	0+	0.8064	E0	X	3,6(-2)	7	75AG0239
68	ER	158	0.9890	2+	0.7968	E0+M1+E2	B(E0)/B(E2,22-41)	7,8(-2)	15	75AG0239
68	ER	158	0.9890	2+	0.7968	E0+M1+E2	B(E0)/B(E2,22-01)	6,4(-2)	10	75AG0239
68	ER	158	1.257	4+	0.7298	E0+M1+E2	B(E0)/B(E2,42-21)	5,0(-2)	30	75AG0239
68	ER	158	1.257	4+	0.7298	E0+M1+E2	B(E0)/B(E2,42-61)	1,30(-1)	70	75AG0239
68	ER	158	1.3869	(0+)						75AG0239
68	ER	160	0.894	0+						73AG0086
68	ER	162	1.067	0+						73BA0090
68	ER	162	1.077	0+						70AB0117
68	ER	162	1.081	0+						68TJ0385
68	ER	162	1.0871	0+	1.0871	E0	X	3,0(-1)	9	74DE0349
68	ER	162	1.1710	2+	1.0690	E0+M1+E2	B(E0)/B(E2,22-41)	4,1(-1)	7	74DE0349
68	ER	162	1.4204	(0+)	1.4204	E0	X	8,1(-2)	74	74DE0349
68	ER	162	1.4299	2+	1.3281	E0+M1+E2	B(E0)/B(E2,23-41)	4,7(-2)	88	74DE0349
68	ER	162	1.5004	2+	1.3982	E0+M1+E2	B(E0)/B(E2,24-41)	1,46(-1)	88	74DE0349
68	ER	162	2.1142	(0+)						74DE0144
68	ER	164	1.238	0+	1.238	E0	RHO	> 9(-3)		66GR0001
68	ER	164	1.238	0+	1.238	E0	RHO	> 2(-2)		66GR0001
68	ER	164	1.238	0+	1.238	E0	X	4,7(-2)		66GR0001
68	ER	164	1.238	0+	1.238	E0	X	> 1(-2)		66GR0001
68	ER	164	1.248	0+						72MA0358
68	ER	164	1.2460	0+	1.2460	E0				71DE0577
68	ER	164	1.246	0+	1.246	E0	X	1,5(-1)	3	67VR0604
68	ER	164	1.2460	0+	1.246	E0	X	1,4(-1)	2	74DE0144
68	ER	164	1.3146	2+	1.323	E0+M1+E2	X	2,4(-1)	4	74DE0144
68	ER	164	1.698	0+	1.698	E0	X	3,9(-1)	6	67VR0604
68	ER	164	1.7659	0+	1.7659	E0				71DE0577
68	ER	164	1.766	0+	1.766	E0	X	7,8(-1)	11	67VR0604
68	ER	164	1.7659	0+	1.765	E0	X	6,3(-1)	10	74DE0144
68	ER	164	1.7885	2+	1.697	E0+M1+E2	X	3,0(-1)	3	74DE0144
68	ER	164	1.8334	2+	1.742	E0+M1+E2	X	1,1(-1)	2	74DE0144
68	ER	164	1.9114	2+	1.820	E0+M1+E2	X	8,9(-1)		74DE0144
68	ER	164	1.9545	2+	1.863	E0+M1+E2	X	1,3(-1)	6	74DE0144
68	ER	164	2.1725	0+	2.1725	E0				71DE0577
68	ER	164	2.170	0+	2.170	E0	X	1,76(0)	25	67VR0604
68	ER	164	2.1725	0+	2.172	E0	X	8,8(-1)	18	74DE0144

68	ER	166	2.170	0+	0.929	E0				67VR0604
68	ER	166	2.185	0+	2.185	E0	X	5.56(0)	184	67VR0606
68	ER	166	2.2785	2+	2.187	E0+M1+E2	X	5.2(-2)	10	76DE0146
68	ER	166	1.460	0+						72MA0358
68	ER	166	1.460	0+	1.460	E0	X	5(-2)	1	71BE0770
68	ER	166	1.460	0+	1.460	E0	X	3.0(-2)	15	76GR0128
68	ER	166	1.4600	0+	1.4600	E0	X	3.0(-2)	15	76GR2499
68	ER	166	2.187	0+						72MA0358
68	ER	168	1.217	0+						70MI0161
68	ER	168	1.215	0+	1.215	E0				70PR0129
68	ER	170	0.880	(0+)						68TJ0385
68	ER	170	0.865	0+						72D00600
70	YB	164	0.9759	0+						75HU1154
70	YB	166	1.150	0+						67BU0003
70	YB	168	1.156	0+	1.156	E0	RHO	> 8.6(-3)		66GR0001
70	YB	168	1.156	0+	1.156	E0	RHO	> 7.1(-3)		66GR0001
70	YB	168	1.156	0+	1.156	E0	X	1.3(-1)		66GR0001
70	YB	168	1.156	0+	1.156	E0	X	9.5(-2)		66GR0001
70	YB	168	1.197	0+	1.197	E0	RHO	< 1.3(-2)		66GR0001
70	YB	168	1.197	0+	1.197	E0	RHO	> 3.5(-2)	< 9.1(-2)	67KE0666
70	YB	168	1.197	0+	1.197	E0	X	> 1.1(0)		66GR0001
70	YB	168	1.197	0+	1.197	E0	X	5.1(-1)		66GR0001
70	YB	168	1.543	0+	1.543	E0	RHO	> 6.3(-3)		66GR0001
70	YB	168	1.543	0+	1.543	E0	RHO	> 5.5(-3)		67KE0666
70	YB	168	1.543	0+	1.543	E0	X	> 3.1(0)		66GR0001
70	YB	168	1.543	0+	1.543	E0	X	7.6(-1)		66GR0001
70	YB	170	1.069	0+	1.069	E0	RHO	<= 9(-3)		72CA1040
70	YB	170	1.0694	0+	1.0696	E0	RHO	<= 7.1(-3)		73DZ0002
70	YB	170	1.069	0+	1.069	E0	X	>= 2.7(-3)		69BO4773
70	YB	170	1.069	0+	1.069	E0	X	4.9(-3)	5	72CA1040
70	YB	170	1.0694	0+	1.0694	E0	X	2.7(-3)	5	73DZ0002
70	YB	170	1.069	0+	0.985	E2	BE2	< 3.0(-3)		72CA1040
70	YB	170	1.071	0+						70000270
70	YB	170	1.1386	2+	1.0543	E0+E2	RHO	< 2.2(-2)		73DZ0002
70	YB	170	1.1386	2+	1.0543	E0+E2	B(E0)/B(E2,22-01)	< 1.0(-2)		73DZ0002
70	YB	170	1.146	2+	1.146	E2	BE2U	4.40(-2)		72CA1040
70	YB	170	1.146	2+	1.061	E0+E2	RHO	<= 1(-2)		72CA1040
70	YB	170	1.1456	2+	1.0616	E0+E2	RHO	< 2.6(-2)		73DZ0002
70	YB	170	1.146	2+	1.061	E0+E2	X	<= 1.7(-3)		72CA1040
70	YB	170	1.146	2+	1.061	E0+E2	B(E0)/B(E2,23-01)	<= 2.1(-3)		72CA1040
70	YB	170	1.146	2+	1.061	E0+E2	B(E0)/B(E2,23-41)	<= 3.2(-2)		72CA1040
70	YB	170	1.1456	2+	1.0616	E0+E2	B(E0)/B(E2,23-01)	< 1.6(-2)		73DZ0002
70	YB	170	1.229	0+	1.229	E0	RHO	1.3(-1)	3	72CA1040
70	YB	170	1.229	0+	1.229	E0	RHO	1.4(-1)	3	73DZ0100
70	YB	170	1.229	0+	1.229	E0	X	1.29(-1)	16	68BA0730
70	YB	170	1.229	0+	1.229	E0	X	9.6(-2)	20	69BO4773
70	YB	170	1.229	0+	1.229	E0	X	8.0(-2)	9	72CA1040
70	YB	170	1.229	0+	1.229	E0	X	8.7(-2)	8	73DZ0100
70	YB	170	1.229	0+	1.145	E2	BE2	4.20(-2)	80	72CA1040
70	YB	170	1.306	2+	1.222	E0+E2	RHO	1.4(-1)	5	73DZ0100
70	YB	170	1.306	2+	1.222	E0+E2	X	1.00(-1)	12	72CA1040
70	YB	170	1.306	2+	1.222	E0+E2	B(E0)/B(E2,24-01)	>= 8.5(-2)	<= 14(-2)	72CA1040
70	YB	170	1.306	2+	1.222	E0+E2	B(E0)/B(E2,24-41)	>= 4.1(-2)	<= 6.8(-2)	72CA1040
70	YB	170	1.306	2+	1.222	E0+E2	B(E0)/B(E2,24-01)	4.5(-1)	14	73DZ0100
70	YB	170	1.480	0+	1.480	E0	X	9.4(-1)	7	68BA0730
70	YB	170	1.480	0+	1.480	E0	X	1.02(0)	10	69BO4773
70	YB	170	1.480	0+	1.480	E0	X	9.4(-1)	11	72CA1040
70	YB	170	1.480	0+	1.480	E0	X	9.5(-1)	6	73DZ0100
70	YB	170	1.534	2+	1.450	E0+E2	X	6.4(-1)	8	72CA1040
70	YB	170	1.534	2+	1.450	E0+E2	B(E0)/B(E2,25-01)	>= 8.6(-1)	<= 1.2(0)	72CA1040
70	YB	170	1.534	2+	1.450	E0+E2	B(E0)/B(E2,25-41)	>= 5.5(-1)	<= 7.7(-1)	72CA1040
70	YB	170	1.534	2+	1.450	E0+E2	B(E0)/B(E2,25-22)	3.1(-3)	3	72CA1040
70	YB	170	1.534	2+	1.450	E0+E2	B(E0)/B(E2,25-23)	3.9(-3)	5	72CA1040
70	YB	170	1.534	2+	1.450	E0+E2	B(E0)/B(E2,25-01)	5.8(0)	3	73DZ0100
70	YB	170	1.534	2+	0.3960	E0+E2	B(E0)/B(E2,25-22)	6.1(-2)	18	73DZ0002
70	YB	170	1.534	2+	0.3889	E0+E2	B(E0)/B(E2,25-23)	5.3(-2)	21	73DZ0002
70	YB	170	1.566	0+	1.566	E0	X	5.1(-1)	15	69BO4773
70	YB	170	1.566	0+	1.566	E0	X	9.3(-1)	14	69BO4773
70	YB	170	1.566	0+	1.566	E0	X	5.4(-1)	9	72CA1040
70	YB	170	1.566	0+	1.566	E0	X	6.6(-1)	5	73DZ0100
70	YB	170	1.634	2+	1.551	E0+E2	X	1.01(-1)	13	72CA1040
70	YB	170	1.634	2+	1.551	E0+E2	B(E0)/B(E2,26-01)	>= 3.0(-1)	<= 5.0(-1)	72CA1040
70	YB	170	1.634	2+	1.550	E0+E2	B(E0)/B(E2,26-01)	1.70(0)	24	73DZ0100
70	YB	172	1.045	0+						67BU0003
70	YB	172	1.043	0+						67OT1485
70	YB	172	1.043	0+						70GR0213
70	YB	172	1.041	0+						70000270
70	YB	172	1.0429	0+						70GR0549

70	YB	172	1.043	0+						71RI0131
70	YB	172	1.0429	0+						74RE0365
70	YB	172	1.405	0+						70GR0213
70	YB	172	1.4042	0+						70GR0549
70	YB	172	1.794	0+						70GR0213
70	YB	172	1.7941	0+						70GR0549
70	YB	172	1.894	0+						70GR0213
70	YB	172	1.8944	0+						70GR0549
70	YB	174	1.149	0+						69DA0509
70	YB	174	1.320	0+		E2	BE2U	<= 1.5(-2)		65J00073
70	YB	174	1.490	0+						69DA0509
70	YB	174	1.493	0+						70000270
70	YB	174	1.490	0+						73CA1035
70	YB	174	1.493	0+						73CA0038
70	YB	174	1.888	0+						73CA1035
70	YB	174	1.895	0+						69DA0509
70	YB	174	1.890	0+						70000270
70	YB	174	2.106	(0+)						70000270
70	YB	174	2.1015	0+						73CA1035
72	HF	172	0.871	0+	0.871	E0	X	1.2(-1)	2	72CA0056
72	HF	172	0.8715	0+	0.8713	E0	X	1.21(-1)	18	73CA0121
72	HF	172	0.9525	2+	0.8572	E0+M1+E2	B(E0)/B(E2,22-41)	1.56(-1)	21	73CA0121
72	HF	172	1.1297	4+	0.8264	E0+M1+E2	B(E0)/B(E2,42-61)	1.54(-1)	32	73CA0121
72	HF	172	1.296	0+	1.296	E0	X	1.9(+1)	7	72CA0056
72	HF	172	1.2956	0+	1.2956	E0	X	1.9(+1)	4	73CA0121
72	HF	172	1.336	0+	1.336	E0	X	6.0(0)	4	72CA0056
72	HF	172	1.3357	0+	1.3357	E0	X	6.0(0)	7	73CA0121
72	HF	172	1.5345	4+	1.2252	E0+(M1+E2)	B(E0)/B(E2,44-61)	6.0(0)	7	73CA0121
72	HF	174	0.827	0+	0.827	E0	RHO	> 3(-1)		69GR0001
72	HF	174	0.827	0+	0.827	E0	RHO	> 3.1(-1)		69GR0001
72	HF	174	0.828	0+	0.828	E0	RHO	2.20(-1)	25	71EJ0449
72	HF	174	0.828	0+	0.828	E0	E	4.35(-1)	60	71EJ0449
72	HF	174	0.827	0+	0.827	E0	X	1.7(-1)		66GR0001
72	HF	174	0.827	0+	0.827	E0	X	1.9(-1)		66GR0001
72	HF	174	0.8283	0+	0.8280	E0	X	>= 7.1(-1)		75CA0013
72	HF	174	0.901	2+	0.901	E2	BE2U	6.2(-2)	10	71EJ0449
72	HF	174	0.901	2+	0.809	E0+E2	E	8.3(-1)	8	71EJ0449
72	HF	174	0.9003	2+	0.8093	E0+M1+E2	B(E0)/B(E2,22-01)	8.6(-2)	16	75CA0013
72	HF	174	0.9003	2+	0.8093	E0+M1+E2	B(E0)/B(E2,22-41)	8.6(-2)	16	75CA0013
72	HF	174	1.063	4+	0.765	E0+E2	E	7.6(-1)	10	71EJ0449
72	HF	174	1.0622	4+	0.7648	E0+M1+E2	B(E0)/B(E2,42-21)	1.04(-1)	17	75CA0013
72	HF	174	1.0622	4+	0.7648	E0+M1+E2	B(E0)/B(E2,42-61)	1.04(-1)	17	75CA0013
72	HF	174	1.229	2+	1.229	E2	BE2U	1.38(-1)	20	71EJ0449
72	HF	174	1.241	0+						66GR0001
72	HF	174	1.308	6+	0.699	E0+E2	E	8.5(-1)	12	71EJ0449
72	HF	176	1.150	0+	1.150	E0	E	4.6(-1)		73HA0321
72	HF	176	1.150	0+	1.150	E0	X	2.9(-1)	11	71BR0707
72	HF	176	1.150	0+	1.150	E0	X	1.7(-1)	3	71BE1294
72	HF	176	1.150	0+	1.150	E0	X	2.1(-1)	8	73KH0289
72	HF	176	1.227	2+	1.227	E2	BE2U	2.5(-2)	5	73HA0321
72	HF	176	1.226	2+	1.136	E0+E2	X	9(-1)	3	71BR0707
72	HF	176	1.226	2+	1.138	E0+E2	X	1.9(-1)	4	71BE1294
72	HF	176	1.2263	2+	1.1381	E0+M1+E2	X	8(-2)	5	73KH0289
72	HF	176	1.226	2+	1.138	E0+E2	B(E0)/B(E2,22-01)	APR1.8(0)		71BR0707
72	HF	176	1.226	2+	1.138	E0+E2	B(E0)/B(E2,22-01)	3.5(-1)	7	71BE1294
72	HF	176	1.226	2+	1.136	E0+E2	B(E0)/B(E2,22-41)	1.5(-1)	3	71BE1294
72	HF	176	1.293	0+	1.293	E0	X	7(0)	3	71BR0707
72	HF	176	1.293	0+	1.293	E0	X	8.3(0)	13	71BE1294
72	HF	176	1.2929	0+	1.2929	E0	X	8.3(0)	10	73KH0289
72	HF	176	1.341	2+	1.341	E2	BE2U	7.5(-2)	6	73HA0321
72	HF	176	1.379	2+	1.291	E0+E2	X	1.6(-1)		71BE1294
72	HF	176	1.379	2+	1.290	E0+E2	X	1.0(0)		71BR0707
72	HF	176	1.379	2+	1.291	E0+E2	B(E0)/B(E2,23-01)	5.6(0)		71BE1294
72	HF	176	1.379	2+	1.291	E0+E2	B(E0)/B(E2,23-41)	1.1(+1)		71BE1294
72	HF	176	1.379	2+	1.290	E0+E2	B(E0)/B(E2,23-01)	<= 3.5(+1)		71BR0707
72	HF	176	1.3902	4+	1.0999	E0+M1+E2	X	1.0(-1)	3	73KH0289
72	HF	176	1.6286	6+	1.0317	E0+M1+E2	X	1.0(-1)	2	73KH0289
72	HF	176	1.9327	8+	0.9346	E0+M1+E2	X	9(-2)	4	73KH0289
72	HF	176	2.2950	10+	0.8138	E0+M1+E2	X	4(-2)	2	73KH0289
72	HF	178	1.199	0+						66HU0106
72	HF	178	1.199	0+						71GU0270
72	HF	178	1.199	0+	1.199	E0				65SM1691
72	HF	178	1.199	0+	1.199	E0				72LI0252
72	HF	178	1.199	0+	1.199	E0	OSO	2.27(+1)	15	72HA0349
72	HF	178	1.199	0+	1.199	E0	X	1.8(-1)	4	61GA1590
72	HF	178	1.199	0+	1.199	E0	X	1.8(-1)	4	67NI0385
72	HF	178	1.198	0+	1.198	E0	X	2.0(-1)	6	71F00353
72	HF	178	1.199	0+	1.199	E0	X	1.55(-1)	11	72GI0321

72	HF	178	1.1992	0+	1.1992	E0	X	1,60(-1)	9	74HA2540
72	HF	178	1.237	0+						63SM1691
72	HF	178	1.276	2+	1.183	E0+M1+E2				72LI0252
72	HF	178	1.276	2+	1.183	E0+M1+E2	X	1,4(-1)	4	67NI0385
72	HF	178	1.2766	2+	1.1834	E0+M1+E2	X	1,56(0)	15	74HA2540
72	HF	178	1.276	2+	1.183	E0+M1+E2	B(E0)/B(E2,23-41)	2,6(-1)	4	71FO0353
72	HF	178	1.276	2+	1.183	E0+M1+E2	B(E0)/B(E2,23-01)	1,35(0)	18	72GI0321
72	HF	178	1.431	0+						63SM1691
72	HF	178	1.434	0+						68HU0106
72	HF	178	1.434	0+						71GU0270
72	HF	178	1.434	0+	1.434	E0				72LI0252
72	HF	178	1.434	0+	1.434	E0	X	1,0(-1)	4	67NI0385
72	HF	178	1.434	0+	1.434	E0	X	1,1(-1)	3	71FO0353
72	HF	178	1.434	0+	1.434	E0	X	1,15(-1)	7	72GI0321
72	HF	178	1.4340	0+	1.4340	E0	X	6,6(-2)	7	74HA2540
72	HF	178	1.440	0+						61GA1590
72	HF	178	1.444	0+						68HU0106
72	HF	178	1.443	0+						71GU0270
72	HF	178	1.444	0+	1.444	E0				71FO0353
72	HF	178	1.444	0+	1.444	E0				72LI0252
72	HF	178	1.444	0+	1.444	E0	X	5,3(-1)	16	61GA1590
72	HF	178	1.444	0+	1.444	E0	X	3,8(-1)	8	67NI0385
72	HF	178	1.444	0+	1.444	E0	X	5,2(-1)	3	72GI0321
72	HF	178	1.4437	0+	1.4437	E0	X	5,0(-1)	2	74HA2540
72	HF	178	1.651	4+	1.145	E0+M1+E2	B(E0)/B(E2,43-61)	1,5(-1)	7	71FO0353
72	HF	178	1.496	2+	1.403	E0+M1+E2	QSQ	8,0(0)	6	73HA0349
72	HF	178	1.496	2+	1.403	E0+M1+E2	X	1,2(-1)	5	67NI0385
72	HF	178	1.4965	2+	1.4029	E0+M1+E2	X	7,6(-1)	4	74HA2540
72	HF	178	1.496	2+	1.403	E0+M1+E2	B(E0)/B(E2,24-41)	2,1(-1)	9	71FO0353
72	HF	178	1.496	2+	1.403	E0+M1+E2	B(E0)/B(E2,23-01)	6,7(-1)	7	72GI0321
72	HF	178	1.636	4+	1.329	E0+M1+E2	B(E0)/B(E2,44-61)	< 2,0(-1)		71FO0353
72	HF	178	1.772	0+						72LI0252
72	HF	178	1.772	0+	1.772	E0	X	5,7(-1)	16	74HA2540
72	HF	180	1.2005	2+	1.2005	E2	BE2	1,10(-1)	11	74VA0442
74	W	180	0.908	0+	0.908	E0	RHO	2(-2)		66GR0001
74	W	180	0.908	0+	0.908	E0	RHO	3,5(-2)		66GR0001
74	W	180	0.908	0+	0.908	E0	X	2(-1)		66GR0001
74	W	180	0.908	0+	0.908	E0	X	6,1(-2)		66GR0001
74	W	182	1.138	0+						71GU0273
74	W	182	1.137	0+						72MA1380
74	W	182	1.137	0+						73KL0093
74	W	182	1.1367	0+						75DE0125
74	W	182	1.222	2+	1.222	E2	BE2	5,1(-2)		58AL1325
74	W	182	1.222	2+	1.222	E2	BE2	2,48(-2)	12	69MI1204
74	W	182	1.222	2+	1.122	E0+E2	BE2	4,3(-2)		58AL1325
74	W	182	1.222	2+	1.122	E0+E2	BE2	4,7(-2)	3	69MI1204
74	W	182	1.221	2+	1.121	E2+M1	BE2	4,7(-2)	3	71MI0001
74	W	182	1.222	2+	1.121	E0+M1+E2	Q	1,6(-1)	9	75WE0887
74	W	182	1.222	2+	1.121	E0+M1+E2	RHO	1,9(-3)	11	75WE0887
74	W	182	1.222	2+	1.122	E0+E2	X	3,2(-2)		64DA0529
74	W	182	1.222	2+	1.121	E0+M1+E2	X	1,6(-3)	11	75WE0887
74	W	182	1.257	2+	1.257	E2	BE2U	2,3(-2)	2	69MI1204
74	W	182	1.257	2+	1.157	E0+E2	BE2	4,4(-3)	7	69MI1204
74	W	182	1.257	2+	1.157	E2+M1	BE2	5,7(-3)	6	71MI0001
74	W	182	1.257	2+	1.157	E0+E2	QSQ	1,12(0)	17	68VO0221
74	W	182	1.2575	2+	1.1573	E0+E2	QSQ	1,1(0)	7	75FE0147
74	W	182	1.257	2+	1.157	E0+M1+E2	Q	1,13(0)	13	75WE0887
74	W	182	1.257	2+	1.157	E0+M1+E2	RHO	4,9(-2)	6	75WE0887
74	W	182	1.2575	2+	1.1573	E0+E2	X	7(-2)	4	75FE0147
74	W	182	1.257	2+	1.157	E0+M1+E2	X	9,0(-2)	24	75WE0887
74	W	182	1.257	2+	1.157	E0+E2	B(E0)/SB(E2)	3,7(-3)	4	69GA0673
74	W	182	1.4429	4+	1.1136	E0+E2	QSQ	<= 4,5(-1)		75FE0147
74	W	182	1.442	4+	1.113	E0+M1+E2	ρ	4,1(-1)	9	75WE0887
74	W	182	1.442	4+	1.113	E0+M1+E2	X	1,1(-2)	5	75WE0887
74	W	182	1.538	0+	1.438	E0+E2	B(E0)/SB(E2)	> 1(0)		69GA0673
74	W	182	1.7568	6+	1.0765	E0+E2	QSQ	>= 2,3(-1)	<= 3,7(-1)	75FE0147
74	W	182	2.2395	0+						75DE0125
74	W	182	2.240	0+						73KL0093
74	W	182	2.240	0+						74DE0146
74	W	182	2.284	0+						73KL0093
74	W	184	0.904	2+	0.904	E2	BE2	3,8(-2)		58AL1325
74	W	184	0.904	2+	0.904	E2	BE2	3,6(-8)	10	61GO1276
74	W	184	0.904	2+	0.904	E2	BE2	2,46(-2)	12	69MI1204
74	W	184	0.904	2+	0.793	E0+M1+E2	BE2	5,5(-2)	14	58AL1325
74	W	184	0.904	2+	0.793	E0+M1+E2	BE2	6,5(-2)	23	61GO1276
74	W	184	0.904	2+	0.793	E0+M1+E2	BE2	4.5(-2)	14	69MI1204
74	W	184	0.903	2+	0.793	E2+M1	BE2	4,5(-2)	3	71MI0001
74	W	184	0.904	2+	0.793	E0+M1+E2	Q	<= 3,7(-1)		69ZU0313

74	W	184	0.904	2+	0.793	E0+M1+E2	Q	+3.0(-1)	+8-30	70DO0353
74	W	184	0.904	2+	0.793	E0+M1+E2	Q	-1.6(-1)	+40-12	70DO0353
74	W	184	0.904	2+	0.792	E0+M1+E2	Q	<= 2.3(-1)		70AG2121
74	W	184	0.904	2+	0.792	E0+M1+E2	Q	<= 2.4(-1)		70AG2121
74	W	184	0.904	2+	0.793	E0+M1+E2	LAMBDA	>= -8.2(+1)	<= +1.56(+2)	69ZU0313
74	W	184	0.904	2+	0.793	E0+M1+E2	LAMBDA	+1.3(+1)	+40-80	70DO0353
74	W	184	0.904	2+	0.793	E0+M1+E2	LAMBDA	-7.7(+1)	+40-36	70DO0353
74	W	184	0.904	2+	0.793	E0+M1+E2	RHO	<= 3.5(-2)		69ZU0313
74	W	184	0.904	2+	0.792	E0+M1+E2	RHO	<= 2.1(-2)		70AG2121
74	W	184	0.904	2+	0.792	E0+M1+E2	RHO	<= 2.3(-2)		70AG2121
74	W	184	0.904	2+	0.793	E0+M1+E2	X	1.5(-2)		64DA0529
74	W	184	0.904	2+	0.793	E0+M1+E2	X	<= 4.5(-3)		69ZU0313
74	W	184	0.904	2+	0.792	E0+M1+E2	X	<= 1.7(-3)		70AG2121
74	W	184	0.904	2+	0.792	E0+M1+E2	X	<= 1.9(-3)		70AG2121
74	W	184	1.004	0+						66FA1495
74	W	184	1.003	0+						69SA0581
74	W	184	1.003	0+						71GU0273
74	W	184	1.009	0+						72MA1380
74	W	184	1.0023	0+						73CA0419
74	W	184	1.002	0+						73CA0489
74	W	184	1.002	0+						73CA0037
74	W	184	1.0025	0+						74GR0066
74	W	184	1.0028	0+						75BU1401
74	W	184	1.0041	0+	1.0041	E0				75KL0144
74	W	184	1.0041	0+	1.0041	E0	RHO	1.9(-2)	4	75FE0230
74	W	184	1.0041	0+	1.0041	E0	X	6(-3)	3	75FE0230
74	W	184	1.1213	2+	1.0102	E0+M1+E2	OSQ	1.9		75FE0230
74	W	184	1.1213	2+	1.0102	E0+M1+E2	RHO	4.4(-2)	12	75FE0230
74	W	184	1.1213	2+	1.0102	E0+M1+E2	X	9.5(-2)	19	75FE0230
74	W	184	1.285	0+						71GU0273
74	W	184	1.3221	0+						74GR0066
74	W	184	1.386	2+	1.275	E2+M1	BE2	7.4(-3)	15	71MI0001
74	W	184	1.432	(0+)						71GU0273
74	W	184	1.6150	0+						74GR0066
74	W	184	2.182	(0+)						73CA0489
74	W	184	2.182	0+						73CA0037
74	W	184	2.2947	(0+)						74GR0066
74	W	184	2.415	(0+)						73CA0489
74	W	184	2.415	0+						73CA0037
74	W	186	0.737	2+	0.615	E2+M1	BE2	6.9(-3)	4	71MI0001
74	W	186	0.883	(0+)						71GU0273
74	W	186	0.8817	0+						73GU0241
74	W	186	0.8817	(0+)						74GU0241
74	W	186	1.150	(0+)						71GU0273
74	W	186	1.286	2+	1.163	E2+M1	BE2	3.4(-3)	4	71MI0001
76	OS	186	0.768	2+	0.631	E2+M1	BE2	8.2(-2)	12	71MI0001
76	OS	186	1.061	0+						75TH0001
76	OS	186	1.456	0+						75TH0001
76	OS	186	1.953	0+						75TH0001
76	OS	186	1.990	0+						75TH0001
76	OS	188	0.633	2+	0.633	E2	BE2	4.0(-2)	15	61GO1274
76	OS	188	0.633	2+	0.633	E2	BE2	5.00(-2)	44	69CA1532
76	OS	188	0.633	2+	0.478	E0+M1+E2	BE2	1.1(-2)	3	61GO1274
76	OS	188	0.633	2+	0.478	E0+M1+E2	BE2	1.46(-2)	13	69CA1532
76	OS	188	0.633	2+	0.476	E2+M1	BE2	1.56(-1)	11	71MI0001
76	OS	188	0.633	2+	0.478	E0+M1+E2	Q	3.2(-1)	+12-20	67IK0167
76	OS	188	0.633	2+	0.476	E0+M1+E2	RHO	2.2(-2)	+8-14	67IK0167
76	OS	188	1.086	0+						59KI0755
76	OS	188	1.086	0+						61KA0385
76	OS	188	1.086	0+						66RA0577
76	OS	188	1.085	0+						69YA0456
76	OS	188	1.087	0+						73SH0700
76	OS	188	1.087	0+						73SH1517
76	OS	188	1.085	0+						75TH0001
76	OS	188	1.0863	0+						75TH0444
76	OS	188	1.0863	0+						75SV0213
76	OS	188	1.0865	0+						75MA0435
76	OS	188	1.086	0+	1.086	E0	RHO	<= 2.2(-2)		74BE0152
76	OS	188	1.0862	0+	1.0862	E0	RHO	>= 2.2(-2)		74BE2505
76	OS	188	1.086	0+	1.086	E0	X	<= 3.5(-3)		74BE0152
76	OS	188	1.0862	0+	1.0862	E0	X	>= 3.5(-3)		74BE2505
76	OS	188	1.086	0+	0.931	E2	BE2U	6.12(-3)	150	69CA1532
76	OS	188	1.477	0+						75TH0001
76	OS	188	1.4780	0+						75TH0444
76	OS	188	1.4781	0+						75SV0213
76	OS	188	1.4780	0+						75MA0435
76	OS	188	1.480	0+						73SH0700
76	OS	188	1.480	0+						73SH1517

76	OS	188	1.705	0+						73SH0700
76	OS	188	1.705	0+						73SH1517
76	OS	188	1.703	0+						75TH0001
76	OS	188	1.7043	0+						75SV0213
76	OS	188	1.7042	0+						75MA0435
76	OS	188	1.766	0+						59KI0755
76	OS	188	1.766	0+						61KA0385
76	OS	188	1.765	0+						69YA0456
76	OS	188	1.765	0+						73SH0700
76	OS	188	1.765	0+						73SH1517
76	OS	188	1.7645	0+						75SV0213
76	OS	188	1.7653	0+						75MA0435
76	OS	188	1.766	0+	1.766	E0	X	1.56(-1)	54	73BE0111
76	OS	188	1.766	0+	1.766	E0	X	1.92(-1)	23	74BE0152
76	OS	188	1.7651	0+	1.7651	E0	X	2.4(-1)	5	74BE2505
76	OS	188	1.823	0+						75TH0001
76	OS	188	1.8252	0+						75MA0435
76	OS	190	0.557	2+	0.557	E2	BE2	3.6(-2)	8	61GO1274
76	OS	190	0.557	2+	0.557	E2	BE2	4.4(-2)	4	69CA1532
76	OS	190	0.557	2+	0.371	E0+M1+E2	BE2	2.1(-1)	6	61GO1274
76	OS	190	0.557	2+	0.371	E0+M1+E2	BE2	2.45(-1)	22	69CA1532
76	OS	190	0.557	2+	0.371	E2+M1	BE2	2.70(-1)	20	71MI0001
76	OS	190	0.557	2+	0.371	E0+M1+E2	Q	3.0(-1)	+18-69	67JK0167
76	OS	190	0.557	2+	0.371	E0+M1+E2	Q	-8(-2)	17	69SA0657
76	OS	190	0.557	2+	0.371	E0+M1+E2	LAMBDA	1(0)		69SA0657
76	OS	190	0.557	2+	0.371	E0+M1+E2	RHO	2.5(-2)	+15-41	67JK0167
76	OS	190	0.557	2+	0.371	E0+M1+E2	RHO	-7(-3)	15	69SA0657
76	OS	190	0.557	2+	0.371	E0+M1+E2	X	4(-5)	17	69SA0657
76	OS	190	0.913	0+						73SH1517
76	OS	190	0.911	(0+)						73EL0700
76	OS	190	0.911	0+						75TH0001
76	OS	190	0.9117	0+						75MA0435
76	OS	190	0.925	0+						67MA0597
76	OS	190	1.540	(0+)						73EL0700
76	OS	190	1.543	0+						75TH0001
76	OS	190	1.5453	0+						75MA0435
76	OS	190	1.551	0+						73SH1517
76	OS	190	1.734	0+						73SH1517
76	OS	190	1.731	(0+)						73EL0700
76	OS	190	1.732	0+						75TH0001
76	OS	190	1.7326	0+						75MA0435
76	OS	192	0.489	2+	0.283	E2+M1	BE2	3.28(-1)	37	71MI0001
78	PT	184	0.492	0+	0.492	E0	X	7(-3)	3	70ER1635
78	PT	184	0.4925	0+	0.4925	E0	X	8(-3)	3	72FI0369
78	PT	184	0.8445	2+	0.6825	E0+(M1)+E2	X	>= 1.3(-1)		72FI0369
78	PT	184	0.841	2+	0.679	E0+E2	X	>= 1.3(-1)		70ER1635
78	PT	186	0.4715	0+	0.4716	E0	X	6.5(-3)	20	72FI0369
78	PT	186	0.7984	2+	0.6072	(E0+M1+E2)	X	>= 1(-2)		72FI0369
78	PT	188	0.6056	2+	0.3399	E2+(E0)	X	<= 1.1(-3)		72FI0369
78	PT	188	0.7962	0+	0.7978	E0	X	9.0(-3)	15	72FI0369
78	PT	188	0.800	0+	0.800	E0	X	9(-3)	2	70ER1635
78	PT	188	1.116	2+	0.850	E0+E2	X	>= 2.4(-1)		70ER1635
78	PT	188	1.1146	2+	0.8493	E0+M1+E2	X	>= 5.0(-1)		72FI0369
78	PT	190	0.5980	2+	0.302	E2+(E0)	X	<= 1(-4)		72FI0369
78	PT	190	0.9203	0+	0.921	E0				73JO0099
78	PT	190	0.922	0+	0.922	E0	X	6(-3)	2	70ER1635
78	PT	190	0.9213	0+	0.9213	E0	X	6.2(-3)	12	72FI0369
78	PT	190	1.204	2+	0.908	E0+E2	X	7.1(-2)	28	70ER1635
78	PT	190	1.2035	2+	0.9075	E0+(M1)+E2	X	>= 8(-2)		72FI0369
78	PT	192	0.412	2+	0.612	E2	BE2U	2.0(-2)	3	70BR0495
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	-3.1(-1)	8	62BU0517
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	+1.9(-1)	11	67AL0177
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	+1(-2)	+15-14	69MA0601
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	>= -1.0(-1)	<= +3.5(-1)	70HI0220
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	>= -2.3(-1)	<= +4.6(-1)	71DO0418
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	2.5(-2)	+95-125	73AL1652
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	> -9(-2)	< +2.6(-1)	73HO0614
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	> -2.9(-1)	< -6.(-2)	73HO0614
78	PT	192	0.612	2+	0.296	E0+M1+E2	Q	4(-2)	5	74VO0123
78	PT	192	0.612	2+	0.296	E0+M1+E2	LAMBDA	>= -2(0)	<= 1.5(+1)	69MA0601
78	PT	192	0.612	2+	0.296	E0+M1+E2	LAMBDA	>= 0(0)	<= +8.0(+1)	70HI0220
78	PT	192	0.612	2+	0.296	E0+M1+E2	LAMBDA	>= -1.5(+1)	<= +1.48(+2)	71DO0418
78	PT	192	0.612	2+	0.296	E0+M1+E2	LAMBDA	>= -3.0(+1)	<= -6(0)	73AL1652
78	PT	192	0.612	2+	0.296	E0+M1+E2	LAMBDA	> +6.2(+1)	< +9.2(+1)	73HO0614
78	PT	192	0.612	2+	0.296	E0+M1+E2	LAMBDA	> -5(0)	< +4.5(+1)	73HO0614
78	PT	192	0.612	2+	0.296	E0+M1+E2	LAMBDA	-4.5(0)	35	74VO0123
78	PT	192	0.612	2+	0.296	E0+M1+E2	RHO	1.7(-2)	5	62BU0517
78	PT	192	0.612	2+	0.296	E0+M1+E2	RHO	1.6(-2)	14	67AL0177

78	PT	192	0.612	2+	0.296	E0+M1+E2	RHO	+1(-3)	+20-17	69MA0601
78	PT	192	0.612	2+	0.296	E0+M1+E2	RHO	+3(-3)	+10-13	73AL1652
78	PT	192	0.612	2+	0.296	E0+M1+E2	RHO	+4(-3)	5	74VO0123
78	PT	192	0.612	2+	0.296	E0+M1+E2	E	-6(-3)	8	70HI0220
78	PT	192	0.612	2+	0.296	E0+M1+E2	E	+1(-3)	+5-6	73AL1652
78	PT	192	0.612	2+	0.296	E0+M1+E2	E	+3.6(-3)	+16-53	74VO0123
78	PT	192	0.612	2+	0.296	E0+M1+E2	X	3.6(-5)	48	70HI0220
78	PT	192	0.612	2+	0.296	E0+M1+E2	X	FROM2.(-6)	TO4.3(-5)	73AL1652
78	PT	192	0.612	2+	0.296	E0+M1+E2	X	1.3(-5)	+14-10	74VO0123
78	PT	192	1.195	0+	1.195	E0	X	2.2(-2)	7	70ER1635
78	PT	192	1.1951	0+	1.1950	E0	X	2.2(-2)	3	72FI0369
78	PT	192	1.4392	2+	1.1227	E0+(M1)+E2	X	>= 2.5(-1)		72FI0369
78	PT	192	1.576	2+	1.260	E0+E2	X	2.5(-1)	5	70ER1635
78	PT	194	0.622	2+	0.622	E2	BE2	1.7(-3)	4	61G01274
78	PT	194	0.622	2+	0.622	E2	BE2	2.2(-3)	4	70BR0495
78	PT	194	0.622	2+	0.293	E0+M1+E2	BE2	2.3(-1)	5	61G01274
78	PT	194	0.622	2+	0.293	E0+M1+E2	Q	-2.5(-1)	13	67AL0177
78	PT	194	0.622	2+	0.293	E0+M1+E2	Q	>= -2.0(-1)	<=+2.5(-1)	67JK0167
78	PT	194	0.622	2+	0.293	E0+M1+E2	Q	>= -1.7(-1)	<= +2.4(-1)	71D00418
78	PT	194	0.622	2+	0.293	E0+M1+E2	LAMBD	>= -5(0)	<= +3.5(+1)	67AL0177
78	PT	194	0.622	2+	0.293	E0+M1+E2	LAMBD	>= -5.0(+1)	<= +1.50(+2)	67JK0167
78	PT	194	0.622	2+	0.293	E0+M1+E2	LAMBD	>= -1.70(+2)	<= +2.70(+2)	71D00418
78	PT	194	0.622	2+	0.293	E0+M1+E2	RHO	1.09(-2)	66	67AL0177
78	PT	194	1.267	0+						59JO1205
78	PT	194	1.267	0+	1.267	E0				64BE0529
78	PT	194	1.267	0+	1.267	E0				70BE0311
78	PT	194	1.2673	0+	1.2674	E0	QSQ	3.6(-1)	4	75FE0286
78	PT	194	1.267	0+	1.267	E0	X	6.7(-3)	13	70ER1635
78	PT	194	1.2673	0+	1.2674	E0	X	8(-3)	2	75FE0286
78	PT	194	1.4793	0+	1.4793	E0	QSQ	1.16(+1)	13	75FE0286
78	PT	194	1.4793	0+	1.4793	E0	X	4.4(-1)	6	75FE0286
78	PT	194	1.480	0+	1.480	E0				64BE0529
78	PT	194	1.480	0+	1.480	E0				70BE0311
78	PT	194	1.5119	2+	1.1834	E0+E2	QSQ	4.1(-1)	16	75FE0286
78	PT	194	1.5119	2+	1.1834	E0+E2	X	2.2(-2)	9	75FE0286
78	PT	194	1.5119	2+	0.8897	E0+E2	QSQ	8.0(-1)	52	75FE0286
78	PT	194	1.5119	2+	0.8897	E0+E2	X	2.2(-2)	15	75FE0286
78	PT	194	1.547	0+	1.547	E0				64BE0529
78	PT	194	1.547	0+	1.547	E0				70BE0311
78	PT	194	1.5473	0+	1.5473	E0	QSQ	4.8(-1)	6	75FE0286
78	PT	194	1.5473	0+	1.5473	E0	X	2.0(-2)	4	75FE0286
78	PT	194	1.551	0+						72MA1380
78	PT	194	1.623	2+	1.295	E0+M1+E2				64BE0529
78	PT	194	1.623	2+	1.295	E0+M1+E2				70BE0311
78	PT	194	1.6223	2+	1.2937	E0+E2	QSQ	3.7(0)	15	75FE0286
78	PT	194	1.623	2+	1.295	E0+E2	Z	>= 7(-2)		70ER1635
78	PT	194	1.6223	2+	1.2937	E0+E2	X	2.4(-1)	9	75FE0286
78	PT	194	1.6223	2+	1.0002	E0+E2	QSQ	6.2(-1)	34	75FE0286
78	PT	194	1.6223	2+	1.0002	E0+E2	X	2.4(-2)	12	75FE0286
78	PT	194	2.085	0+	2.085	E0				64BE0529
78	PT	194	2.085	0+	2.085	E0				70BE0311
78	PT	194	2.0857	0+	2.0858	E0	QSQ	6.21(+1)	7	75FE0286
78	PT	194	2.0857	0+	2.0858	E0	X	5.6(0)	3	75FE0286
78	PT	194	2.163	0+	2.163	E0				64BE0529
78	PT	194	2.164	0+	2.164	E0				70BE0311
78	PT	194	2.1637	0+	2.1641	E0	QSQ	1.59(+1)	13	75FE0286
78	PT	194	2.1637	0+	1.1641	E0	X	1.3(0)	3	75FE0286
78	PT	194	2.3117	2+	1.9833	E0+E2	QSQ	1.3(+1)	4	75FE0286
78	PT	194	2.3117	2+	1.9833	E0+E2	X	2.1(0)	7	75FE0286
78	PT	194	2.356	0+	2.356	E0				64BE0529
78	PT	194	2.357	0+	2.357	E0				70BE0311
78	PT	194	2.3566	0+	2.3570	E0	QSQ	> 7(0)		75FE0286
78	PT	194	2.3566	0+	2.3570	E0	X	> 1.2(0)		75FE0286
78	PT	196	0.689	2+	0.689	E2	BE2	< 2.6(-4)		61G01274
78	PT	196	0.689	2+	0.333	E0+M1+E2	Q	5.6(-1)	10	58GE1119
78	PT	196	0.689	2+	0.333	E0+M1+E2	Q	+4.3(-1)	5	62GE0241
78	PT	196	0.689	2+	0.333	E0+M1+E2	Q	-1.10(-1)	+145-110	62GE0241
78	PT	196	0.689	2+	0.333	E0+M1+E2	Q	+3.9(-1)	5	65PE0466
78	PT	196	0.689	2+	0.333	E0+M1+E2	Q	-2.2(-1)	7	65PE0466
78	PT	196	0.689	2+	0.333	E0+M1+E2	Q	+4.4(-1)	+9-10	71D00418
78	PT	196	0.689	2+	0.333	E0+M1+E2	Q	-2.3(-1)	+16-20	71D00418
78	PT	196	0.689	2+	0.333	E0+M1+E2	LAMBDA	0(0)		58GE1119
78	PT	196	0.689	2+	0.333	E0+M1+E2	LAMBDA	2.7(+1)	13	62GE0241
78	PT	196	0.689	2+	0.333	E0+M1+E2	LAMBDA	9.15(+1)	50	62GE0241
78	PT	196	0.689	2+	0.333	E0+M1+E2	LAMBDA	+6.8(+1)	12	65PE0466
78	PT	196	0.689	2+	0.333	E0+M1+E2	LAMBDA	+2(0)	6	65PE0466
78	PT	196	0.689	2+	0.333	E0+M1+E2	LAMBDA	>= 5.6(+1)	<= 7.7(+1)	71D00418
78	PT	196	0.689	2+	0.333	E0+M1+E2	LAMBDA	>= -3(0)	<= +1.5(+1)	71D00418

78	PT	196	0.689	2+	0.333	E0+M1+E2	RHO	3.9(-2)	7	58GE1119
78	PT	196	0.689	2+	0.333	E0+M1+E2	RHO	+1.6(-2)	2	62GE0241
78	PT	196	0.689	2+	0.333	E0+M1+E2	RHO	-4(-3)	+5-6	62GE0241
78	PT	196	1.137	0+						67MO0330
78	PT	196	1.135	0+						68YA0321
78	PT	196	1.137	0+						68SA0065
78	PT	196	1.135	0+						70ER1635
78	PT	196	1.143	0+						68GR0937
80	HG	186	0.522	0+						75RA1156
80	HG	188	0.8245	0+	0.8245	E0				75HA0000
80	HG	188	0.8245	0+	0.8245	E0				75HA0830
80	HG	188	0.8245	0+	0.8245	E0				75HA0562
80	HG	196	0.956	0+	0.956	E0	B(E0)/B(E2,21-01)	1.1(-4)		70GO1781
80	HG	196	0.960	0+	0.960	E0				69GO0056
80	HG	198	1.088	2+	0.676	E0+M1+E2	LAMBDA	>= 5(0)	<= 2.6(+1)	66SA0529
80	HG	198	1.088	2+	0.676	E0+M1+E2	LAMBDA	>= 3.1(+1)	<= 5.2(+1)	66SA0529
80	HG	198	1.088	2+	0.676	E0+M1+E2	RHO	>= 2.1(-1)	<= +4.2(-1)	66SA0529
80	HG	198	1.088	2+	0.676	E0+M1+E2	RHO	>= -4.2(-1)	<= -2.9(-1)	66SA0529
80	HG	198	1.088	2+	0.676	E0+M1+E2	X	FROM4.6(-1)	TO1.85(0)	66SA0529
80	HG	198	1.088	2+	0.676	E0+M1+E2	X	FROM8.7(-1)	TO1.85(0)	66SA0529
80	HG	198	1.4015	0+						71PA0193
80	HG	200	1.029	0+						65MA0478
80	HG	200	1.0295	0+						67SC1548
80	HG	200	1.0291	(0+)						70SA0542
80	HG	200	1.0294	0+						71MA0405
80	HG	200	1.0293	0+						76BR0366
80	HG	200	1.0293	0+						76BR0366
80	HG	200	1.5151	0+						71KO0593
80	HG	200	1.5152	0+						76BR0366
80	HG	200	1.5152	0+						76BR0366
80	HG	200	1.8568	0+						76BR0366
80	HG	200	1.8570	0+	1.857	E0				71MA0405
80	HG	200	1.8568	0+	1.8574	E0				76BR0366
80	HG	200	2.6971	0+	1.6678	(E0)				76BR0366
80	HG	200	2.6971	0+	1.1819	(E0)				76BR0366
80	HG	202	1.5647	0+						74BR0091
80	HG	202	1.5647	0+						75BR0546
80	HG	202	1.643	0+						74BR0091
80	HG	202	1.643	0+						75BR0546
82	PB	204	1.585	0+	1.585	E0	B(E0)/B(E2,21-01)	9.1(-4)		70GO1781
82	PB	204	1.585	0+	1.585	E0	B(E0)/B(E2,02-21)	4.0(-3)		70GO1781
82	PB	204	1.590	0+	1.590	E0				69GO0056
82	PB	206	1.167	0+						74LA0646
82	PB	206	1.166	0+						74FL0509
82	PB	206	1.17	0+						67HO0886
82	PB	206	2.315	0+						74LA0646
82	PB	206	2.32	0+						67HO0886
82	PB	206	5.637	0+						74FL0509
82	PB	208	11.475	0+						73BO0293
84	PO	208	1.270	0+	1.270	E0				69GO0056
84	PO	208	1.273	0+	1.273	E0	B(E0)/B(E2,21-01)	2.83(-3)	9	70GO1781
84	PO	208	1.273	0+	1.273	E0	B(E0)/B(E2,02-21)	7.8(-3)	10	70GO1781
84	PO	212	1.8012	0+	1.800	E0				72PA0165
86	RN	218	0.650	0+						72MA1380
86	RN	220	0.534	0+						72MA1380
86	RN	222	0.449	0+						72MA1380
88	RA	224	0.918	0+						76FR0760
88	RA	224	1.223	0+						76FR0760
90	TH	228	0.830	0+	0.830	E0	X	8.3(-1)		72MA1380
90	TH	228	1.1536	2+	0.1845	E0+M1+E2	RHO	1.1(-1)	2	74DE2297
90	TH	230	0.635	0+						76MC1146
90	TH	230	0.632	0+						75TH1227
90	TH	230	0.636	0+	0.636	E0	X	2.2(-1)	10	72MA1380
90	TH	230	0.677	2+	0.677	E2	BE2U	4.6(-2)	6	76MC1146
90	TH	230	1.590	0+						74MA1380
90	TH	232	0.730	0+						60DU0202
90	TH	232	0.731	0+						72EL0565
90	TH	232	0.730	0+						76MC1146
90	TH	232	0.730	0+	0.730	E0	X	1.2(-1)	1	72MA1380
90	TH	232	0.775	2+	0.775	E2	BE2U	1.22(-1)	24	60GO1803
90	TH	232	0.774	2+	0.774	E2	BE2U	1.0(-1)	4	76MC1146
90	TH	232	0.775	2+	0.725	E0+E2	RHO	8(-2)		59BE0009
90	TH	232	0.775	2+	0.725	E0+E2	RHO	FROM1.7(-1)	TO2.5(-1)	60DU0202
90	TH	232	0.774	2+	0.725	E0+E2	RHO	3.7(-1)	6	76MC1146
90	TH	232	0.785	2+	0.785	E2	BE2U	1.22(-1)	8	76MC1146
92	U	232	0.695	0+	0.695	E0	X	1.7(-1)	4	72MA1380
92	U	234	0.810	0+						68B.0261
92	U	234	0.810	0+						70SC0528

92	U	234	0.810	0+						73BO0125
92	U	234	0.810	0+	0.810	E0				67HA0095
92	U	234	0.812	0+	0.812	E0	X	5.0(-1)	8	72MA1380
92	U	234	1.046	0+						60WO2004
92	U	234	1.043	0+	0.234	E0				67HA0095
92	U	234	1.045	0+	0.234	E0				67WA0641
92	U	236	0.919	0+						73BO0125
92	U	236	0.9192	0+						74OT0417
92	U	236	0.920	0+						71CO0277
92	U	236	0.920	0+						72MA1380
92	U	238	0.925	(0+)						70EL0635
92	U	238	0.994	0+	0.994	E0-	X	2.0(-1)	6	72MA1380
92	U	238	1.039	2+	1.039	E2	BE2U	1.66(-1)	31	60GO1803
92	U	238	1.037	2+	1.037	E2	BE2U	6.3(-2)	9	74MC1146
92	U	238	1.039	2+	0.991	E0+E2	RHO	9.7(-2)		60DU0202
92	U	238	1.037	2+	0.991	E0+E2	RHO	4.3(-1)	6	74MC1146
92	U	238	1.060	2+	1.060	E2	BE2U	1.27(-1)	9	74MC1146
94	PU	238	0.943	0+						73FR0102
94	PU	238	0.945	0+						74FR0760
94	PU	238	0.942	0+	0.942	:0	X	6.3(-1)	20	72MA1380
94	PU	238	0.9415	0+	0.9415	E0	X	2.4(-1)		72AH0620
94	PU	238	1.228	0+						73FR0102
94	PU	238	1.2286	0+	1.2286	E0	X	1.3(-1)		72AH0620
94	PU	240	0.858	0+	0.858	E0	RHO	> 1.3(-1)	< 3.0(-1)	59BU0143
94	PU	240	0.862	0+						73FR0102
94	PU	240	0.862	0+	0.861	E0	X	5(-2)	1	72MA1380
94	PU	240	1.091	0+						72MA1380
94	PU	240	1.091	0+						73FR0102
94	PU	242	0.956	0+						72MA1380
96	CM	246	1.176	0+						72MA1380
96	CM	246	1.175	0+	1.175	E0				71TI0496
96	CM	246	1.289	0+						71TI0496

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