

High BM3W values in ENSDF

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NUCID	Level E	J	Half-life	Gamma E	BM3W	Δ BM3W
67ZN	979.84	5/2+	1.5 PS +6-3	374.9	2.4 E+09	16
104RU	893.10	2+	5.0 PS 5	535.1	1.26E+9	17
63ZN	2584.2	13/2+	3.54 PS 28	881.3	1.1E+07	8
70GE	2806.24	4+	0.6 PS 2	1098.5	7E+06	+14-7
70GE	4431.7	(8)+	0.4 PS 2	1134.6	2.4E+06	95-24
70GE	4203.7	8+	8 PS 2	906.6	2.2E+06	+43-22
70GE	2153.16	4+	0.8 PS 2	1113.6	1.3E+06	+53-13
65ZN	3227.3	17/2+	0.30 PS +12-1	1173.5	1E+06	+4-1
144SM	2883.008	(4+)	0.4 PS +8-2	1223	5E+05	+13-5
63ZN	2319	11/2-	0.35 PS 9	1255.6	4.0E+05	8
68GE	4054.02	7-	118 PS 21	471.8	4E+05	+12-4
68GE	3696.09	6+	0.48 PS 14	1428.2	4E+05	+9-4
70AS	888	7(-)	4.5 NS 3	321.1	2.3E+05	+35-23
63CU	4130.44	(13/2+)	2.3 PS +10-7	1624	2E+05	4
65ZN	864.21	7/2-	3 PS +5-2	749.1	2E+05	+4-2
69GE	933.142	5/2-	1.5 PS 7	846.4	2E+05	+8-2
96ZR	3119.86	5-	0.58 PS +68-2	1222.7	2E+05	+3-2
144SM	3647.07	(4+)	0.12 PS +9-4	1987	2E+05	+5-2
144SM	3019.316	4+	0.4 PS +5-1	1359.3	2E+05	+6-2
63ZN	1978.4	-	0.19 PS +7-5	1785.5	1.8E+05	19

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22NA	5100.9	4+	38 FS 12	2041	1.7E+05	+44-17
82KR	1820.47	4+	1.0 PS +10-5	1044	1.2E+05	+25-12
182W	1442.823	4+	0.32 PS 3	1342.7	1.1E+05	8
61NI	3435.55	13/2+	1.0 PS 4	1314	1.0E+05	+17-5
32S	6852	4+	65 FS 20	2570	8E+04	+16-8
96ZR	2857.372	4+	0.60 PS +46-1	1106.9	8E+04	+18-8
61NI	2409.7	9/2-	0.19 PS 4	1277.5	5E+04	+23-5
63CU	4498.5	17/2+	4.1 NS 1	342.3	5E+04	+10-5
63ZN	2249.2	-	0.12 PS 3	1599.5	4E+04	6
63ZN	2933.5	13/2-	215 FS 62	1497.2	3E+04	9
21NE	2866.6	9/2+	40 FS 3	2516	2E+04	+5-2
21NE	1745.911	7/2+	52 FS 3	1745.8	2E+04	+6-2
32S	6411	4+	24.3 FS 35	4180.4	2.0E+04	+34-20
70GE	3058.707	4+	1.4 PS 3	2019.2	2.00E+04	

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61NI	1015.13	7/2-	4.4 PS 6	1015.1	1.2E+04	+25-4
61NI	1987.99	9/2-	0.51 PS 18	1079.3	1E+04	+4-1
63ZN	1860.85	9/2-	0.43 PS +16-1	1210.7	1E+04	4
63ZN	1436.26	9/2-	0.69 PS 21	1243.3	1E+04	4
63CU	2207.85	9/2-	0.31 PS +10-5	1245.2	1E+04	7
70GE	3416.36	5-	13.7 PS 10	854.6	1.0E+04	+4-10
36AR	5171.14	5-	88 PS 3	992.8	9E+03	9
39K	3944.3	11/2-	9.0 PS 10	1130	6E+03	+12-6
63ZN	1978.4	-	0.19 PS +7-5	1328	5E+03	21
63CU	2092.58	7/2-	0.24 PS 8	2092.6	5E+03	+24-5
63ZN	1664.86	7/2-	0.24 PS +6-5	1664.8	4E+03	9
61NI	2409.7	9/2-	0.19 PS 4	2342	1E+03	+4-1
61NI	1987.99	9/2-	0.51 PS 18	1920.1	1E+03	+4-1
61NI	1807.7	9/2-	0.6 PS 5	1740.1	1E+03	+6-1
49SC	11560	3/2-	1.5 KEV 3	11559	17	+19-17

^{113}Cd : Problem case for M1 ($\text{RUL}=3$) and E2 ($\text{RUL}=300$)

Level: Energy=680.5 keV $J^\pi=3/2^+$

Half-life = 12 fs (3)

Gamma Energy, to J_f	Branching Ratio	Multipolarity	Mixing Ratio	BM1W	BE2W
96.9, to 5/2+	5.3(3)	M1,E2		??	??
364.31, to 5/2+	20.1(4)	M1+E2	-0.02(7)	5.0(13)	12 (+84-12)
381.95, to 3/2+	20.9(4)	M1+E2	+0.16(15)	4.4(12)	6.E+2(+12-6)
680.6, to 1/2+	100.0(23)	M1+E2	-1.8(1)	0.90(2)	5.0E+3(13)

$T_{1/2}$ deduced from the BE2(up)=0.070 (15), $\delta(\text{E2/M1})=+0.02(+2-6)$ (1972An28).

Other mixing ratios: -1.8(1) (1987BaYW), +0.16(5), -2.4(4) (1991KrZR).

1985Si01 (PR-C 31, 79): BE2(up)=0.0996 (75); $\delta(\text{E2/M1})=-0.022(16)$ – missing ref. and data in ENSDF for ^{113}Cd !