

Search parameters:
30 S <=T(level)<= 1E10 GY

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Level and Gamma Information

More detailed information can be obtained by clicking on each [NUCLEAR NAME](#)

Nucleus	E _{level} (keV)	Jπ	T _{1/2}
1NN	0.0	1/2+	613.9 s 6
1H	0.0	1/2+	STABLE
2H	0	1+	STABLE
3H	0.0	1/2+	12.32 y 2
3HE	0.0	1/2+	STABLE
4HE	0.0	0+	STABLE
6LI	0.0	1+	STABLE
7LI	0.0	3/2-	STABLE
7BE	0.0	3/2-	53.22 d 6
9BE	0.0	3/2-	STABLE
10BE	0.0	0+	1.51×10 ⁺⁶ y 4
10B	0.0	3+	STABLE
11B	0	3/2-	STABLE
13B	3534.6 31		> 0.2 ps
11C	0	3/2-	20.364 m 14
12C	0	0+	STABLE
13C	0.0	1/2-	STABLE
13C	19510	(5/2-)	≥ 500 keV
14C	0.0	0+	5700 y 30
12N	9035 12	(1-)	16 keV +20-16
13N	0.0	1/2-	9.965 m 4
13N	12558 23		> 400 keV
13N	12937 24		> 400 keV
14N	0.0	1+	STABLE
15N	0.0	1/2-	STABLE
16N	6840	GE 2	> 140 keV
14O	0.0	0+	70.606 s 18
15O	0.0	1/2-	122.24 s 16
16O	0.0	0+	STABLE
17O	0	5/2+	STABLE
17O	12928 20	(1/2+, 7/2-)	≥ 150 keV
17O	19.28E3 7		> 0.75 MeV
18O	0.0	0+	STABLE
19O	2371.5 10	9/2+	> 2.4 ps
19O	3067.4 16	(3/2)+	≥ 0.7 ps
19O	3153.5 17	5/2+	≥ 0.7 ps
24O	4.76E3 21	2+	0.05 MeV +21-5
24O	5.33E3 21	(1+)	0.03 MeV +12-3
17F	0.0	5/2+	64.49 s 16
18F	0.0	1+	109.77 m 5
19F	0.0	1/2+	STABLE
19F	6500.0 9	11/2+	> 2.4 eV
19NE	4635 4	13/2+	> 0.7 ps
20NE	0.0	0+	STABLE
20NE	≈8700	0+	> 800 keV
21NE	0.0	3/2+	STABLE
22NE	0.0	0+	STABLE
23NE	0.0	5/2+	37.25 s 10

Levels Results

24NE	0	0+	3.38 m 2
34NE	0	0+	> 60 ns
22NA	0.0	3+	2.6018 y 22
23NA	0.0	3/2+	STABLE
24NA	0.0	4+	14.956 h 3
25NA	0	5/2+	59.1 s 6
37NA	0		> 60 ns
24MG	0	0+	STABLE
25MG	0	5/2+	STABLE
26MG	0.0	0+	STABLE
27MG	0.0	1/2+	9.458 m 12
27MG	3884.6 4	(5/2+, 9/2+)	> 0.5 ps
28MG	0.0	0+	20.915 h 9
32MG	1058 2	0+	> 7 ns
25AL	4192 4	3/2+	> 0.5 keV
25AL	4516 5	(9/2)+	> 6.5 eV
25AL	6322 5	7/2	> 0.4 keV
26AL	0.0	5+	7.17×10 ⁺⁵ y 24
26AL	3977.91 9	0-	> 1.0 ps
27AL	0.0	5/2+	STABLE
28AL	0.0	3+	2.245 m 2
29AL	0	5/2+	6.56 m 6
40AL	0.0		> 260 ns
42AL	0		> 170 ns
43AL	0		> 170 ns
28SI	0.0	0+	STABLE
29SI	0	1/2+	STABLE
30SI	0	0+	STABLE
31SI	0.0	3/2+	157.24 m 20
32SI	0.0	0+	157 y 7
32SI	5785.7 16	(0,1,2)+	≥ 0.8 ps
43SI	0		> 60 ns
30P	0	1+	2.498 m 4
31P	0.0	1/2+	STABLE
32P	0	1+	14.268 d 5
33P	0.0	1/2+	25.35 d 11
34P	2228.6 4	2(-)	> 2 ps
34P	2320.6 4	3(-)	> 7 ps
34P	6237.2 5	7(+)	> 6.9 ps
34P	7920.1 10		> 0.35 ps
35P	0	1/2+	47.3 s 8
45P	0.0		> 200 ns
30S	3667.5 10		> 1 ps
32S	0	0+	STABLE
33S	0.0	3/2+	STABLE
34S	0.0	0+	STABLE
35S	0	3/2+	87.37 d 4
36S	0	0+	STABLE
36S	5391.4 9	2+	> 0.2 ps
37S	0	7/2-	5.05 m 2
38S	0	0+	170.3 m 7
38S	2825.3 11	4+	> 0.14 ps
34CL	146.36 3	3+	31.99 m 3
34CL	2721.1 2	2-	> 1.4 ps
34CL	5540.8 11	3-	> 0.7 ps
35CL	0	3/2+	STABLE
36CL	0.0	2+	3.013×10 ⁺⁵ y 15
37CL	0	3/2+	STABLE
37CL	4810.9 3	7/2	> 0.35 ps
37CL	6046.17 8	11/2+	> 1.4 ps

Levels Results

38CL	0	2-	37.230 m 14
39CL	0	3/2+	56.2 m 6
39CL	396.42 7	1/2+	> 1.4 ps
39CL	1301.21 15	(5/2+)	> 2.1 ps
39CL	1785.86 18	(7/2-)	> 1.4 ps
39CL	2423.7 3	(9/2+)	> 1.2 ps
39CL	2834.3 3	(11/2+)	> 1.2 ps
40CL	0	2-	1.35 m 3
41CL	0	(1/2+)	38.4 s 8
49CL	0.0		≥ 170 ns
34AR	3873 3	0+	> 187 fs
36AR	0.0	0+	STABLE
36AR	4329.1 7	(0,1,2)+	> 485 fs
37AR	0.0	3/2+	35.011 d 19
38AR	0.0	0+	STABLE
38AR	5974.8 2	(0+:3-)	> 1.7 ps
38AR	6249.9 3	2+	> 111 fs
38AR	6476.6 19	(0+:3-)	> 0.17 ps
38AR	7289.6 8	(3-,4+)	> 55 fs
38AR	7508.12 22	7-	≥ 42 fs
39AR	0	7/2-	268 y 8
39AR	2358.284 11	1/2+	> 0.42 ps
39AR	2829.934 17	1/2+	> 0.69 ps
40AR	0	0+	STABLE
40AR	4230 2	4(-)	> 2.8 ps
41AR	0	7/2-	109.61 m 4
42AR	0.0	0+	32.9 y 11
42AR	3096.1 5	4+	> 3.5 ps
43AR	0	5/2 (-)	5.37 m 6
44AR	0.0	0+	11.87 m 5
44AR	3439.4 11	(6+)	> 27.7 ps
53AR	0		> 620 ns
37K	2285.24 12	(5/2+,7/2+)	> 243 fs
38K	0	3+	7.651 m 19
38K	3703.7 4	(1+,2,3+)	> 0.76 ps
39K	0	3/2+	STABLE
40K	0	4-	1.248×10 ⁺⁹ y 3
41K	0.0	3/2+	STABLE
41K	2494.91 3	9/2+	> 3.1 ps
42K	0	2-	12.355 h 7
43K	0	3/2+	22.3 h 1
43K	1206.91 6	(5/2,7/2) +	> 4.8 ps
43K	2508.34 10	(11/2+)	> 5 ps
44K	0.0	2-	22.13 m 19
45K	0.0	3/2+	17.81 m 61
46K	0.0	(2-)	105 s 10
49K	1438.3 4	(7/2+)	> 0.35 ps
49K	2104.2 5	(7/2-)	> 0.35 ps
39CA	3882 2	(3/2-,5/2,7/2+)	> 1.7 ps
40CA	0.0	0+	STABLE
41CA	0.0	7/2-	9.94×10 ⁺⁴ y 15
42CA	0.0	0+	STABLE
42CA	3300.0 4	0+	> 0.9 ps
43CA	0	7/2-	STABLE
44CA	0.0	0+	STABLE
44CA	3913.80 8	5-	> 2 ps
45CA	0.0	7/2-	162.61 d 9
45CA	1554.37 8	(11/2-)	> 2.1 ps
45CA	2877.99 12	(15/2-)	> 2.1 ps
46CA	0.0	0+	STABLE

Levels Results

46CA	2423.1 8	0+	> 4.5 ps
47CA	0.0	7/2-	4.536 d 3
47CA	2013.53 10	3/2-	> 6 ps
47CA	2578.33 10	3/2+	> 12 ps
47CA	2599.53 11	1/2+	> 1 ps
49CA	0.0	3/2-	8.718 m 6
49CA	5443.9	1/2-	2.5 keV +36-25
49CA	5553	GE 5/2	≥ 0.38 keV
57CA	0		> 620 ns
42SC	616.28 6	7+	61.7 s 4
42SC	2269.14 4	2+	> 70 fs
42SC	2433.62 18	4+	> 0.14 ps
42SC	2910.3 7	4+	> 0.8 ps
42SC	2995.53 7	4+	> 0.14 ps
42SC	3224.01 20	(5+)	> 0.21 ps
42SC	3321.36 10	(1+,2,3+)	> 0.14 ps
42SC	3718.6 5	(5+)	> 70 fs
43SC	0.0	7/2-	3.891 h 12
43SC	2383.1 4	3/2(+)	> 0.31 ps
43SC	3142.05 12	13/2+	> 0.55 ps
44SC	0.0	2+	4.0420 h 25
44SC	271.241 10	6+	58.61 h 10
44SC	531.42 14	3(-)	> 3.8 ps
45SC	0.0	7/2-	STABLE
45SC	2106.3 3	15/2-	> 1.4 ps
46SC	0.0	4+	83.79 d 4
47SC	0.0	7/2-	3.3492 d 6
47SC	2148.2 5		> 2 ps
48SC	0.0	6+	43.71 h 9
49SC	0.0	7/2-	57.18 m 13
49SC	3991.0 9	1/2+	≥ 0.7 ns
50SC	0.0	5+	102.5 s 5
42TI	1854.2 12	0+	> 0.14 ps
42TI	2676.6 8	4+	> 1.4 ps
44TI	0.0	0+	59.1 y 3
44TI	1904.4 8	0+	> 0.5 ps
45TI	0.0	7/2-	184.8 m 5
45TI	1565.4 7	1/2+	> 2.8 ps
46TI	0.0	0+	STABLE
47TI	0.0	5/2-	STABLE
47TI	2364.9 2	1/2+	> 1.53 ps
47TI	2682.30 5	11/2(-)	> 2.10 ps
48TI	0.0	0+	STABLE
48TI	4564.8 3	8(+)	> 3.5 ps
48TI	4956.6 4	(4+,5,6-)	> 1.0 ps
48TI	6103.2 7	10(+),8	> 1.4 ps
48TI	7427.9 7	9,7	> 0.7 ps
49TI	0.0	7/2-	STABLE
50TI	0.0	0+	STABLE
50TI	4172.003 19	3+	> 0.83 ps
51TI	0.0	3/2-	5.76 m 1
52TI	0.0	0+	1.7 m 1
53TI	0.0	(3/2)-	32.7 s 9
62TI	0	0+	> 620 ns
63TI	0		> 360 ns
47V	0.0	3/2-	32.6 m 3
48V	0.0	4+	15.974 d 3
49V	0.0	7/2-	330 d 15
50V	0.0	6+	$2.65 \times 10^{+17}$ y +16-18
50V	1402.0 4	3+	> 0.8 ps

Levels Results

50V	1677.4 4	3+	> 0.32 ps
50V	1752.5 7	3+, 4+, 5+	> 1.3 ps
50V	1812.8 15	(2,3)+	> 2.9 ps
51V	0.0	7/2-	STABLE
51V	2546.4 6	1/2+	> 0.7 ps
51V	3385.587 23	13/2-	> 0.87 ps
52V	0.0	3+	3.743 m 5
53V	0.0	7/2-	1.543 m 14
53V	1266.0 9	(7/2, 9/2)-	> 1.1 ps
53V	1653 4	(9/2, 11/2)-	> 0.45 ps
53V	4085.2 6	(17/2, 19/2-)	> 0.7 ps
54V	0.0	3+	49.8 s 5
54V	2297.9 3	(7)	> 0.35 ps
65V	0		> 360 ns
66V	0		> 360 ns
67V	0		> 620 ns
48CR	0.0	0+	21.56 h 3
48CR	4876.0 4	(6-)	> 0.7 ps
49CR	0.0	5/2-	42.3 m 1
49CR	1703.2 4	1/2-	> 3.8 ps
49CR	1981.8 3	3/2+	> 1.39 ps
49CR	2978.7 5	(3/2+)	> 0.69 ps
49CR	3892.2 4	13/2+	> 6.9 ps
50CR	0.0	0+	> 1.3×10 ⁺¹⁸ y
51CR	0.0	7/2-	27.704 d 4
52CR	0.0	0+	STABLE
53CR	0.0	3/2-	STABLE
54CR	0.0	0+	STABLE
54CR	3785.71 12	(4)+	> 2.8 ps
54CR	3870.4 5		> 28 fs
54CR	3987.42 21		> 42 fs
55CR	0.0	3/2-	3.497 m 3
56CR	0.0	0+	5.94 m 10
56CR	2681.8 10	(4+)	≥ 0.7 ps
56CR	3251.84 17	6+	≥ 0.7 ps
56CR	4447.79 20	(7-)	≥ 0.7 ps
68CR	0.0	0+	> 360 ns
69CR	0		> 620 ns
70CR	0.0	0+	> 620 ns
50MN	225.28 9	5+	1.75 m 3
50MN	1917.11 12	5+	> 0.7 ps
50MN	8277.4 18	(15+)	> 2 ps
51MN	0.0	5/2-	46.2 m 1
51MN	1817.1 2	3/2(-)	> 0.7 ps
51MN	2275.9 2	1/2+	> 1.2 fs
51MN	2701.6 5	3/2-	> 0.5 ps
51MN	9471.3 9	25/2-, 27/2	> 0.69 ps
52MN	0.0	6+	5.591 d 3
52MN	377.749 5	2+	21.1 m 2
52MN	4679.5 5	9-	> 0.78 ps
53MN	0.0	7/2-	3.7×10 ⁺⁶ y 4
53MN	3007.13 18	(5/2)+	> 0.84 ps
54MN	0.0	3+	312.20 d 20
54MN	1460.6 6	(4+, 5+)	> 0.28 ps
54MN	2109.8 4	1+	> 416 fs
55MN	0.0	5/2-	STABLE
56MN	0.0	3+	2.5789 h 1
56MN	2579.90 16		> 0.7 ps
57MN	0.0	5/2-	85.4 s 18
57MN	1227.5 11	-	> 0.35 ps

Levels Results

58MN	71.77 5	4+	65.4 s 5
72MN	0		> 620 ns
52FE	0.0	0+	8.275 h 8
52FE	6958.0 4	12+	45.9 s 6
53FE	0.0	7/2-	8.51 m 2
53FE	3040.4 3	19/2-	2.54 m 2
54FE	0.0	0+	STABLE
54FE	2561.3 4	0+	≥ 1.4 ps
54FE	3294.8 4	4+	≥ 2.1 ps
54FE	4030.9 5	5+	≥ 0.7 ps
55FE	0.0	3/2-	2.744 y 9
55FE	3072.0 4	11/2-	> 0.7 ps
55FE	3456.9 5	13/2-	> 0.6 ps
55FE	5476.8 23		> 0.7 ps
56FE	0.0	0+	STABLE
57FE	0.0	1/2-	STABLE
57FE	2220.2	(7/2-)	> 0.3 ps
57FE	2455.55 15	9/2+	> 1.4 ps
58FE	0.0	0+	STABLE
58FE	2257.95 21	0+	> 2.5 ps
59FE	0.0	3/2-	44.490 d 9
59FE	3558.88 23	(15/2+)	> 0.4 ps
60FE	0.0	0+	$2.62 \times 10^{+6}$ y 4
60FE	3958.20 18	6(-)	> 0.4 ps
60FE	4296.49 18	7(-)	> 0.4 ps
61FE	0.0	(3/2-)	5.98 m 6
62FE	0.0	0+	68 s 2
72FE	0.0	0+	≥ 150 ns
75FE	0.0		> 620 ns
54CO	197.1 4	7+	1.48 m 2
55CO	0.0	7/2-	17.53 h 3
55CO	3942.09 11	1/2-, 3/2-	> 120 fs
56CO	0.0	4+	77.236 d 26
56CO	829.61 5	4+	> 1.7 ps
56CO	2282.63 12	7+	> 1.25 ps
57CO	0.0	7/2-	271.74 d 6
58CO	0.0	2+	70.86 d 6
58CO	24.95 6	5+	9.10 h 9
58CO	1044.26 10	(3+)	> 1.2 ps
59CO	0.0	7/2-	STABLE
59CO	2153.62 20		≥ 14 fs
59CO	2204.78 19	5/2(-)	≥ 0.69 ps
60CO	0.0	5+	1925.28 d 14
60CO	58.59 1	2+	10.467 m 6
61CO	0.0	7/2-	1.649 h 5
62CO	0.0	(2)+	1.54 m 10
62CO	22 5	(5)+	13.86 m 9
63CO	995.05 13	3/2-	> 10 ps
64CO	107 20		> 280 ms
66CO	642	(8-)	> 100 μs
56NI	0.0	0+	6.075 d 10
56NI	3923.6 13	4+	> 0.7 ps
57NI	0.0	3/2-	35.60 h 6
58NI	0.0	0+	STABLE
58NI	3269.1 8	(2)	> 57 fs
58NI	3273.7 7	(2)	> 50 fs
58NI	3450.9 5		> 11 fs
58NI	3943.6 12		> 24 fs
58NI	5359.3 16	(2)	> 29 fs
58NI	5452.2 4	1	> 13 fs

Levels Results

58NI	5528.0 4	(1)	> 7 fs
59NI	0.0	3/2-	$7.6 \times 10^{+4}$ y 5
60NI	0.0	0+	STABLE
60NI	2284.80 4	0+	> 1.5 ps
60NI	3871.050 22	2+	> 3.0 ps
60NI	4077.99 5	1+,2+	> 12 fs
61NI	0.0	3/2-	STABLE
61NI	2129.0 3	11/2-	> 2 ps
61NI	3426.34 20	13/2-	> 0.7 ps
61NI	4019.36 21	15/2+	> 1.4 ps
62NI	0.0	0+	STABLE
62NI	2890.63 20	0+	> 3.1 ps
62NI	4011.0 15		> 0.90 ps
63NI	0.0	1/2-	101.2 y 15
64NI	0.0	0+	STABLE
64NI	3748.99 6	2+	> 0.5 ps
65NI	0.0	5/2-	2.5175 h 5
66NI	0	0+	54.6 h 3
68NI	0.0	0+	29 s 2
58CU	1427.85 25	2+	> 0.66 ps
58CU	1549.5 3	(4+)	> 0.34 ps
58CU	1647.41 18	(3+)	> 0.90 ps
59CU	0.0	3/2-	81.5 s 5
59CU	914.2 4	5/2-	> 1.1 ps
60CU	0.0	2+	23.7 m 4
61CU	0.0	3/2-	3.339 h 8
61CU	1732.58 5	7/2-	> 1.4 ps
61CU	2627.12 9	11/2-	> 350 fs
61CU	2720.34 9	9/2+	> 2.8 ps
62CU	0.0	1+	9.67 m 3
62CU	426.18 6	3+	> 0.16 ps
62CU	548.31 5	1+	> 0.17 ps
63CU	0.0	3/2-	STABLE
63CU	2716.47 9	3/2-,5/2-	> 0.2 ps
63CU	2808.10 8	3/2-	> 0.18 ps
63CU	5413.0 3	(17/2+)	> 2 ps
64CU	0.0	1+	12.7006 h 20
65CU	0	3/2-	STABLE
65CU	2094.34 14	(7/2)-	> 1 ps
65CU	2278.5 9	(7/2)-	> 0.84 fs
66CU	0.0	1+	5.120 m 14
67CU	0	3/2-	61.83 h 12
68CU	0.0	1+	30.9 s 6
68CU	721.26 8	6-	3.75 m 5
69CU	0.0	3/2-	2.85 m 15
70CU	0.0	6-	44.5 s 2
70CU	101.1 3	3-	33 s 2
60ZN	0.0	0+	2.38 m 5
61ZN	0.0	3/2-	89.1 s 2
62ZN	0.0	0+	9.193 h 15
62ZN	5131.0 4	(6-)	> 0.7 ps
63ZN	0	3/2-	38.47 m 5
63ZN	637.07 6	3/2-	> 0.53 ps
63ZN	650.10 4	5/2-	> 0.28 ps
63ZN	1023.22 5	3/2-	> 3.5 ps
63ZN	1063.34 7	7/2-	> 0.29 ps
63ZN	1065.28 12	1/2-	> 0.22 ps
63ZN	1206.38 7	7/2-	> 0.42 ps
63ZN	1284.26 6	5/2-	> 0.40 ps
63ZN	1909.26 14	1/2,3/2-	> 0.28 ps

Levels Results

63ZN	2050.42 19	9/2-	> 0.31 ps
63ZN	2233.30 23	11/2-	> 1.4 ps
63ZN	2288.31 17	7/2-	> 0.21 ps
63ZN	2377.86 24	9/2+	> 1.39 ps
63ZN	2911.9 5	9/2	> 1.4 ps
64ZN	0.0	0+	STABLE
64ZN	3552.3 3	4+	> 1.0 ps
64ZN	3853.27 21	5+	> 2 ps
65ZN	0.0	5/2-	243.93 d 9
65ZN	2053.8 3	13/2+	> 1.4 ps
65ZN	2135.2 8	9/2+	> 1.4 ps
65ZN	3784.9 6	(17/2)+	≥ 0.28 ps
66ZN	0.0	0+	STABLE
66ZN	2372.353 4	0+	> 0.21 ps
66ZN	2765.56 7	4+	> 7 ps
66ZN	5207.3 5	(8+)	> 6 ps
67ZN	0.0	5/2-	STABLE
67ZN	393.531 7	3/2-	> 2.4 ps
67ZN	1807.89 14	9/2+	> 0.7 ps
68ZN	0.0	0+	STABLE
69ZN	0	1/2-	56.4 m 9
69ZN	438.636 18	9/2+	13.756 h 18
70ZN	0.0	0+	≥ 3.8×10 ¹⁸ y
71ZN	0.0	1/2-	2.42 m 10
71ZN	155.62 6	9/2+	4.140 h 15
71ZN	468.4 8	5/2-	≥ 20 ps
72ZN	0.0	0+	46.5 h 1
74ZN	0.0	0+	95.6 s 12
79ZN	110E1 15	1/2+	≥ 200 ms
85ZN	0		> 637 ns
63GA	0.0	3/2-	32.4 s 5
64GA	0.0	0+	2.627 m 12
65GA	0.0	3/2-	15.2 m 2
66GA	0.0	0+	9.49 h 3
67GA	0	3/2-	3.2617 d 5
67GA	1975.2 11		> 0.09 ps
67GA	2141.85 8	3/2-	≥ 0.25 ps
67GA	2374.2 3	3/2+, 7/2+	> 0.69 ps
67GA	2457.3 10	11/2-	> 1.04 ps
67GA	2653.4 9	11/2-	> 1.04 ps
67GA	3191.1 9	11/2+	> 1.04 ps
67GA	3525.3 4	9/2+, 13/2+	> 1.04 ps
67GA	3628.6 7	13/2+, 17/2+	> 0.48 ps
68GA	0.0	1+	67.71 m 8
69GA	0.0	3/2-	STABLE
69GA	1525.76 4	3/2-	≥ 0.55 ps
69GA	1924.25 4	7/2-	≥ 0.62 ps
69GA	1972.37 5	9/2(+)	≥ 2.8 ps
69GA	2219.29 19		≥ 0.21 ps
69GA	2353.30 24	5/2	≥ 0.17 ps
69GA	2428.68 21	5/2-, 7/2-	≥ 1.7 ps
69GA	2668.28 6	11/2	≥ 1.7 ps
69GA	2717.99 5	13/2(+)	≥ 1.4 ps
69GA	4528.10 14	(17/2, 19/2)	≥ 2.8 ps
70GA	0.0	1+	21.14 m 5
70GA	1203.83 20	2+	> 220 fs
70GA	1244.61 10	2	> 500 fs
71GA	0.0	3/2-	STABLE
71GA	1476.004 8	5/2-	> 0.6 ps
71GA	1699.21 8	1/2+	> 0.25 ps

Levels Results

72GA	0	3-	14.10 h 2
73GA	0.0	1/2-	4.86 h 3
74GA	0.0	(3-)	8.12 m 12
75GA	0.0	3/2-	126 s 2
76GA	0.0	2(-)	30.5 s 4
87GA	0		> 634 ns
60GE	0	0+	> 110 ns
64GE	0.0	0+	63.7 s 25
65GE	0.0	3/2-	30.9 s 5
66GE	0.0	0+	2.26 h 5
66GE	3736.80 12	5+	> 2 ps
66GE	6502.11 16	10+	> 1.4 ps
67GE	0	1/2-	18.9 m 3
68GE	0	0+	270.93 d 13
68GE	4999		> 0.35 ps
69GE	0	5/2-	39.05 h 10
69GE	1613.29 8	7/2-	> 0.69 ps
69GE	1920.28 7	9/2-	> 1.04 ps
70GE	0.0	0+	STABLE
70GE	4851.9 4	(8-)	> 3 ps
71GE	0.0	1/2-	11.43 d 3
71GE	708.196 7	3/2-	> 10.7 ps
71GE	1026.561 10	5/2-	> 1.2 ps
71GE	1212.511 8	5/2-	> 1.2 ps
72GE	0	0+	STABLE
72GE	2064.93 3	3+	≥ 2 ps
72GE	3667.26 23	6+	> 2.1 ps
72GE	3784.18 17	7-	≥ 2.8 ps
73GE	0.0	9/2+	STABLE
74GE	0.0	0+	STABLE
75GE	0.0	1/2-	82.78 m 4
75GE	139.69 3	7/2+	47.7 s 5
77GE	0.0	7/2+	11.211 h 3
77GE	159.71 6	1/2-	53.7 s 6
78GE	0.0	0+	88.0 m 10
79GE	185.95 4	(7/2+)	39.0 s 10
88GE	0.0	0+	> 300 ns
67AS	0	(5/2-)	42.5 s 12
68AS	0.0	3+	151.6 s 8
69AS	0.0	5/2-	15.2 m 2
70AS	0.0	4+	52.6 m 3
71AS	0.0	5/2-	65.30 h 7
71AS	1394.69 12	(9/2)-	> 1.4 ps
71AS	2469.92 12	(13/2-)	> 1.4 ps
71AS	2820.1 3	(13/2-)	> 1.4 ps
71AS	2920.91 15	(15/2-)	> 1.4 ps
71AS	5822.9 4	(23/2-)	> 1.4 ps
72AS	0	2-	26.0 h 1
73AS	0.0	3/2-	80.30 d 6
74AS	0.0	2-	17.77 d 2
75AS	0.0	3/2-	STABLE
76AS	0.0	2-	26.254 h 11
77AS	0.0	3/2-	38.79 h 5
78AS	0.0	2-	90.7 m 2
79AS	0.0	3/2-	9.01 m 15
81AS	0	3/2-	33.3 s 8
68SE	0	0+	35.5 s 7
70SE	0.0	0+	41.1 m 3
71SE	0.0	(5/2-)	4.74 m 5
72SE	0	0+	8.40 d 8

Levels Results

73SE	0.0	9/2+	7.15 h 9
73SE	25.71 4	3/2-	39.8 m 17
74SE	0.0	0+	STABLE
75SE	0.0	5/2+	119.78 d 5
76SE	0.0	0+	STABLE
77SE	0.0	1/2-	STABLE
77SE	1230.629 5	(5/2)-	> 0.21 ps
77SE	1364.273 4	(3/2-)	> 0.49 ps
77SE	1607.702 8	3/2+, 5/2+	> 0.42 ps
78SE	0.0	0+	STABLE
78SE	2949.19 16	4-	> 1.4 ps
78SE	4121.2 3	8+	> 0.7 ps
78SE	4214.1 4	(8-)	> 1.4 ps
78SE	4786.9 5	(10+)	> 1.4 ps
78SE	5783.8 7	(12+)	> 0.6 ps
79SE	0.0	7/2+	3.27×10 ⁵ y 28
79SE	95.77 3	1/2-	3.92 m 1
79SE	1312.0 3	(7/2-)	> 0.21 ps
80SE	0.0	0+	STABLE
81SE	0	1/2-	18.45 m 12
81SE	103.00 6	7/2+	57.28 m 2
82SE	2893.66 18	5-	> 131.7 ps
83SE	0.0	9/2+	22.3 m 2
83SE	228.92 7	1/2-	70.1 s 4
84SE	0.0	0+	3.26 m 10
85SE	0	(5/2)+	32.9 s 3
94SE	0.0	0+	> 150 ns
95SE	0		> 392 ns
72BR	0	1+	78.6 s 24
73BR	0.0	1/2-	3.4 m 2
74BR	0.0	(0-)	25.4 m 3
74BR	13.58 21	4 (+)	46 m 2
75BR	0.0	3/2-	96.7 m 13
76BR	0.0	1-	16.14 h 20
77BR	0.0	3/2-	57.04 h 12
77BR	105.86 8	9/2+	4.28 m 10
78BR	0.0	1+	6.45 m 4
79BR	0.0	3/2-	STABLE
80BR	0.0	1+	17.68 m 2
80BR	85.843 4	5-	4.4205 h 8
81BR	0.0	3/2-	STABLE
82BR	0	5-	35.282 h 7
82BR	45.9492 10	2-	6.13 m 5
83BR	0.0	3/2-	2.374 h 4
84BR	0	2-	31.76 m 8
84BR	3.2E+2 10	(6)-	6.0 m 2
85BR	0.0	3/2-	2.90 m 6
86BR	0	(1-)	55.1 s 4
87BR	0.0	(5/2-)	55.68 s 12
95BR	0.0		≥ 150 ns
96BR	0.0		≥ 150 ns
74KR	0.0	0+	11.50 m 11
75KR	0.0	5/2+	4.60 m 7
76KR	0.0	0+	14.79 h 5
77KR	0.0	5/2+	71.25 m 42
78KR	0.0	0+	STABLE
78KR	3791.7 5		> 0.7 ps
79KR	0.0	1/2-	35.04 h 10
79KR	129.77 5	7/2+	50 s 3
80KR	0.0	0+	STABLE

Levels Results

80KR	3635.3 4	(7+)	≥ 0.7 ps
80KR	4126.23 20	(8-)	≥ 1.7 ps
81KR	0.0	7/2+	$2.29 \times 10^{+5}$ y 11
81KR	2192.4 4	(15/2+)	> 2.1 ps
82KR	0.0	0+	STABLE
82KR	3595.14 9	(7-)	> 7 ps
83KR	0.0	9/2+	STABLE
83KR	41.5575 7	1/2-	1.83 h 2
84KR	0.0	0+	STABLE
85KR	0.0	9/2+	10.739 y 14
85KR	304.871 20	1/2-	4.480 h 8
86KR	0	0+	STABLE
87KR	0.0	5/2+	76.3 m 5
88KR	0.0	0+	2.825 h 19
89KR	0.0	3/2 (+)	3.15 m 4
90KR	0.0	0+	32.32 s 9
101KR	0		> 635 ns
76RB	0.0	1-	36.5 s 6
77RB	0.0	3/2-	3.78 m 4
78RB	0.0	0 (+)	17.66 m 3
78RB	111.19 22	4 (-)	5.74 m 3
79RB	0.0	5/2+	22.9 m 5
80RB	0.0	1+	33.4 s 7
81RB	0.0	3/2-	4.572 h 4
81RB	86.31 7	9/2+	30.5 m 3
81RB	2656.2 6	(17/2-)	> 1 ps
81RB	3496.8 10	(21/2-)	> 1 ps
82RB	0	1+	1.2575 m 2
82RB	69.0 15	5-	6.472 h 6
83RB	0.0	5/2-	86.2 d 1
83RB	42.0780 20	9/2+	> 0.3 ms
84RB	0	2-	32.82 d 7
84RB	463.59 8	6-	20.26 m 4
85RB	0.0	5/2-	STABLE
85RB	3054.56 15	(21/2-)	> 69 ps
85RB	5419.30 19	(27/2+)	> 7 ps
86RB	0.0	2-	18.642 d 18
86RB	556.05 18	6-	1.017 m 3
87RB	0.0	3/2-	$4.97 \times 10^{+10}$ y 3
88RB	0.0	2-	17.773 m 18
89RB	0	3/2-	15.32 m 10
90RB	0	0-	158 s 5
90RB	106.90 3	3-	258 s 4
91RB	0	3/2 (-)	58.2 s 3
78SR	0.0	0+	160 s 8
79SR	0.0	3/2 (-)	2.25 m 10
80SR	0.0	0+	106.3 m 15
80SR	3580.81 25	(7-)	> 21 ps
80SR	3602.64 24	(7-)	> 21 ps
81SR	0.0	1/2-	22.3 m 4
81SR	1470.5 5	(13/2+)	≥ 0.76 ps
81SR	1910.2 10	(15/2-)	≥ 1.2 ps
82SR	0	0+	25.35 d 3
83SR	0.0	7/2+	32.41 h 3
84SR	0.0	0+	STABLE
85SR	0.0	9/2+	64.849 d 7
85SR	238.79 5	1/2-	67.63 m 4
85SR	767.34 8	5/2+	> 7 ps
85SR	1355.15 9	5/2+	≥ 0.13 ps
85SR	1555.35 10	(5/2+, 7/2)	≥ 0.11 ps

Levels Results

85SR	3227.2 4	(21/2) -	> 2.8 ps
86SR	0.0	0+	STABLE
87SR	0.0	9/2+	STABLE
87SR	388.5287 23	1/2-	2.815 h 12
87SR	2169.43 2	1/2+	≥ 0.15 ps
88SR	0	0+	STABLE
88SR	3992.42 7	(0+)	> 0.48 ps
88SR	5498.7 11	(1,2+)	> 0.7 ps
88SR	5583.3 3		> 3.3 ps
88SR	5730.18 20	4+	> 0.2 ps
88SR	5831.5 5	(1,2+)	> 1 ps
88SR	6052.2 3	(2+)	> 1.1 ps
88SR	6101.4 3	(1,2+)	> 0.8 ps
89SR	0.0	5/2+	50.563 d 25
89SR	1032.00 4	1/2+	> 1 ps
89SR	3388.1 7	15/2-	> 7 ps
90SR	0.0	0+	28.91 y 3
91SR	0	5/2+	9.65 h 6
92SR	0.0	0+	2.611 h 17
93SR	0	5/2+	7.43 m 3
94SR	0.0	0+	75.3 s 2
107SR	0		> 395 ns
80Y	0	(4-)	30.1 s 5
81Y	0	(5/2+)	70.4 s 10
81Y	1482.69 17	(15/2+)	> 0.7 ps
81Y	2594.5 6	(17/2-)	> 0.69 ps
83Y	0.0	9/2+	7.08 m 8
83Y	62.04 10	3/2-	2.85 m 2
84Y	0.0	(6+)	39.5 m 8
85Y	0.0	(1/2) -	2.68 h 5
85Y	19.68 17	(9/2)+	4.86 h 20
86Y	0.0	4-	14.74 h 2
86Y	218.21 9	(8+)	47.4 m 4
87Y	0.0	1/2-	79.8 h 3
87Y	380.82 7	9/2+	13.37 h 3
87Y	5759.59 24	(27/2-)	> 2.1 ps
88Y	0.0	4-	106.626 d 21
88Y	706.79 13	2-	> 10 ps
89Y	0.0	1/2-	STABLE
89Y	4825.38 17	17/2+	≥ 3.5 ps
90Y	0.0	2-	64.05 h 5
90Y	682.01 5	7+	3.19 h 6
91Y	0	1/2-	58.51 d 6
91Y	555.58 5	9/2+	49.71 m 4
92Y	0.0	2-	3.54 h 1
93Y	0.0	1/2-	10.18 h 8
94Y	0.0	2-	18.7 m 1
95Y	0.0	1/2-	10.3 m 1
78ZR	0	0+	> 170 ns
82ZR	0.0	0+	32 s 5
83ZR	0.0	(1/2-)	42 s 2
84ZR	0	0+	25.8 m 5
85ZR	0.0	(7/2+)	7.86 m 4
86ZR	0.0	0+	16.5 h 1
87ZR	0.0	9/2+	1.68 h 1
88ZR	0.0	0+	83.4 d 3
88ZR	9912.6 5	(19-)	> 0.7 ps
89ZR	0.0	9/2+	78.41 h 12
89ZR	587.82 10	1/2-	4.161 m 10
89ZR	1094.91 18	3/2-	> 0.05 ps

Levels Results

89ZR	1451.23	18	5/2-	> 3.5 ps
89ZR	2085.9	8	(5/2)+	> 2 ps
89ZR	3111.20	9	(19/2)+	> 2.8 ps
89ZR	5381.0	4	(27/2)+	> 0.7 ps
90ZR	0		0+	STABLE
90ZR	3448.230	14	6+	> 1.46 ps
91ZR	0.0		5/2+	STABLE
91ZR	2170.15	15	(11/2)-	> 5.5 ps
92ZR	0.0		0+	STABLE
92ZR	2066.65	5	2+	> 0.76 ps
92ZR	2743.55	7	4-	> 2.63 ps
93ZR	0.0		5/2+	$1.61 \times 10^{+6}$ y 5
94ZR	0.0		0+	STABLE
95ZR	0.0		5/2+	64.032 d 6
96ZR	3082.36	3	4+	> 1.4 ps
96ZR	3150.28	3	3-	> 0.54 ps
96ZR	3243.61	7		> 0.097 ps
96ZR	3448.72	8	(2+)	> 0.66 ps
96ZR	3749.38	10	4+	> 0.26 ps
97ZR	0.0		1/2+	16.749 h 8
98ZR	0.0		0+	30.7 s 4
86NB	0.0		(6+)	88 s 1
86NB	0+Y			56 s 8
87NB	0		(1/2)-	3.7 m 1
87NB	3.9	1	(9/2)+	2.6 m 1
88NB	0.0		(8+)	14.50 m 11
88NB	0.0+X		(4-)	7.7 m 1
89NB	0.0		(9/2+)	2.03 h 7
89NB	<35		(1/2)-	66 m 2
90NB	0		8+	14.60 h 5
91NB	0.0		9/2+	$6.8 \times 10^{+2}$ y 13
91NB	104.60	5	1/2-	60.86 d 22
91NB	1790.63	9	(9/2-)	> 1.6 ps
91NB	1844.93	13	(5/2)-	> 1.5 ps
91NB	2120.87	15	(7/2-)	> 1.0 ps
92NB	0.0		7+	$3.47 \times 10^{+7}$ y 24
92NB	135.5	4	(2)+	10.15 d 2
93NB	0.0		9/2+	STABLE
93NB	30.77	2	1/2-	16.12 y 12
93NB	810.32	9	5/2-	> 1.0 ps
93NB	1082.68	5	9/2+	> 2.8 ps
93NB	1369.86	17	5/2-	> 0.55 ps
93NB	1395.42	13	(7/2-)	> 0.55 ps
93NB	1588.06	17	3/2(-), 5/2(-)	> 0.87 ps
93NB	2002.52	10	(11/2+)	> 0.55 ps
94NB	0.0		6+	$2.03 \times 10^{+4}$ y 16
94NB	40.892	12	3+	6.263 m 4
95NB	0.0		9/2+	34.991 d 6
95NB	235.69	2	1/2-	3.61 d 3
96NB	0		6+	23.35 h 5
97NB	0.0		9/2+	72.1 m 7
97NB	743.35	3	1/2-	58.7 s 18
98NB	84	4	(5)+	51.1 m 4
99NB	365.27	8	1/2-	2.5 m 2
81MO	0			> 450 ns
88MO	0.0		0+	8.0 m 2
89MO	0.0		(9/2+)	2.11 m 10
90MO	0.0		0+	5.56 h 9
91MO	0		9/2+	15.49 m 1

Levels Results

91MO	653.01	9	1/2-	64.6 s 6
92MO	0.0		0+	STABLE
92MO	2282.61	5	4+	> 3.4 ps
92MO	2519.53	21	0+	> 3.4 ps
92MO	3368.68	7	(4+)	> 3.4 ps
92MO	3579.81	6	3-	> 0.21 ps
92MO	3621.06	7	(LE4)	> 0.21 ps
92MO	3688.77	7	1(-), 2, 3	> 0.69 ps
92MO	3814.58	8	2, 3	> 0.48 ps
92MO	3841.87	12	0+	> 0.21 ps
92MO	3963.19	16	4+	> 0.21 ps
93MO	0		5/2+	$4.0 \times 10^{+3}$ y 8
93MO	2424.95	4	21/2+	6.85 h 7
93MO	2667.95	7	(13/2+)	> 0.30 ps
93MO	2755.27	8	(11/2-)	> 0.54 ps
93MO	3048.23	10	(9/2-)	> 38 fs
93MO	3068.86	12	(13/2+)	> 0.125 ps
94MO	0.0		0+	STABLE
95MO	0.0		5/2+	STABLE
96MO	0.0		0+	STABLE
96MO	1625.905	16	2+	> 0.90 ps
96MO	1978.450	14	3+	> 2.29 ps
96MO	2219.425	14	4+	> 0.38 ps
96MO	2234.63	4	3-	> 0.277 ps
96MO	2438.477	15	5+	> 0.139 ps
96MO	2440.76	3	6+	> 0.208 ps
96MO	2481.06	6	(4)+	> 1.01 ps
96MO	2611.51	10		> 0.194 ps
96MO	2734.57	6	(4,5)+	> 0.25 ps
96MO	2755.08	3	6+	> 0.194 ps
96MO	2790.21	6	(2,4)	> 0.68 ps
96MO	3416.82	6	4+	> 0.61 ps
96MO	3623.19	10	(3+)	> 0.236 ps
97MO	0.0		5/2+	STABLE
98MO	0.0		0+	STABLE
99MO	0.0		1/2+	65.924 h 6
100MO	0.0		0+	$7.01 \times 10^{+18}$ y +21-17
101MO	0.0		1/2+	14.61 m 3
102MO	0.0		0+	11.3 m 2
103MO	0.0		(3/2+)	67.5 s 15
104MO	0.0		0+	60 s 2
105MO	0.0		(5/2-)	36.3 s 8
90TC	0		(8+)	49.2 s 4
91TC	0		(9/2)+	3.14 m 2
91TC	139.3	3	(1/2)-	3.3 m 1
92TC	0.0		(8)+	4.25 m 15
93TC	0.0		9/2+	2.75 h 5
93TC	391.84	8	1/2-	43.5 m 10
94TC	0.0		7+	293 m 1
94TC	76	3	(2)+	52.0 m 10
95TC	0.0		9/2+	20.0 h 1
95TC	38.91	4	1/2-	61 d 2
95TC	927.81	3	3/2+	≥ 589 fs
95TC	1084.97	4	(5/2)+	≥ 347 fs
95TC	1214.55	4	9/2-	≥ 624 fs
95TC	1416.41	5	3/2, 5/2 (-)	≥ 492 fs
95TC	1958.98	10	(5/2-)	≥ 596 fs
95TC	2212.90	13	(17/2-)	≥ 1.4 ps
95TC	3516.0	3	25/2+	> 5 ps
96TC	0.0		7+	4.28 d 7

Levels Results

96TC	34.23 4	4+	51.5 m 10
97TC	0.0	9/2+	$4.21 \times 10^{+6}$ y 16
97TC	96.57 6	1/2-	91.0 d 6
97TC	656.90 6	5/2-	≥ 0.76 ps
97TC	772.68 6	13/2+	≥ 0.35 ps
97TC	832.80 6	11/2(+)	≥ 0.35 ps
97TC	855.45 3	7/2+	≥ 0.37 ps
97TC	861.90 8	(9/2+)	≥ 0.38 ps
97TC	1049.22 7	3/2-	≥ 0.21 ps
97TC	1240.02 7	(7/2-)	≥ 0.26 ps
97TC	1441.1 10		≥ 0.21 ps
97TC	1733.3 4	(3/2+, 5/2, 7/2-)	≥ 0.54 ps
98TC	0.0	(6)+	$4.2 \times 10^{+6}$ y 3
99TC	0.0	9/2+	$2.111 \times 10^{+5}$ y 12
99TC	142.6836 11	1/2-	6.0072 h 9
101TC	0.0	9/2+	14.22 m 1
102TC	0.0+X	(4,5)	4.35 m 7
103TC	0.0	5/2+	54.2 s 8
104TC	0	(3+)	18.3 m 3
105TC	0.0	(3/2-)	7.64 m 6
106TC	0.0	(1,2)	35.6 s 6
85RU	0		> 450 ns
86RU	0	0+	> 438 ns
92RU	0.0	0+	3.65 m 5
93RU	0	(9/2)+	59.7 s 6
94RU	0.0	0+	51.8 m 6
95RU	0.0	5/2+	1.643 h 13
96RU	0.0	0+	STABLE
96RU	2588.41 8	5-	≥ 2.8 ps
97RU	0.0	5/2+	2.83 d 23
98RU	0.0	0+	STABLE
99RU	0.0	5/2+	STABLE
99RU	3982.8 3	(23/2)-	> 0.9 ps
100RU	0.0	0+	STABLE
100RU	1741.011 8	0+	> 1.39 ps
100RU	2075.675 15	6+	> 0.28 ps
100RU	2387.22 7	0+	> 0.52 ps
100RU	2493.06 4	(3,4,5+)	> 0.83 ps
100RU	2569.912 7	(3)-	> 0.30 ps
100RU	2576.872 15	5(+)	> 125 fs
100RU	2764.943 18	2+, 3+	> 0.17 ps
100RU	3069.525 6	(1,2)-	> 0.45 ps
100RU	3110.57 11	(2+, 3+)	> 0.26 ps
101RU	0.0	5/2+	STABLE
101RU	422.22 3	3/2+	≥ 1.4 ps
101RU	1622.3 5	19/2-	> 1.2 ps
101RU	1862.4 4	15/2+	> 1.7 ps
101RU	2173.9 5	17/2+	> 1.4 ps
102RU	0	0+	STABLE
103RU	0.0	3/2+	39.247 d 13
104RU	0.0	0+	STABLE
105RU	0.0	3/2+	4.439 h 11
106RU	0.0	0+	371.8 d 18
107RU	0.0	(5/2)+	3.75 m 5
108RU	0.0	0+	4.55 m 5
109RU	0.0	(5/2+)	34.4 s 2
94RH	0.0	(4+)	70.6 s 6
95RH	0.0	9/2+	5.02 m 10
95RH	543.3 3	(1/2)-	1.96 m 4

Levels Results

96RH	0.0	6+	9.90 m 10
96RH	51.98 9	3+	1.51 m 2
97RH	0.0	9/2+	30.7 m 6
97RH	258.76 18	1/2-	46.2 m 16
98RH	0.0	(2)+	8.72 m 12
98RH	56.3 10	(5+)	3.6 m 2
99RH	0.0	1/2-	16.1 d 2
99RH	64.4 5	9/2+	4.7 h 1
100RH	0.0	1-	20.5 h 3
100RH	107.59 20	(5+)	4.6 m 2
101RH	0.0	1/2-	3.3 y 3
101RH	157.32 3	9/2+	4.34 d 1
102RH	0.0	(1-,2-)	207.3 d 17
102RH	140.73 9	6(+)	3.742 y 10
103RH	0.0	1/2-	STABLE
103RH	39.753 6	7/2+	56.114 m 9
104RH	0.0	1+	42.3 s 4
104RH	128.9679 5	5+	4.34 m 3
105RH	0.0	7/2+	35.341 h 19
105RH	129.742 4	1/2-	42.8 s 3
106RH	0.0	1+	30.07 s 35
106RH	137 13	(6)+	131 m 2
107RH	0.0	7/2+	21.7 m 4
107RH	268.36 4	1/2-	> 10 μ s
108RH	0.0+X	(5+)	6.0 m 3
109RH	0.0	7/2+	80.8 s 7
122RH	0		> 300 ns
96PD	0.0	0+	122 s 2
97PD	0.0	(5/2+)	3.10 m 9
98PD	0.0	0+	17.7 m 4
99PD	0.0	(5/2)+	21.4 m 2
100PD	0.0	0+	3.63 d 9
101PD	0.0	5/2+	8.47 h 6
102PD	0	0+	STABLE
103PD	0.0	5/2+	16.991 d 19
104PD	0.0	0+	STABLE
105PD	0.0	5/2+	STABLE
106PD	0.0	0+	STABLE
107PD	0.0	5/2+	$6.5 \times 10^{+6}$ y 3
108PD	0	0+	STABLE
108PD	1314.23 6	0+	> 25 ps
109PD	0	5/2+	13.59 h 12
109PD	188.9903 10	11/2-	4.703 m 9
110PD	0.0	0+	STABLE
111PD	0.0	5/2+	23.4 m 2
111PD	172.18 8	11/2-	5.5 h 1
112PD	0.0	0+	21.04 h 17
113PD	0.0	(5/2+)	93 s 5
114PD	0	0+	2.42 m 6
115PD	89.21 16	(7/2-)	50 s 3
124PD	62.2+X 17		> 20 μ s
98AG	0.0	(6+)	47.5 s 3
99AG	0.0	(9/2)+	124 s 3
100AG	0.0	(5)+	2.01 m 10
100AG	15.52 16	(2)+	2.24 m 15
101AG	0.0	9/2+	11.1 m 3
102AG	0	5(+)	12.9 m 3
102AG	9.40 7	2+	7.7 m 5
103AG	0.0	7/2+	65.7 m 7
104AG	0.0	5+	69.2 m 10

Levels Results

104AG	6.90 22	2+	33.5 m 20
105AG	0.0	1/2-	41.29 d 7
105AG	25.468 16	7/2+	7.23 m 16
106AG	0.0	1+	23.96 m 4
106AG	89.66 7	6+	8.28 d 2
107AG	0.0	1/2-	STABLE
107AG	93.125 19	7/2+	44.3 s 2
108AG	0.0	1+	2.382 m 11
108AG	109.466 7	6+	438 y 9
109AG	0.0	1/2-	STABLE
109AG	88.0337 10	7/2+	39.79 s 21
110AG	117.59 5	6+	249.83 d 4
111AG	0.0	1/2-	7.45 d 1
111AG	59.82 4	7/2+	64.8 s 8
112AG	0.0	2(-)	3.130 h 8
113AG	0	1/2-	5.37 h 5
113AG	43.5 1	7/2+	68.7 s 16
115AG	0.0	1/2-	20.0 m 5
116AG	0.0	(0-)	230 s 5
117AG	0.0	(1/2-)	72.8 s +20-7
94CD	0	0+	> 760 ns
100CD	0.0	0+	49.1 s 5
100CD	1004.11 10	2+	> 1.0 ps
101CD	0.0	(5/2+)	1.36 m 5
102CD	0.0	0+	5.5 m 5
102CD	6746.16 15	(14-)	> 5.5 ps
102CD	7788.93 18	(16)	> 5.5 ps
102CD	8099.66 13	(17-)	> 1.25 ps
102CD	8942.69 18	(18-)	> 1.25 ps
103CD	0.0	(5/2)+	7.3 m 1
104CD	0.0	0+	57.7 m 10
105CD	0.0	5/2+	55.5 m 4
106CD	0.0	0+	STABLE
107CD	0.0	5/2+	6.50 h 2
108CD	0.0	0+	STABLE
109CD	0.0	5/2+	461.9 d 4
110CD	0.0	0+	STABLE
111CD	0.0	1/2+	STABLE
111CD	396.214 21	11/2-	48.50 m 9
111CD	736 10	3/2+, 5/2+	> 1 ns
112CD	0.0	0+	STABLE
112CD	2300.68 7	0+	> 623 fs
112CD	2570.21 6	5-	> 693 fs
112CD	2571.47 6	6+	> 693 fs
112CD	2591.05 5	4-	> 693 fs
112CD	2665.64 6	5+	> 208 fs
112CD	2773.08 8	(0)+	> 693 fs
112CD	2791.79 11	(4)-	> 97 fs
112CD	2816.71 7	4+	> 416 fs
112CD	2834.27 7	0+	> 347 fs
112CD	2840.22 11	(4)+	> 485 fs
112CD	2882.82 8	0+	> 693 fs
112CD	2893.51 6	4+	> 416 fs
112CD	2924.83 5	4-	> 139 fs
112CD	3066.23 10	(2,3)-	> 207 fs
112CD	3068.62 6	4+	> 555 fs
112CD	3071.46 8	(4)+	> 249 fs
112CD	3189.82 9	4+, 5, 6+	> 354 fs
112CD	3205.74 12	2+, 3, 4	> 111 fs
112CD	3392.78 12	1, 2+	> 693 fs

Levels Results

112CD	3393.39 4	0+:4+	> 970 fs
112CD	3402.93 10	1+,2+,3+	> 527 fs
112CD	3511.6 3	3:-7-	> 485 fs
112CD	3754.09 11	2+:6+	> 416 fs
113CD	0.0	1/2+	8.04×10^{15} y 5
113CD	263.54 3	11/2-	14.1 y 5
114CD	0	0+	STABLE
114CD	1864.262 8	3+	> 0.87 ps
114CD	1932.077 8	(4)+	> 0.31 ps
114CD	2152.266 8	3+,4+	> 0.35 ps
114CD	2204.561 8	3+	> 0.55 ps
114CD	2298.93 2	5-	> 1.04 ps
114CD	2437.64 8	0+	> 0.90 ps
114CD	2460.757 12	4-	> 0.68 ps
114CD	2525.420 10	2+	> 0.35 ps
114CD	2874.26 6	2,4	> 0.62 ps
114CD	2935.76 6	2+	> 0.35 ps
115CD	0.0	1/2+	53.46 h 5
115CD	181.0 5	(11/2)-	44.56 d 24
117CD	0.0	1/2+	2.49 h 4
117CD	136.4 2	(11/2)-	3.36 h 5
118CD	0.0	0+	50.3 m 2
119CD	0.0	1/2+	2.69 m 2
119CD	146.54 11	(11/2-)	2.20 m 2
120CD	0.0	0+	50.80 s 21
103IN	0.0	(9/2)+	65 s 7
103IN	631.7 1	(1/2-)	34 s 2
104IN	0	(6+)	1.80 m 3
105IN	0.0	9/2+	5.07 m 7
105IN	674.09 25	(1/2-)	48 s 6
106IN	0.0	7+	6.2 m 1
106IN	28.6 3	(2)+	5.2 m 1
107IN	0.0	9/2+	32.4 m 3
107IN	678.5 3	1/2-	50.4 s 6
108IN	0.0	7+	58.0 m 12
108IN	29.75 5	2+	39.6 m 7
109IN	0	9/2+	4.159 h 10
109IN	649.79 10	1/2-	1.34 m 6
109IN	3285.8 3	19/2-	> 1.0 ps
110IN	0.0	7+	4.92 h 8
110IN	62.08 4	2+	69.1 m 5
110IN	334.09 5	2+	\geq 4.9 ps
110IN	342.55 5	1+	\geq 4.9 ps
110IN	799.851 16	7-	\geq 2.0 ps
110IN	808.072 21	8-	\geq 2.4 ps
110IN	1006.06 3	(5,6)	\geq 1.7 ps
110IN	1017.93 4	9-	\geq 1.2 ps
110IN	1204.87 5	4-,5-,6-	\geq 1.1 ps
110IN	1482.35 6		\geq 1.8 ps
111IN	0.0	9/2+	2.8047 d 4
111IN	536.99 7	1/2-	7.7 m 2
111IN	2767.78 25	5/2+	> 1.4 ps
111IN	3024.53 14	23/2-	> 1.4 ps
112IN	0.0	1+	14.88 m 15
112IN	156.592 25	4+	20.67 m 8
113IN	0.0	9/2+	STABLE
113IN	391.699 3	1/2-	99.476 m 23
114IN	0.0	1+	71.9 s 1
114IN	190.2682 8	5+	49.51 d 1
115IN	0.0	9/2+	4.41×10^{14} y 25

Levels Results

115IN	336.244 17	1/2-	4.486 h 4
116IN	127.267 6	5+	54.29 m 17
117IN	0.0	9/2+	43.2 m 3
117IN	315.303 11	1/2-	116.2 m 3
118IN	~60	5+	4.45 m 5
119IN	0	9/2+	2.4 m 1
119IN	311.37 3	1/2-	18.0 m 3
120IN	0.0+X	(8-)	47.3 s 5
120IN	70 60	(5)+	46.2 s 8
121IN	313.68 7	1/2-	3.88 m 10
123IN	327.21 4	1/2-	47.4 s 8
123IN	2078.1+X	(21/2-)	≥ 100 μs
99SN	0		> 760 ns
105SN	0	(5/2+)	32.7 s 5
106SN	0.0	0+	115 s 5
107SN	0.0	(5/2+)	2.90 m 5
108SN	0.0	0+	10.30 m 8
109SN	0	5/2+	18.1 m 2
110SN	0.0	0+	4.154 h 4
111SN	0.0	7/2+	35.3 m 6
111SN	2257.4 3	(17/2)+	≥ 4 ns
112SN	0.0	0+	STABLE
112SN	2190.81 6	0+	≥ 2.7 ps
112SN	2476.16 11	2+	> 2.4 ps
112SN	2617.62 18	0+	> 0.4 ps
112SN	2756.02 9	3+	> 0.8 ps
112SN	2765.2 3	0+:4+	> 1.0 ps
112SN	2913.07 21	4+	> 0.6 ps
112SN	2917.39 10	2+,3,4+	> 1.1 ps
112SN	2926.82 18	6+	> 0.22 ps
112SN	2945.70 13	4+	> 1.1 ps
112SN	2986.4 3	0+	> 1.7 ps
112SN	3078.53 13	(2,3)+	> 1.2 ps
112SN	3133.42 11	5-	> 1.0 ps
112SN	3248.69 10	2+	> 1.1 ps
112SN	3338.3 3	2+	> 0.3 ps
112SN	3353.1 4	2+	> 1.4 ps
112SN	3417.41 11	4+	> 0.4 ps
112SN	3456.31 20	2+,3+	> 0.7 ps
112SN	3471.7 3	4+	> 0.23 ps
112SN	3524.54 18	2+	> 0.12 ps
112SN	3557.29 12		> 0.3 ps
113SN	0.0	1/2+	115.09 d 3
113SN	77.389 19	7/2+	21.4 m 4
113SN	498.07 5	3/2+	> 0.35 ps
113SN	2200.7 3	5/2+	> 0.24 ps
113SN	3223.2 5	(19/2)-	> 1.4 ps
113SN	4475.1 6	(27/2+)	> 1.1 ps
114SN	0	0+	STABLE
114SN	2156.28 3	0+	> 7.6 ps
114SN	2815.146 22	5-	> 1.4 ps
114SN	3244.39 7	6-	> 1.4 ps
115SN	0.0	1/2+	STABLE
115SN	2592.35 19	(15/2-)	> 2.4 ps
115SN	2938.24 17	(17/2-)	> 1.7 ps
115SN	3203.81 12	17/2-	> 1.0 ps
115SN	4060.18 13	(23/2-)	> 1.0 ps
116SN	0	0+	STABLE
117SN	0.0	1/2+	STABLE
117SN	314.58 4	11/2-	14.00 d 5

Levels Results

118SN	0.0	0+	STABLE
118SN	2328.02 3	2+	> 0.2 ps
118SN	2488.871 19	4+	> 0.55 ps
118SN	2677.35 3	2+	> 0.28 ps
119SN	0	1/2+	STABLE
119SN	89.531 13	11/2-	293.1 d 7
120SN	0.0	0+	STABLE
120SN	2159.931 25	0+	> 4 ps
120SN	2587.25 15	0+	> 0.34 ps
120SN	2643.353 20	4+	> 1.0 ps
121SN	0.0	3/2+	27.03 h 4
121SN	6.31 6	11/2-	43.9 y 5
122SN	0.0	0+	STABLE
122SN	2087.71 5	0+	> 0.277 ps
122SN	2675.57 6	0+	> 0.2 ps
123SN	0.0	11/2-	129.2 d 5
123SN	24.6 4	3/2+	40.06 m 2
124SN	0.0	0+	STABLE
124SN	2192.17 3	0+	> 0.55 ps
124SN	2688.50 5	0+	> 0.28 ps
124SN	2819.3 5	(6+)	> 0.4 ps
124SN	2836.58 4	3+	> 0.28 ps
124SN	2958.11 6	4+	> 0.9 ps
124SN	2988.03 3	3-	> 0.55 ps
124SN	3267.13 9	1,2,3	> 0.14 ps
125SN	0.0	11/2-	9.64 d 3
125SN	27.50 14	3/2+	9.52 m 5
126SN	0.0	0+	2.18×10^5 y 10
127SN	0.0	11/2-	2.10 h 4
127SN	5.07 6	3/2+	4.13 m 3
128SN	0.0	0+	59.07 m 14
129SN	0.0	3/2+	2.23 m 4
129SN	35.15 5	11/2-	6.9 m 1
130SN	0.0	0+	3.72 m 7
130SN	1946.88 10	(7-)	1.7 m 1
131SN	0.0	(3/2+)	56.0 s 5
131SN	0.0+X	(11/2-)	58.4 s 5
132SN	0.0	0+	39.7 s 8
111SB	0.0	(5/2+)	75 s 1
112SB	0.0	(3+)	53.5 s 6
113SB	0.0	5/2+	6.67 m 7
114SB	0.0	3+	3.49 m 3
115SB	0.0	5/2+	32.1 m 3
115SB	2638.42 9	15/2-	> 2.1 ps
116SB	0.0	3+	15.8 m 8
116SB	383 40	8-	60.3 m 6
117SB	0.0	5/2+	2.80 h 1
117SB	1159.99 8	9/2+	> 2 ps
117SB	1310.62 14	9/2+	> 50 fs
117SB	1471.7 8	7/2	≥ 367 fs
117SB	1536.53 16	(9/2+)	≥ 243 fs
117SB	1623.9 12	3/2	≥ 132 fs
117SB	2323.05 13	15/2-	> 2 ps
117SB	2778.65 25	17/2+	> 1.4 ps
117SB	3214.13 15	19/2-	> 1.4 ps
118SB	0.0	1+	3.6 m 1
118SB	250 6	8-	5.00 h 2
119SB	0	5/2+	38.19 h 22
119SB	699.88 5	3/2+, 5/2+	> 300 fs
119SB	1048.42 5	7/2+	> 300 fs

Levels Results

119SB	1327.25 11	(1/2-)	> 76 fs
119SB	1487.61 6	(3/2+)	> 215 fs
119SB	1646.5 10	1/2+	> 450 fs
119SB	1848.2 10		> 130 fs
120SB	0.0	1+	15.89 m 4
120SB	0.0+X	8-	5.76 d 2
121SB	0.0	5/2+	STABLE
121SB	1035.429 14	9/2+	> 0.3×10 ⁻³ ps
122SB	0.0	2-	2.7238 d 2
122SB	163.5591 17	(8)-	4.191 m 3
123SB	0.0	7/2+	STABLE
124SB	0.0	3-	60.20 d 3
124SB	10.8627 8	5+	93 s 5
124SB	36.8440 14	(8)-	20.2 m 2
125SB	0.0	7/2+	2.75856 y 25
126SB	0.0	(8-)	12.35 d 6
126SB	17.7 3	(5+)	19.15 m 9
127SB	0.0	7/2+	3.85 d 5
128SB	0.0	8-	9.05 h 4
128SB	0.0+X	5+	10.41 m 18
129SB	0.0	7/2+	4.366 h 26
129SB	1851.31 6	(19/2-)	17.7 m 1
130SB	0.0	(8-)	39.5 m 8
130SB	4.8 2	(4,5)+	6.3 m 2
131SB	0.0	(7/2+)	23.03 m 4
132SB	0.0	(4)+	2.79 m 7
132SB	0+X	(8-)	4.10 m 5
133SB	0.0	(7/2+)	2.34 m 5
112TE	0.0	0+	2.0 m 2
113TE	0	(7/2+)	1.7 m 2
114TE	0.0	0+	15.2 m 7
115TE	0.0	7/2+	5.8 m 2
115TE	<20	(1/2)+	6.7 m 4
116TE	0.0	0+	2.49 h 4
117TE	0	1/2+	62 m 2
118TE	0.0	0+	6.00 d 2
119TE	0.0	1/2+	16.05 h 5
119TE	260.96 5	11/2-	4.70 d 4
120TE	0.0	0+	STABLE
121TE	0.0	1/2+	19.17 d 4
121TE	293.974 22	11/2-	164.2 d 8
122TE	0.0	0+	STABLE
122TE	1357.401 24	0+	> 1.39 ps
122TE	1747.04 3	0+	> 1.32 ps
122TE	1940.44 9	0+	> 1.39 ps
122TE	2535.72 7	3,4,5	> 0.47 ps
122TE	2538.84 5		> 0.76 ps
123TE	0.0	1/2+	> 9.2×10 ⁺¹⁶ y
123TE	247.45 4	11/2-	119.2 d 3
124TE	0.0	0+	STABLE
125TE	0.0	1/2+	STABLE
125TE	144.775 8	11/2-	57.40 d 15
126TE	0.0	0+	STABLE
126TE	2218.085 19	5-	> 1.4 ps
126TE	3096.79 20		> 0.52 ps
127TE	0.0	3/2+	9.35 h 7
127TE	88.23 7	11/2-	106.1 d 7
128TE	2308.30 4	0+	> 1.7 ps
129TE	0.0	3/2+	69.6 m 3
129TE	105.51 3	11/2-	33.6 d 1

Levels Results

131TE	0.0	3/2+	25.0 m 1
131TE	182.258 18	11/2-	33.25 h 25
132TE	0.0	0+	3.204 d 13
133TE	0.0	(3/2+)	12.5 m 3
133TE	334.26 4	(11/2-)	55.4 m 4
134TE	0.0	0+	41.8 m 8
143TE	0		> 408 ns
112I	X		> 25 ps
115I	0.0	(5/2+)	1.3 m 2
117I	0.0	(5/2)+	2.22 m 4
118I	0.0	2-	13.7 m 5
118I	104.0+X 20	(7-)	8.5 m 5
119I	0.0	5/2+	19.1 m 4
120I	0.0	2-	81.6 m 2
120I	3.2E+2 15	(7-)	53 m 4
121I	0.0	5/2+	2.12 h 1
122I	0.0	1+	3.63 m 6
123I	0.0	5/2+	13.2230 h 19
124I	0.0	2-	4.1760 d 3
125I	0.0	5/2+	59.407 d 10
126I	0.0	2-	12.93 d 5
127I	0.0	5/2+	STABLE
128I	0.0	1+	24.99 m 2
129I	0.0	7/2+	$1.57 \times 10^{+7}$ y 4
130I	0.0	5+	12.36 h 1
130I	39.9525 13	2+	8.84 m 6
131I	0.0	7/2+	8.0252 d 6
132I	0.0	4+	2.295 h 13
132I	120 20	(8-)	1.387 h 15
133I	0.0	7/2+	20.83 h 8
134I	0.0	(4)+	52.5 m 2
134I	316.49 22	(8)-	3.52 m 4
135I	0.0	7/2+	6.58 h 3
136I	0	(1-)	83.4 s 4
136I	201 26	(6-)	46.6 s 11
144I	X		≥ 300 ns
145I	0		> 407 ns
116XE	0.0	0+	59 s 2
117XE	0.0	5/2(+)	61 s 2
118XE	0.0	0+	3.8 m 9
119XE	0.0	(5/2+)	5.8 m 3
120XE	0.0	0+	40 m 1
121XE	0.0	5/2(+)	40.1 m 20
122XE	0.0	0+	20.1 h 1
123XE	0.0	1/2(+)	2.050 h 14
124XE	0.0	0+	$\geq 1.6 \times 10^{+14}$ y
125XE	0.0	1/2(+)	16.9 h 2
125XE	252.61 14	9/2(-)	57 s 1
126XE	0.0	0+	STABLE
127XE	0.0	1/2+	36.346 d 3
127XE	297.10 8	9/2-	69.2 s 9
128XE	0.0	0+	STABLE
129XE	0.0	1/2+	STABLE
129XE	236.14 3	11/2-	8.88 d 2
130XE	0.0	0+	STABLE
131XE	0.0	3/2+	STABLE
131XE	163.930 8	11/2-	11.84 d 4
132XE	0.0	0+	STABLE
133XE	0.0	3/2+	5.2475 d 5
133XE	233.221 15	11/2-	2.198 d 13

Levels Results

135XE	0.0	3/2+	9.14 h 2
135XE	526.551 13	11/2-	15.29 m 5
137XE	0.0	7/2-	3.818 m 13
138XE	0.0	0+	14.14 m 7
139XE	0.0	3/2-	39.68 s 14
148XE	0	0+	> 0.4 μ s
119CS	0.0	9/2+	43.0 s 2
119CS	0.0+X	3/2(+)	30.4 s 1
120CS	0.0	2(+)	61.3 s 11
120CS	0.0+X	(7-)	57 s 6
121CS	0.0	3/2(+)	155 s 4
121CS	68.5 3	9/2(+)	122 s 3
122CS	45.87 12	(3)+	> 1 μ s
122CS	140 30	8(-)	3.70 m 11
123CS	0.0	1/2(+)	5.86 m 10
124CS	0.0	1+	30.9 s 4
125CS	0.0	1/2(+)	46.7 m 1
126CS	0.0	1+	1.643 m 17
126CS	272.44 25	(4)-	\geq 1 μ s
127CS	0.0	1/2+	6.25 h 10
128CS	0.0	1+	3.640 m 14
129CS	0.0	1/2+	32.06 h 6
130CS	0.0	1+	29.21 m 4
130CS	163.25 11	5-	3.46 m 6
131CS	0.0	5/2+	9.689 d 16
132CS	0	2+	6.480 d 6
133CS	0.0	7/2+	STABLE
134CS	0.0	4+	2.0652 y 4
134CS	138.7441 26	8-	2.912 h 2
135CS	0.0	7/2+	$2.3 \times 10^{+6}$ y 3
135CS	1632.9	19/2-	53 m 2
136CS	0.0	5+	13.01 d 5
137CS	0.0	7/2+	30.08 y 9
138CS	0.0	3-	32.5 m 2
138CS	79.9 3	6-	2.91 m 10
139CS	0.0	7/2+	9.27 m 5
140CS	0.0	1-	63.7 s 3
152CS	0		> 50 ms
121BA	0.0	5/2(+)	29.7 s 15
122BA	0.0	0+	1.95 m 15
123BA	0.0	5/2(+)	2.4 m 4
124BA	0.0	0+	11.0 m 5
125BA	0.0	1/2(+)	3.3 m 3
126BA	0.0	0+	100 m 2
127BA	0.0	1/2+	12.7 m 4
128BA	0.0	0+	2.43 d 5
129BA	0.0	1/2+	2.23 h 11
129BA	8.42 6	7/2+	2.135 h 10
130BA	0.0	0+	STABLE
131BA	0.0	1/2+	11.50 d 6
131BA	187.995 9	9/2-	14.6 m 2
133BA	0.0	1/2+	10.551 y 11
133BA	288.252 9	11/2-	38.93 h 10
134BA	0.0	0+	STABLE
135BA	0.0	3/2+	STABLE
135BA	268.218 20	11/2-	28.7 h 2
136BA	0.0	0+	STABLE
136BA	1578.969 22	0+	> 735 fs
136BA	2315.26 7	0+	> 0.85 ps
136BA	2587.08 3	(5)+	> 0.83 ps

Levels Results

137BA	0.0	3/2+	STABLE
137BA	661.659 3	11/2-	2.552 m 1
138BA	0.0	0+	STABLE
138BA	2189.861 22	(1,2+)	≥ 0.8 ps
138BA	3504.28 10	2-	≥ 0.2 ps
138BA	3600.73 10	1	≥ 0.09 ps
139BA	0.0	7/2-	82.93 m 9
140BA	0.0	0+	12.751 d 4
141BA	0.0	3/2-	18.27 m 7
142BA	0.0	0+	10.6 m 2
125LA	0.0	(3/2+)	64.8 s 12
126LA	0.0+V	(4,5)	54 s 2
126LA	0.0+W	(0-,1,2-)	< 50 s
127LA	0.0	(11/2-)	5.1 m 1
127LA	14.2 4	(3/2+)	3.7 m 4
128LA	0.0	(5+)	5.18 m 14
128LA	0.0+X	(1+,2-)	< 1.4 m
129LA	0.0	(3/2+)	11.6 m 2
129LA	1558.03 23	(23/2-)	≥ 1.2 ps
130LA	0.0	3(+)	8.7 m 1
131LA	0.0	3/2+	59 m 2
132LA	0.0	2-	4.8 h 2
132LA	188.20 11	6-	24.3 m 5
133LA	0.0	5/2+	3.912 h 8
134LA	0.0	1+	6.45 m 16
135LA	0.0	5/2+	19.5 h 2
136LA	0.0	1+	9.87 m 3
137LA	0.0	7/2+	6×10 ⁺⁴ y 2
138LA	0.0	5+	1.03×10 ⁺¹¹ y 1
139LA	0.0	7/2+	STABLE
140LA	0.0	3-	1.67858 d 21
141LA	0.0	7/2(+)	3.92 h 3
142LA	0.0	2-	91.1 m 5
143LA	0.0	(7/2)+	14.2 m 1
144LA	0.0	(3-)	40.8 s 4
126CE	0.0	0+	51.0 s 4
127CE	0	(1/2+)	34 s 2
127CE	36.8 12	(7/2-)	> 10 μs
128CE	0.0	0+	3.93 m 2
129CE	0.0	(5/2+)	3.5 m 3
130CE	0.0	0+	22.9 m 5
131CE	0.0	7/2+	10.3 m 3
131CE	63.09 9	(1/2+)	5.4 m 4
131CE	1451.8 4	(19/2-)	> 2.8 ps
132CE	0.0	0+	3.51 h 11
133CE	0.0	1/2+	97 m 4
133CE	37.2 7	9/2-	5.1 h 3
134CE	0.0	0+	3.16 d 4
135CE	0.0	1/2(+)	17.7 h 3
136CE	0.0	0+	STABLE
136CE	5642.6 8	16+	> 0.69 ps
136CE	5876.9 9	17+	> 0.69 ps
136CE	6170.2 9	(18+)	> 0.69 ps
137CE	0.0	3/2+	9.0 h 3
137CE	254.29 5	11/2-	34.4 h 3
138CE	0.0	0+	> 4.4×10 ⁺¹⁶ y
139CE	0.0	3/2+	137.63 d 3
139CE	754.24 8	11/2-	57.58 s 32
139CE	2088.6 3	3/2+,5/2+	> 0.8 ps

Levels Results

140CE	0.0	0+	STABLE
140CE	3016.9 5	0+	≥ 0.14 ps
140CE	3408.02 15	(2+)	≥ 0.062 ps
140CE	3539.1 3	2+	≥ 0.21 ps
140CE	3646.7 6	(1,2+)	≥ 0.062 ps
140CE	3723.54 17	(2+)	≥ 0.097 ps
141CE	0.0	7/2-	32.504 d 13
142CE	0.0	0+	$> 5 \times 10^{16}$ y
142CE	1652.91 4	3-	> 1.8 ps
142CE	2124.91 8	5-	> 0.41 ps
142CE	2374.96 8	+	> 0.69 ps
142CE	2576.23 6	3+	> 0.69 ps
142CE	2598.27 10	2+	> 1.66 ps
142CE	2734.77 9	(3,2)+	> 0.37 ps
142CE	2773.92 9	(3)+	> 0.69 ps
142CE	2859.75 10	4	> 0.69 ps
142CE	2868.97 10	(4)+	> 0.46 ps
142CE	2935.14 21	(2,3,4)	> 0.48 ps
142CE	3009.90 20		> 0.69 ps
142CE	3051.79 15	(3)+	> 0.69 ps
142CE	3109.79 15		> 0.69 ps
142CE	3125.71 20	(1,2,3)	> 0.65 ps
142CE	3155.36 15		> 0.69 ps
142CE	3180.37 15	1	> 0.69 ps
142CE	3218.21 20		> 0.69 ps
142CE	3300.74 21		> 0.69 ps
143CE	0.0	3/2-	33.039 h 6
144CE	0.0	0+	284.91 d 5
145CE	0.0	(5/2-)	3.01 m 6
146CE	0.0	0+	13.49 m 16
147CE	0.0	(5/2-)	56.4 s 10
148CE	0.0	0+	56.8 s 3
129PR	0.0	(3/2+)	30 s 4
130PR	0+X	(5+)	40.0 s 4
131PR	0.0	(3/2+)	1.51 m 2
132PR	0.0	(2)+	1.6 m 3
133PR	0.0	(3/2+)	6.5 m 3
134PR	0.0+X	2-	17 m 2
134PR	0.0+Y	(6-)	≈ 11 m
135PR	0.0	3/2(+)	24 m 1
136PR	0.0	2+	13.1 m 1
137PR	0.0	5/2+	1.28 h 3
138PR	0.0	1+	1.45 m 5
138PR	364 23	7-	2.03 h 2
139PR	0.0	5/2+	4.41 h 4
140PR	0.0	1+	3.39 m 1
141PR	0.0	5/2+	STABLE
141PR	1126.83 10	3/2+	> 188 fs
141PR	1657.07 16	1/2+	> 0.67 ps
141PR	1767.36 13	13/2+	> 0.37 ps
141PR	1986.08 16	(13/2+)	> 0.42 ps
141PR	2108.20 23	15/2(+)	> 28 fs
141PR	2126.10 15	(11/2+)	> 114 fs
141PR	2190.36 20	(1/2-)	> 215 fs
141PR	2267.20 18	(1/2+)	> 184 fs
141PR	2336.54 21	(15/2-)	> 28 fs
141PR	2454.20 22	(15/2+)	> 94 fs
141PR	2473.2 3	(1/2-, 9/2-)	> 14 fs
141PR	2580.71 16	(11/2+)	> 13 fs
141PR	2659.6 8	(11/2+)	> 156 fs

Levels Results

141PR	2718.5 4	(9/2,11/2)	> 159 fs
141PR	2739.7 4	(1/2-,9/2-)	> 87 fs
141PR	2782.7 3	(13/2+)	> 51 fs
141PR	2810.70 22	(1/2+)	> 76 fs
141PR	2847.5 3	(9/2+)	> 97 fs
141PR	2881.6 4	(7/2+)	> 55 fs
141PR	2887.47 25	(7/2+,9/2,11/2+)	> 24 fs
142PR	0.0	2-	19.12 h 4
142PR	3.694 3	5-	14.6 m 5
143PR	0.0	7/2+	13.57 d 2
144PR	0.0	0-	17.28 m 5
144PR	59.03 3	3-	7.2 m 3
145PR	0.0	7/2+	5.984 h 10
146PR	0.0	(2-)	24.09 m 10
147PR	0.0	(3/2+)	13.44 m 10
148PR	0.0	1-	2.29 m 2
148PR	76.80 20	4-	2.01 m 7
149PR	0.0	(5/2+)	2.26 m 8
151PR	35.10 10	(7/2+)	> 10 μ s
132ND	0.0	0+	94 s 8
133ND	0.0	(7/2+)	70 s 10
133ND	127.97 12	(1/2+)	\approx 70 s
134ND	0.0	0+	8.5 m 15
135ND	0.0	9/2(-)	12.4 m 6
136ND	0.0	0+	50.65 m 33
137ND	0.0	1/2+	38.5 m 15
138ND	0.0	0+	5.04 h 9
139ND	0.0	3/2+	29.7 m 5
139ND	231.16 5	11/2-	5.50 h 20
140ND	0.0	0+	3.37 d 2
141ND	0.0	3/2+	2.49 h 3
141ND	756.51 5	11/2-	62.0 s 8
142ND	0.0	0+	STABLE
142ND	2585.550 20	1(+)	> 0.17 ps
143ND	0.0	7/2-	STABLE
144ND	0	0+	2.29×10^{15} y 16
144ND	2109.79 3	4+	> 0.2 ps
144ND	2218.31 5	6+	> 0.7 ps
144ND	2295.41 3	4+	> 0.27 ps
144ND	2420.21 7	5+	> 0.7 ps
144ND	2655.097 24	(3+)	> 0.7 ps
144ND	2692.97 4	2+	> 0.12 ps
144ND	2715.79 7	(5,6)	> 0.7 ps
144ND	2808.83 9	6+	> 44 fs
144ND	2834.58 4	(4+)	> 0.7 ps
144ND	2868.26 5	(3,2+)	> 0.14 ps
144ND	2887.98 6	(5,4)	> 0.7 ps
144ND	2901.34 3	2+	> 0.06 ps
144ND	2950.98 6	3(+)	> 58 fs
145ND	0.0	7/2-	STABLE
146ND	0.0	0+	STABLE
147ND	0.0	5/2-	11.03 d 3
148ND	0.0	0+	STABLE
149ND	0.0	5/2-	1.726 h 5
150ND	0	0+	0.91×10^{19} y 7
151ND	0.0	3/2+	12.44 m 7
152ND	0.0	0+	11.4 m 2
153ND	0.0	(3/2)-	31.6 s 10
154ND	1349	(5-)	> 1 μ s
135PM	0+X	(3/2+,5/2+)	49 s 3

Levels Results

135PM	68.7+Y 22	(11/2-)	45 s 4
136PM	X	(2)	300 s 50
136PM	Y	(5-)	107 s 6
137PM	0.0	11/2-	2.4 m 1
138PM	X	(5-)	3.24 m 5
139PM	0.0	(5/2)+	4.15 m 5
140PM	0.0+X	8-	5.95 m 5
141PM	0.0	5/2+	20.90 m 5
141PM	2530.75 17		> 2 μ s
141PM	2574.4 4		\geq 2 μ s
142PM	0.0	1+	40.5 s 5
143PM	0.0	5/2+	265 d 7
144PM	0.0	5-	363 d 14
145PM	0.0	5/2+	17.7 y 4
146PM	0.0	3-	5.53 y 5
147PM	0.0	7/2+	2.6234 y 4
148PM	0.0	1-	5.368 d 7
148PM	137.9 3	5-,6-	41.29 d 11
149PM	0.0	7/2+	53.08 h 9
150PM	0	(1-)	2.698 h 15
151PM	0.0	5/2+	28.40 h 4
152PM	0.0	1+	4.12 m 8
152PM	1.5E+2 9	4-	7.52 m 8
152PM	150+X	(8)	13.8 m 2
153PM	0.0	5/2-	5.25 m 2
154PM	0	(3,4)	2.68 m 7
154PM	X	(0-,1-)	1.73 m 10
155PM	0.0	5/2-	41.5 s 2
158PM	121+X		> 16 μ s
136SM	0.0	0+	47 s 2
137SM	0.0	(9/2-)	45 s 1
138SM	0.0	0+	3.1 m 2
139SM	0.0	1/2+	2.57 m 10
139SM	5934.6 15	(39/2)	> 0.7 ps
140SM	0.0	0+	14.82 m 12
141SM	0.0	1/2+	10.2 m 2
141SM	175.9 3	11/2-	22.6 m 2
142SM	0.0	0+	72.49 m 5
143SM	0.0	3/2+	8.75 m 6
143SM	753.99 16	11/2-	66 s 2
144SM	0.0	0+	STABLE
144SM	2190.891 25	4+	> 0.14 ps
144SM	2477.651 23	0+	> 1.2 ps
144SM	2587.78 3	4+	> 0.12 ps
144SM	2707.04 11	(5+)	> 36 fs
144SM	2822.52 4	0+	> 0.76 ps
144SM	2825.71 3	(5-)	> 0.51 ps
144SM	3079.34 15	(5,6+,7)	> 7 ps
144SM	3124.07 7	7-	> 55 fs
144SM	3266.19 8	(4+,6)	> 15 fs
144SM	3308.27 10	(6+)	> 38 fs
144SM	3343.57 5	(3,4,5,6)	> 190 fs
145SM	0.0	7/2-	340 d 3
146SM	0.0	0+	$6.8 \times 10^{+7}$ y 7
147SM	0.0	7/2-	1.073×10^{11} y 10
148SM	0.0	0+	$7 \times 10^{+15}$ y 3
149SM	0.0	7/2-	STABLE
150SM	0.0	0+	STABLE
151SM	0.0	5/2-	90 y 8

Levels Results

152SM	0.0	0+	STABLE
152SM	1682.07 12	4-	> 596 fs
152SM	1754.98 4	0+	> 277 fs
153SM	0.0	3/2+	46.284 h 4
154SM	0.0	0+	STABLE
154SM	1177.812 21	2+	> 2.4 ps
155SM	0.0	3/2-	22.18 m 6
156SM	0	0+	9.4 h 2
156SM	75.89 5	2+	> 2 ns
157SM	0.0	(3/2-)	8.03 m 7
158SM	0.0	0+	5.30 m 3
141EU	0.0	5/2+	40.7 s 7
142EU	0.0+X	8-	1.223 m 8
143EU	0.0	5/2+	2.59 m 2
145EU	0.0	5/2+	5.93 d 4
146EU	0.0	4-	4.61 d 3
147EU	0.0	5/2+	24.1 d 6
148EU	0.0	5-	54.5 d 5
149EU	0.0	5/2+	93.1 d 4
150EU	0.0	5-	36.9 y 9
150EU	41.7 10	0-	12.8 h 1
151EU	0.0	5/2+	$\geq 1.7 \times 10^{18}$ y
152EU	0.0	3-	13.517 y 9
152EU	45.5998 4	0-	9.3116 h 13
152EU	147.86 10	8-	96 m 1
153EU	0.0	5/2+	STABLE
154EU	0.0	3-	8.601 y 10
154EU	145.3 3	8-	46.3 m 4
155EU	0.0	5/2+	4.753 y 14
156EU	0.0	0+	15.19 d 8
157EU	0.0	5/2+	15.18 h 3
158EU	0.0	(1-)	45.9 m 2
159EU	0.0	5/2+	18.1 m 1
160EU	0.0	(5-)	42.6 s 5
160EU	93.0 12	(1-)	30.8 s 5
136GD	0.0	0+	≥ 200 ns
142GD	0.0	0+	70.2 s 6
142GD	6620.8 6	18-	> 1.0 ps
142GD	7071.3 7	19-	> 1.0 ps
142GD	7455.3 8	(20-)	> 1.4 ps
143GD	0.0	(1/2)+	39 s 2
143GD	152.6	(11/2-)	110.0 s 14
144GD	0.0	0+	4.47 m 6
145GD	0.0	1/2+	23.0 m 4
145GD	749.1 2	11/2-	85 s 3
146GD	0.0	0+	48.27 d 9
147GD	0.0	7/2-	38.06 h 12
148GD	0.0	0+	71.1 y 12
149GD	0.0	7/2-	9.28 d 10
150GD	0.0	0+	1.79×10^{16} y 8
151GD	0.0	7/2-	123.9 d 10
152GD	0.0	0+	1.08×10^{14} y 8
153GD	0.0	3/2-	240.4 d 10
154GD	0.0	0+	STABLE
155GD	0.0	3/2-	STABLE
156GD	0.0	0+	STABLE
156GD	1319.658 2	2-	> 3.9 ps
156GD	1468.506 2	4-	> 3.5 ps
157GD	0.0	3/2-	STABLE

Levels Results

158GD	0.0	0+	STABLE
158GD	1743.147 14	0+	> 0.75 ps
159GD	0.0	3/2-	18.479 h 4
160GD	0.0	0+	STABLE
160GD	1057.426 19	3+	> 1525 fs
160GD	1376.73 3	2-	> 381 fs
160GD	1379.54 4	0+	> 936 fs
160GD	1436.27 3	2+	> 236 fs
160GD	1498.85 5	4-	> 277 fs
160GD	1558.35 8	0+	> 409 fs
160GD	1561.45 5	4+	> 222 fs
160GD	1586.56 4	2+	> 347 fs
160GD	1804.97 6	2+	> 208 fs
161GD	0	5/2-	3.66 m 5
162GD	0	0+	8.4 m 2
163GD	0.0	(5/2-, 7/2+)	68 s 3
164GD	0.0	0+	45 s 3
138TB	X		≥ 200 ns
145TB	Y	(11/2-)	30.9 s 6
147TB	0.0	(1/2+)	1.64 h 3
147TB	50.6 9	(11/2-)	1.83 m 6
148TB	0.0	2-	60 m 1
148TB	90.1 3	(9)+	2.20 m 5
149TB	0.0	1/2+	4.12 h 3
149TB	35.75 8	11/2-	4.17 m 5
150TB	0	(2)-	3.48 h 16
150TB	461 27	9+	5.8 m 2
151TB	0.0	1/2(+)	17.609 h 14
152TB	0.0	2-	17.5 h 1
152TB	501.74 19	8+	4.2 m 1
153TB	0.0	5/2+	2.34 d 1
154TB	0.0	0	21.5 h 4
154TB	0+X	3-	9.4 h 4
154TB	0+Y	7-	22.7 h 5
155TB	0.0	3/2+	5.32 d 6
156TB	0.0	3-	5.35 d 10
156TB	49.630+X	(7-)	24.4 h 10
156TB	88.4	(0+)	5.3 h 2
157TB	0.0	3/2+	71 y 7
158TB	0.0	3-	180 y 11
159TB	0.0	3/2+	STABLE
160TB	0.0	3-	72.3 d 2
161TB	0.0	3/2+	6.89 d 2
162TB	0.0	1-	7.60 m 15
163TB	0.0	3/2+	19.5 m 3
164TB	0	(5+)	3.0 m 1
165TB	0	(3/2+)	2.11 m 10
146DY	0.0	0+	33.2 s 7
147DY	0.0	(1/2+)	67 s 7
147DY	750.5 4	(11/2-)	55.2 s 5
148DY	0.0	0+	3.3 m 2
149DY	0.0	7/2-	4.2 m 2
150DY	0	0+	7.17 m 5
151DY	0.0	7/2(-)	17.9 m 3
152DY	0.0	0+	2.38 h 2
153DY	0.0	7/2(-)	6.4 h 1
154DY	0.0	0+	$3.0 \times 10^{+6}$ y 15
155DY	0.0	3/2-	9.9 h 2
155DY	10520.6 14	71/2-	≥ 1.0 ps
155DY	11450.6 18	75/2-	≥ 1.0 ps

Levels Results

156DY	0	0+	STABLE
157DY	0.0	3/2-	8.14 h 4
158DY	0.0	0+	STABLE
158DY	1607.99 9	(2)+	> 0.18 ps
159DY	0	3/2-	144.4 d 2
160DY	0.0	0+	STABLE
161DY	0	5/2+	STABLE
162DY	0.0	0+	STABLE
163DY	0.0	5/2-	STABLE
164DY	0.0	0+	STABLE
165DY	0.0	7/2+	2.331 h 4
165DY	108.1562 13	1/2-	1.257 m 6
166DY	0	0+	81.6 h 1
167DY	0.0	(1/2-)	6.20 m 8
168DY	0.0	0+	8.7 m 3
169DY	0.0	(5/2)-	39 s 8
170DY	0.0	0+	55 s 8
172DY	0	0+	> 160 ns
174DY	0	0+	> 160 ns
149HO	48.8 2	(1/2+)	56 s 3
149HO	7.20E3 35		≥ 100 ns
150HO	0.0	(2)-	72 s 4
151HO	0.0	(11/2-)	35.2 s 1
151HO	41.0 2	(1/2+)	47.2 s 13
152HO	0.0	2-	161.8 s 3
152HO	160 1	9+	49.8 s 2
153HO	0.0	11/2-	2.01 m 3
153HO	68.7 3	1/2+	9.3 m 5
154HO	0.0	2-	11.76 m 19
154HO	0+X 8	8+	3.10 m 14
155HO	0.0	5/2+	48 m 2
156HO	0	4-	56 m 1
156HO	52.37+X	9+	7.6 m 3
157HO	0	7/2-	12.6 m 2
158HO	0.0	5+	11.3 m 4
158HO	67.20 1	2-	28 m 2
158HO	180 Calc.	(9+)	21.3 m 23
159HO	0	7/2-	33.05 m 11
160HO	0.0	5+	25.6 m 3
160HO	59.98 3	2-	5.02 h 5
161HO	0.0	7/2-	2.48 h 5
162HO	0	1+	15.0 m 10
162HO	105.87 6	6-	67.0 m 7
163HO	0.0	7/2-	4570 y 25
163HO	1505.2	(17/2+)	≥ 15 ns
164HO	0.0	1+	28.8 m 5
164HO	139.78 7	6-	36.6 m 3
165HO	0.0	7/2-	STABLE
166HO	0.0	0-	26.824 h 12
166HO	5.969 12	7-	1.20×10^3 y 18
167HO	0.0	7/2-	2.98 h 3
168HO	0.0	3+	2.99 m 7
168HO	≈59	(6+)	132 s 4
168HO	143.43 17	(1)-	> 4 μs
169HO	0.0	7/2-	4.72 m 10
170HO	0.0	(6+)	2.76 m 5
170HO	120 70	(1+)	43 s 2
171HO	0.0	(7/2-)	53 s 2
176HO	0		> 160 ns
144ER	0.0	0+	≥ 200 ns

Levels Results

153ER	0.0	(7/2-)	37.1 s 2
154ER	0	0+	3.73 m 9
155ER	0.0	7/2-	5.3 m 3
156ER	0	0+	19.5 m 10
157ER	0	3/2-	18.65 m 10
158ER	0.0	0+	2.29 h 6
159ER	0	3/2-	36 m 1
160ER	0.0	0+	28.58 h 9
161ER	0	3/2-	3.21 h 3
162ER	0	0+	STABLE
162ER	1623.24 10	3-	> 0.31 ns
163ER	0.0	5/2-	75.0 m 4
164ER	0.0	0+	STABLE
164ER	3263.09 18	16+	> 0.30 ps
165ER	0.0	5/2-	10.36 h 4
166ER	0.0	0+	STABLE
166ER	1713.4 7	0+	> 0.97 ps
167ER	0.0	7/2+	STABLE
168ER	0.0	0+	STABLE
168ER	1411.0959 18	4+	> 0.83 ps
168ER	1616.8060 19	6+	> 1.7 ps
169ER	0.0	1/2-	9.392 d 18
170ER	0.0	0+	STABLE
171ER	0.0	5/2-	7.516 h 2
172ER	0.0	0+	49.3 h 5
173ER	0.0	(7/2-)	1.4 m 1
174ER	0.0	0+	3.2 m 2
175ER	0.0	(9/2+)	1.2 m 3
176ER	0	0+	> 160 ns
178ER	0	0+	> 160 ns
155TM	41 6	1/2+	45 s 4
156TM	0	2-	83.8 s 18
157TM	0	1/2+	3.63 m 9
158TM	0.0	2-	3.98 m 6
159TM	0	5/2+	9.13 m 16
160TM	0.0	1-	9.4 m 3
160TM	70 20	5	74.5 s 15
161TM	0	7/2+	30.2 m 8
162TM	0	1-	21.70 m 19
163TM	0.0	1/2+	1.810 h 5
164TM	0.0	1+	1.95 m 10
164TM	0.0+X	6-	5.1 m 1
165TM	0.0	1/2+	30.06 h 3
166TM	0.0	2+	7.70 h 3
167TM	0.0	1/2+	9.25 d 2
168TM	0.0	3+	93.1 d 2
169TM	0.0	1/2+	STABLE
170TM	0.0	1-	128.6 d 3
171TM	0.0	1/2+	1.92 y 1
172TM	0.0	2-	63.6 h 3
173TM	0.0	(1/2+)	8.24 h 8
174TM	0.0	(4)-	5.4 m 1
175TM	0.0	(1/2+)	15.2 m 5
176TM	0.0	(4+)	1.85 m 3
177TM	0.0	(1/2+)	95 s 7
177TM	0.0+X	(7/2-)	77 s 11
178TM	0		> 300 ns
179TM	0		> 160 ns
180TM	0.0		> 300 ns
181TM	0		> 160 ns

Levels Results

150YB	0.0	0+	≥ 200 ns
157YB	0.0	7/2-	38.6 s 10
158YB	0.0	0+	1.49 m 13
159YB	0	5/2(-)	1.67 m 9
160YB	0.0	0+	4.8 m 2
161YB	0	3/2-	4.2 m 2
162YB	0	0+	18.87 m 19
163YB	0.0	3/2-	11.05 m 35
163YB	58.1	(3/2-, 5/2, 7/2-)	> 10 ns
164YB	0.0	0+	75.8 m 17
165YB	0.0	5/2-	9.8 m 5
166YB	0.0	0+	56.7 h 1
167YB	0.0	5/2-	17.5 m 2
168YB	0.0	0+	STABLE
169YB	0.0	7/2+	32.018 d 5
169YB	24.1999 16	1/2-	46 s 2
170YB	0.0	0+	STABLE
171YB	0.0	1/2-	STABLE
172YB	0.0	0+	STABLE
173YB	0.0	5/2-	STABLE
174YB	0.0	0+	STABLE
175YB	0.0	(7/2-)	4.185 d 1
176YB	0.0	0+	STABLE
177YB	0.0	9/2+	1.911 h 3
178YB	0.0	0+	74 m 3
179YB	0.0	(1/2-)	8.0 m 4
180YB	0.0	0+	2.4 m 5
181YB	0		> 160 ns
182YB	0	0+	> 160 ns
183YB	0.0		≥ 222 ns
184YB	0	0+	> 160 ns
185YB	0		> 160 ns
153LU	2502.5 4	(23/2-)	> 0.1 μ s
160LU	≥ 0.0		36.1 s 3
160LU	0.0+X		40 s 1
161LU	0	1/2+	77 s 2
162LU	0	1-	1.37 m 2
162LU	X	(4-)	1.5 m
162LU	Y		1.9 m
163LU	0.0	1/2(+)	3.97 m 13
164LU	0.0	1(-)	3.14 m 3
165LU	0.0	1/2+	10.74 m 10
165LU	4996.50+X 28	(47/2-)	> 0.19 ps
165LU	5740.6+X 4	(51/2-)	> 0.13 ps
166LU	0.0	6-	2.65 m 10
166LU	34.37 22	3(-)	1.41 m 10
166LU	43.0 4	0-	2.12 m 10
167LU	0.0	7/2+	51.46 m 15
167LU	33.7 4	1/2+	≥ 1 m
168LU	0.0	6(-)	5.5 m 1
168LU	202.81 12	3+	6.7 m 4
169LU	0.0	7/2+	34.06 h 5
169LU	29.0 5	1/2-	160 s 10
170LU	0.0	0+	2.012 d 30
171LU	0.0	7/2+	8.247 d 23
171LU	71.13 8	1/2-	79 s 2
172LU	0.0	4-	6.70 d 3
172LU	41.86 4	1-	3.7 m 5
173LU	0.0	7/2+	1.37 y 1
174LU	0.0	(1)-	3.31 y 5

Levels Results

174LU	170.83 5	(6)-	142 d 2
175LU	0.0	7/2+	STABLE
176LU	0.0	7-	$3.76 \times 10^{+10}$ y 7
176LU	122.845 4	1-	3.664 h 19
177LU	0.0	7/2+	6.6443 d 9
177LU	970.1757 24	23/2-	160.4 d 3
178LU	0	1(+)	28.4 m 2
178LU	123.8 26	(9-)	23.1 m 3
179LU	0.0	7/2+	4.59 h 6
180LU	0.0	5+	5.7 m 1
180LU	624.0 5	(9-)	≥ 1 ms
181LU	0.0	(7/2+)	3.5 m 3
182LU	0		2.0 m 2
183LU	0.0	(7/2+)	58 s 4
185LU	0		> 160 ns
162HF	0	0+	39.4 s 9
163HF	0.0	(5/2-)	40.0 s 6
164HF	0	0+	111 s 8
165HF	0.0	(5/2-)	76 s 4
166HF	0.0	0+	6.77 m 30
167HF	0.0	(5/2-)	2.05 m 5
168HF	0.0	0+	25.95 m 20
169HF	0.0	5/2-	3.24 m 4
170HF	0.0	0+	16.01 h 13
171HF	0.0	7/2(+)	12.1 h 4
171HF	21.93 9	1/2(-)	29.5 s 9
172HF	0.0	0+	1.87 y 3
173HF	0.0	1/2-	23.6 h 1
174HF	0.0	0+	$2.0 \times 10^{+15}$ y 4
175HF	0.0	5/2(-)	70 d 2
175HF	7455.2 17	(57/2-)	> 7 ns
176HF	0.0	0+	STABLE
177HF	0.0	7/2-	STABLE
177HF	2740.02 15	37/2-	51.4 m 5
178HF	0.0	0+	STABLE
178HF	2446.09 8	16+	31 y 1
179HF	0.0	9/2+	STABLE
179HF	1105.74 16	25/2-	25.05 d 25
180HF	0.0	0+	STABLE
180HF	1141.552 15	8-	5.53 h 2
180HF	2537.4 10	(14+)	> 10 μ s
181HF	0.0	1/2-	42.39 d 6
182HF	0.0	0+	$8.90 \times 10^{+6}$ y 9
182HF	1172.87 18	(8-)	61.5 m 15
183HF	0.0	(3/2-)	1.018 h 2
184HF	0.0	0+	4.12 h 5
184HF	1272.2 4	(8-)	48 s 10
185HF	0.0		3.5 m 6
186HF	0.0	0+	2.6 m 12
186HF	2968 43		> 20 s
165TA	0.0	(9/2-)	31.0 s 15
166TA	0.0	(2)+	34.4 s 5
167TA	0.0	(3/2+)	80 s 4
168TA	0.0	(2-, 3+)	2.0 m 1
169TA	0.0	(5/2+)	4.9 m 4
170TA	0.0	(3+)	6.76 m 6
171TA	0.0	(5/2+)	23.3 m 3
171TA	31.2	(5/2-)	23.3 m 3
171TA	2571.0 3	(33/2-)	> 0.69 ps

Levels Results

172TA	0.0	(3+)	36.8 m 3
173TA	0.0	5/2-	3.14 h 13
174TA	0.0	3+	1.14 h 8
175TA	0.0	7/2+	10.5 h 2
176TA	0.0	(1)-	8.09 h 5
177TA	0.0	7/2+	56.36 h 13
178TA	0.0+X	7-	2.36 h 8
178TA	0.0+Y	(1+)	9.31 m 3
179TA	0.0	7/2+	1.82 y 3
180TA	0.0	1+	8.154 h 6
180TA	77.2 12	9-	> 7.1×10 ¹⁵ y
181TA	0.0	7/2+	STABLE
182TA	0.0	3-	114.74 d 12
182TA	519.577 16	10-	15.84 m 10
183TA	0.0	7/2+	5.1 d 1
184TA	0.0	(5-)	8.7 h 1
185TA	0.0	(7/2+)	49.4 m 15
185TA	1258.5+X	(21/2)	> 1 ms
186TA	0.0	(3-)	10.39 m 3
186TA	336 20		1.54 m 5
187TA	0.0	(7/2+)	283 s 10
187TA	2933 14	(41/2+)	> 5 m
191TA	0		> 300 ns
168W	0.0	0+	50.9 s 19
168W	1834.2 4	7(-)	> 3.1 ps
168W	2581.6 9	(10+)	> 104 ps
169W	0.0	(5/2-)	74 s 6
170W	0.0	0+	2.42 m 4
171W	0.0	(5/2-)	2.38 m 4
172W	0.0	0+	6.6 m 9
173W	0.0	5/2-	7.6 m 2
174W	0.0	0+	33.2 m 21
174W	1672.0 5		≥ 187 ns
175W	0.0	(1/2-)	35.2 m 6
176W	0.0	0+	2.5 h 1
177W	0.0	1/2-	132.4 m 20
178W	0.0	0+	21.6 d 3
179W	0.0	7/2-	37.05 m 16
179W	221.91 3	1/2-	6.40 m 7
180W	0.0	0+	1.8×10 ¹⁸ y 2
181W	0.0	9/2+	121.2 d 2
182W	0.0	0+	STABLE
184W	0.0	0+	STABLE
184W	1431.02 5	2+	> 5 ps
185W	0.0	3/2-	75.1 d 3
185W	197.383 23	11/2+	1.67 m 3
186W	0.0	0+	STABLE
187W	0.0	3/2-	23.80 h 3
188W	0	0+	69.78 d 12
189W	0		11.6 m 2
190W	0.0	0+	30.0 m 15
195W	0		> 160 ns
196W	0	0+	> 160 ns
197W	0		> 160 ns
172RE	0+Y	(2)	55 s 5
173RE	0.0	(5/2-)	1.98 m 26
174RE	0.0		2.40 m 4
175RE	0.0	(5/2-)	5.89 m 5
176RE	0.0	(3+)	5.3 m 3
177RE	0.0	5/2-	14 m 1

Levels Results

177RE	0.0+X	9/2-	> 100 ns
178RE	0.0	(3+)	13.2 m 2
179RE	0.0	5/2+	19.5 m 1
180RE	0.0	(1)-	2.46 m 3
181RE	0.0	5/2+	19.9 h 7
182RE	0.0	7+	64.2 h 5
182RE	0.0+X	2+	14.14 h 45
183RE	0.0	5/2+	70.0 d 14
184RE	0.0	3(-)	35.4 d 7
184RE	188.0463 17	8(+)	169 d 8
185RE	0.0	5/2+	STABLE
186RE	0.0	1-	3.7185 d 5
186RE	148.2 5	(8+)	$2.0 \times 10^{+5}$ y
187RE	0.0	5/2+	$4.33 \times 10^{+10}$ y 7
187RE	589.143 16	3/2+	> 1.4 ps
188RE	0.0	1-	17.005 h 3
188RE	172.0848 24	6-	18.59 m 4
189RE	0	5/2+	24.3 h 4
190RE	0	(2)-	3.0 m 2
190RE	204 10	(6-)	3.1 h 2
191RE	0.0	(3/2+, 1/2+)	9.8 m 5
192RE	267 10		61 s +40-20
194RE	285 40	(11-)	25 s 8
194RE	833 33		100 s 10
197RE	0		> 160 ns
198RE	0		> 160 ns
199RE	0		> 160 ns
173OS	141.2 2	(9/2+)	> 28 ns
174OS	0.0	0+	44 s 4
175OS	0.0	(5/2-)	1.4 m 1
176OS	0.0	0+	3.6 m 5
177OS	0.0	1/2-	3.0 m 2
178OS	0.0	0+	5.0 m 4
179OS	0.0	1/2-	6.5 m 3
180OS	0.0	0+	21.5 m 4
181OS	0.0	1/2-	105 m 3
181OS	49.20 14	7/2-	2.7 m 1
182OS	0.0	0+	21.84 h 20
183OS	0.0	9/2+	13.0 h 5
183OS	170.73 7	1/2-	9.9 h 3
184OS	0.0	0+	> 5.6×10^{13} y
185OS	0.0	1/2-	93.6 d 5
186OS	0.0	0+	$2.0 \times 10^{+15}$ y 11
186OS	3440.4 6	(14+)	≥ 0.92 ps
187OS	0.0	1/2-	STABLE
188OS	0.0	0+	STABLE
189OS	0.0	3/2-	STABLE
189OS	30.82 2	9/2-	5.81 h 10
189OS	427.93 4	5/2-, 7/2-	> 4.4 ps
189OS	531.55 3	5/2-	> 0.26 ps
189OS	550.04 3	3/2-	> 0.039 ps
190OS	0.0	0+	STABLE
190OS	1705.7 1	10-	9.86 m 3
191OS	0.0	9/2-	15.4 d 1
191OS	74.382 3	3/2-	13.10 h 5
192OS	0.0	0+	STABLE
192OS	3103.8 15	(12+)	≥ 2.1 ps
193OS	0.0	3/2-	29.830 h 18
194OS	0.0	0+	6.0 y 2

Levels Results

195OS	0.0	(3/2-)	6.5 m 11
195OS	454 10		> 9 m
196OS	0.0	0+	34.9 m 2
197OS	0		2.8 m 6
202OS	0	0+	> 160 ns
177IR	0.0	5/2-	29.8 s 17
177IR	0.0+X	(9/2-)	> 100 ns
177IR	180.9 4	5/2+	> 100 ns
178IR	140.50+Y 10	(8-)	≥ 4 ns
179IR	0.0	(5/2)-	79 s 1
180IR	0.0	(5+)	1.5 m 1
181IR	0.0	5/2-	4.90 m 15
182IR	0.0	3+	15.0 m 10
183IR	0.0	5/2-	58 m 6
184IR	0.0	5-	3.09 h 3
184IR	432.49 11	(2)+	> 10 ns
185IR	0.0	5/2-	14.4 h 1
186IR	0.0	5+	16.64 h 3
186IR	X+0.0	2-	1.90 h 5
187IR	0.0	3/2+	10.5 h 3
188IR	0.0	1-	41.5 h 5
189IR	0.0	3/2+	13.2 d 1
190IR	0.0	4-	11.78 d 10
190IR	26.1 1	(1)-	1.120 h 3
190IR	36.154 25	4+	> 2 μs
190IR	376.4 1	11-	3.087 h 12
191IR	0.0	3/2+	STABLE
191IR	624.07 4	(1/2+)	> 5 ps
192IR	0.0	4+	73.829 d 11
192IR	56.720 5	1-	1.45 m 5
192IR	118.7824 18	3-	> 15 ns
192IR	168.14 12	(11-)	241 y 9
193IR	0.0	3/2+	STABLE
193IR	80.238 6	11/2-	10.53 d 4
194IR	0.0	1-	19.18 h 3
194IR	190.0+X	(10,11)	171 d 11
195IR	0.0	3/2+	2.29 h 17
195IR	100 5	11/2-	3.67 h 8
196IR	0.0	(0-)	52 s 1
196IR	4.1E+2 11	(10,11-)	1.40 h 2
197IR	0.0	3/2+	5.8 m 5
197IR	115 5	11/2-	8.9 m 3
200IR	0	(2-,3-)	43 s 6
204IR	0		> 160 ns
180PT	0.0	0+	56 s 3
181PT	0.0	1/2-	52.0 s 22
181PT	116.65 8	(7/2)-	> 300 ns
182PT	0.0	0+	2.67 m 12
183PT	0.0	1/2-	6.5 m 10
183PT	34.74 7	7/2-	43 s 5
183PT	195.90 10	(9/2)+	> 150 ns
184PT	0.0	0+	17.3 m 2
185PT	0.0	9/2+	70.9 m 24
185PT	103.41 5	1/2-	33.0 m 8
186PT	0.0	0+	2.10 h 5
187PT	0.0	3/2-	2.35 h 3
188PT	0.0	0+	10.16 d 18
189PT	0.0	3/2-	10.87 h 12
190PT	0.0	0+	4.97×10^{11} y 16
191PT	0.0	3/2-	2.83 d 2

Levels Results

191PT	100.663	20	(9/2)-	> 1 μ s
192PT	0.0		0+	STABLE
193PT	0.0		1/2-	50 y 6
193PT	149.78	4	13/2+	4.33 d 3
194PT	0.0		0+	STABLE
195PT	0.0		1/2-	STABLE
195PT	259.077	23	13/2+	4.010 d 5
195PT	455.272	7	5/2-	> 10.5 ps
195PT	544.1	5	(5/2-)	> 2.8 ps
195PT	678.3	10	5/2-, 7/2-	> 72.8 ps
195PT	1189	6	5/2-, 7/2-	$\geq 2.4 \times 10^{-6}$ eV
196PT	0.0		0+	STABLE
196PT	2429.7	4	3-	> 166 fs
196PT	2603.2	2	(1,2,3,4,5)	> 66 fs
196PT	2606.0	1	(2,3,4,5)	> 111 fs
196PT	2711.0	1	3-	> 55 fs
197PT	0.0		1/2-	19.8915 h 19
197PT	399.59	20	13/2+	95.41 m 18
198PT	0.0		0+	STABLE
199PT	0.0		5/2-	30.80 m 21
200PT	0.0		0+	12.6 h 3
201PT	0.0		(5/2-)	2.46 m 9
202PT	0		0+	44 h 15
206PT	0		0+	> 160 ns
179AU	86+X	13		> 100 μ s
183AU	0.0		(5/2)-	42.8 s 10
183AU	73.3	4	(1/2)+	> 1 μ s
184AU	68.46	4	2+	47.6 s 14
185AU	0.0		5/2-	4.25 m 6
185AU	0.0+X			6.8 m 3
186AU	0.0		3-	10.7 m 5
187AU	0.0		1/2(+)	8.3 m 2
188AU	0.0		1-	8.84 m 6
188AU	0.0+X		(11-)	> 400 ns
189AU	0.0		1/2+	28.7 m 4
189AU	247.25	16	11/2-	4.59 m 11
190AU	0.0		1-	42.8 m 10
191AU	0.0		3/2+	3.18 h 8
192AU	0.0		1-	4.94 h 9
193AU	0.0		3/2+	17.65 h 15
194AU	0.0		1-	38.02 h 10
195AU	0.0		3/2+	186.01 d 6
195AU	318.58	4	11/2-	30.5 s 2
196AU	0.0		2-	6.1669 d 6
196AU	595.66	4	12-	9.6 h 1
197AU	0.0		3/2+	STABLE
198AU	0.0		2-	2.6941 d 2
198AU	811.9	15	(12-)	2.272 d 16
199AU	0.0		3/2+	3.139 d 7
200AU	0		(1-)	48.4 m 3
200AU	1010	40	12-	18.7 h 5
201AU	0		3/2+	26.0 m 8
203AU	0		3/2+	60 s 6
204AU	0		(2-)	39.8 s 9
205AU	0.0		(3/2+)	32.0 s 14
206AU	0		5+, 6+	40 s 15
207AU	0			> 300 ns
209AU	0		(3/2+)	> 300 ns
210AU	0			> 300 ns
184HG	0.0		0+	30.87 s 26

Levels Results

185HG	0.0	1/2-	49.1 s 10
186HG	0.0	0+	1.38 m 10
187HG	0.0	3/2(-)	1.9 m 3
187HG	0.0+X	13/2(+)	2.4 m 3
188HG	0.0	0+	3.25 m 15
189HG	0.0	3/2-	7.6 m 2
189HG	0.0+X	13/2+	8.6 m 2
190HG	0.0	0+	20.0 m 5
191HG	0.0	3/2(-)	49 m 10
191HG	0.0+X	13/2(+)	50.8 m 15
192HG	0.0	0+	4.85 h 20
193HG	0.0	3/2(-)	3.80 h 15
193HG	140.76 5	13/2(+)	11.8 h 2
194HG	0.0	0+	447 y 52
195HG	0.0	1/2-	10.53 h 3
195HG	176.07 4	13/2+	41.6 h 8
196HG	0.0	0+	STABLE
197HG	0.0	1/2-	64.14 h 5
197HG	298.93 8	13/2+	23.8 h 1
198HG	0.0	0+	STABLE
199HG	0.0	1/2-	STABLE
199HG	532.48 10	13/2+	42.67 m 9
200HG	0.0	0+	STABLE
201HG	0	3/2-	STABLE
202HG	0	0+	STABLE
203HG	0	5/2-	46.610 d 10
204HG	0	0+	STABLE
205HG	0.0	1/2-	5.14 m 9
206HG	0.0	0+	8.32 m 7
207HG	0	(9/2+)	2.9 m 2
208HG	0	0+	41 m +5-4
209HG	0	(9/2+)	36 s +7-4
211HG	0		> 300 ns
216HG	0	0+	> 300 ns
187TL	0.0	(1/2+)	≈ 51 s
188TL	0.0	(2-)	71 s 2
188TL	35 31	7+	71.5 s 15
189TL	0.0	(1/2+)	2.3 m 2
189TL	281 7	(9/2-)	1.4 m 1
190TL	0.0	2-	2.6 m 3
190TL	83 10	7+	3.6 m 3
190TL	151.3 3	1+, 2+, 3+	> 34 ns
190TL	325.2 5	(9-)	> 1 μs
191TL	0.0+X	9/2(-)	5.22 m 16
192TL	0.0	(2-)	9.6 m 4
192TL	138 45	(7+)	10.8 m 2
193TL	0.0	1/2(+)	21.6 m 8
193TL	365.2+X	(9/2-)	2.11 m 15
194TL	0.0	2-	33.0 m 5
194TL	260 14	(7+)	32.8 m 2
194TL	3687.1 6	(19-)	> 1.18 ps
194TL	3887.1 6	(20-)	> 0.83 ps
194TL	4819.2 7	(23-)	> 1.04 ps
195TL	0.0	1/2+	1.16 h 5
196TL	0.0	2-	1.84 h 3
196TL	394.2 5	(7+)	1.41 h 2
197TL	0.0	1/2+	2.84 h 4
198TL	0.0	2-	5.3 h 5
198TL	543.6 4	7+	1.87 h 3
199TL	0.0	1/2+	7.42 h 8

Levels Results

200TL	0.0	2-	26.1 h 1
201TL	0	1/2+	3.0420 d 16
202TL	0	2-	12.31 d 8
203TL	0.0	1/2+	STABLE
204TL	0	2-	3.783 y 12
205TL	0.0	1/2+	STABLE
206TL	0.0	0-	4.202 m 11
206TL	2643.10 18	(12-)	3.74 m 3
207TL	0	1/2+	4.77 m 3
208TL	0.0	5+	3.053 m 4
208TL	328.04 5	5+	> 0.1 ps
209TL	0.0	1/2+	2.162 m 7
210TL	0.0	(5+)	1.30 m 3
211TL	0		88 s +46-29
212TL	0.0	(5+)	30.9 s 80
216TL	0		> 300 ns
189PB	0.0	(3/2-)	39 s 8
189PB	40 4	(13/2+)	50 s 3
190PB	0.0	0+	71 s 1
191PB	0.0	(3/2-)	1.33 m 8
191PB	0.0+X	(13/2+)	2.18 m 8
192PB	0.0	0+	3.5 m 1
193PB	0.0+X	(13/2+)	5.8 m 2
194PB	0.0	0+	10.7 m 6
194PB	6535.47 21	(18+)	> 0.5 ps
195PB	0.0	3/2-	≈ 15 m
195PB	202.9 7	13/2+	15.0 m 12
196PB	0.0	0+	37 m 3
197PB	0.0	3/2-	8.1 m 17
197PB	319.31 11	13/2+	42.9 m 9
198PB	0.0	0+	2.4 h 1
198PB	4573.2 6	14-	> 2.8 ps
198PB	4702.5 6	(16+)	> 5.5 ps
198PB	4837.2 6	15-	> 2.8 ps
199PB	0	3/2-	90 m 10
199PB	424.8+X 2	(13/2+)	12.2 m 3
200PB	0.0	0+	21.5 h 4
201PB	0	5/2-	9.33 h 5
201PB	629.1 3	13/2+	60.8 s 18
202PB	0	0+	$52.5 \times 10^{+3}$ y 28
202PB	2169.85 8	9-	3.54 h 2
203PB	0	5/2-	51.92 h 3
204PB	0.0	0+	$\geq 1.4 \times 10^{+17}$ y
204PB	2185.88 8	9-	66.93 m 10
205PB	0.0	5/2-	$1.70 \times 10^{+7}$ y 9
206PB	0.0	0+	STABLE
207PB	0.0	1/2-	STABLE
207PB	3175.674 13	9/2(+)	> 402 fs
207PB	3225.542 20	11/2+	> 333 fs
207PB	3384.579 13	9/2+	> 284 fs
207PB	3429.843 18	(9/2+)	> 437 fs
207PB	3476.364 13	9/2(+)	> 388 fs
207PB	3509.849 16	11/2+	> 208 fs
207PB	3620.496 21	11/2+	> 243 fs
207PB	3650.09 3	9/2-, 11/2-	> 312 fs
207PB	3673.82 3	9/2, 11/2	> 263 fs
207PB	3711.40 3	(7/2+)	> 118 fs
207PB	3726.094 22	(5/2+, 7/2+)	> 201 fs
207PB	3828.997 18	9/2+, 11/2+	> 111 fs

Levels Results

207PB	3869.37 5	9/2+, 11/2+, 13/2+	> 104 fs
207PB	3903.33 10	(13/2+)	> 17 fs
207PB	4064.02 8	(9/2+, 11/2+, 13/2+)	> 37 fs
208PB	0	0+	STABLE
208PB	3919.966 13	6-	> 690 fs
208PB	3946.578 14	4-	> 430 fs
208PB	3995.438 13	4-	> 690 fs
208PB	4037.443 14	7-	> 690 fs
208PB	4125.347 12	5-	> 490 fs
208PB	4206.277 14	6-	> 690 fs
208PB	4261.871 13	4-	> 520 fs
208PB	4383.285 17	6-	> 690 fs
208PB	4423.647 15	6+	> 110 fs
208PB	4680.266 22	7-	> 690 fs
208PB	4711.817 21	4-	> 340 fs
208PB	4860.78 6	8+	> 22 fs
208PB	4867.91 4	7+	> 97 fs
208PB	4868.35 5	0+	> 312 fs
208PB	4962.428 21	4(-), 5(+)	> 440 fs
208PB	5085.470 24	7-	> 229 fs
208PB	5092.99 3	8+	> 690 fs
208PB	5193.428 25	5+	> 319 fs
208PB	5195.37 10	7+	> 690 fs
208PB	5241.1 3	0+	> 690 fs
208PB	5280.47 4	0-	> 319 fs
208PB	5317.041 18	(3)+	> 690 fs
208PB	5599.48 6	0-	> 159 fs
208PB	5799.41 9		> 690 fs
208PB	6101.1 10	(5+)	> 690 fs
209PB	0	9/2+	3.234 h 7
210PB	0.0	0+	22.20 y 22
211PB	0.0	9/2+	36.1 m 2
212PB	0.0	0+	10.622 h 7
213PB	0.0	(9/2+)	10.2 m 3
214PB	0.0	0+	27.06 m 7
215PB	0	(9/2+)	147 s 12
216PB	0	0+	> 300 ns
220PB	0	0+	> 300 ns
188BI	65 29		> 5 μ s
192BI	0.0	(3+)	34.6 s 9
192BI	147 34	(10-)	39.6 s 4
193BI	0.0	(9/2-)	63.6 s 30
194BI	0.0	(3+)	95 s 3
194BI	145 50	(6+, 7+)	125 s 2
194BI	161 8	(10-)	115 s 4
195BI	0.0	[9/2-]	183 s 4
195BI	401 7	[1/2+]	87 s 1
196BI	0.0	(3+)	308 s 12
196BI	271 5	(10-)	240 s 3
197BI	0	(9/2-)	9.33 m 50
197BI	500 <i>Syst.</i>	(1/2+)	5.04 m 16
198BI	0.0	(2+, 3+)	10.3 m 3
198BI	0.0+X	7+	11.6 m 3
199BI	0.0	9/2-	27 m 1
199BI	667 4	(1/2+)	24.70 m 15
200BI	0	7+	36.4 m 5
200BI	0+X	(2+)	31 m 2
201BI	0	9/2-	103 m 3
201BI	846.35 18	1/2+	58.5 m 11
202BI	0	5+	1.71 h 4

Levels Results

203BI	0	9/2-	11.76 h 5
204BI	0	6+	11.22 h 10
205BI	0.0	9/2-	14.91 d 7
206BI	0.0	6+	6.243 d 3
207BI	0	9/2-	31.55 y 4
208BI	0.0	5+	$3.68 \times 10^{+5}$ y 4
208BI	650.57 10	7+	> 1.0 ns
208BI	936.27 6	3+	> 1.7 ps
208BI	1539.39 7	2+, 3+	> 1.2 ps
210BI	0.0	1-	5.012 d 5
210BI	271.31 11	9-	$3.04 \times 10^{+6}$ y 6
211BI	0.0	9/2-	2.14 m 2
212BI	0.0	1(-)	60.55 m 6
212BI	239 30	(8-, 9-)	25.0 m 2
212BI	1478 38	(18-)	7.0 m 3
213BI	0.0	9/2-	45.59 m 6
214BI	0.0	1-	19.71 m 2
214BI	539 30		> 93 s
215BI	0.0	(9/2-)	7.6 m 2
215BI	1347.50+X	(25/2:29/2) (-)	36.9 s 6
216BI	0.0	(6-, 7-)	2.25 m 5
216BI	X	(3)	6.6 m 21
217BI	0.0	(9/2-)	98.5 s 13
218BI	0	(6-, 7-, 8-)	33 s 1
220BI	0		> 300 ns
221BI	0		> 300 ns
223BI	0		> 300 ns
197PO	0.0	(3/2-)	84 s 16
197PO	204 Syst.	(13/2+)	32 s 2
198PO	0.0	0+	1.760 m 24
199PO	0.0	(3/2-)	5.47 m 15
199PO	310 2	(13/2+)	4.17 m 5
200PO	0.0	0+	11.54 m 9
201PO	0	3/2-	15.50 m 22
201PO	423.41 22	13/2+	8.96 m 12
202PO	0	0+	44.6 m 4
203PO	0	5/2-	36.7 m 5
203PO	641.64 14	13/2+	45 s 2
203PO	2158.3 6		> 200 ns
204PO	0	0+	3.519 h 12
205PO	0.0	5/2-	1.74 h 8
206PO	0.0	0+	8.8 d 1
207PO	0	5/2-	5.80 h 2
208PO	0.0	0+	2.898 y 2
209PO	0.0	1/2-	124 y 3
210PO	0.0	0+	138.376 d 2
212PO	2930 10	(18+)	45.1 s 6
218PO	0.0	0+	3.097 m 12
219PO	0	(9/2+)	620 s 59
220PO	0	0+	> 300 ns
221PO	0		112 s +58-28
222PO	0	0+	2 m +12-1
223PO	0		> 300 ns
225PO	0		> 300 ns
226PO	0	0+	> 300 ns
227PO	0		> 300 ns
200AT	0	(3+)	43.1 s 8
200AT	112.9 29	(7+)	47 s 1
201AT	0.0	9/2-	87.6 s 13
202AT	0	(2+, 3+)	184 s 1

Levels Results

202AT	0+X	(7+)	182 s 2
203AT	0	9/2-	7.4 m 2
204AT	0	7+	9.12 m 11
205AT	0.0	9/2-	26.9 m 8
206AT	0.0	(5)+	30.6 m 8
207AT	0	9/2-	1.81 h 3
208AT	0.0	6+	1.63 h 3
209AT	0	9/2-	5.42 h 5
210AT	0.0	(5)+	8.1 h 4
211AT	0.0	9/2-	7.214 h 7
219AT	0.0	(9/2-)	56 s 4
220AT	0.0	3	3.71 m 4
221AT	0.0		2.3 m 2
222AT	0		54 s 10
223AT	0.0		50 s 7
224AT	0		1.3 m +23-4
225AT	0		> 300 ns
226AT	0		> 300 ns
227AT	0		> 300 ns
228AT	0		> 300 ns
229AT	0		> 300 ns
203RN	0.0	3/2-	44.2 s 16
204RN	0	0+	74.5 s 14
205RN	0.0	5/2-	170 s 4
205RN	657.1 5	(13/2+)	> 10 s
206RN	0.0	0+	5.67 m 17
207RN	0	5/2-	9.25 m 17
208RN	0.0	0+	24.35 m 14
209RN	0.0	5/2-	28.8 m 10
210RN	0.0	0+	2.4 h 1
211RN	0.0	1/2-	14.6 h 2
212RN	0.0	0+	23.9 m 12
220RN	0	0+	55.6 s 1
221RN	0.0	7/2+	25 m 2
222RN	0.0	0+	3.8222 d 9
223RN	0.0	7/2	24.3 m 4
224RN	0	0+	107 m 3
225RN	0.0	7/2-	4.66 m 4
226RN	0.0	0+	7.4 m 1
228RN	0.0	0+	65 s 2
208FR	0.0	7+	59.1 s 3
209FR	0.0	9/2-	50.5 s 7
210FR	0.0	6+	3.18 m 6
211FR	0.0	9/2-	3.10 m 2
212FR	0.0	5+	20.0 m 6
213FR	0.0	9/2-	34.17 s 6
221FR	0.0	5/2-	4.9 m 2
222FR	0	2-	14.2 m 3
223FR	0.0	3/2(-)	22.00 m 7
224FR	0.0	1(-)	3.33 m 10
225FR	0.0	3/2-	3.95 m 14
226FR	0.0	1-	49 s 1
227FR	0.0	1/2+	2.47 m 3
228FR	0.0	2-	38 s 1
229FR	0.0		50.2 s 20
213RA	0.0	1/2-	2.73 m 5
221RA	0.0	5/2+	28 s 2
222RA	0.0	0+	33.6 s 4
223RA	0.0	3/2+	11.43 d 5
223RA	130.141 18	9/2+	> 0.3 ns

Levels Results

224RA	0	0+	3.6316 d 23
225RA	0.0	1/2+	14.9 d 2
226RA	0.0	0+	1600 y 7
227RA	0.0	3/2+	42.2 m 5
228RA	0	0+	5.75 y 3
229RA	0.0	5/2+	4.0 m 2
230RA	0.0	0+	93 m 2
231RA	0.0	(5/2+)	103.9 s 14
232RA	0	0+	4.2 m 8
233RA	0	(1/2+)	30 s 5
234RA	0.0	0+	30 s 10
222AC	0+X		64 s 3
223AC	0.0	(5/2-)	2.10 m 5
224AC	0	(0-)	2.78 h 16
225AC	0.0	(3/2-)	9.920 d 3
226AC	0.0	(1)	29.37 h 12
227AC	0.0	3/2-	21.772 y 3
228AC	0	3+	6.15 h 2
229AC	0.0	(3/2+)	62.7 m 5
230AC	0.0	(1+)	122 s 3
231AC	0.0	1/2+	7.5 m 1
232AC	0	(1+)	119 s 5
233AC	0	(1/2+)	143 s 10
234AC	0.0		44 s 7
235AC	0		62 s 4
236AC	0		1.2 m +58-5
225TH	0.0	(3/2+)	8.75 m 4
226TH	0.0	0+	30.57 m 10
227TH	0.0	(1/2+)	18.697 d 7
228TH	0.0	0+	1.9116 y 16
229TH	0.0	5/2+	7880 y 120
230TH	0.0	0+	$7.54 \times 10^{+4}$ y 3
230TH	1009.601 14	2+	≥ 0.8 ps
231TH	0.0	5/2+	25.57 h 8
232TH	0	0+	1.40×10^{10} y 1
233TH	0.0	1/2+	21.83 m 4
234TH	0.0	0+	24.10 d 3
235TH	0	(1/2+)	7.2 m 1
236TH	0	0+	37.5 m 2
237TH	0.0	(5/2+)	4.8 m 5
238TH	0.0	0+	9.4 m 20
211PA	0		> 300 ns
226PA	0.0		1.8 m 2
227PA	0.0	(5/2-)	38.3 m 3
228PA	0.0	3+	22 h 1
229PA	0.0	(5/2+)	1.50 d 5
230PA	0.0	2-	17.4 d 5
231PA	0.0	3/2-	32570 y 130
232PA	0	(2-)	1.32 d 2
233PA	0.0	3/2-	26.975 d 13
234PA	0.0	4+	6.70 h 5
234PA	73.92+X	(0-)	1.159 m 11
235PA	0	(3/2-)	24.4 m 2
236PA	0	1(+)	9.1 m 1
237PA	0.0	(1/2+)	8.7 m 2
238PA	0.0	(3-)	2.28 m 10
239PA	0.0	(3/2)	1.8 h 5
227U	0.0	(3/2+)	1.1 m 1
228U	0.0	0+	9.1 m 2
229U	0.0	(3/2+)	58 m 3

Levels Results

230U	0.0	0+	20.23 d 2
231U	0.0	(5/2-)	4.2 d 1
232U	0	0+	68.9 y 4
233U	0.0	5/2+	1.5919×10^5 y 15
234U	0.0	0+	$2.455 \times 10^{+5}$ y 6
234U	851.74 3	2+	≥ 1.74 ps
235U	0.0	7/2-	$7.04 \times 10^{+8}$ y 1
235U	0.0760 4	1/2+	≈ 26 m
236U	0.0	0+	2.342×10^7 y 4
237U	0.0	1/2+	6.752 d 2
238U	0.0	0+	4.468×10^9 y 6
239U	0	5/2+	23.45 m 2
239U	0.0+X	(5/2+)	> 0.25 μ s
240U	0	0+	14.1 h 1
242U	0.0	0+	16.8 m 5
228NP	0.0		61.4 s 14
229NP	0.0		4.0 m 2
230NP	0.0		4.6 m 3
231NP	0	(5/2-)	48.8 m 2
232NP	0	(4+)	14.7 m 3
233NP	0.0	(5/2+)	36.2 m 1
234NP	0.0	(0+)	4.4 d 1
235NP	0	5/2+	396.1 d 12
236NP	0	6(-)	$1.55 \times 10^{+5}$ y 1
236NP	57 51	1(-)	22.5 h 4
237NP	0.0	5/2+	$2.144 \times 10^{+6}$ y 7
238NP	0.0	2+	2.099 d 2
239NP	0	5/2+	2.356 d 3
240NP	0.0	(5+)	61.9 m 2
240NP	0+X	(1+)	7.22 m 2
241NP	0.0	5/2+	13.9 m 2
242NP	0.0	(1+)	2.2 m 2
242NP	0.0+X	(6+)	5.5 m 1
243NP	0.0	(5/2)	1.85 m 15
244NP	0.0	(7-)	2.29 m 16
229PU	0.0	(3/2+)	90 s +71-27
230PU	0.0		102 s 10
231PU	0	(3/2+)	8.6 m 5
232PU	0	0+	33.8 m 7
233PU	0		20.9 m 4
234PU	0.0	0+	8.8 h 1
235PU	0	(5/2+)	25.3 m 5
236PU	0	0+	2.858 y 8
237PU	0.0	7/2-	45.64 d 4
238PU	0.0	0+	87.7 y 1
239PU	0	1/2+	24110 y 30
240PU	0.0	0+	6561 y 7
241PU	0.0	5/2+	14.329 y 29
242PU	0.0	0+	$3.73 \times 10^{+5}$ y 2
243PU	0.0	7/2+	4.956 h 3
244PU	0.0	0+	$8.13 \times 10^{+7}$ y 3
245PU	0	(9/2-)	10.54 h 6
246PU	0	0+	10.84 d 2
247PU	0.0	(1/2+)	2.27 d 23
230AM	0.0		31 s
232AM	0		79 s 2
233AM	0		3.2 m 8
234AM	0.0		2.32 m 8

Levels Results

235AM	0.0	5/2-	10.3 m 6
236AM	0.0	5-	3.6 m 2
236AM	X	(1-)	2.9 m 2
237AM	0.0	5/2(-)	73.6 m 8
238AM	0.0	1+	98 m 2
239AM	0	(5/2)-	11.9 h 1
240AM	0	(3-)	50.8 h 3
241AM	0.0	5/2-	432.6 y 6
242AM	0.0	1-	16.01 h 2
242AM	48.603 9	5-	141 y 2
243AM	0.0	5/2-	7364 y 22
244AM	0.0	(6-)	10.1 h 1
244AM	89.5 16	1+	26 m
245AM	0.0	5/2+	2.05 h 1
246AM	0.0	(7-)	39 m 3
246AM	0.0+X	2(-)	25.0 m 2
247AM	0.0	(5/2)	23.0 m 13
233CM	0		23 s +13-6
234CM	0.0	0+	51 s 12
236CM	0	0+	6.8 m 8
238CM	0.0	0+	2.2 h 4
239CM	0	(7/2-)	2.7 h 8
240CM	0	0+	27 d 1
241CM	0.0	1/2+	32.8 d 2
242CM	0.0	0+	162.88 d 8
243CM	0.0	5/2+	29.1 y 1
244CM	0.0	0+	18.11 y 3
244CM	0+X		> 500 ns
245CM	0.0	7/2+	8423 y 74
246CM	0	0+	4706 y 40
247CM	0.0	9/2-	$1.56 \times 10^{+7}$ y 5
248CM	0.0	0+	$3.48 \times 10^{+5}$ y 6
249CM	0	1/2+	64.15 m 3
250CM	0.0	0+	$\approx 8.3 \times 10^{+3}$ y
251CM	0	(1/2+)	16.8 m 2
252CM	0.0	0+	< 2 d
233BK	0		21 s +48-17
234BK	0.0		1.4×10^2 s +14-5
236BK	0	(4+, 6-)	22 s +13-6
238BK	0.0		144 s 5
240BK	0		4.8 m 8
241BK	0.0	(7/2+)	4.6 m 4
242BK	0.0		7.0 m 13
243BK	0.0	(3/2-)	4.6 h 2
244BK	0.0	(4-)	5.02 h 3
245BK	0.0	(3/2-)	4.96 d 3
246BK	0.0+X	2(-)	1.80 d 2
247BK	0.0	3/2-	1380 y 250
248BK	0.0+Z	(6+, 8-)	> 9 y
248BK	0.0+X	1 (-)	23.7 h 2
249BK	0.0	7/2+	330 d 4
250BK	0.0	2-	3.212 h 5
251BK	0	(3/2-)	56 m 1
253BK	X		> 10 m
239CF	0		39 s +37-12
240CF	0	0+	0.96 m 15
241CF	0.0	(7/2-)	3.78 m 70
242CF	0.0	0+	3.5 m 2
243CF	0.0	(1/2+)	10.7 m 5

Levels Results

244CF	0.0	0+	19.4 m 6
245CF	0.0	1/2+	45.0 m 14
246CF	0	0+	35.7 h 5
247CF	0.0	(7/2+)	3.11 h 3
248CF	0	0+	333.5 d 28
249CF	0	9/2-	351 y 2
250CF	0.0	0+	13.08 y 9
251CF	0	1/2+	898 y 44
252CF	0.0	0+	2.647 y 3
253CF	0.0	(7/2+)	17.81 d 8
254CF	0	0+	60.5 d 2
255CF	0	(7/2+)	85 m 18
256CF	0.0	0+	12.3 m 12
244ES	0.0		37 s 4
245ES	0.0	(3/2-)	66.6 s 60
246ES	0.0+X		7.5 m 5
247ES	0+X	(7/2+)	4.55 m 26
248ES	0.0	(2-, 0+)	24 m 3
249ES	0	7/2+	102.2 m 6
250ES	0.0	(6+)	8.6 h 1
250ES	0.0+X	1(-)	2.22 h 5
251ES	0	3/2-	33 h 1
252ES	0.0	(5-)	471.7 d 19
253ES	0	7/2+	20.47 d 3
254ES	0.0	(7+)	275.7 d 5
254ES	84.2 25	2+	39.3 h 2
255ES	0	(7/2+)	39.8 d 12
256ES	0.0	(1+, 0-)	25.4 m 24
256ES	0.0+X	(8+)	7.6 h
257ES	0.0		7.7 d 2
247FM	0.0	(7/2+)	31 s 1
248FM	0	0+	34.5 s 12
249FM	0	(7/2+)	2.6 m 7
250FM	0.0	0+	30 m 3
251FM	0	(9/2-)	5.30 h 8
252FM	0.0	0+	25.39 h 4
253FM	0.0	1/2+	3.00 d 12
254FM	0.0	0+	3.240 h 2
255FM	0.0	7/2+	20.07 h 7
256FM	0.0	0+	157.1 m 13
257FM	0.0	(9/2+)	100.5 d 2
250MD	0.0		52 s 6
251MD	0	7/2-	4.27 m 11
252MD	0.0		2.3 m 8
253MD	0	(7/2-)	6 m +12-3
254MD	0		10 m 3
254MD	0+X		28 m 8
255MD	0	(7/2-)	27 m 2
256MD	0.0	(1-)	77.7 m 18
257MD	0.0	(7/2-)	5.52 h 5
258MD	0	(8-)	51.50 d 29
258MD	0+X	(1-)	57.0 m 9
259MD	0		1.60 h 6
260MD	0.0		31.8 d 5
253NO	0	(9/2-)	1.62 m 15
254NO	0.0	0+	51.2 s 4
255NO	0.0	(1/2+)	3.52 m 21
259NO	0	(9/2+)	58 m 5
255LR	0.0	[1/2-]	31.1 s 11
255LR	878.8+Y 10	(19/2-)	≥ 10 ns

Levels Results

260LR	0.0			180	s	30
261LR	0.0			39	m	12
262LR	0.0			≈	4	h
264LR	0			4.9	h	+21-13
266LR	0			11	h	+21-5
261RF	X			68	s	+3-3
263RF	0.0			10	m	2
265RF	0			1.0	m	+12-3
267RF	0			1.3	h	+23-5
258DB	0+Y			20	s	10
262DB	0.0			35	s	5
263DB	0.0			27	s	+10-7
266DB	0			0.4	h	+17-2
267DB	0			79	m	+94-28
268DB	0			28	h	3
270DB	0			15	h	+10-4
267SG	0			84	s	+55-24
269SG	0			1.3×10 ²	s	+10-4
271SG	0			96	s	+88-31
270BH	0			1.0	m	+49-5
274BH	0			44	s	+34-13
278BH	0			19	m	+55-5
278HS	0	0+		19	m	+55-5
282MT	0			1.1	m	+53-5
282DS	0	0+		1.1	m	+53-5
282RG	0			100	s	+70-30
286RG	0			11	m	+51-5
285CN	0			33	s	+10-6
286CN	0	0+		11	m	+51-5
290FL	0	0+		19	s	+91-9

Gamma Information

E _{level} (keV)	Jπ	T _{1/2}	E _γ (keV)	I _γ	γ mult.	γ mix. ratio	γ
19.28E3 7		> 0.75 MeV					
19.28E3 7		> 0.75 MeV					
2371.5 10	9/2+	> 2.4 ps	2371.5	100	E2+ (M3)	0.002	50
3067.4 16	(3/2) +	≥ 0.7 ps	1595.7	100			
3153.5 17	5/2+	≥ 0.7 ps	3057.5	92 4			
3153.5 17	5/2+	≥ 0.7 ps	3153.5	8 4			
6500.0 9	11/2+	> 2.4 eV	1852	45	M1		
6500.0 9	11/2+	> 2.4 eV	3720.2	55	M1		
4635 4	13/2+	> 0.7 ps	1840	100	E2		
3884.6 4	(5/2+, 9/2+)	> 0.5 ps	2186	8.6 25			
3884.6 4	(5/2+, 9/2+)	> 0.5 ps	457	7 4			
3884.6 4	(5/2+, 9/2+)	> 0.5 ps	1944	100 21			
3884.6 4	(5/2+, 9/2+)	> 0.5 ps	775	7 4			
1058 2	0+	> 7 ns	1058		[E0]		
1058 2	0+	> 7 ns	172	100	[E2]		
4192 4	3/2+	> 0.5 keV	3740 4	100	M1+E2	+0.18	1
4192 4	3/2+	> 0.5 keV	3247 4	100	M1+E2	-0.07	3
3977.91 9	0-	> 1.0 ps	1906.19	1.5 3	[E1]		
3977.91 9	0-	> 1.0 ps	2919.99	59.7 16	[E1]		
3977.91 9	0-	> 1.0 ps	2127.20	100.0 16	[E1]		
5785.7 16	(0,1,2) +	≥ 0.8 ps	3844.0 15	100			
2228.6 4	2 (-)	> 2 ps	1799.7 6	100 16	[E1]		
2228.6 4	2 (-)	> 2 ps	620.6 4	68 14	(E1 (+M2))	+0.07	16
2228.6 4	2 (-)	> 2 ps	2229 1	59 14	[E1]		
2320.6 4	3 (-)	> 7 ps	1891.4 5	100	(E1 (+M2))	+0.07	14

Levels Results

6237.2 5	7 (+)	> 6.9 ps	3931.7 9	13 8	[E3]	
6237.2 5	7 (+)	> 6.9 ps	842.5 6	48 10	(E1(+M2))	+0.05 14
6237.2 5	7 (+)	> 6.9 ps	2884.3 6	90 13	M2(+E3)	+0.11 18
6237.2 5	7 (+)	> 6.9 ps	1607.5 4	100 13	(E1(+M2))	+0.05 9
7920.1 10		> 0.35 ps	1726 1	49 6	D,E2	
7920.1 10		> 0.35 ps	1683 1	100 6	D,E2	
3667.5 10		> 1 ps	1456.6 11	100		
5391.4 9	2+	> 0.2 ps	5391.0	100 9		
5391.4 9	2+	> 0.2 ps	816.2 4	18 9		
2825.3 11	4+	> 0.14 ps	1533.2 10	100		
146.36 3	3+	31.99 m 3	146.36 3	100	[M3]	0.1
2721.1 2	2-	> 1.4 ps	563.2	15 9		
2721.1 2	2-	> 1.4 ps	2574.6	39.1 9		
2721.1 2	2-	> 1.4 ps	1490.7	4.5 4		
2721.1 2	2-	> 1.4 ps	2260.7 5	100.0 15	E1	
2721.1 2	2-	> 1.4 ps	833.8	4 4		
2721.1 2	2-	> 1.4 ps	2721.0	32.9 13		
2721.1 2	2-	> 1.4 ps	2055.5	16 9		
5540.8 11	3-	> 0.7 ps	1996.2	56 9	D,E2	
5540.8 11	3-	> 0.7 ps	5079.9	<3		
5540.8 11	3-	> 0.7 ps	1941.0	100 8	D,E2	
5540.8 11	3-	> 0.7 ps	5540.8	<4		
5540.8 11	3-	> 0.7 ps	4875.4	<6		
5540.8 11	3-	> 0.7 ps	5394.4	<5		
4810.9 3	7/2	> 0.35 ps	1708	<2.0		
4810.9 3	7/2	> 0.35 ps	1069.8	21 3	D(+Q)	+0.03 2
4810.9 3	7/2	> 0.35 ps	3084.2	<1.0		
4810.9 3	7/2	> 0.35 ps	1184.1	<1.0		
4810.9 3	7/2	> 0.35 ps	1724.7	<1.0		
4810.9 3	7/2	> 0.35 ps	1103.1	<1.0		
4810.9 3	7/2	> 0.35 ps	4820 15	100		
6046.17 8	11/2+	> 1.4 ps	2036.1 1	100 7	E1+M2	+0.18 4
6046.17 8	11/2+	> 1.4 ps	1125.4 4	8 2		
6046.17 8	11/2+	> 1.4 ps	1500.1 3	9 2		
6046.17 8	11/2+	> 1.4 ps	451.2 1	15.7 12		
6046.17 8	11/2+	> 1.4 ps	1142.4 2	6.4 17		
396.42 7	1/2+	> 1.4 ps	396.42 7	100		
1301.21 15	(5/2+)	> 2.1 ps	904.8 5	6.6 21	[E2]	
1301.21 15	(5/2+)	> 2.1 ps	1301.1 3	100.0 21		
1785.86 18	(7/2-)	> 1.4 ps	484.64 10	100	[E1]	
2423.7 3	(9/2+)	> 1.2 ps	637.7 3	100 5	[E1]	
2423.7 3	(9/2+)	> 1.2 ps	1122.9 4	36 5	[E2]	
2423.7 3	(9/2+)	> 1.2 ps	678.8	13 5		
2834.3 3	(11/2+)	> 1.2 ps	410.65 13	100 4		
2834.3 3	(11/2+)	> 1.2 ps	1089.2 4	15 4	[E2]	
3873 3	0+	> 187 fs	585	<43		
3873 3	0+	> 187 fs	1782 3	100	[E2]	
4329.1 7	(0,1,2)+	> 485 fs	4328.8	<10		
4329.1 7	(0,1,2)+	> 485 fs	2358.6	100		
5974.8 2	(0+:3-)	> 1.7 ps	1494.8	<3		
5974.8 2	(0+:3-)	> 1.7 ps	3807.1	100 5		
5974.8 2	(0+:3-)	> 1.7 ps	1409.3	30 3		
5974.8 2	(0+:3-)	> 1.7 ps	2038.2	17.3 22		
5974.8 2	(0+:3-)	> 1.7 ps	817.5	8.8 13		
5974.8 2	(0+:3-)	> 1.7 ps	5974.3	<5		
6249.9 3	2+	> 111 fs	2439.6	<6		
6249.9 3	2+	> 111 fs	1092.6	10.6 22		
6249.9 3	2+	> 111 fs	4082.2	49 8		
6249.9 3	2+	> 111 fs	2313.3	<10		
6249.9 3	2+	> 111 fs	900.5	16.9 26		

Levels Results

6249.9 3	2+	> 111 fs	2872.9	20 6			
6249.9 3	2+	> 111 fs	1684.4	100 8			
6249.9 3	2+	> 111 fs	6249.3	<6			
6476.6 19	(0+:3-)	> 0.17 ps	2666.3	<11			
6476.6 19	(0+:3-)	> 0.17 ps	1911.0	100 3			
6476.6 19	(0+:3-)	> 0.17 ps	4308.9	43 3			
6476.6 19	(0+:3-)	> 0.17 ps	2540.0	21 3			
6476.6 19	(0+:3-)	> 0.17 ps	1599.6	<3			
6476.6 19	(0+:3-)	> 0.17 ps	3099.6	<15			
6476.6 19	(0+:3-)	> 0.17 ps	1996.6	<10			
6476.6 19	(0+:3-)	> 0.17 ps	6476.0	<13			
7289.6 8	(3-,4+)	> 55 fs	3479.2	100 8			
7289.6 8	(3-,4+)	> 55 fs	X				
7508.12 22	7-	≥ 42 fs	1850 1	8 3	[E2]		
7508.12 22	7-	≥ 42 fs	1100 1	2.2 11			
7508.12 22	7-	≥ 42 fs	2922.6 6	100 6	E2		
7508.12 22	7-	≥ 42 fs	437.8 2	8.8 11	(M1+E2)		
2358.284 11	1/2+	> 0.42 ps	840.775 25	5.50 13			
2358.284 11	1/2+	> 0.42 ps	1091.056 8	100.0 20			
2829.934 17	1/2+	> 0.69 ps	1312.360 20	87.0 21			
2829.934 17	1/2+	> 0.69 ps	396.46 4	15.3 6	[E1]	2.6	
2829.934 17	1/2+	> 0.69 ps	1562.704 25	100.0 23			
4230 2	4 (-)	> 2.8 ps	1338 2	100 4	D (+Q)	+0.6 +4-8	
4230 2	4 (-)	> 2.8 ps	547 2	89 4	D+Q	-10 +3-9	
3096.1 5	4+	> 3.5 ps	1887.8 4	100	E2 (+M3)	+0.07 8	
3439.4 11	(6+)	> 27.7 ps	693	100	[E2]		
2285.24 12	(5/2+,7/2+)	> 243 fs	2285.2	100	(Q+O)	+0.10 5	
2285.24 12	(5/2+,7/2+)	> 243 fs	914.4	<4			
2285.24 12	(5/2+,7/2+)	> 243 fs	905.0	<4			
3703.7 4	(1+,2,3+)	> 0.76 ps	1302.6 3				
2494.91 3	9/2+	> 3.1 ps	817.659 9	100 3	M1+E2	+0.38 2	9.1
2494.91 3	9/2+	> 3.1 ps	796.926 20	39.5 21	E2		1.4
2494.91 3	9/2+	> 3.1 ps	1201.303 17	67.1 23	E1+M2	+0.06 2	8.1
1206.91 6	(5/2,7/2)+	> 4.8 ps	1206.95 9	100			
2508.34 10	(11/2+)	> 5 ps	998.81 13	69 4	Q		
2508.34 10	(11/2+)	> 5 ps	460.5 6	100 3	D+Q	-0.2	
1438.3 4	(7/2+)	> 0.35 ps	575.5 2	100			
2104.2 5	(7/2-)	> 0.35 ps	1241.4 4	100			
3882 2	(3/2-,5/2,7/2+)	> 1.7 ps	3882				
3882 2	(3/2-,5/2,7/2+)	> 1.7 ps	1086				
3300.0 4	0+	> 0.9 ps	1775.3	8 4	E2		
3300.0 4	0+	> 0.9 ps	875.8	100 1	E2		
3913.80 8	5-	> 2 ps	869.47 15	100 5	(E1)		
3913.80 8	5-	> 2 ps	628.71 11	92.7 32	(E1+M2)	-0.30 14	
3913.80 8	5-	> 2 ps	202.1 2	4.8	[M1,E2]		0.0
1554.37 8	(11/2-)	> 2.1 ps	1554.34 8	100	(E2 (+M3))	0.00 6	0.0
2877.99 12	(15/2-)	> 2.1 ps	1323.60 9	100	(E2 (+M3))	0.00 6	8.2
2423.1 8	0+	> 4.5 ps	1077.5 20	100			
2013.53 10	3/2-	> 6 ps	2013.50 14	100	(E2)		0.0
2578.33 10	3/2+	> 12 ps	564.79 8	100.0 19	(E1)		0.0
2578.33 10	3/2+	> 12 ps	2578.26 12	42.2 17	(M2)		0.0
2599.53 11	1/2+	> 1 ps	2599.40 20	1.31 9	(E3)		0.0
2599.53 11	1/2+	> 1 ps	586.01 8	100.0 18	(E1)		0.0
2269.14 4	2+	> 70 fs	1658	42 6	D (+Q)	-0.06 6	
2269.14 4	2+	> 70 fs	682.808 23	100 70	(D)		
2269.14 4	2+	> 70 fs	2269	38 8			
2269.14 4	2+	> 70 fs	379	12 6			
2433.62 18	4+	> 0.14 ps	922.7 3	100 9	(M1+E2)	+0.40 9	
2433.62 18	4+	> 0.14 ps	942.9 2	92 8	(M1+E2)	-0.48 11	
2910.3 7	4+	> 0.8 ps	1419.0 12		D+Q	-0.14 7	

Levels Results

2995.53	7	4+	> 0.14 ps	606.47	25 13		
2995.53	7	4+	> 0.14 ps	772.6 1	100 5	(M1)	
3224.01	20	(5+)	> 0.21 ps	834.9 4	83 9	[E2]	
3224.01	20	(5+)	> 0.21 ps	1713	55 6		
3224.01	20	(5+)	> 0.21 ps	408.6 2	100 9	[M1]	
3224.01	20	(5+)	> 0.21 ps	1000.8 3	67 6	[E2]	
3321.36	10	(1+,2,3+)	> 0.14 ps	2710.22	100 20		
3321.36	10	(1+,2,3+)	> 0.14 ps	1830.9	100 20		
3718.6	5	(5+)	> 70 fs	723.0 3			
3718.6	5	(5+)	> 70 fs	3102.9			
2383.1	4	3/2(+)	> 0.31 ps	1527.6	45	(M1+E2)	+0.49 7
2383.1	4	3/2(+)	> 0.31 ps	731.9	100		
3142.05	12	13/2+	> 0.55 ps	1209.8 1	100 3	E2	
3142.05	12	13/2+	> 0.55 ps	588.2 1	9.4 3	(M1+E2)	
271.241	10	6+	58.61 h 10	271.241 10	100	E4	0.1
531.42	14	3(-)	> 3.8 ps	296.77 20	100 4	(M1 (+E2))	-0.02 3
531.42	14	3(-)	> 3.8 ps	531.01 21	80 4	(E1 (+M2))	-0.04 3
531.42	14	3(-)	> 3.8 ps	181.6 10	4 2	[E1]	0.0
531.42	14	3(-)	> 3.8 ps	464.8 5	20 4	(E2)	
2106.3	3	15/2-	> 1.4 ps	869.57 13	100	E2	0.0
2148.2	5		> 2 ps	1001.2 5	100	D (+Q)	+0.10 13
3991.0	9	1/2+	≥ 0.7 ns	1620.0 15			
3991.0	9	1/2+	≥ 0.7 ns	1762			
1854.2	12	0+	> 0.14 ps	298.2	100	[E2]	
2676.6	8	4+	> 1.4 ps	1120.6	100	[E2]	
1904.4	8	0+	> 0.5 ps	821.3 8	100	[E2]	
1565.4	7	1/2+	> 2.8 ps	1528 1	14.9 23	(E1)	0.0
1565.4	7	1/2+	> 2.8 ps	1236 1	100.0 23	D,E2	
2364.9	2	1/2+	> 1.53 ps	540.0	100		
2682.30	5	11/2(-)	> 2.10 ps	276	1.4		
2682.30	5	11/2(-)	> 2.10 ps	1430.22 4	100	D (+Q)	0.00 2
2682.30	5	11/2(-)	> 2.10 ps	1238 2	43	D,Q	
4564.8	3	8(+)	> 3.5 ps	1056.2 10	11.1 22	[E2]	0.0
4564.8	3	8(+)	> 3.5 ps	1231.6 5	100.0 22	(E2)	8.9
4956.6	4	(4+,5,6-)	> 1.0 ps	1173	100 16		
4956.6	4	(4+,5,6-)	> 1.0 ps	1624	45 7		
4956.6	4	(4+,5,6-)	> 1.0 ps	910	36 7		
4956.6	4	(4+,5,6-)	> 1.0 ps	1448	45 7		
6103.2	7	10(+),8	> 1.4 ps	1538.8 10	100		
7427.9	7	9,7	> 0.7 ps	2230	21 5		
7427.9	7	9,7	> 0.7 ps	1393	100 9		
7427.9	7	9,7	> 0.7 ps	2863	30 8		
4172.003	19	3+	> 0.83 ps	2618.33 7	100 6		
4172.003	19	3+	> 0.83 ps	1497.054 25	48 3		
1402.0	4	3+	> 0.8 ps	1013.4 3	100 5	M1 (+E2)	0.00 20
1402.0	4	3+	> 0.8 ps	1081.6 5	24 9		
1402.0	4	3+	> 0.8 ps	493 1	21 7		
1402.0	4	3+	> 0.8 ps	1045.5 5	28 12		
1677.4	4	3+	> 0.32 ps	1321.7 3	41 16		
1677.4	4	3+	> 0.32 ps	275.3 5	41 11		
1677.4	4	3+	> 0.32 ps	1288.6 5	45 16		
1677.4	4	3+	> 0.32 ps	375.5 4	100 16		
1752.5	7	3+,4+,5+	> 1.3 ps	1432			
1752.5	7	3+,4+,5+	> 1.3 ps	1397			
1752.5	7	3+,4+,5+	> 1.3 ps	1526			
1812.8	15	(2,3)+	> 2.9 ps	1424 2	84 44		
1812.8	15	(2,3)+	> 2.9 ps	1493 2	<220		
1812.8	15	(2,3)+	> 2.9 ps	509			
1812.8	15	(2,3)+	> 2.9 ps	1457 2	100 44		
2546.4	6	1/2+	> 0.7 ps	1619 1	100	E1	

Levels Results

3385.587	23	13/2-	> 0.87 ps	1572.39	7	1.15	25
3385.587	23	13/2-	> 0.87 ps	685.94	3	3.1	6
3385.587	23	13/2-	> 0.87 ps	1776.38	4	100	20
1266.0	9	(7/2,9/2)-	> 1.1 ps	1138.3	16	44	13
1266.0	9	(7/2,9/2)-	> 1.1 ps	175.0	14	14	3
1266.0	9	(7/2,9/2)-	> 1.1 ps	1265.7	16	100	13
1653	4	(9/2,11/2)-	> 0.45 ps	1652.5	34	100	
4085.2	6	(17/2,19/2-)	> 0.7 ps	1664.8	5	100	
2297.9	3	(7)	> 0.35 ps	1083.0	3	73	
2297.9	3	(7)	> 0.35 ps	469.11	20	100	D
4876.0	4	(6-)	> 0.7 ps	1342.6	3	100	17
4876.0	4	(6-)	> 0.7 ps	811.9	3	37	7
1703.2	4	1/2-	> 3.8 ps	1703.2	5	100	E2
1981.8	3	3/2+	> 1.39 ps	1709.5	5	16	3
1981.8	3	3/2+	> 1.39 ps	278.1	7	26	3
1981.8	3	3/2+	> 1.39 ps	1981.3	5	100	(M2+E3)
1981.8	3	3/2+	> 1.39 ps	240		2.4	6
2978.7	5	(3/2+)	> 0.69 ps	997		27	5
2978.7	5	(3/2+)	> 0.69 ps	401		59	11
2978.7	5	(3/2+)	> 0.69 ps	2979			(E1)
2978.7	5	(3/2+)	> 0.69 ps	810		40	7
2978.7	5	(3/2+)	> 0.69 ps	1237		25	5
2978.7	5	(3/2+)	> 0.69 ps	547		100	11
3892.2	4	13/2+	> 6.9 ps	364.4	4	15.6	E1
3892.2	4	13/2+	> 6.9 ps	1395	1	15.6	(E1)
3892.2	4	13/2+	> 6.9 ps	702.2	5	9.6	(E1)
3892.2	4	13/2+	> 6.9 ps	2332	1	100	(E1)
3785.71	12	(4)+	> 2.8 ps	626.56	27	7	3
3785.71	12	(4)+	> 2.8 ps	563.68	19	42	2
3785.71	12	(4)+	> 2.8 ps	1961.53	11	100	10
3870.4	5		> 28 fs	3034.6	13		
3870.4	5		> 28 fs	1250.8	5		
3987.42	21		> 42 fs	594.0	2	100	
2681.8	10	(4+)	≥ 0.7 ps	359	13	31	9
2681.8	10	(4+)	≥ 0.7 ps	1680	15	100	12
2681.8	10	(4+)	≥ 0.7 ps	850.1	10	39	9
3251.84	17	6+	≥ 0.7 ps	1175.1	1	100	E2
4447.79	20	(7-)	≥ 0.7 ps	1196.3	2	100	D
4447.79	20	(7-)	≥ 0.7 ps	606.5	1	37	5
1917.11	12	5+	> 0.7 ps	773.6	1	100	5
1917.11	12	5+	> 0.7 ps	1258.0	1	22	5
1917.11	12	5+	> 0.7 ps	886.7	1	35	5
8277.4	18	(15+)	> 2 ps	1340			
1817.1	2	3/2(-)	> 0.7 ps	1817.1	2		(M1)
1817.1	2	3/2(-)	> 0.7 ps	1579.8	3		(E2)
2275.9	2	1/2+	> 1.2 fs	451.3	2	18	
2275.9	2	1/2+	> 1.2 fs	2275.9	2	3	
2275.9	2	1/2+	> 1.2 fs	316.8	6	28	4
2275.9	2	1/2+	> 1.2 fs	458.8	2	100	(E1)
2275.9	2	1/2+	> 1.2 fs	135.5	2	23	
2701.6	5	3/2-	> 0.5 ps	884.5	5	50	
2701.6	5	3/2-	> 0.5 ps	561.2	5	11	
2701.6	5	3/2-	> 0.5 ps	877.0	5	18	
2701.6	5	3/2-	> 0.5 ps	425.7	5	11	
2701.6	5	3/2-	> 0.5 ps	1562			
2701.6	5	3/2-	> 0.5 ps	742.5	5	75	9
2701.6	5	3/2-	> 0.5 ps	391.6	5	100	M1+E2
9471.3	9	25/2-,27/2	> 0.69 ps	1386.1	5	25	4
9471.3	9	25/2-,27/2	> 0.69 ps	2294.7	10	100	6
9471.3	9	25/2-,27/2	> 0.69 ps	1579.9	6	6.1	20

Levels Results

377.749 5	2+	21.1 m 2	377.748 5	100	[E4]	0.0
4679.5 5	9-	> 0.78 ps	1772	5.7 3		
4679.5 5	9-	> 0.78 ps	3809	1.67 22		
4679.5 5	9-	> 0.78 ps	1077	100 6		
4679.5 5	9-	> 0.78 ps	2394	9.2 6		
4679.5 5	9-	> 0.78 ps	788	12.2 3	D+Q	-50 68
4679.5 5	9-	> 0.78 ps	4679	10.0 4		
3007.13 18	(5/2)+	> 0.84 ps	2629.3	72		
3007.13 18	(5/2)+	> 0.84 ps	1717.5	100	D+Q	-0.7 -7+4
3007.13 18	(5/2)+	> 0.84 ps	3007.3	28		
1460.6 6	(4+,5+)	> 0.28 ps	387.5 5	100		
2109.8 4	1+	> 416 fs	718.7 4	100 6		
2109.8 4	1+	> 416 fs	2054.9 4	56 6		
2579.90 16		> 0.7 ps	1343.15 21	72 17		
2579.90 16		> 0.7 ps	306.65 28	100 22		
2579.90 16		> 0.7 ps	1095.63 58	30 15		
2579.90 16		> 0.7 ps	966.37 28	15 7		
1227.5 11	-	> 0.35 ps	1144.29 17	100 1		
1227.5 11	-	> 0.35 ps	152.35 16	9 1		
71.77 5	4+	65.4 s 5	71.78 5	100	M3	14.0
6958.0 4	12+	45.9 s 6	597.1 3	100 33	E4	0.0
6958.0 4	12+	45.9 s 6	465.0 3	75 25	E4	0.0
3040.4 3	19/2-	2.54 m 2	3040.6 5	0.06 1	[E6]	
3040.4 3	19/2-	2.54 m 2	1712.6 3	1.3 1	[M5]	
3040.4 3	19/2-	2.54 m 2	701.1 1	100	[E4]	
2561.3 4	0+	≥ 1.4 ps	2561.3		E0	
2561.3 4	0+	≥ 1.4 ps	1153.1 3	100	E2	
3294.8 4	4+	≥ 2.1 ps	756.6 3	100 5	M1+E2	0.15 5
3294.8 4	4+	≥ 2.1 ps	1887 1	19 5	(E2)	
4030.9 5	5+	≥ 0.7 ps	736.4 4	100 7	(M1+E2)	+0.14 +10-7
4030.9 5	5+	≥ 0.7 ps	1494 1	20 4	M1+E2	-1.2 +12-3
3072.0 4	11/2-	> 0.7 ps	532.3 2	100	M1+E2	+0.25 +5-6
3072.0 4	11/2-	> 0.7 ps	259.2 5	20	M1 (+E2)	-0.03 +6-3
3456.9 5	13/2-	> 0.6 ps	917.8 4	100	M1 (+E2)	0.00 4
5476.8 23		> 0.7 ps	1816.0 20	100		
2220.2	(7/2-)	> 0.3 ps	1853.3	10		
2220.2	(7/2-)	> 0.3 ps	2205.8	100		
2220.2	(7/2-)	> 0.3 ps	2083.8	94	(M1+E2)	
2455.55 15	9/2+	> 1.4 ps	1448.52 20	100	(E1+M2)	0.00 4
2257.95 21	0+	> 2.5 ps	1447.31 25	100	[E2]	
3558.88 23	(15/2+)	> 0.4 ps	1246.7 1	100		
3958.20 18	6 (-)	> 0.4 ps	441.9 1	47 2		
3958.20 18	6 (-)	> 0.4 ps	437.9 3	100 3		
3958.20 18	6 (-)	> 0.4 ps	1843 5	1.3 7		
3958.20 18	6 (-)	> 0.4 ps	375.9 1	27 1		
4296.49 18	7 (-)	> 0.4 ps	780.6 10	99 4		
4296.49 18	7 (-)	> 0.4 ps	338.2 1	100 4		
4296.49 18	7 (-)	> 0.4 ps	714.4 1	53 2		
4296.49 18	7 (-)	> 0.4 ps	364.5 1	37 1		
3942.09 11	1/2-,3/2-	> 120 fs	1776.1 3	22 4		
3942.09 11	1/2-,3/2-	> 120 fs	1376.2 3	100 6		
3942.09 11	1/2-,3/2-	> 120 fs	1003.0 4	9 4		
829.61 5	4+	> 1.7 ps	671.18 8	100 2	M1+E2	-0.09 12
829.61 5	4+	> 1.7 ps	253.05 11	2.0 3		
829.61 5	4+	> 1.7 ps	829.60 8	34 2	M1+E2	-0.43 28
2282.63 12	7+	> 1.25 ps	1706.1 1	100	E2	
24.95 6	5+	9.10 h 9	24.889 21	100	M3	2.5
1044.26 10	(3+)	> 1.2 ps	1044.18 14	100 5		
1044.26 10	(3+)	> 1.2 ps	932.5 2	22 3		
1044.26 10	(3+)	> 1.2 ps	670.1 5			

Levels Results

2153.62	20	≥ 14 fs	694.02	14	100	D (+Q)		
2204.78	19	5/2 (-)	≥ 0.69 ps	1014.3	61 13			
2204.78	19	5/2 (-)	≥ 0.69 ps	722.77	7 100 9			
2204.78	19	5/2 (-)	≥ 0.69 ps	913.05	20 72 9	D+Q	+0.25	10
2204.78	19	5/2 (-)	≥ 0.69 ps	2203.51	22 19 11			
2204.78	19	5/2 (-)	≥ 0.69 ps	770.5	26 6			
58.59	1	2+	10.467 m	6 58.603	7 100	M3+ (E4)	<0.02	47.3
995.05	13	3/2-	> 10 ps	994.8	2 100			
642		(8-)	> 100 μ s	252				
3923.6	13	4+	> 0.7 ps	1224.5	2 100 5	E2		
3269.1	8	(2)	> 57 fs	3269.1	8			
3273.7	7	(2)	> 50 fs	3273.7	7			
3450.9	5		> 11 fs	3450.9	5			
3943.6	12		> 24 fs	3943.6	12			
5359.3	16	(2)	> 29 fs	5359.3	16			
5452.2	4	1	> 13 fs	5452.2	4			
5528.0	4	(1)	> 7 fs	5528.0	4			
2284.80	4	0+	> 1.5 ps	952.4	2 100			
2284.80	4	0+	> 1.5 ps	2284.87		E0		
3871.050	22	2+	> 3.0 ps	1712.30	9 91 2			
3871.050	22	2+	> 3.0 ps	747.33	3 100 2			
3871.050	22	2+	> 3.0 ps	3870.94	7 43.5 15			
3871.050	22	2+	> 3.0 ps	1244.93	22 2.6 5			
3871.050	22	2+	> 3.0 ps	677.17	5 16.7 4			
3871.050	22	2+	> 3.0 ps	2538.53	4 55 1			
3871.050	22	2+	> 3.0 ps	751.9	4 3.2 7			
4077.99	5	1+,2+	> 12 fs	2745.47	6 100 3			
4077.99	5	1+,2+	> 12 fs	1919.28	7 55 3			
4077.99	5	1+,2+	> 12 fs	4077.6	9 9 2			
4077.99	5	1+,2+	> 12 fs	1451.88	16 14 2			
2129.0	3	11/2-	> 2 ps	1113.8	3 100	E2		
3426.34	20	13/2-	> 0.7 ps	1297.5	5 14.5 15	M1+E2	-2.6	4
3426.34	20	13/2-	> 0.7 ps	1618.7	4 35 5	E2		
3426.34	20	13/2-	> 0.7 ps	1438.52	14 100 4	E2		
4019.36	21	15/2+	> 1.4 ps	720.5	6 127 12	Q		
4019.36	21	15/2+	> 1.4 ps	593.00	13 100 4	E1		
4019.36	21	15/2+	> 1.4 ps	584.0	2 39 4	M1+E2	+0.63	10
2890.63	20	0+	> 3.1 ps	1717.5	3 100	E2		
4011.0	15		> 0.90 ps	2837.9	15 100			
3748.99	6	2+	> 0.5 ps	1473	20			
3748.99	6	2+	> 0.5 ps	3748.77	8 29.6 15			
3748.99	6	2+	> 0.5 ps	2403.25	7 100 9	E2+M1	+1.23	10
1427.85	25	2+	> 0.66 ps	1225.1	1.7 5	[E2]		
1427.85	25	2+	> 0.66 ps	984.2	8.5 41	(M1+E2)	-0.8	+2-15
1427.85	25	2+	> 0.66 ps	1427.8	3 100	[M1+E2]		
1427.85	25	2+	> 0.66 ps	376.6	3.4 19			
1549.5	3	(4+)	> 0.34 ps	1105.8	3 100	(M1+E2)	-0.77	5
1647.41	18	(3+)	> 0.90 ps	220	<4.3			
1647.41	18	(3+)	> 0.90 ps	1203.5	27 8	(M1+E2)	+0.53	13
1647.41	18	(3+)	> 0.90 ps	1647.4	2 100 8	(E2 (+M3))	-0.06	+16-27
1647.41	18	(3+)	> 0.90 ps	596	<5			
1647.41	18	(3+)	> 0.90 ps	1445	<19			
914.2	4	5/2-	> 1.1 ps	422.6	2 0.7 2			
914.2	4	5/2-	> 1.1 ps	913.90	12 100 3	M1+E2	-0.21	2
1732.58	5	7/2-	> 1.4 ps	422.0	2 44.4 26	M1 (+E2)	+0.08	7
1732.58	5	7/2-	> 1.4 ps	1732.54	7 100 3	E2		
1732.58	5	7/2-	> 1.4 ps	338.6	2 9.9 8	M1+E2	-1.2	+9-5
1732.58	5	7/2-	> 1.4 ps	762.5	1 19.8 16	M1+E2	+0.50	4
2627.12	9	11/2-	> 350 fs	1316.8	1 100 3	E2		
2627.12	9	11/2-	> 350 fs	331.6	4 2.7 3			

Levels Results

2627.12	9	11/2-	> 350 fs	290.4	2	1.7	1			
2720.34	9	9/2+	> 2.8 ps	777.2	3	2.5	7			
2720.34	9	9/2+	> 2.8 ps	1409.1	3	100	3	E1		
2720.34	9	9/2+	> 2.8 ps	320.9	2	2.2	5			
2720.34	9	9/2+	> 2.8 ps	987.6	2	68	9	E1		
2720.34	9	9/2+	> 2.8 ps	109.5	2	8.3	13			
426.18	6	3+	> 0.16 ps	385.28	7	100		(M1+E2)	-0.12	2
548.31	5	1+	> 0.17 ps	304.88	9	1.9	1	[M1]		0.0
548.31	5	1+	> 0.17 ps	548.35	11	100	5	M1		
548.31	5	1+	> 0.17 ps	260.43	7	8.8	5	M1		0.0
548.31	5	1+	> 0.17 ps	507.60	10	97	5	M1		
2716.47	9	3/2-,5/2-	> 0.2 ps	624.3	3	33	8			
2716.47	9	3/2-,5/2-	> 0.2 ps	2716.9	4	31	4			
2716.47	9	3/2-,5/2-	> 0.2 ps	1389.66	8	100	13			
2716.47	9	3/2-,5/2-	> 0.2 ps	2046.4	8	9	3			
2716.47	9	3/2-,5/2-	> 0.2 ps	1169.6	3	18	4			
2716.47	9	3/2-,5/2-	> 0.2 ps	1754.9	5	10	2			
2808.10	8	3/2-	> 0.18 ps	2138.3	2	32				
2808.10	8	3/2-	> 0.18 ps	1481.0	2	47	15			
2808.10	8	3/2-	> 0.18 ps	2808.1	1	100	32			
2808.10	8	3/2-	> 0.18 ps	1261.0	2					
5413.0	3	(17/2+)	> 2 ps	836.3	2	100		D (+Q)	-0.25	+10-30
2094.34	14	(7/2)-	> 1 ps	978.8	3	100	3			
2094.34	14	(7/2)-	> 1 ps	612.7	8	24.7	20			
2094.34	14	(7/2)-	> 1 ps	2094.3	2	54	2			
2094.34	14	(7/2)-	> 1 ps	471.0	3	9.4	14			
2278.5	9	(7/2)-	> 0.84 fs	2279	3	2.3	8			
2278.5	9	(7/2)-	> 0.84 fs	1162.6	11	100	4			
721.26	8	6-	3.75 m	5	637.14	6	64.4	18	M4	0.0
721.26	8	6-	3.75 m	5	110.74	6	100	3	E3	3.6
101.1	3	3-	33 s	2	101.1	3	100		[M3]	5.3
5131.0	4	(6-)	> 0.7 ps	1087.8	3	100		(M1+E2)	-4.7	26
637.07	6	3/2-	> 0.53 ps	389.26	9	4.2	4	M1+E2	-0.05	+3-4
637.07	6	3/2-	> 0.53 ps	637.04	7	100.0	4	M1+E2	+0.04	2
650.10	4	5/2-	> 0.28 ps	650.14	6	100	1	M1+E2	-0.57	3
650.10	4	5/2-	> 0.28 ps	457.19	6	16	1	M1+E2	-0.08	+1-2
1023.22	5	3/2-	> 3.5 ps	396.10	10	17	1	(M1+E2)	+0.57	+6-3
1023.22	5	3/2-	> 3.5 ps	1023.22	8	70	3	(M1+E2)	+1.9	2
1023.22	5	3/2-	> 3.5 ps	373.06	8	100	5	(M1+E2)	-0.82	+4-5
1023.22	5	3/2-	> 3.5 ps	775.43	8	71	4	(M1+E2)	-0.91	+24-6
1063.34	7	7/2-	> 0.29 ps	413.2	1	28	2	D+Q		
1063.34	7	7/2-	> 0.29 ps	1063.2	2	100	2	E2 (+M3)	0.00	3
1063.34	7	7/2-	> 0.29 ps	870.25	10	24	1	D+Q		
1065.28	12	1/2-	> 0.22 ps	415.2	2	4.2	4			
1065.28	12	1/2-	> 0.22 ps	1065.2	2	100.0	7			
1065.28	12	1/2-	> 0.22 ps	872.4	2	5.3	4			
1206.38	7	7/2-	> 0.42 ps	1206.34	11	100	4	E2 (+M3)	-0.03	2
1206.38	7	7/2-	> 0.42 ps	1013.45	10	92	4	M1+E2	+4.7	+1-7
1206.38	7	7/2-	> 0.42 ps	556.3	2	4.3	4	D+Q	-1.24	9
1284.26	6	5/2-	> 0.40 ps	1091.40	8	100	3	D+Q		
1284.26	6	5/2-	> 0.40 ps	1036.34	8	48	2	E2 (+M3)	-0.01	1
1284.26	6	5/2-	> 0.40 ps	1284.21	15	11	1	M1+E2	-0.7	2
1284.26	6	5/2-	> 0.40 ps	634.5	5	13	1			
1909.26	14	1/2,3/2-	> 0.28 ps	1272.3	2	9.7	7	D+Q		
1909.26	14	1/2,3/2-	> 0.28 ps	1909.0	3	100	2	D+Q		
1909.26	14	1/2,3/2-	> 0.28 ps	1716.3	2	32	2	D+Q		
2050.42	19	9/2-	> 0.31 ps	844.1	4	64	5			
2050.42	19	9/2-	> 0.31 ps	987.1	2	100	5	D+Q		
2233.30	23	11/2-	> 1.4 ps	796.6	3	48	5			
2233.30	23	11/2-	> 1.4 ps	570.2	5	90	3	E2 (+M3)	-0.03	3

Levels Results

2233.30	23	11/2-	> 1.4 ps	1169.6	4	100	5				
2288.31	17	7/2-	> 0.21 ps	1081.9	3	47	3				
2288.31	17	7/2-	> 0.21 ps	1638.2	2	100	3	D+Q			
2377.86	24	9/2+	> 1.39 ps	674.9	2	100		(M1+E2)	-2.5	+5-12	
2911.9	5	9/2	> 1.4 ps	1705.5	5	100		D+Q	-1.7	1	
3552.3	3	4+	> 1.0 ps	3551	1	42	15				
3552.3	3	4+	> 1.0 ps	2559.7	4	85	6	[E2]			
3552.3	3	4+	> 1.0 ps	1246.7	4	100	6	M1+E2	-0.16	10	
3853.27	21	5+	> 2 ps	1547		0.5	5	[M1+E2]			
3853.27	21	5+	> 2 ps	1116.7	2	100.0	5	M1+E2	-1.00	15	
2053.8	3	13/2+	> 1.4 ps	988.2	3	100		E2 (+M3)	+0.01	2	
2135.2	8	9/2+	> 1.4 ps	1069	1						
2135.2	8	9/2+	> 1.4 ps	766	1						
2135.2	8	9/2+	> 1.4 ps	1271	1			E1+M2	-0.06	1	
3784.9	6	(17/2) +	≥ 0.28 ps	858.7	1	54	8				
3784.9	6	(17/2) +	≥ 0.28 ps	557.6	3	62	10				
3784.9	6	(17/2) +	≥ 0.28 ps	1732.7		100	12	E2+M3	-0.13	25	
2372.353	4	0+	> 0.21 ps	499.590	6	0.41	10	E2			0.0
2372.353	4	0+	> 0.21 ps	2372.375				E0			
2372.353	4	0+	> 0.21 ps	1333.112	5	100.0	4	E2			0.0
2765.56	7	4+	> 7 ps	314.6	1	36	2				
2765.56	7	4+	> 7 ps	1726.4	2	87	3	E2			0.0
2765.56	7	4+	> 7 ps	892.7	1	100	3	E2			0.0
5207.3	5	(8+)	> 6 ps	954.2	5	82	16	(E1)			0.0
5207.3	5	(8+)	> 6 ps	1025.8	5	100	11	(E2)			0.0
393.531	7	3/2-	> 2.4 ps	208.951	10	14.0	4	M1+E2	-0.034	21	0.0
393.531	7	3/2-	> 2.4 ps	393.529	10	28.0	1	M1+E2	0.043	10	
393.531	7	3/2-	> 2.4 ps	300.219	10	100	2	M1+E2	-0.18	1	
1807.89	14	9/2+	> 0.7 ps	1808.5	3	51					
1807.89	14	9/2+	> 0.7 ps	828.0	2	24					
1807.89	14	9/2+	> 0.7 ps	1203.5	2	100		M1+E2	+3	+2-1	
1807.89	14	9/2+	> 0.7 ps	992.8	5	22					
438.636	18	9/2+	13.756 h 18	438.634	18	100.0		M4			0.0
155.62	6	9/2+	4.140 h 15	155.62	6			[M4]			6.6
468.4	8	5/2-	≥ 20 ps	468.4	8	100		[E2]			0.0
1975.2	11		> 0.09 ps	1976.6	16	100					
2141.85	8	3/2-	≥ 0.25 ps	1974.82	16	100	7	(M1+E2)	≥+0.5		
2141.85	8	3/2-	≥ 0.25 ps	1230.90	15	45	4				
2141.85	8	3/2-	≥ 0.25 ps	1782.67	15	39	3				
2141.85	8	3/2-	≥ 0.25 ps	2141.85	20	28.2	22				
2141.85	8	3/2-	≥ 0.25 ps	1313.8	2	31.9	29				
2374.2	3	3/2+, 7/2+	> 0.69 ps	1463.3	3	100					
2457.3	10	11/2-	> 1.04 ps	1255	1	100					
2653.4	9	11/2-	> 1.04 ps	1451.3	4						
2653.4	9	11/2-	> 1.04 ps	1131.8	9			M1+E2	-3.7	1	
3191.1	9	11/2+	> 1.04 ps	1117.3	9	100	9	M1+E2	-1.60	7	
3191.1	9	11/2+	> 1.04 ps	328.4	4	9	9				
3525.3	4	9/2+, 13/2+	> 1.04 ps	493.5	4						
3525.3	4	9/2+, 13/2+	> 1.04 ps	1451	2						
3628.6	7	13/2+, 17/2+	> 0.48 ps	596.8	7	100					
1525.76	4	3/2-	≥ 0.55 ps	1207.21	6	100	7	(M1+E2)	+0.14	2	1.9
1525.76	4	3/2-	≥ 0.55 ps	951.54	9	10	4	(M1 (+E2))	+0.3	3	3.1
1525.76	4	3/2-	≥ 0.55 ps	1525.83	7	68	6	(M1+E2)	-0.38	7	2.0
1525.76	4	3/2-	≥ 0.55 ps	418.51	6	18.4	18	(M1 (+E2))	+0.05	7	0.0
1924.25	4	7/2-	≥ 0.62 ps	816.9	10	8.4	8				
1924.25	4	7/2-	≥ 0.62 ps	1349.99	5	76	8	(M1+E2)	-2.6	4	2.0
1924.25	4	7/2-	≥ 0.62 ps	587.64	8	69	7	(M1 (+E2))	0.00	7	8.6
1924.25	4	7/2-	≥ 0.62 ps	1052.10	4	100	8	(E2)			2.8
1924.25	4	7/2-	≥ 0.62 ps	1923.8	2	35	3				
1972.37	5	9/2 (+)	≥ 2.8 ps	635.71	5	100	7	(E1 (+M2))	-0.01	2	3.6

Levels Results

1972.37 5	9/2 (+)	≥ 2.8 ps	484.29 7	24 3	(E1 (+M2))	+0.00 2	6.9
1972.37 5	9/2 (+)	≥ 2.8 ps	1397.94 14	7.1 17	(M2 (+E3))	-0.06 12	3.0
2219.29 19		≥ 0.21 ps	2218.9 6	41			
2219.29 19		≥ 0.21 ps	1900.59 20	100			
2353.30 24	5/2	≥ 0.17 ps	1481.4 5	87	D (+Q)	-0.19 20	
2353.30 24	5/2	≥ 0.17 ps	2353.0 5	100	D (+Q)	-0.04 30	
2353.30 24	5/2	≥ 0.17 ps	1246.6 4	68	D (+Q)	+0.17 30	
2353.30 24	5/2	≥ 0.17 ps	1778.5 5	68			
2428.68 21	5/2-,7/2-	≥ 1.7 ps	1321.64 20	100	(M1+E2)		1.9
2668.28 6	11/2	≥ 1.7 ps	1331.63 6	100			
2668.28 6	11/2	≥ 1.7 ps	1180.04 10	46			
2717.99 5	13/2(+)	≥ 1.4 ps	745.61 2	100	(E2 (+M3))	-0.01 3	6.7
4528.10 14	(17/2,19/2)	≥ 2.8 ps	449.9 1	100			
1203.83 20	2+	> 220 fs	1203.8 2	100	M1+E2	-0.10 7	1.9
1244.61 10	2	> 500 fs	1244.6 1	100	D+Q	-0.05 4	
1476.004 8	5/2-	> 0.6 ps	1085.3		[E2]		
1476.004 8	5/2-	> 0.6 ps	565.852 12	17.53 21	[M1,E2]		0.0
1476.004 8	5/2-	> 0.6 ps	988.638 11	100.0 7	(M1+E2)	+0.17 5	
1476.004 8	5/2-	> 0.6 ps	368.499 22	5.82 28	[M1,E2]		0.0
1476.004 8	5/2-	> 0.6 ps	1475.969 14	46.6 7	(M1+E2)		
1476.004 8	5/2-	> 0.6 ps	964.670 10	39 7	[M1,E2]		
1699.21 8	1/2+	> 0.25 ps	1188.2 2	72 11	[E1]		
1699.21 8	1/2+	> 0.25 ps	1699.16 8	100 11	[E1]		
3736.80 12	5+	> 2 ps	1011.1 3	100 7	M1		0.0
3736.80 12	5+	> 2 ps	1563.5 1	41 4	M1+E2		0.0
3736.80 12	5+	> 2 ps	714.4 2	53 4	(M1)		0.0
3736.80 12	5+	> 2 ps	1241.5 2	9 4	E2		0.0
6502.11 16	10+	> 1.4 ps	969.8 2	100.0 16	E2		0.0
6502.11 16	10+	> 1.4 ps	1143.7 2	81.2 16	E2		0.0
6502.11 16	10+	> 1.4 ps	1009.8 2	27.9 16	E1+M2	-0.05 3	0.0
4999		> 0.35 ps	1303.0	100			
1613.29 8	7/2-	> 0.69 ps	1239.2 3	12 6			
1613.29 8	7/2-	> 0.69 ps	1613.2 1	80 2	M1+E2	-1.97 6	2.5
1613.29 8	7/2-	> 0.69 ps	680.4 4	13 1	M1+E2	+0.04 3	7.0
1613.29 8	7/2-	> 0.69 ps	1380.8 3	100 2	E2		2.2
1920.28 7	9/2-	> 1.04 ps	441.3 3	13 9			
1920.28 7	9/2-	> 1.04 ps	1058.2 3	100 2	M1+E2	-1.66 4	3.0
1920.28 7	9/2-	> 1.04 ps	724.5 2	18 4	E2		8.0
1920.28 7	9/2-	> 1.04 ps	1920.4 1	73 1	E2		3.6
4851.9 4	(8-)	> 3 ps	896.8 4	100	(M1+E2)	0.4 2	3.9
708.196 7	3/2-	> 10.7 ps	533.2 1	4.7 9	[M1,E2]		0.0
708.196 7	3/2-	> 10.7 ps	708.193 8	100.0 21	M1+E2		
1026.561 10	5/2-	> 1.2 ps	279.379 7	21.6 10	(M1+E2)		0.0
1026.561 10	5/2-	> 1.2 ps	1026.510 17	35.7 12	(E2)		
1026.561 10	5/2-	> 1.2 ps	526.642 4	100.0 22	(M1+E2)	-0.16 3	1.2
1026.561 10	5/2-	> 1.2 ps	195.22 15	1.0 5	[M1,E2]		0.0
1026.561 10	5/2-	> 1.2 ps	851.63 7	23.1 11	(M1+E2)	+0.8 7	
1026.561 10	5/2-	> 1.2 ps	501.5 6				
1026.561 10	5/2-	> 1.2 ps	828.0 1	0.4 2	[M2]		1.1
1212.511 8	5/2-	> 1.2 ps	622.71 4	4.04 25	[E1]		
1212.511 8	5/2-	> 1.2 ps	1037.530 15	62.5 15	(M1+E2)		
1212.511 8	5/2-	> 1.2 ps	504.27 5	47 14	(M1+E2)		0.0
1212.511 8	5/2-	> 1.2 ps	712.598 5	100 3	(M1+E2)		
1212.511 8	5/2-	> 1.2 ps	465.228 10	28.4 8	(M1+E2)		0.0
1212.511 8	5/2-	> 1.2 ps	1212.500 23	84.3 23	(E2)		
2064.93 3	3+	≥ 2 ps	600.94 3	100.0 15	M1+E2	$\approx +4.0$	0.0
2064.93 3	3+	≥ 2 ps	336.63 4	1.93 5			
2064.93 3	3+	≥ 2 ps	1230.83 4	26.2 6	D+Q	-2.0 +15-25	
3667.26 23	6+	> 2.1 ps	538.4 2	100	(E1)		0.0
3784.18 17	7-	≥ 2.8 ps	655.4 2	100	E2		0.0

Levels Results

3784.18	17	7-	≥ 2.8 ps	1011.9	2	100		
139.69	3	7/2+	47.7 s 5	77.86	15	0.008	4	
139.69	3	7/2+	47.7 s 5	139.68	3	100	E3	1.5
159.71	6	1/2-	53.7 s 6	159.66	10	100	(E3)	0.8
185.95	4	(7/2+)	39.0 s 10	186.02	7	100	[E3]	0.4
1394.69	12	(9/2)-	> 1.4 ps	1394.7	2	100 13	E2	
1394.69	12	(9/2)-	> 1.4 ps	470.1	3	9.4 16		
2469.92	12	(13/2-)	> 1.4 ps	671.7	2	37 8	(E2)	1.0
2469.92	12	(13/2-)	> 1.4 ps	1075.2	1	100 13	(E2)	
2469.92	12	(13/2-)	> 1.4 ps	756.1	2			
2820.1	3	(13/2-)	> 1.4 ps	758.1	4	28 6	(E2)	
2820.1	3	(13/2-)	> 1.4 ps	403.5	2	100 17	(M1)	0.0
2920.91	15	(15/2-)	> 1.4 ps	451.1	2	90 17	(M1)	1.9
2920.91	15	(15/2-)	> 1.4 ps	1206.4	4	133 34	(E1)	
2920.91	15	(15/2-)	> 1.4 ps	810.1	2	100 21	(E2)	
5822.9	4	(23/2-)	> 1.4 ps	1059.1	2	100	(M1+E2)	
25.71	4	3/2-	39.8 m 17	25.71	4	100	E3	90
1230.629	5	(5/2)-	> 0.21 ps	980.8	4	17 3		
1230.629	5	(5/2)-	> 0.21 ps	649.622	6	19.3 23		
1230.629	5	(5/2)-	> 0.21 ps	1230.5	2	4.2 10	[E2]	
1230.629	5	(5/2)-	> 0.21 ps	929.492	14	20 3	[E1]	
1230.629	5	(5/2)-	> 0.21 ps	991.627	19	100 5	E2+M1	+6.0 4
1230.629	5	(5/2)-	> 0.21 ps	791.160	7	50 4		
1364.273	4	(3/2-)	> 0.49 ps	177.289	13	2.8 4		
1364.273	4	(3/2-)	> 0.49 ps	1063.120	12	100 10		
1364.273	4	(3/2-)	> 0.49 ps	556.089	22	3.1 4		
1364.273	4	(3/2-)	> 0.49 ps	843.665	21	28 3		
1364.273	4	(3/2-)	> 0.49 ps	452.735	5	2.5 3		
1364.273	4	(3/2-)	> 0.49 ps	1115.24	24	10.7 20		
1364.273	4	(3/2-)	> 0.49 ps	684.169	9	12.5 7		
1607.702	8	3/2+,5/2+	> 0.42 ps	696.164	17	2.70 18		
1607.702	8	3/2+,5/2+	> 0.42 ps	1368.72	18	7.1 11		
1607.702	8	3/2+,5/2+	> 0.42 ps	1026.21	7	5.8 5		
1607.702	8	3/2+,5/2+	> 0.42 ps	799.54	5	3.2 3		
1607.702	8	3/2+,5/2+	> 0.42 ps	660.75	4	2.49 17		
1607.702	8	3/2+,5/2+	> 0.42 ps	1306.557	19	100 12		
1607.702	8	3/2+,5/2+	> 0.42 ps	927.578	12	10.6 13		
1607.702	8	3/2+,5/2+	> 0.42 ps	783.31	5	1.71 17		
1607.702	8	3/2+,5/2+	> 0.42 ps	1168.32	8	8.0 11		
1607.702	8	3/2+,5/2+	> 0.42 ps	811.58	4	1.77 14		
2949.19	16	4-	> 1.4 ps	1095.2	5	56	[E1]	
2949.19	16	4-	> 1.4 ps	441.7	2	100 11	M1+E2	-0.6 3
2949.19	16	4-	> 1.4 ps	1446.7	5	67	[E1]	
4121.2	3	8+	> 0.7 ps	536.2	2	56	M1+E2	-0.4 3
4121.2	3	8+	> 0.7 ps	290.5	2	100 11	M1	0.0
4121.2	3	8+	> 0.7 ps	1574	1	78 22	(E2)	
4214.1	4	(8-)	> 1.4 ps	1200	1	≈100	[E2]	
4214.1	4	(8-)	> 1.4 ps	664.0	3	80 10		
4786.9	5	(10+)	> 1.4 ps	955.9	5	100 9	(E2)	
4786.9	5	(10+)	> 1.4 ps	161.9	2	≈87		
4786.9	5	(10+)	> 1.4 ps	1202.2	6	<13	[E2]	
5783.8	7	(12+)	> 0.6 ps	1158.7	5	100	[E2]	
95.77	3	1/2-	3.92 m 1	95.73	3	100	E3	9.4
1312.0	3	(7/2-)	> 0.21 ps	947	1	22 2	M1+E2	-1.6 2
1312.0	3	(7/2-)	> 0.21 ps	784	1	<18	[E2]	
1312.0	3	(7/2-)	> 0.21 ps	1174				
1312.0	3	(7/2-)	> 0.21 ps	740.1	3	≈100		
103.00	6	7/2+	57.28 m 2	103.01	6	100	E3 (+M4)	<0.0057
2893.66	18	5-	> 131.7 ps	1158.3	8	10 3		6.7
2893.66	18	5-	> 131.7 ps	343.3	1	100 17		

Levels Results

105.86 8	9/2+	4.28 m 10	105.87 10	100	E3	6.3
85.843 4	5-	4.4205 h 8	48.786 5	100	M3	308
45.9492 10	2-	6.13 m 5	45.949 1	100	M3	400
3791.7 5		> 0.7 ps	653.9 7	20		
3791.7 5		> 0.7 ps	1814.1 6	100 20		
129.77 5	7/2+	50 s 3	129.76 10	100	E3	2.6
3635.3 4	(7+)	≥ 0.7 ps	1242 1	≈24		
3635.3 4	(7+)	≥ 0.7 ps	975.5 3	100 14		
4126.23 20	(8-)	≥ 1.7 ps	490.5 2	39 12		
4126.23 20	(8-)	≥ 1.7 ps	780.4 1	100 6		
4126.23 20	(8-)	≥ 1.7 ps	596.0 3	21 9		
2192.4 4	(15/2+)	> 2.1 ps	1216.2 4	40 6	D+Q	
2192.4 4	(15/2+)	> 2.1 ps	1258 1	≈100		
3595.14 9	(7-)	> 7 ps	767.1 3	16 5		
3595.14 9	(7-)	> 7 ps	557.2 3	5.3 26		
3595.14 9	(7-)	> 7 ps	98.5 1	28.9 26		
3595.14 9	(7-)	> 7 ps	675.5 1	100 8		
3595.14 9	(7-)	> 7 ps	427.5 2	66 5		
3595.14 9	(7-)	> 7 ps	584.0 2	84 8		
3595.14 9	(7-)	> 7 ps	246.5 2	15.0 13		
41.5575 7	1/2-	1.83 h 2	32.1516 5	100	E3	
304.871 20	1/2-	4.480 h 8	304.87 2	100	M4	0.5
111.19 22	4 (-)	5.74 m 3	64.4		(M3)	105.4
111.19 22	4 (-)	5.74 m 3	8.6		[E3]	4.8
86.31 7	9/2+	30.5 m 3	86.26 19	100	E3	17.7
2656.2 6	(17/2-)	> 1 ps	917.6 2		Q	
2656.2 6	(17/2-)	> 1 ps	361.8			
3496.8 10	(21/2-)	> 1 ps	736.9		[E2]	1.1
3496.8 10	(21/2-)	> 1 ps	840.5		(E2)	8.1
42.0780 20	9/2+	> 0.3 ms	42.078 2	100	M2	38.7
463.59 8	6-	20.26 m 4	463.62 10	100 3	E4	0.0
463.59 8	6-	20.26 m 4	215.61 10	95 3	M3+E4	1.18 4
3054.56 15	(21/2-)	> 69 ps	228.0 1	100	M1	0.0
5419.30 19	(27/2+)	> 7 ps	1283.9 1	96 11	(E2)	
5419.30 19	(27/2+)	> 7 ps	662.2 2	96 11	(M1)	
5419.30 19	(27/2+)	> 7 ps	107.0 1	100 11	(M1)	0.1
556.05 18	6-	1.017 m 3	556.07 18	100	(E4)	0.0
106.90 3	3-	258 s 4	106.92 15	100	M3	10.7
3580.81 25	(7-)	> 21 ps	1817.0 3	100 3	D	
3580.81 25	(7-)	> 21 ps	683.1 3	16.9 14		
3602.64 24	(7-)	> 21 ps	902.1 3	18.0 20	D+Q	
3602.64 24	(7-)	> 21 ps	1839.0 2	100 4	D	
1470.5 5	(13/2+)	≥ 0.76 ps	674.0 4		(E2)	1.5
1470.5 5	(13/2+)	≥ 0.76 ps	361.1			
1910.2 10	(15/2-)	≥ 1.2 ps	855	100	(E2)	8.4
238.79 5	1/2-	67.63 m 4	7.00 6		[E3]	2.0
238.79 5	1/2-	67.63 m 4	238.78 5		M4	1.9
767.34 8	5/2+	> 7 ps	767.40 19	100 10	(E2)	
767.34 8	5/2+	> 7 ps	535.61 18	95 10	(M1)	
1355.15 9	5/2+	≥ 0.13 ps	1123.34 14	100 4	[M1+E2]	
1355.15 9	5/2+	≥ 0.13 ps	611.9 2	61 4	[E1]	
1355.15 9	5/2+	≥ 0.13 ps	587.5 4	6.7 7	[M1+E2]	
1555.35 10	(5/2+, 7/2)	≥ 0.11 ps	787.95 14	100 6		
1555.35 10	(5/2+, 7/2)	≥ 0.11 ps	1555.3 3	13.8 11		
1555.35 10	(5/2+, 7/2)	≥ 0.11 ps	769.7 10	19 4		
1555.35 10	(5/2+, 7/2)	≥ 0.11 ps	1323.4 2	44 3		
3227.2 4	(21/2)-	> 2.8 ps	860.2 3	100	E2	
388.5287 23	1/2-	2.815 h 12	388.5276 23	100	M4	0.2
2169.43 2	1/2+	≥ 0.15 ps	1296.00 3	100 15	(E1)	2.6
2169.43 2	1/2+	≥ 0.15 ps	915.56 8	0.98 18	(M2)	1.6

Levels Results

3992.42	7	(0+)	> 0.48 ps	2156.0	2	15.3	5	[E2]	5.0		
3992.42	7	(0+)	> 0.48 ps	505.9	1	100.0	5	M1	0.0		
5498.7	11	(1,2+)	> 0.7 ps	5498.5	11	100					
5583.3	3		> 3.3 ps	3747.1	3	100					
5730.18	20	4+	> 0.2 ps	3894.0	2	100		[E2]	1.1		
5831.5	5	(1,2+)	> 1 ps	5831.3	5	100					
6052.2	3	(2+)	> 1.1 ps	6052.0	3	100					
6101.4	3	(1,2+)	> 0.8 ps	6101.2	3	100					
1032.00	4	1/2+	> 1 ps	1031.95	5	100		[E2]			
3388.1	7	15/2-	> 7 ps	1309.3	1	100		E2			
1482.69	17	(15/2+)	> 0.7 ps	799.5	3	100	4	[E2]	1.0		
1482.69	17	(15/2+)	> 0.7 ps	644.3	5	42.6	22	(M1)	1.6		
2594.5	6	(17/2-)	> 0.69 ps	811.9	4	100		[E2]	1.0		
62.04	10	3/2-	2.85 m	2	62.1	3	100	E3	90.8		
218.21	9	(8+)	47.4 m	4	10.22	8	100	(E3)	2.2		
380.82	7	9/2+	13.37 h	3	380.79	7	100	M4	0.2		
5759.59	24	(27/2-)	> 2.1 ps	1720.0	3	95	11	(E1+E2)	-0.14	10	5.2
5759.59	24	(27/2-)	> 2.1 ps	439.7	5	14	4	D(+Q)	+0.10	10	
5759.59	24	(27/2-)	> 2.1 ps	1195.6	3	100	7	(E2)			4.2
5759.59	24	(27/2-)	> 2.1 ps	264.3	5	12.3	18	(D)			
5759.59	24	(27/2-)	> 2.1 ps	531.5	5	9	4				
706.79	13	2-	> 10 ps	706.3	5	8	4	[E2]			
706.79	13	2-	> 10 ps	313.93	10	100	6				
4825.38	17	17/2+	≥ 3.5 ps	570.5	3	11	6				
4825.38	17	17/2+	≥ 3.5 ps	1931.9	3	14	4	(E2)			
4825.38	17	17/2+	≥ 3.5 ps	693.2	2	100	7	E1			
682.01	5	7+	3.19 h	6	681.8	6	0.35	3	E5	0.0	
682.01	5	7+	3.19 h	6	479.51	5	100.00	3	M4 (+E5)	<0.1	0.0
555.58	5	9/2+	49.71 m	4	555.57	5	100	M4			0.0
9912.6	5	(19-)	> 0.7 ps	1712.50	20	100	7	E2			3.9
9912.6	5	(19-)	> 0.7 ps	987.35	20	93	17	M1(+E2)	-0.11	16	6.9
587.82	10	1/2-	4.161 m	10	587.8	1	100	(M4)			0.0
1094.91	18	3/2-	> 0.05 ps	507.4	7	100		(M1)			
1451.23	18	5/2-	> 3.5 ps	356.4	4	56	3	(M1)			
1451.23	18	5/2-	> 3.5 ps	863.3	2	100	3	(E2)			
2085.9	8	(5/2)+	> 2 ps	991.7		100	6	(E1)			
2085.9	8	(5/2)+	> 2 ps	458		15	6				
3111.20	9	(19/2)+	> 2.8 ps	387.08	8	100	7	M1+E2	-0.11	6	
3111.20	9	(19/2)+	> 2.8 ps	115.89	7	31	10	(M1)			0.1
5381.0	4	(27/2)+	> 0.7 ps	643.4	3	100	5	M1			
5381.0	4	(27/2)+	> 0.7 ps	1804.1	7	18.9	11	[E2]			
3448.230	14	6+	> 1.46 ps	371.307	8	1.95	7	E2	0.0		
3448.230	14	6+	> 1.46 ps	1129.224	15	100.0	4	E1			2.4
2170.15	15	(11/2)-	> 5.5 ps	2170.04	18	100	10	(E3)			
2170.15	15	(11/2)-	> 5.5 ps	38.7	2	2.5	14	[E1]			1.7
2066.65	5	2+	> 0.76 ps	1132.12	5	100	3	(M1+E2)	-3.2	+5-4	
2066.65	5	2+	> 0.76 ps	571.28	15	0.60	20				
2066.65	5	2+	> 0.76 ps	2066.7	4	0.53	7	E2			
2066.65	5	2+	> 0.76 ps	219.07	15	0.64	10				
2743.55	7	4-	> 2.63 ps	1248.00	11	100	5	(E1(+M2))	+0.02	+6-4	
2743.55	7	4-	> 2.63 ps	257.57	10	90	5	(M1(+E2))	-0.01	+2-3	0.0
2743.55	7	4-	> 2.63 ps	403.83	9	57	3	(M1(+E2))	+0.04	2	
2743.55	7	4-	> 2.63 ps	344.8	3	4.0	16				
3082.36	3	4+	> 1.4 ps	856.6	2	6.3	13	[E2]			0.0
3082.36	3	4+	> 1.4 ps	1331.8	2	10.1	13				
3082.36	3	4+	> 1.4 ps	643.9	2	7.1	8				
3082.36	3	4+	> 1.4 ps	1185.19	3	100.0	13	E1(+M2)	+0.02	3	0.0
3082.36	3	4+	> 1.4 ps	224.8		10.3					
3150.28	3	3-	> 0.54 ps	1252.98	7	66	7	M1+E2	+1.7	3	0.0
3150.28	3	3-	> 0.54 ps	711.56	3	100	4	(E1+M2)	-0.07	4	0.0

Levels Results

3243.61	7		> 0.097 ps	574.74	6	100	25			
3243.61	7		> 0.097 ps	1018.3	2	100	25			
3448.72	8	(2+)	> 0.66 ps	1551.50	8	75	19			
3448.72	8	(2+)	> 0.66 ps	780.2	2	100	19			
3749.38	10	4+	> 0.26 ps	1852.2	1	100				
104.60	5	1/2-	60.86 d	22	104.62	5	100	M4		167.3
1790.63	9	(9/2-)	> 1.6 ps	1790.53	13	100.0	5	(E1+E2)	-0.15	15
1790.63	9	(9/2-)	> 1.6 ps	603.71	15		3.4	5		
1844.93	13	(5/2)-	> 1.5 ps	657.95	21	54	4			
1844.93	13	(5/2)-	> 1.5 ps	1740.35	15	100	4			
2120.87	15	(7/2-)	> 1.0 ps	808.4	3	21	4			
2120.87	15	(7/2-)	> 1.0 ps	2120.9	3	24	4			
2120.87	15	(7/2-)	> 1.0 ps	329.89	24	100	4			
2120.87	15	(7/2-)	> 1.0 ps	934.1	3	91	4			
30.77	2	1/2-	16.12 y	12	30.77	2	100	M4		1.6
810.32	9	5/2-	> 1.0 ps	779.53	22	100		(E2)		1.3
810.32	9	5/2-	> 1.0 ps	123.3	2	<1				
1082.68	5	9/2+	> 2.8 ps	1082.53	15	35	3	M1+E2	>1.8	6.0
1082.68	5	9/2+	> 2.8 ps	338.73	7	100.0	17	(E2+M1)	-0.09	2
1082.68	5	9/2+	> 2.8 ps	103.80	11	9	3			
1369.86	17	5/2-	> 0.55 ps	683.2	2	30	4	D+Q	-0.34	5
1369.86	17	5/2-	> 0.55 ps	559.4	2	100	4	D+Q	-0.32	7
1369.86	17	5/2-	> 0.55 ps	1338.9		14				
1395.42	13	(7/2-)	> 0.55 ps	708.6	2	9	4	[E2]		
1395.42	13	(7/2-)	> 0.55 ps	584.97	22	100	4	D+Q	-0.10	2
1588.06	17	3/2(-),5/2(-)	> 0.87 ps	901.2	2	100	8	(M1+E2)	-0.53	6
1588.06	17	3/2(-),5/2(-)	> 0.87 ps	777.8	2	18	8	(M1+E2)	-4.0	+13-35
2002.52	10	(11/2+)	> 0.55 ps	399.1	2	20	2			
2002.52	10	(11/2+)	> 0.55 ps	511.5	2	<2				
2002.52	10	(11/2+)	> 0.55 ps	1052.8	2	100	2	(M1+E2)	-0.63	7
2002.52	10	(11/2+)	> 0.55 ps	502.4	2	12	2	[E1]		
2002.52	10	(11/2+)	> 0.55 ps	1023.7	2	10	2	[E2]		
40.892	12	3+	6.263 m	4	40.90	5	100	M3		
235.69	2	1/2-	3.61 d	3	235.69	2	100	M4		2.7
743.35	3	1/2-	58.7 s	18	743.36	3	100	[M4]		0.0
365.27	8	1/2-	2.5 m	2	365.1		100	[M4]		0.3
653.01	9	1/2-	64.6 s	6	652.9	1	100	M4		0.0
2282.61	5	4+	> 3.4 ps	773.09	3	100		E2		
2519.53	21	0+	> 3.4 ps	1010.02	20	100		[E2]		
3368.68	7	(4+)	> 3.4 ps	1858.5	7	4.8	12	(E2)		
3368.68	7	(4+)	> 3.4 ps	361.65	11	27.5	21	D+Q	-0.44	15
3368.68	7	(4+)	> 3.4 ps	1085.88	11	23.2	21	(M1+E2)		
3368.68	7	(4+)	> 3.4 ps	305.06	3	100	5	D+Q		
3368.68	7	(4+)	> 3.4 ps	842.1	2	106	6			
3579.81	6	3-	> 0.21 ps	1297.22	9	87	5	(E1)		
3579.81	6	3-	> 0.21 ps	1052.88	8	100	5	(E2)		
3579.81	6	3-	> 0.21 ps	2070.21	9	≈33				
3621.06	7	(LE4)	> 0.21 ps	2111.53	6	100				
3688.77	7	1(-),2,3	> 0.69 ps	838.9	2	15.8	15			
3688.77	7	1(-),2,3	> 0.69 ps	2179.24	6	100	4	D(+Q)		
3814.58	8	2,3	> 0.48 ps	750.8						
3814.58	8	2,3	> 0.48 ps	964.59	11	94	9	D(+Q)		
3814.58	8	2,3	> 0.48 ps	234.83	13	91	9			
3814.58	8	2,3	> 0.48 ps	807.7		36.1	12			
3814.58	8	2,3	> 0.48 ps	2305.20	12	100	6	D(+Q)		
3841.87	12	0+	> 0.21 ps	2332.33	11	100		[E2]		
3963.19	16	4+	> 0.21 ps	2453.77	20	49	6			
3963.19	16	4+	> 0.21 ps	594.9						
3963.19	16	4+	> 0.21 ps	1113.2	3	55	6			
3963.19	16	4+	> 0.21 ps	899.3	5	100	8			

Levels Results

2424.95 4	21/2+	6.85 h 7	263.049 13	100.0	E4	0.6
2667.95 7	(13/2+)	> 0.30 ps	420.85 8	36.5 22		
2667.95 7	(13/2+)	> 0.30 ps	506.00 8	100 4		
2755.27 8	(11/2-)	> 0.54 ps	1278.10 10	13.6 7		
2755.27 8	(11/2-)	> 0.54 ps	451.10 9	100.0 12		
3048.23 10	(9/2-)	> 38 fs	607.64 9	100.0 12		
3048.23 10	(9/2-)	> 38 fs	292.9 2	8.8 12	[M1]	0.0
3068.86 12	(13/2+)	> 0.125 ps	427.00 9	100	[M1]	
1625.905 16	2+	> 0.90 ps	847.689 19	100.0 2	M1+E2	-1.05 +9-10
1625.905 16	2+	> 0.90 ps	128.0 4	1.4 8		
1625.905 16	2+	> 0.90 ps	1625.86 4	9.4 6	E2	0.0
1978.450 14	3+	> 2.29 ps	1200.227 13	100.0 4	M1+E2	+0.89 10
1978.450 14	3+	> 2.29 ps	350.06 3	8.2 23	M1+E2	0.0
1978.450 14	3+	> 2.29 ps	480.696 24	30.2 18	M1+E2	+0.12 4
1978.450 14	3+	> 2.29 ps	108.94 11	0.22 7		
1978.450 14	3+	> 2.29 ps	352.56 3	4.74 22	M1+E2	0.0
2219.425 14	4+	> 0.38 ps	721.632 18	100.0 9	E2	0.0
2219.425 14	4+	> 0.38 ps	350.05 3	64 10	(M1,E2)	0.0
2219.425 14	4+	> 0.38 ps	593.23 11	41 8		
2219.425 14	4+	> 0.38 ps	241.2 2	71 4		
2219.425 14	4+	> 0.38 ps	1441.123 23	32 4	E2	0.0
2219.425 14	4+	> 0.38 ps	591.23 5	97 5	(M1,E2)	0.0
2234.63 4	3-	> 0.277 ps	608.69 7	100.0 13	E1	0.0
2234.63 4	3-	> 0.277 ps	1456.25 9	9.72 22	E1	0.0
2234.63 4	3-	> 0.277 ps	365.04 11	9.3 4	E1	0.0
2234.63 4	3-	> 0.277 ps	736.88 7	97.0 13	E1	0.0
2438.477 15	5+	> 0.139 ps	568.869 12	100.0 5	M1+E2	-0.24 3
2438.477 15	5+	> 0.139 ps	460.03 13	46.1 4	E2	0.0
2438.477 15	5+	> 0.139 ps	810.336 24	19.3 5	M1+E2	0.0
2438.477 15	5+	> 0.139 ps	219.080 18	5.14 11	M1+E2	-0.44 4
2440.76 3	6+	> 0.208 ps	812.56 3	100	E2+M3	-0.036 8
2481.06 6	(4)+	> 1.01 ps	611.4 2	25 3		
2481.06 6	(4)+	> 1.01 ps	983.1 2	14 3		
2481.06 6	(4)+	> 1.01 ps	852.91 8	100 8	M1+E2	-0.20 7
2481.06 6	(4)+	> 1.01 ps	1702.78 9	33.9 19	E2	0.0
2611.51 10		> 0.194 ps	985.7	9E+1 4		
2611.51 10		> 0.194 ps	983.32 10	1.0E+2 4		
2734.57 6	(4,5)+	> 0.25 ps	1106.44 8	100 2		
2734.57 6	(4,5)+	> 0.25 ps	864.93 9	55.6 18		
2734.57 6	(4,5)+	> 0.25 ps	1109.1 5	13 5		
2734.57 6	(4,5)+	> 0.25 ps	293.9 4	1.6 5		
2755.08 3	6+	> 0.194 ps	885.4 2	0.7 3	E2+M3	-0.10 3
2755.08 3	6+	> 0.194 ps	314.29 4	16.5 14	M1+E2	-0.11 1
2755.08 3	6+	> 0.194 ps	535.78 8	2.7 3	E2+M3	-0.10 3
2755.08 3	6+	> 0.194 ps	1126.94 4	100 4	E2+M3	-0.037 5
2755.08 3	6+	> 0.194 ps	316.43 7	10.7 23	M1+E2	-0.060 5
2790.21 6	(2,4)	> 0.68 ps	1164.50 14	60 3		
2790.21 6	(2,4)	> 0.68 ps	2011.96 9	100.0 14		
2790.21 6	(2,4)	> 0.68 ps	555.48 9	11.8 14		
2790.21 6	(2,4)	> 0.68 ps	1292.99			
3416.82 6	4+	> 0.61 ps	2638.55 10	81 3	E2	0.0
3416.82 6	4+	> 0.61 ps	976.2 6	25 15		
3416.82 6	4+	> 0.61 ps	1919.33 15	100 3	E2	0.0
3416.82 6	4+	> 0.61 ps	283.0 2	12.5 25		
3416.82 6	4+	> 0.61 ps	1320.78 10	78 4	E2	0.0
3416.82 6	4+	> 0.61 ps	229.9 6	10 5		
3623.19 10	(3+)	> 0.236 ps	2844.91 10	100		
391.84 8	1/2-	43.5 m 10	391.83 8	100	M4	0.3
76 3	(2)+	52.0 m 10	76 3			
38.91 4	1/2-	61 d 2	38.9 1	100	M4	5.1

Levels Results

927.81 3	3/2+	≥ 589 fs	301.00 5	100.0 6	(M1+E2)	-0.21 3	0.0
927.81 3	3/2+	≥ 589 fs	888.91 4	66 4	(E1)		0.0
927.81 3	3/2+	≥ 589 fs	591.42 5	52.8 8	(E2 (+M3))	+0.15 10	0.0
1084.97 4	(5/2)+	≥ 347 fs	157.4 3	<1.05	[M1, E2]		0.1
1084.97 4	(5/2)+	≥ 347 fs	748.56 5	100 6			
1084.97 4	(5/2)+	≥ 347 fs	458.0 2	3.4 4			
1084.97 4	(5/2)+	≥ 347 fs	1084.98 7	1.89 21			
1214.55 4	9/2-	≥ 624 fs	878.35 9	24.7 24	D (+Q)		
1214.55 4	9/2-	≥ 624 fs	546.72 4	100.0 14	E2 (+M3)	-0.16 20	0.0
1214.55 4	9/2-	≥ 624 fs	1214.47 10	23 3	D		
1416.41 5	3/2,5/2(-)	≥ 492 fs	769.86 6	49.7 9			
1416.41 5	3/2,5/2(-)	≥ 492 fs	748.55 5	100 20			
1416.41 5	3/2,5/2(-)	≥ 492 fs	1377.63 10	16.5 5			
1958.98 10	(5/2-)	≥ 596 fs	1622.58 10	100 3	D (+Q)		
1958.98 10	(5/2-)	≥ 596 fs	1958.74 30	50 9			
2212.90 13	(17/2-)	≥ 1.4 ps	663.43 12	100 5	(E1 (+M2))	+0.07 9	0.0
2212.90 13	(17/2-)	≥ 1.4 ps	510.9 3	23 5	(E2)		0.0
2212.90 13	(17/2-)	≥ 1.4 ps	697.6 4	9.4 11	[E1]		0.0
3516.0 3	25/2+	> 5 ps	969.0 3	100	E2 (+M3)	-0.03 8	0.0
34.23 4	4+	51.5 m 10	34.20 5	100	M3		3.7
96.57 6	1/2-	91.0 d 6	96.5 1	100	M4		311
656.90 6	5/2-	≥ 0.76 ps	332.4 3	0.6 1	[E1]		0.0
656.90 6	5/2-	≥ 0.76 ps	560.34 4	100 2	E2		0.0
656.90 6	5/2-	≥ 0.76 ps	441.2	<3	[E1]		0.0
772.68 6	13/2+	≥ 0.35 ps	772.70 7	100	E2		1.5
832.80 6	11/2(+)	≥ 0.35 ps	832.85 7	100	(M1+E2)		0.0
855.45 3	7/2+	≥ 0.37 ps	639.72 2	17.7 10	(M1+E2)	-2.3 +6-1	0.0
855.45 3	7/2+	≥ 0.37 ps	531.16 11	7.6 6			
855.45 3	7/2+	≥ 0.37 ps	855.53 14	100 2	M1+E2	+0.3 2	1.2
861.90 8	(9/2+)	≥ 0.38 ps	646.78 20	19 9			
861.90 8	(9/2+)	≥ 0.38 ps	861.70 10	100 1	(M1+E2)	-0.51 21	1.2
1049.22 7	3/2-	≥ 0.21 ps	469.2 1	61 5	(M1)		0.0
1049.22 7	3/2-	≥ 0.21 ps	392.2 1	100 5	(M1)		0.0
1049.22 7	3/2-	≥ 0.21 ps	724.7 1	84 18	[E1]		6.8
1240.02 7	(7/2-)	≥ 0.26 ps	583.16 5	100 3	(M1+E2)	-0.34 24	0.0
1240.02 7	(7/2-)	≥ 0.26 ps	915.7 2	20 6	(E1)		4.2
1240.02 7	(7/2-)	≥ 0.26 ps	293.6	35			
1240.02 7	(7/2-)	≥ 0.26 ps	659.6 1	88 4	[E2]		0.0
1240.02 7	(7/2-)	≥ 0.26 ps	1024.4 2	29 8	[E1]		3.3
1441.1 10		≥ 0.21 ps	1116.6	100			
1733.3 4	(3/2+,5/2,7/2-)	≥ 0.54 ps	1153.0 6	31 21			
1733.3 4	(3/2+,5/2,7/2-)	≥ 0.54 ps	1517.6 4	100 5			
142.6836 11	1/2-	6.0072 h 9	142.63 3		M4		40.3
142.6836 11	1/2-	6.0072 h 9	2.1726 4		E3		1.4
2588.41 8	5-	≥ 2.8 ps	1070.36 5	100	E1+M2	-0.01 4	0.0
3982.8 3	(23/2)-	> 0.9 ps	783.1 7		(M1)		1.6
3982.8 3	(23/2)-	> 0.9 ps	946.2 3	100			
1741.011 8	0+	> 1.39 ps	610.48 10		E0		
1741.011 8	0+	> 1.39 ps	1740.6 2		E0		
1741.011 8	0+	> 1.39 ps	378.90 5	75.4 13	E2		0.0
1741.011 8	0+	> 1.39 ps	1201.503 16	100.0 11	(E2)		
2075.675 15	6+	> 0.28 ps	849.22 2	100	E2		
2387.22 7	0+	> 0.52 ps	1025.13 17	100 2	[E2]		
2387.22 7	0+	> 0.52 ps	288.81 10	360 60	[E2]		0.0
2387.22 7	0+	> 0.52 ps	1847.68 7	78 4	[E2]		
2493.06 4	(3,4,5+)	> 0.83 ps	612.02 5	18.9 18			
2493.06 4	(3,4,5+)	> 0.83 ps	1266.46 14	100.0 20	D (+Q)	+0.4 6	
2493.06 4	(3,4,5+)	> 0.83 ps	430.42 9	45.5 18			
2493.06 4	(3,4,5+)	> 0.83 ps	627.83 8	56 7			
2569.912 7	(3)-	> 0.30 ps	329.058 12	1.44 21			

Levels Results

2569.912 7	(3)-	> 0.30 ps	1343.47 3	56 4			
2569.912 7	(3)-	> 0.30 ps	470.82 3	3.2 4			
2569.912 7	(3)-	> 0.30 ps	1207.68 6	61 13			
2569.912 7	(3)-	> 0.30 ps	403.042 24	100.0 19	(M1+E2)	+1.58 7	0.0
2569.912 7	(3)-	> 0.30 ps	2030.55 8	10.6 14			
2569.912 7	(3)-	> 0.30 ps	688.89 3	3.9 3			
2576.872 15	5(+)	> 125 fs	1350.431 20	100.0 21	D+Q		
2576.872 15	5(+)	> 125 fs	695.783 21	72 9	(E2)		0.0
2764.943 18	2+,3+	> 0.17 ps	899.87 10	13 3			
2764.943 18	2+,3+	> 0.17 ps	413.703 19	8.8 6			
2764.943 18	2+,3+	> 0.17 ps	883.88 9	13 3			
2764.943 18	2+,3+	> 0.17 ps	398.6 4	33 11			
2764.943 18	2+,3+	> 0.17 ps	1538.33 7	100 3			
2764.943 18	2+,3+	> 0.17 ps	598.16 6	<103			
3069.525 6	(1,2)-	> 0.45 ps	1707.44 6	6.61 9	[E1]		
3069.525 6	(1,2)-	> 0.45 ps	409.18 8	0.26 3			
3069.525 6	(1,2)-	> 0.45 ps	828.70 4	0.48 8	[E1]		
3069.525 6	(1,2)-	> 0.45 ps	3069.44 16	0.09 9	[M2]		
3069.525 6	(1,2)-	> 0.45 ps	533.52 7	3.5 6	[E1]		
3069.525 6	(1,2)-	> 0.45 ps	1204.46 5	1.16 8	[E1]		
3069.525 6	(1,2)-	> 0.45 ps	154.007 10	1.03 3			
3069.525 6	(1,2)-	> 0.45 ps	600.124 6	9.20 9	M1,E2		0.0
3069.525 6	(1,2)-	> 0.45 ps	2529.969 20	100.0 8	D+Q		
3069.525 6	(1,2)-	> 0.45 ps	499.599 7	4.41 6	M1,E2		0.0
3069.525 6	(1,2)-	> 0.45 ps	902.673 19	3.75 16			
3069.525 6	(1,2)-	> 0.45 ps	552.706 8	4.31 4			
3110.57 11	(2+,3+)	> 0.26 ps	943.70 16	100	[E1]		
422.22 3	3/2+	≥ 1.4 ps	422.10 7	33.4 21			
422.22 3	3/2+	≥ 1.4 ps	110.94 12	5.8 6			
422.22 3	3/2+	≥ 1.4 ps	295.01 3	100 3			
422.22 3	3/2+	≥ 1.4 ps	97.5 10	10 5			
422.22 3	3/2+	≥ 1.4 ps	114.6 6	3.1 4			
1622.3 5	19/2-	> 1.2 ps	663.9 3	100	E2		
1862.4 4	15/2+	> 1.7 ps	861.2 3	100	E2		
2173.9 5	17/2+	> 1.4 ps	673.0 3	100	E2		
543.3 3	(1/2)-	1.96 m 4	543.3 3	100	[M4]		0.1
51.98 9	3+	1.51 m 2	51.98 9	100	M3		641 1
258.76 18	1/2-	46.2 m 16	258.76 18	100	M4		2.5
107.59 20	(5+)	4.6 m 2	74.9 2	100	[E3]		51.6
107.59 20	(5+)	4.6 m 2	32.7 2	0.11	[M3]		5.7
157.32 3	9/2+	4.34 d 1	157.41 4	100	M4		29.2
140.73 9	6(+)	3.742 y 10	98.8 1	100	M4		337
39.753 6	7/2+	56.114 m 9	39.755 6	100	E3		20
128.9679 5	5+	4.34 m 3	77.5447 4	100 5	E3		47
128.9679 5	5+	4.34 m 3	31.866 2	0.0279 23	M3		
129.742 4	1/2-	42.8 s 3	129.782 4	100	E3		3.9
268.36 4	1/2-	> 10 μs	268.36 5	100	(E3)		0.1
1314.23 6	0+	> 25 ps	383.2 2	20.9 21	[E2]		0.0
1314.23 6	0+	> 25 ps	880.26 7	100	[E2]		
188.9903 10	11/2-	4.703 m 9	188.990 1	100	E3		0.7
172.18 8	11/2-	5.5 h 1	172.18 8	100	E3		1.1
89.21 16	(7/2-)	50 s 3	89.3 2	100	E3		23.0
62.2+X 17		> 20 μs	62.2 17				
9.40 7	2+	7.7 m 5	9.40 8	100	(M3)		1.1
6.90 22	2+	33.5 m 20	6.9 4	100	[M3]		1.0
25.468 16	7/2+	7.23 m 16	25.48 2	100	E3		2.2
93.125 19	7/2+	44.3 s 2	93.124 20	100	E3		20.4
109.466 7	6+	438 y 9	30.332 8	100	M4		4.3
88.0337 10	7/2+	39.79 s 21	88.0336 10	100	E3		26.3
117.59 5	6+	249.83 d 4	116.48 5	100	M4		164.9

Levels Results

59.82 4	7/2+	64.8 s 8	59.78 4	100	E3	181
43.5 1	7/2+	68.7 s 16	43.6 2	100	E3	
1004.11 10	2+	> 1.0 ps	1004.1 1	100	(E2)	
6746.16 15	(14-)	> 5.5 ps	422.70 5	71 3	(D)	
6746.16 15	(14-)	> 5.5 ps	676.44 5	100 3	Q	
6746.16 15	(14-)	> 5.5 ps	665.43 8	58 3	D+Q	
7788.93 18	(16)	> 5.5 ps	1042.76 4	100	Q	
8099.66 13	(17-)	> 1.25 ps	837.98 8	19 13		
8099.66 13	(17-)	> 1.25 ps	767.77 5	24.7 13	D	
8099.66 13	(17-)	> 1.25 ps	1088.56 4	100 4	Q	
8942.69 18	(18-)	> 1.25 ps	843.46 4	100 4	D+Q	
8942.69 18	(18-)	> 1.25 ps	433.92 6	30.8 13		
396.214 21	11/2-	48.50 m 9	150.824 13	100	E3	2.3
2300.68 7	0+	> 623 fs	831.79 10	48.4 12	E2	1.7
2300.68 7	0+	> 623 fs	1683.22 10	100.0 12	E2	5.4
2570.21 6	5-	> 693 fs	565.10 20	31 3	E2	0.0
2570.21 6	5-	> 693 fs	1154.75 10	100	E1	3.8
2570.21 6	5-	> 693 fs	197.03 10	95 9	M1	0.0
2570.21 6	5-	> 693 fs	699.59 10	71 4	E1	1.0
2571.47 6	6+	> 693 fs	403.55 10	5.9 7	M1+E2	-0.57 6
2571.47 6	6+	> 693 fs	1156.21 10	89 5	E2	8.3
2571.47 6	6+	> 693 fs	700.89 10	100 3	E2	0.0
2591.05 5	4-	> 693 fs	720.44 10	11.7 7	E1	9.3
2591.05 5	4-	> 693 fs	585.78 10	23.0 7	M1+E2	+0.47 +8-7
2591.05 5	4-	> 693 fs	1175.50 10	100.0 11	E1	3.8
2591.05 5	4-	> 693 fs	526.52 10	48.0 11	E1	0.0
2665.64 6	5+	> 208 fs	601.01 10	60 4	E2	0.0
2665.64 6	5+	> 208 fs	1250.17 10	65.6 24	M1+E2	-0.12 +6-5
2665.64 6	5+	> 208 fs	583.92 10	100	M1+E2	+0.30 4
2665.64 6	5+	> 208 fs	795.08 13	40 3	M1 (+E2)	+0.14 +18-17
2773.08 8	(0)+	> 693 fs	1460.83 10	100.0 10	E2	5.8
2773.08 8	(0)+	> 693 fs	541.80 10	19.2 10	E2	0.0
2791.79 11	(4)-	> 97 fs	786.59 10	100	M1+E2	+0.038 +49-14
2816.71 7	4+	> 416 fs	1401.3 1		M1+E2	6.8
2816.71 7	4+	> 416 fs	811.3 1		E1	7.3
2816.71 7	4+	> 416 fs	735.20 10		M1+E2	+4.0 +39-13
2834.27 7	0+	> 347 fs	1521.82 12	26.2 19	E2	5.6
2834.27 7	0+	> 347 fs	712.68 10	19 4	E2	0.0
2834.27 7	0+	> 347 fs	2216.74 10	100	E2	6.4
2840.22 11	(4)+	> 485 fs	1424.73 10	100	M1+E2	-1.28 +18-24
2882.82 8	0+	> 693 fs	726.79 14	36 5	E2	0.0
2882.82 8	0+	> 693 fs	1570.51 14	28.5 25	E2	5.5
2882.82 8	0+	> 693 fs	1413.86 10	100 5	E2	6.0
2893.51 6	4+	> 416 fs	771.76 10	37 4	E2	0.0
2893.51 6	4+	> 416 fs	2276.07 10	100 4	E2	6.5
2893.51 6	4+	> 416 fs	811.9 1		M1+E2	0.0
2924.83 5	4-	> 139 fs	919.58 10	100 3	M1+E2	-0.22 10
2924.83 5	4-	> 139 fs	1509.36 10	75.9 23	E1	4.7
2924.83 5	4-	> 139 fs	551.63 10	28 3	M1+E2	0.0
2924.83 5	4-	> 139 fs	1054.24 10	62 3	E1	4.4
2924.83 5	4-	> 139 fs	333.72 10	60 3	M1+E2	-0.21 +18-17
3066.23 10	(2,3)-	> 207 fs	1753.8	56.3 23	E1	6.0
3066.23 10	(2,3)-	> 207 fs	2448.76 10	100.0 23	E1	1.0
3068.62 6	4+	> 555 fs	1756.30 14	36.5 22	E2	5.4
3068.62 6	4+	> 555 fs	1063.49 10	100.0 19	E1	4.3
3068.62 6	4+	> 555 fs	1653.09 10	44.8 17	M1+E2	-0.54 21
3068.62 6	4+	> 555 fs	1599.70 10	93.4 22	E2	5.5
3071.46 8	(4)+	> 249 fs	1066.28 10	39 4		
3071.46 8	(4)+	> 249 fs	1006.9 1	100 4		
3189.82 9	4+,5,6+	> 354 fs	1022.09 13	83 4		

Levels Results

3189.82 9	4+, 5, 6+	> 354 fs	1774.30 10	100 4			
3205.74 12	2+, 3, 4	> 111 fs	1736.90 12	100			
3205.74 12	2+, 3, 4	> 111 fs	1790.2				
3392.78 12	1, 2+	> 693 fs	3392.72 12	100			
3393.39 4	0+: 4+	> 970 fs	2775.83 4	100			
3402.93 10	1+, 2+, 3+	> 527 fs	2785.37 10	100	M1+E2	-1.8 +3-4	8.2
3511.6 3	3-: 7-	> 485 fs	1138.4 3	100			
3754.09 11	2+: 6+	> 416 fs	2338.58 10	100			
263.54 3	11/2-	14.1 y 5	263.7 3	100	E5		4.2
1864.262 8	3+	> 0.87 ps	654.551 5	100 5	M1+E2	-4.2 +8-6	
1864.262 8	3+	> 0.87 ps	132.015 9	0.041	M1+E2	<0.65	
1864.262 8	3+	> 0.87 ps	580.516 5	22.8 12	M1		
1864.262 8	3+	> 0.87 ps	1305.783 21	86 5	M1+E2	-0.10 +6-2	
1864.262 8	3+	> 0.87 ps	499.92 3	0.4 1	M1		
1932.077 8	(4) +	> 0.31 ps	567.74 3	34.5 15	E2		
1932.077 8	(4) +	> 0.31 ps	722.368 6	100 5	E2		
1932.077 8	(4) +	> 0.31 ps	199.833 4	2.4 10	M1		
1932.077 8	(4) +	> 0.31 ps	648.316 17	66 6	M1, E2 (+E0)		
2152.266 8	3+, 4+	> 0.35 ps	868.513 17	63 4	M1, E2		
2152.266 8	3+, 4+	> 0.35 ps	310.316 6	20.2 11	E2		
2152.266 8	3+, 4+	> 0.35 ps	1593.3 6	<43			
2152.266 8	3+, 4+	> 0.35 ps	786.8 4	<13			
2152.266 8	3+, 4+	> 0.35 ps	287.981 9	24.3 12	M1		
2152.266 8	3+, 4+	> 0.35 ps	942.55 3	100 9	M1+E2		
2152.266 8	3+, 4+	> 0.35 ps	420.023 4	37 3	M1+E2		
2152.266 8	3+, 4+	> 0.35 ps	220.189 4	4.5 4	M1, E2		
2204.561 8	3+	> 0.55 ps	840.217 12	43 5	M1		
2204.561 8	3+	> 0.55 ps	340.294 7	3.8 2	M1, E2+E0		
2204.561 8	3+	> 0.55 ps	994.852 9	71 4	M1+E2	0.8 +7-3	
2204.561 8	3+	> 0.55 ps	472.310 8	4.5 2	M1		
2204.561 8	3+	> 0.55 ps	246.472 4	1 1	E1		
2204.561 8	3+	> 0.55 ps	920.791 13	73 6	M1		
2204.561 8	3+	> 0.55 ps	362.608 5	4.4 2	M1 (+E2)	<0.82	
2204.561 8	3+	> 0.55 ps	156.531 3	0.3 3	M1 (+E2)	<0.42	
2204.561 8	3+	> 0.55 ps	1646.12 4	100 5	M1+E2	-0.10 +3-5	
2298.93 2	5-	> 1.04 ps	1015.178 17	100	E1		
2298.93 2	5-	> 1.04 ps	366.91 4	3 1			
2437.64 8	0+	> 0.90 ps	2437.7 1	14	E0		
2437.64 8	0+	> 0.90 ps	1879.10 5	100 6	E2		
2437.64 8	0+	> 0.90 ps	1228.00 10	8.6 11	E2		
2460.757 12	4-	> 0.68 ps	1177.04 3	100 7	E1		
2460.757 12	4-	> 0.68 ps	502.667 10	18.0 13	M1, E2		
2460.757 12	4-	> 0.68 ps	728.56 6	9.7 17			
2460.757 12	4-	> 0.68 ps	256.195 4	12.5 6	E1		
2460.757 12	4-	> 0.68 ps	1902.19 14	97 17			
2460.757 12	4-	> 0.68 ps	596.485 5	61 6	E1		
2525.420 10	2+	> 0.35 ps	306.560 7	7.6 4	E2+M1	>0.82	
2525.420 10	2+	> 0.35 ps	1966.80 20	87 16			
2525.420 10	2+	> 0.35 ps	1161.06 3	56 5	M1		
2525.420 10	2+	> 0.35 ps	567.328 7	30 6	E1		
2525.420 10	2+	> 0.35 ps	140.659 3	0.5 1	E1		
2525.420 10	2+	> 0.35 ps	1315.677 22	100 10	M1		
2525.420 10	2+	> 0.35 ps	665.735 15	10.0 6	E2		
2525.420 10	2+	> 0.35 ps	320.835 13	0.7 1	M1		
2525.420 10	2+	> 0.35 ps	2525.1 1	58 10			
2525.420 10	2+	> 0.35 ps	1219.78 3	73 5	E2		
2525.420 10	2+	> 0.35 ps	661.21 3	5.4 6	M1		
2874.26 6	2, 4	> 0.62 ps	2316.2 2				
2874.26 6	2, 4	> 0.62 ps	826.11 8	100 2			
2874.26 6	2, 4	> 0.62 ps	1664.77 9	33 1			

Levels Results

2874.26 6	2, 4	> 0.62 ps	916.27 9	19 1			
2935.76 6	2+	> 0.35 ps	1725.78 20	85 3	M1+E2	-1.5	+1-14
2935.76 6	2+	> 0.35 ps	1652.53 9	100 2	E2		
2935.76 6	2+	> 0.35 ps	2377.67 9	93 6	M1+E2		
2935.76 6	2+	> 0.35 ps	1629.36 10	56 1	E2		
631.7 1	(1/2-)	34 s 2	631.7 1		(M4)		
674.09 25	(1/2-)	48 s 6	674.1 3	100	M4		
678.5 3	1/2-	50.4 s 6	678.5 3	100	M4		0.0
649.79 10	1/2-	1.34 m 6	649.8 2	100	M4		0.0
3285.8 3	19/2-	> 1.0 ps	218.48 11	100	M1		0.0
334.09 5	2+	≥ 4.9 ps	272.018 15	100 3	M1+E2	+0.06 4	0.0
334.09 5	2+	≥ 4.9 ps	131.63 8	0.39 3			
342.55 5	1+	≥ 4.9 ps	280.459 15	100 4	M1 (+E2)	+0.04 22	0.0
799.851 16	7-	≥ 2.0 ps	231.52 10	2.14 20	[E1]		0.0
799.851 16	7-	≥ 2.0 ps	799.83 2	100.0 20	E1		0.0
799.851 16	7-	≥ 2.0 ps	386.36 2	23.1 6	E1		0.0
808.072 21	8-	≥ 2.4 ps	808.09 3	100.0 25	E1		0.0
808.072 21	8-	≥ 2.4 ps	8.0 10	0.37 19	[M1+E2]		4E4
808.072 21	8-	≥ 2.4 ps	394.59 2	42.8 11	E1		0.0
808.072 21	8-	≥ 2.4 ps	93.44 20	1.67 19	E1		0.2
1006.06 3	(5, 6)	≥ 1.7 ps	569.06 19	7.2 9			
1006.06 3	(5, 6)	≥ 1.7 ps	149.80 2	100 5	M1		0.1
1017.93 4	9-	≥ 1.2 ps	209.80 4	100	M1+E2		0.0
1204.87 5	4-, 5-, 6-	≥ 1.1 ps	198.81 4	100	M1+E2		0.1
1482.35 6		≥ 1.8 ps	277.48 3	100			
536.99 7	1/2-	7.7 m 2	537.22 9	100	M4		0.1
2767.78 25	5/2+	> 1.4 ps	2767.3 4	63 13			
2767.78 25	5/2+	> 1.4 ps	1580.4 3	100 10			
3024.53 14	23/2-	> 1.4 ps	281.7 2	100	M1+E2	+0.02 6	
156.592 25	4+	20.67 m 8	156.61 3	100	M3		6.5
391.699 3	1/2-	99.476 m 23	391.698 3	100	M4		0.5
190.2682 8	5+	49.51 d 1	190.2684 8	100	E4		5.0
336.244 17	1/2-	4.486 h 4	336.241 25	100	M4		1.0
315.303 11	1/2-	116.2 m 3	315.302 13	100	M4		1.4
311.37 3	1/2-	18.0 m 3	311.39 3	100	M4		1.5
313.68 7	1/2-	3.88 m 10	313.60 9	100	M4		1.4
2078.1+X	(21/2-)	≥ 100 μs	X				
2257.4 3	(17/2)+	≥ 4 ns	192.3 2	100	M1 (+E2)	-0.03 3	
2190.81 6	0+	≥ 2.7 ps	2190.9 5		E0		
2190.81 6	0+	≥ 2.7 ps	934.12 4	100	E2		1.5
2476.16 11	2+	> 2.4 ps	286				
2476.16 11	2+	> 2.4 ps	2475.8 3	100.0 24	E2		7.4
2476.16 11	2+	> 2.4 ps	1219.34 13	20.5 24	M1+E2	-0.54 7	9.7
2617.62 18	0+	> 0.4 ps	1360.92 17	100	E2		7.0
2756.02 9	3+	> 0.8 ps	605.1 2	21.2 13	[M1+E2]		0.0
2756.02 9	3+	> 0.8 ps	279.5 2	4.0 4	[M1+E2]		0.0
2756.02 9	3+	> 0.8 ps	508.8 3		M1+E2	0.2 1	0.0
2756.02 9	3+	> 0.8 ps	234.8 3	5.9 6	[M1+E2]		0.0
2756.02 9	3+	> 0.8 ps	1499.5 1	100 3	M1 (+E2)	≤0.08	7.1
2756.02 9	3+	> 0.8 ps	401.3 5	2.6 6	[E1]		0.0
2765.2 3	0+:4+	> 1.0 ps	1508.5 3	100			
2913.07 21	4+	> 0.6 ps	392.8 5	12 3	[M1]		0.0
2913.07 21	4+	> 0.6 ps	1656.3 4	35 3	E2		5.9
2913.07 21	4+	> 0.6 ps	665.6 3	100 3	[M1]		0.0
2917.39 10	2+, 3, 4+	> 1.1 ps	767.0 2	11.8 8			
2917.39 10	2+, 3, 4+	> 1.1 ps	669.9 1	100 15			
2926.82 18	6+	> 0.22 ps	378.6 3	100	M1		0.0
2945.70 13	4+	> 1.1 ps	1688.7 3	100	E2		5.9
2945.70 13	4+	> 1.1 ps	794.5 2		E2		0.0
2945.70 13	4+	> 1.1 ps	470				

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2986.4 3	0+	> 1.7 ps	1729.7 3	100	E2		5.9
3078.53 13	(2,3)+	> 1.2 ps	1821.8 2	100 4	M1+E2	-1.3 +3-5	6.1
3078.53 13	(2,3)+	> 1.2 ps	557.8 3	12.0 8			
3078.53 13	(2,3)+	> 1.2 ps	927.7 2	97 3	M1+E2	0.60 +1-2	0.0
3078.53 13	(2,3)+	> 1.2 ps	831.1 4	8.8 19			
3133.42 11	5-	> 1.0 ps	886.0 1	100.0 12	E1		6.9
3133.42 11	5-	> 1.0 ps	779.3 2	16.3 12	E2		0.0
3248.69 10	2+	> 1.1 ps	772.44 24	25.9 19	[M1+E2]		0.0
3248.69 10	2+	> 1.1 ps	1097.4 2		[M1+E2]		1.2
3248.69 10	2+	> 1.1 ps	3248.8 8	100.0 21	E2		1.0
3248.69 10	2+	> 1.1 ps	894.2 2	27 19	[E1]		6.7
3248.69 10	2+	> 1.1 ps	1992.25 12	22.9 13	M1+E2		6.4
3338.3 3	2+	> 0.3 ps	2081.6 3	100	M1+E2		6.5
3353.1 4	2+	> 1.4 ps	3353.0 5	100 3	E2		1.0
3353.1 4	2+	> 1.4 ps	2096.4 4	9 3	M1+E2		6.5
3417.41 11	4+	> 0.4 ps	2160.7 1	100	E2		6.5
3456.31 20	2+,3+	> 0.7 ps	2199.6 2	100 6	M1+E2	2.8 10	6.6
3456.31 20	2+,3+	> 0.7 ps	700.3 6	22 5			
3471.7 3	4+	> 0.23 ps	951.0 3	100	[M1]		1.7
3524.54 18	2+	> 0.12 ps	1277.7 5	22 8	E2		7.8
3524.54 18	2+	> 0.12 ps	3524.2 10		E2		1.1
3524.54 18	2+	> 0.12 ps	431.9 6	9.2 14	[M1]		0.0
3524.54 18	2+	> 0.12 ps	2267.80 20	100 8	M1 (+E2)	≥-0.5	6.8
3557.29 12		> 0.3 ps	1036.1 4	16.3 23			
3557.29 12		> 0.3 ps	1203.1 1	100.0 23			
77.389 19	7/2+	21.4 m 4	77.38 2	100	M3+E4	0.13 2	181 5
498.07 5	3/2+	> 0.35 ps	497.96 9	100 5	M1+E2	0.12 6	
498.07 5	3/2+	> 0.35 ps	420.7 2	0.3 2			
498.07 5	3/2+	> 0.35 ps	88.25 2	3.4 4			
2200.7 3	5/2+	> 0.24 ps	1702.6 3	100	M1+E2	-0.5 3	
3223.2 5	(19/2)-	> 1.4 ps	1316.5 3	100	Q		
4475.1 6	(27/2+)	> 1.1 ps	417.1 3	100	M1+E2	0.4 2	
2156.28 3	0+	> 7.6 ps	856.37 3	100	E2		
2815.146 22	5-	> 1.4 ps	200.84 12	1.3 3			
2815.146 22	5-	> 1.4 ps	627.54 2	100 3	E1		
2815.146 22	5-	> 1.4 ps	540.15 13	10.5 3	E2		
3244.39 7	6-	> 1.4 ps	157.1 1	5.09 15			
3244.39 7	6-	> 1.4 ps	429.19 8	100.0 7	M1+E2	+0.161 +4-3	
2592.35 19	(15/2-)	> 2.4 ps	1878.9 2	100			
2938.24 17	(17/2-)	> 1.7 ps	253.1 3	43 12			
2938.24 17	(17/2-)	> 1.7 ps	912.8 5	65 22			
2938.24 17	(17/2-)	> 1.7 ps	346.1 2	20 10			
2938.24 17	(17/2-)	> 1.7 ps	992.2 2	100 18			
3203.81 12	17/2-	> 1.0 ps	1257.8 2	21 3			
3203.81 12	17/2-	> 1.0 ps	550.1 1	100 3			
3203.81 12	17/2-	> 1.0 ps	1178.4 3	55 6			
3203.81 12	17/2-	> 1.0 ps	360.1 5	39 3			
3203.81 12	17/2-	> 1.0 ps	559.4 3	11.2 19			
4060.18 13	(23/2-)	> 1.0 ps	1055.9 1	21.8 11	E2		
4060.18 13	(23/2-)	> 1.0 ps	588.2 1	6.5 5	(E2)		
4060.18 13	(23/2-)	> 1.0 ps	801.4 2	4.6 5			
4060.18 13	(23/2-)	> 1.0 ps	181.0 1	3.4 3			
4060.18 13	(23/2-)	> 1.0 ps	741.6 1	100 4	E2		
314.58 4	11/2-	14.00 d 5	314.3 3	0.020 5	[E5]		1.7
314.58 4	11/2-	14.00 d 5	156.02 3	100	M4		46.9
2328.02 3	2+	> 0.2 ps	285.22 11	5.1 6			
2328.02 3	2+	> 0.2 ps	2327.82 8	23.4 8	E2		
2328.02 3	2+	> 0.2 ps	1098.2 5	100 19	E2 (+M1)		
2488.871 19	4+	> 0.55 ps	1259.19 2	67 3	E2		
2488.871 19	4+	> 0.55 ps	445.99 1	100 3	E2		0.0

Levels Results

2488.871	19	4+	> 0.55 ps	208.52	2	52	7	M1+E2	-0.17	4	0.0
2677.35	3	2+	> 0.28 ps	2677.35	4	100	4	E2			
2677.35	3	2+	> 0.28 ps	1447.66	3	86	4	M1+E2	+2.46	+17-13	
89.531	13	11/2-	293.1 d	7	65.66	1	100	M4			5.0
2159.931	25	0+	> 4 ps	988.66	2	100					
2587.25	15	0+	> 0.34 ps	1415.88	15	100		E2			
2643.353	20	4+	> 1.0 ps	546.13	2	37.5	13				
2643.353	20	4+	> 1.0 ps	449.06	4	15.4	7	M1+E2	-0.38	12	
2643.353	20	4+	> 1.0 ps	1472.07	2	100	4	E2			
2643.353	20	4+	> 1.0 ps	177.70	8	7.7	20				
6.31	6	11/2-	43.9 y	5	6.29	8	100	[M4]			8.7
2087.71	5	0+	> 0.277 ps	947.19	4	100		E2			
2675.57	6	0+	> 0.2 ps	1535.05	5	100					
2192.17	3	0+	> 0.55 ps	1060.42	2	100		E2			1.1
2688.50	5	0+	> 0.28 ps	1556.77	5	100.0	13				
2688.50	5	0+	> 0.28 ps	558.81	12	28.2	13	E2			
2819.3	5	(6+)	> 0.4 ps	717.6	5	100		E2			
2836.58	4	3+	> 0.28 ps	735.34	18	18.6	17	(M1+E2)	-0.94	10	0.0
2836.58	4	3+	> 0.28 ps	706.98	4	100.0	17	M1+E2	+2.1	3	0.0
2836.58	4	3+	> 0.28 ps	1704.87	11	27.8	10	(M1+E2)	+1.5	3	6.1
2836.58	4	3+	> 0.28 ps	614.76	6	34.5	18	(M1+E2)			0.0
2958.11	6	4+	> 0.9 ps	1826.38	7	100	5				
2958.11	6	4+	> 0.9 ps	531.1	2	26	3	(Q)			
2958.11	6	4+	> 0.9 ps	856.55	13	35.7	26	(M1+E2)			0.0
2958.11	6	4+	> 0.9 ps	737.4	5	43	6	D+Q	+0.6	9	
2988.03	3	3-	> 0.55 ps	385.38	5	53	4	M1+E2	+1.7	3	0.0
2988.03	3	3-	> 0.55 ps	373.75	13	10.5	10	(M1+E2)			0.0
2988.03	3	3-	> 0.55 ps	1856.33	3	100	8	E1 (+M2)	-0.02	2	6.8
2988.03	3	3-	> 0.55 ps	234.95	7	16.5	11	(M1+E2)	-0.07	11	0.0
3267.13	9	1,2,3	> 0.14 ps	2135.37	8	100		D,D+Q			
2638.42	9	15/2-	> 2.1 ps	1338.24	9	100	5	E2			
2638.42	9	15/2-	> 2.1 ps	322.34	14	23.7	20	M1+E2	-0.14	9	0.0
1159.99	8	9/2+	> 2 ps	632.7	1	3.4	2	E2			
1159.99	8	9/2+	> 2 ps	1160.0	1	100	2	E2			
1310.62	14	9/2+	> 50 fs	783.2	3	17	3	M1+E2	-0.16	8	
1310.62	14	9/2+	> 50 fs	221.7							
1310.62	14	9/2+	> 50 fs	1310.5	2	100	2	E2			
1536.53	16	(9/2+)	≥ 243 fs	447.1	2	5.6	11				
1536.53	16	(9/2+)	≥ 243 fs	1536.6	2	14.4	11				
1536.53	16	(9/2+)	≥ 243 fs	1009.2	6	100	3	M1+E2	-0.4	3	
1623.9	12	3/2	≥ 132 fs	700.0							
2323.05	13	15/2-	> 2 ps	1000.1	1	100		E2			
2778.65	25	17/2+	> 1.4 ps	591.2	2	100		E2			
3214.13	15	19/2-	> 1.4 ps	141.5	2	2.0	5				
3214.13	15	19/2-	> 1.4 ps	891.3	2	62	2	E2			
3214.13	15	19/2-	> 1.4 ps	433.5	2	21	1	M1,E2			
3214.13	15	19/2-	> 1.4 ps	801.6	2	3.6	5	E2			
3214.13	15	19/2-	> 1.4 ps	372.5	2	87	4	M1,E2			
3214.13	15	19/2-	> 1.4 ps	589.6	2	100	5	E1			
699.88	5	3/2+,5/2+	> 300 fs	699.85	6	100	5	M1,E2			0.0
699.88	5	3/2+,5/2+	> 300 fs	429.50	10	0.83	25	E2			0.0
1048.42	5	7/2+	> 300 fs	777.91	19	2.1	12	[M1]			0.0
1048.42	5	7/2+	> 300 fs	1048.44	6	100.0	15	M1(+E2)	≤0.97		0.0
1327.25	11	(1/2-)	> 76 fs	627.72		13		[E1]			0.0
1327.25	11	(1/2-)	> 76 fs	1327.38		8					
1327.25	11	(1/2-)	> 76 fs	683.21	10	100	23	[E1]			0.0
1487.61	6	(3/2+)	> 215 fs	1216.87	20	0.14					
1487.61	6	(3/2+)	> 215 fs	149.36	20	10		[M1,E2]			0.3
1487.61	6	(3/2+)	> 215 fs	843.57	8	100	14				
1487.61	6	(3/2+)	> 215 fs	1487.36	20	0.29					

Levels Results

1487.61	6	(3/2+)	> 215 fs	787.76	10	91	14	
1646.5	10	1/2+	> 450 fs	1646.5		100		
1848.2	10		> 130 fs	1848.2		100		
1035.429	14	9/2+	> 0.3×10 ⁻³ ps	1035.40	10	0.72	30	
1035.429	14	9/2+	> 0.3×10 ⁻³ ps	998.291	11	100	2	M1+E2
163.5591	17	(8)-	4.191 m 3	26.0867	24	100		(E3)
10.8627	8	5+	93 s 5	10.8630	11	100		[M2]
36.8440	14	(8)-	20.2 m 2	25.981	3	100		E3
17.7	3	(5+)	19.15 m 9	17.7	3	100		(E3)
0.0+X		5+	10.41 m 18	<20.0				[E3]
1851.31	6	(19/2-)	17.7 m 1	722.69	5	100		(M4)
293.974	22	11/2-	164.2 d 8	81.788	18	100		M4
1357.401	24	0+	> 1.39 ps	793.27	2	100	2	
1357.401	24	0+	> 1.39 ps	1357.4	1			E0
1747.04	3	0+	> 1.32 ps	1182.88	3	100	1	
1747.04	3	0+	> 1.32 ps	490.24	5	41	1	
1940.44	9	0+	> 1.39 ps	683.48	17	100	2	
1940.44	9	0+	> 1.39 ps	1940.6	2			E0
1940.44	9	0+	> 1.39 ps	583.1	2			E0
1940.44	9	0+	> 1.39 ps	1376.23	13	4.7	6	
2535.72	7	3,4,5	> 0.47 ps	1354.46	6	100		D+Q
2538.84	5		> 0.76 ps	1357.70	8	35.8	9	
2538.84	5		> 0.76 ps	628.93	20	19.8	12	
2538.84	5		> 0.76 ps	586.90	4	100.0	10	D+Q
247.45	4	11/2-	119.2 d 3	247.5	2	0.37	4	[E5]
247.45	4	11/2-	119.2 d 3	88.46	3	100	4	M4
144.775	8	11/2-	57.40 d 15	144.780	25	1.4E-4		[E5]
144.775	8	11/2-	57.40 d 15	109.276	15	100	1	M4
2218.085	19	5-	> 1.4 ps	204.71	7	1.88	13	E1
2218.085	19	5-	> 1.4 ps	856.80	2	100	3	E1+M2
3096.79	20		> 0.52 ps	2430.24	8	59	22	
3096.79	20		> 0.52 ps	1676.69	6	1.0E2	4	
88.23	7	11/2-	106.1 d 7	88.3	1	100		M4
2308.30	4	0+	> 1.7 ps	788.29	8	39	4	
2308.30	4	0+	> 1.7 ps	1565.08	4	100	6	
105.51	3	11/2-	33.6 d 1	105.50	5	100		M4
182.258	18	11/2-	33.25 h 25	182.25	2	100		(M4)
334.26	4	(11/2-)	55.4 m 4	334.27	4	100		M4
104.0+X	20	(7-)	8.5 m 5	104	2	100		
39.9525	13	2+	8.84 m 6	39.9542	21	100		M3
120	20	(8-)	1.387 h 15	98.0	10	100		E3
316.49	22	(8)-	3.52 m 4	272.1	1	100		E3
316.49	22	(8)-	3.52 m 4	316.3	10	<0.6		[M4]
252.61	14	9/2(-)	57 s 1	140.5	2	100		E3
297.10	8	9/2-	69.2 s 9	172.4	1	100		E3
236.14	3	11/2-	8.88 d 2	196.56	3	100		M4
163.930	8	11/2-	11.84 d 4	163.930	8	100		M4
233.221	15	11/2-	2.198 d 13	233.221	15	100		M4+E5
526.551	13	11/2-	15.29 m 5	526.561	17	100		M4
68.5	3	9/2(+)	122 s 3	68.5	3	100		M3
45.87	12	(3)+	> 1 μs	45.85	15	100		E2
272.44	25	(4)-	≥ 1 μs	55				
272.44	25	(4)-	≥ 1 μs	31.0				
163.25	11	5-	3.46 m 6	82.9	1	100	6	E3
163.25	11	5-	3.46 m 6	31.5	3	0.54	6	[E3]
163.25	11	5-	3.46 m 6	14.9	3	0.00038	6	[M3]
138.7441	26	8-	2.912 h 2	138.733	11	0.031	4	M4
138.7441	26	8-	2.912 h 2	127.5021	28	100	10	E3
1632.9		19/2-	53 m 2	846.1		100		M4
79.9	3	6-	2.91 m 10	79.9	3	100		M3

Levels Results

8.42 6	7/2+	2.135 h 10	8.4 2		[M3]	1.0
187.995 9	9/2-	14.6 m 2	79.918 7	100	E3	80.1
288.252 9	11/2-	38.93 h 10	288 1	0.036 25	[E5]	4.0
288.252 9	11/2-	38.93 h 10	275.925 7	100.000	M4	4.6
268.218 20	11/2-	28.7 h 2	268.218 20	100	M4	5.3
1578.969 22	0+	> 735 fs	760.45 2	100	E2	0.0
1578.969 22	0+	> 735 fs	1579.819		E0	
2315.26 7	0+	> 0.85 ps	1496.73 7	100	E2	8.7
2587.08 3	(5)+	> 0.83 ps	720.47 2	100	M1+E2	-0.14 2
661.659 3	11/2-	2.552 m 1	661.657 3	100	M4	0.1
2189.861 22	(1,2+)	≥ 0.8 ps	2189.2 4	4.4 11		
2189.861 22	(1,2+)	≥ 0.8 ps	754.05 2	100 6		
3504.28 10	2-	≥ 0.2 ps	2068.15 15	<52		
3504.28 10	2-	≥ 0.2 ps	1605.4 2	54 5		
3504.28 10	2-	≥ 0.2 ps	3504.91 18	100 8	Q	
3600.73 10	1	≥ 0.09 ps	3600.56 17	86 9	D	
3600.73 10	1	≥ 0.09 ps	2164.96 12	100 10		
1558.03 23	(23/2-)	≥ 1.2 ps	641.4 3	100	(E2)	
188.20 11	6-	24.3 m 5	188.5 3	100	E4	8.3
188.20 11	6-	24.3 m 5	52.8 1	13.5 10	M3	
36.8 12	(7/2-)	> 10 μs	29.56 5	100.0	[E1]	1.1
1451.8 4	(19/2-)	> 2.8 ps	156.0			
1451.8 4	(19/2-)	> 2.8 ps	641.9 4		(E2)	
5642.6 8	16+	> 0.69 ps	810 1			
5642.6 8	16+	> 0.69 ps	338 1			
5642.6 8	16+	> 0.69 ps	856.6 5	100	E2	0.0
5876.9 9	17+	> 0.69 ps	572 1			
5876.9 9	17+	> 0.69 ps	234.4 5		M1	0.1
6170.2 9	(18+)	> 0.69 ps	293.3 5	100	D	
254.29 5	11/2-	34.4 h 3	254.29 5	100	M4	7.9
754.24 8	11/2-	57.58 s 32	754.24 8	100	M4	0.0
2088.6 3	3/2+,5/2+	> 0.8 ps	1833.2	9 6		
2088.6 3	3/2+,5/2+	> 0.8 ps	768.8			
2088.6 3	3/2+,5/2+	> 0.8 ps	2088.4	100 10		
3016.9 5	0+	≥ 0.14 ps	3016.3 12		E0	
3016.9 5	0+	≥ 0.14 ps	1420.7 5	100 15	E2	1.0
3408.02 15	(2+)	≥ 0.062 ps	3408.1 4	57 7		
3408.02 15	(2+)	≥ 0.062 ps	944.0 3	41 7		
3408.02 15	(2+)	≥ 0.062 ps	1811.0 3	49 7		
3408.02 15	(2+)	≥ 0.062 ps	886.42 22	100 11		
3408.02 15	(2+)	≥ 0.062 ps	996.2 3	27 7		
3539.1 3	2+	≥ 0.21 ps	3539.1 3	100	E2	1.1
3646.7 6	(1,2+)	≥ 0.062 ps	3646.6 6	100 18		
3646.7 6	(1,2+)	≥ 0.062 ps	1743.31 22	75 11		
3723.54 17	(2+)	≥ 0.097 ps	3723.4 3	100 7	(E2)	1.2
3723.54 17	(2+)	≥ 0.097 ps	1311.56 19	45 7		
1652.91 4	3-	> 1.8 ps	1011.7 1	100.0	E1	0.0
1652.91 4	3-	> 1.8 ps	433.2 1	14.94	E1	0.0
2124.91 8	5-	> 0.41 ps	381.8 1	11.25		
2124.91 8	5-	> 0.41 ps	905.6 1	100.0	E1	0.0
2124.91 8	5-	> 0.41 ps	471 1	12.50		
2374.96 8	+	> 0.69 ps	631.8 1	92.3	M1+E2	<-1.5
2374.96 8	+	> 0.69 ps	1155.7 1	100.0	M1+E2	-0.09 +6-11
2576.23 6	3+	> 0.69 ps	923.4 1	38.71		
2576.23 6	3+	> 0.69 ps	297.8 1	48.39	M1+E2	1.1 +6-4
2576.23 6	3+	> 0.69 ps	531.9 1	100.0	M1 (+E2)	0.00 +6-9
2576.23 6	3+	> 0.69 ps	1039.9 1	77.42	M1+E2	-0.8 +4-7
2576.23 6	3+	> 0.69 ps	394.0 1	61.29	(M1+E2)	0.5 +5-4
2598.27 10	2+	> 1.66 ps	2598.0 2	85.19	E2	0.0
2598.27 10	2+	> 1.66 ps	1062.0 1	100.0	M1+E2	-0.26 +11-7

Levels Results

2734.77 9	(3,2)+	> 0.37 ps	1081.9 1	35.90	(M1+E2)	-0.09	+12-20	0.0
2734.77 9	(3,2)+	> 0.37 ps	2093.3 2	61.54	M1+E2	5.2	+5-22	0.0
2734.77 9	(3,2)+	> 0.37 ps	622.7 1	61.54	(M1+E2)	0.19	25	0.0
2734.77 9	(3,2)+	> 0.37 ps	1515.4 2	100.0	M1+E2	-0.29	+23-18	0.0
2773.92 9	(3)+	> 0.69 ps	2133.3 2	100.0	M1+E2	0.19	+3-7	0.0
2773.92 9	(3)+	> 0.69 ps	661.5 1	30.77	(M1+E2)	0.19	25	0.0
2773.92 9	(3)+	> 0.69 ps	1553.8 2	32.69	M1+E2	-0.9	+5-10	0.0
2773.92 9	(3)+	> 0.69 ps	1237.6 1	28.85	M1+E2	0.40	+23-18	0.0
2859.75 10	4	> 0.69 ps	1640.9 2	28.21				
2859.75 10	4	> 0.69 ps	1206.7 1	100.0				
2868.97 10	(4)+	> 0.46 ps	2228.3 2	66.67				
2868.97 10	(4)+	> 0.46 ps	1649.4 2	89.74	M1+E2	-0.4	+3-4	0.0
2868.97 10	(4)+	> 0.46 ps	1216.1 1	100.0				
2935.14 21	(2,3,4)	> 0.48 ps	2292.7 2	100.0				
2935.14 21	(2,3,4)	> 0.48 ps	1398.8 2					
3009.90 20		> 0.69 ps	2368.6 2	100.0				
3051.79 15	(3)+	> 0.69 ps	1398.8 1	100.0				
3051.79 15	(3)+	> 0.69 ps	2410.3 2	17.39	M1 (+E2)	0.09	14	0.0
3051.79 15	(3)+	> 0.69 ps	864.6 2					
3051.79 15	(3)+	> 0.69 ps	1832.6 2	33.33	M1+E2	<-0.6		0.0
3109.79 15		> 0.69 ps	1890.3 2	100.0				
3109.79 15		> 0.69 ps	2468.6 2	42.86				
3125.71 20	(1,2,3)	> 0.65 ps	2484.4 2	100.0				
3155.36 15		> 0.69 ps	1619.1 2	100.0				
3155.36 15		> 0.69 ps	1935.9 2	100.0				
3180.37 15	1	> 0.69 ps	2539.4 3	100				
3180.37 15	1	> 0.69 ps	439.0 5	13				
3180.37 15	1	> 0.69 ps	1644.3 7	63				
3180.37 15	1	> 0.69 ps	3180.2 2	75				
3180.37 15	1	> 0.69 ps	453.7 5	25				
3218.21 20		> 0.69 ps	2576.9 2	100.0				
3300.74 21		> 0.69 ps	1764.4 2	100				
1126.83 10	3/2+	> 188 fs	1126.50 21	100.00 10	M1+E2	+0.47	6	0.0
1126.83 10	3/2+	> 188 fs	981.1 3	2.77 10	(E2)			2.2
1657.07 16	1/2+	> 0.67 ps	1657.5 3	93.9 17	(E2)			9.1
1657.07 16	1/2+	> 0.67 ps	530.03 21	100.0 17	E2			0.0
1657.07 16	1/2+	> 0.67 ps	358.17 23	16.6 8				
1767.36 13	13/2+	> 0.37 ps	649.62 21	100.0 9	E1			2.1
1767.36 13	13/2+	> 0.37 ps	310.3 3	3.4 1	(E2)			0.0
1767.36 13	13/2+	> 0.37 ps	273.38 21	23.1 9	M1+E2	+0.08	6	0.0
1986.08 16	(13/2+)	> 0.42 ps	465.41 25	14.9 10	(E2)			0.0
1986.08 16	(13/2+)	> 0.42 ps	218.67 22	7.5 10	(E2+M1)			0.1
1986.08 16	(13/2+)	> 0.42 ps	868.4 3	100.0 13	(E1)			1.1
2108.20 23	15/2(+)	> 28 fs	311.9 4	100 4	(E2+M1)			0.0
2108.20 23	15/2(+)	> 28 fs	122.3 3	18.4 20				
2108.20 23	15/2(+)	> 28 fs	340.9 5	42.9 20	(E2+M1)			0.0
2126.10 15	(11/2+)	> 114 fs	604.9 3	41 5	(E2+M1)			0.0
2126.10 15	(11/2+)	> 114 fs	669	92	(E2+M1)			0.0
2126.10 15	(11/2+)	> 114 fs	272.28 22	68 9	(E2+M1)			0.0
2126.10 15	(11/2+)	> 114 fs	1981.4 5	32 4	(E2)			8.3
2126.10 15	(11/2+)	> 114 fs	631.8 3	43 4	(E2+M1)			0.0
2126.10 15	(11/2+)	> 114 fs	1008.8 3	100 6	(E1)			8.7
2190.36 20	(1/-)	> 215 fs	897.6 2					
2190.36 20	(1/-)	> 215 fs	2190.8 5	100 3	(M2)			1.3
2190.36 20	(1/-)	> 215 fs	2044.7 7	7 3	(E3)			1.1
2267.20 18	(1/2+)	> 184 fs	291.65 25	6 5	(E2+M1)			0.0
2267.20 18	(1/2+)	> 184 fs	2267.1 3	100 5	(E2)			8.5
2267.20 18	(1/2+)	> 184 fs	975.0 3					
2336.54 21	(15/2-)	> 28 fs	1218.3 3	100 11	(E2)			1.4
2336.54 21	(15/2-)	> 28 fs	816.03 25	80 11	(E3)			0.0

Levels Results

2454.20 22	(15/2+)	> 94 fs	449.91 22	64 5	(E2)	0.0
2454.20 22	(15/2+)	> 94 fs	687.32 23	100 5	(E2+M1)	-0.26 +14-15
2473.2 3	(1/2-, 9/2-)	> 14 fs	368.16 21	100	(E2)	0.0
2580.71 16	(11/2+)	> 13 fs	536.0 3	50 8	(E2+M1)	0.0
2580.71 16	(11/2+)	> 13 fs	1122.9 4	94 17	(E2+M1)	0.0
2580.71 16	(11/2+)	> 13 fs	726.7 3	33 8	(E2+M1)	0.0
2580.71 16	(11/2+)	> 13 fs	2435.30 25	100 19	(E2)	8.8
2659.6 8	(11/2+)	> 156 fs	2514.1 8	100	(E2)	8.9
2718.5 4	(9/2, 11/2)	> 159 fs	1197.5 4	100 5		
2718.5 4	(9/2, 11/2)	> 159 fs	1601.1 5	47 4		
2739.7 4	(1/2-, 9/2-)	> 87 fs	1159.6 3	100	E2	1.5
2782.7 3	(13/2+)	> 51 fs	576.93 25	49 22	(E2+M1)	0.0
2782.7 3	(13/2+)	> 51 fs	1261.1 5	100 22	(E2)	1.3
2810.70 22	(1/2+)	> 76 fs	1201.1 5	85 13	(E2+M1)	0.0
2810.70 22	(1/2+)	> 76 fs	2810.95 23	100 13	(E2)	9.7
2847.5 3	(9/2+)	> 97 fs	2848.4 11	53 17	(E2)	9.8
2847.5 3	(9/2+)	> 97 fs	1354.0 5	50 8	(E2+M1)	0.0
2847.5 3	(9/2+)	> 97 fs	2702.8 12	33 6	(E2+M1)	0.0
2847.5 3	(9/2+)	> 97 fs	1005.0 4	100 11	(E2+M1)	0.0
2847.5 3	(9/2+)	> 97 fs	1389.9 6	42 8	(E2+M1)	0.0
2881.6 4	(7/2+)	> 55 fs	2882.3 11	81 15	(E2+M1)	0.0
2881.6 4	(7/2+)	> 55 fs	1424.5 8	100 50	(E2+M1)	0.0
2881.6 4	(7/2+)	> 55 fs	2737.0 16	31 15	(E2+M1)	0.0
2881.6 4	(7/2+)	> 55 fs	1028.0 5	92 42		
2881.6 4	(7/2+)	> 55 fs	1428.5 6	81 19	(E2+M1)	0.0
2887.47 25	(7/2+, 9/2, 11/2+)	> 24 fs	1392.8 5	82 21		
2887.47 25	(7/2+, 9/2, 11/2+)	> 24 fs	2742.5 17	32 11		
2887.47 25	(7/2+, 9/2, 11/2+)	> 24 fs	1367.0 4	100 21		
2887.47 25	(7/2+, 9/2, 11/2+)	> 24 fs	1769.6 6	61 36		
2887.47 25	(7/2+, 9/2, 11/2+)	> 24 fs	1075.2 5	86 21		
3.694 3	5-	14.6 m 5	3.683 4		M3	1.1
59.03 3	3-	7.2 m 3	59.03 3	100	M3	
76.80 20	4-	2.01 m 7	76.8 2	100	M3	354 7
35.10 10	(7/2+)	> 10 μ s	35.1 1	100	[M2]	264
127.97 12	(1/2+)	\approx 70 s	127.9 6	100	M3	38.4
231.16 5	11/2-	5.50 h 20	231.15 5	100	M4	14.5
756.51 5	11/2-	62.0 s 8	756.51 5	100	M4	0.0
2585.550 20	1(+)	> 0.17 ps	1009.768 18	100 6	D+Q	
2585.550 20	1(+)	> 0.17 ps	2585.49 8	21 3		
2109.79 3	4+	> 0.2 ps	1413.40 9	100 1	E2	0.0
2109.79 3	4+	> 0.2 ps	794.96 3	3.1 10	M1+E2	-0.5 +8-5
2218.31 5	6+	> 0.7 ps	426.89 4	100	M1+E2	-0.22 +17-9
2295.41 3	4+	> 0.27 ps	784.55 3	15.8 3	E1	0.0
2295.41 3	4+	> 0.27 ps	1598.90 6	16.5 6	E2	
2295.41 3	4+	> 0.27 ps	734.94 16	7.4 10	E2	0.0
2295.41 3	4+	> 0.27 ps	980.74 5	100.0 14	M1+E2	-0.47 11
2420.21 7	5+	> 0.7 ps	628.62 6	27.2 11	M1+E2	-1.0 8
2420.21 7	5+	> 0.7 ps	310.75 16	66.8 19	M1+E2	-0.03 6
2420.21 7	5+	> 0.7 ps	202.67 18	100.0 20	M1+E2	-0.06 +12-10
2655.097 24	(3+)	> 0.7 ps	1340.42 2	100	M1+E2	0.0
2692.97 4	2+	> 0.12 ps	1182.06 7	23 6	E1	0.0
2692.97 4	2+	> 0.12 ps	1996.4 3	7.7 19	M1+E2	
2692.97 4	2+	> 0.12 ps	1131.81 8	28.8 19	M1+E2	0.0
2692.97 4	2+	> 0.12 ps	1378.31 7	100 4	E2	0.0
2692.97 4	2+	> 0.12 ps	2693.13 7	32.7 19	E2	
2715.79 7	(5,6)	> 0.7 ps	1401.02 10	100 4		
2715.79 7	(5,6)	> 0.7 ps	924.39 9	40 4		
2808.83 9	6+	> 44 fs	1494.19 9	100 4	E2	0.0
2808.83 9	6+	> 44 fs	1017.09 23	85 4	M1+E2	+3.11 +20-14
2834.58 4	(4+)	> 0.7 ps	539.20 3	100 10	(M1+E2)	0.0

Levels Results

2834.58 4	(4+)	> 0.7 ps	1323.94 11	64 6	(E1+E2)	0.0
2834.58 4	(4+)	> 0.7 ps	724.63 5	36 4	(M1+E2)	0.0
2868.26 5	(3,2+)	> 0.14 ps	2171.70 14	22.2 14		
2868.26 5	(3,2+)	> 0.14 ps	1553.74 19	16.7 14		
2868.26 5	(3,2+)	> 0.14 ps	1357.37 4	100.0 14	D+Q	-0.9 3
2887.98 6	(5,4)	> 0.7 ps	1573.04 8	100 9	D+Q	-1.4 +9-4
2887.98 6	(5,4)	> 0.7 ps	794.96 8	35 4		
2901.34 3	2+	> 0.06 ps	722.70 9	27 3	M1+E2	+1.3 +13-10
2901.34 3	2+	> 0.06 ps	2901.83 8	24 3	E2	
2901.34 3	2+	> 0.06 ps	1389.9 3	100 3		0.0
2901.34 3	2+	> 0.06 ps	2205.1 3	35 3	M1+E2	+1.1 +9-20
2901.34 3	2+	> 0.06 ps	1340.32 3	65 8		0.0
2901.34 3	2+	> 0.06 ps	1586.41 14	19 3		
2950.98 6	3(+)	> 58 fs	2254.71 10	85.4 21	(M1+E2)	-2.1 +12-9
2950.98 6	3(+)	> 58 fs	877.94	22.9 21	(M1+E2)	-0.8 8
2950.98 6	3(+)	> 58 fs	841.08 6	100.0 21	(M1+E2)	+1.3 13
1349	(5-)	> 1 μs	1113	≈14		
1349	(5-)	> 1 μs	870	100		
2530.75 17		> 2 μs	1020.3 3	11.6 5		
2530.75 17		> 2 μs	639.0 1	100 2		
2574.4 4		≥ 2 μs	44.0 2	100		
137.9 3	5-,6-	41.29 d 11	62.2 5		E4	1.2
1211+X		> 16 μs	121			
5934.6 15	(39/2)	> 0.7 ps	491.3	44 12		
5934.6 15	(39/2)	> 0.7 ps	1005.0	100 30		
175.9 3	11/2-	22.6 m 2	174.2 3	100	M4	68.2
753.99 16	11/2-	66 s 2	754.0 2	100	(M4)	0.1
2190.891 25	4+	> 0.14 ps	530.76 5	58.7 7	E2	0.0
2190.891 25	4+	> 0.14 ps	380.66 7	100.0 13	E1	0.0
2477.651 23	0+	> 1.2 ps	2477.8 20	0	(E0)	
2477.651 23	0+	> 1.2 ps	817.62 2	100		
2587.78 3	4+	> 0.12 ps	396.91 7	100.0 9		
2587.78 3	4+	> 0.12 ps	777.59 2	22.6 5		
2707.04 11	(5+)	> 36 fs	383.44 7	100		
2822.52 4	0+	> 0.76 ps	1162.49 3	100		0.0
2825.71 3	(5-)	> 0.51 ps	1015.53 1	100		
3079.34 15	(5,6+,7)	> 7 ps	372.3 1	100		
3124.07 7	7-	> 55 fs	800.42 7	100	E1	0.0
3266.19 8	(4+,6)	> 15 fs	440.48 7	100		
3308.27 10	(6+)	> 38 fs	482.56 9	100		
3343.57 5	(3,4,5,6)	> 190 fs	755.79 4	100		
1682.07 12	4-	> 596 fs	1315.49 5	100		
1754.98 4	0+	> 277 fs	944.8 10	6.3 20		
1754.98 4	0+	> 277 fs	791.67 7	100 5		
1754.98 4	0+	> 277 fs	462.16 6			
1177.812 21	2+	> 2.4 ps	1177.79 4	65.8 14	E2	
1177.812 21	2+	> 2.4 ps	1095.86 3	100 2	E2+M1	+6E+1 +13-3
1177.812 21	2+	> 2.4 ps	910.96 3	75 6	E2	
75.89 5	2+	> 2 ns	75.88 5	100	E2	6.5
147.86 10	8-	96 m 1	39.75 10		E3	7.4
145.3 3	8-	46.3 m 4	8.6		[E3]	≈5.6
6620.8 6	18-	> 1.0 ps	333.8 2	100.0	M1+E2	0.0
7071.3 7	19-	> 1.0 ps	450.5 4	100.0	M1+E2	0.0
7455.3 8	(20-)	> 1.4 ps	384.0 4	100.0	(M1+E2)	0.0
749.1 2	11/2-	85 s 3	721.8 1	100	M4	0.1
1319.658 2	2-	> 3.9 ps	190.215 3	0.21 2	E1	0.0
1319.658 2	2-	> 3.9 ps	1230.6857 3	100	E1	8.1
1468.506 2	4-	> 3.5 ps	1180.3119 15	100 8	E1	8.5
1468.506 2	4-	> 3.5 ps	148.846 2	0.42 2	E2	0.6
1468.506 2	4-	> 3.5 ps	192.371 4	0.43 3		

Levels Results

1468.506	2	4-	> 3.5 ps	170.678	4	0.14	2			
1743.147	14	0+	> 0.75 ps	1663.77	20	100	10	[E2]		1.1
1743.147	14	0+	> 0.75 ps	479.632	14	28.3	17	E1		0.0
1743.147	14	0+	> 0.75 ps	225.659	7	0.66	7			
1057.426	19	3+	> 1525 fs	982.16	2	100	1	M1+E2	+47 +18-10	0.0
1057.426	19	3+	> 1525 fs	808.94	3	20.6	2	M1+E2	-11.7 +16-23	0.0
1376.73	3	2-	> 381 fs	1301.46	3	100	1	E1 (+M2)	-0.08 +5-4	0.0
1376.73	3	2-	> 381 fs	1128.3	10	≤1				
1376.73	3	2-	> 381 fs	319.2	6	1.8	1	E1		0.0
1379.54	4	0+	> 936 fs	1304.27	4	100		E2		1.6
1436.27	3	2+	> 236 fs	1187.76	4	100	1	E2		0.0
1436.27	3	2+	> 236 fs	1436.16	7	13.5	2	E2		1.3
1436.27	3	2+	> 236 fs	288.21	25	8.4	12	[E2]		0.0
1436.27	3	2+	> 236 fs	1361.06	5	36.4	4	M1+E2		0.0
1498.85	5	4-	> 277 fs	1250.34	4	100	3	E1 (+M2)	+0.05 6	0.0
1498.85	5	4-	> 277 fs	441.51	22	7.8	12	[E1]		0.0
1558.35	8	0+	> 409 fs	1483.08	8	100		E2		1.3
1561.45	5	4+	> 222 fs	1312.99	7	74.8	3	M1+E2	+0.28 +34-12	0.0
1561.45	5	4+	> 222 fs	1046.62	5	100	1	[E2]		0.0
1586.56	4	2+	> 347 fs	1511.40	7	33.0	15	M1+E2	-0.24 5	0.0
1586.56	4	2+	> 347 fs	1586.50	5	100	4	[E2]		1.2
1804.97	6	2+	> 208 fs	1729.2	4	20	4	[M1, E2]		0.0
1804.97	6	2+	> 208 fs	734.50	13	44.3	14	E2		0.0
1804.97	6	2+	> 208 fs	816.43	7	100	2	M1+E2	-1.8 +9-8	0.0
1804.97	6	2+	> 208 fs	1805.51	25	33	4	E2		1.0
1804.97	6	2+	> 208 fs	747.8	3	25	4	[M1]		0.0
501.74	19	8+	4.2 m 1	159.59	10			E3		4.0
88.4		(0+)	5.3 h 2	88.4		100		E3		86.2
750.5	4	(11/2-)	55.2 s 5	678.4	3	100		(M4)		0.2
10520.6	14	71/2-	≥ 1.0 ps	896.2	5	100		[E2]		0.0
11450.6	18	75/2-	≥ 1.0 ps	930	1	100		[E2]		0.0
1607.99	9	(2)+	> 0.18 ps	1608.3	3	26	8	[E2]		0.0
1607.99	9	(2)+	> 0.18 ps	1509.04	9	100	11	[M1, E2]		0.0
108.1562	13	1/2-	1.257 m 6	108.159	3	100		E3		31.0
67.20	1	2-	28 m 2	67.200	10	100		E3		477
59.98	3	2-	5.02 h 5	59.98	3	100		E3 (+M4)	<0.017	930 1
105.87	6	6-	67.0 m 7	9.80	5	100		E3		
1505.2		(17/2+)	≥ 15 ns	973.1		100				
139.78	7	6-	36.6 m 3	45.79	6	100		E3		4.5
≈59		(6+)	132 s 4	≈59		100		(M3)		2.4
143.43	17	(1)-	> 4 μs	143.5	2	100		M2		6.5
1623.24	10	3-	> 0.31 ns	1622.1	10	15	5	[E3]		0.0
1623.24	10	3-	> 0.31 ns	1521.32	15	100	8	[E1]		
1623.24	10	3-	> 0.31 ns	1293.42	15	80	9	[E1]		
3263.09	18	16+	> 0.30 ps	560.50	11	100	10	E2		0.0
3263.09	18	16+	> 0.30 ps	388.4	3	22	7	(E2)		
1713.4	7	0+	> 0.97 ps	1632.9		100.0	6	[E2]		
1713.4	7	0+	> 0.97 ps	927.4		12.4	6			
1411.0959	18	4+	> 0.83 ps	515.303	2	19.7	23	E2		0.0
1411.0959	18	4+	> 0.83 ps	134.824	1	5.8	13			
1411.0959	18	4+	> 0.83 ps	862.355	11	81	4	E2		0.0
1411.0959	18	4+	> 0.83 ps	416.352	4	14.1	11	M1+E2	1.7 +11-5	0.0
1411.0959	18	4+	> 0.83 ps	1331.324	15	100	8	E2		0.0
1411.0959	18	4+	> 0.83 ps	589.913	8	3.2	5	E2		0.0
1411.0959	18	4+	> 0.83 ps	293.523	2	1.05	21	M1+E2	1.4 +14-5	0.0
1411.0959	18	4+	> 0.83 ps	1146.998	9	67	4	M1		0.0
1616.8060	19	6+	> 1.7 ps	622.059	5	7.0	9	E2		0.0
1616.8060	19	6+	> 1.7 ps	205.710	1	27	4	E2		0.2
1616.8060	19	6+	> 1.7 ps	1068.079	13	100	16	M1		0.0
1616.8060	19	6+	> 1.7 ps	499.233	3	15.2	18	M1+E2	1.0 +9-5	0.0

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1616.8060	19	6+	> 1.7 ps	688.538	20	8.0	23	[E2]	
1616.8060	19	6+	> 1.7 ps	352.900	3	7.7	9	M1+E2	0.0
1616.8060	19	6+	> 1.7 ps	1352.53	13	≈38		E2	0.0
70	20	5	74.5 s 15	28.85		100			
58.1	(3/2-, 5/2, 7/2-)		> 10 ns	4.2					
58.1	(3/2-, 5/2, 7/2-)		> 10 ns	58					
24.1999	16	1/2-	46 s 2	24.20	2	100		E3	2.5
2502.5	4	(23/2-)	> 0.1 μs	21					
2502.5	4	(23/2-)	> 0.1 μs	355.4	3	100	7	[E2]	0.0
2502.5	4	(23/2-)	> 0.1 μs	291.0	3	14	4	[E1]	0.0
4996.50+X	28	(47/2-)	> 0.19 ps	674.1	1	100	8	Q	
4996.50+X	28	(47/2-)	> 0.19 ps	351.2	3	68	10	D	
5740.6+X	4	(51/2-)	> 0.13 ps	377.0	5	51	13	D	
5740.6+X	4	(51/2-)	> 0.13 ps	743.9	3	100	15	Q	
34.37	22	3(-)	1.41 m 10	34.37	22	100		(M3)	8.6
202.81	12	3+	6.7 m 4	202.81	12	100		[E3]	1.8
29.0	5	1/2-	160 s 10	29.0	5	100		E3	9.4
71.13	8	1/2-	79 s 2	71.10	9	100		E3	475
41.86	4	1-	3.7 m 5	41.86	4	100		M3	2.5
170.83	5	(6)-	142 d 2	126.2		53	38	[E4]	266
170.83	5	(6)-	142 d 2	59.08	2	100	4	M3	
970.1757	24	23/2-	160.4 d 3	333.1	2	0.26	6	[E4]	1.0
970.1757	24	23/2-	160.4 d 3	125.3	2	0.032	8	[M3]	94.3
970.1757	24	23/2-	160.4 d 3	334		≤0.28		[M4]	5.5
970.1757	24	23/2-	160.4 d 3	115.8682	23	100	2	E3	30.7
624.0	5	(9-)	≥ 1 ms	128.0		100		E1	0.1
21.93	9	1/2(-)	29.5 s 9	21.93	9	100		[E3]	5.4
7455.2	17	(57/2-)	> 7 ns	945					
7455.2	17	(57/2-)	> 7 ns	661					
2740.02	15	37/2-	51.4 m 5	214.0	1	100		E3	1.5
2446.09	8	16+	31 y 1	309.50	15	100		M4 (+E5)	0.12 10
2446.09	8	16+	31 y 1	12.7	2	7.2E-6		[E3]	1.4
2446.09	8	16+	31 y 1	587.0	1	41	3	E5	0.2
1105.74	16	25/2-	25.05 d 25	21.01	12	0.254	13	M2	1.1
1105.74	16	25/2-	25.05 d 25	257.37	15	100	17	E3	0.6
1141.552	15	8-	5.53 h 2	500.697	15	29.6	8	M2+E3	-5.3 2
1141.552	15	8-	5.53 h 2	57.538	17	100.0	20	E1	0.2
2537.4	10	(14+)	> 10 μs	52		100		[E2]	58.3
1172.87	18	(8-)	61.5 m 15	506.60	8	100	8	[M2, E3]	0.1
1172.87	18	(8-)	61.5 m 15	50.80	8	56	7	(E1)	0.4
1272.2	4	(8-)	48 s 10	555.0	2	100	25	[M2]	0.1
1272.2	4	(8-)	48 s 10	72.7	2	78	17	[E1]	0.8
2571.0	3	(33/2-)	> 0.69 ps	570.1	2	100		(E2)	0.0
519.577	16	10-	15.84 m 10	356.47	10	1.19	13	M4	4.7
519.577	16	10-	15.84 m 10	184.951	15	100	6	E3	3.2
1834.2	4	7(-)	> 3.1 ps	792.2	2	100	5	D	
1834.2	4	7(-)	> 3.1 ps	297.7	2	43.3	23	(E2)	0.0
1834.2	4	7(-)	> 3.1 ps	234.3	10	18.1	25	D	
2581.6	9	(10+)	> 104 ps	981.3	10	69	20		
2581.6	9	(10+)	> 104 ps	379.4	10	100	37		
1672.0	5		≥ 187 ns	965.3	7	≈100			
221.91	3	1/2-	6.40 m 7	221.93	5	100	8	M3	10.1
221.91	3	1/2-	6.40 m 7	101.6	5	0.0088	8	[E4]	1.3
1431.02	5	2+	> 5 ps	1430.97	6	79	6	E2	0.0
1431.02	5	2+	> 5 ps	1319.84	6	100	6	M1+E2+E0	
1431.02	5	2+	> 5 ps	424.36	15	8.3	19		
197.383	23	11/2+	1.67 m 3	23.54	5	0.018	6	[M2]	8.7
197.383	23	11/2+	1.67 m 3	9.53	6			[E3]	4.0
197.383	23	11/2+	1.67 m 3	131.55	2	100	3	E3	19.8
188.0463	17	8(+)	169 d 8	188.0462	17	3.6		(E5)	246

Levels Results

188.0463 17	8(+) 17	169 d 8	83.3067 8	100 4	M4	1.3
148.2 5	(8+) 5	2.0×10 ⁺⁵ y	48.84 50	100	(E5)	4.8
589.143 16	3/2+	> 1.4 ps	454.92 2	24.1 11	E2	0.0
589.143 16	3/2+	> 1.4 ps	77.37 5	5.8 13	M1	10.7
589.143 16	3/2+	> 1.4 ps	589.06 5	100 1	M1(+E2)	0.0
172.0848 24	6-	18.59 m 4	2.636 3	0.0019 7	(M3)	1.6
172.0848 24	6-	18.59 m 4	15.93 10	100	M3	1.9
204 10	(6-) 10	3.1 h 2	85		[M3]	8.0
267 10		61 s +40-20	267 10	100		
141.2 2	(9/2+)	> 28 ns	49.6 2	100	E1	0.5
49.20 14	7/2-	2.7 m 1	49.2		[M3]	
170.73 7	1/2-	9.9 h 3	170.7 1	100	M4	208
3440.4 6	(14+)	≥ 0.92 ps	401.1	3.1 2	(E2)	0.0
3440.4 6	(14+)	≥ 0.92 ps	148.5	0.83 3		
3440.4 6	(14+)	≥ 0.92 ps	658.5 5	100 3	(E2)	0.0
30.82 2	9/2-	5.81 h 10	30.81 4	100	M3+E4	0.04 2
427.93 4	5/2-,7/2-	> 4.4 ps	428.5 5	46 10		
427.93 4	5/2-,7/2-	> 4.4 ps	152.03 5	25 2		
427.93 4	5/2-,7/2-	> 4.4 ps	397.0 1	100 10		
427.93 4	5/2-,7/2-	> 4.4 ps	211.26 5	13 2	E2(+M1)	>1
531.55 3	5/2-	> 0.26 ps	312.17 4	8 3		
531.55 3	5/2-	> 0.26 ps	531.44 10	100 10		
531.55 3	5/2-	> 0.26 ps	297.83 9	32 6		
531.55 3	5/2-	> 0.26 ps	314.91 4	19 1		
550.04 3	3/2-	> 0.039 ps	480.53 5	42 3		
550.04 3	3/2-	> 0.039 ps	273.6 5	5 1	[M1]	0.3
550.04 3	3/2-	> 0.039 ps	454.75 3	100 7		
550.04 3	3/2-	> 0.039 ps	550.0 3	24 2	M1	0.0
550.04 3	3/2-	> 0.039 ps	316.52 6	1.5 1		
1705.7 1	10-	9.86 m 3	38.9 1	100	M2+E3	0.10 2
74.382 3	3/2-	13.10 h 5	74.379 9	100	M3+E4	0.055 3
3103.8 15	(12+)	≥ 2.1 ps	685	100	(E2)	0.0
180.9 4	5/2+	> 100 ns	180.8 5	100	[E1]	0.0
140.50+Y 10	(8-)	≥ 4 ns	140.5 1	100	E1(+M2)	-0.07 7
432.49 11	(2)+	> 10 ns	139.1 1	97 9	M1(+E2)	<0.8
432.49 11	(2)+	> 10 ns	206.9 1	40 3	[M1,E2]	0.5
432.49 11	(2)+	> 10 ns	89.8 1	11 3	[M1+E2]	7.8
432.49 11	(2)+	> 10 ns	169.8 1	100 11	[E1]	0.1
X+0.0	2-	1.90 h 5	≤1.5		[E3]	
26.1 1	(1)-	1.120 h 3	26.1 1	100	M3	9.9
36.154 25	4+	> 2 μs	36.175 17	100	E1	1.2
376.4 1	11-	3.087 h 12	148.7 1	100	M4	475
624.07 4	(1/2+)	> 5 ps	445.13 8	4.00 27	[M1,E2]	0.0
624.07 4	(1/2+)	> 5 ps	541.64 10	25 3	(M1)	0.0
624.07 4	(1/2+)	> 5 ps	85.15 8	4.1 5	[M1,E2]	9.4
624.07 4	(1/2+)	> 5 ps	494.69 7	4.11 22	(E2)	0.0
624.07 4	(1/2+)	> 5 ps	624.06 6	100 3	(M1+E2)	0.40 22
56.720 5	1-	1.45 m 5	56.71 3	100	E3	2.8
118.7824 18	3-	> 15 ns	34.520 10	4.3 3	M1	24.3
118.7824 18	3-	> 15 ns	118.7817 18	100 12	E1	0.2
168.14 12	(11-)	241 y 9	155.16 12	100	(E5)	
80.238 6	11/2-	10.53 d 4	80.234 7	100	M4	2.1
100 5	11/2-	3.67 h 8	100 5		(M4)	5.0
116.65 8	(7/2)-	> 300 ns	22.8 1	100	(M1)	95.1
34.74 7	7/2-	43 s 5	35.0 1	100	M3	1.7
195.90 10	(9/2)+	> 150 ns	161.2 1	100 15	E1	0.1
195.90 10	(9/2)+	> 150 ns	46.1 2	0.75 12	[E1]	0.6
100.663 20	(9/2)-	> 1 μs	91.11 2	100	E2	7.2
149.78 4	13/2+	4.33 d 3	135.50 3	100	M4	
259.077 23	13/2+	4.010 d 5	19.8	0.24 1	[M4]	872 6.1

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259.077 23	13/2+	4.010 d 5	129.5 2	100 5	M4	19
455.272 7	5/2-	> 10.5 ps	325.18 10	42 5		0.6
455.272 7	5/2-	> 10.5 ps	216.012 9	47 5	M1 (+E2)	0.3
455.272 7	5/2-	> 10.5 ps	255.741 30	47 5	(M1+E2)	0.1
455.272 7	5/2-	> 10.5 ps	356.395 14	100 10	M1	0.5
455.272 7	5/2-	> 10.5 ps	243.855 14	42 3	M1	0.5
544.1 5	(5/2-)	> 2.8 ps	333			
544.1 5	(5/2-)	> 2.8 ps	445.2	56.25		
544.1 5	(5/2-)	> 2.8 ps	305			
544.1 5	(5/2-)	> 2.8 ps	414			
544.1 5	(5/2-)	> 2.8 ps	544.2	100		
678.3 10	5/2-,7/2-	> 72.8 ps	439			
2429.7 4	3-	> 166 fs	1552.9 3	100		
2603.2 2	(1,2,3,4,5)	> 66 fs	1588.1 1	100		
2606.0 1	(2,3,4,5)	> 111 fs	1729.2 1	100		
2711.0 1	3-	> 55 fs	2022.2 1	100 8		
2711.0 1	3-	> 55 fs	2355.3 1	59 8		
399.59 20	13/2+	95.41 m 18	346.5 2	100	M4	7.7
73.3 4	(1/2)+	> 1 μs	60.5 3	100	E1	0.3
68.46 4	2+	47.6 s 14	68.46 4	100	M3	3.1
318.58 4	11/2-	30.5 s 2	56.80 3	72 3	E3	3.2
318.58 4	11/2-	30.5 s 2	318.60 10	100 11	M4	11.6
595.66 4	12-	9.6 h 1	174.91 2	100	M4	227
811.9 15	(12-)	2.272 d 16	115.2 15	100	(M4)	2.4
140.76 5	13/2(+)	11.8 h 2	101.25 4	100	M4	6.1
176.07 4	13/2+	41.6 h 8	122.78 3	100	M4	
298.93 8	13/2+	23.8 h 1	164.97 7	100	M4	348
532.48 10	13/2+	42.67 m 9	374.1 1	100 8	M4+E5	+0.092 15
532.48 10	13/2+	42.67 m 9	118.6	≈8E-5	[M4]	6.0
151.3 3	1+,2+,3+	> 34 ns	151.3 3	100	E1	0.1
365.2+X	(9/2-)	2.11 m 15	X		[E3]	
3687.1 6	(19-)	> 1.18 ps	170.0 5	100 19	(M1)	1.9
3687.1 6	(19-)	> 1.18 ps	297.6 5	52 29		
3887.1 6	(20-)	> 0.83 ps	200.1 5	100	(M1)	1.2
4819.2 7	(23-)	> 1.04 ps	683.0 5	44 19	[E2]	0.0
4819.2 7	(23-)	> 1.04 ps	379.1 5	100 31	(M1)	0.2
394.2 5	(7+)	1.41 h 2	120.1 3	100	M4	2.3
543.6 4	7+	1.87 h 3	260.9 3	100	M4	34.0
2643.10 18	(12-)	3.74 m 3	564.2 1	8.0 14	M4	1.1
2643.10 18	(12-)	3.74 m 3	316.8 2	1.1 4	[M4]	13.6
2643.10 18	(12-)	3.74 m 3	1021.5 2	100 9	[E5]	0.0
328.04 5	5+	> 0.1 ps	288.20 4	100.0 9	M1	0.4
328.04 5	5+	> 0.1 ps	328.03 4	37.2 18	M1	0.3
6535.47 21	(18+)	> 0.5 ps	380.20 5	100	(E2)	0.0
319.31 11	13/2+	42.9 m 9	234.4 1	100	M4	62.2
4573.2 6	14-	> 2.8 ps	762.9 2	100 8	E2	0.0
4573.2 6	14-	> 2.8 ps	530.5 2	59 6	M1	0.0
4702.5 6	(16+)	> 5.5 ps	322.3 2	100	(E1)	0.0
4837.2 6	15-	> 2.8 ps	794.5 3	93 14	E2	0.0
4837.2 6	15-	> 2.8 ps	264.0 3	100 12	M1	0.6
424.8+X 2	(13/2+)	12.2 m 3	424.8 2	100	M4	4.0
629.1 3	13/2+	60.8 s 18	629.1 5	100	M4	0.8
2169.85 8	9-	3.54 h 2	129.1 2	0.08 3	E4	514 9
2169.85 8	9-	3.54 h 2	786.99 6	100	E5	0.1
2169.85 8	9-	3.54 h 2	547.4 2	0.25 8	E5	0.7
2185.88 8	9-	66.93 m 10	622.2 2	0.24 4	E5	0.4
2185.88 8	9-	66.93 m 10	911.74 15	100.0 14	E5	0.0
3175.674 13	9/2(+)	> 402 fs	2605.6 1	100 3	[M2]	0.0
3175.674 13	9/2(+)	> 402 fs	447.81 2	44 3	(M1)	0.1
3175.674 13	9/2(+)	> 402 fs	1542.32 2	91 3	(E2)	0.0

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3175.674	13	9/2 (+)	> 402 fs	835.73	2	62	3	(E1)	0.0
3225.542	20	11/2+	> 333 fs	2655.32	7	8.7	7	(E3)	0.0
3225.542	20	11/2+	> 333 fs	1592.22	2	100.0	7	M1	0.0
3384.579	13	9/2+	> 284 fs	656.62	2	100.0	19	M1+E2	0.0
3384.579	13	9/2+	> 284 fs	1044.71	2	37.0	19	E1	0.0
3384.579	13	9/2+	> 284 fs	2486.2	5			[E3]	0.0
3384.579	13	9/2+	> 284 fs	761.4	5			[E2]	0.0
3384.579	13	9/2+	> 284 fs	1751.12	2	48.2	19	E2	0.0
3429.843	18	(9/2+)	> 437 fs	701.88	3	63.9	16	[M1]	0.0
3429.843	18	(9/2+)	> 437 fs	1796.51	2	100.0	16	[E2]	0.0
3476.364	13	9/2 (+)	> 388 fs	1136.42	2	86.4	16	[E1]	0.0
3476.364	13	9/2 (+)	> 388 fs	748.40	2	43.2	14	[M1]	0.0
3476.364	13	9/2 (+)	> 388 fs	1843.09	2	100.0	21	[E2]	0.0
3509.849	16	11/2+	> 208 fs	782.00	2	49.3	9	M1	0.0
3509.849	16	11/2+	> 208 fs	1876.44	2	100.0	9	(M1)	0.0
3620.496	21	11/2+	> 243 fs	1987.13	2	100		M1+E2	0.0
3650.09	3	9/2-,11/2-	> 312 fs	2016.72	3	100			
3673.82	3	9/2,11/2	> 263 fs	2040.45	3	100			
3711.40	3	(7/2+)	> 118 fs	1087.58	3	39.3	16	[M1]	0.0
3711.40	3	(7/2+)	> 118 fs	1048.90	5	24.6	16	[M1]	0.0
3711.40	3	(7/2+)	> 118 fs	3141.2	1	100.0	16	[E1]	0.0
3726.094	22	(5/2+,7/2+)	> 201 fs	2093.0	5				
3726.094	22	(5/2+,7/2+)	> 201 fs	998.20	2	100	4	[M1,E2]	0.0
3726.094	22	(5/2+,7/2+)	> 201 fs	1386.16	6	17	4	[E1]	0.0
3726.094	22	(5/2+,7/2+)	> 201 fs	1063.71		52	5	[M1]	0.0
3828.997	18	9/2+,11/2+	> 111 fs	1101.21	2	57.8	16	(M1+E2)	0.0
3828.997	18	9/2+,11/2+	> 111 fs	444.31	2	100.0	16	(M1+E2)	0.0
3869.37	5	9/2+,11/2+,13/2+	> 104 fs	2236.00	5	100		Q,D	
3903.33	10	(13/2+)	> 17 fs	1175.43	10	100		[E2]	0.0
4064.02	8	(9/2+,11/2+,13/2+)	> 37 fs	1336.12	8	100		Q,D	
3919.966	13	6-	> 690 fs	722.252	8	100		M1+E2	+0.31 7
3919.966	13	6-	> 690 fs	211.51	2	82	5	M1 (+E2)	+0.04 +7-6
3946.578	14	4-	> 430 fs	238.22	3	25.3	18	[M1+E2]	-0.06 6
3946.578	14	4-	> 430 fs	748.845	12	100	7	[M1+E2]	+0.072 25
3946.578	14	4-	> 430 fs	471.498	14	26.3	19	[M1+E2]	0.1
3995.438	13	4-	> 690 fs	797.741	10	29.7	12	[M1+E2]	+0.34 5
3995.438	13	4-	> 690 fs	1380.889	12	100		[M1 (+E2)]	+0.000 +31-21
4037.443	14	7-	> 690 fs	117.53	13	11	3	[M1,E2]	4.6
4037.443	14	7-	> 690 fs	839.734	9	100		[E2]	0.0
4125.347	12	5-	> 490 fs	927.650	8	100.0	25	[M1+E2]	0.0
4125.347	12	5-	> 490 fs	179.5	6	0.92	26	[M1,E2]	1.2
4125.347	12	5-	> 490 fs	650.207	14	25.3	13	[M1+E2]	0.0
4125.347	12	5-	> 490 fs	164.34	20	4.9	7	[M1,E2]	1.6
4125.347	12	5-	> 490 fs	416.79	6	5.0	9	[M1+E2]	+0.1 +8-4
4206.277	14	6-	> 690 fs	1008.558	10	100		[M1+E2]	
4206.277	14	6-	> 690 fs	497.90	4	20.6	24	[M1+E2]	
4261.871	13	4-	> 520 fs	1064.15	2	4.4	6	[M1+E2]	
4261.871	13	4-	> 520 fs	786.79		58	2	[M1+E2]	
4261.871	13	4-	> 520 fs	1647.38	2	100	4	[M1+E2]	
4261.871	13	4-	> 520 fs	553.414	8	49	4	[M1+E2]	
4383.285	17	6-	> 690 fs	257.7	5	0.67	25		
4383.285	17	6-	> 690 fs	1185.571	13	100	11	[M1+E2]	
4383.285	17	6-	> 690 fs	176.8	5	0.85	25		
4383.285	17	6-	> 690 fs	463.30	10	4.1	7	[M1+E2]	-0.69 +15-19
4423.647	15	6+	> 110 fs	1225.916	13	100		[E1+M2]	
4423.647	15	6+	> 110 fs	715.23	2	8.6	11	[E1+M2]	
4680.266	22	7-	> 690 fs	473.98	5	40	11	[M1+E2]	
4680.266	22	7-	> 690 fs	760.30	2	100		[M1+E2]	
4711.817	21	4-	> 340 fs	2097.27	2	100		[M1+E2]	
4711.817	21	4-	> 340 fs	1236.79	4	29	4	[M1+E2]	

Levels Results

4860.78 6	8+	> 22 fs	823.28 11	34 6		
4860.78 6	8+	> 22 fs	250.00 9	100		
4867.91 4	7+	> 97 fs	444.15 10	73 15		
4867.91 4	7+	> 97 fs	830.55 4	38 6	[M1+E2]	
4867.91 4	7+	> 97 fs	386.7 3	26 13	[M1+E2]	
4867.91 4	7+	> 97 fs	484.6 3	14 5		
4867.91 4	7+	> 97 fs	257.06 5	100 15		
4868.35 5	0+	> 312 fs	782.83 2			
4868.35 5	0+	> 312 fs	4870 3		E0	
4962.428 21	4(-), 5(+)	> 440 fs	638.48 2	43 8		
4962.428 21	4(-), 5(+)	> 440 fs	1764.71 3	100	[M1+E2]	+0.78 +22-32
5085.470 24	7-	> 229 fs	879.19 2	100	[M1+E2]	
5085.470 24	7-	> 229 fs	702.1 10	13 5		
5092.99 3	8+	> 690 fs	482.24 2	100		
5092.99 3	8+	> 690 fs	232.2 3	7.6 18		
5193.428 25	5+	> 319 fs	769.78 2	100 13		
5193.428 25	5+	> 319 fs	1995.5 5	29.2 23		
5193.428 25	5+	> 319 fs	869.43 20	96 10		
5195.37 10	7+	> 690 fs	1275.5 5	7.5 31		
5195.37 10	7+	> 690 fs	584.62 15	36 6		
5195.37 10	7+	> 690 fs	771.73 20	100 14		
5195.37 10	7+	> 690 fs	334.5 4	2.6 9		
5195.37 10	7+	> 690 fs	715.0 6	2.20 22		
5195.37 10	7+	> 690 fs	327.44 20	18.7 22		
5241.1 3	0+	> 690 fs	5241 3		E0	
5241.1 3	0+	> 690 fs	2626.6 3		[E3]	
5280.47 4	0-	> 319 fs	1050.90 4	100		
5280.47 4	0-	> 319 fs	438.83 5	27.6 15		
5317.041 18	(3)+	> 690 fs	993.105 12	100		
5317.041 18	(3)+	> 690 fs	2702.42 3	23 3		
5599.48 6	0-	> 159 fs	1369.83 7	100		
5599.48 6	0-	> 159 fs	757.93 7	41 3		
5799.41 9		> 690 fs	2324.32 9			
6101.1 10	(5+)	> 690 fs	2626			
271 5	(10-)	240 s 3	102.0 20	100	(E3)	155
667 4	(1/2+)	24.70 m 15	667		[M4]	0.7
846.35 18	1/2+	58.5 m 11	846.3 3	100	M4	0.2
650.57 10	7+	> 1.0 ns	650.60 16	100	E2	0.0
650.57 10	7+	> 1.0 ns	140.08 12	52 16	M1	4.0
936.27 6	3+	> 1.7 ps	303.1 1	1.0 1		
936.27 6	3+	> 1.7 ps	936.3 2	1.7 4		
936.27 6	3+	> 1.7 ps	873.3 2	100 3		
1539.39 7	2+, 3+	> 1.2 ps	1476.5 2	12.0 8		
1539.39 7	2+, 3+	> 1.2 ps	614.22 15	7.4 5		
1539.39 7	2+, 3+	> 1.2 ps	937.8 2	3.0 2		
1539.39 7	2+, 3+	> 1.2 ps	602.88 15	20.3 12		
1539.39 7	2+, 3+	> 1.2 ps	906.32 15	100.0 6		
1539.39 7	2+, 3+	> 1.2 ps	470.06 15	3.0 2		
1347.50+X	(25/2:29/2) (-)	36.9 s 6	X			
310 2	(13/2+)	4.17 m 5	238 1	100	M4	65.2
423.41 22	13/2+	8.96 m 12	417.8 2	100	M4	4.8
641.64 14	13/2+	45 s 2	641.5 2	100	M4	0.8
641.64 14	13/2+	45 s 2	2.3 2	3.1E-11 2	[E3]	4E1
2158.3 6		> 200 ns	182.5	100		
2930 10	(18+)	45.1 s 6	45 10	100	[E4]	
657.1 5	(13/2+)	> 10 s	657.1 5	100	[M4]	
130.141 18	9/2+	> 0.3 ns	68.74 3	64 12	M1+E2	0.45
130.141 18	9/2+	> 0.3 ns	6.5 3	1.0E2 3	[E1]	41.2
130.141 18	9/2+	> 0.3 ns	100.27 3	93 18	E2	9.6
1009.601 14	2+	≥ 0.8 ps	835.59 8	3.7 4	E2	0.0

Levels Results

1009.601 14	2+	≥ 0.8 ps	228.23 5	0.41 7	E0+E2+M1	1.1
1009.601 14	2+	≥ 0.8 ps	1009.59 2	68 4	E2	0.0
1009.601 14	2+	≥ 0.8 ps	374.67 2		(E2)	0.0
1009.601 14	2+	≥ 0.8 ps	183.90 11	0.20 7	M1+E2	2.1
1009.601 14	2+	≥ 0.8 ps	956.38 2	100 8	M1+E2	6.1 4
1009.601 14	2+	≥ 0.8 ps	332.07 5	2.96 7	[E2]	0.1
73.92+X	(0-)	1.159 m 11	<10			
851.74 3	2+	≥ 1.74 ps	708.3 2	31 4	[E2]	0.0
851.74 3	2+	≥ 1.74 ps	851.70 10	100 6	[E2]	0.0
851.74 3	2+	≥ 1.74 ps	41.82 11	0.24 12	[E2]	863 1
851.74 3	2+	≥ 1.74 ps	808.20 10	60 6	E0+E2	0.45 9
0.0760 4	1/2+	≈ 26 m	0.0765 4	100	E3	>1E1
0.0+X	(5/2+)	> 0.25 μ s	1600.3			
0.0+X	(5/2+)	> 0.25 μ s	708.2			
48.603 9	5-	141 y 2	48.63 5	100	E4	7.0
878.8+Y 10	(19/2-)	≥ 10 ns	28	100	[E1]	2.6