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Table of Half-Lives for Excited Nuclear Levels

S.G. Malmskog



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TABLE OF HALF-LIVES FOR EXCITED NUCLEAR LEVELS

Sven G. Malmskog

AB Atomenergi, Studsvik, Nyköping and Institute of Physics, University
of Stockholm, Sweden

ABSTRACT

The knowledge of the half-lives of excited states is often a valuable information in the investigation of the nuclear level structure. The present paper contains a collection of such half-lives being published in the current literature over the period 1967-1970. The data is arranged in increasing order of mass number.

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A knowledge of the half-lives of excited states in nuclei gives central information for the understanding of nuclear properties. During recent years experimental material in this field has increased tremendously, especially due to the effective Doppler shift attenuation method using high resolution Ge(Li) detectors. It has therefore become exceedingly impractical for everyone interested in half-life information to try to keep up their own registers. Instead all data should be centrally distributed at regular intervals.

The present table is in principal a continuation of an earlier collection of experimental life-time data [1] from which the general layout has been carried over. Only data which did not appear in the earlier collection is included in the compilation. The material is taken from my own collection of data accumulated over the last few years from articles appearing in the current literature printed before January 1st, 1970. A systematic survey of Nuclear Science Abstracts has also been performed for the same period of time. No claim is made that this table is complete as much information may have missed my attention. In a few cases new measurements of already well established half-lives have been deliberately excluded to keep down the volume of the table. If, however, new data exists that has not been included, please let me know and they will be appropriately taken into consideration for the next edition.

All data in the present table are punched on cards and processed by the IBM 360/30 computer at Studsvik. The pages of the table are taken directly from the line printer output of the computer. Corrections to the present edition can therefore be easily made. Due to the condensed form of the information minor changes in the original data have been made. This is especially true for non-symmetrical errors which are not accepted in the program format. It is therefore strongly suggested in cases where exact information is needed also to consult the original paper. There is furthermore no guarantee that all information in the table is correct; if errors are detected the author should like to be informed in order to make corrections to later editions.

Where possible the same notations have been used as in ref. [1]. A few not so obvious signs are defined below. In all other cases ref. [1] should be consulted.

1. *** in col. 4 means that the level energy is not known
2. * in col. 4 means that the half-life cannot with certainty be associated with the energy value given immediately to the left.
3. Col. 7 gives errors in the last figures. When asymmetric limits of errors have been reported a symmetric error has been estimated by the author.
4. Col. 9 gives $B(E2)$ in e^2b^2 , Γ and Γ_γ in eV.
5. AMBIG in col. 14 denotes that definite inconsistencies between different measurements exists.

6. The following abbreviations are used in col. 15

AFI ANNUAL REPORT	Annual report from Research Institute for Physics, Stockholm, Sweden
ARK. FYS.	Arkiv för Fysik
BULL. AM.	Bulletin of the American Physical Society
BULL. USSR	Bulletin of the Academy of Sciences of the USSR, Physical Series
CAN. J. PHYS.	Canadian Journal of Physics
COMPT. REND.	Comptes Rendus (Paris)
CONF. BOMBAY	Proc. Nuclear Physics and Solid State Physics Symposium, Bombay 28-31 dec, 1968, Vol. 2
EVERS THESIS	D. Evers, Thesis Universital Hamburg, Germany, 1968
INT. CONF. EREVAN	Int. Conf. on Nuclear Structure 27 jan-4 febr 1969, Eravan, USSR
INT. J. APPL. RAD.	International journal of applied radiation and isotopes
INT. CONF. MONTREAL	Int. Conf. on properties on nuclear states, 25-30 Aug, 1969, Montreal, Quebec, Canada
INT. CONF. TOKYO	Int. Conf. on Nuclear Structure, 7-13 Sept 1967, Tokyo, Japan
IZV. SSSR	Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya
JETP	Soviet Physics JETP

J. PHYJAPAN	Journal of the Physical Society of Japan
J. PHYS. RAD.	Journal de Physique et le Radium
NABILEK THESIS	Report PH-78/1968 Reaktorzentrum Seibersdorf, Österreich
NUCL. PHYS.	Nuclear Physics
NUOVO. CIM. LETT.	Nuovo Cimento letters
PHYS. LETT.	Physics Letters
PHYS. REV.	Physical Review
PRIV. COM. 1	Private communication from J. Mc. Donald
PR. LETTERS	Physical Review Letters
REV. ROUM. P.	Revue Roumaine de Physique
SOV. NUCLPH.	Soviet Journal of Nuclear Physics
ZEIT. PHYS:	Zeitschrift für Physik

REFERENCES

1. A. MARELIUS, P. SPARRMAN and T. SUNDSTRÖM, Table of nuclear life-times, appendix D Hyperfine structure and nuclear radiations, (Proc. Conf. Pacific Grove, California, Aug. 25-30, 1967) North-Holland Publ. Co., Amsterdam, 1968, p. 1043.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
4	BE	10	3370	2+	1.31E-13	14	S				E2	DOS	PHYS.REV.	176	1130	1968	
5	B	10	1740		<2.8 E-14		S					DOS	PHYS.REV.	165	1071	1968	
5	B	10	2150		1.5 E-12	4	S					DOS	PHYS.REV.	165	1071	1968	
5	B	10	2150		1.87E-12	35	S					DOS	PHYS.REV.	176	1130	1968	
5	B	10	2150		8.8 E-13	28	S					DOS	PHYS.REV.	179	1011	1969	
5	B	10	3590		1.2 E-13	5	S					DOS	PHYS.REV.	165	1071	1968	
5	B	10	3590		1.04E-13	10	S					DOS	PHYS.REV.	176	1130	1968	
5	B	10	3590		6.9 E-14	21	S					DOS	PHYS.REV.	179	1011	1969	
6	C	10	3360	2+	1.07E-13	17	S				E2	DOS	PHYS.REV.	176	1130	1968	
5	B	11	6760		<1.8 E-14		S					DOS	BULL.AM.	14	628	1969	
5	B	11	6790		<2.4 E-14		S					DOS	PHYS.REV.	179	1011	1969	
5	B	11	6810		<3.5 E-14		S					DOS	BULL.AM.	14	628	1969	
5	B	11	7285		<1.6 E-14		S					DOS	PHYS.REV.	179	1011	1969	
5	B	11	7979		<4.8 E-14		S					DOS	PHYS.REV.	179	1011	1969	
5	B	11	7990		<2.1 E-14		S					DOS	BULL.AM.	14	628	1969	
5	B	11	8556		<4.2 E-14		S					DOS	PHYS.REV.	179	1011	1969	
6	C	11	4310		<9.7 E-14		S					DOS	PHYS.REV.	179	1011	1969	
6	C	11	4320		<7.0 E-15		S					DOS	BULL.AM.	14	628	1969	
6	C	11	6490		<7.0 E-15		S					DOS	BULL.AM.	14	628	1969	
6	C	11	6900		<4.8 E-14		S					DOS	PHYS.REV.	179	1011	1969	
6	C	11	7505		<6.3 E-14		S					DOS	PHYS.REV.	179	1011	1969	
5	B	12	953		2.05E-13	26	S					DOS	PHYS.REV.	179	1011	1969	
5	B	12	2620		<3.3 E-14		S					DOS	PHYS.REV.	179	1011	1969	
6	C	12	4430		3.8 E-14	5	S					DOS	PHYS.REV.	176	1140	1968	
5	B	13	3536		>2.1 E-13		S					DOS	PHYS.REV.	179	1011	1969	
5	B	13	3710		<2.6 E-13		S					DOS	PHYS.REV.	179	1011	1969	
5	B	13	4133		4.3 E-14	35	S					DOS	PHYS.REV.	179	1011	1969	
6	C	13	3090		<7.0 E-15		S					DOS	PHYS.REV.	176	1140	1968	
6	C	13	3680		<1.8 E-14		S					DOS	PHYS.REV.	176	1140	1968	
6	C	13	3860		6.2 E-12	14	S					DOS	PHYS.REV.	176	1140	1968	
6	C	13	3860		7.4 E-12	7	S					RC	PHYS.REV.	188	1967	1967	
7	N	13	2370		1.02E-15	10	S					DOS	PHYS.REV.	176	1140	1968	
6	C	14	6095		<2.2 E-13		S					DOS	PHYS.REV.	179	1011	1969	
6	C	14	6720		6.7 E-11	10	S				M2,E3	RC	CAN.J.PHYS.	46	1575	1968	
6	C	14	7012		<8.3 E-14		S					DOS	PHYS.REV.	179	1011	1969	
7	N	14	5100		8.6 E-12	10	S				M2,E3	RC	CAN.J.PHYS.	46	1575	1968	
7	N	14	5830		1.25E-11	14	S				M2,E3	RC	CAN.J.PHYS.	46	1575	1968	
7	N	14	6444		4.36E-13	55	S					DOS	PHYS.REV.	179	1011	1969	
6	C	15	750		2.60E-9	8	S					TM	PHYS.REV.	166	988	1968	
7	N	15	5270	5/2+	2.01E-12	35	S					DOS	NUCL.PHYS.	A104	577	1967	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
7	N	15	6323	3/2-	<3.1 E-14		S				DOS		NUCL.PHYS.	A121	209	1968	
7	N	15	7154	5/2+	<1.3 E-14		S				DOS		NUCL.PHYS.	A121	209	1968	
7	N	15	7300	3/2+	<1.8 E-14		S				DOS		NUCL.PHYS.	A121	209	1968	
7	N	15	7563	7/2+	4.2 E-14	14	S				DOS		NUCL.PHYS.	A121	209	1968	
7	N	15	8312		<1.5 E-14		S				DOS		NUCL.PHYS.	A121	209	1968	
7	N	15	9830		<1.3 E-13		S				DOS		PHYS.REV.	179	1011	1969	
8	O	15	5240	5/2+	2.22E-12	35	S				DOS		NUCL.PHYS.	A104	577	1967	
8	O	15	6180	3/2-	<3.3 E-14		S				DOS		NUCL.PHYS.	A121	209	1968	
8	O	15	6789	3/2+	<2.0 E-14		S				DOS		NUCL.PHYS.	A121	209	1968	
8	O	15	6857	5/2+	<1.3 E-14		S				DOS		NUCL.PHYS.	A121	209	1968	
8	O	15	7276		4.9 E-13	10	S				DOS		NUCL.PHYS.	A121	209	1968	
7	N	16	297		6.6 E-11	14	S				DOS		NUCL.PHYS.	A134	308	1969	
7	N	16	298		>4.8 E-13		S				DOS		PHYS.REV.	179	1011	1969	
7	N	16	397		2.9 E-11	7	S				DOS		NUCL.PHYS.	A134	308	1969	
7	N	16	398		>6.2 E-13		S				DOS		PHYS.REV.	179	1011	1969	
8	O	16	6920	2+				1.10E-1	5		RS		BULL.AM.	14	1203	1969	
8	O	16	7120	1-				6.2 E-2	5		RS		BULL.AM.	14	1203	1969	
8	O	16	8870		2.6 E-13	9	S				DOS		PHYS.REV.	179	1011	1969	
8	O	16	10940		3.5 E-14	18	S				DOS		NUOVO CIM.LETT.	1	349	1969	
7	N	17	1371		<1.4 E-13		S				DOS		PHYS.REV.	179	1011	1969	
7	N	17	1908		3.5 E-13		S				DOS		PHYS.REV.	179	1011	1969	
7	N	17	3130		<2.1 E-13		S				DOS		PHYS.REV.	179	1011	1969	
7	N	17	3222		>2.1 E-13		S				DOS		PHYS.REV.	179	1011	1969	
8	O	17	871		1.61E-10	19	S				DOS		BULL.AM.	10	118	1965	
8	O	17	871		1.81E-10	5	S				TM P,G		NUCL.PHYS.	A129	129	1969	
8	O	17	871		1.76E-10	4	S				DOS		NUCL.PHYS.	A134	308	1969	
8	O	17	871		1.72E-10	7	S				DOS		BULL.AM.	14	123	1969	
9	F	17	500	1/2+	2.96E-10	15	S				E2	TM	NUCL.PHYS.	38	222	1962	
9	F	18	4360		<4.2 E-13		S				DOS		PHYS.REV.	179	1011	1969	
8	O	19	95		1.31E-9	14	S				DOS		NUCL.PHYS.	A134	308	1969	
8	O	19	1468		1.3 E-11	7	S				DOS		NUCL.PHYS.	A134	308	1969	
8	O	19	1470		8.5 E-13	25	S				DOS		BULL.AM.	14	851	1969	
9	F	19	110		5.87E-10	7	S				DOS		NUCL.PHYS.	A134	308	1969	
9	F	19	110		6.32E-10	35	S				TM		PHYS.REV.	183	924	1969	
9	F	19	940		9.5 E-11	25	S				E2	DOS	BULL.AM.	10	118	1965	
9	F	19	1346		3.25E-12	42	S				RC		PHYS.REV.	178	1773	1969	
9	F	19	1346		3.6 E-12	6	S				DOS		BULL.AM.	14	124	1969	
9	F	19	1459		5.8 E-14	14	S				DOS		BULL.AM.	14	124	1969	
9	F	19	1553		<6.9 E-13		S				DOS		NUCL.PHYS.	A134	308	1969	
9	F	19	1554		3.0 E-15	15	S				DOS		BULL.AM.	14	124	1969	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Z	EL.	A	E(KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
9	F	19	2797	9/2+	1.71E-13	31	S				DOS		PR.LETTERS	21	1535	1968	
9	F	19	4648		1.46E-12	28	S				DOS		PHYS.LETT.	30B	162	1969	
10	NE	19	238	5/2+	1.77E-8	7	S				TM		NUCL.PHYS.	A123	65	1969	
10	NE	19	275	1/2-	<3.0 E-10		S				TM		NUCL.PHYS.	A123	65	1969	
10	NE	19	275		4.2 E-11	7	S				DOS		NUCL.PHYS.	A134	308	1969	
9	F	20	660	3+	2.5 E-13	5	S				DOS		PHYS.REV.	186	1167	1969	
9	F	20	823		5.3 E-11	14	S				DOS		NUCL.PHYS.	A134	308	1969	
9	F	20	980		8.9 E-13	35	S				DOS		PHYS.REV.	186	1167	1969	
9	F	20	1060		<6.4 E-14		S				DOS		PHYS.REV.	186	1167	1969	
9	F	20	1310		7.7 E-13	25	S				DOS		PHYS.REV.	186	1167	1969	
9	F	20	2040		<2.6 E-14		S				DOS		PHYS.REV.	186	1167	1969	
9	F	20	2190		<3.2 E-14		S				DOS		PHYS.REV.	186	1167	1969	
9	F	20	2960		<4.3 E-14		S				DOS		PHYS.REV.	186	1167	1969	
9	F	20	3490		<3.3 E-14		S				DOS		PHYS.REV.	186	1167	1969	
9	F	20	3530		<2.2 E-14		S				DOS		PHYS.REV.	186	1167	1969	
10	NE	20	1630		8.8 E-13	17	S				DOS		PHYS.REV.	179	1011	1969	
10	NE	20	1632		1.04E-12	50	S				DOS		NUCL.PHYS.	A128	305	1969	
10	NE	20	1634	2+	5.8 E-13	14	S				DOS		NUCL.PHYS.	A127	13	1969	
10	NE	20	4249		1.04E-13	17	S				DOS		NUCL.PHYS.	A128	305	1969	
10	NE	20	4972		1.94E-12	100	S				DOS		NUCL.PHYS.	A128	305	1969	
9	F	21	280		8.31E-9	36	S			E2	TM		PHYS.REV.	154	1101	1967	
10	NE	21	350		1.5 E-11	2	S				DOS		NUCL.PHYS.	A111	12	1968	
10	NE	21	351		1.56E-11	7	S				DOS		NUCL.PHYS.	A134	308	1969	
10	NE	21	1747		1.04E-13	28	S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	2796		<3.1 E-14		S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	2797		<3.5 E-14		S				DOS		NUCL.PHYS.	A137	262	1969	
10	NE	21	2866		6.9 E-14	14	S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	3663	3/2	8.3 E-14	14	S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	3735		<4.7 E-14		S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	3885		5.4 E-14	19	S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	4431		5.4 E-14	19	S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	4526		<4.7 E-14		S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	4526		<3.5 E-14		S				DOS		NUCL.PHYS.	A137	262	1969	
10	NE	21	4687		3.9 E-14		S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	4693		<3.5 E-14		S				DOS		NUCL.PHYS.	A137	262	1969	
10	NE	21	4726		<3.5 E-14		S				DOS		NUCL.PHYS.	A137	262	1969	
10	NE	21	4730		3.1 E-14		S				DOS		PHYS.REV.	186	1174	1969	
10	NE	21	5330		<4.9 E-13		S				DOS		PHYS.REV.	179	1011	1969	
10	NE	21	5620		<4.8 E-13		S				DOS		PHYS.REV.	179	1011	1969	
10	NE	21	5770		<4.8 E-13		S				DOS		PHYS.REV.	179	1011	1969	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Z	EL.	A	E(KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
10	NE	21	5990		<4.8 E-13		S					DOS	PHYS.REV.	179	1011	1969	
10	NE	21	6260		<4.8 E-13		S					DOS	PHYS.REV.	179	1011	1969	
10	NE	21	6740		<4.8 E-13		S					DOS	PHYS.REV.	179	1011	1969	
11	NA	21	332		1.0 E-11	2	S					DOS	NUCL.PHYS.	A111	12	1968	
11	NA	21	1716		3.1 E-14	10	S					DOS	PHYS.LETT.	298	645	1969	
10	NE	22	1275		3.20E-12	35	S					RC	PHYS.REV.	178	1773	1969	
10	NE	22	1275		4.86E-12	62	S					DOS	EVERS THESIS			1968	
10	NE	22	5140		5.9 E-10		S					TM A,G	ZEIT.PHYS.	210	179	1968	
11	NA	22	891		1.00E-11	5	S					RC	NUCL.PHYS.	178	1773	1969	
11	NA	22	891		9.2 E-12	40	S					DOS	PHYS.REV.	167	1066	1968	
11	NA	22	1528		3.5 E-12	5	S					RC	NUCL.PHYS.	178	1773	1969	
11	NA	22	1528		2.69E-12	100	S					DOS	PHYS.REV.	167	1066	1968	
11	NA	22	2211		1.49E-11	7	S					RC	NUCL.PHYS.	178	1773	1969	
11	NA	22	3708		3.6 E-14	12	S					DOS	NUCL.PHYS.	A136	160	1969	
11	NA	23	440		1.11E-12	6	S					DOS	NUCL.PHYS.	A105	1	1967	
11	NA	23	2077		<3.5 E-13		S					DOS	NUCL.PHYS.	A134	308	1969	
11	NA	23	2080		1.53E-13	21	S					DOS	PHYS.LETT.	298	100	1969	
11	NA	23	2390		1.07E-12	6	S					DOS	PHYS.LETT.	298	100	1969	
11	NA	23	2390		6.6 E-13	14	S					DOS	PHYS.REV.	184	1130	1969	
11	NA	23	2640		2.50E-13	42	S					DOS	PHYS.LETT.	298	100	1969	
11	NA	23	2640		1.38E-13	56	S					DOS	PHYS.REV.	184	1130	1969	
11	NA	23	2700		6.9 E-14	14	S					DOS	PHYS.LETT.	298	100	1969	
11	NA	23	2700		1.38E-13	70	S					DOS	PHYS.REV.	184	1130	1969	
11	NA	23	3680		2.8 E-14	28	S					DOS	PHYS.LETT.	298	100	1969	
11	NA	23	3850		1.18E-13	28	S					DOS	PHYS.LETT.	298	100	1969	
11	NA	23	3910		4.2 E-14	21	S					DOS	PHYS.LETT.	298	100	1969	
11	NA	24	472		2.05E-2	5	S					TM	CAN.J.PHYS.	47	953	1969	
12	MG	24	1220					B(E2)↑	8.1 E-4	9		CE	CAN.J.PHYS.	47	1065	1969	
12	MG	24	1369		1.18E-12	60	S					DOS	NUCL.PHYS.	A128	315	1969	
12	MG	24	1369		1.15E-12	12	S					DOS	CAN.J.PHYS.	47	1929	1969	
12	MG	24	1370	2+	1.00E-12	15	S					DOS	PHYS.REV.	168	1266	1969	
12	MG	24	1762					B(E2)↑	1.17E-2	9		CE	CAN.J.PHYS.	47	1065	1969	
12	MG	24	4120	4+	3.7 E-14	7	S					DOS	INT.CONF.MONTREAL		112	1969	
12	MG	24	4120	4+	3.5 E-14	24	S					DOS	PHYS.REV.	168	1266	1969	
12	MG	24	4122		5.4 E-14	21	S					DOS	NUCL.PHYS.	A128	315	1969	
12	MG	24	4230	2+	7.0 E-14	23	S					DOS	PHYS.REV.	168	1266	1969	
12	MG	24	4237		7.3 E-14	14	S					DOS	NUCL.PHYS.	A128	315	1969	
12	MG	24	4238	2+	5.9 E-14	10	S					DOS	INT.CONF.MONTREAL		112	1969	
12	MG	24	5220	3+	5.5 E-14	38	S					DOS	PHYS.REV.	168	1266	1969	
12	MG	24	5230	3+	7.6 E-14	10	S					DOS	INT.CONF.MONTREAL		112	1969	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Z	EL.	A	E(KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
12	MG	24	5235		6.6 E-14	17	S				DOS		NUCL.PHYS.	A128	315	1969	
12	MG	24	6000	4+	4.9 E-14	31	S				DOS		PHYS.REV.	168	1266	1969	
12	MG	24	6003		3.5 E-14	17	S				DOS		NUCL.PHYS.	A128	315	1969	
12	MG	24	6007	4+	5.3 E-14	13	S				DOS		INT.CONF.MONTREAL		112	1969	
12	MG	24	6440	0+	1.7 E-13	14	S				DOS		PHYS.REV.	168	1266	1969	
12	MG	24	7808	5+	2.4 E-14	4	S				DOS		INT.CONF.MONTREAL		112	1969	
12	MG	24	8109	6+	4.2 E-15	21	S				DOS		INT.CONF.MONTREAL		112	1969	
12	MG	24	9522	6+	8.3 E-15	35	S				DOS		INT.CONF.MONTREAL		112	1969	
12	MG	24	13206	8+	2.1 E-15	14	S				DOS		INT.CONF.MONTREAL		112	1969	
12	MG	24	14145	8+	<4.9 E-15		S				DOS		INT.CONF.MONTREAL		112	1969	
11	NA	25	89		6.2 E-9	42	S				DOS		NUCL.PHYS.	A134	308	1969	
12	MG	25	1611		1.9 E-14	14	S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	1960		5.6 E-13	14	S				DOS		BULL.AM.	14	628	1969	
12	MG	25	1962		4.2 E-13	10	S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	2565		4.1 E-14	18	S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	2736		2.00E-13	14	S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	2800		2.1 E-14	14	S				DOS		BULL.AM.	14	628	1969	
12	MG	25	2803		1.9 E-14	4	S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	3399		2.3 E-14	13	S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	3408		<1.4 E-14		S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	3903		<1.4 E-14		S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	3969		1.7 E-14	8	S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	4055		3.7 E-14	8	S				DOS		CAN.J.PHYS.	46	2039	1968	
12	MG	25	5005		<1.8 E-14		S				DOS		CAN.J.PHYS.	46	2039	1968	
13	AL	25	945	3/2+	>4.2 E-12		S				DOS		CAN.J.PHYS.	47	2609	1969	
13	AL	25	1790	5/2+	3.8 E-13	6	S				DOS		CAN.J.PHYS.	47	2609	1969	
13	AL	25	2723		3.1 E-13	7	S				DOS		CAN.J.PHYS.	47	2609	1969	
13	AL	25	4038		1.52E-14	41	S				DOS		CAN.J.PHYS.	46	2789	1968	
12	MG	26	1808		3.7 E-13	7	S				DOS		CAN.J.PHYS.	46	1035	1968	
12	MG	26	1810	2+	4.0 E-13	6	S				DOS		PHYS.REV.	168	1266	1969	
12	MG	26	2940		3.5 E-14	14	S				DOS	AMBIG	CAN.J.PHYS.	46	1035	1968	
12	MG	26	2940	2+	1.22E-13	21	S				DOS	AMBIG	PHYS.REV.	168	1266	1969	
12	MG	26	3566		2.1 E-12	10	S				DOS		CAN.J.PHYS.	46	1035	1968	
12	MG	26	3942		3.8 E-13	9	S				DOS		CAN.J.PHYS.	46	1035	1968	
12	MG	26	4320		2.1 E-13	6	S				DOS		CAN.J.PHYS.	46	1035	1968	
12	MG	26	4333		<4.9 E-14		S				DOS		CAN.J.PHYS.	46	1035	1968	
12	MG	26	4351		6.2 E-14	25	S				DOS		CAN.J.PHYS.	46	1035	1968	
12	MG	26	4835		<3.5 E-14		S				DOS		CAN.J.PHYS.	46	1035	1968	
12	MG	26	4903		3.5 E-14	25	S				DOS		CAN.J.PHYS.	46	1035	1968	
12	MG	26	4974		3.7 E-13	17	S				DOS		CAN.J.PHYS.	46	1035	1968	

1 Z	2 EL.	3 A	4 E (KEV)	5 I PI	6 HALF-LIFE	7 ER.	8 U.	9 QUANTITY	10 VALUE	11 ER.	12 MULTIP.	13 METHOD	14 BASIS	15 REFERENCE	16 VOL.	17 PAGE	18 YEAR
12	MG	26	5292		<3.5 E-14		S					DOS		CAN. J. PHYS.	46	1035	1968
12	MG	26	5693		4.9 E-14	30	S					DOS		CAN. J. PHYS.	46	1035	1968
12	MG	26	6257		4.2 E-14	30	S					DOS		CAN. J. PHYS.	46	1035	1968
12	MG	26	6744		5.5 E-14	20	S					DOS		CAN. J. PHYS.	46	1035	1968
12	MG	26	6881		6.9 E-14	35	S					DOS		CAN. J. PHYS.	46	1035	1968
13	AL	26	1059		<5.5 E-14		S					DOS		CAN. J. PHYS.	46	1035	1968
13	AL	26	1760		>2.3 E-12		S					DOS		CAN. J. PHYS.	46	1035	1968
13	AL	26	1760		4.5 E-12	14	S					DOS		BULL. AM.	14	628	1969
13	AL	26	1850		1.1 E-14	5	S					DOS		CAN. J. PHYS.	46	2809	1968
13	AL	26	1852		6.9 E-14	30	S					DOS		CAN. J. PHYS.	46	1035	1968
13	AL	26	2069		2.6 E-13	8	S					DOS		CAN. J. PHYS.	46	2809	1968
13	AL	26	2070		9.0 E-15	35	S					DOS		CAN. J. PHYS.	46	2809	1968
13	AL	26	2072		3.9 E-13	20	S					DOS		CAN. J. PHYS.	46	2809	1968
13	AL	26	2367		9.7 E-13	31	S					DOS		CAN. J. PHYS.	46	1035	1968
13	AL	26	2662		>1.4 E-12		S					DOS		CAN. J. PHYS.	46	1035	1968
13	AL	26	2915		5.2 E-14	25	S					DOS		CAN. J. PHYS.	46	1035	1968
13	AL	26	3159		<6.9 E-15		S					DOS		CAN. J. PHYS.	46	2809	1968
14	SI	26	1796		9.7 E-13	42	S					DOS		NUCL. PHYS.	A133	337	1969
14	SI	26	2784		1.4 E-13	8	S					DOS		NUCL. PHYS.	A133	337	1969
14	SI	26	3333		1.9 E-12	7	S					DOS		NUCL. PHYS.	A133	337	1969
14	SI	26	3756		<5.0 E-13		S					DOS		NUCL. PHYS.	A133	337	1969
14	SI	26	4138		<1.5 E-13		S					DOS		NUCL. PHYS.	A133	337	1969
14	SI	26	4445		<3.5 E-13		S					DOS		NUCL. PHYS.	A133	337	1969
14	SI	26	4805		<6.9 E-14		S					DOS		NUCL. PHYS.	A133	337	1969
12	MG	27	984		9.7 E-13	35	S					DOS		PHYS. REV.	184	1105	1969
12	MG	27	984		9.7 E-13	35	S					DOS		BULL. AM.	14	628	1969
12	MG	27	1690		9.0 E-13	35	S					DOS		PHYS. REV.	184	1105	1969
12	MG	27	1690		9.0 E-13	35	S					DOS		BULL. AM.	14	628	1969
12	MG	27	1940		9.7 E-13	35	S					DOS		PHYS. REV.	184	1105	1969
12	MG	27	1940		9.7 E-13	35	S					DOS		BULL. AM.	14	628	1969
12	MG	27	3480		<2.1 E-14		S					DOS		PHYS. REV.	184	1105	1969
12	MG	27	3560		<3.5 E-14		S					DOS		PHYS. REV.	184	1105	1969
13	AL	27	843		>6.9 E-13		S					DOS		CAN. J. PHYS.	46	261	1968
13	AL	27	1013	3/2+	2.2 E-12	3	S	π	1.3 E-3	4	M1	RS		NUCL. PHYS.	A91	472	1967
13	AL	27	1014		1.04E-12	28	S					DOS		CAN. J. PHYS.	46	261	1968
13	AL	27	2211		3.8 E-14	6	S					DOS		CAN. J. PHYS.	46	261	1968
13	AL	27	2734		1.1 E-14	5	S					DOS		CAN. J. PHYS.	46	261	1968
13	AL	27	2980		9.7 E-15	42	S					DOS		CAN. J. PHYS.	46	261	1968
13	AL	27	3003		5.7 E-14	5	S					DOS		CAN. J. PHYS.	46	261	1968

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
13	AL	27	3678		<2.1 E-14		S				DOS		CAN. J. PHYS.	46	261	1968	
13	AL	27	3955		<1.4 E-14		S				DOS		CAN. J. PHYS.	46	261	1968	
13	AL	27	4054		<1.4 E-14		S				DOS		CAN. J. PHYS.	46	261	1968	
13	AL	27	4408		<1.5 E-14		S				DOS		CAN. J. PHYS.	46	261	1968	
13	AL	27	4509		2.1 E-14	2	S				DOS		CAN. J. PHYS.	46	261	1968	
13	AL	27	4580		<2.1 E-14		S				DOS		CAN. J. PHYS.	46	261	1968	
14	SI	28	1770	2+	4.9 E-13	6	S				DOS		PHYS. REV.	168	1266	1969	
14	SI	28	1774	2+	6.1 E-13	15	S			E2	DOS		NUCL. PHYS.	A127	13	1969	
14	SI	28	1778		4.60E-13	69	S				DOS		COMPT. REND.	268	1272	1969	
14	SI	28	1779	2+	5.7 E-13	13	S			E2	DOS		NUCL. PHYS.	A128	305	1969	
14	SI	28	1779		5.06E-13	35	S				CE		PHYS. LETT.	298	660	1969	
14	SI	28	4610	4+	3.8 E-14	10	S				DOS		PHYS. REV.	168	1266	1969	
14	SI	28	4617	4+	4.2 E-14	3	S			E2	DOS		PHYS. REV.	172	1004	1968	
14	SI	28	4617		2.9 E-14	10	S				DOS	AMBIG	COMPT. REND.	268	1272	1969	
14	SI	28	4617	4+	6.9 E-14	14	S			E2	DOS	AMBIG	CAN. J. PHYS.	47	639	1969	
14	SI	28	4618	4+	4.2 E-14	13	S			E2	DOS		NUCL. PHYS.	A128	305	1969	
14	SI	28	4981	0+	4.2 E-14	12	S			E2	DOS		CAN. J. PHYS.	47	639	1969	
14	SI	28	6272		7.6 E-13	16	S				DOS		COMPT. REND.	268	1272	1969	
14	SI	28	6273		9.0 E-13	21	S				DOS		NUCL. PHYS.	A128	305	1969	
14	SI	28	6276	3+	8.0 E-13	9	S				DOS		CAN. J. PHYS.	47	639	1969	
14	SI	28	6690		6.1 E-14	8	S				DOS		NUCL. PHYS.	A136	663	1969	
14	SI	28	6695	0+	1.25E-13	25	S			E2	DOS		CAN. J. PHYS.	47	639	1969	
14	SI	28	6873		>2.8 E-13		S				DOS		NUCL. PHYS.	A128	305	1969	
14	SI	28	6880		7.2 E-14	22	S				DOS		PHYS. REV.	168	1266	1969	
14	SI	28	6880	3-	1.9 E-12	4	S			E3	DOS		CAN. J. PHYS.	47	639	1969	
14	SI	28	6889	4+	4.9 E-14	14	S			E2	DOS		CAN. J. PHYS.	47	639	1969	
14	SI	28	6890		3.68E-14	42	S				DOS		NUCL. PHYS.	A136	663	1969	
14	SI	28	7380		9.0 E-15	21	S				DOS		PHYS. REV.	172	1004	1969	
14	SI	28	7380		4.9 E-15	28	S				DOS	AMBIG	NUCL. PHYS.	A136	663	1969	
14	SI	28	7388		1.2 E-13	5	S				DOS	AMBIG	NUCL. PHYS.	A128	305	1969	
14	SI	28	7416		2.8 E-14	2	S				DOS		PHYS. REV.	172	1004	1969	
14	SI	28	7416		2.84E-14	35	S				DOS		PHYS. REV.	188	1965	1969	
14	SI	28	7420		1.67E-14	28	S				DOS		NUCL. PHYS.	A136	663	1969	
14	SI	28	7797		2.7 E-13	12	S				DOS		NUCL. PHYS.	A128	305	1969	
14	SI	28	7798		2.1 E-14	7	S				DOS	AMBIG	CAN. J. PHYS.	47	651	1969	
14	SI	28	7800		1.32E-13	21	S				DOS		NUCL. PHYS.	A136	663	1969	
14	SI	28	7930		<4.2 E-15		S				DOS	AMBIG	NUCL. PHYS.	A136	663	1969	
14	SI	28	7939		3.5 E-14	17	S				DOS	AMBIG	NUCL. PHYS.	A128	305	1969	
14	SI	28	8260		9.7 E-15	41	S				DOS		PHYS. REV.	172	1004	1969	
14	SI	28	8543		4.0 E-14	8	S				DOS		CAN. J. PHYS.	47	1371	1969	

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Z	EL.	A	E(KEV)	I	PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR
14	SI	28	8584			<1.7 E-14		S				DOS		NUCL.PHYS.	A128	305	1969
14	SI	28	8588			1.7 E-14	3	S				DOS		PHYS.REV.	172	1004	1969
14	SI	28	8900			8.3 E-15	21	S				DOS		NUCL.PHYS.	A136	663	1969
14	SI	28	9163	2+		2.7 E-14	4	S				DOS		PHYS.REV.	172	1004	1969
14	SI	28	9316			<6.9 E-15		S				DOS		PHYS.REV.	172	1004	1969
14	SI	28	9320			<3.5 E-15		S				DOS		NUCL.PHYS.	A136	663	1969
14	SI	28	9380			3.5 E-15	21	S				DOS		NUCL.PHYS.	A136	663	1969
14	SI	28	9500			6.2 E-15	21	S				DOS		NUCL.PHYS.	A136	663	1969
14	SI	28	9699			>1.9 E-12		S				DOS		CAN. J. PHYS.	47	1725	1969
14	SI	28	10213			1.0 E-14	5	S				DOS		PHYS.REV.	172	1004	1969
14	SI	28	10720			<4.2 E-15		S				DOS		NUCL.PHYS.	A136	663	1969
14	SI	29	1273			2.98E-13	35	S				DOS		PHYS.LETT.	308	94	1969
14	SI	29	1280			2.56E-13	35	S				DOS		PHYS.REV.	181	1580	1969
14	SI	29	1280			2.15E-13	20	S				DOS		PHYS.REV.	170	1046	1968
14	SI	29	2030			2.56E-13	42	S				DOS		PHYS.REV.	181	1580	1969
14	SI	29	2030			2.42E-13	55	S				DOS		PHYS.REV.	170	1046	1968
14	SI	29	2430			1.4 E-14	5	S				DOS		PHYS.REV.	170	1046	1968
14	SI	29	3070			1.6 E-14	8	S				DOS		PHYS.REV.	170	1046	1968
14	SI	29	3620			3.3 E-12	14	S				DOS		PHYS.REV.	181	1580	1969
14	SI	29	4080			4.9 E-14	14	S				DOS		PHYS.REV.	181	1580	1969
14	SI	29	4840			<9.0 E-15		S				DOS		PHYS.REV.	181	1580	1969
15	P	29	1381			1.98E-13	55	S				DOS		NUCL.PHYS.	A136	145	1969
15	P	29	1384			1.25E-13	21	S				DOS		PHYS.LETT.	308	94	1969
15	P	29	1955			2.01E-13	49	S				DOS		NUCL.PHYS.	A136	145	1969
14	SI	30	2235	2+		2.7 E-13	2	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	2240			2.33E-13	17	S				DOS		NUCL.PHYS.	A135	325	1969
14	SI	30	3498	2+		7.6 E-14	21	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	3769	1+		5.1 E-14	13	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	3788	0+		>4.2 E-12		S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	4809	2+		1.39E-13	14	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	4830			8.7 E-14	17	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	5280	4+		9.7 E-14	17	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	5487	3-		8.2 E-14	17	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	5612	2+		<1.4 E-14		S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	5950			2.9 E-14	13	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	6503			2.84E-13	35	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	6640	0+		2.8 E-14	10	S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	6865			<2.4 E-14		S				DOS		INT.CONF.MONTREAL		113	1969
14	SI	30	7044			9.0 E-13	10	S				DOS		INT.CONF.MONTREAL		113	1969
15	P	30	677	0+		1.11E-13	14	S				DOS		INT.CONF.MONTREAL		113	1969

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
15	P	30	709		1.52E-11	35	S					DOS	BULL.AM.	14	125	1969	
15	P	30	1453	2+	5.1 E-12	11	S					DOS	BULL.AM.	14	628	1969	
15	P	30	1454	2+	1.87E-12	35	S					DOS	INT.CONF.MONTREAL		113	1969	
15	P	30	1454		5.6 E-12	35	S					DOS	BULL.AM.	14	125	1969	
15	P	30	1972	3+	1.21E-12	28	S					DOS	INT.CONF.MONTREAL		113	1969	
15	P	30	1973		>5.6 E-12		S					DOS	BULL.AM.	14	125	1969	
15	P	30	1974	3+	4.9 E-12	12	S					DOS	BULL.AM.	14	628	1969	
15	P	30	2538	3+	1.56E-13	14	S					DOS	INT.CONF.MONTREAL		113	1969	
15	P	30	2723		1.18E-13	24	S					DOS	INT.CONF.MONTREAL		113	1969	
15	P	30	2839		8.7 E-13	14	S					DOS	INT.CONF.MONTREAL		113	1969	
15	P	30	2839		2.1 E-12	10	S					DOS	BULL.AM.	14	125	1969	
15	P	30	2937		6.1 E-14	10	S					DOS	INT.CONF.MONTREAL		113	1969	
15	P	30	3018		<2.1 E-14		S					DOS	INT.CONF.MONTREAL		113	1969	
15	P	31	500		5.5 E-13	6	S					DOS	PHYS.LETT.	288	480	1969	
15	P	31	1270		2.6 E-13	2	S					DOS	PHYS.LETT.	288	480	1969	
15	P	31	7140	1/2				1.52	15			RS	BULL.AM.	14	1203	1969	
15	P	32	77	2+	3.6 E-10	5	S			M1		TM	PHYS.REV.	165	1214	1968	
16	S	32	2232	2+	2.1 E-13	6	S					DOS	PHYS.LETT.	288	480	1969	
16	S	32	2237		1.80E-13	55	S					DOS	NUCL.PHYS.	A135	281	1969	
16	S	32	3775		3.6 E-13	14	S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	4280		2.0 E-14	2	S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	4287		3.5 E-14	9	S					DOS	NUCL.PHYS.	A135	281	1969	
16	S	32	4460		9.0 E-14	21	S					DOS	PHYS.LETT.	298	108	1969	
16	S	32	4694		3.68E-13	35	S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	4698		1.2 E-13	7	S					DOS	NUCL.PHYS.	A135	281	1969	
16	S	32	5006		1.0 E-12		S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	5012		1.73E-13	35	S					DOS	NUCL.PHYS.	A135	281	1969	
16	S	32	5410		6.73E-14	35	S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	5544		3.0 E-14	24	S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	5553		4.7 E-14	8	S					DOS	NUCL.PHYS.	A135	281	1969	
16	S	32	6226		7.6 E-14	28	S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	6226		4.2 E-14	10	S					DOS	NUCL.PHYS.	A135	281	1969	
16	S	32	6621		>7.0 E-13		S					DOS	NUCL.PHYS.	A135	281	1969	
16	S	32	6623		2.6 E-13	6	S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	6664		3.7 E-14	7	S					DOS	PHYS.REV.	181	1555	1969	
16	S	32	7952		<7.0 E-15		S					DOS	PHYS.REV.	181	1555	1969	
15	P	33	1440		5.5 E-13	16	S					DOS	PHYS.LETT.	288	480	1969	
15	P	33	1850		9.4 E-13	12	S					DOS	PHYS.LETT.	288	480	1969	
16	S	33	840		1.2 E-12	5	S					DOS	NUCL.PHYS.	A138	601	1969	
16	S	33	842		1.15E-12	23	S					DOS	PHYS.REV.	188	1806	1969	

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
16	S	33	1968		1.26E-13	15	S				DOS		PHYS.REV.	188	1806	1969	
16	S	33	1970		1.04E-13	31	S				DOS		NUCL.PHYS.	A138	601	1969	
16	S	33	2310		9.7 E-14	21	S				DOS		NUCL.PHYS.	A138	601	1969	
16	S	33	2313		1.27E-13	17	S				DOS		PHYS.REV.	188	1806	1969	
16	S	33	2869		<1.0 E-14		S				DOS		PHYS.REV.	188	1806	1969	
16	S	33	2870		9.0 E-15	35	S				DOS		NUCL.PHYS.	A138	601	1969	
16	S	33	2930	7/2-	2.6 E-11	8	S				DOS		PHYS.LETT.	308	342	1969	
16	S	33	2937		>2.8 E-12		S				DOS		PHYS.REV.	188	1806	1969	
16	S	33	2940		>4.85E-12		S				DOS		NUCL.PHYS.	A138	601	1969	
16	S	33	2970		6.0 E-14	17	S				DOS		NUCL.PHYS.	A138	601	1969	
16	S	33	2970		5.7 E-14	8	S				DOS		PHYS.REV.	188	1806	1969	
16	S	33	3220		1.9 E-14	6	S				DOS		NUCL.PHYS.	A138	601	1969	
16	S	33	3221		<J.5 E-14		S				DOS		PHYS.REV.	188	1806	1969	
16	S	34	2126		2.4 E-13	4	S				DOS	AMBIG	NUCL.PHYS.	A127	13	1969	
16	S	34	2127	2+	3.67E-14	38	S				DOS	AMBIG	INT.CONF.MONTREAL		114	1969	
16	S	34	2127		4.43E-13	99	S				DOS		EVERS THESIS			1968	
16	S	34	3300		8.3 E-14	21	S				DOS	AMBIG	NUCL.PHYS.	A127	13	1969	
16	S	34	3303	2+	1.57E-14	31	S				DOS		INT.CONF.MONTREAL		114	1969	
16	S	34	3304		1.56E-13	31	S				DOS		EVERS THESESES			1968	
16	S	34	3915	0+	1.23E-12	42	S				DOS		INT.CONF.MONTREAL		114	1969	
16	S	34	4075		<3.2 E-14		S				DOS		INT.CONF.MONTREAL		114	1969	
16	S	34	4116	2+	6.8 E-14	31	S				DOS		INT.CONF.MONTREAL		114	1969	
16	S	34	4623	3-	8.6 E-14	27	S				DOS		INT.CONF.MONTREAL		114	1969	
16	S	34	4688		8.5 E-14	24	S				DOS		INT.CONF.MONTREAL		114	1969	
16	S	34	4874		<4.7 E-14		S				DOS		INT.CONF.MONTREAL		114	1969	
16	S	34	4892		<2.4 E-14		S				DOS		INT.CONF.MONTREAL		114	1969	
17	CL	35	1219		1.45E-13	62	S				DOS		CAN.J.PHYS.	47	1295	1969	
17	CL	35	1219		1.46E-13	62	S				DOS		BULL.AM.	14	125	1969	
17	CL	35	1222		1.18E-13	24	S				DOS		BULL.AM.	14	1222	1969	
17	CL	35	1761		>1.4 E-13		S				DOS		BULL.AM.	14	1222	1969	
17	CL	35	1763		3.8 E-13	10	S				DOS		CAN.J.PHYS.	47	1295	1969	
17	CL	35	1763		3.8 E-13	10	S				DOS		BULL.AM.	14	125	1969	
17	CL	35	2646		2.08E-13	62	S				DOS		CAN.J.PHYS.	47	1295	1969	
17	CL	35	2646		2.1 E-13	6	S				DOS		BULL.AM.	14	125	1969	
17	CL	35	2695		<2.1 E-14		S				DOS		CAN.J.PHYS.	47	1295	1969	
17	CL	35	2695		<2.1 E-14		S				DOS		BULL.AM.	14	125	1969	
17	CL	35	2695		3.1 E-14	6	S				DOS		BULL.AM.	14	1222	1969	
17	CL	35	3003		<3.5 E-14		S				DOS		CAN.J.PHYS.	47	1295	1969	
17	CL	35	3003		<3.5 E-14		S				DOS		BULL.AM.	14	125	1969	
17	CL	35	3004		6.0 E-14	24	S				DOS		BULL.AM.	14	1222	1969	

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
17	CL	35	3004		6.0 E-14	24	S					DOS	BULL.AM.	14	1222	1969	
17	CL	35	3162		>2.1 E-12		S					DOS	BULL.AM.	14	1222	1969	
17	CL	35	3163		9.7 E-11	3	S			M2, E1		TM	NUCL.PHYS.	A109	577	1968	
17	CL	35	3163		4.2 E-11	5	S					DOS	BULL.AM.	14	125	1969	
17	CL	35	4174		4.7 E-14	13	S					DOS	BULL.AM.	14	1222	1969	
17	CL	35	5220		7.6 E-14	21	S					DOS	BULL.AM.	14	1222	1969	
18	AR	36	1972		3.2 E-13	8	S					DOS	NUCL.PHYS.	A127	13	1969	
17	CL	37	3105		1.56E-10	18	S					TM	CONF.BOMBAY		289	1968	
18	AR	37	1611		5.15E-9	70	S					DOS	PHYS.LETT.	248	507	1967	
19	K	37	1380		9.6 E-9	14	S			M2		CE	PHYS.REV.	163	1219	1967	
18	AR	38	2163		3.1 E-13	8	S					DOS	NUCL.PHYS.	A127	13	1969	
18	AR	38	2168		4.16E-13	95	S					DOS	EVERS THESIS			1968	
18	AR	38	2170		3.74E-13	45	S					DOS	NUCL.PHYS.	A138	588	1969	
18	AR	38	3380		4.9 E-12	28	S					DOS	NUCL.PHYS.	A138	588	1969	
18	AR	38	3770		2.2 E-10	2	S					TM	CONF.BOMBAY		289	1968	
18	AR	38	3810		5.2 E-14	21	S					DOS	NUCL.PHYS.	A138	588	1969	
18	AR	38	3940		3.2 E-14	13	S					DOS	NUCL.PHYS.	A138	588	1969	
18	AR	38	4480		<1.0 E-12		S					DOS	NUCL.PHYS.	A138	588	1969	
18	AR	38	4570		1.7 E-14	17	S					DOS	NUCL.PHYS.	A138	588	1969	
19	K	39	2530		7.3 E-14	22	S					DOS	NUCL.PHYS.	A132	481	1969	
19	K	39	2817		<7.8 E-11		S					TM P,G	NUCL.PHYS.	A129	129	1969	
19	K	39	2820		>4.2 E-12		S					DOS	NUCL.PHYS.	A132	481	1969	
19	K	39	3020		<3.8 E-14		S					DOS	NUCL.PHYS.	A132	481	1969	
19	K	40	29		4.26E-9	8	S					TM G,G	CAN.J.PHYS.	47	591	1969	
20	CA	40	3736		>2.4 E-12		S					DOS	PHYS.REV.	181	1606	1969	
20	CA	40	3904	2+	1.3 E-14	4	S					DOS	PHYS.REV.	175	1446	1968	
20	CA	40	3904		4.9 E-14	35	S					DOS	PHYS.REV.	181	1606	1969	
20	CA	40	3904		4.4 E-14	13	S					DOS	NUCL.PHYS.	A108	6	1968	
20	CA	40	4490	5-	2.70E-10	14	S					TM P,G	BULL.AM.	14	629	1969	
20	CA	40	4492		>4.9 E-12		S					DOS	PHYS.REV.	181	1606	1969	
20	CA	40	4492		3.8 E-10	2	S					TM	PRIV.COM. 1			1969	
20	CA	40	5212		1.02E-12	21	S					DOS	PHYS.REV.	181	1606	1969	
20	CA	40	5249		1.04E-13	49	S					DOS	PHYS.REV.	181	1606	1969	
20	CA	40	5249		1.32E-13	21	S					DOS	NUCL.PHYS.	A108	6	1968	
20	CA	40	5279		2.84E-13	69	S					DOS	PHYS.REV.	181	1606	1969	
20	CA	40	5279		1.8 E-13	6	S					DOS	NUCL.PHYS.	A108	6	1968	
20	CA	40	5280	4+	1.6 E-13	7	S					DOS	PHYS.REV.	175	1446	1968	
20	CA	40	5615	4-	>5.5 E-13		S					DOS	PHYS.REV.	175	1446	1968	
20	CA	40	5615		5.7 E-13	14	S					DOS	PHYS.REV.	181	1606	1969	
20	CA	40	5627		<7.0 E-14		S					DOS	PHYS.REV.	181	1606	1969	

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
20	CA	40	5900		<7.0 E-14	S						DOS		PHYS.REV.	181	1606	1969
20	CA	40	6025		1.18E-13	62 S						DOS		PHYS.REV.	181	1606	1969
20	CA	40	6029		3.0 E-13	10 S						DOS		PHYS.REV.	181	1606	1969
20	CA	40	6285	3-	2.6 E-13	8 S						DOS		PHYS.REV.	175	1446	1968
20	CA	40	6285		4.0 E-13	7 S						DOS		PHYS.REV.	181	1606	1969
20	CA	40	7465		6.9 E-15	4 S						DOS		PHYS.REV.	175	1446	1968
20	CA	40	7562		1.8 E-13	7 S						DOS		PHYS.REV.	175	1446	1968
18	AR	41	518		3.4 E-10	2 S						TM		PHYS.LETT.	24B	38	1967
19	K	41	1290	7/2-	7.3 E- 9	2 S						TM P,G		PHYS.LETT.	28B	651	1969
19	K	41	1290		6.67E- 9	10 S						TM		CONF.BOMBAY		289	1968
20	CA	41	1943		3.2 E-13	7 S						DOS		BULL.AM.	14	1203	1969
20	CA	41	2462		>4.8 E-13	S						DOS		BULL.AM.	14	1203	1969
20	CA	41	2884		1.3 E-13	6 S						DOS		BULL.AM.	14	1203	1969
20	CA	42	1520	2+	5.2 E-13	21 S						DOS		NUCL.PHYS.	A123	437	1969
20	CA	42	2420	2+	1.1 E-13	3 S						DOS		NUCL.PHYS.	A123	437	1969
20	CA	42	2422		2.1 E-13	2 S						DOS		PHYS.REV.	177	1725	1969
20	CA	42	2750	4+	2.3 E-12	10 S						DOS	AMBIG	PHYS.REV.	177	1725	1969
20	CA	42	2750	4+	2.4 E-11	7 S						DOS	AMBIG	NUCL.PHYS.	A123	437	1969
20	CA	42	3185	6+	8.0 E- 9	5 S			E2		TM A,G			AFI ANNUAL REPORT		71	1969
20	CA	42	3190	6+	3.7 E- 9	5 S						DOS		NUCL.PHYS.	A123	437	1969
20	CA	42	3190	6+	5.35E- 9	18 S						TM		PHYS.REV.	181	1552	1969
20	CA	42	3250		2.1 E-13	8 S						DOS		PHYS.REV.	177	1725	1969
20	CA	42	3250		1.04E-13	28 S						DOS		NUCL.PHYS.	A123	437	1969
20	CA	42	3297		2.4 E-12	S						DOS		PHYS.REV.	177	1725	1969
20	CA	42	3389		2.25E-13	52 S						DOS		PHYS.REV.	177	1725	1969
20	CA	42	3440	3-	2.5 E-13	7 S						DOS		NUCL.PHYS.	A123	437	1969
20	CA	42	3442		9.4 E-13	70 S						DOS		PHYS.REV.	177	1725	1969
20	CA	42	3651		4.2 E-14	42 S						DOS		PHYS.REV.	177	1725	1969
20	CA	43	594		<1.7 E-10	S						TM		PHYS.LETT.	24B	38	1967
20	CA	43	993		1.3 E-10	S				M1+E2		TM		BULL.AM.	10	119	1965
21	SC	43	472		5.2 E-10	15 S						DOS	AMBIG	PHYS.LETT.	25B	328	1967
21	SC	43	472		1.57E-10	13 S						TM	AMBIG	NUCL.PHYS.	A115	204	1968
21	SC	43	856		1.9 E-12	8 S						DOS		BULL.AM.	14	1203	1969
21	SC	43	880		>7.0 E-13	S						DOS		BULL.AM.	14	1203	1969
21	SC	43	1158		1.1 E-12	6 S						DOS		BULL.AM.	14	1203	1969
21	SC	43	1336		>1.4 E-12	S						DOS		BULL.AM.	14	1203	1969
21	SC	43	1410		8.6 E-13	52 S						DOS		BULL.AM.	14	1203	1969
21	SC	43	1930		9.7 E-13	48 S						DOS		BULL.AM.	14	1203	1969
21	SC	43	2143		5.9 E-13	24 S						DOS		BULL.AM.	14	1203	1969
21	SC	44	146		7.2 E- 5	S						TM		REV.ROUM.P.	13	911	1968

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
20	CA	45	174		4.0 E-10	4	S						TM P,G	NUCL.PHYS.	A129	129	1969
20	CA	45	1943		3.2 E-13	7	S						DOS	BULL.AM.	14	1203	1969
20	CA	45	2462		>4.9 E-13		S						DOS	BULL.AM.	14	1203	1969
20	CA	45	2884		1.3 E-13	5	S						DOS	BULL.AM.	14	1203	1969
20	CA	45	3945		<1.3 E-14		S						DOS	BULL.AM.	14	1203	1969
21	SC	45	13		3.0 E-1		S				M2	TM		PHYS.LETT.	12	26	1964
21	SC	45	13		3.25E-1	4	S				M2+E3	CE		PHYS.REV.	159	926	1967
21	SC	45	376		6.1 E-11	9	S	B(E2)↑	6.1 E-3	10		CE		PHYS.REV.	159	926	1967
21	SC	45	376	3/2-				B(E2)↑	7.0 E-3	7		CE		NUCL.PHYS.	A132	369	1969
21	SC	45	378					B(E2)↑	8.6 E-3			CE		NUCL.PHYS.	A101	654	1967
21	SC	45	720					B(E2)↑	8.1 E-3	20		CE		NUCL.PHYS.	A132	369	1969
21	SC	45	1237					B(E2)↑	3.3 E-2	10		CE		NUCL.PHYS.	A132	369	1969
22	TI	45	40		1.15E-8	15	S						TM P,G	LETT.NUOVO.CIM.	1	174	1969
21	SC	46	52		8.8 E-6	4	S						TM	PHYS.REV.	168	1200	1968
21	SC	46	228		<2.7 E-10		S						TM	PHYS.REV.	168	1200	1968
21	SC	46	281		<2.7 E-10		S						TM	PHYS.REV.	168	1200	1968
21	SC	46	290		<3.8 E-10		S						TM	PHYS.REV.	168	1200	1968
21	SC	46	444		<2.7 E-10		S						TM	PHYS.REV.	168	1200	1968
21	SC	46	585		<2.7 E-10		S						TM	PHYS.REV.	168	1200	1968
21	SC	46	627		<2.0 E-10		S						TM	PHYS.REV.	168	1200	1968
21	SC	46	835		<2.0 E-10		S						TM	PHYS.REV.	168	1200	1968
21	SC	47	760		2.74E-7	10	S						TM	PHYS.REV.	168	1228	1968
22	TI	48	2420	2+	1.1 E-14	11	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3000	0+	8.7 E-14	17	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3224	4+	1.7 E-14	10	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3240		6.9 E-14	28	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3336		2.22E-13	31	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3360		1.73E-13	24	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3367	2+	1.52E-14	80	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3630	2+	1.04E-14	21	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3702		2.42E-14	21	S						DOS	PHYS.REV.	180	971	1969
22	TI	48	3740		1.11E-14	21	S						DOS	PHYS.REV.	180	971	1969
21	SC	49	2230		2.99E-8	11	S						TM	PHYS.LETT.	27B	81	1968
21	SC	49	2370		1.40E-9	9	S						TM	PHYS.LETT.	27B	81	1968
23	V	51	320		1.94E-10	35	S						TM	PHYS.REV.	182	1165	1969
24	CR	53	565	1/2-				B(E2)↑	1.1 E-2	2			CE	SOV.NUCLPH.	9	133	1969
24	CR	53	1010	5/2-				B(E2)↑	2.0 E-3	6			CE	SOV.NUCLPH.	9	133	1969
24	CR	53	1290	7/2-				B(E2)↑	2.4 E-2	6			CE	SOV.NUCLPH.	9	133	1969
24	CR	53	1540	7/2-				B(E2)↑	2.2 E-3	9			CE	SOV.NUCLPH.	9	133	1969
25	MN	56	24		9.6 E-9	7	S						TM	NABIELEK THESIS	61	1968	

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Z	EL.	A	E (KEV)	I	PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR
25	MN	56	108			5.63E-9	45 S					TM		NABIELEK THESIS		61	1968
25	MN	56	211			5.50E-10	62 S					TM		NABIELEK THESIS		61	1968
26	FE	56	847			6.0 E-12	10 S	B(E2)↑	1.09E-1	15		CE		NUCL.PHYS.	A137	658	1969
26	FE	56	847			7.1 E-12	14 S					DOS		NUCL.PHYS.	A137	658	1969
26	FE	56	2085	4+		6.9 E-13	35 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	2657	2+		2.9 E-14	7 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	2940	0+		1.5 E-13	7 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	2959	2+		2.7 E-14	8 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3120			2.4 E-14	10 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3123	4+		4.5 E-14	5 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3369	2+		1.8 E-14	7 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3445	3+		<2.8 E-14	S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3452	1+		<1.2 E-14	S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3599	0+		<5.9 E-14	S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3605	2+		1.2 E-13	6 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3829	2+		4.3 E-14	14 S					DOS		PHYS.REV.	188	1706	1969
26	FE	56	3856	3+		2.3 E-14	13 S					DOS		PHYS.REV.	188	1706	1969
26	FE	57	136					B(E2)↑	2.6 E-2	3		CE		SOV.NUCLPH.	9	133	1969
26	FE	57	136			9.6 E-9	14 S	B(E2)↑	4.0 E-2	6		CE		NUCL.PHYS.	A137	658	1969
26	FE	57	367					B(E2)↑	2.2 E-2	5		CE		SOV.NUCLPH.	9	133	1969
26	FE	57	367					B(E2)↑	4.0 E-2	7		CE		NUCL.PHYS.	A137	658	1969
26	FE	57	367			6.9 E-12	14 S					DOS		NUCL.PHYS.	A137	658	1969
26	FE	57	706					B(E2)↑	1.1 E-2	3		CE		SOV.NUCLPH.	9	133	1969
26	FE	57	707			2.8 E-12	7 S	B(E2)↑	1.3 E-2	2		CE		NUCL.PHYS.	A137	658	1969
26	FE	57	707			4.1 E-12	10 S					DOS		NUCL.PHYS.	A137	658	1969
27	CO	57	1378			1.94E-11	35 S					TM		J.PHYS.RAD.	29	98	1968
28	NI	58	1454			6.4 E-13	8 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	2459			>9.7 E-13	S					DOS		PHYS.REV.	183	964	1969
28	NI	58	2775			3.8 E-13	11 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	3037			3.95E-14	52 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	3263			2.50E-14	35 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	3420			2.6 E-13	14 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	3531			1.94E-13	55 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	3593			3.33E-14	82 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	3620			1.1 E-13	7 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	3898			2.29E-14	28 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	4107			6.52E-14	97 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	4299			2.4 E-14	20 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	4347			1.7 E-14	14 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	4405			4.3 E-14	15 S					DOS		PHYS.REV.	183	964	1969

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Z	EL.	A	E (KEV)	I	PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR
28	NI	58	4475			1.87E-14	77 S					DOS		PHYS.REV.	183	964	1969
28	NI	58	4536			3.1 E-14	10 S					DOS		PHYS.REV.	183	964	1969
27	CO	59	1097					B(E2)↑	5.0 E-3	10		CE		SOV.NUCLPH.	9	133	1969
27	CO	59	1098			<1.4 E-11	S					TM		J.PHYS.RAD.	29	98	1968
27	CO	59	1100			<1.5 E-10	S					TM		INT.CONF.EREVAN		42	1969
27	CO	59	1189					B(E2)↑	2.3 E-2	4		CE		SOV.NUCLPH.	9	133	1969
27	CO	59	1289					B(E2)↑	7.0 E-4	30		CE		INT.CONF.EREVAN		41	1969
27	CO	59	1290			5.1 E-10	5 S					TM		INT.CONF.EREVAN		42	1969
27	CO	59	1458					B(E2)↑	7.0 E-3	20		CE		INT.CONF.EREVAN		41	1969
27	CO	59	1480					B(E2)↑	1.0 E-3	4		CE		INT.CONF.EREVAN		41	1969
27	CO	59	1743					B(E2)↑	3.0 E-3	10		CE		INT.CONF.EREVAN		41	1969
28	NI	60	1333					B(E2)↑	9.14E-2	20		CE		NUCL.PHYS.	A133	445	1969
28	NI	60	2160			>1.4 E-12	S					DOS		PHYS.REV.	183	964	1969
28	NI	61	67			5.01E-9	21 S					TM		PHYS.REV.	182	1165	1969
28	NI	61	283					B(E2)↑	2.0 E-4	6		CE		SOV.NUCLPH.	9	133	1969
28	NI	61	656					B(E2)↑	5.6 E-3	11		CE		SOV.NUCLPH.	9	133	1969
28	NI	61	910					B(E2)↑	3.0 E-3	10		CE		SOV.NUCLPH.	9	133	1969
28	NI	61	1020					B(E2)↑	6.0 E-3	20		CE		SOV.NUCLPH.	9	133	1969
28	NI	61	1100					B(E2)↑	3.6 E-3	13		CE		SOV.NUCLPH.	9	133	1969
28	NI	61	1132					B(E2)↑	8.0 E-3	30		CE		SOV.NUCLPH.	9	133	1969
28	NI	62	2300			7.7 E-13	24 S					DOS		PHYS.REV.	183	964	1969
29	CU	62	42			2.5 E-9	1 S					TM		PHYS.REV.	169	889	1968
29	CU	62	42	2+		4.77E-9	10 S				M1	TM		INT.CONF.MONTREAL		107	1969
29	CU	65	1116			2.63E-13	17 S				M1+E2	RS		PHYS.REV.	171	1257	1968
30	ZN	65	115			4.6 E-10	7 S					TM		PHYS.REV.	168	1193	1968
30	ZN	66	7368					∞	2.2 E-1	2		RS		J.PHYJAPAN	27	273	1969
31	GA	66	44			2.1 E-8	2 S					TM		PHYS.REV.	180	987	1969
31	GA	66	44			1.2 E-8	1 S					TM		PHYS.REV.	184	1142	1969
31	GA	66	109			1.2 E-9	2 S					TM		PHYS.REV.	184	1142	1969
32	GE	67	166			<2.2 E-10	S					TM		PHYS.REV.	177	1686	1969
31	GA	69	320			<7.0 E-11	S					TM		PHYS.REV.	182	1165	1969
32	GE	69	87			5.1 E-6	S					TM	G,G	BULL.AM.	14	551	1969
32	GE	69	233			1.75E-10	S					TM	G,G	BULL.AM.	14	551	1969
32	GE	70	563					B(E2)↑	2.60E-1	5		CE		NUCL.PHYS.	A138	529	1969
32	GE	70	1040					B(E2)↑	1.79E-1	3		CE		NUCL.PHYS.	A138	529	1969
32	GE	70	1216	0+				B(E2)↑	7.50E-2	85		CE		INT.CONF.MONTREAL		142	1969
31	GA	72	17			3.92E-9	70 S					TM		NUCL.PHYS.	A137	281	1969
31	GA	72	119			3.45E-2	56 S					TM		NUCL.PHYS.	A137	281	1969
31	GA	72	161			5.9 E-10	3 S					TM		NUCL.PHYS.	A137	281	1969
31	GA	72	208			<1.9 E-10	S					TM		NUCL.PHYS.	A137	281	1969

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
32	GE	72	690	0+	4.22E-7	13 S							TM	NUCL.PHYS.	A120	622	1969
33	AS	75	199				B(E2)↑	1.5 E-2					CE	NUCL.PHYS.	A101	654	1967
33	AS	75	199		9.0 E-10	17 S							TM	PHYS.REV.	182	1165	1969
33	AS	75	199		9.7 E-10	6 S							TM	INT.CONF.EREVAN		46	1969
33	AS	75	199		7.5 E-10	15 S							TM	CONF.BOMBAY		298	1968
33	AS	75	280				B(E2)↑	5.1 E-2					CE	NUCL.PHYS.	A101	654	1967
33	AS	75	280		2.2 E-10	10 S							CE	NUCL.PHYS.	A104	401	1967
33	AS	75	280		2.8 E-10	2 S							TM	NUCL.PHYS.	A133	691	1969
33	AS	75	280		2.95E-10	55 S							TM	PHYS.REV.	182	1165	1969
33	AS	75	280		5.6 E-10	5 S							TM	INT.CONF.EREVAN		46	1969
33	AS	75	280		3.66E-10	20 S							TM	J.PHYS.RAD.	29	99	1968
33	AS	75	304		1.63E-2	26 S							TM	LYCEN-6924			1969
33	AS	75	401		1.67E-9	14 S							TM	NUCL.PHYS.	A133	691	1969
33	AS	75	401		1.6 E-9	1 S							TM	INT.CONF.EREVAN		46	1969
33	AS	75	572		2.4 E-12	6 S							CE	NUCL.PHYS.	A104	401	1967
33	AS	75	617		<2.0 E-10	S							TM	INT.CONF.EREVAN		46	1969
33	AS	75	822		2.4 E-12	2 S							CE	NUCL.PHYS.	A104	401	1967
33	AS	75	865				$\frac{I_0}{I_c}$	1.5		5			RS	INT.CONF.MONTREAL		126	1969
33	AS	75	1075				$\frac{I_0}{I_c}$	7.3		23			RS	INT.CONF.MONTREAL		126	1969
34	SE	75	287	1/2-	3.00E-8	4 S							TM	AMBIG ZEIT.PHYS.	217	1	1968
34	SE	75	287		1.23E-9	15 S							TM	AMBIG NUCL.PHYS.	A138	49	1969
33	AS	76	46		1.34E-6	4 S							TM	CAN.J.PHYS.	46	1984	1968
34	SE	77	239	3/2-			B(E2)↑	1.3 E-1		3			CE	BULL.USSR	32	205	1968
34	SE	77	249	5/2-			B(E2)↑	4.3 E-3		15			CE	BULL.USSR	32	205	1968
34	SE	77	440	5/2-			B(E2)↑	2.1 E-1		4			CE	BULL.USSR	32	205	1968
34	SE	77	520		1.0 E-10	S							RS	NUCL.PHYS.	A137	520	1969
34	SE	77	521	3/2-			B(E2)↑	2.7 E-2		7			CE	BULL.USSR	32	205	1968
34	SE	77	819		~1.0 E-11	S							RS	NUCL.PHYS.	A137	520	1969
34	SE	77	1006		4.0 E-12	S							RS	NUCL.PHYS.	A137	520	1969
35	BR	78	176		1.23E-4	S							TM	REV.ROUM.P.	13	911	1968
35	BR	79	217		<1.4 E-10	S							TM	PHYS.REV.	182	1165	1969
35	BR	79	261		9.1 E-10	8 S							TM	INT.CONF.EREVAN		47	1969
36	KR	79	148		7.77E-8	15 S					E2		TM	PHYS.LETT.	268	134	1968
35	BR	81	276				B(E2)↑	4.1 E-2		4			CE	CAN.J.PHYS.	47	2255	1969
37	RB	83	42		7.8 E-3	7 S					M2		TM	INT.CONF.TOKYO		169	1967
37	RB	83	94		1.2 E-9	S							TM	INT.CONF.TOKYO		169	1967
37	RB	83	99	1/2-	<1.5 E-10	S							TM	INT.CONF.MONTREAL		46	1969
37	RB	83	389	3/2-	<1.2 E-10	S							TM	INT.CONF.MONTREAL		46	1969
37	RB	83	423	5/2+	<1.5 E-10	S							TM	INT.CONF.MONTREAL		46	1969
37	RB	83	805	7/2+	<6.0 E-11	S							TM	INT.CONF.MONTREAL		46	1969

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUF	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
37	RB	84	250		3.08E-10	55	S				E1	TM	PHYS.REV.	166	1227	1968	
37	RB	85	150		7.0 E-10	10	S					TM	PHYS.REV.	182	1165	1969	
37	RB	85	870					B(E2)↑	3.3 E-2	7		CE	BULL.USSR	32	205	1968	
38	SR	88	2730		<1.0 E-10		S					TM	CONF.BOMBAY		289	1968	
41	NB	90	122*		1.88E+ 1	1	S					DEC	CAN.J.PHYS.	47	949	1969	
38	SR	91	93		9.1 E- 8	5	S					TM	INT.CONF.MONTREAL		119	1969	
40	ZR	91	1210					B(E2)↑	9.0 E-3	4		CE	SOV.NUCLPH	9	133	1969	
40	ZR	92	934					B(E2)↑	7.9 E-2	7		CE	SOV.NUCLPH	9	133	1969	
40	ZR	92	1380	0+	1.66E-10	28	S					TM	BULL.AM.	14	1204	1969	
42	MO	92	1520					B(E2)↑	1.9 E-1	8		CE	JETP	16	1406	1963	
42	MO	92	2761	8+	2.2 E- 7	3	S				E2	TM	PHYS.LETT.	298	179	1969	
42	MO	92	4487	11-	8.8 E- 9	5	S				E2	TM	PHYS.LETT.	298	179	1969	
40	ZR	93	267		1.45E- 9	5	S					TM	CAN.J.PHYS.	46	2321	1968	
40	ZR	94	920					B(E2)↑	5.6 E-2	6		CE	SOV.NUCLPH	9	133	1969	
40	ZR	94	1300	0+	3.20E-10	21	S					TM	BULL.AM.	14	1204	1969	
44	RU	94	2495	6+	7.4 E- 8	7	S				E2	TM	PHYS.LETT.	298	179	1969	
44	RU	94	2640	8+	7.1 E- 5	5	S				E2	TM	PHYS.LETT.	298	179	1969	
43	TC	99	140		1.92E-10	10	S					MOS	ZEIT.PHYS.	221	281	1969	
43	TC	101	210		8.62E- 4		S					TM	REV.ROUM.P.	13	911	1968	
45	RH	103	93		<2.8 E-10		S					TM	NUCL.PHYS.	A130	293	1969	
45	RH	103	295					B(E2)↑	2.09E-1			CE	NUCL.PHYS.	A125	545	1969	
45	RH	103	356					B(E2)↑	3.78E-1			CE	NUCL.PHYS.	A125	545	1969	
45	RH	103	537		6.8 E-10	4	S					TM	AMBIG INT.CONF.EREVAN		64	1969	
45	RH	103	538		3.86E-11	13	S					TM	AMBIG PHYS.REV.	168	1406	1968	
45	RH	103	538		9.0 E-12	30	S					TM	AMBIG INT.CONF.EREVAN		65	1969	
45	RH	103	650		<1.0 E-10		S					TM	INT.CONF.EREVAN		64	1969	
45	RH	103	843					B(E2)↑	5.5 E-3			CE	NUCL.PHYS.	A125	545	1969	
45	TH	103	877					B(E2)↑	1.33E-2			CE	NUCL.PHYS.	A125	545	1969	
45	RH	103	915					B(E2)↑	2.6 E-3			CE	NUCL.PHYS.	A125	545	1969	
45	RH	103	1102					B(E2)↑	1.0 E-3			CE	NUCL.PHYS.	A125	545	1969	
45	RH	103	1247					B(E2)↑	1.31E-2			CE	NUCL.PHYS.	A125	545	1969	
46	PD	103	118	3/2+	1.9 E- 9	4	S				M1	TM	CAN.J.PHYS.	47	419	1969	
46	PD	103	119		7.0 E-10	3	S					TM	PHYS.LETT.	288	415	1969	
46	PD	104	556	2+				B(E2)↑	5.1 E-1	5		E2	CE	INT.CONF.MONTREAL		99	1969
46	PD	105	280	3/2+				B(E2)↑	2.0 E-3	10		CE	IZV.SSSR.	32	1676	1968	
46	PD	105	306	7/2+				B(E2)↑	4.0 E-3	10		CE	IZV.SSSR.	32	1676	1968	
46	PD	105	319	5/2+				B(E2)↑	8.0 E-3	20		CE	IZV.SSSR.	32	1676	1968	
46	PD	105	344	1/2+				B(E2)↑	2.0 E-2	4		CE	IZV.SSSR.	32	1676	1968	
46	PD	105	345	1/2+	8.01E-10	64	S					TM	J.PHYJAPAN	26	849	1969	
46	PD	105	443					B(E2)↑	1.8 E-1	4		CE	IZV.SSSR.	32	1676	1968	

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
46	PD	105	560				B(E2)↑	6.0 E-3	20		CE		IZV. SSSR.	32	1676	1968	
46	PD	105	650				B(E2)↑	1.7 E-2	5		CE		IZV. SSSR.	32	1676	1968	
46	PD	105	673				B(E2)↑	5.0 E-3	30		CE		IZV. SSSR.	32	1676	1968	
46	PD	105	726				B(E2)↑	1.0 E-2	3		CE		IZV. SSSR.	32	1676	1968	
46	PD	105	785				B(E2)↑	5.0 E-2	10		CE		IZV. SSSR.	32	1676	1968	
46	PD	105	945				B(E2)↑	2.0 E-2	5		CE		IZV. SSSR.	32	1676	1968	
46	PD	105	962				B(E2)↑	5.0 E-3	20		CE		IZV. SSSR.	32	1676	1968	
47	AG	105	26	7/2+	7.23E- 0	16 M					E3	DEC	PHYS.REV.	187	1704	1969	
43	TC	106	94		2.7 E- 9	3 S					E2	TM	INT.CONF.MONTREAL		83	1969	
46	PD	106	512	2+			B(E2)↑	7.1 E-1	4		CE		NUCL.PHYS.	A124	553	1969	
46	PD	106	512	2+			B(E2)↑	6.1 E-1	6	E2	CE		INT.CONF.MONTREAL		99	1969	
46	PD	106	1127	2+			B(E2)↑	1.78E-2	14		CE		NUCL.PHYS.	A124	553	1969	
46	PD	106	1133	0+			B(E2)↑	1.8 E-2	4		CE		NUCL.PHYS.	A124	553	1969	
46	PD	106	1228	4+			B(E2)↑	3.9 E-1	5		CE		NUCL.PHYS.	A124	553	1969	
46	PD	106	2951		2.0 E- 7	S					TM	AMBIG	NUCL.PHYS.	A129	687	1969	
46	PD	106	2951		<2.0 E- 9	S					TM	AMBIG	NUCL.PHYS.	A122	577	1968	
48	CD	106	633	2+			B(E2)↑	4.26E-1	17		CE		NUCL.PHYS.	A129	687	1969	
48	CD	106	1718	2+			B(E2)↑	3.60E-2	50		CE		NUCL.PHYS.	A129	687	1969	
46	PD	107	116		8.5 E- 7	10 S					TM		PHYS.REV.	183	991	1969	
48	CD	108	633	2+			B(E2)↑	4.42E-1	18		CE		NUCL.PHYS.	A129	687	1969	
48	CD	108	1603	2+			B(E2)↑	2.80E-2	40		CE		NUCL.PHYS.	A129	687	1969	
47	AG	109	855		1.1 E-11	S					RS		NUCL.PHYS.	A137	520	1969	
48	CD	109	203	7/2+	3.6 E-11	5 S					TM		NUCL.PHYS.	A135	153	1969	
48	CD	110	658	2+			B(E2)↑	4.67E-1	19		CE		NUCL.PHYS.	A129	687	1969	
48	CD	110	1476	2+			B(E2)↑	2.10E-2	30		CE		NUCL.PHYS.	A129	687	1969	
48	CD	111	246		8.5 E- 8	7 S				E2	TM,CE		NUCL.PHYS.	A109	529	1968	
48	CD	111	247				B(E2)↑	1.6 E-2	4		CE		SOV.NUCLPH.	9	133	1969	
48	CD	111	342				B(E2)↑	8.7 E-2	10	M1+E2	CE		NUCL.PHYS.	A109	529	1968	
48	CD	111	344				B(E2)↑	1.1 E-1	2		CE		SOV.NUCLPH.	9	133	1969	
48	CD	111	621				B(E2)↑	1.26E-1	17	E2	CE		NUCL.PHYS.	A109	529	1968	
48	CD	111	622				B(E2)↑	1.4 E-1	3		CE		SOV.NUCLPH.	9	133	1969	
48	CD	111	700				B(E2)↑	3.0 E-3	10		CE		SOV.NUCLPH.	9	133	1969	
48	CD	111	755				B(E2)↑	4.2 E-2	8	M1+E2	CE		NUCL.PHYS.	A109	529	1968	
48	CD	111	755				B(E2)↑	2.2 E-2	7		CE		SOV.NUCLPH.	9	133	1969	
48	CD	111	855				B(E2)↑	7.0 E-4	30		CE		SOV.NUCLPH.	9	133	1969	
48	CD	111	1020				B(E2)↑	2.4 E-2	11		CE		SOV.NUCLPH.	9	133	1969	
48	CD	112	617	2+			B(E2)↑	5.24E-1	21		CE		NUCL.PHYS.	A129	687	1969	
48	CD	112	1313	2+			B(E2)↑	1.05E-2	15		CE		NUCL.PHYS.	A129	687	1969	
48	CD	112	1469	2+			B(E2)↑	5.50E-3	100		CE		NUCL.PHYS.	A129	687	1969	
48	CD	114	558	2+			B(E2)↑	5.76E-1	23		CE		NUCL.PHYS.	A129	687	1969	

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
48	CD	114	1208	2+			B(E2)↑	9.50E-3	150		CE		NUCL.PHYS.	A129	687	1969	
48	CD	114	1212	2+			B(E2)↑	1.90E-2	30		CE		NUCL.PHYS.	A129	687	1969	
48	CD	114	1363	2+			B(E2)↑	7.00E-3	120		CE		NUCL.PHYS.	A129	687	1969	
49	IN	115	935		5.6 E-13						S		NUCL.PHYS.	A137	520	1969	
50	SN	115	499		1.55E-4	10					S		NUCL.PHYS.	59	33	1964	
48	CD	116	513	2+			B(E2)↑	5.81E-1	23		CE	AMBIG	NUCL.PHYS.	A129	687	1969	
50	SN	116	3300		7.5 E-7	11				E2	TM		NUCL.PHYS.	A134	110	1969	
49	IN	117	587		1.7 E-10	3					TM		PHYS.REV.	168	1409	1968	
49	IN	117	588	3/2-	2.0 E-10	5				M1,E2	TM		SOV.NUCLPH.	8	142	1969	
49	IN	117	658	3/2+	5.5 E-8	2				E1,M2	TM		SOV.NUCLPH.	8	142	1969	
49	IN	117	659		5.97E-8	20					TM		PHYS.REV.	168	1409	1968	
49	IN	117	747	3/2+	4.82E-9	10				M1,E2	TM		SOV.NUCLPH.	8	142	1969	
49	IN	117	748		4.6 E-9	3					TM		PHYS.REV.	168	1409	1968	
49	IN	117	1890	3/2+	4.2 E-10	6				E1,M2	TM		SOV.NUCLPH.	8	142	1969	
50	SN	117	161		1.1 E-10	3				M1+E2	RS		NUCL.PHYS.	29	21	1962	
49	IN	118	138*		8.5					E3	DEC		NUCL.PHYS.	A125	477	1969	
51	SB	121	510				B(E2)↑	1.3 E-2	4		CE		SOV.NUCLPH	9	133	1969	
51	SB	121	573				B(E2)↑	2.0 E-2	4		CE		SOV.NUCLPH	9	133	1969	
51	SB	121	1037				B(E2)↑	4.0 E-3	10		CE		SOV.NUCLPH	9	133	1969	
51	SB	121	1141				B(E2)↑	1.6 E-2	3		CE		SOV.NUCLPH	9	133	1969	
51	SB	121	1147				B(E2)↑	3.0 E-2	10		CE		SOV.NUCLPH	9	133	1969	
52	TE	121	212	3/2+			B(E2)↑	1.82E-1			CE		INT.CONF.MONTREAL		143	1969	
51	SB	123	160		5.62E-10	69					TM		PHYS.REV.	182	1165	1969	
51	SB	123	160		6.0 E-10	10					TM		CONF.BOMBAY		298	1968	
51	SB	123	160				B(E2)↑	2.3 E-3	8		CE		SOV.NUCLPH	9	133	1969	
51	SB	123	542				B(E2)↑	2.8 E-2	6		CE		SOV.NUCLPH	9	133	1969	
51	SB	123	1032				B(E2)↑	9.0 E-2	20		CE		SOV.NUCLPH	9	133	1969	
51	SB	123	1089				B(E2)↑	4.2 E-2	9		CE		SOV.NUCLPH	9	133	1969	
52	TE	123	159		1.99E-10	10				M1+E2	TM		PHYS.REV.	165	1296	1968	
52	TE	123	159	3/2+			B(E2)↑	3.8 E-2			CE		INT.CONF.MONTREAL		143	1969	
52	TE	123	159				B(E2)↑	1.5 E-2	6		CE		SOV.NUCLPH.	9	133	1969	
52	TE	123	439	3/2+			B(E2)↑	2.7 E-1			CE		INT.CONF.MONTREAL		143	1969	
52	TE	123	440				B(E2)↑	1.5 E-1	5		CE		SOV.NUCLPH.	9	133	1969	
52	TE	123	503				B(E2)↑	1.7 E-1	7		CE		SOV.NUCLPH.	9	133	1969	
54	XE	123	<250	9/2-	6.3 E-6	5					M2	TM A,G	AFI ANNUAL REPORT		44	1969	
55	CS	123	158*		1.60	15					M1/E2	DEC	JINR-P6-4592				
52	TE	124	603								E2	RS	NUCL.PHYS.	1	527	1965	
52	TE	124	603		6.6 E-12	4					RS		PHYS.REV.	171	1279	1968	
52	TE	125	35		1.48E-9	1					TM		NUCL.PHYS.	A109	364	1968	
52	TE	125	35		1.54E-9	8					TM		PHYSICA	33	695	1967	

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
52	TE	125	36	3/2+			B(E2)↑	3.3 E-2			CE		INT.CONF.MONTREAL		143	1969	
52	TE	125	321		8.7 E-10	8 S				28%E2	TM		J.PHYJAPAN	21	2425	1965	
52	TE	125	321	9/2-	6.95E-10	15 S					TM		NUCL.PHYS.	A113	561	1968	
52	TE	125	321		7.6 E-10	20 S					TM		INT.CONF.EREVAN		76	1969	
52	TE	125	444				B(E2)↑	3.2 E-1			CE		BULL.USSR	32	225	1968	
52	TE	125	444	3/2+			B(E2)↑	2.1 E-1			CE		INT.CONF.MONTREAL		143	1969	
52	TE	125	462		4.69E-10	34 S					TM	AMBIG	PHYSICA	33	695	1967	
52	TE	125	463				B(E2)↑	2.1 E-1			CE		BULL.USSR	32	225	1968	
52	TE	125	463		1.9 E-11	3 S					TM		INT.CONF.EREVAN		76	1969	
52	TE	125	464	5/2+			B(E2)↑	1.59E-1			CE		INT.CONF.MONTREAL		143	1969	
52	TE	125	636	5/2+			B(E2)↑	1.5 E-1			CE		INT.CONF.MONTREAL		143	1969	
52	TE	125	672				B(E2)↑	1.6 E-1			CE		BULL.USSR	32	225	1968	
53	I	125	113		6.1 E-10	2 S					TM		NUCL.PHYS.	A107	476	1968	
53	I	125	188		3.25E-10	10 S					TM		NUCL.PHYS.	A107	476	1968	
53	I	125	243		2.3 E-10	1 S					TM		NUCL.PHYS.	A107	476	1968	
52	TE	127	341		3.0 E-10	8 S					TM		J.PHYJAPAN	25	1186	1968	
53	I	127	58		1.86E-9	11 S				0.7%E2	TM		NUCL.PHYS.	68	352	1965	
53	I	127	58				B(E2)↑	5.4 E-2			CE		NUCL.PHYS.	A101	654	1967	
53	I	127	58				B(E2)↑	9.3 E-2			CE		INT.CONF.MONTREAL		58	1969	
53	I	127	203				B(E2)↑	7.2 E-2			CE		NUCL.PHYS.	A101	654	1967	
53	I	127	203		4.0 E-10	1 S					TM		NUCL.PHYS.	A107	476	1968	
53	I	127	203				B(E2)↑	3.5 E-2	5		CE		NUCL.PHYS.	A124	655	1969	
53	I	127	203	3/2			B(E2)↑	3.3 E-2	5		DE		PHYS.LETT.	29B	487	1969	
53	I	127	375		<1.35E-10	S					TM		NUCL.PHYS.	A107	476	1968	
53	I	127	375				B(E2)↑	1.5 E-2			CE		NUCL.PHYS.	A124	655	1969	
53	I	127	375		1.52E-11	28 S					RS		NUCL.PHYS.	A127	379	1969	
53	I	127	375	7/2			B(E2)↑	2.9 E-2	4		DE		PHYS.LETT.	29B	487	1969	
53	I	127	418				B(E2)↑	6.1 E-3			CE		NUCL.PHYS.	A124	655	1969	
53	I	127	418	5/2			B(E2)↑	7.2 E-3	11		DE		PHYS.LETT.	29B	487	1969	
53	I	127	629				B(E2)↑	8.7 E-2	13		DE		PHYS.LETT.	29B	487	1969	
53	I	127	651	9/2			B(E2)↑	2.35E-2	35		DE		PHYS.LETT.	29B	487	1969	
53	I	127	745	9/2			B(E2)↑	1.35E-1	20		DE		PHYS.LETT.	29B	487	1969	
53	I	129	278	5/2+	1.04E-10	12 S					TM		INT.CONF.MONTREAL		107	1969	
53	I	129	487	5/2+	<5.0 E-11	S					TM		INT.CONF.MONTREAL		107	1969	
57	LA	129	172		5.6 E-1	5 S					E3	DEC	NUCL.PHYS.	A133	77	1969	
52	TE	130	840	2+			B(E2)↑	3.0 E-1	3		E2	CE	INT.CONF.MONTREAL		99	1969	
54	XE	131	364		<3.5 E-11	S					TM		CONF.BOMBAY		289	1968	
55	CS	131	79		9.15E-9	30 S					TM		NUCL.PHYS.	A130	545	1969	
55	CS	131	124		3.48E-9	7 S					TM		NUCL.PHYS.	A130	545	1969	
55	CS	131	133		1.35E-8	5 S					TM	AMBIG	JETP	18	1178	1964	

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
55	CS	131	134		9.75E- 9	30	S					TM	AMBIG	NUCL.PHYS.	A130	545	1969
55	CS	131	216		<1.92E-10		S					TM		NUCL.PHYS.	A130	545	1969
57	LA	132	189	6-	2.43E+ 1	5	M			M2/E3	DEC			COMPT.REND.	269	220	1969
55	CS	133	81					B(E2)↑	2.2 E-2			CE		NUCL.PHYS.	A101	654	1967
55	CS	133	160					B(E2)↑	1.3 E-1			CE		NUCL.PHYS.	A101	654	1967
57	LA	133	131	3/2+	1.3 E- 9		S					TM		INT.CONF.MONTREAL		85	1969
57	LA	133	131	3/2+	8.0 E-10	30	S					TM		COMPT.REND.	265	1131	1967
57	LA	133	535	3/2-	7.0 E- 8		S			E1	TM			INT.CONF.MONTREAL		85	1969
57	LA	133	535	3/2-	7.0 E- 8	30	S				TM			COMPT.REND.	265	1131	1967
55	CS	134	11		6.9 E- 8	1	S					TM		PHYS.REV.	186	1250	1969
55	CS	134	11		4.8 E- 8	1	S					TM G,E		BULL.AM.	14	629	1969
55	CS	134	63		<5.0 E- 9		S					TM		NUCL.PHYS.	A138	392	1969
55	CS	134	116*		1.5 E- 8	3	S					TM		NUCL.PHYS.	A138	392	1969
55	CS	134	118*		5.5 E- 8	5	S					TM		NUCL.PHYS.	A138	392	1969
55	CS	134	176*		3.8 E- 8	5	S					TM		NUCL.PHYS.	A138	392	1969
58	CE	135	445	11/2-	2.0 E+ 1		S			E3	DEC			JINR-P6-4499			1969
57	LA	137	1004		<4.1 E-10	7	S				TM			PHYS.REV.	161	1254	1967
60	ND	137	***		1.6	15	S				DEC			JINR P6-4597			1969
56	BA	140	357					B(E2)↑	1.36			CF		NUCL.PHYS.	A94	177	1967
62	SM	143	2793		3.0 E- 2	3	S					NR		NUCL.PHYS.	A131	225	1969
60	ND	144	2074					$\Gamma / \Gamma_c \sim 3.0 E-1$				RS		INT.CONF.MONTREAL		105	1969
60	ND	144	2074	2				$\Gamma / \Gamma_c \sim 1.2 E-3$		3		RS		PHYS.REV.	187	1700	1969
60	ND	144	2186					$\Gamma / \Gamma_c \sim 7.0 E-1$				RS		INT.CONF.MONTREAL		105	1969
60	ND	144	2186	1-				$\Gamma / \Gamma_c \sim 3.1 E-2$		4		RS		PHYS.REV.	187	1700	1969
60	ND	144	2526					$\Gamma / \Gamma_c \sim 5.0 E-1$				RS		INT.CONF.MONTREAL		105	1969
60	ND	144	2655					$\Gamma / \Gamma_c \sim 8.0 E-1$				RS		INT.CONF.MONTREAL		105	1969
60	ND	144	2905					$\Gamma / \Gamma_c \sim 1.0 E-1$				RS		INT.CONF.MONTREAL		105	1969
64	GD	145	721	11/2-	8.5 E+ 1	7	S			M4	DEC			NUCL.PHYS.	A128	247	1969
61	PM	147	531		1.33E-10	21	S					TM		CONF.BOMBAY		298	1968
62	SM	147	120					B(E2)↑	3.6 E-2	2		CE		PHYS.REV.	131	1224	1963
62	SM	147	122		1.15E- 9	6	S					TM	AMBIG	NUCL.PHYS.	A122	184	1968
62	SM	147	197	3/2-	1.10E- 9	5	S					TM	AMBIG	PAN-IBJ-1061-IA-PL			1969
62	SM	147	198		1.95E- 9	15	S					TM	AMBIG	NUCL.PHYS.	A122	184	1968
62	SM	147	199					B(E2)↑	1.6 E-2			CE		PHYS.REV.	131	1224	1963
62	SM	149	23	5/2-	7.12E- 9	11	S					TM		PAN-IBJ-1061-IA-PL			1969
62	SM	149	277					B(E2)↑	4.7 E-3			CE		BULL.USSR.	31	1726	1967
62	SM	149	277		<2.0 E-10		S					TM		PAN-IBJ-1061-IA-PL			1969
62	SM	149	286					B(E2)↑	9.9 E-3			CE		BULL.USSR.	31	1726	1967
62	SM	149	350					B(E2)↑	2.9 E-2			CE		BULL.USSR.	31	1726	1967
62	SM	149	350		<2.0 E-10		S					TM		PAN-IBJ-1061-IA-PL			1969

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
62	SM	149	528					B(E2)↑	2.0 E-2			CE		BULL.USSR.	31	1726	1967
62	SM	149	558					B(E2)↑	<2.0 E-2			CE		BULL.USSR.	31	1726	1967
62	SM	149	585					B(E2)↑	1.1 E-1			CE		BULL.USSR.	31	1726	1967
62	SM	149	660					B(E2)↑	1.9 E-1			CE		BULL.USSR.	31	1726	1967
61	PM	151	117		8.9 E-11	15	S					TM		ARK.FYS.	35	237	1967
62	SM	151	259*		8.0 E-6		S					TM		ZFK-172 ROSSENDORF			1969
63	EU	151	22	7/2+	1.02E-8	5	S					TM		PAN-IBJ-1061-IA-PL			1969
63	EU	151	197		5.88E-5	4	S					TM		LYCEN-6924			1969
63	EU	151	243	7/2-	5.0 E-10	3	S					TM		PAN-IBJ-1061-IA-PL			1969
63	EU	151	350	9/2-	<2.0 E-10		S					TM		PAN-IBJ-1061-IA-PL			1969
64	EU	151	22		9.4 E-9	4	S					TM		NUCL.PHYS.	A138	470	1969
64	GD	151	108	5/2-	2.64E-9	15	S					TM		INT.CONF.MONTREAL		107	1969
64	GD	151	108		2.60E-9	13	S					TM	G,E	JINR 6-4406 DUBNA			1969
64	EU	151	244		3.6 E-10	2	S					TM		NUCL.PHYS.	A138	470	1969
64	EU	151	350		<1.0 E-10		S					TM		NUCL.PHYS.	A138	470	1969
64	GD	151	395		2.4 E-10	4	S					TM	G,E	JINR 6-4406 DUBNA			1969
64	GD	151	575		2.3 E-10	4	S					TM	G,E	JINR 6-4406 DUBNA			1969
64	GD	151	839		3.2 E-9	5	S					TM	G,E	JINR 6-4406 DUBNA			1969
62	SM	152	122		1.44E-9	3	S				E2	DOS		INT.CONF.MONTREAL		7	1969
62	SM	152	245		5.53E-11	17	S				E2	DOS		INT.CONF.MONTREAL		7	1969
62	SM	152	340		9.85E-12	50	S				E2	DOS		INT.CONF.MONTREAL		7	1969
62	SM	152	419		2.9 E-12	3	S				E2	DOS		INT.CONF.MONTREAL		7	1969
63	EU	152	108		<1.0 E-8							TM		PHYS.REV.	137	763	1965
62	SM	153	35		<6.9 E-11		S					TM		NABIELEK THESIS		64	1968
62	SM	153	91		3.6 E-10	11	S				M1	TM		NABIELEK THESIS		64	1968
62	SM	153	170*		1.19E-8	46	S				E1	TM		NABIELEK THESIS		64	1968
63	EU	153	97		1.8 E-10	2	S					TM		ARK.FYS.	35	237	1967
64	GD	153	42		4.10E-9	10	S					TM		NUCL.PHYS.	A137	474	1969
64	GD	153	83		8.6 E-5		S					TM		REV.ROUM.P.	13	911	1968
64	GD	153	***		8.7 E-5		S					TM		ZFK-172 ROSSENDORF			1969
64	GD	153	129		2.50E-9	15	S					TM		NUCL.PHYS.	A137	474	1969
65	TB	153	83		1.74E-4		S					TM		REV.ROUM.P.	13	911	1968
63	EU	155	105		1.04E-10	10	S					TM		ARK.FYS.	35	237	1967
64	GD	155	118		3.1 E-2		S					TM		ZFK-172 ROSSENDORF			1969
64	GD	155	450	3/2-				B(E2)↑	7.5 E-3	45		CE		NUCL.PHYS.	A134	599	1969
64	GD	155	487	5/2-				B(E2)↑	2.5 E-3	20		CE		NUCL.PHYS.	A134	599	1969
64	GD	155	614	3/2-				B(E2)↑	1.1 E-2	5		CE		NUCL.PHYS.	A134	599	1969
64	GD	155	647	5/2-				B(E2)↑	4.5 E-3	25		CE		NUCL.PHYS.	A134	599	1969
64	GD	155	1028	7/2-				B(E2)↑	1.1 E-2	10		E2	CE	NUCL.PHYS.	A134	599	1969
65	TB	155	227	5/2-	4.4 E-10	3	S					E1	TM	NUCL.PHYS.	A103	481	1967

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
66	DY	155	***		6.0 E- 6		S					TM		ZFK-172 ROSSENDORF			1969
63	EU	156	88	1-	1.20E- 8	3	S				E1	TM		PHYS.LETT.	27B	502	1968
63	EU	156	291	1+	<2.0 E-10		S				E1	TM		PHYS.LETT.	27B	502	1968
64	GD	156	288		1.18E-10	7	S				E2	TM		PHYS.REV.	165	1352	1968
64	GD	156	1415*		2.7 E- 6	1	S					TM		NUCL.PHYS.	A138	231	1969
64	GD	156	1511		1.90E-10	11	S				E2	TM		PHYS.REV.	165	1352	1968
68	ER	156	344	2+	3.32E-11	17	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	156	453	4+	5.42E-12	66	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	156	543	6+	1.14E-12	66	S				E2	RC		PR.LETTERS	22	546	1969
65	TB	157	326	5/2-	2.0 E-10	4	S				E1	TM		NUCL.PHYS.	A103	481	1967
66	DY	157	199		2.1 E- 2		S					TM		ZFK-172 ROSSENDORF			1969
64	GD	158	80		2.59E- 9	10	S				E2	TM		PHYS.REV.	166	1212	1968
64	GD	158	80		2.59E- 9	12	S				E2	TM	H,G	NUCL.PHYS.	A127	412	1969
64	GD	158	262		1.62E-10	13	S				E2	TM		PHYS.REV.	165	1352	1968
64	GD	158	262		2.0 E-10	7	S				E2	TM		PHYS.REV.	166	1212	1968
66	DY	158	99		1.76E- 9	10	S				E2	TM		PHYS.REV.	166	1212	1968
68	ER	158	193	2+	3.00E-10	15	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	158	336	4+	1.44E-11	72	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	158	444	6+	2.80E-12	47	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	158	524	8+	1.21E-12	47	S				E2	RC		PR.LETTERS	22	546	1969
64	GD	159	68		2.62E- 8	8	S				E1	TM		NUCL.PHYS.	A111	511	1968
65	TB	159	363	5/2-	1.5 E-10	1	S				E1	TM		NUCL.PHYS.	A103	481	1967
66	DY	159	356		1.21E- 4		S					TM		REV.ROUM.P.	13	911	1968
64	GD	160	75	2+	2.68E- 9	6	S				E2	TM	H,G	NUCL.PHYS.	A127	412	1969
68	ER	160	126	2+	9.19E-10	46	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	160	264	4+	3.45E-11	17	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	160	376	6+	5.39E-12	47	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	160	465	8+	2.16E-12	47	S				E2	RC		PR.LETTERS	22	546	1969
68	ER	160	532	10+	1.24E-12	47	S				E2	RC		PR.LETTERS	22	546	1969
65	TB	161	480	5/2-	<1.0 E-10		S				E1	TM		NUCL.PHYS.	A103	481	1967
66	DY	161	26		2.78E- 8	15	S					TM		ZEIT.PHYS.	225	336	1969
66	DY	161	44		7.75E-10	62	S					RC		NUCL.PHYS.	A101	51	1967
66	DY	161	132		1.45E-10	15	S					TM		NUCL.PHYS.	A135	401	1969
68	ER	161	189	9/2+	1.0 E- 7		S				E1	TM		PHYS.LETT.	28B	661	1969
68	ER	161	399		8.0 E- 6		S					TM		ZFK-172 ROSSENDORF			1969
66	DY	162	81		2.19E- 9	4	S					TM		PHYS.REV.	161	1185	1967
66	DY	162	81		1.94E- 9	21	S					RC		NUCL.PHYS.	A101	51	1967
66	DY	162	1148		2.1 E-10	4	S					TM		PHYS.REV.	166	1227	1968
66	DY	162	1490		1.94E- 9	19	S					TM		ZEIT.PHYS.	225	327	1969
66	DY	163	73		8.52E-10	97	S				5%E2	TM		NABIELEK THESIS		63	1968

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.	U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR
66	DY	163	167		<6.9 E-11		S				M1/E2	TM		NABIELEK THESIS		63	1968
66	DY	163	251		<3.5 E-11		S				E1	TM		NABIELEK THESIS		63	1968
66	DY	163	351	1/2-				B(E2)↑	1.25E-2	25	E2	CE		NUCL.PHYS.	A134	599	1969
66	DY	163	390	3/2-				B(E2)↑	9.0 E-3	20		CE		NUCL.PHYS.	A134	599	1969
66	DY	163	422	3/2-				B(E2)↑	6.5 E-3	15		CE		NUCL.PHYS.	A134	599	1969
66	DY	163	422		<6.9 E-11		S				M1	TM		NABIELEK THESIS		63	1968
66	DY	163	428	5/2-				B(E2)↑	2.5 E-3	10		CE		NUCL.PHYS.	A134	599	1969
66	DY	163	476	5/2-				B(E2)↑	5.0 E-3	30		CE		NUCL.PHYS.	A134	599	1969
66	DY	163	884*		1.30E-8	33	S				E1	TM		NABIELEK THESIS		63	1968
68	ER	163	69		8.80E-9	50	S					TM		ZEIT.PHYS.	225	336	1969
66	DY	164	73		2.38E-9	4	S					TM		PHYS.REV.	161	1185	1967
66	DY	164	73	2+	2.40E-9	8	S					TM	H,G	NUCL.PHYS.	A127	412	1969
68	ER	164	90		1.52E-9	6	S				E2	TM		PHYS.REV.	166	1227	1968
68	ER	164	91		1.43E-9	5	S					TM		NUCL.PHYS.	40	24	1963
66	DY	165	83		<3.5 E-11		S					TM		NABIELEK THESIS		63	1968
66	DY	165	159		1.84E-9	99	S				13%E2	TM		NABIELEK THESIS		63	1968
66	DY	165	181		1.07E-8	35	S				E2	TM		NABIELEK THESIS		63	1968
66	DY	165	184		1.07E-9	36	S				E1	TM		NABIELEK THESIS		63	1968
66	DY	165	262		<3.5 E-11		S				10%E2	TM		NABIELEK THESIS		63	1968
68	ER	165	243		3.21E-10	51	S				M1+E2	TM		SOV.NUCLPH.	8	241	1969
69	TM	165	149*		9.0 E-6	5	S				E1	TM		NUCL.PHYS.	A115	193	1968
67	HO	166	191		1.85E-9	15	S				E1	TM		PHYS.REV.	140	816	1965
68	ER	166	265		1.17E-9	7	S				E2	TM		PHYS.REV.	165	1352	1968
68	ER	167	79		7.0 E-11	21	S					RC		NUCL.PHYS.	A101	51	1967
68	ER	167	79		6.9 E-11	21	S				7%E2	TM		NABIELEK THESIS		63	1968
68	ER	167	79		>1.03E-10	6	S					MOS		PHYS.LETT.	30B	167	1969
68	ER	167	265		1.60E-	6	S				14%E2	TM		NABIELEK THESIS		63	1968
68	ER	167	265		1.47E-9	5	S					TM		ZFK-150		51	1968
68	ER	167	281*		8.5 E-9	28	S				E2	TM		NABIELEK THESIS		63	1968
68	ER	167	347		1.0 E-9	1	S					TM		NUCL.PHYS.	A118	97	1968
68	ER	167	347		1.00E-9	10	S				E1	TM		NABIELEK THESIS		63	1968
68	FR	167	413*		2.1 E-8	4	S				M1/E2	TM		NABIELEK THESIS		63	1968
68	ER	167	430		<1.4 E-10		S				12%E2	TM		NABIELEK THESIS		63	1968
68	ER	167	532	3/2+				B(E2)↑	3.77E-2	38	E2	CE		NUCL.PHYS.	A134	599	1969
68	ER	167	575	5/2+				B(E2)↑	1.55E-2	32		CE		NUCL.PHYS.	A134	599	1969
68	ER	167	642	7/2+				B(E2)↑	5.1 E-3	30		CE		NUCL.PHYS.	A134	599	1969
68	ER	167	711	11/2+				B(E2)↑	4.79E-2	80	E2	CE		NUCL.PHYS.	A134	599	1969
68	ER	167	795*					B(E2)↑	1.8 E-2	8		CE		NUCL.PHYS.	A134	599	1969
68	ER	167	813					B(E2)↑	2.5 E-2	8		CE		NUCL.PHYS.	A134	599	1969
70	YB	169	71		<2.8 E-11		S				6%E2	TM		NABIELEK THESIS		63	1968

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
70	YB	169	87		1.47E-9	8	S			15%E2	TM		NABIELEK THESIS		63	1968	
70	YB	169	99		3.3 E-10	10	S			E2	TM		NABIELEK THESIS		63	1968	
70	YB	169	191		1.06E-9	13	S			M1	TM		NABIELEK THESIS		63	1968	
70	YB	169	279		<6.9 E-11		S			M1/E2	TM		NABIELEK THESIS		63	1968	
68	ER	170	79		1.88E-9	30	S				TM		PHYS.REV.	161	1185	1967	
68	ER	170	79		1.90E-9	8	S			E2	TM	H,G	NUCL.PHYS.	A127	412	1969	
69	TM	170	184		4.12E-6	13	S			E1,M2	TM		NUCL.PHYS.	A102	241	1967	
71	LU	170	45		3.00E-9	6	S			E2	TM		NUCL.PHYS.	A115	635	1968	
68	ER	171	198		2.0 E-8		S				TM		ZFK-172 ROSSENDORF			1969	
70	YB	171	76		7.21E-10	10	S				RC		NUCL.PHYS.	A101	51	1968	
70	YB	171	76		1.04E-9	15	S				RM		NUCL.PHYS.	A101	51	1967	
71	LU	171	165		3.90E-9	2	S				TM		NUCL.PHYS.	A115	635	1968	
69	TM	172	407		1.07E-9	5	S			M1	TM		NUCL.PHYS.	A109	407	1968	
69	TM	172	535		1.22E-9	5	S			M1	TM		NUCL.PHYS.	A109	407	1968	
69	TM	172	610		<3.0 E-10		S			E1	TM		NUCL.PHYS.	A109	407	1968	
70	YB	172	79		1.58E-9	6	S			E2	TM		NUCL.PHYS.	A134	225	1969	
70	YB	172	79		1.6 E-9	4	S				TM		NUCL.PHYS.	A108	625	1968	
70	YB	172	1172		8.14E-9	22	S			M1	TM		NUCL.PHYS.	A134	225	1969	
70	YB	172	1172		7.8 E-9	4	S				TM		NUCL.PHYS.	A108	625	1968	
70	YB	172	1263		4.9 E-10	3	S			M1	TM		NUCL.PHYS.	A134	225	1969	
70	YB	172	1263		<6.0 E-10		S				TM		NUCL.PHYS.	A108	625	1968	
70	YB	172	1551	6-	3.6 E-6	1	S			E1	TM		NUCL.PHYS.	A138	231	1969	
71	LU	172	110		2.30E-9	12	S				TM		NUCL.PHYS.	A104	459	1967	
71	LU	172	110	2+	2.3 E-9	12	S				TM	G,G	PAN/IBJ 843/IA/PL			1967	
71	LU	172	192		<0.5 E-9		S				TM		NUCL.PHYS.	A104	459	1967	
71	LU	172	192	1+	<5.0 E-10		S				TM	G,G	PAN/IBJ 843/IA/PL			1967	
71	LU	173	124		7.41E-5	10	S				TM		LYCEN-6924			1969	
72	HF	174	1549		2.1 E-6	2	S				TM		RLO-1388-102			1968	
70	YB	175	1497		<1.0 E-10		S			E1	TM		NUCL.PHYS.	A130	333	1969	
71	LU	175	343		2.6 E-10	2	S			M1	TM		NUCL.PHYS.	A134	77	1969	
71	LU	175	354		1.49E-6	7	S				TM		NUCL.PHYS.	A133	213	1969	
71	LU	175	433		<1.0 E-10		S			M1	TM		NUCL.PHYS.	A134	77	1969	
72	HF	176	1227		4.75E-9	25	S				TM		ZEIT.PHYS.	225	327	1969	
73	TA	176	100		2.5 E-8	3	S			E1	TM		COMPT.REND	266	96	1968	
72	HF	179	217		1.50E-9	15	S			E1	TM		J.PHYSIQUE	24	131	1963	
72	HF	179	217		1.55E-9	15	S			E1	TM		PHYS.LETT.	12	239	1964	
74	W	180	1006		7.4 E-9	4	S				TM		NUCL.PHYS.	A104	497	1967	
75	RE	180	20		8.75E-8	27	S			E1	TM		NUCL.PHYS.	A114	602	1968	
73	TA	181	136		3.8 E-11	2	S				MOS		ZEIT.PHYS.	221	281	1969	
73	TA	181	615		1.72E-5	2	S				TM		LYCEN-6924			1969	

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
74	W	181	365		1.28E- 5	2	S					TM	LYCEN-6924				1969
75	RE	181	263	7/2+	1.56E- 7	10	S				E1	TM	PHYSICA	35	479	1967	
75	RE	181	1877		1.14E- 5	10	S				M2	TM	NUCL.PHYS.	A136	70	1969	
73	TA	182	***		2.83E- 1	3	S				M2	DEC	PR LETTERS	21	925	1968	
74	W	182	100					B(E2)↑	4.30	8		CE	PHYS.REV.	170	1072	1968	
74	W	182	1221	2+				B(E2)↑	1.24E-1	6		CE	BULL.AM.	14	1204	1969	
74	W	182	1257	2+				B(E2)↑	2.3 E-2	2		CE	BULL.AM.	14	1204	1969	
74	W	182	1374	3-	<6.0 E-11		S					TM	INT.CONF.MONTREAL		107	1969	
74	W	182	2231		1.4 E- 6	1	S					TM	NUCL.PHYS.	A138	231	1969	
75	RE	182	236		5.7 E- 7	4	S					TM	JINR E6-4311			1969	
75	RE	182	236		6.0 E- 7	3	S				E1	TM	NUCL.PHYS.	A135	170	1969	
75	RE	182	263		5.27E- 9	16	S					TM	JINR E6-4311			1969	
75	RE	182	263		5.1 E- 9	2	S				E1	TM	NUCL.PHYS.	A135	170	1969	
74	W	183	46					B(E2)↑	1.50	14		CE	PHYS.REV.	170	1072	1968	
74	W	183	47		2.1 E-10		S					RC	NUCL.PHYS.	A101	51	1967	
74	W	183	99		7.1 E-10	4	S					RC	NUCL.PHYS.	A101	51	1967	
74	W	183	99					B(E2)↑	2.31	11		CE	PHYS.REV.	170	1072	1968	
75	RE	183	***		9.04E- 4		S					TM	REV.ROUM.P.	13	911	1968	
74	W	184	***		8.0 E- 6	4	S					TM	COMPT.REND.	268	578	1969	
74	W	184	***		7.7 E- 6	1	S					TM	LYCEN-6924			1969	
74	W	184	111		1.21E- 9	9	S					RC	NUCL.PHYS.	A101	51	1967	
74	W	184	111					B(E2)↑	3.84	7		CE	PHYS.REV.	170	1072	1968	
74	W	184	904	2+				B(E2)↑	1.23E-1	6		CE	BULL.AM.	14	1204	1969	
74	W	184	1286		8.33E- 6	18	S					TM	ZEIT.PHYS.	227	83	1969	
74	W	184	1337					B(E2)↑	2.1 E-2	3		CE	BULL.AM.	14	1204	1969	
74	W	184	1385					B(E2)↑	2.0 E-2	2		CE	BULL.AM.	14	1204	1969	
74	W	184	1502		2.35E- 9	10	S					TM	ZEIT.PHYS.	227	83	1969	
76	OS	184	120	2+	1.18E- 9	5	S				E2	TM G,E	JINR 6-4350 DUBNA			1969	
74	W	185	244		1.93E- 8	5	S					TM	NUCL.PHYS.	A133	554	1969	
75	RE	185	125					B(E2)↑	1.37	7		CE	NUCL.PHYS.	A103	545	1967	
75	RE	185	283					B(E2)↑	5.2 E-1	7		CE	NUCL.PHYS.	A103	545	1967	
75	RE	185	716					B(E2)↑	1.1 E-1	2		CE	NUCL.PHYS.	A103	545	1967	
75	RE	185	966					B(E2)↑	8.2 E-2	13		CE	NUCL.PHYS.	A103	545	1967	
74	W	186	122		1.29E- 9	21	S					RC	NUCL.PHYS.	A101	51	1968	
74	W	186	123					B(E2)↑	3.50	6		CE	PHYS.REV.	170	1072	1968	
74	W	186	737					B(E2)↑	1.56E-1	8		CE	BULL.AM.	14	1204	1969	
74	W	186	1285					B(E2)↑	8.0 E-3	2		CE	BULL.AM.	14	1204	1969	
76	OS	186	137		8.5 E- 9	1	S					TM	CONF.BOMBAY		289	1968	
76	OS	186	137	2+	8.1 E-10	3	S					TM	ARK.FYS.	35	229	1967	
76	OS	186	137	2+	8.4 E-10	5	S				E2	TM G,E	JINR 6-4350 DUBNA			1969	

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Z	EL.	A	E (KEV)	I	PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR
74	W	187	512			1.60E-11	56 S					RS		PHYS.REV.	159	1033	1967
74	W	187	618			1.09E-11	9 S					RS		PHYS.REV.	159	1033	1967
74	W	187	686			5.95E-12	4 S					RS		PHYS.REV.	159	1033	1967
74	W	187	773			1.73E-13	14 S					RS		PHYS.REV.	159	1033	1967
74	W	187	864			1.86E-12	62 S					RS		PHYS.REV.	159	1033	1967
74	W	187	880			3.04E-13	90 S					RS		PHYS.REV.	159	1033	1967
75	RE	187	134					B(E2)↑	1.47	7		CE		NUCL.PHYS.	A103	545	1967
75	RE	187	303					B(E2)↑	5.2 E-1	7		CE		NUCL.PHYS.	A103	545	1967
75	RE	187	589					B(E2)↑	1.2 E-1	2		CE		NUCL.PHYS.	A103	545	1967
75	RE	187	618			5.2 E-10	3 S					TM		NUCL.PHYS.	A137	693	1969
75	RE	187	840					B(E2)↑	8.0 E-2	12		CE		NUCL.PHYS.	A103	545	1967
77	IR	187	***			1.15E-8	3 S					TM		PHYS.LETT.	28B	415	1969
77	IR	187	***			1.4 E-7	3 S					TM		PHYS.LETT.	28B	415	1969
75	RE	188	64			5.6 E-11	7 S					TM		ARK.FYS.	35	229	1967
76	OS	188	155	2+		6.8 E-10	3 S				E2	TM		ARK.FYS.	35	229	1967
76	OS	188	155	2+		7.1 E-10	3 S				E2	TM	G,E	JINR 6-4350 DUBNA			1969
77	IR	188	55			1.93E-9	10 S					TM		NUCL.PHYS.	A139	17	1969
77	IR	188	97			1.59E-9	12 S					TM		NUCL.PHYS.	A139	17	1969
77	IR	188	188			5.6 E-11	13 S					TM		NUCL.PHYS.	A139	17	1969
77	IR	188	195			5.1 E-11	10 S					TM		NUCL.PHYS.	A139	17	1969
77	IR	188	478			<1.5 E-10	S					TM		NUCL.PHYS.	A139	17	1969
76	OS	189	36	1/2-		5.00E-10	28 S					MOS		PHYS.LETT.	28B	548	1969
76	OS	189	70			1.63E-9	4 S					TM		PHYS.REV.	180	1158	1969
76	OS	189	70			1.7 E-9	1 S					TM		NUCL.PHYS.	A137	693	1969
76	OS	189	95			<2.8 E-10	S					TM		PHYS.REV.	180	1158	1969
76	OS	189	276			<2.8 E-10	S					TM		PHYS.REV.	180	1158	1969
77	IR	189	94			1.13E-8	3 S					TM		PHYS.LETT.	28B	415	1969
77	IR	189	372			1.36E-2	S					TM		REV.ROUM.P.	13	911	1968
78	PT	189	***			4.64E-7	25 S					TM		PHYS.LETT.	28B	415	1969
76	OS	190	187			4.72E-10	21 S					RC		NUCL.PHYS.	A101	51	1967
76	OS	190	187			6.8 E-10	3 S					RC		NUCL.PHYS.	A101	51	1967
76	OS	190	187					B(E2)↑	2.47	4		CE		BULL.AM.	14	123	1969
77	IR	191	82					B(E2)↑	8.3 E-2	9		CE		INT.CONF.MONTREAL		28	1969
77	IR	191	82					B(E2)↑	5.5 E-2	7		CE		NUCL.PHYS.	A135	678	1969
77	IR	191	82			4.17E-9	10 S					TM		PHYS.LETT.	28B	415	1969
77	IR	191	129					B(E2)↑	8.9 E-1	6		CE		INT.CONF.MONTREAL		28	1969
77	IR	191	129					B(E2)↑	8.17E-2	81		CE		NUCL.PHYS.	A135	678	1969
77	IR	191	129			8.9 E-11	2 S					MOS		ZEIT.PHYS.	221	281	1969
77	IR	191	179					B(E2)↑	1.1 E-1	1		CE		INT.CONF.MONTREAL		28	1969
77	IR	191	179					B(E2)↑	1.8 E-1	11		CE		NUCL.PHYS.	A135	678	1969

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Z	EL.	A	E(KEV)	I PI	HALF-LIFE	ER.	U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR
77	IR	191	343					B(E2)↑	5.0 E-1	14		CE		INT.CONF.MONTREAL		28	1969
77	IR	191	343					B(E2)↑	5.4 E-1	6		CE		NUCL.PHYS.	A135	678	1969
77	IR	191	539		1.44E-11	11	S					RS		PHYS.REV.	162	1153	1967
77	IR	191	624		>2.4 E-11		S					RS		PHYS.REV.	162	1153	1967
77	IR	191	684					B(E2)↑	9.4 E-2	10		CE		INT.CONF.MONTREAL		28	1969
76	OS	192	206					B(E2)↑	2.14	2		CE		BULL.AM.	14	123	1969
76	OS	193	***	9/2-	1.7 E+ 1	1	M					DEC		NUCL.PHYS.	A125	305	1969
77	IR	193	73					B(E2)↑	1.1 E-1	1		CE		INT.CONF.MONTREAL		28	1969
77	IR	193	73					B(E2)↑	1.11E-1	12		CE		NUCL.PHYS.	A135	678	1969
77	IR	193	73		6.3 E- 9	2	S					TM		NUCL.PHYS.	A137	511	1969
77	IR	193	139					B(E2)↑	7.1 E-1	5		CE		INT.CONF.MONTREAL		28	1969
77	IR	193	139					B(E2)↑	6.35E-1	57		CE		NUCL.PHYS.	A135	678	1969
77	IR	193	139		8.8 E-11	9	S					TM		NUCL.PHYS.	A115	405	1969
77	IR	193	139		6.65E-11	83	S					TM		NUCL.PHYS.	A137	511	1969
77	IR	193	139		8.0 E-11	2	S					MOS		ZEIT.PHYS.	221	281	1969
77	IR	193	180					B(E2)↑	8.5 E-2	10		CE		INT.CONF.MONTREAL		28	1969
77	IR	193	180					B(E2)↑	2.5 E-1	15		CE		NUCL.PHYS.	A135	678	1969
77	IR	193	180		<3.5 E-11		S					TM		NUCL.PHYS.	A115	405	1969
77	IR	193	180		6.58E-11	97	S					TM		NUCL.PHYS.	A137	511	1969
77	IR	193	358					B(E2)↑	4.9 E-1	4		CE		INT.CONF.MONTREAL		28	1969
77	IR	193	358					B(E2)↑	4.73E-1	52		CE		NUCL.PHYS.	A135	678	1969
77	IR	193	361		<9.0 E-11		S					TM		NUCL.PHYS.	A115	405	1969
77	IR	193	460		1.87E-11	48	S					TM		NUCL.PHYS.	A115	405	1969
77	IR	193	460		1.52E-11	55	S					TM		NUCL.PHYS.	A137	511	1969
77	IR	193	557		3.4 E-11	9	S					TM		NUCL.PHYS.	A137	511	1969
77	IR	193	558		<2.10E-10		S					TM		NUCL.PHYS.	A115	405	1969
77	IR	193	559		<7.6 E-11		S					TM		NUCL.PHYS.	A137	511	1969
77	IR	193	620					B(E2)↑	9.0 E-2	10		CE		INT.CONF.MONTREAL		28	1969
77	IR	193	712		<1.10E-10		S					TM		NUCL.PHYS.	A115	405	1969
78	PT	193	14		2.52E- 9	5	S					TM		ARK.FYS.	37	427	1968
78	PT	193	1.6		9.7 E- 9	6	S				M1	TM		PHYS.LETT.	26B	83	1967
80	HG	193	39		6.3 E-10	3	S					TM		NUCL.PHYS.	A138	429	1969
77	IR	194	197		3.0 E- 2	2	S					DEC		NUCL.PHYS.	A106	417	1968
78	PT	194	329	2+				B(E2)↑	1.65	4		CE		PHYS.REV.	188	1905	1969
78	PT	195	99		>5.0 E-10		S					MOS		PHYS.LETT.	21	699	1966
80	HG	195	37		<5.0 E-11		S					TM		NUCL.PHYS.	A138	429	1969
80	HG	195	53		7.2 E-10	3	S					TM		NUCL.PHYS.	A138	429	1969
78	PT	196	356	2+				B(E2)↑	1.50	5		CE		PHYS.REV.	188	1905	1969
78	PT	196	1271		3.4 E- 9	3	S				E1	TM		NUCL.PHYS.	A115	321	1968
78	PT	196	1374		1.9 E- 9	1	S				E2	TM		NUCL.PHYS.	A115	321	1968

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Z	EL.	A	E (KEV)	I PI	HALF-LIFE	FR.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR	
79	AU	197	77		1.89E-9	2	S					MOS		ZEIT.PHYS.	221	281	1969
79	AU	197	268					B(E2)↑	8.3 E-2	16		CE		INT.CONF.MONTREAL		62	1969
78	PT	198	408	2+				B(E2)↑	1.01	5		CE		PHYS.REV.	188	1905	1969
79	AU	198	55*		2.8 E-10	14	S				10% E2	TM		NABIELEK THESIS		63	1968
79	AU	198	***		1.28E-7	15	S					TM P,G		NUCL.PHYS.	A118	478	1968
79	AU	198	367*		1.28E-7	15	S				E1	TM		NABIELEK THESIS		63	1968
79	AU	198	406*		1.87E-10	28	S				M1	TM		NABIELEK THESIS		63	1968
79	AU	198	440*		<5.5 E-11		S				M1	TM		NABIELEK THESIS		63	1968
79	AU	199	77	1/2+	1.1 E-9	1	S					TM		NUCL.PHYS.	A103	337	1967
79	AU	199	317	5/2+	<5.5 E-11		S					TM		NUCL.PHYS.	A103	337	1967
79	AU	199	324		3.5 E-11	20	S					TM		NUCL.PHYS.	A103	337	1967
79	AU	199	494	7/2+	<3.5 E-11		S					TM		NUCL.PHYS.	A103	337	1967
79	AU	199	543	5/2+	<3.0 E-11		S					TM		NUCL.PHYS.	A103	337	1967
79	AU	199	549		4.4 E-4	3	S				M2	TM		NUCL.PHYS.	A115	14	1968
79	AU	199	734	7/2-	3.6 E-10	4	S				E2	TM		NUCL.PHYS.	A103	337	1967
79	AU	199	791		<5.0 E-11		S					TM		NUCL.PHYS.	A103	337	1967
79	AU	199	968		<1.0 E-10		S					TM		NUCL.PHYS.	A103	337	1967
80	HG	201	***		9.9 E-5		S					TM		REV.ROUM.P.	13	911	1968
84	PO	203	640		1.2	2	M				M4	DEC		JINR-P6-4553			1969
81	TL	206	305		<4.0 E-10		S					TM		PHYS.LETT.	28B	415	1969
83	BI	207	2101		1.82E-4	6	S					TM		PHYS.REV.	181	1642	1969
81	TL	208	40		6.4 E-12	8	S					TM		NUCL.PHYS.	61	601	1965
84	PO	208	1522	6+	4.0 E-9	5	S				E2	TM		NUCL.PHYS.	A117	481	1968
84	PO	208	1532	8+	3.8 E-7	9	S				E2	TM		NUCL.PHYS.	A117	481	1968
82	PB	209	778		<1.0 E-9		S					TM		PHYS.LETT.	25B	512	1967
82	PB	209	1422		1.36E-9	30	S					TM		PHYS.LETT.	25B	512	1967
83	BI	209	2493	3/2+	3.8 E-11	11	S					CE		INT.CONF.MONTREAL		56	1969
83	BI	209	2563	9/2+	1.4 E-14	14	S					DOS		INT.CONF.MONTREAL		56	1969
83	BI	209	2563	9/2+				$\frac{\Gamma_c}{\Gamma_c}$	3.0 E-2	5		RS		PHYS.REV.	187	1680	1969
83	BI	209	2581	7/2+				$\frac{\Gamma_c}{\Gamma_c}$	<7.0 E-3			RS		PHYS.REV.	187	1680	1969
83	BI	209	2584	7/2+	2.8 E-13	14	S					DOS		INT.CONF.MONTREAL		56	1969
83	BI	209	2598	11/2+				$\frac{\Gamma_c}{\Gamma_c}$	9.0 E-3	24		RS		PHYS.REV.	187	1680	1969
83	BI	209	2600	11/2+	6.9 E-14	69	S					DUS		INT.CONF.MONTREAL		56	1969
83	BI	209	2602	13/2+	2.4 E-13	14	S					DOS		INT.CONF.MONTREAL		56	1969
83	BI	209	2617	5/2+	1.04E-11	35	S					CE		INT.CONF.MONTREAL		56	1969
83	BI	209	2741	15/2+	1.18E-11	35	S					CE		INT.CONF.MONTREAL		56	1969
84	PO	209	***	17/2-	1.0 E-7		S					E2	NR	PHYS.REV.	175	1476	1968
85	AT	211	1270		1.3 E-8		S					TM A,G		AFI ANNUAL REPORT		55	1969
90	TH	229	29		<1.9 E-9		S					M1	TM	NUCL.PHYS.	A100	609	1967
90	TH	229	42		5.0 E-10	20	S					M1	TM	NUCL.PHYS.	A100	609	1967

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Z	EL.	A	E (KEV)	I	PI	HALF-LIFE	ER.U.	QUANTITY	VALUE	ER.	MULTIP.	METHOD	BASIS	REFERENCE	VOL.	PAGE	YEAR
90	TH	229	43			<1.9 E- 9	S					TM		NUCL.PHYS.	A100	609	1967
90	TH	229	99			5.0 E-10	20 S					TM		NUCL.PHYS.	A100	609	1967
90	TH	232	50	2+		<2.3 E-10	S					MOS		PHYS.LETT.	27B	563	1968
92	U	234	990	2-		7.6 E-10	4 S					TM		NUCL.PHYS.	A127	679	1969
92	U	234	1552	5+		2.20E- 9	25 S				E1	TM		NUCL.PHYS.	A122	214	1968
92	U	235	625					EB(E2)↑	1.33E-2	15		CE		NUCL.PHYS.	A115	129	1968
92	U	235	633					EB(E2)↑	1.74E-2	18		CE		NUCL.PHYS.	A115	129	1968
92	U	235	638					EB(E2)↑	1.36E-2	14		CE		NUCL.PHYS.	A115	129	1968
92	U	235	822					EB(E2)↑	1.29E-2	18		CE		NUCL.PHYS.	A115	129	1968
92	U	235	921					EB(E2)↑	2.98E-2	30		CE		NUCL.PHYS.	A115	129	1968
92	U	236	687	2-		4.4 E- 9	6 S				E1,M2	TM		NUCL.PHYS.	A135	36	1969
92	U	237	145			3.3 E- 9	3 S					TM		ANL-6600			1961
92	U	237	160	5/2+		3.1 E- 9	S					TM		NUCL.PHYS.	A119	27	1968
92	U	237	274	7/2-		1.55E- 7	6 S					TM		NUCL.PHYS.	A119	27	1968
95	AM	238	***			6.0 E- 5	S					TM		ZFK-172 ROSSENDORF			1969
93	NP	239	74	5/2-		1.38E- 9	3 S					TM		INT.J.APPL.RAD.	20	493	1969
93	NP	239	118	7/2-		<4.0 E-11	S					TM		INT.J.APPL.RAD.	20	493	1969
95	AM	240	3150			9.1 E- 4	S					TM		ZFK-172 ROSSENDORF			1969
95	AM	242	***			1.7 E- 3	S					TM		ZFK-172 ROSSENDORF			1969
95	AM	243	84			2.34E- 9	7 S					TM		NUCL.PHYS.	A127	33	1969

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