

<i>Target isotope:</i> $^{130}_{56}\text{Ba}$		$I^\pi_\circ = 0^+$	<i>Abundance:</i> 0.106(1) %		$S_\text{p} = 3751(100)$ keV		$^{131}_{57}\text{La}(\text{p})$		
E_\circ	$2J^\pi$	Γ_p	Γ	E^*_{analog}	S_pp	S_dp	E_cm	E^*	Ref.
[keV]		[keV]	[keV]	[keV]			[keV]	[keV]	
7460(20)	1^+	14(3)	45	0.0	0.53	0.31	7403(20)	11150(100)	70Wi18
7584(20)	$\langle 3^+ \rangle$	3.9(8)	59	108	0.43	0.25	7526(20)	11280(100)	70Wi18
8532(20)	$\langle 3^- \rangle$	9.6(20)	61	1100	0.33	0.21	8467(20)	12220(100)	70Wi18
8602(20)	$\langle 7^- \rangle$	1.9(4)	67	1162	0.22	0.22	8536(20)	12290(100)	70Wi18
8742(20)	$\langle 1^- \rangle$	7.1(15)	62	1317	0.24	0.10	8675(20)	12430(100)	70Wi18

Additional data on this isotope can be found in [94Se10].

<i>Target isotope:</i> $^{132}_{56}\text{Ba}$		$I^\pi_\circ = 0^+$	<i>Abundance:</i> 0.101(1) %		$S_\text{p} = 4178(200)$ keV		$^{133}_{57}\text{La}(\text{p})$		
E_\circ	$2J^\pi$	Γ_p	Γ	E^*_{analog}	S_pp	S_dp	E_cm	E^*	Ref.
[keV]		[keV]	[keV]	[keV]			[keV]	[keV]	
7728(30)	1^+	9.5	46		0.32	0.23	7670(30)	11847(30)	70Wi18
7740(30)	3^+	4.7	45		0.49	0.31	7682(30)	11859(30)	70Wi18
8956(30)	7^-	3.2	50		0.30	0.36	8889(30)	13066(30)	70Wi18
8961(30)	3^-	9.6	48		0.28	0.22	8894(30)	13071(30)	70Wi18
9256(30)	1^-	4.7	35		0.13	0.14	9186(30)	13364(30)	70Wi18

<i>Target isotope:</i> $^{134}_{56}\text{Ba}$		$I^\pi_\circ = 0^+$	<i>Abundance:</i> 2.417(18) %		$S_\text{p} = 4990(10)$ keV		$^{135}_{57}\text{La}(\text{p})$		
E_\circ	$2J^\pi$	Γ_p	Γ	E^*_{analog}	S_pp	S_dp	E_cm	E^*	Ref.
[keV]		[keV]	[keV]	[keV]			[keV]	[keV]	
7884(20)	3^+	2.7	42	0.0	0.25	0.35	7825(20)	12805(20)	70Wi18 98Se07
8123(20)	1^+	9.0	53	221	0.27	0.21	8063(20)	13053(20)	70Wi18 98Se07
9301(20)	7^-	4.4	48	1446	0.33	0.45	9232(20)	14222(20)	70Wi18 98Se07
9440(20)	3^-	11.5	81	1584	0.29	0.28	9370(20)	14360(20)	70Wi18 98Se07
9850(20)	1^-	7.5	87	1997	0.18	0.14	9777(20)	14767(20)	70Wi18 98Se07
10020(20)				$\langle 2150 \rangle$			9946	14936(20)	98Se07
10603(20)	$\langle 1^-, 3^- \rangle$			2730			10524(20)	15514(20)	98Se07
10863(20)				$\langle 2949 \rangle$			10783	15773(20)	98Se07

Target isotope: $^{136}_{56}\text{Ba}$ $I^\pi_{\text{o}} = 0^+$ Abundance: 7.854(24) % $S_{\text{p}} = 5523(48)$ keV									$^{137}_{57}\text{La(p)}$
E_{o}	$2J^\pi$	Γ_{p}	Γ	E^*_{analog}	S_{pp}	S_{dp}	E_{cm}	E^*	Ref.
[keV]		[keV]	[keV]	[keV]			[keV]	[keV]	
7904(20)	3^+	1.4	31		0.13	0.19	7846(20)	13369(20)	70Wi18
8193(20)	1^+	5.2	45		0.14	0.13	8133(20)	13656(20)	70Wi18
9680(20)	7^-	8.8	63		0.52	0.50	9609(20)	15132(20)	70Wi18
10059(20)	3^-	14.2	88		0.29	0.27	9985(20)	15508(20)	70Wi18
10538(20)	1^-	14.6	94		0.29	0.18	10461(20)	15984(20)	70Wi18
10714(20)	$\langle 5^-, 7^- \rangle$						10636(20)	16159(20)	90Pe02
11212(20)	$\langle 5^-, 7^- \rangle$						11130(20)	16653(20)	90Pe02
11270(20)	$\langle 1^-, 3^- \rangle$						11188(20)	16711(20)	90Pe02

Additional data on this isotope can be found in [94Tu02, 90Pe02].

Target isotope: $^{138}_{56}\text{Ba}$ $I^\pi_{\text{o}} = 0^+$ Abundance: 71.698(42) % $S_{\text{p}} = 6257.9(26)$ keV									$^{139}_{57}\text{La(p)}$
E_{o}	$2J^\pi$	Γ_{p}	Γ	E^*_{analog}	S_{pp}	S_{dp}	E_{cm}	E^*	Ref.
[keV]		[keV]	[keV]	[keV]			[keV]	[keV]	
9999(10)	7^-	16.2	81	0.0	0.83	0.70	9927(10)	16185(10)	70Wi18 68Ha0A 76Da19 72Se07
10638(10)	3^-	29.0	112	632	0.48	0.32	10561(10)	16819(10)	70Wi18 68Ha0A 76Da19 72Se07
11087(10)	1^-	24.4	114	1083	0.41	0.27	11007(10)	17265(10)	70Wi18 68Ha0A 76Da19 72Se07
11320(20)	9^-	0.9	80	1284	0.35	0.57	11239(20)	17496(20)	77Cl02
11436(10)	5^-	6.2	70	1420	0.27	0.21	11354(10)	17612(10)	70Wi18 68Ha0A 76Da19 72Se07 77Cl02
11650(20)	9^-	1.2	130	1623	0.38	0.22	11566(20)	17824(20)	77Cl02
11696(20)	7^-	1.9	48	1682	0.04	0.10	11612(20)	17870(20)	70Wi18 77Cl02 76Da19
11730(20)	5^-	4.2	126	1701	0.12	0.19	11646(20)	17904(20)	68Ha0A 77Cl02 72Se07 76Da19
11750(20)	3^-	4.5	80	1750	0.08	0.05	11665(20)	17923(20)	77Cl02 76Da19
11850(20)	$\langle 9^- \rangle$	0.9	118	1897	0.24		11765(20)	18023(20)	77Cl02
11960(20)	3^-	2.8	116	1935	0.04		11874(20)	18132(20)	77Cl02 72Se07
12020(20)	5^-	1.1	113	1955	0.03	0.08	11934(20)	18191(20)	77Cl02
12150(20)	7^-	2.7	90	2112	0.05	0.07	12063(20)	18320(20)	77Cl02
12190(20)	3^-	7.2	98	2132	0.09	0.16	12102(20)	18360(20)	77Cl02
12200(20)	5^-	1.3	50	2161	0.03	0.09	12112(20)	18370(20)	77Cl02
12220(20)	1^-	6.0	95	2187	0.09	0.20	12132(20)	18390(20)	77Cl02

Additional data on this isotope can be found in [89Bu12, 89Ny02, 81Pe04, 76Da19, 73Bi0A, 71Da18, 70Se02, 68Ha02, 68Ve07, 67Mo15, 67Ve02, 65Vo03, 65Za03].

Calculated from E_{o} values E^* are about 60–80 keV lower than that given in [81Pe04].