

Search parameters:  
1 S <=T(level)<= 1E100 GY

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## Level and Gamma Information

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

Nucleus	E <sub>level</sub> (keV)	Jπ	T <sub>1/2</sub>
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 <sup>+6</sup> y 4
11BE	0	1/2+	13.76 s 7
10B	0.0	3+	STABLE
11B	0	3/2-	STABLE
13B	3534.6 31		> 0.2 ps
10C	0.0	0+	19.290 s 12
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
15C	0.0	1/2+	2.449 s 5
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	0.0	2-	7.13 s 2
16N	6840	GE 2	> 140 keV
17N	0.0	1/2-	4.173 s 4
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	0.0	5/2+	26.88 s 5
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
20O	0.0	0+	13.51 s 5
21O	0.0	(5/2+)	3.42 s 10
22O	0.0	0+	2.25 s 9
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

## Levels Results

18F	0.0	1+	109.77 m 5
19F	0.0	1/2+	STABLE
19F	6500.0 9	11/2+	> 2.4 eV
20F	0.0	2+	11.07 s 6
21F	0.0	5/2+	4.158 s 20
22F	0.0	(4+)	4.23 s 4
23F	0.0	(5/2+)	2.23 s 14
18NE	0.0	0+	1672 ms 8
19NE	0.0	1/2+	17.22 s 2
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
24NE	0	0+	3.38 m 2
34NE	0	0+	> 60 ns
21NA	0.0	3/2+	22.49 s 4
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
26NA	0	3+	1.07128 s 25
37NA	0		> 60 ns
22MG	0.0	0+	3.8755 s 12
23MG	0.0	3/2+	11.3046 s 45
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
29MG	0	3/2+	1.30 s 12
32MG	1058 2	0+	> 7 ns
24AL	0	4+	2.053 s 4
25AL	0	5/2+	7.183 s 12
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 <sup>+5</sup> y 24
26AL	228.305 13	0+	6.3460 s 8
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
30AL	0	3+	3.62 s 6
40AL	0.0		> 260 ns
42AL	0		> 170 ns
43AL	0		> 170 ns
26SI	0.0	0+	2.2453 s 7
27SI	0.0	5/2+	4.15 s 4
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
33SI	0	3/2+	6.11 s 21
34SI	0.0	0+	2.77 s 20
43SI	0		> 60 ns

## Levels Results

29P	0	1/2+	4.142 s 15
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	0	1+	12.43 s 10
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
36P	0	4-	5.6 s 3
37P	0	(1/2+)	2.31 s 13
45P	0.0		> 200 ns
30S	0	0+	1.178 s 5
30S	3667.5 10		> 1 ps
31S	0.0	1/2+	2.5534 s 18
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
39S	0	(7/2) -	11.5 s 5
40S	0	0+	8.8 s 22
41S	0.0		1.99 s 5
42S	0	0+	1.016 s 15
33CL	0	3/2+	2.511 s 4
34CL	0.0	0+	1.5266 s 4
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+	$3.013 \times 10^{+5}$ 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
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
42CL	0	(2-)	6.8 s 3
43CL	0	(1/2+)	3.13 s 9
49CL	0.0		$\geq 170$ ns
34AR	3873 3	0+	> 187 fs
35AR	0	3/2+	1.7756 s 10
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

			Levels Results
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
45AR	0.0	5/2-, 7/2-	21.48 s 15
46AR	0.0	0+	8.4 s 6
47AR	0	(3/2) -	1.23 s 3
53AR	0		> 620 ns
37K	0.0	3/2+	1.225 s 7
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-	$1.248 \times 10^{+9}$ 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
47K	0	1/2+	17.50 s 24
48K	0.0	1 (-)	6.8 s 2
49K	0.0	(1/2+, 3/2+)	1.26 s 5
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-	$9.94 \times 10^{+4}$ 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
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
48CA	0.0	0+	$2.9 \times 10^{+9}$ y +42-11
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
50CA	0.0	0+	13.45 s 5

## Levels Results

<b>51CA</b>	0.0	3/2 (-)	10.0 s 8
<b>52CA</b>	0	0+	4.6 s 3
<b>57CA</b>	0		> 620 ns
<b>42SC</b>	616.28 6	7+	61.7 s 4
<b>42SC</b>	2269.14 4	2+	> 70 fs
<b>42SC</b>	2433.62 18	4+	> 0.14 ps
<b>42SC</b>	2910.3 7	4+	> 0.8 ps
<b>42SC</b>	2995.53 7	4+	> 0.14 ps
<b>42SC</b>	3224.01 20	(5+)	> 0.21 ps
<b>42SC</b>	3321.36 10	(1+, 2, 3+)	> 0.14 ps
<b>42SC</b>	3718.6 5	(5+)	> 70 fs
<b>43SC</b>	0.0	7/2-	3.891 h 12
<b>43SC</b>	2383.1 4	3/2 (+)	> 0.31 ps
<b>43SC</b>	3142.05 12	13/2+	> 0.55 ps
<b>44SC</b>	0.0	2+	4.0420 h 25
<b>44SC</b>	271.241 10	6+	58.61 h 10
<b>44SC</b>	531.42 14	3 (-)	> 3.8 ps
<b>45SC</b>	0.0	7/2-	STABLE
<b>45SC</b>	2106.3 3	15/2-	> 1.4 ps
<b>46SC</b>	0.0	4+	83.79 d 4
<b>46SC</b>	142.528 7	1-	18.75 s 4
<b>47SC</b>	0.0	7/2-	3.3492 d 6
<b>47SC</b>	2148.2 5		> 2 ps
<b>48SC</b>	0.0	6+	43.71 h 9
<b>49SC</b>	0.0	7/2-	57.18 m 13
<b>49SC</b>	3991.0 9	1/2+	≥ 0.7 ns
<b>50SC</b>	0.0	5+	102.5 s 5
<b>51SC</b>	0.0	(7/2) -	12.4 s 1
<b>52SC</b>	0.0	3 (+)	8.2 s 2
<b>53SC</b>	0.0	(7/2 -)	2.6 s 4
<b>42TI</b>	1854.2 12	0+	> 0.14 ps
<b>42TI</b>	2676.6 8	4+	> 1.4 ps
<b>44TI</b>	0.0	0+	59.1 y 3
<b>44TI</b>	1904.4 8	0+	> 0.5 ps
<b>45TI</b>	0.0	7/2-	184.8 m 5
<b>45TI</b>	1565.4 7	1/2+	> 2.8 ps
<b>46TI</b>	0.0	0+	STABLE
<b>47TI</b>	0.0	5/2-	STABLE
<b>47TI</b>	2364.9 2	1/2+	> 1.53 ps
<b>47TI</b>	2682.30 5	11/2 (-)	> 2.10 ps
<b>48TI</b>	0.0	0+	STABLE
<b>48TI</b>	4564.8 3	8 (+)	> 3.5 ps
<b>48TI</b>	4956.6 4	(4+, 5, 6-)	> 1.0 ps
<b>48TI</b>	6103.2 7	10 (+), 8	> 1.4 ps
<b>48TI</b>	7427.9 7	9, 7	> 0.7 ps
<b>49TI</b>	0.0	7/2-	STABLE
<b>50TI</b>	0.0	0+	STABLE
<b>50TI</b>	4172.003 19	3+	> 0.83 ps
<b>51TI</b>	0.0	3/2-	5.76 m 1
<b>52TI</b>	0.0	0+	1.7 m 1
<b>53TI</b>	0.0	(3/2) -	32.7 s 9
<b>54TI</b>	0.0	0+	2.1 s 10
<b>55TI</b>	0.0	(1/2) -	1.3 s 1
<b>62TI</b>	0	0+	> 620 ns
<b>63TI</b>	0		> 360 ns
<b>47V</b>	0.0	3/2-	32.6 m 3
<b>48V</b>	0.0	4+	15.974 d 3
<b>49V</b>	0.0	7/2-	330 d 15
<b>50V</b>	0.0	6+	$2.65 \times 10^{+17}$ y +16-18
<b>50V</b>	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
55V	0.0	(7/2-)	6.54 s 15
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 <sup>+18</sup> 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
57CR	0.0	(3/2)-	21.1 s 10
58CR	0.0	0+	7.0 s 3
59CR	0.0	(1/2-)	0.74 s 28
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 <sup>+6</sup> 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

## Levels Results

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
58MN	0.0	1+	3.0 s 1
58MN	71.77 5	4+	65.4 s 5
59MN	0.0	5/2-	4.59 s 5
60MN	271.80 10	4+	1.77 s 2
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
63FE	0.0	(5/2-)	6.1 s 6
64FE	0.0	0+	2.0 s 4
65FE	402 5	(9/2+)	1.12 s 15
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	0.0	7/2-	27.4 s 5
63CO	995.05 13	3/2-	> 10 ps
64CO	107 20		> 280 ms

Levels Results				
65CO	0.0	(7/2) -	1.16	s 3
66CO	642	(8-)	> 100	μs
68CO	0.0+X	1+	1.6	s 3
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	
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	
67NI	0	(1/2) -	21 s 1	
68NI	0.0	0+	29 s 2	
69NI	0.0	(9/2+)	11.4 s 3	
69NI	321 2	(1/2-)	3.5 s 4	
70NI	0.0	0+	6.0 s 3	
71NI	0.0	(9/2+)	2.56 s 3	
71NI	498.5 6	(1/2-)	2.3 s 3	
72NI	0.0	0+	1.57 s 5	
58CU	0.0	1+	3.204 s 7	
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	

## Levels Results

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
70CU	242.6 5	1+	6.6 s 2
71CU	0.0	3/2 (-)	19.4 s 16
72CU	0.0	(2)	6.63 s 3
73CU	0.0	3/2-	4.2 s 3
74CU	0.0	2-	1.63 s 5
75CU	0.0	5/2 (-)	1.224 s 3
76CU	0+X		1.27 s 30
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
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 <sup>18</sup> 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
73ZN	0.0	1/2-	24.5 s 2
74ZN	0.0	0+	95.6 s 12
75ZN	0.0	(7/2+)	10.2 s 2
76ZN	0.0	0+	5.7 s 3
77ZN	0.0	7/2+	2.08 s 5

## Levels Results

77ZN	772.440	15	1/2-	1.05 s 10
78ZN	0.0		0+	1.47 s 15
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
72GA	0		3-	14.10 h 2
73GA	0.0		1/2-	4.86 h 3
74GA	0.0		(3-)	8.12 m 12
74GA	59.571	14	(0+)	9.5 s 10
75GA	0.0		3/2-	126 s 2
76GA	0.0		2(-)	30.5 s 4
77GA	0.0		3/2(-)	13.2 s 2
78GA	0.0		(3+)	5.09 s 5
79GA	0.0		3/2(-)	2.848 s 3
80GA	0		6(-)	1.9 s 1
80GA	22.4		3(-)	1.3 s 2
81GA	0		(5/2-)	1.217 s 5
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

## Levels Results

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
76GE	0.0	0+	$1.926 \times 10^{21}$ y 94
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	0.0	(1/2)-	18.98 s 3
79GE	185.95 4	(7/2+)	39.0 s 10
80GE	0.0	0+	29.5 s 4
81GE	0	(9/2+)	7.6 s 6
81GE	679.14 4	(1/2+)	7.6 s 6
82GE	0.0	0+	4.0 s 7
83GE	0.0	(5/2)+	1.85 s 6
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
80AS	0.0	1+	15.2 s 2
81AS	0	3/2-	33.3 s 8
82AS	0	(2-)	19.1 s 5
82AS	131.6 5	(5-)	13.6 s 4
83AS	0.0	(5/2-)	13.4 s 4
84AS	0.0	(3-)	4.2 s 5
85AS	0	(3/2-)	2.021 s 12
68SE	0	0+	35.5 s 7
69SE	0.0	1/2-	27.4 s 2
70SE	0.0	0+	41.1 m 3
71SE	0.0	(5/2-)	4.74 m 5
72SE	0	0+	8.40 d 8
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

## Levels Results

77SE	0.0	1/2-	STABLE
77SE	161.9223 10	7/2+	17.36 s 5
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+	$3.27 \times 10^{+5}$ 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	0	0+	$9.6 \times 10^{+19}$ y 10
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
86SE	0.0	0+	14.3 s 3
87SE	0.0	(3/2+)	5.50 s 14
88SE	0.0	0+	1.53 s 6
94SE	0.0	0+	> 150 ns
95SE	0		> 392 ns
70BR	2292.3 8	9+	2.2 s 2
71BR	0.0	(5/2)-	21.4 s 6
72BR	0	1+	78.6 s 24
72BR	100.76 15	(3-)	10.6 s 3
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
76BR	102.578 28	(4)+	1.31 s 2
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
79BR	207.61 9	9/2+	4.85 s 4
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
88BR	0.0	(2-)	16.34 s 8
89BR	0	(5/2-)	4.357 s 22
90BR	0		1.91 s 1
95BR	0.0		$\geq 150$ ns
96BR	0.0		$\geq 150$ ns
72KR	0.0	0+	17.1 s 2

## Levels Results

73KR	0.0	(3/2) -	27.3 s 10
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
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	190.64 4	1/2-	13.10 s 3
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
91KR	0	5/2 (+)	8.57 s 4
92KR	0.0	0+	1.840 s 8
93KR	0	1/2+	1.286 s 10
101KR	0		> 635 ns
75RB	0	3/2 (-)	19.0 s 12
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
92RB	0.0	0-	4.48 s 3

## Levels Results

93RB	0	5/2-	5.84 s 2
94RB	0.0	3 (-)	2.702 s 5
76SR	0.0	0+	7.89 s 7
77SR	0.0	5/2 (+)	9.0 s 2
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
83SR	259.15 9	1/2-	4.95 s 12
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
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
95SR	0.0	1/2+	23.90 s 14
96SR	0.0	0+	1.07 s 1
107SR	0		> 395 ns
78Y	0+X	(5+)	5.8 s 6
79Y	0.0	(5/2+)	14.8 s 6
80Y	0	(4-)	30.1 s 5
80Y	228.5 1	(1-)	4.8 s 3
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
82Y	0	1+	8.30 s 20
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
84Y	67.0 2	1+	4.6 s 2
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

## Levels Results

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	908.97 3	9/2+	15.663 s 5
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
96Y	0	0-	5.34 s 5
96Y	1140 30	8+	9.6 s 2
97Y	0.0	(1/2-)	3.75 s 3
97Y	667.52 23	(9/2)+	1.17 s 3
98Y	465.7 7	(7+, 6+)	2.32 s 8
99Y	0.0	(5/2+)	1.484 s 7
78ZR	0	0+	> 170 ns
80ZR	0.0	0+	4.6 s 6
81ZR	0.0	(3/2-)	5.5 s 4
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
85ZR	292.2 3	(1/2-)	10.9 s 3
86ZR	0.0	0+	16.5 h 1
87ZR	0.0	9/2+	1.68 h 1
87ZR	335.84 19	1/2-	14.0 s 2
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
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	0.0	0+	$2.0 \times 10^{+19}$ y 4
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

## Levels Results

98ZR	0.0	0+	30.7 s 4
99ZR	0.0	(1/2+)	2.1 s 1
100ZR	0.0	0+	7.1 s 4
101ZR	0	(3/2+)	2.3 s 1
102ZR	0	0+	2.9 s 2
103ZR	0.0	(5/2-)	1.3 s 1
104ZR	0.0	0+	1.2 s 3
83NB	0.0	(5/2+)	3.9 s 2
84NB	0.0	(1+,2+,3+)	9.8 s 9
85NB	0.0	(9/2+)	20.5 s 12
85NB	0+Z		12 s 5
85NB	69+Y	(1/2-,3/2-)	3.3 s 9
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
90NB	124.67 25	4-	18.91 s 6
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	0	1+	2.86 s 6
98NB	84 4	(5)+	51.1 m 4
99NB	0.0	9/2+	15.0 s 2
99NB	365.27 8	1/2-	2.5 m 2
100NB	0.0	1+	1.4 s 2
100NB	314 23	(5)+	2.99 s 11
101NB	0.0	(5/2+)	7.1 s 3
102NB	0.0	(4+)	4.3 s 4
102NB	0.0+X	1+	1.3 s 2
103NB	0.0	(5/2+)	1.5 s 2
104NB	0.0	(1+)	4.9 s 3
105NB	0	(5/2+)	2.91 s 5
106NB	0.0	(1-)	1.02 s 5
81MO	0		> 450 ns
84MO	0.0	0+	2.3 s 3
85MO	0.0	(1/2-)	3.2 s 2

## Levels Results

86MO	0.0	0+	19.1 s 3
87MO	0.0	(7/2+)	14.1 s 3
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
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
106MO	0.0	0+	8.73 s 12
107MO	0.0	(5/2+)	3.5 s 5
108MO	0.0	0+	1.09 s 2
87TC	0	(9/2+)	2.2 s 2
88TC	X	(5+, 6+, 7+)	6.4 s 8
88TC	Y	(2+, 3+)	5.8 s 2
89TC	0.0	(9/2+)	12.8 s 9
89TC	62.6 5	(1/2-)	12.9 s 8
90TC	0	(8+)	49.2 s 4
90TC	144.1 17	1+	8.7 s 2
91TC	0	(9/2)+	3.14 m 2
91TC	139.3 3	(1/2)-	3.3 m 1

## Levels Results

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+	$\geq$ 589 fs
95TC	1084.97 4	(5/2)+	$\geq$ 347 fs
95TC	1214.55 4	9/2-	$\geq$ 624 fs
95TC	1416.41 5	3/2, 5/2 (-)	$\geq$ 492 fs
95TC	1958.98 10	(5/2-)	$\geq$ 596 fs
95TC	2212.90 13	(17/2-)	$\geq$ 1.4 ps
95TC	3516.0 3	25/2+	> 5 ps
96TC	0.0	7+	4.28 d 7
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-	$\geq$ 0.76 ps
97TC	772.68 6	13/2+	$\geq$ 0.35 ps
97TC	832.80 6	11/2 (+)	$\geq$ 0.35 ps
97TC	855.45 3	7/2+	$\geq$ 0.37 ps
97TC	861.90 8	(9/2+)	$\geq$ 0.38 ps
97TC	1049.22 7	3/2-	$\geq$ 0.21 ps
97TC	1240.02 7	(7/2-)	$\geq$ 0.26 ps
97TC	1441.1 10		$\geq$ 0.21 ps
97TC	1733.3 4	(3/2+, 5/2, 7/2-)	$\geq$ 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
100TC	0.0	1+	15.65 s 12
101TC	0.0	9/2+	14.22 m 1
102TC	0	1+	5.28 s 15
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
107TC	0.0	(3/2-)	21.2 s 2
108TC	0.0	(2)+	5.17 s 7
85RU	0		> 450 ns
86RU	0	0+	> 438 ns
88RU	0.0	0+	1.2 s +3-2
89RU	0	(9/2+)	1.32 s 3
90RU	0.0	0+	11.7 s 9
91RU	0.0	(9/2+)	8.0 s 4
91RU	0.0+X	(1/2-)	7.6 s 8
92RU	0.0	0+	3.65 m 5
93RU	0	(9/2)+	59.7 s 6
93RU	734.40 10	(1/2)-	10.8 s 3
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-	$\geq$ 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

## Levels Results

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
110RU	0.0		0+	12.04 s 17
111RU	0.0		5/2+	2.12 s 7
112RU	0.0		0+	1.75 s 7
91RH	0.0		(9/2+)	1.47 s 22
91RH	172.9	4	(1/2-)	1.46 s 11
92RH	0.0		(GE6+)	4.66 s 25
93RH	0.0		(9/2+)	12.2 s 7
94RH	0.0		(4+)	70.6 s 6
94RH	X+0.0		(8+)	25.8 s 2
95RH	0.0		9/2+	5.02 m 10
95RH	543.3	3	(1/2)-	1.96 m 4
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 μs
108RH	0.0		1+	16.8 s 5
108RH	0.0+X		(5+)	6.0 m 3
109RH	0.0		7/2+	80.8 s 7
110RH	0.0		(1+)	3.35 s 12

## Levels Results

110RH	0.0+Y	(6+)	28.0 s 13
111RH	0.0	(7/2+)	11 s 1
112RH	0.0	(1+)	3.6 s 3
112RH	0.0+Y	(6+)	6.76 s 12
113RH	0.0	(7/2+)	2.80 s 12
114RH	0.0	1+	1.85 s 5
114RH	0.0+X 3	(7-)	1.85 s 5
115RH	0.0	(7/2+)	0.99 s 5
122RH	0		> 300 ns
92PD	0.0	0+	1.0 s +3-2
93PD	0.0	(9/2+)	1.00 s 9
94PD	0	0+	9.0 s 5
95PD	0.0	(9/2+)	5 s 3
95PD	1875.13 14	(21/2+)	13.3 s 3
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
107PD	214.6 3	11/2-	21.3 s 5
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	0.0	(1/2)+	25 s 2
115PD	89.21 16	(7/2-)	50 s 3
116PD	0	0+	11.8 s 4
117PD	0.0	(5/2+)	4.3 s 3
118PD	0.0	0+	1.9 s 1
124PD	62.2+X 17		> 20 $\mu$ s
95AG	0.0	(9/2+)	1.75 s 12
96AG	0.0+X	(8)+	4.40 s 6
96AG	0.0+Y	(2+)	6.9 s 6
97AG	0.0	(9/2+)	25.5 s 3
98AG	0.0	(6+)	47.5 s 3
99AG	0.0	(9/2)+	124 s 3
99AG	506.2 4	(1/2-)	10.5 s 5
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
101AG	274.1 3	(1/2)-	3.10 s 10
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
103AG	134.45 4	1/2-	5.7 s 3
104AG	0.0	5+	69.2 m 10
104AG	6.90 22	2+	33.5 m 20

## Levels Results

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	0.0	1+	24.56 s 11
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
114AG	0.0	1+	4.6 s 1
115AG	0.0	1/2-	20.0 m 5
115AG	41.16 10	7/2+	18.0 s 7
116AG	0.0	(0-)	230 s 5
116AG	47.90 10	(3+)	20 s 1
116AG	129.80 22	(6-)	9.3 s 3
117AG	0.0	(1/2-)	72.8 s +20-7
117AG	28.6 2	(7/2+)	5.34 s 5
118AG	0.0	1(-)	3.76 s 15
118AG	127.63 10	4(+)	2.0 s 2
119AG	0.0+X	(7/2+)	2.1 s 1
119AG	0.0+Y	(1/2-)	6.0 s 5
120AG	0.0	3(+)	1.23 s 4
94CD	0	0+	> 760 ns
96CD	0	0+	1.03 s +24-21
97CD	0.0	(9/2+)	2.8 s 6
98CD	0.0	0+	9.3 s 1
99CD	0.0	(5/2+)	16 s 3
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

## Levels Results

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
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+	$8.04 \times 10^{15}$ 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
116CD	0.0		0+	$3.3 \times 10^{+19}$ y 4
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
121CD	0.0		(3/2+)	13.5 s 3
121CD	214.86	15	(11/2-)	8.3 s 8
122CD	0.0		0+	5.24 s 3
123CD	0.0		3/2 (+)	2.10 s 3
123CD	144	4	11/2 (-)	1.80 s 3
124CD	0.0		0+	1.25 s 2
99IN	0			3.1 s 2
100IN	0.0		(6+)	5.65 s 6
101IN	0.0		(9/2+)	15.1 s 3
102IN	0.0		(6+)	23.3 s 1
103IN	0.0		(9/2)+	65 s 7
103IN	631.7	1	(1/2-)	34 s 2
104IN	0		(6+)	1.80 m 3
104IN	93.48	10	(3+)	15.7 s 5
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

## Levels Results

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+	≥ 4.9 ps
110IN	342.55 5	1+	≥ 4.9 ps
110IN	799.851 16	7-	≥ 2.0 ps
110IN	808.072 21	8-	≥ 2.4 ps
110IN	1006.06 3	(5,6)	≥ 1.7 ps
110IN	1017.93 4	9-	≥ 1.2 ps
110IN	1204.87 5	4-,5-,6-	≥ 1.1 ps
110IN	1482.35 6		≥ 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 <sup>+14</sup> y 25
115IN	336.244 17	1/2-	4.486 h 4
116IN	0.0	1+	14.10 s 3
116IN	127.267 6	5+	54.29 m 17
116IN	289.660 6	8-	2.18 s 4
117IN	0.0	9/2+	43.2 m 3
117IN	315.303 11	1/2-	116.2 m 3
118IN	0.0	1+	5.0 s 5
118IN	~60	5+	4.45 m 5
118IN	~200	8-	8.5 s 3
119IN	0	9/2+	2.4 m 1
119IN	311.37 3	1/2-	18.0 m 3
120IN	0.0	1+	3.08 s 8
120IN	0.0+X	(8-)	47.3 s 5
120IN	70 60	(5)+	46.2 s 8
121IN	0.0	9/2+	23.1 s 6
121IN	313.68 7	1/2-	3.88 m 10
122IN	0.0	1+	1.5 s 3
122IN	40 60	5+	10.3 s 6
122IN	2.9E+2 14	(8-)	10.8 s 4
123IN	0.0	9/2+	6.15 s 27
123IN	327.21 4	1/2-	47.4 s 8
123IN	2078.1+X	(21/2-)	≥ 100 μs
124IN	0.0	(1)+	3.12 s 9
124IN	<50	(8-)	3.7 s 2
125IN	0.0	9/2+	2.36 s 4
125IN	360.12 9	1/2 (-)	12.2 s 2
126IN	0.0	3 (+)	1.53 s 1
126IN	90 7	(8-)	1.64 s 5
127IN	0.0	(9/2+)	1.09 s 1
127IN	408.9 3	(1/2-)	3.67 s 4
127IN	1863 58	(21/2-)	1.04 s 10
129IN	459 5	(1/2-)	1.23 s 3
99SN	0		> 760 ns
100SN	0	0+	1.18 s 8

## Levels Results

101SN	0.0	(5/2+)	1.7 s 3
102SN	0.0	0+	3.8 s 2
103SN	0.0	(5/2+)	7.0 s 2
104SN	0.0	0+	20.8 s 5
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
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

## Levels Results

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+	$2.18 \times 10^{+5}$ 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
128SN	2091.50 11	(7-)	6.5 s 5
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
133SN	0.0	7/2-	1.46 s 3
134SN	0.0	0+	1.050 s 11
105SB	0	(5/2+)	1.22 s 11
107SB	0.0	(5/2+)	4.0 s 2
108SB	0.0	(4+)	7.4 s 3
109SB	0	(5/2+)	17.2 s 5
110SB	0.0	(3+)	23.6 s 3
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	$\geq 367$ fs
117SB	1536.53 16	(9/2+)	$\geq 243$ fs
117SB	1623.9 12	3/2	$\geq 132$ 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
119SB	1327.25 11	(1/2-)	> 76 fs

## Levels Results

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 <sup>-3</sup> 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
126SB	40.4 3	(3-)	≈ 11 s
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
134SB	279 1	(7-)	10.07 s 5
135SB	0.0	(7/2+)	1.679 s 15
108TE	0.0	0+	2.1 s 1
109TE	0.0	(5/2+)	4.4 s 2
110TE	0.0	0+	18.6 s 8
111TE	0.0	(5/2)+	19.3 s 4
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 <sup>+16</sup> 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

## Levels Results

<b>126TE</b>	3096.79	20		> 0.52 ps
<b>127TE</b>	0.0		3/2+	9.35 h 7
<b>127TE</b>	88.23	7	11/2-	106.1 d 7
<b>128TE</b>	0.0		0+	$7.7 \times 10^{+24}$ y 4
<b>128TE</b>	2308.30	4	0+	> 1.7 ps
<b>129TE</b>	0.0		3/2+	69.6 m 3
<b>129TE</b>	105.51	3	11/2-	33.6 d 1
<b>130TE</b>	0.0		0+	$> 0.79 \times 10^{+21}$ y
<b>131TE</b>	0.0		3/2+	25.0 m 1
<b>131TE</b>	182.258	18	11/2-	33.25 h 25
<b>132TE</b>	0.0		0+	3.204 d 13
<b>133TE</b>	0.0		(3/2+)	12.5 m 3
<b>133TE</b>	334.26	4	(11/2-)	55.4 m 4
<b>134TE</b>	0.0		0+	41.8 m 8
<b>135TE</b>	0.0		(7/2-)	19.0 s 2
<b>136TE</b>	0.0		0+	17.63 s 9
<b>137TE</b>	0.0		(7/2-)	2.49 s 5
<b>138TE</b>	0.0		0+	1.4 s 4
<b>139TE</b>	0.0		(7/2-)	1.6 s 3
<b>143TE</b>	0			> 408 ns
<b>111I</b>	0.0		(5/2+)	2.5 s 2
<b>112I</b>	0.0		(1+)	3.34 s 8
<b>112I</b>	X			> 25 ps
<b>113I</b>	0.0		5/2+	6.6 s 2
<b>114I</b>	0.0		1+	2.1 s 2
<b>114I</b>	265.9		(7)	6.2 s 5
<b>115I</b>	0.0		(5/2+)	1.3 m 2
<b>116I</b>	0.0		1+	2.91 s 15
<b>117I</b>	0.0		(5/2)+	2.22 m 4
<b>118I</b>	0.0		2-	13.7 m 5
<b>118I</b>	104.0+X	20	(7-)	8.5 m 5
<b>119I</b>	0.0		5/2+	19.1 m 4
<b>120I</b>	0.0		2-	81.6 m 2
<b>120I</b>	3.2E+2	15	(7-)	53 m 4
<b>121I</b>	0.0		5/2+	2.12 h 1
<b>122I</b>	0.0		1+	3.63 m 6
<b>123I</b>	0.0		5/2+	13.2230 h 19
<b>124I</b>	0.0		2-	4.1760 d 3
<b>125I</b>	0.0		5/2+	59.407 d 10
<b>126I</b>	0.0		2-	12.93 d 5
<b>127I</b>	0.0		5/2+	STABLE
<b>128I</b>	0.0		1+	24.99 m 2
<b>129I</b>	0.0		7/2+	$1.57 \times 10^{+7}$ y 4
<b>130I</b>	0.0		5+	12.36 h 1
<b>130I</b>	39.9525	13	2+	8.84 m 6
<b>131I</b>	0.0		7/2+	8.0252 d 6
<b>132I</b>	0.0		4+	2.295 h 13
<b>132I</b>	120	20	(8-)	1.387 h 15
<b>133I</b>	0.0		7/2+	20.83 h 8
<b>133I</b>	1634.148	10	(19/2-)	9 s 2
<b>134I</b>	0.0		(4)+	52.5 m 2
<b>134I</b>	316.49	22	(8)-	3.52 m 4
<b>135I</b>	0.0		7/2+	6.58 h 3
<b>136I</b>	0		(1-)	83.4 s 4
<b>136I</b>	201	26	(6-)	46.6 s 11
<b>137I</b>	0.0		(7/2+)	24.5 s 2
<b>138I</b>	0.0		(1-)	6.26 s 3
<b>139I</b>	0.0		(7/2+)	2.280 s 11
<b>144I</b>	X			$\geq 300$ ns
<b>145I</b>	0			> 407 ns

## Levels Results

112XE	0.0	0+	2.7 s 8
113XE	0.0	(5/2+)	2.74 s 8
114XE	0	0+	10.0 s 4
115XE	0.0	(5/2+)	18 s 4
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
134XE	0.0	0+	$> 5.8 \times 10^{+22}$ y
135XE	0.0	3/2+	9.14 h 2
135XE	526.551 13	11/2-	15.29 m 5
136XE	0.0	0+	$2.165 \times 10^{+21}$ y 61
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
140XE	0.0	0+	13.60 s 10
141XE	0.0	5/2 (-)	1.73 s 1
142XE	0.0	0+	1.23 s 2
144XE	0.0	0+	1.15 s 20
148XE	0	0+	$> 0.4$ $\mu$ s
115CS	0.0		1.4 s 8
116CS	100 Syst.	4+, 5, 6	3.85 s 13
117CS	0	(9/2+)	8.4 s 6
117CS	0+Z	(3/2+)	6.5 s 4
118CS	0.0	2 (-)	14 s 2
118CS	0.0+X	(7-)	17 s 3
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	0.0	1+	21.18 s 19
122CS	45.87 12	(3)+	$> 1$ $\mu$ s
122CS	140 30	8 (-)	3.70 m 11
123CS	0.0	1/2 (+)	5.86 m 10
123CS	156.27 5	11/2 (-)	1.7 s 2
124CS	0.0	1+	30.9 s 4
124CS	462.63 14	(7) +	6.3 s 2
125CS	0.0	1/2 (+)	46.7 m 1
126CS	0.0	1+	1.643 m 17

## Levels Results

126CS	272.44 25	(4)-	$\geq 1 \mu\text{s}$
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+	$2.3 \times 10^{+6} \text{ y } 3$
135CS	1632.9	19/2-	53 m 2
136CS	0.0	5+	13.01 d 5
136CS	517.9 1	8-	17.5 s 2
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
141CS	0.0	7/2+	24.84 s 16
142CS	0.0	0-	1.684 s 14
143CS	0	3/2+	1.791 s 7
144CS	0.0	1(-)	0.994 s 6
144CS	0+Y	(GE 4)	< 1 s
152CS	0		> 50 ms
116BA	0	0+	1.3 s 2
117BA	0.0	(3/2)	1.75 s 7
118BA	0	0+	5.5 s 2
119BA	0.0	(5/2+)	5.4 s 3
120BA	0.0	0+	24 s 2
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
127BA	80.32 11	7/2-	1.93 s 7
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
132BA	0.0	0+	$> 3.0 \times 10^{+21} \text{ y}$
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
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+)	$\geq 0.8 \text{ ps}$
138BA	3504.28 10	2-	$\geq 0.2 \text{ ps}$

## Levels Results

138BA	3600.73 10	1	$\geq 0.09$ 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
143BA	0.0	5/2-	14.5 s 3
144BA	0.0	0+	11.5 s 2
145BA	0.0	5/2-	4.31 s 16
146BA	0.0	0+	2.21 s 6
120LA	0.0+X		2.8 s 2
121LA	0.0		5.3 s 2
122LA	0.0		8.6 s 5
123LA	0.0		16.3 s 3
124LA	0.0+V		21 s 4
124LA	0.0+Y	(8-)	29.21 s 17
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-)	$\geq 1.2$ 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+	$6 \times 10^{+4}$ y 2
138LA	0.0	5+	$1.03 \times 10^{+11}$ 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
145LA	0.0	(5/2+)	24.8 s 20
146LA	0.0	(2-)	6.1 s 3
146LA	0.0+X	(6-)	9.8 s 4
147LA	0.0	(5/2+)	4.06 s 4
148LA	0.0	(2-)	1.26 s 8
149LA	0.0	(3/2)	1.091 s 34
121CE	0.0	(5/2)	1.1 s 1
123CE	0.0	(5/2)	3.8 s 2
124CE	0.0	0+	6 s 2
125CE	0.0	(7/2-)	9.7 s 3
126CE	0.0	0+	51.0 s 4
127CE	0	(1/2+)	34 s 2
127CE	7.3 11	(5/2+)	28.6 s 7
127CE	36.8 12	(7/2-)	> 10 $\mu$ s
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

## Levels Results

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
135CE	445.81 21	(11/2-)	20 s 1
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 <sup>+16</sup> 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
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+	> 5×10 <sup>+16</sup> 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
149CE	0.0	(3/2-)	5.12 s 25
150CE	0.0	0+	4.0 s 6
151CE	0.0	(5/2+)	1.76 s 6
151CE	0+X		1.02 s 6
152CE	0.0	0+	1.4 s 2
124PR	0.0		1.2 s 2
125PR	0.0		3.3 s 7
126PR	0.0	GE 4	3.14 s 22
127PR	0.0		4.2 s 3
128PR	0.0	4,5,6	2.84 s 9
129PR	0.0	(3/2+)	30 s 4
130PR	0+X	(5+)	40.0 s 4

## Levels Results

131PR	0.0	(3/2+)	1.51 m 2
131PR	152.4 3	(11/2-)	5.73 s 20
132PR	0.0	(2)+	1.6 m 3
133PR	0.0	(3/2+)	6.5 m 3
133PR	192.12 14	(11/2-)	1.1 s 2
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
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
150PR	0	(1-)	6.19 s 16
151PR	0.0	(3/2-)	18.90 s 7
151PR	35.10 10	(7/2+)	> 10 μs
152PR	0.0	(4+)	3.57 s 18
153PR	0.0		4.29 s 11
154PR	0	(3+)	2.3 s 1
155PR	0.0		1.47 s 3
127ND	≥0.0		1.8 s 4
128ND	0	0+	5 s
129ND	0	(5/2+)	6.7 s 4
129ND	0+X	(7/2-)	≈ 7 s
129ND	0+Z	(1/2+)	2.6 s 4
130ND	0.0	0+	13 s 3
131ND	0.0	(5/2+)	25.4 s 9

## Levels Results

<b>132ND</b>	0.0	0+	94 s 8
<b>133ND</b>	0.0	(7/2+)	70 s 10
<b>133ND</b>	127.97 12	(1/2+)	~ 70 s
<b>134ND</b>	0.0	0+	8.5 m 15
<b>135ND</b>	0.0	9/2(-)	12.4 m 6
<b>136ND</b>	0.0	0+	50.65 m 33
<b>137ND</b>	0.0	1/2+	38.5 m 15
<b>137ND</b>	519.43 20	11/2-	1.60 s 15
<b>138ND</b>	0.0	0+	5.04 h 9
<b>139ND</b>	0.0	3/2+	29.7 m 5
<b>139ND</b>	231.16 5	11/2-	5.50 h 20
<b>140ND</b>	0.0	0+	3.37 d 2
<b>141ND</b>	0.0	3/2+	2.49 h 3
<b>141ND</b>	756.51 5	11/2-	62.0 s 8
<b>142ND</b>	0.0	0+	STABLE
<b>142ND</b>	2585.550 20	1(+)	> 0.17 ps
<b>143ND</b>	0.0	7/2-	STABLE
<b>144ND</b>	0	0+	$2.29 \times 10^{15}$ y 16
<b>144ND</b>	2109.79 3	4+	> 0.2 ps
<b>144ND</b>	2218.31 5	6+	> 0.7 ps
<b>144ND</b>	2295.41 3	4+	> 0.27 ps
<b>144ND</b>	2420.21 7	5+	> 0.7 ps
<b>144ND</b>	2655.097 24	(3+)	> 0.7 ps
<b>144ND</b>	2692.97 4	2+	> 0.12 ps
<b>144ND</b>	2715.79 7	(5,6)	> 0.7 ps
<b>144ND</b>	2808.83 9	6+	> 44 fs
<b>144ND</b>	2834.58 4	(4+)	> 0.7 ps
<b>144ND</b>	2868.26 5	(3,2+)	> 0.14 ps
<b>144ND</b>	2887.98 6	(5,4)	> 0.7 ps
<b>144ND</b>	2901.34 3	2+	> 0.06 ps
<b>144ND</b>	2950.98 6	3(+)	> 58 fs
<b>145ND</b>	0.0	7/2-	STABLE
<b>146ND</b>	0.0	0+	STABLE
<b>147ND</b>	0.0	5/2-	11.03 d 3
<b>148ND</b>	0.0	0+	STABLE
<b>149ND</b>	0.0	5/2-	1.726 h 5
<b>150ND</b>	0	0+	$0.91 \times 10^{19}$ y 7
<b>151ND</b>	0.0	3/2+	12.44 m 7
<b>152ND</b>	0.0	0+	11.4 m 2
<b>153ND</b>	0.0	(3/2) -	31.6 s 10
<b>154ND</b>	0	0+	25.9 s 2
<b>154ND</b>	1349	(5-)	> 1 $\mu$ s
<b>155ND</b>	0.0	(3/2-)	8.9 s 2
<b>156ND</b>	0	0+	5.26 s 20
<b>157ND</b>	0.0	(5/2-)	1.15 s 3
<b>128PM</b>	0.0	5,6,7	1.0 s 3
<b>129PM</b>	0	(5/2-)	2.4 s 9
<b>130PM</b>	0.0	(4,5,6)	2.6 s 2
<b>131PM</b>	0.0	(11/2-)	6.3 s 8
<b>132PM</b>	0.0	(3+)	6.2 s 6
<b>133PM</b>	0.0	(3/2+)	13.5 s 21
<b>133PM</b>	129.7 7	(11/2-)	< 8.8 s
<b>134PM</b>	0.0	(2+)	~ 5 s
<b>134PM</b>	0.0+X	(5+)	22 s 1
<b>135PM</b>	0+X	(3/2+, 5/2+)	49 s 3
<b>135PM</b>	68.7+Y 22	(11/2-)	45 s 4
<b>136PM</b>	X	(2)	300 s 50
<b>136PM</b>	Y	(5-)	107 s 6
<b>137PM</b>	0.0	11/2-	2.4 m 1
<b>138PM</b>	0.0	(1+)	10 s 2

## Levels Results

138PM	X	(5-)	3.24 m 5
139PM	0.0	(5/2)+	4.15 m 5
140PM	0.0	1+	9.2 s 2
140PM	0.0+X	8-	5.95 m 5
141PM	0.0	5/2+	20.90 m 5
141PM	2530.75 17		> 2 $\mu$ s
141PM	2574.4 4		$\geq$ 2 $\mu$ 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
156PM	0	4(+)	26.70 s 10
156PM	150.3 1	1(+)	< 5 s
157PM	0.0	(5/2-)	10.56 s 12
158PM	0.0		4.8 s 5
158PM	121+X		> 16 $\mu$ s
159PM	0.0	(5/2-)	1.634 s 42
161PM	0.0	(5/2-)	1.05 s 15
131SM	0.0		1.2 s 2
132SM	0.0	0+	4.0 s 3
133SM	0.0	(5/2+)	2.89 s 16
133SM	0.0+Y	(1/2-)	3.5 s 4
134SM	0.0	0+	9.5 s 8
135SM	0.0	(3/2+, 5/2+)	10.3 s 5
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	457.38 23	11/2-	10.7 s 6
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

## Levels Results

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+	6.8×10 <sup>+7</sup> y 7
147SM	0.0		7/2-	1.073×10 <sup>11</sup> y 10
148SM	0.0		0+	7×10 <sup>+15</sup> y 3
149SM	0.0		7/2-	STABLE
150SM	0.0		0+	STABLE
151SM	0.0		5/2-	90 y 8
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
159SM	0.0		5/2-	11.37 s 15
160SM	0.0		0+	9.6 s 3
161SM	0			4.8 s 4
162SM	0		0+	2.4 s 5
163SM	0.0		(1/2-)	1.23 s +51-47
164SM	0.0		0+	1.43 s 24
165SM	0			0.98 s 21
166SM	0.0		0+	0.80 s 63
135EU	0.0			1.5 s 2
136EU	X		(7+)	3.3 s 3
136EU	Y		(3+)	3.8 s 3
137EU	0.0		(11/2-)	11 s 2
138EU	0.0		(6-)	12.1 s 6
139EU	0.0		(11/2) -	17.9 s 6
140EU	0.0		1+	1.51 s 2
141EU	0.0		5/2+	40.7 s 7
141EU	96.45	7	11/2-	2.7 s 3
142EU	0.0		1+	2.34 s 12
142EU	0.0+X		8-	1.223 m 8
143EU	0.0		5/2+	2.59 m 2
144EU	0.0		1+	10.2 s 1
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+	≥ 1.7×10 <sup>+18</sup> 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

## Levels Results

160EU	0.0	(5-)	42.6 s 5
160EU	93.0 12	(1-)	30.8 s 5
161EU	0		26 s 3
162EU	0		10.6 s 10
163EU	0.0		7.7 s 4
164EU	0	(3)	4.15 s 20
165EU	0		2.24 s 14
166EU	0		1.7 s 3
135GD	0.0	(5/2+)	1.1 s 2
136GD	0.0	0+	$\geq 200$ ns
137GD	0.0	(7/2)	2.2 s 2
138GD	0	0+	4.7 s 9
139GD	0.0	(9/2-)	5.8 s 9
139GD	0+X		4.8 s 9
140GD	0.0	0+	15.8 s 4
141GD	0.0	1/2+	14 s 4
141GD	377.76 9	11/2-	24.5 s 5
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+	$1.79 \times 10^{+6}$ y 8
151GD	0.0	7/2-	123.9 d 10
152GD	0.0	0+	$1.08 \times 10^{14}$ 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
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
165GD	0		11.3 s 13
166GD	0.0	0+	4.8 s 10
167GD	0	(5/2-)	4.26 s +18-32

			Levels Results
<b>168GD</b>	0.0	0+	3.03 s 16
<b>138TB</b>	X		$\geq 200$ ns
<b>139TB</b>	0.0		1.6 s 2
<b>140TB</b>	0.0	(7+)	2.29 s 15
<b>141TB</b>	0.0	(5/2-)	3.5 s 2
<b>143TB</b>	0.0	(11/2-)	12 s 1
<b>143TB</b>	0+X		< 21 s
<b>144TB</b>	0.0	1+	$\approx$ 1 s
<b>144TB</b>	396.9 5	(6-)	4.25 s 15
<b>145TB</b>	Y	(11/2-)	30.9 s 6
<b>146TB</b>	0.0	1+	8 s 4
<b>146TB</b>	0.0+X	5-	24.1 s 5
<b>147TB</b>	0.0	(1/2+)	1.64 h 3
<b>147TB</b>	50.6 9	(11/2-)	1.83 m 6
<b>148TB</b>	0.0	2-	60 m 1
<b>148TB</b>	90.1 3	(9)+	2.20 m 5
<b>149TB</b>	0.0	1/2+	4.12 h 3
<b>149TB</b>	35.75 8	11/2-	4.17 m 5
<b>150TB</b>	0	(2)-	3.48 h 16
<b>150TB</b>	461 27	9+	5.8 m 2
<b>151TB</b>	0.0	1/2(+)	17.609 h 14
<b>151TB</b>	99.53 5	(11/2-)	25 s 3
<b>152TB</b>	0.0	2-	17.5 h 1
<b>152TB</b>	501.74 19	8+	4.2 m 1
<b>153TB</b>	0.0	5/2+	2.34 d 1
<b>154TB</b>	0.0	0	21.5 h 4
<b>154TB</b>	0+X	3-	9.4 h 4
<b>154TB</b>	0+Y	7-	22.7 h 5
<b>155TB</b>	0.0	3/2+	5.32 d 6
<b>156TB</b>	0.0	3-	5.35 d 10
<b>156TB</b>	49.630+X	(7-)	24.4 h 10
<b>156TB</b>	88.4	(0+)	5.3 h 2
<b>157TB</b>	0.0	3/2+	71 y 7
<b>158TB</b>	0.0	3-	180 y 11
<b>158TB</b>	110.3 12	0-	10.70 s 17
<b>159TB</b>	0.0	3/2+	STABLE
<b>160TB</b>	0.0	3-	72.3 d 2
<b>161TB</b>	0.0	3/2+	6.89 d 2
<b>162TB</b>	0.0	1-	7.60 m 15
<b>163TB</b>	0.0	3/2+	19.5 m 3
<b>164TB</b>	0	(5+)	3.0 m 1
<b>165TB</b>	0	(3/2+)	2.11 m 10
<b>166TB</b>	0.0	(2-)	25.1 s 21
<b>167TB</b>	0	(3/2+)	18.9 s 20
<b>168TB</b>	0.0	(4-)	8.2 s 13
<b>169TB</b>	0.0	(3/2+)	5.1 s 3
<b>170TB</b>	0.0		0.96 s 8
<b>171TB</b>	0.0		1.24 s +9-10
<b>141DY</b>	0.0	(9/2-)	0.9 s 2
<b>142DY</b>	0.0	0+	2.3 s 3
<b>143DY</b>	0	(1/2+)	5.6 s 10
<b>143DY</b>	310.7 6	(11/2-)	3.0 s 3
<b>144DY</b>	0.0	0+	9.1 s 4
<b>145DY</b>	0.0	(1/2+)	6 s 2
<b>145DY</b>	118.2 2	(11/2-)	14.1 s 7
<b>146DY</b>	0.0	0+	33.2 s 7
<b>147DY</b>	0.0	(1/2+)	67 s 7
<b>147DY</b>	750.5 4	(11/2-)	55.2 s 5
<b>148DY</b>	0.0	0+	3.3 m 2
<b>149DY</b>	0.0	7/2-	4.2 m 2

## Levels Results

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-	$\geq 1.0$ ps
155DY	11450.6 18	75/2-	$\geq 1.0$ ps
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
171DY	0.0		4.1 s 4
172DY	0	0+	> 160 ns
173DY	0.0	(9/2 +)	1.43 s 20
174DY	0	0+	> 160 ns
145HO	0.0	(11/2 -)	2.4 s 1
146HO	0.0+X	(6 -)	3.32 s 22
147HO	0.0	(11/2 -)	5.8 s 4
148HO	0.0	(1 +)	2.2 s 11
148HO	0.0+X	(5) -	9.59 s 15
149HO	0.0	(11/2 -)	21.0 s 2
149HO	48.8 2	(1/2 +)	56 s 3
149HO	7.20E3 35		$\geq 100$ ns
150HO	0.0	(2) -	72 s 4
150HO	X	(9) +	23.5 s 3
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	1 -	9.5 s 15
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
159HO	205.91 5	1/2 +	8.30 s 8
160HO	0.0	5 +	25.6 m 3
160HO	59.98 3	2 -	5.02 h 5
160HO	169.56+X	(9 +)	3.2 s 2

## Levels Results

161HO	0.0	7/2-	2.48 h 5
161HO	211.15 3	1/2+	6.76 s 7
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	297.88 7	1/2+	1.09 s 3
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 <sup>3</sup> 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
172HO	0.0		25 s 3
173HO	0.0	(7/2-)	6.9 s 5
174HO	0.0	(8-)	3.2 s 11
175HO	0.0	(7/2-)	1.9 s 6
176HO	0		> 160 ns
144ER	0.0	0+	≥ 200 ns
145ER	253	(11/2-)	0.9 s 3
146ER	0.0	0+	1.7 s 6
147ER	0.0	(1/2+)	3.2 s 12
147ER	0.0+X	(11/2-)	1.6 s 2
148ER	0.0	0+	4.6 s 2
149ER	0.0	(1/2+)	4 s 2
149ER	741.69 23	(11/2-)	9.6 s 6
150ER	0	0+	18.5 s 7
151ER	0.0	(7/2-)	23.5 s 20
152ER	0.0	0+	10.3 s 1
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
167ER	207.801 5	1/2-	2.269 s 6
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

## Levels Results

<a href="#">171ER</a>	0.0	5/2-	7.516 h 2
<a href="#">172ER</a>	0.0	0+	49.3 h 5
<a href="#">173ER</a>	0.0	(7/2-)	1.4 m 1
<a href="#">174ER</a>	0.0	0+	3.2 m 2
<a href="#">175ER</a>	0.0	(9/2+)	1.2 m 3
<a href="#">176ER</a>	0	0+	> 160 ns
<a href="#">178ER</a>	0	0+	> 160 ns
<a href="#">149TM</a>	0.0	(11/2-)	0.9 s 2
<a href="#">150TM</a>	0.0	(6-)	2.20 s 6
<a href="#">151TM</a>	0.0	(11/2-)	4.17 s 11
<a href="#">151TM</a>	0.0+X	(1/2+)	6.6 s 20
<a href="#">152TM</a>	0.0	(2)-	8.0 s 10
<a href="#">152TM</a>	0.0+X	(9)+	5.2 s 6
<a href="#">153TM</a>	0.0	(11/2-)	1.48 s 1
<a href="#">153TM</a>	43.2 2	(1/2+)	2.5 s 2
<a href="#">154TM</a>	0	(2-)	8.1 s 3
<a href="#">154TM</a>	0+X	9+	3.30 s 7
<a href="#">155TM</a>	0.0	11/2-	21.6 s 2
<a href="#">155TM</a>	41 6	1/2+	45 s 4
<a href="#">156TM</a>	0	2-	83.8 s 18
<a href="#">157TM</a>	0	1/2+	3.63 m 9
<a href="#">158TM</a>	0.0	2-	3.98 m 6
<a href="#">159TM</a>	0	5/2+	9.13 m 16
<a href="#">160TM</a>	0.0	1-	9.4 m 3
<a href="#">160TM</a>	70 20	5	74.5 s 15
<a href="#">161TM</a>	0	7/2+	30.2 m 8
<a href="#">162TM</a>	0	1-	21.70 m 19
<a href="#">162TM</a>	X	5+	24.3 s 17
<a href="#">163TM</a>	0.0	1/2+	1.810 h 5
<a href="#">164TM</a>	0.0	1+	1.95 m 10
<a href="#">164TM</a>	0.0+X	6-	5.1 m 1
<a href="#">165TM</a>	0.0	1/2+	30.06 h 3
<a href="#">166TM</a>	0.0	2+	7.70 h 3
<a href="#">167TM</a>	0.0	1/2+	9.25 d 2
<a href="#">168TM</a>	0.0	3+	93.1 d 2
<a href="#">169TM</a>	0.0	1/2+	STABLE
<a href="#">170TM</a>	0.0	1-	128.6 d 3
<a href="#">171TM</a>	0.0	1/2+	1.92 y 1
<a href="#">172TM</a>	0.0	2-	63.6 h 3
<a href="#">173TM</a>	0.0	(1/2+)	8.24 h 8
<a href="#">174TM</a>	0.0	(4)-	5.4 m 1
<a href="#">175TM</a>	0.0	(1/2+)	15.2 m 5
<a href="#">176TM</a>	0.0	(4+)	1.85 m 3
<a href="#">177TM</a>	0.0	(1/2+)	95 s 7
<a href="#">177TM</a>	0.0+X	(7/2-)	77 s 11
<a href="#">178TM</a>	0		> 300 ns
<a href="#">179TM</a>	0		> 160 ns
<a href="#">180TM</a>	0.0		> 300 ns
<a href="#">181TM</a>	0		> 160 ns
<a href="#">150YB</a>	0.0	0+	≥ 200 ns
<a href="#">151YB</a>	0.0	(1/2+)	1.6 s 1
<a href="#">151YB</a>	0.0+X	(11/2-)	1.6 s 1
<a href="#">152YB</a>	0.0	0+	3.03 s 6
<a href="#">153YB</a>	0.0	(7/2-)	4.2 s 2
<a href="#">155YB</a>	0.0	(7/2-)	1.793 s 20
<a href="#">156YB</a>	0	0+	26.1 s 7
<a href="#">157YB</a>	0.0	7/2-	38.6 s 10
<a href="#">158YB</a>	0.0	0+	1.49 m 13
<a href="#">159YB</a>	0	5/2 (-)	1.67 m 9
<a href="#">160YB</a>	0.0	0+	4.8 m 2

## Levels Results

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
176YB	1049.8 6	8-	11.4 s 3
177YB	0.0	9/2+	1.911 h 3
177YB	331.5 3	1/2-	6.41 s 2
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	0.0	11/2-	0.9 s 2
153LU	2502.5 4	(23/2-)	> 0.1 μs
154LU	X	(9+)	1.12 s 8
157LU	0.0	(1/2+, 3/2+)	6.8 s 18
157LU	20.9 20	(11/2-)	4.79 s 12
158LU	0.0	(2)-	10.6 s 3
159LU	0		12.1 s 10
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

## Levels Results

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
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-)	$\geq 1$ ms
181LU	0.0	(7/2+)	3.5 m 3
182LU	0		2.0 m 2
183LU	0.0	(7/2+)	58 s 4
184LU	0.0	(3+)	19 s 2
185LU	0		> 160 ns
154HF	0	0+	2 s 1
158HF	0	0+	2.85 s 7
159HF	0	7/2-	5.6 s 4
160HF	0.0	0+	13.6 s 2
161HF	0.0	(7/2-)	18.4 s 4
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	1315.4502 8	23/2+	1.09 s 5
177HF	2740.02 15	37/2-	51.4 m 5
178HF	0.0	0+	STABLE
178HF	1147.416 6	8-	4.0 s 2
178HF	2446.09 8	16+	31 y 1
179HF	0.0	9/2+	STABLE
179HF	375.0352 25	1/2-	18.67 s 4
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 $\mu$ 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

## Levels Results

<b>186HF</b>	0.0	0+	2.6 m 12
<b>186HF</b>	2968 43		> 20 s
<b>159TA</b>	0	1/2+	0.83 s 18
<b>160TA</b>	0.0		1.55 s 4
<b>160TA</b>	0.0+X		1.7 s 2
<b>161TA</b>	X	(11/2-)	3.08 s 11
<b>162TA</b>	0		3.57 s 12
<b>163TA</b>	0.0		10.6 s 18
<b>164TA</b>	0.0	(3+)	14.2 s 3
<b>165TA</b>	0.0	(9/2-)	31.0 s 15
<b>166TA</b>	0.0	(2)+	34.4 s 5
<b>167TA</b>	0.0	(3/2+)	80 s 4
<b>168TA</b>	0.0	(2-,3+)	2.0 m 1
<b>169TA</b>	0.0	(5/2+)	4.9 m 4
<b>170TA</b>	0.0	(3+)	6.76 m 6
<b>171TA</b>	0.0	(5/2+)	23.3 m 3
<b>171TA</b>	31.2	(5/2-)	23.3 m 3
<b>171TA</b>	2571.0 3	(33/2-)	> 0.69 ps
<b>172TA</b>	0.0	(3+)	36.8 m 3
<b>173TA</b>	0.0	5/2-	3.14 h 13
<b>174TA</b>	0.0	3+	1.14 h 8
<b>175TA</b>	0.0	7/2+	10.5 h 2
<b>176TA</b>	0.0	(1)-	8.09 h 5
<b>177TA</b>	0.0	7/2+	56.36 h 13
<b>178TA</b>	0.0+X	7-	2.36 h 8
<b>178TA</b>	0.0+Y	(1+)	9.31 m 3
<b>179TA</b>	0.0	7/2+	1.82 y 3
<b>180TA</b>	0.0	1+	8.154 h 6
<b>180TA</b>	77.2 12	9-	> 7.1×10 <sup>15</sup> y
<b>181TA</b>	0.0	7/2+	STABLE
<b>182TA</b>	0.0	3-	114.74 d 12
<b>182TA</b>	519.577 16	10-	15.84 m 10
<b>183TA</b>	0.0	7/2+	5.1 d 1
<b>184TA</b>	0.0	(5-)	8.7 h 1
<b>185TA</b>	0.0	(7/2+)	49.4 m 15
<b>185TA</b>	1258.5+X	(21/2)	> 1 ms
<b>186TA</b>	0.0	(3-)	10.39 m 3
<b>186TA</b>	336 20		1.54 m 5
<b>186TA</b>	347.9 3	(7+)	17 s 2
<b>187TA</b>	0.0	(7/2+)	283 s 10
<b>187TA</b>	1778.1 10	(25/2-)	7.3 s 9
<b>187TA</b>	2933 14	(41/2+)	> 5 m
<b>188TA</b>	0	(1-)	19.6 s 20
<b>188TA</b>	99 33	(7-)	19.6 s 20
<b>190TA</b>	0	(3)	5.3 s 7
<b>191TA</b>	0		> 300 ns
<b>192TA</b>	0.0	(1,2)	2.2 s 7
<b>162W</b>	0	0+	1.19 s 12
<b>163W</b>	0.0	7/2-	2.67 s 10
<b>164W</b>	0.0	0+	6.3 s 2
<b>165W</b>	0.0	(5/2-)	5.1 s 5
<b>166W</b>	0.0	0+	19.2 s 6
<b>167W</b>	0.0	(5/2-)	19.9 s 5
<b>168W</b>	0.0	0+	50.9 s 19
<b>168W</b>	1834.2 4	7 (-)	> 3.1 ps
<b>168W</b>	2581.6 9	(10+)	> 104 ps
<b>169W</b>	0.0	(5/2-)	74 s 6
<b>170W</b>	0.0	0+	2.42 m 4
<b>171W</b>	0.0	(5/2-)	2.38 m 4
<b>172W</b>	0.0	0+	6.6 m 9

## Levels Results

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+	$1.8 \times 10^{18}$ y 2
181W	0.0	9/2+	121.2 d 2
182W	0.0	0+	STABLE
183W	0.0	1/2-	$\geq 6.7 \times 10^{20}$ y
183W	309.492 4	11/2+	5.30 s 8
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
186W	3542.8 21	(16+)	7.5 s +48-35
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
164RE	0+X		0.86 s +15-11
165RE	0.0	(1/2+)	1.6 s 6
165RE	48 26	(11/2-)	1.74 s 6
166RE	0		2.25 s 21
167RE	0.0	(1/2+)	3.4 s 4
167RE	0.0+X	(9/2-)	5.9 s 5
168RE	0.0	(7+)	4.4 s 1
169RE	0.0	(9/2-)	8.1 s 5
169RE	0.0+X	(1/2+, 3/2+)	15.1 s 15
170RE	0.0	(5+)	9.2 s 2
171RE	0.0	(9/2-)	15.2 s 4
172RE	0+X	(5+)	15 s 3
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
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

## Levels Results

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	0.0		16 s 1
192RE	267 10		61 s +40-20
194RE	0	(0+,1)	5 s 1
194RE	285 40	(11-)	25 s 8
194RE	833 33		100 s 10
195RE	0	[3/2-]	6 s 1
196RE	0		3 s +1-2
197RE	0		> 160 ns
198RE	0		> 160 ns
199RE	0		> 160 ns
168OS	0.0	0+	2.1 s 1
169OS	0.0	(5/2-)	3.43 s 14
170OS	0.0	0+	7.37 s 18
171OS	0.0	(5/2-)	8.3 s 2
172OS	0.0	0+	19.2 s 9
173OS	0.0	5/2-	22.4 s 9
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 <sup>13</sup> y
185OS	0.0	1/2-	93.6 d 5
186OS	0.0	0+	2.0×10 <sup>+15</sup> 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	2015.40 11	(10-)	5.9 s 1
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
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
199OS	0		5 s +4-2

			Levels Results
200OS	0	0+	6 s +4-3
202OS	0	0+	> 160 ns
170IR	0.0	(3-)	0.87 s +18-12
171IR	0.0	(1/2+)	3.2 s +13-7
171IR	0.0+X	(11/2-)	1.2 s 1
172IR	0+X	(3-, 4-)	4.4 s 3
172IR	0+Y	(7+)	2.19 s 7
173IR	0.0	(3/2+, 5/2+)	9.0 s 8
173IR	226 18	11/2-	2.20 s 5
174IR	0.0	(3+)	7.9 s 6
174IR	193 11	(7+)	4.9 s 3
175IR	0.0	(5/2-)	9 s 2
176IR	0.0		8.7 s 5
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	0.0		12 s 2
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	171.29 4	11/2-	4.899 s 23
191IR	624.07 4	(1/2+)	> 5 ps
191IR	2046.7+X		5.5 s 7
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
198IR	0.0		8 s 1
199IR	0		6 s +5-4
200IR	0	(2-, 3-)	43 s 6
201IR	0	(3/2+)	21 s 5
202IR	0	(1-, 2-)	11 s 3
204IR	0		> 160 ns
175PT	0.0	7/2-	2.53 s 6

## Levels Results

176PT	0.0	0+	6.33 s 15
177PT	0.0	5/2-	10.0 s 4
178PT	0.0	0+	20.7 s 7
179PT	0.0	1/2-	21.2 s 4
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 <sup>11</sup> y 16
191PT	0.0	3/2-	2.83 d 2
191PT	100.663 20	(9/2)-	> 1 μs
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-	≥ 2.4×10 <sup>-6</sup> 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
199PT	424 2	(13/2)+	13.6 s 4
200PT	0.0	0+	12.6 h 3
201PT	0.0	(5/2-)	2.46 m 9
202PT	0	0+	44 h 15
203PT	0	(1/2-)	22 s 4
203PT	1367 3	(13/2+)	12 s 5
204PT	0.0	0+	10.3 s 14
206PT	0	0+	> 160 ns
176AU	0.0+X	(3-)	1.05 s 1
176AU	0.0+Y	(9+)	1.36 s 2
177AU	0.0	1/2+	1.501 s 20
177AU	182.7 5	(11/2-)	1.193 s 13
178AU	0.0		2.6 s 5
179AU	0.0	(1/2+, 3/2+)	7.1 s 3
179AU	86+X 13		> 100 μs
180AU	0.0		8.4 s 6
181AU	0.0	(3/2-)	13.7 s 14
182AU	0.0	(2+)	15.5 s 4
183AU	0.0	(5/2)-	42.8 s 10
183AU	73.3 4	(1/2)+	> 1 μs

## Levels Results

184AU	0.0	5+	20.6 s 9
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(+) 9/2(-)	8.3 m 2 2.3 s 1
188AU	120.33 14		
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
191AU	266.2 7	(11/2-)	0.92 s 11
192AU	0.0	1-	4.94 h 9
193AU	0.0	3/2+	17.65 h 15
193AU	290.20 4	11/2-	3.9 s 3
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	84.656 20	5+	8.1 s 2
196AU	595.66 4	12-	9.6 h 1
197AU	0.0	3/2+	STABLE
197AU	409.15 8	11/2-	7.73 s 6
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
202AU	0	(1-)	28.4 s 12
203AU	0	3/2+	60 s 6
204AU	0	(2-)	39.8 s 9
205AU	0.0	(3/2+)	32.0 s 14
205AU	907 5	(11/2-)	6 s 2
206AU	0	5+, 6+	40 s 15
207AU	0		> 300 ns
209AU	0	(3/2+)	> 300 ns
210AU	0		> 300 ns
179HG	0.0	(7/2-)	1.05 s 3
180HG	0.0	0+	2.59 s 1
181HG	0.0	1/2-	3.6 s 1
182HG	0.0	0+	10.83 s 6
183HG	0.0	1/2-	9.4 s 7
184HG	0.0	0+	30.87 s 26
185HG	0.0	1/2-	49.1 s 10
185HG	99.3 5	13/2+	21.6 s 15
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

## Levels Results

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
180TL	0.0	(5-)	1.09 s 1
181TL	0.0	(1/2+)	3.2 s 3
182TL	0.0	(7+)	3.1 s 10
183TL	0.0	(1/2+)	6.9 s 7
184TL	0		10.1 s 5
185TL	0.0	(1/2+)	19.5 s 5
185TL	454.8 15	(9/2-)	1.93 s 8
186TL	0.0	(2-)	3.4 s +5-4
186TL	40 39	(7+)	27.5 s 10
186TL	414 39	(10-)	3.32 s 11
187TL	0.0	(1/2+)	≈ 51 s
187TL	334 4	(9/2-)	15.60 s 12
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
195TL	482.63 17	9/2-	3.6 s 4
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
200TL	0.0	2-	26.1 h 1

## Levels Results

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
207TL	1348.18 16	11/2-	1.33 s 11
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
213TL	0	(1/2+)	23.8 s 44
214TL	0		11.0 s 24
215TL	0.0		9.7 s 38
216TL	0		> 300 ns
185PB	0.0	3/2-	6.3 s 4
185PB	0.0+X	13/2+	4.3 s 2
186PB	0.0	0+	4.81 s 3
187PB	0.0	(3/2-)	15.2 s 3
187PB	33 13	(13/2+)	18.3 s 3
188PB	0	0+	25.5 s 1
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
203PB	825.11 10	13/2+	6.21 s 8
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

## Levels Results

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
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
217PB	0			19.9 s 53
218PB	0		0+	15 s 7
220PB	0		0+	> 300 ns
188BI	65	29		> 5 $\mu$ s
190BI	0		(3+)	6.3 s 1
190BI	191	65	(10-)	6.2 s 1
191BI	0.0		(9/2-)	12.4 s 3
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
193BI	305	6	(1/2+)	3.20 s 14
194BI	0.0		(3+)	95 s 3
194BI	145	50	(6+, 7+)	125 s 2
194BI	161	8	(10-)	115 s 4

## Levels Results

195BI	0.0	[9/2-]	183 s 4
195BI	401 7	[1/2+]	87 s 1
196BI	0.0	(3+)	308 s 12
196BI	169 4	(7+)	0.6 s 5
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
198BI	248.5+X 5	10-	7.7 s 5
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
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
209BI	0.0	9/2-	$2.01 \times 10^{19}$ y 8
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
219BI	0	(9/2-)	22 s 7
220BI	0		> 300 ns
221BI	0		> 300 ns
223BI	0		> 300 ns
195PO	0.0	(3/2-)	4.64 s 9
195PO	≈230	(13/2+)	1.92 s 2
196PO	0.0	0+	5.8 s 2
197PO	0.0	(3/2-)	84 s 16
197PO	204 <i>Syst.</i>	(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

## Levels Results

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
207PO	1383.16	7	19/2-	2.79 s 8
208PO	0.0		0+	2.898 y 2
209PO	0.0		1/2-	124 y 3
210PO	0.0		0+	138.376 d 2
211PO	1462	5	(25/2+)	25.2 s 6
212PO	2930	10	(18+)	45.1 s 6
217PO	0.0		(9/2+)	1.53 s 5
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
197AT	52	10	(1/2+)	2.0 s 2
198AT	0.0		(3+)	4.2 s 2
198AT	102+X		(10-)	1.21 s 6
199AT	0		(9/2-)	7.03 s 15
200AT	0		(3+)	43.1 s 8
200AT	112.9	29	(7+)	47 s 1
200AT	343.8	29	(10-)	6.3 s 5
201AT	0.0		9/2-	87.6 s 13
202AT	0		(2+, 3+)	184 s 1
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
218AT	0		(3-, 2-)	1.28 s 6
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
200RN	0.0		0+	1.03 s 3
201RN	0.0		(3/2-)	7.0 s 4
201RN	245	12	13/2+	3.8 s 1
202RN	0		0+	9.7 s 1
203RN	0.0		3/2-	44.2 s 16
203RN	362	4	13/2+	26.9 s 5
204RN	0		0+	74.5 s 14
205RN	0.0		5/2-	170 s 4

			Levels Results
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
219RN	0.0	5/2+	3.96 s 1
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
227RN	0.0	(5/2)	20.2 s 4
228RN	0.0	0+	65 s 2
229RN	0		12.0 s +12-13
204FR	0	(3+)	1.8 s 3
204FR	41 7	(7+)	1.6 s +5-3
204FR	316 7	(10-)	0.8 s 2
205FR	0.0	9/2-	3.90 s 7
206FR	0	(2+, 3+)	≈ 16 s
206FR	0.0+X	(7+)	≈ 16 s
207FR	0	9/2-	14.8 s 1
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
220FR	0	1+	27.4 s 3
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
230FR	0.0		19.1 s 5
231FR	0.0	(1/2+)	17.6 s 6
232FR	0.0	(5)	5.5 s 6
233FR	0	(1/2+)	0.9 s 1
207RA	0	(3/2-, 5/2-)	1.35 s -13+22
208RA	0.0	0+	1.3 s 2
209RA	0.0	5/2-	4.8 s 2
210RA	0.0	0+	3.7 s 2
211RA	0.0	5/2 (-)	13 s 2
212RA	0.0	0+	13.0 s 2
213RA	0.0	1/2-	2.73 m 5
214RA	0.0	0+	2.438 s 20
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
224RA	0	0+	3.6316 d 23
225RA	0.0	1/2+	14.9 d 2

## Levels Results

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
214AC	0.0	5(+)	8.2	s	2
222AC	0	1-	4.9	s	5
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
215TH	0.0	(1/2-)	1.2	s	2
224TH	0.0	0+	1.04	s	2
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+	7.54×10 <sup>+4</sup>	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 <sup>10</sup>	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
225PA	0.0		1.7	s	2
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

## Levels Results

<a href="#">227U</a>	0.0	(3/2+)	1.1 m 1
<a href="#">228U</a>	0.0	0+	9.1 m 2
<a href="#">229U</a>	0.0	(3/2+)	58 m 3
<a href="#">230U</a>	0.0	0+	20.23 d 2
<a href="#">231U</a>	0.0	(5/2-)	4.2 d 1
<a href="#">232U</a>	0	0+	68.9 y 4
<a href="#">233U</a>	0.0	5/2+	$1.5919 \times 10^5$ y 15
<a href="#">234U</a>	0.0	0+	$2.455 \times 10^{+5}$ y 6
<a href="#">234U</a>	851.74 3	2+	$\geq 1.74$ ps
<a href="#">235U</a>	0.0	7/2-	$7.04 \times 10^{+8}$ y 1
<a href="#">235U</a>	0.0760 4	1/2+	$\approx 26$ m
<a href="#">236U</a>	0.0	0+	$2.342 \times 10^7$ y 4
<a href="#">237U</a>	0.0	1/2+	6.752 d 2
<a href="#">238U</a>	0.0	0+	$4.468 \times 10^9$ y 6
<a href="#">239U</a>	0	5/2+	23.45 m 2
<a href="#">239U</a>	0.0+X	(5/2+)	$> 0.25$ $\mu$ s
<a href="#">240U</a>	0	0+	14.1 h 1
<a href="#">242U</a>	0.0	0+	16.8 m 5
<a href="#">228NP</a>	0.0		61.4 s 14
<a href="#">229NP</a>	0.0		4.0 m 2
<a href="#">230NP</a>	0.0		4.6 m 3
<a href="#">231NP</a>	0	(5/2-)	48.8 m 2
<a href="#">232NP</a>	0	(4+)	14.7 m 3
<a href="#">233NP</a>	0.0	(5/2+)	36.2 m 1
<a href="#">234NP</a>	0.0	(0+)	4.4 d 1
<a href="#">235NP</a>	0	5/2+	396.1 d 12
<a href="#">236NP</a>	0	6 (-)	$1.55 \times 10^{+5}$ y 1
<a href="#">236NP</a>	57 51	1 (-)	22.5 h 4
<a href="#">237NP</a>	0.0	5/2+	$2.144 \times 10^{+6}$ y 7
<a href="#">238NP</a>	0.0	2+	2.099 d 2
<a href="#">239NP</a>	0	5/2+	2.356 d 3
<a href="#">240NP</a>	0.0	(5+)	61.9 m 2
<a href="#">240NP</a>	0+X	(1+)	7.22 m 2
<a href="#">241NP</a>	0.0	5/2+	13.9 m 2
<a href="#">242NP</a>	0.0	(1+)	2.2 m 2
<a href="#">242NP</a>	0.0+X	(6+)	5.5 m 1
<a href="#">243NP</a>	0.0	(5/2)	1.85 m 15
<a href="#">244NP</a>	0.0	(7-)	2.29 m 16
<a href="#">228PU</a>	0.0	0+	1.1 s +20-5
<a href="#">229PU</a>	0.0	(3/2+)	90 s +71-27
<a href="#">230PU</a>	0.0		102 s 10
<a href="#">231PU</a>	0	(3/2+)	8.6 m 5
<a href="#">232PU</a>	0	0+	33.8 m 7
<a href="#">233PU</a>	0		20.9 m 4
<a href="#">234PU</a>	0.0	0+	8.8 h 1
<a href="#">235PU</a>	0	(5/2+)	25.3 m 5
<a href="#">236PU</a>	0	0+	2.858 y 8
<a href="#">237PU</a>	0.0	7/2-	45.64 d 4
<a href="#">238PU</a>	0.0	0+	87.7 y 1
<a href="#">239PU</a>	0	1/2+	24110 y 30
<a href="#">240PU</a>	0.0	0+	6561 y 7
<a href="#">241PU</a>	0.0	5/2+	14.329 y 29
<a href="#">242PU</a>	0.0	0+	$3.73 \times 10^{+5}$ y 2
<a href="#">243PU</a>	0.0	7/2+	4.956 h 3
<a href="#">244PU</a>	0.0	0+	$8.13 \times 10^{+7}$ y 3
<a href="#">244PU</a>	1211.2 8	8-	1.75 s 12
<a href="#">245PU</a>	0	(9/2-)	10.54 h 6
<a href="#">246PU</a>	0	0+	10.84 d 2
<a href="#">247PU</a>	0.0	(1/2+)	2.27 d 23

## Levels Results

<a href="#">229AM</a>	0		0.9 s +21-7
<a href="#">230AM</a>	0.0		31 s
<a href="#">232AM</a>	0		79 s 2
<a href="#">233AM</a>	0		3.2 m 8
<a href="#">234AM</a>	0.0		2.32 m 8
<a href="#">235AM</a>	0.0	5/2-	10.3 m 6
<a href="#">236AM</a>	0.0	5-	3.6 m 2
<a href="#">236AM</a>	X	(1-)	2.9 m 2
<a href="#">237AM</a>	0.0	5/2 (-)	73.6 m 8
<a href="#">238AM</a>	0.0	1+	98 m 2
<a href="#">239AM</a>	0	(5/2) -	11.9 h 1
<a href="#">240AM</a>	0	(3-)	50.8 h 3
<a href="#">241AM</a>	0.0	5/2-	432.6 y 6
<a href="#">242AM</a>	0.0	1-	16.01 h 2
<a href="#">242AM</a>	48.603 9	5-	141 y 2
<a href="#">243AM</a>	0.0	5/2-	7364 y 22
<a href="#">244AM</a>	0.0	(6-)	10.1 h 1
<a href="#">244AM</a>	89.5 16	1+	26 m
<a href="#">245AM</a>	0.0	5/2+	2.05 h 1
<a href="#">246AM</a>	0.0	(7-)	39 m 3
<a href="#">246AM</a>	0.0+X	2 (-)	25.0 m 2
<a href="#">247AM</a>	0.0	(5/2)	23.0 m 13
<a href="#">233CM</a>	0		23 s +13-6
<a href="#">234CM</a>	0.0	0+	51 s 12
<a href="#">236CM</a>	0	0+	6.8 m 8
<a href="#">238CM</a>	0.0	0+	2.2 h 4
<a href="#">239CM</a>	0	(7/2-)	2.7 h 8
<a href="#">240CM</a>	0	0+	27 d 1
<a href="#">241CM</a>	0.0	1/2+	32.8 d 2
<a href="#">242CM</a>	0.0	0+	162.88 d 8
<a href="#">243CM</a>	0.0	5/2+	29.1 y 1
<a href="#">244CM</a>	0.0	0+	18.11 y 3
<a href="#">244CM</a>	0+X		> 500 ns
<a href="#">245CM</a>	0.0	7/2+	8423 y 74
<a href="#">246CM</a>	0	0+	4706 y 40
<a href="#">247CM</a>	0.0	9/2-	$1.56 \times 10^{+7}$ y 5
<a href="#">248CM</a>	0.0	0+	$3.48 \times 10^{+5}$ y 6
<a href="#">249CM</a>	0	1/2+	64.15 m 3
<a href="#">250CM</a>	0.0	0+	$\approx 8.3 \times 10^{+3}$ y
<a href="#">251CM</a>	0	(1/2+)	16.8 m 2
<a href="#">252CM</a>	0.0	0+	< 2 d
<a href="#">233BK</a>	0		21 s +48-17
<a href="#">234BK</a>	0.0		$1.4 \times 10^2$ s +14-5
<a href="#">236BK</a>	0	(4+, 6-)	22 s +13-6
<a href="#">238BK</a>	0.0		144 s 5
<a href="#">240BK</a>	0		4.8 m 8
<a href="#">241BK</a>	0.0	(7/2+)	4.6 m 4
<a href="#">242BK</a>	0.0		7.0 m 13
<a href="#">243BK</a>	0.0	(3/2-)	4.6 h 2
<a href="#">244BK</a>	0.0	(4-)	5.02 h 3
<a href="#">245BK</a>	0.0	(3/2-)	4.96 d 3
<a href="#">246BK</a>	0.0+X	2 (-)	1.80 d 2
<a href="#">247BK</a>	0.0	3/2-	1380 y 250
<a href="#">248BK</a>	0.0+Z	(6+, 8-)	> 9 y
<a href="#">248BK</a>	0.0+X	1 (-)	23.7 h 2
<a href="#">249BK</a>	0.0	7/2+	330 d 4
<a href="#">250BK</a>	0.0	2-	3.212 h 5
<a href="#">251BK</a>	0	(3/2-)	56 m 1
<a href="#">253BK</a>	X		> 10 m
<a href="#">237CF</a>	0.0		2.1 s 3

## Levels Results

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
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
240ES	0	(1+)	6 s 2
241ES	0.0		8 s +6-5
242ES	0.0		17.8 s 16
243ES	0.0+X	(7/2+)	21 s 2
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
245FM	0.0	(1/2+)	5.6 s 7
246FM	0	0+	1.54 s 4
247FM	0.0	(7/2+)	31 s 1
247FM	45 7	(1/2+)	5.1 s 2
248FM	0	0+	34.5 s 12
249FM	0	(7/2+)	2.6 m 7
250FM	0.0	0+	30 m 3
250FM	0.0+X		1.8 s 1
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
259FM	0		1.5 s 2
246MD	0+X		0.9 s 2
246MD	0+Y		4.4 s 8
247MD	0.0	(7/2-)	1.2 s 1
248MD	0.0		7 s 3
249MD	0.0	(7/2-)	21.7 s 20

			Levels Results
249MD	0.0+X	(1/2-)	1.9 s 9
250MD	0.0		52 s 6
251MD	0	7/2-	4.27 m 11
251MD	≥844	(23/2+)	1.4 s 3
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
251NO	106 6	(1/2+)	1.00 s 4
252NO	0	0+	2.46 s 2
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
256NO	0.0	0+	2.91 s 5
257NO	0	(3/2+)	24.5 s 5
259NO	0	(9/2+)	58 m 5
253LR	0+Y	(1/2-)	1.49 s +30-21
254LR	0		18.1 s 18
255LR	0.0	[1/2-]	31.1 s 11
255LR	38 10	[7/2-]	2.54 s 5
255LR	878.8+Y 10	(19/2-)	≥ 10 ns
256LR	0.0		27.9 s 10
257LR	0		≈ 4 s
258LR	0		3.92 s 33
259LR	0.0		6.2 s 3
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
255RF	0.0	(9/2-)	1.68 s 9
257RF	0.0	(1/2+)	4.4 s +6-5
257RF	≈75	(11/2-)	4.1 s 4
259RF	0.0		2.4 s 4
261RF	X		68 s +3-3
261RF	234+X 57		1.9 s 4
262RF	0.0	0+	2.3 s 4
263RF	0.0		10 m 2
265RF	0		1.0 m +12-3
267RF	0		1.3 h +23-5
255DB	0		1.6 s +6-4
256DB	0.0		1.6 s +5-3
257DB	0.0	(9/2+)	2.3 s 2
258DB	0.0	(5+, 6+)	4.3 s 5
258DB	0+X	(1-)	1.9 s 5
258DB	0+Y		20 s 10
260DB	0.0		1.52 s 13
261DB	0.0		1.8 s 4
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

## Levels Results

270DB	0				15 h +10-4
263SG	0.0				1.0 s 2
265SG	X				14.4 s +37-25
265SG	152+X 71				8.5 s +26-16
267SG	0				84 s +55-24
269SG	0				1.3×10 <sup>2</sup> s +10-4
271SG	0				96 s +88-31
264BH	0.0				0.44 s +60-16
266BH	0				2.1 s +29-8
267BH	0				14 s +6-3
270BH	0				1.0 m +49-5
271BH	0				1.5 s +28-6
272BH	0.0				10.5 s +15-11
274BH	0				44 s +34-13
278BH	0				19 m +55-5
267HS	X				0.8 s +40-4
268HS	0	0+			0.4 s +18-2
269HS	0				13 s +10-4
270HS	0	0+			7.6 s +49-22
278HS	0	0+			19 m +55-5
270MT	0				0.48 s +66-18
274MT	0				0.44 s +81-17
276MT	0+X				4 s +5-1
278MT	0				4.5 s +35-13
282MT	0				1.1 m +53-5
281DS	0				12 s +4-2
282DS	0	0+			1.1 m +53-5
280RG	0				4.4 s +5-4
281RG	0				15 s +4-3
282RG	0				100 s +70-30
286RG	0				11 m +51-5
283CN	0				4.6 s +10-7
285CN	0				33 s +10-6
286CN	0	0+			11 m +51-5
284NH	0				0.97 s +12-10
285NH	0				0.93 s +45-23
286NH	0				9.5 s +63-27
290NH	0				2 s +10-1
289FL	0				2.4 s +8-5
290FL	0	0+			19 s +91-9
290MC	0				0.65 s +49-20

## Gamma Information

E <sub>level</sub> (keV)	Jπ	T <sub>1/2</sub>	E <sub>γ</sub> (keV)	I <sub>γ</sub>	γ mult.	γ mix. ratio
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	3153.5	8 4		
3153.5 17	5/2+	≥ 0.7 ps	3057.5	92 4		
6500.0 9	11/2+	> 2.4 eV	3720.2	55	M1	
6500.0 9	11/2+	> 2.4 eV	1852	45	M1	
4635 4	13/2+	> 0.7 ps	1840	100	E2	
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		
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		
1058 2	0+	> 7 ns	172	100	[E2]	
1058 2	0+	> 7 ns	1058		[E0]	

## Levels Results

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	2919.99	59.7 16	[E1]	
3977.91 9	0-	> 1.0 ps	2127.20	100.0 16	[E1]	
3977.91 9	0-	> 1.0 ps	1906.19	1.5 3	[E1]	
5785.7 16	(0,1,2)+	≥ 0.8 ps	3844.0 15	100		
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]	
2228.6 4	2(-)	> 2 ps	1799.7 6	100 16	[E1]	
2320.6 4	3(-)	> 7 ps	1891.4 5	100	(E1(+M2))	+0.07 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
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
7920.1 10		> 0.35 ps	1683 1	100 6	D,E2	
7920.1 10		> 0.35 ps	1726 1	49 6	D,E2	
3667.5 10		> 1 ps	1456.6 11	100		
5391.4 9	2+	> 0.2 ps	816.2 4	18 9		
5391.4 9	2+	> 0.2 ps	5391.0	100 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	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		
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		
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		
5540.8 11	3-	> 0.7 ps	1996.2	56 9	D,E2	
5540.8 11	3-	> 0.7 ps	5079.9	<3		
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		
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		
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		
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		
396.42 7	1/2+	> 1.4 ps	396.42 7	100		
1301.21 15	(5/2+)	> 2.1 ps	1301.1 3	100.0 21		
1301.21 15	(5/2+)	> 2.1 ps	904.8 5	6.6 21	[E2]	
1785.86 18	(7/2-)	> 1.4 ps	484.64 10	100	[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		
2423.7 3	(9/2+)	> 1.2 ps	637.7 3	100 5	[E1]	
2834.3 3	(11/2+)	> 1.2 ps	1089.2 4	15 4	[E2]	
2834.3 3	(11/2+)	> 1.2 ps	410.65 13	100 4		
3873 3	0+	> 187 fs	1782 3	100	[E2]	
3873 3	0+	> 187 fs	585	<43		
4329.1 7	(0,1,2)+	> 485 fs	2358.6	100		
4329.1 7	(0,1,2)+	> 485 fs	4328.8	<10		
5974.8 2	(0+:3-)	> 1.7 ps	1409.3	30 3		

## Levels Results

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		
5974.8 2	(0+:3-)	> 1.7 ps	1494.8	<3		
5974.8 2	(0+:3-)	> 1.7 ps	3807.1	100 5		
6249.9 3	2+	> 111 fs	2313.3	<10		
6249.9 3	2+	> 111 fs	900.5	16.9 26		
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		
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		
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		
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		
7289.6 8	(3-,4+)	> 55 fs	x			
7289.6 8	(3-,4+)	> 55 fs	3479.2	100 8		
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)	
7508.12 22	7-	≥ 42 fs	1850 1	8 3	[E2]	
2358.284 11	1/2+	> 0.42 ps	1091.056 8	100.0 20		
2358.284 11	1/2+	> 0.42 ps	840.775 25	5.50 13		
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		
2829.934 17	1/2+	> 0.69 ps	1312.360 20	87.0 21		
4230 2	4(-)	> 2.8 ps	547 2	89 4	D+Q	-10 +3-9
4230 2	4(-)	> 2.8 ps	1338 2	100 4	D(+Q)	+0.6 +4-8
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	914.4	<4		
2285.24 12	(5/2+,7/2+)	> 243 fs	905.0	<4		
2285.24 12	(5/2+,7/2+)	> 243 fs	2285.2	100	(Q+O)	+0.10 5
3703.7 4	(1+,2,3+)	> 0.76 ps	1302.6 3			
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
2494.91 3	9/2+	> 3.1 ps	817.659 9	100 3	M1+E2	+0.38 2
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	1086			
3882 2	(3/2-,5/2,7/2+)	> 1.7 ps	3882			
3300.0 4	0+	> 0.9 ps	875.8	100 1	E2	
3300.0 4	0+	> 0.9 ps	1775.3	8 4	E2	
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
3913.80 8	5-	> 2 ps	869.47 15	100 5	(E1)	0.0
1554.37 8	(11/2-)	> 2.1 ps	1554.34 8	100	(E2 (+M3))	0.00 6
2877.99 12	(15/2-)	> 2.1 ps	1323.60 9	100	(E2 (+M3))	0.00 6
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	2578.26 12	42.2 17	(M2)	0.0

## Levels Results

2578.33 10	3/2+	> 12 ps	564.79 8	100.0 19	(E1)	0.0
2599.53 11	1/2+	> 1 ps	586.01 8	100.0 18	(E1)	0.0
2599.53 11	1/2+	> 1 ps	2599.40 20	1.31 9	(E3)	0.0
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		
2269.14 4	2+	> 70 fs	1658	42 6	D(+Q)	-0.06 6
2433.62 18	4+	> 0.14 ps	942.9 2	92 8	(M1+E2)	-0.48 11
2433.62 18	4+	> 0.14 ps	922.7 3	100 9	(M1+E2)	+0.40 9
2910.3 7	4+	> 0.8 ps	1419.0 12		D+Q	-0.14 7
2995.53 7	4+	> 0.14 ps	772.6 1	100 5	(M1)	
2995.53 7	4+	> 0.14 ps	606.47	25 13		
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]	
3224.01 20	(5+)	> 0.21 ps	834.9 4	83 9	[E2]	
3224.01 20	(5+)	> 0.21 ps	1713	55 6		
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	3102.9			
3718.6 5	(5+)	> 70 fs	723.0 3			
2383.1 4	3/2(+)	> 0.31 ps	731.9	100		
2383.1 4	3/2(+)	> 0.31 ps	1527.6	45	(M1+E2)	+0.49 7
3142.05 12	13/2+	> 0.55 ps	588.2 1	9.4 3	(M1+E2)	
3142.05 12	13/2+	> 0.55 ps	1209.8 1	100 3	E2	
271.241 10	6+	58.61 h 10	271.241 10	100	E4	0.0
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)	
531.42 14	3(-)	> 3.8 ps	296.77 20	100 4	(M1 (+E2))	-0.02 3
2106.3 3	15/2-	> 1.4 ps	869.57 13	100	E2	0.0
142.528 7	1-	18.75 s 4	142.528 8	100.0	E3	0.0
2148.2 5		> 2 ps	1001.2 5	100	D(+Q)	+0.10 13
3991.0 9	1/2+	≥ 0.7 ns	1762			
3991.0 9	1/2+	≥ 0.7 ns	1620.0 15			
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	1238 2	43	D,Q	
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
4564.8 3	8(+)	> 3.5 ps	1231.6 5	100.0 22	(E2)	8.0
4564.8 3	8(+)	> 3.5 ps	1056.2 10	11.1 22	[E2]	0.0
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	2863	30 8		
7427.9 7	9,7	> 0.7 ps	2230	21 5		
7427.9 7	9,7	> 0.7 ps	1393	100 9		
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	1045.5 5	28 12		
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		
1677.4 4	3+	> 0.32 ps	375.5 4	100 16		

## Levels Results

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			
1752.5 7	3+, 4+, 5+	> 1.3 ps	1526				
1752.5 7	3+, 4+, 5+	> 1.3 ps	1432				
1752.5 7	3+, 4+, 5+	> 1.3 ps	1397				
1812.8 15	(2,3)+	> 2.9 ps	1457 2	100 44			
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				
2546.4 6	1/2+	> 0.7 ps	1619 1	100	E1		
3385.587 23	13/2-	> 0.87 ps	1776.38 4	100 20	M1+E2		
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			
1266.0 9	(7/2, 9/2)-	> 1.1 ps	1265.7 16	100 13			
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			
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	811.9 3	37 7	0.0		
4876.0 4	(6-)	> 0.7 ps	1342.6 3	100 17	[E2]	0.0	
1703.2 4	1/2-	> 3.8 ps	1703.2 5	100	E2	0.0	
1981.8 3	3/2+	> 1.39 ps	240	2.4 6	(E1)	0.0	
1981.8 3	3/2+	> 1.39 ps	1709.5 5	16 3	(M2+E3)	-0.23 21	1.4
1981.8 3	3/2+	> 1.39 ps	278.1 7	26 3	(E1(+M2))	0.0	
1981.8 3	3/2+	> 1.39 ps	1981.3 5	100 3	(E1+M2)	0.0	
2978.7 5	(3/2+)	> 0.69 ps	1237	25 5	(E1)	1.2	
2978.7 5	(3/2+)	> 0.69 ps	547	100 11			
2978.7 5	(3/2+)	> 0.69 ps	997	27 5	(M1)	6.8	
2978.7 5	(3/2+)	> 0.69 ps	401	59 11			
2978.7 5	(3/2+)	> 0.69 ps	2979		(E1)	0.0	
2978.7 5	(3/2+)	> 0.69 ps	810	40 7	(E1)	0.0	
3892.2 4	13/2+	> 6.9 ps	2332 1	100	(E1)	0.0	
3892.2 4	13/2+	> 6.9 ps	364.4 4	15.6	E1	0.0	
3892.2 4	13/2+	> 6.9 ps	1395 1	15.6	(E1)	0.0	
3892.2 4	13/2+	> 6.9 ps	702.2 5	9.6	(E1)	0.0	
3785.71 12	(4)+	> 2.8 ps	1961.53 11	100 10			
3785.71 12	(4)+	> 2.8 ps	626.56 27	7 3			
3785.71 12	(4)+	> 2.8 ps	563.68 19	42 2			
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	850.1 10	39 9			
2681.8 10	(4+)	≥ 0.7 ps	359 13	31 9			
2681.8 10	(4+)	≥ 0.7 ps	1680 15	100 12			
3251.84 17	6+	≥ 0.7 ps	1175.1 1	100	E2		
4447.79 20	(7-)	≥ 0.7 ps	606.5 1	37 5			
4447.79 20	(7-)	≥ 0.7 ps	1196.3 2	100 3	D		
1917.11 12	5+	> 0.7 ps	773.6 1	100 5	E2		
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	135.5 2	23			
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	(E1)		

## Levels Results

2275.9 2	1/2+	> 1.2 fs	458.8 2	100 4	(E1)		
2701.6 5	3/2-	> 0.5 ps	742.5 5	75 9	M1+E2		
2701.6 5	3/2-	> 0.5 ps	391.6 5	100 9	M1+E2		
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				
9471.3 9	25/2-,27/2	> 0.69 ps	1579.9 6	6.1 20	D		
9471.3 9	25/2-,27/2	> 0.69 ps	1386.1 5	25 4	Q		
9471.3 9	25/2-,27/2	> 0.69 ps	2294.7 10	100 6	D		
377.749 5	2+	21.1 m 2	377.748 5	100	[E4]	0.0	
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			
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			
3007.13 18	(5/2) +	> 0.84 ps	3007.3	28			
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	
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	966.37 28	15 7			
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			
1227.5 11	-	> 0.35 ps	152.35 16	9 1			
1227.5 11	-	> 0.35 ps	1144.29 17	100 1			
71.77 5	4+	65.4 s 5	71.78 5	100	M3	14.0	
271.80 10	4+	1.77 s 2	271.9 1	100	M3	0.0	
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	1887 1	19 5	(E2)		
3294.8 4	4+	≥ 2.1 ps	756.6 3	100 5	M1+E2	0.15 5	
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	5
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	2205.8	100			
2220.2	(7/2-)	> 0.3 ps	2083.8	94	(M1+E2)		
2220.2	(7/2-)	> 0.3 ps	1853.3	10			
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	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			
3958.20 18	6(-)	> 0.4 ps	441.9 1	47 2			
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			

## Levels Results

4296.49 18	7 (-)	> 0.4 ps	364.5 1	37 1		
402 5	(9/2+)	1.12 s 15	5 Calc.		[M2]	
3942.09 11	1/2-, 3/2-	> 120 fs	1003.0 4	9 4		
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		
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
829.61 5	4+	> 1.7 ps	671.18 8	100 2	M1+E2	-0.09 12
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	670.1 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		
2153.62 20		≥ 14 fs	694.02 14	100	D(+Q)	
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		
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		
58.59 1	2+	10.467 m 6	58.603 7	100	M3+(E4)	<0.02
995.05 13	3/2-	> 10 ps	994.8 2	100		
642	(8-)	> 100 μs	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	2284.87		E0	
2284.80 4	0+	> 1.5 ps	952.4 2	100		
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		
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		
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		
4077.99 5	1+, 2+	> 12 fs	2745.47 6	100 3		
2129.0 3	11/2-	> 2 ps	1113.8 3	100	E2	
3426.34 20	13/2-	> 0.7 ps	1438.52 14	100 4	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	
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
4019.36 21	15/2+	> 1.4 ps	720.5 6	127 12	Q	
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	2403.25 7	100 9	E2+M1	+1.23 10
3748.99 6	2+	> 0.5 ps	1473	20		
3748.99 6	2+	> 0.5 ps	3748.77 8	29.6 15		
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		
1427.85 25	2+	> 0.66 ps	1225.1	1.7 5	[E2]	
1549.5 3	(4+)	> 0.34 ps	1105.8 3	100	(M1+E2)	-0.77 5

Levels Results								
1647.41	18	(3+)	> 0.90 ps	1647.4	2	100	8	
1647.41	18	(3+)	> 0.90 ps	596		<5		
1647.41	18	(3+)	> 0.90 ps	1445		<19		
1647.41	18	(3+)	> 0.90 ps	220		<4.3		
1647.41	18	(3+)	> 0.90 ps	1203.5		27	8	
914.2	4	5/2-	> 1.1 ps	913.90	12	100	3	
914.2	4	5/2-	> 1.1 ps	422.6	2	0.7	2	
1732.58	5	7/2-	> 1.4 ps	762.5	1	19.8	16	
1732.58	5	7/2-	> 1.4 ps	422.0	2	44.4	26	
1732.58	5	7/2-	> 1.4 ps	1732.54	7	100	3	
1732.58	5	7/2-	> 1.4 ps	338.6	2	9.9	8	
2627.12	9	11/2-	> 350 fs	331.6	4	2.7	3	
2627.12	9	11/2-	> 350 fs	290.4	2	1.7	1	
2627.12	9	11/2-	> 350 fs	1316.8	1	100	3	
2720.34	9	9/2+	> 2.8 ps	987.6	2	68	9	
2720.34	9	9/2+	> 2.8 ps	109.5	2	8.3	13	
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	
2720.34	9	9/2+	> 2.8 ps	320.9	2	2.2	5	
426.18	6	3+	> 0.16 ps	385.28	7	100		
548.31	5	1+	> 0.17 ps	260.43	7	8.8	5	
548.31	5	1+	> 0.17 ps	507.60	10	97	5	
548.31	5	1+	> 0.17 ps	304.88	9	1.9	1	
548.31	5	1+	> 0.17 ps	548.35	11	100	5	
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	
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	
2808.10	8	3/2-	> 0.18 ps	2808.1	1	100	32	
2808.10	8	3/2-	> 0.18 ps	1261.0	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	
5413.0	3	(17/2+)	> 2 ps	836.3	2	100		
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	
2094.34	14	(7/2)-	> 1 ps	978.8	3	100	3	
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	110.74	6	100	3
721.26	8	6-	3.75 m	5	637.14	6	64.4	18
101.1	3	3-	33 s	2	101.1	3	100	
242.6	5	1+	6.6 s	2	141.3		100	
5131.0	4	(6-)	> 0.7 ps	1087.8	3	100		
637.07	6	3/2-	> 0.53 ps	389.26	9	4.2	4	
637.07	6	3/2-	> 0.53 ps	637.04	7	100.0	4	
650.10	4	5/2-	> 0.28 ps	650.14	6	100	1	
650.10	4	5/2-	> 0.28 ps	457.19	6	16	1	
1023.22	5	3/2-	> 3.5 ps	775.43	8	71	4	
1023.22	5	3/2-	> 3.5 ps	396.10	10	17	1	
1023.22	5	3/2-	> 3.5 ps	1023.22	8	70	3	
1023.22	5	3/2-	> 3.5 ps	373.06	8	100	5	
1063.34	7	7/2-	> 0.29 ps	413.2	1	28	2	
1063.34	7	7/2-	> 0.29 ps	1063.2	2	100	2	
1063.34	7	7/2-	> 0.29 ps	870.25	10	24	1	
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	

## Levels Results

1206.38 7	7/2-	> 0.42 ps	556.3 2	4.3 4	D+Q	-1.24 9
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
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	1716.3 2	32 2	D+Q	
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	
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
2233.30 23	11/2-	> 1.4 ps	1169.6 4	100 5		
2288.31 17	7/2-	> 0.21 ps	1638.2 2	100 3	D+Q	
2288.31 17	7/2-	> 0.21 ps	1081.9 3	47 3		
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	1333.112 5	100.0 4	E2	0.0
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	
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	300.219 10	100 2	M1+E2	-0.18 1
393.531 7	3/2-	> 2.4 ps	208.951 10	14.0 4	M1+E2	-0.034 21
393.531 7	3/2-	> 2.4 ps	393.529 10	28.0 1	M1+E2	0.043 10
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
772.440 15	1/2-	1.05 s 10	772.43 2	100	[E3]	0.0
1975.2 11		> 0.09 ps	1976.6 16	100		
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		
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		
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	1131.8 9		M1+E2	-3.7 1
2653.4 9	11/2-	> 1.04 ps	1451.3 4			

## Levels Results

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	1451	2					
3525.3	4	9/2+,13/2+	> 1.04 ps	493.5	4					
3628.6	7	13/2+,17/2+	> 0.48 ps	596.8	7	100				
1525.76	4	3/2-	≥ 0.55 ps	951.54	9	10	4	(M1 (+E2))	+0.3	3
1525.76	4	3/2-	≥ 0.55 ps	1525.83	7	68	6	(M1+E2)	-0.38	7
1525.76	4	3/2-	≥ 0.55 ps	418.51	6	18.4	18	(M1 (+E2))	+0.05	7
1525.76	4	3/2-	≥ 0.55 ps	1207.21	6	100	7	(M1+E2)	+0.14	2
1924.25	4	7/2-	≥ 0.62 ps	1349.99	5	76	8	(M1+E2)	-2.6	4
1924.25	4	7/2-	≥ 0.62 ps	587.64	8	69	7	(M1 (+E2))	0.00	7
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			
1924.25	4	7/2-	≥ 0.62 ps	816.9	10	8.4	8			
1972.37	5	9/2(+)	≥ 2.8 ps	484.29	7	24	3	(E1 (+M2))	+0.00	2
1972.37	5	9/2(+)	≥ 2.8 ps	1397.94	14	7.1	17	(M2 (+E3))	-0.06	12
1972.37	5	9/2(+) 19	≥ 2.8 ps	635.71	5	100	7	(E1 (+M2))	-0.01	2
2219.29	19		≥ 0.21 ps	1900.59	20	100				
2219.29	19		≥ 0.21 ps	2218.9	6	41				
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)		1.8
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(+) 19	≥ 1.4 ps	745.61	2	100		(E2 (+M3))	-0.01	3
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
1244.61	10	2	> 500 fs	1244.6	1	100		D+Q	-0.05	4
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]		
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
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]		
59.571	14	(0+)	9.5 s 10	3.2	2			[M2]		2.8
59.571	14	(0+)	9.5 s 10	59.7				[E3]		71
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
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
1613.29	8	7/2-	> 0.69 ps	680.4	4	13	1	M1+E2	+0.04	3
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
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
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

## Levels Results

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	1.1
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	~+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
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		1.1
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)		1.1
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
161.9223 10	7/2+	17.36 s 5	161.9224 11	100	E3		0.8
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			
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			
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			
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			
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			
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			
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]		

## Levels Results

2949.19 16	4-	> 1.4 ps	1095.2 5	56	[E1]	
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)	
4121.2 3	8+	> 0.7 ps	536.2 2	56	M1+E2	-0.4 3
4214.1 4	(8-)	> 1.4 ps	664.0 3	80 10		
4214.1 4	(8-)	> 1.4 ps	1200.1	≈100	[E2]	
4786.9 5	(10+)	> 1.4 ps	161.9 2	≈87		
4786.9 5	(10+)	> 1.4 ps	1202.2 6	<13	[E2]	
4786.9 5	(10+)	> 1.4 ps	955.9 5	100 9	(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	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		
1312.0 3	(7/2-)	> 0.21 ps	947.1	22 2	M1+E2	-1.6 2
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		
2893.66 18	5-	> 131.7 ps	343.3 1	100 17		
100.76 15	(3-)	10.6 s 3	101.3 3	100	(M2)	1.1
102.578 28	(4)+	1.31 s 2	102.6	<1.1	[E3]	7.2
102.578 28	(4)+	1.31 s 2	57.11 2	100 3	M2	9.5
105.86 8	9/2+	4.28 m 10	105.87 10	100	E3	6.1
207.61 9	9/2+	4.85 s 4	207.5 1	100	E3	0.1
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	975.5 3	100 14		
3635.3 4	(7+)	≥ 0.7 ps	1242.1	≈24		
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		
190.64 4	1/2-	13.10 s 3	190.46 16	100	E3	0.4
2192.4 4	(15/2+)	> 2.1 ps	1258.1	≈100		
2192.4 4	(15/2+)	> 2.1 ps	1216.2 4	40 6	D+Q	
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		
3595.14 9	(7-)	> 7 ps	767.1 3	16 5		
3595.14 9	(7-)	> 7 ps	557.2 3	5.3 26		
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	840.5		(E2)	8.1
3496.8 10	(21/2-)	> 1 ps	736.9		[E2]	1.1
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	662.2 2	96 11	(M1)	
5419.30 19	(27/2+)	> 7 ps	107.0 1	100 11	(M1)	0.1
5419.30 19	(27/2+)	> 7 ps	1283.9 1	96 11	(E2)	
556.05 18	6-	1.017 m 3	556.07 18	100	(E4)	0.0

## Levels Results

106.90	3	3-	258 s 4	106.92	15	100	M3	10.1
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	1839.0	2	100 4	D	
3602.64	24	(7-)	> 21 ps	902.1	3	18.0 20	D+Q	
1470.5	5	(13/2+)	≥ 0.76 ps	361.1				
1470.5	5	(13/2+)	≥ 0.76 ps	674.0	4		(E2)	1.5
1910.2	10	(15/2-)	≥ 1.2 ps	855		100	(E2)	8.4
259.15	9	1/2-	4.95 s 12	259.1	1	100	E3	0.1
238.79	5	1/2-	67.63 m 4	238.78	5		M4	1.5
238.79	5	1/2-	67.63 m 4	7.00	6		[E3]	2.0
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	587.5	4	6.7 7	[M1+E2]	
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]	
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		
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		
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
3992.42	7	(0+)	> 0.48 ps	505.9	1	100.0 5	M1	0.0
3992.42	7	(0+)	> 0.48 ps	2156.0	2	15.3 5	[E2]	5.0
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	
228.5	1	(1-)	4.8 s 3	228.5	1	100	M3 (+E4)	<0.05
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)	1.0
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+M2)	-0.14 10
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)	
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		
908.97	3	9/2+	15.663 s 5	908.960	25	100	M4+E5	0.00041 4
4825.38	17	17/2+	≥ 3.5 ps	693.2	2	100 7	E1	
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)	
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
555.58	5	9/2+	49.71 m 4	555.57	5	100	M4	0.0
667.52	23	(9/2)+	1.17 s 3	667.5	5	100	[M4]	0.0
292.2	3	(1/2-)	10.9 s 3	292.2	3	100	[E3]	0.0
335.84	19	1/2-	14.0 s 2	134.93	15	100	E3	2.6
9912.6	5	(19-)	> 0.7 ps	987.35	20	93 17	M1 (+E2)	-0.11 16
9912.6	5	(19-)	> 0.7 ps	1712.50	20	100 7	E2	3.5

## Levels Results

587.82 10	1/2-	4.161 m 10	587.8 1	100	(M4)	0..	
1094.91 18	3/2-	> 0.05 ps	507.4 7	100	(M1)		
1451.23 18	5/2-	> 3.5 ps	863.3 2	100 3	(E2)		
1451.23 18	5/2-	> 3.5 ps	356.4 4	56 3	(M1)		
2085.9 8	(5/2)+	> 2 ps	458	15 6			
2085.9 8	(5/2)+	> 2 ps	991.7	100 6	(E1)		
3111.20 9	(19/2)+	> 2.8 ps	115.89 7	31 10	(M1)	0..	
3111.20 9	(19/2)+	> 2.8 ps	387.08 8	100 7	M1+E2	-0.11 6	
5381.0 4	(27/2)+	> 0.7 ps	1804.1 7	18.9 11	[E2]		
5381.0 4	(27/2)+	> 0.7 ps	643.4 3	100 5	M1		
3448.230 14	6+	> 1.46 ps	1129.224 15	100.0 4	E1	2..	
3448.230 14	6+	> 1.46 ps	371.307 8	1.95 7	E2	0..	
2170.15 15	(11/2)-	> 5.5 ps	38.7 2	2.5 14	[E1]	1..	
2170.15 15	(11/2)-	> 5.5 ps	2170.04 18	100 10	(E3)		
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			
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			
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			
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..
3082.36 3	4+	> 1.4 ps	1185.19 3	100.0 13	E1(+M2)	+0.02 3	0..
3082.36 3	4+	> 1.4 ps	224.8	10.3			
3082.36 3	4+	> 1.4 ps	856.6 2	6.3 13	[E2]	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			
3150.28 3	3-	> 0.54 ps	1252.98 7	66 7	M1+E2	+1.7 3	0..
3150.28 3	3-	> 0.54 ps	711.56 3	100 4	(E1+M2)	-0.07 4	0..
3243.61 7		> 0.097 ps	1018.3 2	100 25			
3243.61 7		> 0.097 ps	574.74 6	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			
69+Y	(1/2-, 3/2-)	3.3 s 9	69		(E2,M2)		
124.67 25	4-	18.91 s 6	2.3 4		[M2,E3]	3E..	
104.60 5	1/2-	60.86 d 22	104.62 5	100	M4	167..	
1790.63 9	(9/2-)	> 1.6 ps	1790.53 13	100.0 5	(E1+M2)	-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	1740.35 15	100 4			
1844.93 13	(5/2)-	> 1.5 ps	657.95 21	54 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			
2120.87 15	(7/2-)	> 1.0 ps	808.4 3	21 4			
30.77 2	1/2-	16.12 y 12	30.77 2	100	M4	1..	
810.32 9	5/2-	> 1.0 ps	123.3 2	<1			
810.32 9	5/2-	> 1.0 ps	779.53 22	100	(E2)	1..	
1082.68 5	9/2+	> 2.8 ps	338.73 7	100.0 17	(E2+M1)	-0.09 2	0..
1082.68 5	9/2+	> 2.8 ps	103.80 11	9 3			
1082.68 5	9/2+	> 2.8 ps	1082.53 15	35 3	M1+E2	>1.8	6..
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	584.97 22	100 4	D+Q	-0.10 2	
1395.42 13	(7/2-)	> 0.55 ps	708.6 2	9 4	[E2]		
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	511.5 2	<2			
2002.52 10	(11/2+)	> 0.55 ps	1052.8 2	100 2	(M1+E2)	-0.63 7	6..

## Levels Results

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]	
2002.52 10	(11/2+)	> 0.55 ps	399.1 2	20 2		
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.
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]	0.0
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	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		
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
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	2179.24 6	100 4	D(+Q)	
3688.77 7	1(-),2,3	> 0.69 ps	838.9 2	15.8 15		
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)	
3814.58 8	2,3	> 0.48 ps	750.8			
3841.87 12	0+	> 0.21 ps	2332.33 11	100	[E2]	
3963.19 16	4+	> 0.21 ps	1113.2 3	55 6		
3963.19 16	4+	> 0.21 ps	899.3 5	100 8		
3963.19 16	4+	> 0.21 ps	2453.77 20	49 6		
3963.19 16	4+	> 0.21 ps	594.9			
2424.95 4	21/2+	6.85 h 7	263.049 13	100.0	E4	0.0
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	451.10 9	100.0 12		
2755.27 8	(11/2-)	> 0.54 ps	1278.10 10	13.6 7		
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	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
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
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
2219.425 14	4+	> 0.38 ps	721.632 18	100.0 9	E2	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
2234.63 4	3-	> 0.277 ps	608.69 7	100.0 13	E1	0.0
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

## Levels Results

2438.477	15	5+	> 0.139 ps	568.869	12	100.0	5	M1+E2	-0.24	3	0..
2440.76	3	6+	> 0.208 ps	812.56	3	100		E2+M3	-0.036	8	0..
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	0..
2481.06	6	(4)+	> 1.01 ps	1702.78	9	33.9	19	E2			0..
2481.06	6	(4)+	> 1.01 ps	611.4	2	25	3				
2611.51	10		> 0.194 ps	983.32	10	1.0E+2	4				
2611.51	10		> 0.194 ps	985.7		9E+1	4				
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				
2734.57	6	(4,5)+	> 0.25 ps	1106.44	8	100	2				
2755.08	3	6+	> 0.194 ps	314.29	4	16.5	14	M1+E2	-0.11	1	0..
2755.08	3	6+	> 0.194 ps	535.78	8	2.7	3	E2+M3	-0.10	3	0..
2755.08	3	6+	> 0.194 ps	1126.94	4	100	4	E2+M3	-0.037	5	0..
2755.08	3	6+	> 0.194 ps	316.43	7	10.7	23	M1+E2	-0.060	5	0..
2755.08	3	6+	> 0.194 ps	885.4	2	0.7	3	E2+M3	-0.10	3	0..
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							
2790.21	6	(2,4)	> 0.68 ps	1164.50	14	60	3				
3416.82	6	4+	> 0.61 ps	1919.33	15	100	3	E2			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..
3416.82	6	4+	> 0.61 ps	229.9	6	10	5				
3416.82	6	4+	> 0.61 ps	2638.55	10	81	3	E2			0..
3416.82	6	4+	> 0.61 ps	976.2	6	25	15				
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..
76	3	(2)+	52.0 m	10	76	3					
38.91	4	1/2-	61 d	2	38.9	1	100	M4			5..
927.81	3	3/2+	≥ 589 fs	888.91	4	66	4	(E1)			0..
927.81	3	3/2+	≥ 589 fs	591.42	5	52.8	8	(E2 (+M3))	+0.15	10	0..
927.81	3	3/2+	≥ 589 fs	301.00	5	100.0	6	(M1+E2)	-0.21	3	0..
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				
1084.97	4	(5/2)+	≥ 347 fs	157.4	3	<1.05		[M1,E2]			0..
1214.55	4	9/2-	≥ 624 fs	546.72	4	100.0	14	E2 (+M3)	-0.16	20	0..
1214.55	4	9/2-	≥ 624 fs	1214.47	10	23	3	D			
1214.55	4	9/2-	≥ 624 fs	878.35	9	24.7	24	D (+Q)			
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				
1416.41	5	3/2,5/2(-)	≥ 492 fs	769.86	6	49.7	9				
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	510.9	3	23	5	(E2)			0..
2212.90	13	(17/2-)	≥ 1.4 ps	697.6	4	9.4	11	[E1]			0..
2212.90	13	(17/2-)	≥ 1.4 ps	663.43	12	100	5	(E1 (+M2))	+0.07	9	0..
3516.0	3	25/2+	> 5 ps	969.0	3	100		E2 (+M3)	-0.03	8	0..
34.23	4	4+	51.5 m	10	34.20	5	100	M3			3..
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..
656.90	6	5/2-	≥ 0.76 ps	560.34	4	100	2	E2			0..
656.90	6	5/2-	≥ 0.76 ps	441.2		<3		[E1]			0..
772.68	6	13/2+	≥ 0.35 ps	772.70	7	100		E2			1..
832.80	6	11/2(+)	≥ 0.35 ps	832.85	7	100		(M1+E2)			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..
855.45	3	7/2+	≥ 0.37 ps	639.72	2	17.7	10	(M1+E2)	-2.3	+6-1	0..

## Levels Results

861.90	8	(9/2+)	$\geq 0.38$ ps	646.78	20	19	9				
861.90	8	(9/2+)	$\geq 0.38$ ps	861.70	10	100	1	(M1+E2)	-0.51	21	1.1
1049.22	7	3/2-	$\geq 0.21$ ps	392.2	1	100	5	(M1)			0.0
1049.22	7	3/2-	$\geq 0.21$ ps	724.7	1	84	18	[E1]			6.8
1049.22	7	3/2-	$\geq 0.21$ ps	469.2	1	61	5	(M1)			0.0
1240.02	7	(7/2-)	$\geq 0.26$ ps	915.7	2	20	6	(E1)			4.1
1240.02	7	(7/2-)	$\geq 0.26$ ps	293.6		35					
1240.02	7	(7/2-)	$\geq 0.26$ ps	659.6	1	88	4	[E2]			0.0
1240.02	7	(7/2-)	$\geq 0.26$ ps	1024.4	2	29	8	[E1]			3.1
1240.02	7	(7/2-)	$\geq 0.26$ ps	583.16	5	100	3	(M1+E2)	-0.34	24	0.0
1441.1	10		$\geq 0.21$ ps	1116.6		100					
1733.3	4	(3/2+, 5/2-, 7/2-)	$\geq 0.54$ ps	1517.6	4	100	5				
1733.3	4	(3/2+, 5/2-, 7/2-)	$\geq 0.54$ ps	1153.0	6	31	21				
142.6836	11	1/2-	6.0072	h 9	2.1726	4		E3			1.4
142.6836	11	1/2-	6.0072	h 9	142.63	3		M4			40.1
734.40	10	(1/2)-	10.8	s 3	734.4	1	100	[M4]			0.0
2588.41	8	5-	$\geq 2.8$ ps	1070.36	5	100		E1+M2	-0.01	4	0.0
3982.8	3	(23/2)-	> 0.9 ps	946.2	3	100					
3982.8	3	(23/2)-	> 0.9 ps	783.1	7			(M1)			1.6
1741.011	8	0+	> 1.39 ps	1201.503	16	100.0	11	(E2)			
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
2075.675	15	6+	> 0.28 ps	849.22	2	100		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]			
2387.22	7	0+	> 0.52 ps	1025.13	17	100	2	[E2]			
2493.06	4	(3,4,5+)	> 0.83 ps	627.83	8	56	7				
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				
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				
2569.912	7	(3)-	> 0.30 ps	329.058	12	1.44	21				
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				
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	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					
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				
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	2529.969	20	100.0	8	D+Q			
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				
3069.525	6	(1,2)-	> 0.45 ps	409.18	8	0.26	3				
3069.525	6	(1,2)-	> 0.45 ps	1707.44	6	6.61	9	[E1]			
3069.525	6	(1,2)-	> 0.45 ps	828.70	4	0.48	8	[E1]			
3069.525	6	(1,2)-	> 0.45 ps	533.52	7	3.5	6	[E1]			
3069.525	6	(1,2)-	> 0.45 ps	3069.44	16	0.09	9	[M2]			
3069.525	6	(1,2)-	> 0.45 ps	154.007	10	1.03	3				
3069.525	6	(1,2)-	> 0.45 ps	1204.46	5	1.16	8	[E1]			
3069.525	6	(1,2)-	> 0.45 ps	600.124	6	9.20	9	M1,E2			0.0
3110.57	11	(2+, 3+)	> 0.26 ps	943.70	16	100		[E1]			
422.22	3	3/2+	$\geq 1.4$ ps	114.6	6	3.1	4				

## Levels Results

422.22 3	3/2+	$\geq 1.4$ ps	422.10 7	33.4 21		
422.22 3	3/2+	$\geq 1.4$ ps	110.94 12	5.8 6		
422.22 3	3/2+	$\geq 1.4$ ps	295.01 3	100 3		
422.22 3	3/2+	$\geq 1.4$ ps	97.5 10	10 5		
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]	5.1
157.32 3	9/2+	4.34 d 1	157.41 4	100	M4	29.1
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 $\mu$ s	268.36 5	100	(E3)	0.1
1875.13 14	(21/2+)	13.3 s 3	524.0 1	100	(E4)	0.0
214.6 3	11/2-	21.3 s 5	214.9 5	100	E3	0.4
1314.23 6	0+	> 25 ps	880.26 7	100	[E2]	
1314.23 6	0+	> 25 ps	383.2 2	20.9 21	[E2]	0.0
188.9903 10	11/2-	4.703 m 9	188.990 1	100	E3	0.1
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 $\mu$ s	62.2 17			
506.2 4	(1/2-)	10.5 s 5	163.6 3	100	E3	1.5
274.1 3	(1/2)-	3.10 s 10	176.2 5	100	E3	1.1
9.40 7	2+	7.7 m 5	9.40 8	100	(M3)	1.1
134.45 4	1/2-	5.7 s 3	134.44 4	100	E3	3.6
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	4.1
88.0337 10	7/2+	39.79 s 21	88.0336 10	100	E3	26.1
117.59 5	6+	249.83 d 4	116.48 5	100	M4	164.9
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	
41.16 10	7/2+	18.0 s 7	41.1 2	100	E3	1.4
47.90 10	(3+)	20 s 1	47.9 1		E3	598 1
129.80 22	(6-)	9.3 s 3	81.9 2	100	E3	37.4
28.6 2	(7/2+)	5.34 s 5	28.6 2	100	E3	1.1
127.63 10	4(+)	2.0 s 2	127.6 1	100	E3	4.6
1004.11 10	2+	> 1.0 ps	1004.1 1	100	(E2)	
6746.16 15	(14-)	> 5.5 ps	665.43 8	58 3	D+Q	
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	
7788.93 18	(16)	> 5.5 ps	1042.76 4	100	Q	
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	
8099.66 13	(17-)	> 1.25 ps	837.98 8	19 13		
8942.69 18	(18-)	> 1.25 ps	433.92 6	30.8 13		
8942.69 18	(18-)	> 1.25 ps	843.46 4	100 4	D+Q	
396.214 21	11/2-	48.50 m 9	150.824 13	100	E3	2.1
2300.68 7	0+	> 623 fs	1683.22 10	100.0 12	E2	5.4
2300.68 7	0+	> 623 fs	831.79 10	48.4 12	E2	1.1
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

## Levels Results

2570.21	6	5-	> 693 fs	565.10	20	31	3	E2	0.0
2571.47	6	6+	> 693 fs	700.89	10	100	3	E2	0.0
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	8.0
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
2591.05	5	4-	> 693 fs	720.44	10	11.7	7	E1	9.0
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
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
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	811.3	1			E1	7.0
2816.71	7	4+	> 416 fs	735.20	10			M1+E2	+4.0 +39-13
2816.71	7	4+	> 416 fs	1401.3	1			M1+E2	6.8
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
2834.27	7	0+	> 347 fs	1521.82	12	26.2	19	E2	5.6
2840.22	11	(4)+	> 485 fs	1424.73	10	100		M1+E2	-1.28 +18-24
2882.82	8	0+	> 693 fs	1570.51	14	28.5	25	E2	5.8
2882.82	8	0+	> 693 fs	1413.86	10	100	5	E2	6.0
2882.82	8	0+	> 693 fs	726.79	14	36	5	E2	0.0
2893.51	6	4+	> 416 fs	811.9	1			M1+E2	0.0
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	6.8
2924.83	5	4-	> 139 fs	1509.36	10	75.9	23	E1	4.0
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
2924.83	5	4-	> 139 fs	919.58	10	100	3	M1+E2	-0.22 10
3066.23	10	(2,3)-	> 207 fs	2448.76	10	100.0	23	E1	1.0
3066.23	10	(2,3)-	> 207 fs	1753.8		56.3	23	E1	6.0
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	5.8
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	4.0
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	1774.30	10	100	4		
3189.82	9	4+, 5, 6+	> 354 fs	1022.09	13	83	4		
3205.74	12	2+, 3, 4	> 111 fs	1790.2					
3205.74	12	2+, 3, 4	> 111 fs	1736.90	12	100			
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
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	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	
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
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)	
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	

## Levels Results

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	
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		
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
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
2298.93 2	5-	> 1.04 ps	366.91 4	3 1		
2298.93 2	5-	> 1.04 ps	1015.178 17	100	E1	
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	
2437.64 8	0+	> 0.90 ps	2437.7 1	14	E0	
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	
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	
2525.420 10	2+	> 0.35 ps	1315.677 22	100 10	M1	
2525.420 10	2+	> 0.35 ps	140.659 3	0.5 1	E1	
2525.420 10	2+	> 0.35 ps	665.735 15	10.0 6	E2	
2525.420 10	2+	> 0.35 ps	2525.1 1	58 10		
2525.420 10	2+	> 0.35 ps	320.835 13	0.7 1	M1	
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	
2525.420 10	2+	> 0.35 ps	1966.80 20	87 16		
2525.420 10	2+	> 0.35 ps	306.560 7	7.6 4	E2+M1	>0.82
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	
2874.26 6	2, 4	> 0.62 ps	1664.77 9	33 1		
2874.26 6	2, 4	> 0.62 ps	916.27 9	19 1		
2874.26 6	2, 4	> 0.62 ps	2316.2 2			
2874.26 6	2, 4	> 0.62 ps	826.11 8	100 2		
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	
2935.76 6	2+	> 0.35 ps	1725.78 20	85 3	M1+E2	-1.5 +1-14
631.7 1	(1/2-)	34 s 2	631.7 1		(M4)	
93.48 10	(3+)	15.7 s 5	93.5 1	100	M3	62.6
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
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
799.851 16	7-	≥ 2.0 ps	386.36 2	23.1 6	E1	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
808.072 21	8-	≥ 2.4 ps	93.44 20	1.67 19	E1	0.2

## Levels Results

808.072 21	8-	$\geq 2.4$ ps	808.09 3	100.0 25	E1	0.0
808.072 21	8-	$\geq 2.4$ ps	8.0 10	0.37 19	[M1+E2]	4E <sup>4</sup>
808.072 21	8-	$\geq 2.4$ ps	394.59 2	42.8 11	E1	0.0
1006.06 3	(5, 6)	$\geq 1.7$ ps	569.06 19	7.2 9		
1006.06 3	(5, 6)	$\geq 1.7$ ps	149.80 2	100 5	M1	0.0
1017.93 4	9-	$\geq 1.2$ ps	209.80 4	100	M1+E2	0.0
1204.87 5	4-, 5-, 6-	$\geq 1.1$ ps	198.81 4	100	M1+E2	0.0
1482.35 6		$\geq 1.8$ ps	277.48 3	100		
536.99 7	1/2-	7.7 m 2	537.22 9	100	M4	0.0
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	0.0
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
289.660 6	8-	2.18 s 4	162.393 7	100	E3	1.0
315.303 11	1/2-	116.2 m 3	315.302 13	100	M4	1.0
≈200	8-	8.5 s 3	138.2 5	100	(E3)	3.0
311.37 3	1/2-	18.0 m 3	311.39 3	100	M4	1.0
313.68 7	1/2-	3.88 m 10	313.60 9	100	M4	1.0
2078.1+X	(21/2-)	$\geq 100$ $\mu$ s	x			
2257.4 3	(17/2) +	$\geq 4$ ns	192.3 2	100	M1 (+E2)	-0.03 3
2190.81 6	0+	$\geq 2.7$ ps	2190.9 5		E0	
2190.81 6	0+	$\geq 2.7$ ps	934.12 4	100	E2	1.0
2476.16 11	2+	$> 2.4$ ps	1219.34 13	20.5 24	M1+E2	-0.54 7
2476.16 11	2+	$> 2.4$ ps	286			
2476.16 11	2+	$> 2.4$ ps	2475.8 3	100.0 24	E2	7.0
2617.62 18	0+	$> 0.4$ ps	1360.92 17	100	E2	7.0
2756.02 9	3+	$> 0.8$ ps	508.8 3		M1+E2	0.2 1
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
2756.02 9	3+	$> 0.8$ ps	401.3 5	2.6 6	[E1]	0.0
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
2765.2 3	0+:4+	$> 1.0$ ps	1508.5 3	100		
2913.07 21	4+	$> 0.6$ ps	665.6 3	100 3	[M1]	0.0
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	5.0
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	470			
2945.70 13	4+	$> 1.1$ ps	1688.7 3	100	E2	5.0
2945.70 13	4+	$> 1.1$ ps	794.5 2		E2	0.0
2986.4 3	0+	$> 1.7$ ps	1729.7 3	100	E2	5.0
3078.53 13	(2, 3) +	$> 1.2$ ps	927.7 2	97 3	M1+E2	0.60 +1-2
3078.53 13	(2, 3) +	$> 1.2$ ps	831.1 4	8.8 19		
3078.53 13	(2, 3) +	$> 1.2$ ps	1821.8 2	100 4	M1+E2	-1.3 +3-5
3078.53 13	(2, 3) +	$> 1.2$ ps	557.8 3	12.0 8		
3133.42 11	5-	$> 1.0$ ps	779.3 2	16.3 12	E2	0.0
3133.42 11	5-	$> 1.0$ ps	886.0 1	100.0 12	E1	6.0
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]	6.0
3248.69 10	2+	$> 1.1$ ps	1992.25 12	22.9 13	M1+E2	6.0
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]	1.0
3338.3 3	2+	$> 0.3$ ps	2081.6 3	100	M1+E2	6.0
3353.1 4	2+	$> 1.4$ ps	2096.4 4	9 3	M1+E2	6.0
3353.1 4	2+	$> 1.4$ ps	3353.0 5	100 3	E2	1.0

## Levels Results

3417.41 11	4+	> 0.4 ps	2160.7 1	100	E2	6.5
3456.31 20	2+, 3+	> 0.7 ps	700.3 6	22 5		
3456.31 20	2+, 3+	> 0.7 ps	2199.6 2	100 6	M1+E2	2.8 10
3471.7 3	4+	> 0.23 ps	951.0 3	100	[M1]	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
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
3557.29 12		> 0.3 ps	1203.1 1	100.0 23		
3557.29 12		> 0.3 ps	1036.1 4	16.3 23		
77.389 19	7/2+	21.4 m 4	77.38 2	100	M3+E4	0.13 2
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		
498.07 5	3/2+	> 0.35 ps	497.96 9	100 5	M1+E2	0.12 6
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	627.54 2	100 3	E1	
2815.146 22	5-	> 1.4 ps	540.15 13	10.5 3	E2	
2815.146 22	5-	> 1.4 ps	200.84 12	1.3 3		
3244.39 7	6-	> 1.4 ps	429.19 8	100.0 7	M1+E2	+0.161 +4-3
3244.39 7	6-	> 1.4 ps	157.1 1	5.09 15		
2592.35 19	(15/2-)	> 2.4 ps	1878.9 2	100		
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		
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		
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		
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		
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	
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)	
314.58 4	11/2-	14.00 d 5	156.02 3	100	M4	46.9
314.58 4	11/2-	14.00 d 5	314.3 3	0.020 5	[E5]	1.1
2328.02 3	2+	> 0.2 ps	1098.2 5	100 19	E2 (+M1)	
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	
2488.871 19	4+	> 0.55 ps	445.99 1	100 3	E2	0.0
2488.871 19	4+	> 0.55 ps	208.52 2	52 7	M1+E2	-0.17 4
2488.871 19	4+	> 0.55 ps	1259.19 2	67 3	E2	
2677.35 3	2+	> 0.28 ps	1447.66 3	86 4	M1+E2	+2.46 +17-13
2677.35 3	2+	> 0.28 ps	2677.35 4	100 4	E2	
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		
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		
2643.353 20	4+	> 1.0 ps	546.13 2	37.5 13	E2	
6.31 6	11/2-	43.9 y 5	6.29 8	100	[M4]	8.1
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	
2688.50 5	0+	> 0.28 ps	1556.77 5	100.0 13		

## Levels Results

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	1704.87	11	27.8	10	(M1+E2)	+1.5	3
2836.58	4	3+	> 0.28 ps	614.76	6	34.5	18	(M1+E2)		0.0
2836.58	4	3+	> 0.28 ps	735.34	18	18.6	17	(M1+E2)	-0.94	10
2836.58	4	3+	> 0.28 ps	706.98	4	100.0	17	M1+E2	+2.1	3
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
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)		
2988.03	3	3-	> 0.55 ps	1856.33	3	100	8	E1(+M2)	-0.02	2
2988.03	3	3-	> 0.55 ps	234.95	7	16.5	11	(M1+E2)	-0.07	11
2988.03	3	3-	> 0.55 ps	385.38	5	53	4	M1+E2	+1.7	3
2988.03	3	3-	> 0.55 ps	373.75	13	10.5	10	(M1+E2)		0.0
3267.13	9	1,2,3	> 0.14 ps	2135.37	8	100		D,D+Q		
2091.50	11	(7-)	6.5 s	91.15	10	100		E3		26.0
2638.42	9	15/2-	> 2.1 ps	322.34	14	23.7	20	M1+E2	-0.14	9
2638.42	9	15/2-	> 2.1 ps	1338.24	9	100	5	E2		
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	1009.2	6	100	3	M1+E2	-0.4	3
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		
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	589.6	2	100	5	E1		
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	
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	683.21	10	100	23	[E1]		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				
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]		0.0
1487.61	6	(3/2+)	> 215 fs	843.57	8	100	14			
1487.61	6	(3/2+)	> 215 fs	1487.36	20		0.29			
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+	> $0.3 \times 10^{-3}$ ps	1035.40	10		0.72	30		
1035.429	14	9/2+	> $0.3 \times 10^{-3}$ ps	998.291	11	100	2	M1+E2		0.0
163.5591	17	(8)-	4.191 m	3	26.0867	24	100		(E3)	3.0
10.8627	8	5+	93 s	5	10.8630	11	100		[M2]	2.1
36.8440	14	(8)-	20.2 m	2	25.981	3	100		E3	2.9
17.7	3	(5+)	19.15 m	9	17.7	3	100		(E3)	3.2
40.4	3	(3-)	≈ 11 s	22.70	7	100		(M2)		718
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)	0.0
293.974	22	11/2-	164.2 d	8	81.788	18	100		M4	
1357.401	24	0+	> 1.39 ps	1357.4	1			E0		

## Levels Results

1357.401	24	0+	> 1.39 ps	793.27	2	100	2		
1747.04	3	0+	> 1.32 ps	490.24	5	41	1		
1747.04	3	0+	> 1.32 ps	1182.88	3	100	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	-1.0 +3-4
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	
2538.84	5		> 0.76 ps	1357.70	8	35.8	9		
247.45	4	11/2-	119.2 d 3	247.5	2	0.37	4	[E5]	7.8
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]	259
144.775	8	11/2-	57.40 d 15	109.276	15	100	1	M4	356
2218.085	19	5-	> 1.4 ps	856.80	2	100	3	E1+M2	+0.029 6
2218.085	19	5-	> 1.4 ps	204.71	7	1.88	13	E1	0.0
3096.79	20		> 0.52 ps	1676.69	6	1.0E2	4		
3096.79	20		> 0.52 ps	2430.24	8	59	22		
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	429
182.258	18	11/2-	33.25 h 25	182.25	2	100		(M4)	25.2
334.26	4	(11/2-)	55.4 m 4	334.27	4	100		M4	1.4
265.9		(7)	6.2 s 5	134.47	16	100		M3	17.8
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	4.9
120	20	(8-)	1.387 h 15	98.0	10	100		E3	21.6
1634.148	10	(19/2-)	9 s 2	74.05	1	100		(M2)	23.6
316.49	22	(8)-	3.52 m 4	272.1	1	100		E3	0.2
316.49	22	(8)-	3.52 m 4	316.3	10	<0.6		[M4]	1.9
252.61	14	9/2(-)	57 s 1	140.5	2	100		E3	4.1
297.10	8	9/2-	69.2 s 9	172.4	1	100		E3	1.6
236.14	3	11/2-	8.88 d 2	196.56	3	100		M4	20.1
163.930	8	11/2-	11.84 d 4	163.930	8	100		M4	50.2
233.221	15	11/2-	2.198 d 13	233.221	15	100		M4+E5	0.10 8
526.551	13	11/2-	15.29 m 5	526.561	17	100		M4	0.2
68.5	3	9/2(+)	122 s 3	68.5	3	100		M3	433
45.87	12	(3)+	> 1 μs	45.85	15	100		E2	33.8
156.27	5	11/2(-)	1.7 s 2	61.70	5			E3	289
462.63	14	(7)+	6.3 s 2	64.90	5	100	20	M2	46.9
462.63	14	(7)+	6.3 s 2	161.0		≈33		(E3)	2.1
272.44	25	(4)-	≥ 1 μs	55					
272.44	25	(4)-	≥ 1 μs	31.0					
163.25	11	5-	3.46 m 6	31.5	3	0.54	6	[E3]	1.5
163.25	11	5-	3.46 m 6	14.9	3	0.00038	6	[M3]	2.2
163.25	11	5-	3.46 m 6	82.9	1	100	6	E3	59.4
138.7441	26	8-	2.912 h 2	138.733	11	0.031	4	M4	131.8
138.7441	26	8-	2.912 h 2	127.5021	28	100	10	E3	6.8
1632.9		19/2-	53 m 2	846.1		100		M4	0.0
517.9	1	8-	17.5 s 2	517.9	1	100		E3	
517.9	1	8-	17.5 s 2	413.1	3	0.072		M4	
79.9	3	6-	2.91 m 10	79.9	3	100		M3	213
80.32	11	7/2-	1.93 s 7	24.2	1	100	20	M2	995
80.32	11	7/2-	1.93 s 7	80.2	2	58	7	E3	74.8
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

## Levels Results

268.218	20	11/2-	28.7 h 2	268.218	20	100	M4	5..
1578.969	22	0+	> 735 fs	1579.819			E0	
1578.969	22	0+	> 735 fs	760.45	2	100	E2	0..
2315.26	7	0+	> 0.85 ps	1496.73	7	100	E2	8..
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..
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	1605.4	2	54 5		
3504.28	10	2-	≥ 0.2 ps	3504.91	18	100 8	Q	
3504.28	10	2-	≥ 0.2 ps	2068.15	15	<52		
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..
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..
1451.8	4	(19/2-)	> 2.8 ps	641.9	4		(E2)	
1451.8	4	(19/2-)	> 2.8 ps	156.0				
445.81	21	(11/2-)	20 s 1	149.7	2	100	E3	3..
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..
5876.9	9	17+	> 0.69 ps	572	1			
5876.9	9	17+	> 0.69 ps	234.4	5		M1	0..
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..
754.24	8	11/2-	57.58 s 32	754.24	8	100	M4	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..
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..
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..
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..
1652.91	4	3-	> 1.8 ps	433.2	1	14.94	E1	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..
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..
2598.27	10	2+	> 1.66 ps	1062.0	1	100.0	M1+E2	-0.26 +11-7
2734.77	9	(3,2) +	> 0.37 ps	1081.9	1	35.90	(M1+E2)	-0.09 +12-20
2734.77	9	(3,2) +	> 0.37 ps	2093.3	2	61.54	M1+E2	5.2 +5-22
2734.77	9	(3,2) +	> 0.37 ps	622.7	1	61.54	(M1+E2)	0.19 25

## Levels Results

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			
152.4 3	(11/2-)	5.73 s 20	64.8 3	100	E3		
192.12 14	(11/2-)	1.1 s 2	130.4 2	100	E3		7.6
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	358.17 23	16.6 8			
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
1767.36 13	13/2+	> 0.37 ps	273.38 21	23.1 9	M1+E2	+0.08 6	0.0
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
1986.08 16	(13/2+)	> 0.42 ps	868.4 3	100.0 13	(E1)		1.1
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
2108.20 23	15/2(+)	> 28 fs	340.9 5	42.9 20	(E2+M1)		0.0
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			
2126.10 15	(11/2+)	> 114 fs	1008.8 3	100 6	(E1)		8.1
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)		8.1
2126.10 15	(11/2+)	> 114 fs	631.8 3	43 4	(E2+M1)		0.0
2190.36 20	(1/2-)	> 215 fs	2044.7 7	7 3	(E3)		1.1
2190.36 20	(1/2-)	> 215 fs	897.6 2				
2190.36 20	(1/2-)	> 215 fs	2190.8 5	100 3	(M2)		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)		8.1
2267.20 18	(1/2+)	> 184 fs	975.0 3				
2336.54 21	(15/2-)	> 28 fs	816.03 25	80 11	(E3)		0.0
2336.54 21	(15/2-)	> 28 fs	1218.3 3	100 11	(E2)		1.1
2454.20 22	(15/2+)	> 94 fs	687.32 23	100 5	(E2+M1)	-0.26 +14-15	0.0

## Levels Results

2454.20	22	(15/2+)	> 94 fs	449.91	22	64 5	(E2)	0.0
2473.2	3	(1/2-, 9/2-)	> 14 fs	368.16	21	100	(E2)	0.0
2580.71	16	(11/2+)	> 13 fs	2435.30	25	100 19	(E2)	8.8
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
2659.6	8	(11/2+)	> 156 fs	2514.1	8	100	(E2)	8.9
2718.5	4	(9/2, 11/2)	> 159 fs	1601.1	5	47 4		
2718.5	4	(9/2, 11/2)	> 159 fs	1197.5	4	100 5		
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)	1.1
2810.70	22	(1/2+)	> 76 fs	2810.95	23	100 13	(E2)	9.7
2810.70	22	(1/2+)	> 76 fs	1201.1	5	85 13	(E2+M1)	0.0
2847.5	3	(9/2+)	> 97 fs	1389.9	6	42 8	(E2+M1)	0.0
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
2881.6	4	(7/2+)	> 55 fs	1428.5	6	81 19	(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		
2887.47	25	(7/2+, 9/2, 11/2+)	> 24 fs	1075.2	5	86 21		
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		
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
35.10	10	(7/2+)	> 10 $\mu$ s	35.1	1	100	[M2]	264
127.97	12	(1/2+)	$\approx$ 70 s	127.9	6	100	M3	38.4
519.43	20	11/2-	1.60 s 15	233.5	2	100	E3	0.5
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	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
2295.41	3	4+	> 0.27 ps	784.55	3	15.8 3	E1	0.0
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	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	
2692.97	4	2+	> 0.12 ps	1182.06	7	23 6	E1	0.0
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	1323.94	11	64 6	(E1+M2)	0.0

Levels Results						
2834.58 4	(4+)	> 0.7 ps	724.63 5	36 4	(M1+E2)	0.0
2834.58 4	(4+)	> 0.7 ps	539.20 3	100 10	(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	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		
2901.34 3	2+	> 0.06 ps	722.70 9	27 3	M1+E2	+1.3 +13-10
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
2950.98 6	3(+)	> 58 fs	2254.71 10	85.4 21	(M1+E2)	-2.1 +12-9
1349	(5-)	> 1 μs	1113	≈14		
1349	(5-)	> 1 μs	870	100		
129.7 7	(11/2-)	< 8.8 s	45.2 7	100	[E3]	
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
150.3 1	1(+)	< 5 s	150.3 1	100	M3	20.5
121+X		> 16 μs	121			
457.38 23	11/2-	10.7 s 6	190.1 2	100	E3	1.5
5934.6 15	(39/2)	> 0.7 ps	1005.0	100 30		
5934.6 15	(39/2)	> 0.7 ps	491.3	44 12		
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	380.66 7	100.0 13	E1	0.0
2190.891 25	4+	> 0.14 ps	530.76 5	58.7 7	E2	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	777.59 2	22.6 5		
2587.78 3	4+	> 0.12 ps	396.91 7	100.0 9		
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	791.67 7	100 5		
1754.98 4	0+	> 277 fs	462.16 6			
1754.98 4	0+	> 277 fs	944.8 10	6.3 20		
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	
1177.812 21	2+	> 2.4 ps	1177.79 4	65.8 14	E2	
75.89 5	2+	> 2 ns	75.88 5	100	E2	6.5
96.45 7	11/2-	2.7 s 3	96.4 1	100	E3	46.1
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
377.76 9	11/2-	24.5 s 5	119.6 1	100	E3	15.9
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

## Levels Results

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		
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
1057.426 19	3+	> 1525 fs	808.94 3	20.6 2	M1+E2	-11.7 +16-23
1376.73 3	2-	> 381 fs	1301.46 3	100 1	E1 (+M2)	-0.08 +5-4
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	1.1
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
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	1.1
1561.45 5	4+	> 222 fs	1312.99 7	74.8 3	M1+E2	+0.28 +34-12
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
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
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
396.9 5	(6-)	4.25 s 15	113.0 3	100	E3	22.1
99.53 5	(11/2-)	25 s 3	27.1 1		E3	8.1
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	86.1
110.3 12	0-	10.70 s 17	110.3 12	100	M3	108.1
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
52.37	1-	9.5 s 15	52.37	100	M3	4.1
67.20 1	2-	28 m 2	67.200 10	100	E3	477
205.91 5	1/2+	8.30 s 8	205.92 5	100 10	E3	1.1
205.91 5	1/2+	8.30 s 8	40.0 1	6.8E-4 8	[M3]	2.1
59.98 3	2-	5.02 h 5	59.98 3	100	E3 (+M4)	<0.017
169.56+x	(9+)	3.2 s 2	X			930 1
211.15 3	1/2+	6.76 s 7	211.15 3	100	E3	1.2
105.87 6	6-	67.0 m 7	9.80 5	100	E3	
297.88 7	1/2+	1.09 s 3	297.88 10	100	E3	0.2
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
741.69 23	(11/2-)	9.6 s 6	630.5 2	100	M4	0.1
1623.24 10	3-	> 0.31 ns	1293.42 15	80 9	[E1]	
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]	
3263.09 18	16+	> 0.30 ps	560.50 11	100 10	E2	0.0

## Levels Results

3263.09 18	16+	> 0.30 ps	388.4 3	22 7	(E2)	
1713.4 7	0+	> 0.97 ps	927.4	12.4 6		
1713.4 7	0+	> 0.97 ps	1632.9	100.0 6	[E2]	
207.801 5	1/2-	2.269 s 6	207.801 5	100	E3	1.1
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
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
1411.0959 18	4+	> 0.83 ps	1146.998 9	67 4	M1	0.0
1411.0959 18	4+	> 0.83 ps	515.303 2	19.7 23	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
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
1616.8060 19	6+	> 1.7 ps	622.059 5	7.0 9	E2	0.0
70 20	5	74.5 s 15	28.85	100		
X	5+	24.3 s 17	<125	100	[E3]	
58.1	(3/2-,5/2,7/2-)	> 10 ns	58			
58.1	(3/2-,5/2,7/2-)	> 10 ns	4.2			
24.1999 16	1/2-	46 s 2	24.20 2	100	E3	2.5
1049.8 6	8-	11.4 s 3	95.92 9	100	E1	0.1
331.5 3	1/2-	6.41 s 2	227.0 2	100	M3	6.1
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
2502.5 4	(23/2-)	> 0.1 μs	21			
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	743.9 3	100 15	Q	
5740.6+X 4	(51/2-)	> 0.13 ps	377.0 5	51 13	D	
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	59.08 2	100 4	M3	
170.83 5	(6)-	142 d 2	126.2	53 38	[E4]	266
970.1757 24	23/2-	160.4 d 3	125.3 2	0.032 8	[M3]	94.1
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	30.1
970.1757 24	23/2-	160.4 d 3	333.1 2	0.26 6	[E4]	1.0
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	661			
7455.2 17	(57/2-)	> 7 ns	945			
1315.4502 8	23/2+	1.09 s 5	55.15 2	5.45 6	[E1]	0.1
1315.4502 8	23/2+	1.09 s 5	14.050 10	0.41 1	[M1+E2]	217
1315.4502 8	23/2+	1.09 s 5	228.4838 6	100.0 21	E2	0.1
2740.02 15	37/2-	51.4 m 5	214.0 1	100	E3	1.5
1147.416 6	8-	4.0 s 2	88.8667 10	100	E1	0.4
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
375.0352 25	1/2-	18.67 s 4	≈375	≈0.2	[M4]	3.5
375.0352 25	1/2-	18.67 s 4	160.696 2	100	M3	34.1
1105.74 16	25/2-	25.05 d 25	257.37 15	100 17	E3	0.6
1105.74 16	25/2-	25.05 d 25	21.01 12	0.254 13	M2	1.1

## Levels Results

1141.552 15	8-	5.53 h 2	57.538 17	100.0 20	E1	0.1
1141.552 15	8-	5.53 h 2	500.697 15	29.6 8	M2+E3	-5.3 2
2537.4 10	(14+)	> 10 $\mu$ s	52	100	[E2]	58.1
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	72.7 2	78 17	[E1]	0.8
1272.2 4	(8-)	48 s 10	555.0 2	100 25	[M2]	0.1
2571.0 3	(33/2-)	> 0.69 ps	570.1 2	100	(E2)	0.0
519.577 16	10-	15.84 m 10	184.951 15	100 6	E3	3.2
519.577 16	10-	15.84 m 10	356.47 10	1.19 13	M4	4.1
347.9 3	(7+)	17 s 2	161.1 2		(E3)	
1778.1 10	(25/2-)	7.3 s 9	191.7 5		(E2)	
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	
1834.2 4	7(-)	> 3.1 ps	792.2 2	100 5	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		$\geq$ 187 ns	965.3 7	$\approx$ 100		
221.91 3	1/2-	6.40 m 7	101.6 5	0.0088 8	[E4]	1.1
221.91 3	1/2-	6.40 m 7	221.93 5	100 8	M3	10.1
309.492 4	11/2+	5.30 s 8	102.481 3	100	M2	39.2
1431.02 5	2+	> 5 ps	424.36 15	8.3 19		
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	
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
197.383 23	11/2+	1.67 m 3	23.54 5	0.018 6	[M2]	8.1
3542.8 21	(16+)	7.5 s +48-35	399			
3542.8 21	(16+)	7.5 s +48-35	180			
188.0463 17	8(+)	169 d 8	83.3067 8	100 4	M4	1.1
188.0463 17	8(+)	169 d 8	188.0462 17	3.6	(E5)	246
148.2 5	(8+)	$2.0 \times 10^{+5}$ y	48.84 50	100	(E5)	4.8
589.143 16	3/2+	> 1.4 ps	77.37 5	5.8 13	M1	10.1
589.143 16	3/2+	> 1.4 ps	589.06 5	100 1	M1 (+E2)	0.0
589.143 16	3/2+	> 1.4 ps	454.92 2	24.1 11	E2	0.0
172.0848 24	6-	18.59 m 4	15.93 10	100	M3	1.1
172.0848 24	6-	18.59 m 4	2.636 3	0.0019 7	(M3)	1.6
204 10	(6-)	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+)	$\geq$ 0.92 ps	148.5	0.83 3		
3440.4 6	(14+)	$\geq$ 0.92 ps	658.5 5	100 3	(E2)	0.0
3440.4 6	(14+)	$\geq$ 0.92 ps	401.1	3.1 2	(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	397.0 1	100 10		
427.93 4	5/2-,7/2-	> 4.4 ps	211.26 5	13 2	E2 (+M1)	>1
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		
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		
531.55 3	5/2-	> 0.26 ps	312.17 4	8 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		
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]	0.1
1705.7 1	10-	9.86 m 3	38.9 1	100	M2+E3	0.10 2

## Levels Results

74.382 3	3/2-	13.10 h 5	74.379 9	100	M3+E4	0.055 3	40
2015.40 11	(10-)	5.9 s 1	47.4 2	0.0031 6	[E3]		7.1
2015.40 11	(10-)	5.9 s 1	307.02 9	13.3 10	(M2)		0.1
2015.40 11	(10-)	5.9 s 1	302.48 6	100 6	(E3)		0.1
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	0.1
432.49 11	(2)+	> 10 ns	169.8 1	100 11	[E1]		0.1
432.49 11	(2)+	> 10 ns	139.1 1	97 9	M1(+E2)	<0.8	2.1
432.49 11	(2)+	> 10 ns	206.9 1	40 3	[M1,E2]		0.1
432.49 11	(2)+	> 10 ns	89.8 1	11 3	[M1+E2]		7.8
X+0.0	2-	1.90 h 5	≤1.5		[E3]		
26.1 1	(1)-	1.120 h 3	26.1 1	100	M3		9.1
36.154 25	4+	> 2 μs	36.175 17	100	E1		1.1
376.4 1	11-	3.087 h 12	148.7 1	100	M4		475
171.29 4	11/2-	4.899 s 23	41.89 4	100	E3		1.1
624.07 4	(1/2+)	> 5 ps	624.06 6	100 3	(M1+E2)	0.40 22	0.0
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]		9.1
624.07 4	(1/2+)	> 5 ps	494.69 7	4.11 22	(E2)		0.0
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		24.1
118.7824 18	3-	> 15 ns	118.7817 18	100 12	E1		0.1
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		1.1
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]		0.1
100.663 20	(9/2)-	> 1 μs	91.11 2	100	E2		7.1
149.78 4	13/2+	4.33 d 3	135.50 3	100	M4		872
259.077 23	13/2+	4.010 d 5	19.8	0.24 1	[M4]		6.1
259.077 23	13/2+	4.010 d 5	129.5 2	100 5	M4		19
455.272 7	5/2-	> 10.5 ps	243.855 14	42 3	M1		0.1
455.272 7	5/2-	> 10.5 ps	325.18 10	42 5			
455.272 7	5/2-	> 10.5 ps	216.012 9	47 5	M1(+E2)	<0.6	0.1
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		0.1
544.1 5	(5/2-)	> 2.8 ps	544.2	100			
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				
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		7.1
424 2	(13/2)+	13.6 s 4	391.93 14	100	E3		0.1
1367 3	(13/2+)	12 s 5	1000.0 29	100	[M4]		0.1
73.3 4	(1/2)+	> 1 μs	60.5 3	100	E1		0.1
68.46 4	2+	47.6 s 14	68.46 4	100	M3		3.1
120.33 14	9/2(-)	2.3 s 1	101.0 2	100	E3		120.1
266.2 7	(11/2-)	0.92 s 11	13.7 6	100	(E3)		1.1
290.20 4	11/2-	3.9 s 3	289.8	100	[M4]		18.1
290.20 4	11/2-	3.9 s 3	32.21 3	≈4.1	E3		9.1

## Levels Results

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
84.656 20	5+	8.1 s 2	84.66 2	100	E3	327
595.66 4	12-	9.6 h 1	174.91 2	100	M4	227
409.15 8	11/2-	7.73 s 6	409.1 1	3.4 11	M4	3.9
409.15 8	11/2-	7.73 s 6	130.2 1	100 4	E3	30.1
811.9 15	(12-)	2.272 d 16	115.2 15	100	(M4)	2.4
907 5	(11/2-)	6 s 2	907 5		(M4)	0.1
99.3 5	13/2+	21.6 s 15	65.3 5	100	E3	
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]	
454.8 15	(9/2-)	1.93 s 8	168.8		(E3)	8.9
414 39	(10-)	3.32 s 11	374.2 1	100	E3	0.2
334 4	(9/2-)	15.60 s 12	35 4		[E3]	6.5
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	297.6 5	52 29		
3687.1 6	(19-)	> 1.18 ps	170.0 5	100 19	(M1)	1.9
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
482.63 17	9/2-	3.6 s 4	98.97 12	100	E3	157.5
394.2 5	(7+)	1.41 h 2	120.1 3	100	M4	2.1
543.6 4	7+	1.87 h 3	260.9 3	100	M4	34.0
2643.10 18	(12-)	3.74 m 3	1021.5 2	100 9	[E5]	0.0
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
1348.18 16	11/2-	1.33 s 11	1348.1 3	3.85	[E5]	0.0
1348.18 16	11/2-	1.33 s 11	997.1 3	100	[M4]	0.1
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	0.0
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	0.0
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	786.99 6	100	E5	0.1
2169.85 8	9-	3.54 h 2	547.4 2	0.25 8	E5	0.1
2169.85 8	9-	3.54 h 2	129.1 2	0.08 3	E4	
825.11 10	13/2+	6.21 s 8	825.1 1	100 5	M4	0.2
825.11 10	13/2+	6.21 s 8	4.9 3	1.32E-9 14	[E3]	7.0
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
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

## Levels Results

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]	0.0
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]	4.0
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]	1.0
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]	1.0
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]	
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		

## Levels Results

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			
169 4	(7+)	0.6 s 5	11 4	100		
271 5	(10-)	240 s 3	102.0 20	100	(E3)	155
248.5+X 5	10-	7.7 s 5	248.5 5	100	E3	1.5
667 4	(1/2+)	24.70 m 15	667		[M4]	0.1
846.35 18	1/2+	58.5 m 11	846.3 3	100	M4	0.2
650.57 10	7+	> 1.0 ns	140.08 12	52 16	M1	4.0
650.57 10	7+	> 1.0 ns	650.60 16	100	E2	0.0
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	906.32 15	100.0 6		
1539.39 7	2+,3+	> 1.2 ps	470.06 15	3.0 2		
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		
1347.50+X	(25/2:29/2) (-)	36.9 s 6	X			
310 2	(13/2+)	4.17 m 5	238 1	100	M4	65.1
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		
1383.16 7	19/2-	2.79 s 8	268.08 6	100 9	E3	1.1
1383.16 7	19/2-	2.79 s 8	109.1	<0.7	M3	453
1462 5	(25/2+)	25.2 s 6	34 5	100	(E4)	6.5
2930 10	(18+)	45.1 s 6	45 10	100	[E4]	
343.8 29	(10-)	6.3 s 5	230.9 2	100	E3	2.4
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]	41.1
130.141 18	9/2+	> 0.3 ns	100.27 3	93 18	E2	9.6
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

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## Levels Results

1009.601 14	2+	$\geq 0.8$ ps	183.90 11	0.20 7	M1+E2		2.1
1009.601 14	2+	$\geq 0.8$ ps	956.38 2	100 8	M1+E2	6.1 4	0.0
1009.601 14	2+	$\geq 0.8$ ps	332.07 5	2.96 7	[E2]		0.1
1009.601 14	2+	$\geq 0.8$ ps	835.59 8	3.7 4	E2		0.0
1009.601 14	2+	$\geq 0.8$ ps	228.23 5	0.41 7	E0+E2+M1		1.1
73.92+X	(0-)	1.159 m 11	<10				
851.74 3	2+	$\geq 1.74$ ps	851.70 10	100 6	[E2]		0.0
851.74 3	2+	$\geq 1.74$ ps	41.82 11	0.24 12	[E2]		863 1
851.74 3	2+	$\geq 1.74$ ps	808.20 10	60 6	E0+E2	0.45 9	4.2
851.74 3	2+	$\geq 1.74$ ps	708.3 2	31 4	[E2]		0.0
0.0760 4	1/2+	$\approx 26$ m	0.0765 4	100	E3		>1E1
0.0+X	(5/2+)	> 0.25 $\mu$ s	1600.3				
0.0+X	(5/2+)	> 0.25 $\mu$ s	708.2				
1211.2 8	8-	1.75 s 12	681.0 1		[E1]		0.0
1211.2 8	8-	1.75 s 12	10 1				
48.603 9	5-	141 y 2	48.63 5	100	E4		7.0
878.8+Y 10	(19/2-)	$\geq 10$ ns	28	100	[E1]		2.6