^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao	NDS 133, 221 (2016)	1-Dec-2015

Others: 1975Mi05, 1978Li22, 1961Ha10, 1966Pe14, 1966Bo14, 1966Eg01, 1970Lo05, 1970Or05.
Target $J^\pi=3/2^+$.
New measurements were performed with bent-crystal spectrometers GAMS for (n,γ), and with conversion-electron spectrometer BILL for (n,e) reaction (1996Ma70,1996Ma75).
Polarized beam and target, $\gamma(\theta)$, circular polarization (CP)(γ) (1978Li22).
$\gamma\gamma$(t) measurements, see 1993Pe04.
$\gamma\gamma$-coin measurements, see 1995Bo41, 1995BoZY, 1978Li22, and 1975Mi05.

^{198}Au Levels

E(level)[†]	J$^\pi$[@]	T$_{1/2}$[‡]	Comments
0.0	2$^-$	2.6941[#] d *2*	
55.1812 *6*	1$^-$		T$_{1/2}$: 0.28 ns *14* (1968Na21) $\gamma\gamma$(t) scin; uncertain assignment.
91.0057 *8*	0$^-$		
192.9440 *6*	1$^-$	0.7 ns *2*	
214.9715 *9*	4$^-$	0.4 ns *2*	
236.0453 *8*	3$^-$	≤0.15 ns	
247.5731 *10*	1$^-$	0.4 ns *1*	
259.3404 *9*	1$^-$	≤0.2 ns	
261.4047 *7*	2$^-$	≤0.2 ns	
312.2227 *20*	5$^+$	124 ns *4*	T$_{1/2}$: From $\gamma\gamma$(t) (1975Mi05).
328.4833 *16*	3$^-$	≤0.15 ns	
339.2909 *16*	1$^-$	≤0.4 ns	
346.9062 *7*	2$^-$	≤0.15 ns	
362.8994 *10*	2$^-$	≤0.15 ns	
368.2549 *11*	1$^-$	≤0.15 ns	
381.2003 *10*	3$^+$	2.3 ns *2*	
406.0081 *8*	2$^-$		
449.5703 *13*	3$^-$		
453.8249 *9*	2$^-$		
482.3273 *21*	4$^+$		
495.5114 *14*	1$^-$		
511.5173 *18*	3$^-$		
516.3848 *22*	6$^+$		
529.1687 *12*	3$^-$		
530.4782 *10*	1$^-$		
544.0095 *21*	4$^-$		
548.9343 *13*	2$^-$		
571.2430 *10*	1$^-$		
625.4303 *14*	3$^-$		
632.4818 *13*	1$^-$,2$^-$		
637.125 *3*	4$^+$		
646.411 *5*	0$^+$		
672.6549 *10*	1$^-$,2$^-$		
696.702 *4*	8$^+$		
702.4811 *20*	2$^-$		
703.7299 *15*	1$^-$		
728.672 *5*	0$^-$		
745.2188 *21*	1$^-$,2$^-$		
758.398 *3*	4$^+$		
764.483 *3*	4$^-$		
786.5357 *12*	2$^-$		

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^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

^{198}Au Levels (continued)

E(level)†	Jπ@
789.2973 *16*	1^-
800.0391 *19*	2^-
801.7064 *12*	$1^-,2^-$
810.426 *3*	3^+
824.609 *4*	3^+
835.366 *3*	3^-
868.7736 *20*	3^-
891.616 *3*	$1^-,2^-$
894.2718 *25*	3^-
896.5723 *25*	$1^-,2^-$
916.4440 *25*	$1^-,2^-$
918.5890 *16*	$1^-,2^-$
931.948 *3*	3^-
951.443 *5*	3^+
956.9534 *20*	$1^-,2^-$
960.633 *3*	3^+
971.8210 *20*	3^-
983.0869 *25*	2^+
987.5746 *19*	3^-
999.213 *4*	$1^-,2^-$
1018.430 *3*	$1^-,2^-$
1032.254 *3*	3^-
1038.2745 *21*	3^-
1047.124 *3*	$1^-,2^-$
1056.719 *3*	2^-
1061.285 *3*	3^-
1075.560 *4*	$1^-,2^-,3^-$
1092.876 *5*	0^-
1095.499 *4*	3^+
1104.847 *4*	$0^-,1^-,2^-$
1108.873 *4*	$1^-,2^-$
1115.266 *3*	3^-
1124.883 *4*	2^-
1157.2384 *22*	3^-
1160.018 *4*	3^-
1191.566 *4*	$1^+,2^+,3^+$
1202.268 *3*	2^-
1209.370 *4*	3^-
1232.8022 *25*	3^-
1240.385 *4*	3^-
1256.018 *5*	$1^-,2^-$
1265.524 *6*	$1^-,2^-,3^-$
1272.1512 *25*	3^-
1286.747 *4*	2^-
1293.902 *6*	$1^-,2^-$
1297.133 *5*	$1^-,2^-,3^-$
1301.045 *5*	2^-
1304.8246 *23*	3^-
1306.859 *3*	2^-
1318.628 *8*	$1^-,2^-$
1325.834 *4*	2^-
1335.543 *4*	$1^-,2^-,3^-$
1338.171 *4*	3^-
1359.038 *4*	$1^-,2^-,3^-$
1363.350 *4*	$1^-,2^-,3^-$
1371.502 *3*	$1^-,2^-$

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^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

^{198}Au Levels (continued)

E(level)[†]	J$^\pi$[@]	Comments
1375.989 *4*	1^-,2^-	
1380.885 *4*	3^-	
1390.227 *4*	2^-	
1396.142 *6*	3^-	
1399.342 *5*	2^-,3^-	
1402.086 *5*	1^-,2^-	
1404.893 *8*	2^-,3^-	
1409.399 *4*	3^-	
1418.687 *4*	3^+,4^+	
1423.795 *5*	3^-	
1431.645 *3*	2^-,3^-	
1434.584 *5*	1^-,2^-	
1444.396 *22*	3^-	
1453.858 *3*	3^-	
1458.988 *4*	3^-	
1472.097 *4*	3^-	
1475.622 *4*	2^-	
1487.136 *4*	1^-,2^-	
1496.201 *5*	3^-	
1505.178 *4*	1^-,2^-	
1513.565 *4*	1^-,2^-	
1530.702 *5*	1^-,2^-	
1536.380 *3*	1^-,2^-,3^-	
1542.793 *5*	3^-	
1554.429 *4*	1^-,2^-	
1560.407 *6*	3^-	
(6512.34 *9*)	1^+	Observed de-excitation intensity is 17.74% of g.s. feeding. J$^\pi$: E1 γ to g.s.

[†] Below 1560.4 keV, energies are from a least-squares fit to γ-ray energies.

[‡] From $\gamma\gamma$(t) (1993Pe04), except as noted.

[#] From Adopted Levels.

[@] J^π are from circular polarization of primary γ-rays due to capture of polarized neutrons by unoriented ^{197}Au nuclei and $\gamma(\theta)$ of γ-rays observed after capture of polarized neutrons by polarized ^{197}Au nuclei in ^{197}Au(n,γ) E=thermal (1978Li22) and multipolarity from internal conversion electron measurements (1996Ma70,1996Ma75) and L-transfer in ^{197}Au(d,p), except as noted.

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$

Iγ normalization: From I(γ+ce)(to g.s.)=100. Uncertainty from 20% systematic error.
All data are from 1996Ma70 and 1996Ma75, except as noted.

E$_\gamma$	I$_\gamma$[#][@]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.[†]	δ[†]	α[&]	Comments
35.819 *3*	0.56 *2*	91.0057	0$^-$	55.1812	1$^-$	M1		26.3	α(L)=20.2 *3*; α(M)=4.70 *7*; α(N+..)=1.400 *20*
55.181 *1*	2.64 *13*	55.1812	1$^-$	0.0	2$^-$	M1+E2	0.23 *2*	10.9 *7*	α(L)=8.3 *5*; α(M)=2.01 *13*; α(N+..)=0.59 *4* L1:L2:L3=100 *15*:48 *7*:43 *6* (1966Eg01), 100:53:43 (1966Bo14).
66.391 *3*	0.57 *14*	259.3404	1$^-$	192.9440	1$^-$				
[x]75.208 *4*	0.12 *3*					M1		2.98	α(L)=2.29 *4*; α(M)=0.532 *8*; α(N+..)=0.1585 *23*
82.356 *1*	3.09 *34*	1453.858	3$^-$	1371.502	1$^-$,2$^-$	E2[‡]		11.94	α(K)=0.608 *9*; α(L)=8.49 *12*; α(M)=2.21 *3*; α(N+..)=0.630 *9* α(K)=0.544; α(L)=0.108; α(M)=0.0252; α(N+..)=0.00763 E1 (1996Ma70,1996Ma75).
82.524 *1*	1.92 *35*	1536.380	1$^-$,2$^-$,3$^-$	1453.858	3$^-$				
83.142 *8*	0.230 *92*	1240.385	3$^-$	1157.2384	3$^-$				
91.002 *2*	0.64 *13*	91.0057	0$^-$	0.0	2$^-$	E2		7.75	α(K)=0.686 *10*; α(L)=5.30 *8*; α(M)=1.378 *20*; α(N+..)=0.393 *6* α(K)=0.699; α(L)=5.36; α(M)=1.39; α(N+..)=0.434 Mult.: From L2:L3:M=2:2:1 (1966Bo14), α(L3)exp=2.0.
97.249 *2*	7.1 *12*	312.2227	5$^+$	214.9715	4$^-$	E1		0.445	α(K)=0.356 *5*; α(L)=0.0683 *10*; α(M)=0.01593 *23*; α(N+..)=0.00459 *7*
99.330 *5*	0.160 *48*	346.9062	2$^-$	247.5731	1$^-$	M1		7.40	α(K)=6.07 *9*; α(L)=1.022 *15*; α(M)=0.237 *4*; α(N+..)=0.0707 *10*
[x]101.495 *6*	0.16 *6*					M1		6.95	α(K)=5.70 *8*; α(L)=0.960 *14*; α(M)=0.223 *4*; α(N+..)=0.0664 *10*
101.936 *1*	5.09 *25*	192.9440	1$^-$	91.0057	0$^-$	M1		6.87	α(K)=5.63 *8*; α(L)=0.948 *14*; α(M)=0.220 *3*; α(N+..)=0.0656 *10*
103.560 *1*	1.54 *22*	362.8994	2$^-$	259.3404	1$^-$	M1		6.57	α(K)=5.39 *8*; α(L)=0.906 *13*; α(M)=0.210 *3*; α(N+..)=0.0627 *9*
106.909 *4*	0.220 *55*	453.8249	2$^-$	346.9062	2$^-$	M1		5.99	α(K)=4.92 *7*; α(L)=0.827 *12*; α(M)=0.192 *3*; α(N+..)=0.0572 *8*
[x]107.485 *1*	2.03 *18*								
108.911 *2*	1.28 *17*	368.2549	1$^-$	259.3404	1$^-$	M1		5.68	α(K)=4.66 *7*; α(L)=0.784 *11*; α(M)=0.182 *3*; α(N+..)=0.0542 *8*
113.511 *7*	0.12 *4*	328.4833	3$^-$	214.9715	4$^-$	M1+E2		4.1 *10*	α(K)=2.4 *18*; α(L)=1.3 *6*; α(M)=0.33 *17*; α(N+..)=0.09 *5*
[x]118.022 *2*	0.91 *12*								
121.084 *6*	0.150 *45*	449.5703	3$^-$	328.4833	3$^-$	M1		4.20	α(K)=3.45 *5*; α(L)=0.578 *8*; α(M)=0.1341 *19*; α(N+..)=0.0400 *6*
122.652 *1*	1.100 *99*	1409.399	3$^-$	1286.747	2$^-$				
[x]123.227 *1*	1.44 *10*								
123.786 *1*	1.12 *10*	1487.136	1$^-$,2$^-$	1363.350	1$^-$,2$^-$,3$^-$				
125.346 *9*	0.100 *40*	453.8249	2$^-$	328.4833	3$^-$	M1		3.80	α(K)=3.12 *5*; α(L)=0.523 *8*; α(M)=0.1214 *17*; α(N+..)=0.0362 *5*
[x]130.699 *1*	0.95 *8*								
131.952 *7*	0.230 *69*	346.9062	2$^-$	214.9715	4$^-$	E2		1.706	α(K)=0.439 *7*; α(L)=0.950 *14*; α(M)=0.246 *4*; α(N+..)=0.0705 *10*

$^{198}_{79}Au_{119}$-4

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
132.851 *4*	0.140 *27*	1496.201	3^-	1363.350	$1^-,2^-,3^-$			
135.615 *6*	0.130 *33*	1375.989	$1^-,2^-$	1240.385	3^-			
137.450[a] *6*	0.180[a] *56*	1434.584	$1^-,2^-$	1297.133	$1^-,2^-,3^-$			
137.450[a] *6*	0.180[a] *56*	1475.622	2^-	1338.171	3^-			
137.763 *1*	0.950 *38*	192.9440	1^-	55.1812	1^-	M1	2.91	α(K)=2.39 *4*; α(L)=0.399 *6*; α(M)=0.0926 *13*; α(N+..)=0.0276 *4*
138.014 *4*	0.230 *58*	544.0095	4^-	406.0081	2^-			
[x]142.242 *6*	0.07 *2*					M1	2.65	α(K)=2.18 *3*; α(L)=0.364 *6*; α(M)=0.0846 *12*; α(N+..)=0.0252 *4*
142.918 *3*	0.460 *51*	548.9343	2^-	406.0081	2^-	M1	2.62	α(K)=2.15 *3*; α(L)=0.360 *5*; α(M)=0.0834 *12*; α(N+..)=0.0249 *4*
144.605 *3*	0.250 *40*	406.0081	2^-	261.4047	2^-	M1	2.53	α(K)=2.08 *3*; α(L)=0.348 *5*; α(M)=0.0807 *12*; α(N+..)=0.0240 *4*
145.154 *1*	0.630 *44*	381.2003	3^+	236.0453	3^-	E1	0.1615	α(K)=0.1312 *19*; α(L)=0.0233 *4*; α(M)=0.00541 *8*; α(N+..)=0.001571 *22*
146.343 *2*	0.420 *38*	339.2909	1^-	192.9440	1^-	M1	2.45	α(K)=2.01 *3*; α(L)=0.336 *5*; α(M)=0.0780 *11*; α(N+..)=0.0232 *4*
146.670 *3*	0.380 *38*	406.0081	2^-	259.3404	1^-	M1	2.43	α(K)=2.00 *3*; α(L)=0.334 *5*; α(M)=0.0775 *11*; α(N+..)=0.0231 *4*
148.589[a] *14*	0.050[a] *25*	495.5114	1^-	346.9062	2^-	M1	2.34	α(K)=1.93 *3*; α(L)=0.322 *5*; α(M)=0.0747 *11*; α(N+..)=0.0223 *4*
148.589[a] *14*	0.050[a] *25*	511.5173	3^-	362.8994	2^-	M1	2.34	α(K)=1.93 *3*; α(L)=0.322 *5*; α(M)=0.0747 *11*; α(N+..)=0.0223 *4*
153.962 *8*	0.08 *2*	346.9062	2^-	192.9440	1^-	(M1)	2.12	α(K)=1.741 *25*; α(L)=0.291 *4*; α(M)=0.0675 *10*; α(N+..)=0.0201 *3*
154.057 *9*	0.060 *17*	786.5357	2^-	632.4818	$1^-,2^-$	(M1)	2.12	α(K)=1.738 *25*; α(L)=0.290 *4*; α(M)=0.0674 *10*; α(N+..)=0.0201 *3*
154.793[a] *2*	0.520[a] *36*	637.125	4^+	482.3273	4^+	M1	2.09	α(K)=1.715 *24*; α(L)=0.286 *4*; α(M)=0.0665 *10*; α(N+..)=0.0198 *3*
154.793[a] *2*	0.520[a] *36*	703.7299	1^-	548.9343	2^-	M1	2.09	α(K)=1.715 *24*; α(L)=0.286 *4*; α(M)=0.0665 *10*; α(N+..)=0.0198 *3*
156.561 *4*	0.120 *24*	247.5731	1^-	91.0057	0^-	M1	2.02	α(K)=1.661 *24*; α(L)=0.277 *4*; α(M)=0.0644 *9*; α(N+..)=0.0192 *3*
158.520 *24*	0.910 *36*	983.0869	2^+	824.609	3^+	M1	1.95	α(K)=1.604 *23*; α(L)=0.268 *4*; α(M)=0.0621 *9*; α(N+..)=0.0185 *3*
159.281 *6*	0.120 *24*	1191.566	$1^+,2^+,3^+$	1032.254	3^-			
164.713 *1*	0.280 *28*	1061.285	3^-	896.5723	$1^-,2^-$			
166.229 *2*	0.480 *29*	381.2003	3^+	214.9715	4^-	E1	0.1146	α(K)=0.0935 *13*; α(L)=0.01625 *23*; α(M)=0.00377 *6*; α(N+..)=0.001099 *16*
167.012[a] *15*	0.030[a] *6*	1061.285	3^-	894.2718	3^-	M1	1.685	α(K)=1.384 *20*; α(L)=0.231 *4*; α(M)=0.0536 *8*; α(N+..)=0.01597 *23*
167.012[a] *15*	0.030[a] *5*	1505.178	$1^-,2^-$	1338.171	3^-	M1	1.685	α(K)=1.384 *20*; α(L)=0.231 *4*; α(M)=0.0536 *8*; α(N+..)=0.01597 *23*
168.334 *1*	6.92 *7*	259.3404	1^-	91.0057	0^-	M1	1.648	α(K)=1.354 *19*; α(L)=0.226 *4*; α(M)=0.0524 *8*; α(N+..)=0.01562 *22*
169.225 *8*	0.100 *20*	801.7064	$1^-,2^-$	632.4818	$1^-,2^-$	M1	1.623	α(K)=1.334 *19*; α(L)=0.222 *4*; α(M)=0.0516 *8*; α(N+..)=0.01538 *22*
169.964[a] *8*	0.170[a] *26*	362.8994	2^-	192.9440	1^-			
169.964[a] *8*	0.170[a] *26*	406.0081	2^-	236.0453	3^-			
170.103 *1*	2.250 *45*	482.3273	4^+	312.2227	5^+	M1	1.600	α(K)=1.315 *19*; α(L)=0.219 *3*; α(M)=0.0509 *8*; α(N+..)=0.01516 *22*
170.395 *3*	0.510 *26*	261.4047	2^-	91.0057	0^-			
170.789 *13*	0.050 *22*	1475.622	2^-	1304.8246	3^-			
173.355 *10*	0.050 *15*	918.5890	$1^-,2^-$	745.2188	$1^-,2^-$			
175.309 *6*	0.140 *22*	368.2549	1^-	192.9440	1^-			
175.858 *15*	0.030 *13*	625.4303	3^-	449.5703	3^-			
180.317 *3*	0.050 *4*	696.702	8^+	516.3848	6^+	E2	0.537	α(K)=0.219 *3*; α(L)=0.239 *4*; α(M)=0.0616 *9*; α(N+..)=0.01766 *25*
180.863 *1*	0.850 *26*	236.0453	3^-	55.1812	1^-	E2	0.531	α(K)=0.217 *3*; α(L)=0.236 *4*; α(M)=0.0608 *9*; α(N+..)=0.01743 *25*
181.966 *9*	0.080 *21*	1306.859	2^-	1124.883	2^-	M1	1.324	α(K)=1.088 *16*; α(L)=0.181 *3*; α(M)=0.0420 *6*; α(N+..)=0.01253 *18*
182.283 *11*	0.070 *20*	529.1687	3^-	346.9062	2^-			
184.998 *14*	0.040 *13*	810.426	3^+	625.4303	3^-	E1	0.0876	α(K)=0.0716 *10*; α(L)=0.01228 *18*; α(M)=0.00285 *4*; α(N+..)=0.000831 *12*

$^{198}_{79}Au_{119}$-5

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
188.166 *2*	0.860 *26*	449.5703	3⁻	261.4047	2⁻	M1		1.205	α(K)=0.990 *14*; α(L)=0.1649 *23*; α(M)=0.0382 *6*; α(N+..)=0.01140 *16*
[x]189.148 *6*	0.030 *4*								
191.182 *4*	0.240 *22*	530.4782	1⁻	339.2909	1⁻	M1		1.153	α(K)=0.947 *14*; α(L)=0.1577 *22*; α(M)=0.0366 *6*; α(N+..)=0.01090 *16*
192.392 *1*	5.210 *52*	247.5731	1⁻	55.1812	1⁻	M1		1.132	α(K)=0.931 *13*; α(L)=0.1549 *22*; α(M)=0.0359 *5*; α(N+..)=0.01071 *15*
192.946 *1*	2.300 *23*	192.9440	1⁻	0.0	2⁻	E2		0.424	α(K)=0.185 *3*; α(L)=0.179 *3*; α(M)=0.0460 *7*; α(N+..)=0.01321 *19*
[x]194.341 *6*	0.040 *8*								
[x]197.171 *20*	0.010 *4*								
201.015 *12*	0.030 *9*	1293.902	1⁻,2⁻	1092.876	0⁻	M1		1.002	α(K)=0.824 *12*; α(L)=0.1370 *20*; α(M)=0.0318 *5*; α(N+..)=0.00947 *14*
202.006 *3*	0.120 *13*	1306.859	2⁻	1104.847	0⁻,1⁻,2⁻	M1		0.988	α(K)=0.812 *12*; α(L)=0.1351 *19*; α(M)=0.0313 *5*; α(N+..)=0.00934 *13*
202.866[a] *14*	0.040[a] *17*	835.366	3⁻	632.4818	1⁻,2⁻				
202.866[a] *14*	0.040[a] *17*	1038.2745	3⁻	835.366	3⁻				
202.987 *1*	0.350 *14*	571.2430	1⁻	368.2549	1⁻	M1		0.975	α(K)=0.801 *12*; α(L)=0.1333 *19*; α(M)=0.0309 *5*; α(N+..)=0.00921 *13*
204.162 *1*	0.800 *80*	516.3848	6⁺	312.2227	5⁺	M1		0.959	α(K)=0.789 *11*; α(L)=0.1311 *19*; α(M)=0.0304 *5*; α(N+..)=0.00906 *13*
206.227 *1*	0.300 *15*	261.4047	2⁻	55.1812	1⁻	M1		0.933	α(K)=0.767 *11*; α(L)=0.1275 *18*; α(M)=0.0296 *5*; α(N+..)=0.00881 *13*
206.741 *9*	0.020 *3*	1513.565	1⁻,2⁻	1306.859	2⁻				
208.33 *4*	0.00 *81*	571.2430	1⁻	362.8994	2⁻				
213.066 *3*	0.130 *12*	406.0081	2⁻	192.9440	1⁻	M1		0.852	α(K)=0.700 *10*; α(L)=0.1164 *17*; α(M)=0.0270 *4*; α(N+..)=0.00804 *12*
213.545 *9*	0.020 *4*	449.5703	3⁻	236.0453	3⁻	M1		0.846	α(K)=0.696 *10*; α(L)=0.1156 *17*; α(M)=0.0268 *4*; α(N+..)=0.00799 *12*
214.852 *4*	0.260 *52*	918.5890	1⁻,2⁻	703.7299	1⁻				
214.971 *1*	12.19 *39*	214.9715	4⁻	0.0	2⁻	E2		0.293	α(K)=0.1420 *20*; α(L)=0.1138 *16*; α(M)=0.0291 *4*; α(N+..)=0.00838 *12* α(K)=0.143; α(L)=0.115; α(M)=0.0294; α(N+..)=0.0092 Mult.: From K:L1:L2:L3:M=100 *5*:7 *3*:45 *4*:23 *5*:18 *3* (1966Eg01).
215.295 *2*	0.260 *18*	786.5357	2⁻	571.2430	1⁻	M1		0.827	α(K)=0.680 *10*; α(L)=0.1130 *16*; α(M)=0.0262 *4*; α(N+..)=0.00781 *11*
215.535 *5*	0.060 *11*	544.0095	4⁻	328.4833	3⁻				
218.045 *5*	0.080 *17*	789.2973	1⁻	571.2430	1⁻	M1		0.799	α(K)=0.657 *10*; α(L)=0.1091 *16*; α(M)=0.0253 *4*; α(N+..)=0.00754 *11*
218.830 *3*	0.190 *17*	672.6549	1⁻,2⁻	453.8249	2⁻	(M1)		0.791	α(K)=0.650 *10*; α(L)=0.1080 *16*; α(M)=0.0250 *4*; α(N+..)=0.00746 *11*
218.907 *8*	0.060 *12*	1554.429	1⁻,2⁻	1335.543	1⁻,2⁻,3⁻	(M1)		0.790	α(K)=0.650 *9*; α(L)=0.1079 *16*; α(M)=0.0250 *4*; α(N+..)=0.00746 *11*
[x]219.352 *1*	0.400 *16*								

$^{198}_{79}Au_{119}$-6

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	δ[†]	α[&]	Comments
223.078 *8*	0.040 *8*	672.6549	1^-,2^-	449.5703	3^-				
224.341 *4*	0.090 *15*	571.2430	1^-	346.9062	2^-				
226.471 *6*	0.060 *11*	632.4818	1^-,2^-	406.0081	2^-				
227.826 *15*	0.030 *10*	1038.2745	3^-	810.426	3^+				
[x]229.979 *6*	0.020 *3*								
230.212 *6*	0.020 *3*	1390.227	2^-	1160.018	3^-				
[x]232.899 *7*	0.020 *3*								
234.109 *3*	0.110 *10*	495.5114	1^-	261.4047	2^-	M1		0.656	α(K)=0.539 *8*; α(L)=0.0895 *13*; α(M)=0.0207 *3*; α(N+..)=0.00618 *9*
234.607[a] *7*	0.060[a] *13*	449.5703	3^-	214.9715	4^-				
234.607[a] *7*	0.060[a] *13*	1191.566	1^+,2^+,3^+	956.9534	1^-,2^-				
[x]234.763 *12*	0.020 *3*								
235.28[a] *3*	0.020[a] *10*	764.483	4^-	529.1687	3^-				
235.28[a] *3*	0.020[a] *10*	1475.622	2^-	1240.385	3^-				
235.28[a] *3*	0.020[a] *10*	1536.380	1^-,2^-,3^-	1301.045	2^-				
236.047 *2*	5.54 *6*	236.0453	3^-	0.0	2^-	M1+E2	1.0 *4*	0.43 *10*	α(K)=0.32 *10*; α(L)=0.083 *3*; α(M)=0.0200 *3*; α(N+..)=0.00587 *12*
236.160 *4*	0.350 *70*	495.5114	1^-	259.3404	1^-				
237.611 *12*	0.030 *7*	786.5357	2^-	548.9343	2^-				
238.477 *16*	0.060 *14*	1363.350	1^-,2^-,3^-	1124.883	2^-				
[x]239.077 *4*	0.09 *1*								
239.634[a] *15*	0.020[a] *7*	1286.747	2^-	1047.124	1^-,2^-				
239.634[a] *15*	0.020[a] *7*	1505.178	1^-,2^-	1265.524	1^-,2^-,3^-				
[x]240.945 *10*	0.020 *3*								
241.672 *17*	0.030 *10*	1202.268	2^-	960.633	3^+				
242.773[a] *11*	0.030[a] *7*	571.2430	1^-	328.4833	3^-				
242.773[a] *11*	0.030[a] *7*	1475.622	2^-	1232.8022	3^-				
243.343 *17*	0.030 *9*	868.7736	3^-	625.4303	3^-				
245.305 *3*	0.150 *15*	1202.268	2^-	956.9534	1^-,2^-				
245.977 *17*	0.0100 *23*	918.5890	1^-,2^-	672.6549	1^-,2^-				
247.570 *3*	7.51 *45*	247.5731	1^-	0.0	2^-	M1		0.562	α(K)=0.462 *7*; α(L)=0.0766 *11*; α(M)=0.01776 *25*; α(N+..)=0.00529 *8*
247.928 *5*	0.090 *10*	495.5114	1^-	247.5731	1^-				
248.740 *3*	0.150 *9*	1209.370	3^-	960.633	3^+				
249.239 *18*	0.010 *2*	1505.178	1^-,2^-	1256.018	1^-,2^-				
249.715[a] *14*	0.020[a] *6*	745.2188	1^-,2^-	495.5114	1^-				
249.715[a] *14*	0.020[a] *6*	1232.8022	3^-	983.0869	2^+				
249.715[a] *14*	0.020[a] *6*	1536.380	1^-,2^-,3^-	1286.747	2^-				
250.118 *7*	0.070 *9*	511.5173	3^-	261.4047	2^-				
252.828 *8*	0.050 *13*	1240.385	3^-	987.5746	3^-				
[x]252.941 *4*	0.10 *1*								
253.203 *9*	0.020 *3*	956.9534	1^-,2^-	703.7299	1^-				

$^{198}_{79}Au_{119}$-7

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
255.882 *10*	0.030 *6*	346.9062	2$^-$	91.0057	0$^-$			
[x]256.886 *4*	0.080 *9*							
[x]258.022 *10*	0.020 *2*							
[x]258.444 *8*	0.020 *2*							
259.348 *9*	0.030 *3*	259.3404	1$^-$	0.0	2$^-$	M1	0.495	α(K)=0.407 *6*; α(L)=0.0673 *10*; α(M)=0.01561 *22*; α(N+..)=0.00465 *7*
259.467 *9*	0.030 *3*	495.5114	1$^-$	236.0453	3$^-$			
260.882 *1*	1.12 *9*	453.8249	2$^-$	192.9440	1$^-$	M1	0.487	α(K)=0.400 *6*; α(L)=0.0663 *10*; α(M)=0.01536 *22*; α(N+..)=0.00458 *7*
261.402 *1*	6.76 *20*	261.4047	2$^-$	0.0	2$^-$	M1	0.484	α(K)=0.398 *6*; α(L)=0.0659 *10*; α(M)=0.01527 *22*; α(N+..)=0.00455 *7*
[x]262.059 *12*	0.010 *1*							
262.535 *6*	0.070 *12*	625.4303	3$^-$	362.8994	2$^-$			
262.712 *14*	0.020 *8*	1472.097	3$^-$	1209.370	3$^-$			
264.062 *9*	0.020 *2*	896.5723	1$^-$,2$^-$	632.4818	1$^-$,2$^-$			
264.210[a] *3*	0.080[a] *8*	632.4818	1$^-$,2$^-$	368.2549	1$^-$			
264.210[a] *3*	0.080[a] *8*	1536.380	1$^-$,2$^-$,3$^-$	1272.1512	3$^-$			
[x]264.981 *10*	0.020 *2*							
266.271 *8*	0.050 *11*	1475.622	2$^-$	1209.370	3$^-$			
266.647 *1*	0.320 *10*	672.6549	1$^-$,2$^-$	406.0081	2$^-$	M1	0.458	α(K)=0.377 *6*; α(L)=0.0624 *9*; α(M)=0.01445 *21*; α(N+..)=0.00431 *6*
267.774 *3*	0.100 *8*	529.1687	3$^-$	261.4047	2$^-$			
269.081 *2*	0.210 *17*	530.4782	1$^-$	261.4047	2$^-$	M1	0.447	α(K)=0.368 *6*; α(L)=0.0608 *9*; α(M)=0.01410 *20*; α(N+..)=0.00420 *6*
269.574 *7*	0.050 *11*	632.4818	1$^-$,2$^-$	362.8994	2$^-$			
270.160 *10*	0.020 *2*	1056.719	2$^-$	786.5357	2$^-$			
270.639 *5*	0.050 *17*	1542.793	3$^-$	1272.1512	3$^-$			
271.144[a] *4*	0.140[a] *11*	530.4782	1$^-$	259.3404	1$^-$	(M1)	0.438	α(K)=0.360 *5*; α(L)=0.0596 *9*; α(M)=0.01380 *20*; α(N+..)=0.00411 *6*
271.144[a] *4*	0.140[a] *11*	896.5723	1$^-$,2$^-$	625.4303	3$^-$	(M1)	0.438	α(K)=0.360 *5*; α(L)=0.0596 *9*; α(M)=0.01380 *20*; α(N+..)=0.00411 *6*
271.144[a] *4*	0.140[a] *11*	1375.989	1$^-$,2$^-$	1104.847	0$^-$,1$^-$,2$^-$	(M1)	0.438	α(K)=0.360 *5*; α(L)=0.0596 *9*; α(M)=0.01380 *20*; α(N+..)=0.00411 *6*
271.229 *3*	0.230 *12*	801.7064	1$^-$,2$^-$	530.4782	1$^-$	(M1)	0.437	α(K)=0.360 *5*; α(L)=0.0595 *9*; α(M)=0.01379 *20*; α(N+..)=0.00411 *6*
271.895 *2*	0.270 *11*	362.8994	2$^-$	91.0057	0$^-$			
272.564 *5*	0.090 *7*	1304.8246	3$^-$	1032.254	3$^-$			
273.286 *15*	0.050 *17*	328.4833	3$^-$	55.1812	1$^-$			
273.519 *10*	0.020 *2*	1108.873	1$^-$,2$^-$	835.366	3$^-$			
275.470[a] *7*	0.060[a] *11*	511.5173	3$^-$	236.0453	3$^-$			
275.470[a] *7*	0.060[a] *11*	1293.902	1$^-$,2$^-$	1018.430	1$^-$,2$^-$			
[x]275.656 *3*	0.090 *6*					M1	0.418	α(K)=0.344 *5*; α(L)=0.0569 *8*; α(M)=0.01319 *19*; α(N+..)=0.00393 *6*
276.071 *3*	0.300 *24*	758.398	4$^+$	482.3273	4$^+$	M1	0.417	α(K)=0.343 *5*; α(L)=0.0567 *8*; α(M)=0.01313 *19*; α(N+..)=0.00391 *6*
277.246 *2*	0.350 *56*	368.2549	1$^-$	91.0057	0$^-$	M1	0.412	α(K)=0.339 *5*; α(L)=0.0560 *8*; α(M)=0.01298 *19*; α(N+..)=0.00387 *6*
[x]279.500 *12*	0.010 *1*							
281.432 *7*	0.050 *14*	1338.171	3$^-$	1056.719	2$^-$			
282.893 *22*	0.020 *5*	530.4782	1$^-$	247.5731	1$^-$	M1	0.390	α(K)=0.321 *5*; α(L)=0.0530 *8*; α(M)=0.01228 *18*; α(N+..)=0.00366 *6*
283.076 *22*	0.020 *4*	1375.989	1$^-$,2$^-$	1092.876	0$^-$	M1	0.389	α(K)=0.320 *5*; α(L)=0.0529 *8*; α(M)=0.01226 *18*; α(N+..)=0.00365 *6*
[x]283.316 *11*	0.040 *11*							
283.944 *15*	0.090 *17*	916.4440	1$^-$,2$^-$	632.4818	1$^-$,2$^-$			
284.111 *3*	0.210 *29*	339.2909	1$^-$	55.1812	1$^-$	M1	0.385	α(K)=0.317 *5*; α(L)=0.0524 *8*; α(M)=0.01213 *17*; α(N+..)=0.00362 *5*
285.838 *9*	0.020 *2*	1202.268	2$^-$	916.4440	1$^-$,2$^-$			

$^{198}_{79}Au_{119}$-8

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]288.627 *8*	0.020 *2*							
290.183 *20*	0.020 *6*	801.7064	1⁻,2⁻	511.5173	3⁻			
291.025[a] *19*	0.020[a] *5*	786.5357	2⁻	495.5114	1⁻			
291.025[a] *19*	0.020[a] *5*	916.4440	1⁻,2⁻	625.4303	3⁻			
291.025[a] *19*	0.020[a] *5*	1338.171	3⁻	1047.124	1⁻,2⁻			
291.722 *1*	1.42 *14*	346.9062	2⁻	55.1812	1⁻	M1	0.358	α(K)=0.295 *5*; α(L)=0.0487 *7*; α(M)=0.01128 *16*; α(N+..)=0.00336 *5*
[x]292.173 *12*	0.030 *6*							
292.258 *10*	0.050 *6*	1056.719	2⁻	764.483	4⁻			
293.117 *4*	0.110 *26*	529.1687	3⁻	236.0453	3⁻	M1	0.354	α(K)=0.291 *4*; α(L)=0.0481 *7*; α(M)=0.01114 *16*; α(N+..)=0.00332 *5*
[x]293.476 *14*	0.030 *6*							
[x]294.313 *11*	0.030 *7*					M1	0.350	α(K)=0.288 *4*; α(L)=0.0475 *7*; α(M)=0.01101 *16*; α(N+..)=0.00328 *5*
[x]295.109 *13*	0.040 *6*							
296.025[a] *22*	0.010[a] *2*	1371.502	1⁻,2⁻	1075.560	1⁻,2⁻,3⁻			
296.025[a] *22*	0.010[a] *2*	1404.893	2⁻,3⁻	1108.873	1⁻,2⁻			
296.025[a] *22*	0.010[a] *2*	1536.380	1⁻,2⁻,3⁻	1240.385	3⁻			
296.528 *9*	0.030 *3*	511.5173	3⁻	214.9715	4⁻			
[x]297.134 *14*	0.020 *3*							
297.720 *5*	0.080 *4*	703.7299	1⁻	406.0081	2⁻	M1	0.339	α(K)=0.279 *4*; α(L)=0.0460 *7*; α(M)=0.01067 *15*; α(N+..)=0.00318 *5*
299.161[a] *12*	0.030[a] *4*	971.8210	3⁻	672.6549	1⁻,2⁻			
299.161[a] *12*	0.030[a] *4*	1286.747	2⁻	987.5746	3⁻			
300.646 *7*	0.040 *3*	1396.142	3⁻	1095.499	3⁺			
300.845 *12*	0.020 *2*	1232.8022	3⁻	931.948	3⁻			
[x]301.118 *9*	0.020 *2*							
301.365 *10*	0.020 *2*	548.9343	2⁻	247.5731	1⁻			
302.608 *9*	0.020 *2*	495.5114	1⁻	192.9440	1⁻			
304.419 *7*	0.030 *2*	1560.407	3⁻	1256.018	1⁻,2⁻			
306.199[a] *4*	0.070[a] *2*	801.7064	1⁻,2⁻	495.5114	1⁻	M1	0.314	α(K)=0.259 *4*; α(L)=0.0426 *6*; α(M)=0.00988 *14*; α(N+..)=0.00294 *5*
306.199[a] *4*	0.070[a] *2*	835.366	3⁻	529.1687	3⁻	M1	0.314	α(K)=0.259 *4*; α(L)=0.0426 *6*; α(M)=0.00988 *14*; α(N+..)=0.00294 *5*
307.723 *3*	0.590 *18*	362.8994	2⁻	55.1812	1⁻	M1+E2	0.20 *11*	α(K)=0.16 *10*; α(L)=0.035 *8*; α(M)=0.0083 *14*; α(N+..)=0.0025 *5*
311.905[a] *3*	0.640[a] *13*	571.2430	1⁻	259.3404	1⁻	M1	0.299	α(K)=0.246 *4*; α(L)=0.0405 *6*; α(M)=0.00939 *14*; α(N+..)=0.00280 *4*
311.905[a] *3*	0.640[a] *13*	1359.038	1⁻,2⁻,3⁻	1047.124	1⁻,2⁻	M1	0.299	α(K)=0.246 *4*; α(L)=0.0405 *6*; α(M)=0.00939 *14*; α(N+..)=0.00280 *4*
312.793 *14*	0.030 *4*	1209.370	3⁻	896.5723	1⁻,2⁻			
313.065 *4*	0.070 *4*	368.2549	1⁻	55.1812	1⁻			
313.20 *5*	0.020 *9*	824.609	3⁺	511.5173	3⁻			
313.82[a] *3*	0.010[a] *2*	1409.399	3⁻	1095.499	3⁺			
313.82[a] *3*	0.010[a] *2*	1418.687	3⁺,4⁺	1104.847	0⁻,1⁻,2⁻			
314.181 *9*	0.040 *4*	529.1687	3⁻	214.9715	4⁻			
314.916 *4*	0.360 *7*	764.483	4⁻	449.5703	3⁻	M1	0.291	α(K)=0.240 *4*; α(L)=0.0395 *6*; α(M)=0.00915 *13*; α(N+..)=0.00273 *4*
315.240[a] *17*	0.040[a] *10*	1115.266	3⁻	800.0391	2⁻			
315.240[a] *17*	0.040[a] *10*	1272.1512	3⁻	956.9534	1⁻,2⁻			
[x]316.158 *7*	0.010 *2*							
317.271 *10*	0.120 *24*	1304.8246	3⁻	987.5746	3⁻			

$^{198}_{79}Au_{119}$-9

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
319.597 *13*	0.020 *3*	1380.885	3^-	1061.285	3^-			
320.329 *17*	0.020 *3*	891.616	$1^-,2^-$	571.2430	1^-			
[x]321.079 *7*	0.060 *4*					M1	0.276	α(K)=0.227 *4*; α(L)=0.0374 *6*; α(M)=0.00867 *13*; α(N+..)=0.00259 *4*
322.77[a] *6*	0.020[a] *9*	728.672	0^-	406.0081	2^-			
322.77[a] *6*	0.020[a] *9*	1191.566	$1^+,2^+,3^+$	868.7736	3^-			
322.77[a] *6*	0.020[a] *9*	1431.645	$2^-,3^-$	1108.873	$1^-,2^-$			
324.916 *4*	0.140 *4*	637.125	4^+	312.2227	5^+			
325.319 *7*	0.010 *1*	896.5723	$1^-,2^-$	571.2430	1^-			
325.751 *3*	0.120 *3*	672.6549	$1^-,2^-$	346.9062	2^-	M1	0.265	α(K)=0.219 *3*; α(L)=0.0360 *5*; α(M)=0.00834 *12*; α(N+..)=0.00249 *4*
[x]326.162 *4*	0.020 *2*							
[x]327.215 *8*	0.010 *1*							
328.087 *8*	0.020 *2*	810.426	3^+	482.3273	4^+			
328.484 *3*	2.00 *2*	328.4833	3^-	0.0	2^-	M1	0.260	α(K)=0.214 *3*; α(L)=0.0352 *5*; α(M)=0.00815 *12*; α(N+..)=0.00243 *4*
328.706 *4*	0.150 *2*	1115.266	3^-	786.5357	2^-	M1	0.259	α(K)=0.213 *3*; α(L)=0.0351 *5*; α(M)=0.00814 *12*; α(N+..)=0.00242 *4*
329.021 *8*	0.020 *1*	544.0095	4^-	214.9715	4^-			
331.558 *12*	0.010 *2*	956.9534	$1^-,2^-$	625.4303	3^-			
[x]332.038 *15*	0.010 *2*							
[x]332.297 *6*	0.010 *1*							
[x]332.548 *10*	0.010 *2*							
332.713 *2*	0.040 *3*	786.5357	2^-	453.8249	2^-	M1	0.251	α(K)=0.206 *3*; α(L)=0.0340 *5*; α(M)=0.00787 *11*; α(N+..)=0.00235 *4*
333.839 *2*	0.150 *3*	1409.399	3^-	1075.560	$1^-,2^-,3^-$	M1	0.248	α(K)=0.205 *3*; α(L)=0.0337 *5*; α(M)=0.00780 *11*; α(N+..)=0.00232 *4*
333.970 *4*	0.040 *2*	548.9343	2^-	214.9715	4^-			
334.113[a] *11*	0.010[a] *1*	1458.988	3^-	1124.883	2^-			
334.113[a] *11*	0.010[a] *1*	1536.380	$1^-,2^-,3^-$	1202.268	2^-			
334.235 *14*	0.0100 *13*	702.4811	2^-	368.2549	1^-			
335.192 *8*	0.020 *10*	571.2430	1^-	236.0453	3^-			
335.297 *4*	0.040 *2*	1286.747	2^-	951.443	3^+	E1[‡]	0.0208	α(K)=0.01717 *24*; α(L)=0.00277 *4*; α(M)=0.000639 *9*; α(N+..)=0.000188 *3* α(K)=0.210; α(L)=0.0346; α(M)=0.00798; α(N+..)=0.00249 M1 (1996Ma70,1996Ma75).
[x]335.495 *2*	0.080 *2*					M1	0.245	α(K)=0.202 *3*; α(L)=0.0332 *5*; α(M)=0.00769 *11*; α(N+..)=0.00229 *4*
[x]335.936 *16*	0.010 *3*							
336.054 *18*	0.010 *2*	1431.645	$2^-,3^-$	1095.499	3^+			
336.320 *3*	0.040 *4*	1335.543	$1^-,2^-,3^-$	999.213	$1^-,2^-$			
337.533 *1*	0.240 *5*	530.4782	1^-	192.9440	1^-	M1	0.241	α(K)=0.199 *3*; α(L)=0.0327 *5*; α(M)=0.00757 *11*; α(N+..)=0.00226 *4*
338.055 *10*	0.010 *2*	1399.342	$2^-,3^-$	1061.285	3^-			
339.131 *8*	0.010 *1*	1530.702	$1^-,2^-$	1191.566	$1^+,2^+,3^+$			
339.328 *5*	0.060 *4*	971.8210	3^-	632.4818	$1^-,2^-$			
339.596[a] *3*	0.030[a] *2*	702.4811	2^-	362.8994	2^-			
339.596[a] *3*	0.030[a] *2*	868.7736	3^-	529.1687	3^-			
[x]339.921 *8*	0.010 *1*							
340.19 *5*	0.040 *12*	1297.133	$1^-,2^-,3^-$	956.9534	$1^-,2^-$			
[x]341.365 *3*	0.040 *2*							

$^{198}_{79}Au_{119}$-10

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
341.693 *8*	0.110 *19*	1434.584	$1^-,2^-$	1092.876	0^-			
342.217 *20*	0.020 *6*	824.609	3^+	482.3273	4^+			
342.81 *3*	0.020 *4*	1325.834	2^-	983.0869	2^+			
[x]343.629 *1*	1.04 *1*					E2	0.0690	α(K)=0.0447 *7*; α(L)=0.0184 *3*; α(M)=0.00461 *7*; α(N+..)=0.001337 *19*
344.172[a] *4*	0.030[a] *2*	672.6549	$1^-,2^-$	328.4833	3^-			
344.172[a] *4*	0.030[a] *2*	1304.8246	3^-	960.633	3^+			
[x]344.847 *5*	0.040 *3*							
345.21[a] *5*	0.020[a] *8*	894.2718	3^-	548.9343	2^-			
345.21[a] *5*	0.020[a] *8*	916.4440	$1^-,2^-$	571.2430	1^-			
345.21[a] *5*	0.020[a] *8*	1505.178	$1^-,2^-$	1160.018	3^-			
346.394 *3*	0.040 *2*	971.8210	3^-	625.4303	3^-	M1	0.225	α(K)=0.185 *3*; α(L)=0.0305 *5*; α(M)=0.00705 *10*; α(N+..)=0.00210 *3*
346.909 *1*	0.590 *6*	346.9062	2^-	0.0	2^-	M1	0.224	α(K)=0.184 *3*; α(L)=0.0303 *5*; α(M)=0.00702 *10*; α(N+..)=0.00209 *3*
347.877[a] *2*	0.150[a] *3*	801.7064	$1^-,2^-$	453.8249	2^-	M1	0.222	α(K)=0.183 *3*; α(L)=0.0301 *5*; α(M)=0.00697 *10*; α(N+..)=0.00208 *3*
347.877[a] *2*	0.150[a] *3*	1304.8246	3^-	956.9534	$1^-,2^-$	M1	0.222	α(K)=0.183 *3*; α(L)=0.0301 *5*; α(M)=0.00697 *10*; α(N+..)=0.00208 *3*
350.115 *2*	0.050 *4*	1458.988	3^-	1108.873	$1^-,2^-$			
350.494 *8*	0.010 *2*	800.0391	2^-	449.5703	3^-			
350.828 *1*	1.290 *13*	406.0081	2^-	55.1812	1^-	M1	0.217	α(K)=0.179 *3*; α(L)=0.0294 *5*; α(M)=0.00681 *10*; α(N+..)=0.00203 *3*
[x]351.843 *5*	0.020 *1*							
[x]354.553 *7*	0.010 *4*							
355.100[a] *5*	0.020[a] *3*	987.5746	3^-	632.4818	$1^-,2^-$			
355.100[a] *5*	0.020[a] *3*	1338.171	3^-	983.0869	2^+			
355.530 *2*	0.420 *9*	1157.2384	3^-	801.7064	$1^-,2^-$	M1	0.210	α(K)=0.1727 *25*; α(L)=0.0284 *4*; α(M)=0.00657 *10*; α(N+..)=0.00196 *3*
356.077 *7*	0.010 *1*	1431.645	$2^-,3^-$	1075.560	$1^-,2^-,3^-$			
357.91[a] *3*	0.020[a] *4*	1318.628	$1^-,2^-$	960.633	3^+			
357.91[a] *3*	0.020[a] *4*	1390.227	2^-	1032.254	3^-			
357.91[a] *3*	0.020[a] *4*	1396.142	3^-	1038.2745	3^-			
358.472 *7*	0.020 *2*	764.483	4^-	406.0081	2^-			
[x]359.688 *2*	0.090 *3*							
[x]360.208 *9*	0.010 *1*							
360.399 *3*	0.040 *2*	1124.883	2^-	764.483	4^-			
360.859 *4*	0.030 *2*	810.426	3^+	449.5703	3^-			
361.745 *6*	0.050 *7*	1256.018	$1^-,2^-$	894.2718	3^-			
[x]361.907 *12*	0.050 *14*							
362.141 *8*	0.070 *6*	987.5746	3^-	625.4303	3^-			
362.453[a] *5*	0.050[a] *6*	891.616	$1^-,2^-$	529.1687	3^-			
362.453[a] *5*	0.050[a] *6*	1380.885	3^-	1018.430	$1^-,2^-$			
362.857 *5*	0.040 *3*	1554.429	$1^-,2^-$	1191.566	$1^+,2^+,3^+$			
364.019[a] *3*	0.140[a] *4*	625.4303	3^-	261.4047	2^-	M1	0.197	α(K)=0.1621 *23*; α(L)=0.0266 *4*; α(M)=0.00616 *9*; α(N+..)=0.00184 *3*
364.019[a] *3*	0.140[a] *4*	1232.8022	3^-	868.7736	3^-	M1	0.197	α(K)=0.1621 *23*; α(L)=0.0266 *4*; α(M)=0.00616 *9*; α(N+..)=0.00184 *3*
364.421 *6*	0.020 *3*	703.7299	1^-	339.2909	1^-			
[x]364.933 *10*	0.020 *2*							
365.620 *2*	0.100 *3*	1038.2745	3^-	672.6549	$1^-,2^-$			

$^{198}_{79}Au_{119}$-11

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]365.970 *13*	0.010 *2*							
366.095 *3*	0.070 *5*	625.4303	3⁻	259.3404	1⁻			
366.332 *9*	0.010 *1*	1338.171	3⁻	971.8210	3⁻			
366.963[a] *11*	0.010[a] *1*	1191.566	1⁺,2⁺,3⁺	824.609	3⁺			
366.963[a] *11*	0.010[a] *2*	1202.268	2⁻	835.366	3⁻			
368.249 *7*	0.180 *2*	368.2549	1⁻	0.0	2⁻	M1	0.191	α(K)=0.1571 *22*; α(L)=0.0258 *4*; α(M)=0.00597 *9*; α(N+..)=0.001780 *25*
[x]369.280 *7*	0.010 *1*							
369.636 *5*	0.020 *2*	918.5890	1⁻,2⁻	548.9343	2⁻			
371.080 *2*	0.600 *6*	632.4818	1⁻,2⁻	261.4047	2⁻	M1	0.187	α(K)=0.1539 *22*; α(L)=0.0253 *4*; α(M)=0.00585 *9*; α(N+..)=0.001744 *25*
373.150 *11*	0.100 *15*	632.4818	1⁻,2⁻	259.3404	1⁻	M1	0.184	α(K)=0.1517 *22*; α(L)=0.0249 *4*; α(M)=0.00576 *8*; α(N+..)=0.001718 *24*
373.37 *3*	0.040 *12*	1434.584	1⁻,2⁻	1061.285	3⁻			
373.765 *5*	0.040 *2*	999.213	1⁻,2⁻	625.4303	3⁻			
[x]374.234 *16*	0.010 *1*							
374.922[a] *3*	0.070[a] *6*	1306.859	2⁻	931.948	3⁻			
374.922[a] *3*	0.070[a] *6*	1335.543	1⁻,2⁻,3⁻	960.633	3⁺			
374.922[a] *3*	0.070[a] *6*	1431.645	2⁻,3⁻	1056.719	2⁻			
[x]375.189 *9*	0.010 *1*							
[x]375.708 *17*	0.010 *2*							
376.154 *7*	0.020 *2*	1104.847	0⁻,1⁻,2⁻	728.672	0⁻			
376.795 *17*	0.040 *13*	1375.989	1⁻,2⁻	999.213	1⁻,2⁻			
[x]377.043 *2*	0.480 *11*							
377.874 *2*	0.080 *6*	1272.1512	3⁻	894.2718	3⁻			
378.302 *2*	0.240 *5*	571.2430	1⁻	192.9440	1⁻	M1	0.1774	α(K)=0.1462 *21*; α(L)=0.0240 *4*; α(M)=0.00555 *8*; α(N+..)=0.001655 *24*
[x]378.756 *8*	0.020 *1*							
381.205 *2*	4.02 *4*	381.2003	3⁺	0.0	2⁻	E1[‡]	0.01550	α(K)=0.01284 *18*; α(L)=0.00205 *3*; α(M)=0.000472 *7*; α(N+..)=0.0001390 *20* α(K)=0.0351; α(L)=0.0129; α(M)=0.00322; α(N+..)=0.00100 E2 (1996Ma70,1996Ma75).
381.565 *9*	0.110 *2*	835.366	3⁻	453.8249	2⁻	M1	0.1733	α(K)=0.1429 *20*; α(L)=0.0234 *4*; α(M)=0.00542 *8*; α(N+..)=0.001617 *23*
382.327 *3*	0.050 *2*	745.2188	1⁻,2⁻	362.8994	2⁻	M1	0.1724	α(K)=0.1421 *20*; α(L)=0.0233 *4*; α(M)=0.00540 *8*; α(N+..)=0.001608 *23*
382.992 *8*	0.020 *2*	931.948	3⁻	548.9343	2⁻			
383.295 *2*	0.320 *3*	789.2973	1⁻	406.0081	2⁻			
[x]383.488 *5*	0.030 *1*							
[x]383.699 *9*	0.010 *1*							
[x]384.856 *13*	0.010 *2*							
385.553[a] *15*	0.010[a] *2*	1423.795	3⁻	1038.2745	3⁻			
385.553[a] *15*	0.010[a] *2*	1542.793	3⁻	1157.2384	3⁻			
385.726 *8*	0.020 *5*	956.9534	1⁻,2⁻	571.2430	1⁻			
[x]385.991 *8*	0.010 *1*							
386.193 *13*	0.010 *2*	1304.8246	3⁻	918.5890	1⁻,2⁻			

$^{198}_{79}Au_{119}$-12

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
386.420[a] 2	10.00[a] 29	868.7736	3⁻	482.3273	4⁺			
386.420[a] 2	10.000[a] 29	1418.687	3⁺,4⁺	1032.254	3⁻			
387.284 3	0.060 6	916.4440	1⁻,2⁻	529.1687	3⁻	M1	0.1666	α(K)=0.1373 20; α(L)=0.0225 4; α(M)=0.00521 8; α(N+..)=0.001553 22
387.900 22	0.010 2	931.948	3⁻	544.0095	4⁻			
389.335 19	0.030 8	625.4303	3⁻	236.0453	3⁻			
389.421 4	0.040 2	918.5890	1⁻,2⁻	529.1687	3⁻			
[x]391.297 3	0.060 4							
[x]393.453 5	0.030 2							
393.881 2	0.300 6	1325.834	2⁻	931.948	3⁻	M1	0.1592	α(K)=0.1313 19; α(L)=0.0215 3; α(M)=0.00498 7; α(N+..)=0.001484 21
[x]394.120 6	0.020 1							
394.361 8	0.020 2	449.5703	3⁻	55.1812	1⁻			
395.703 3	0.090 6	801.7064	1⁻,2⁻	406.0081	2⁻	M1	0.1573	α(K)=0.1296 19; α(L)=0.0212 3; α(M)=0.00492 7; α(N+..)=0.001465 21
[x]396.139 4	0.030 3							
396.426 14	0.010 2	632.4818	1⁻,2⁻	236.0453	3⁻			
[x]397.020 16	0.010 2							
397.330 14	0.010 2	1293.902	1⁻,2⁻	896.5723	1⁻,2⁻			
397.672 13	0.010 2	1458.988	3⁻	1061.285	3⁻			
398.293 2	0.130 4	1513.565	1⁻,2⁻	1115.266	3⁻			
398.650 5	0.070 4	453.8249	2⁻	55.1812	1⁻			
398.844 12	0.020 2	1157.2384	3⁻	758.398	4⁺			
400.703[a] 11	0.030[a] 5	1047.124	1⁻,2⁻	646.411	0⁺			
400.703[a] 11	0.030[a] 5	1496.201	3⁻	1095.499	3⁺			
[x]400.880 18	0.020 2							
401.567 11	0.030 2	764.483	4⁻	362.8994	2⁻			
402.297 20	0.010 3	1293.902	1⁻,2⁻	891.616	1⁻,2⁻			
403.141 7	0.050 2	1560.407	3⁻	1157.2384	3⁻			
[x]403.444 6	0.300 15							
404.547 4	0.040 4	495.5114	1⁻	91.0057	0⁻	M1	0.1483	α(K)=0.1222 18; α(L)=0.0200 3; α(M)=0.00463 7; α(N+..)=0.001381 20
405.102 12	0.010 2	1191.566	1⁺,2⁺,3⁺	786.5357	2⁻			
405.514 8	0.020 2	1297.133	1⁻,2⁻,3⁻	891.616	1⁻,2⁻			
406.009 3	0.050 5	406.0081	2⁻	0.0	2⁻			
406.397[a] 8	0.010[a] 1	1108.873	1⁻,2⁻	702.4811	2⁻			
406.397[a] 8	0.010[a] 1	1363.350	1⁻,2⁻,3⁻	956.9534	1⁻,2⁻			
406.757[a] 18	0.010[a] 2	1032.254	3⁻	625.4303	3⁻			
406.757[a] 18	0.010[a] 2	1301.045	2⁻	894.2718	3⁻			
406.757[a] 18	0.010[a] 2	1453.858	3⁻	1047.124	1⁻,2⁻			
408.558 8	0.030 1	1396.142	3⁻	987.5746	3⁻			
[x]409.802 13	0.020 5							
[x]411.010 8	0.020 2							

$^{198}_{79}Au_{119}$-13

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]411.293 *8*	0.020 *2*							
[x]412.757 *18*	0.050 *8*							
413.289 *5*	0.070 *2*	672.6549	1$^-$,2$^-$	259.3404	1$^-$			
[x]413.485 *2*	0.320 *3*							
414.583 *17*	0.010 *2*	1371.502	1$^-$,2$^-$	956.9534	1$^-$,2$^-$			
414.955 *6*	0.030 *3*	868.7736	3$^-$	453.8249	2$^-$			
418.321 *13*	0.030 *2*	786.5357	2$^-$	368.2549	1$^-$			
418.840 *2*	0.950 *10*	800.0391	2$^-$	381.2003	3$^+$	E1[‡]	0.01257	α(K)=0.01043 *15*; α(L)=0.001649 *23*; α(M)=0.000380 *6*; α(N+..)=0.0001119 *16* α(K)=0.0283; α(L)=0.0094; α(M)=0.00232; α(N+..)=0.00072 E2 (1996Ma70,1996Ma75).
419.199 *5*	0.100 *2*	868.7736	3$^-$	449.5703	3$^-$	M1	0.1348	α(K)=0.1112 *16*; α(L)=0.0182 *3*; α(M)=0.00421 *6*; α(N+..)=0.001254 *18*
[x]419.802 *10*	0.030 *2*							
421.646 *6*	0.040 *3*	1453.858	3$^-$	1032.254	3$^-$			
[x]422.994 *19*	0.040 *14*							
423.100 *7*	0.030 *2*	918.5890	1$^-$,2$^-$	495.5114	1$^-$			
423.641 *8*	0.020 *1*	786.5357	2$^-$	362.8994	2$^-$			
424.220 *4*	0.060 *3*	1056.719	2$^-$	632.4818	1$^-$,2$^-$	M1	0.1306	α(K)=0.1077 *15*; α(L)=0.01761 *25*; α(M)=0.00408 *6*; α(N+..)=0.001215 *17*
425.081 *8*	0.030 *1*	672.6549	1$^-$,2$^-$	247.5731	1$^-$			
[x]427.176 *6*	0.050 *2*							
[x]428.197 *10*	0.020 *1*							
[x]430.361 *4*	0.070 *3*							
432.169 *11*	0.010 *1*	1104.847	0$^-$,1$^-$,2$^-$	672.6549	1$^-$,2$^-$			
[x]432.700 *3*	0.110 *3*							
432.96 *10*	0.020 *11*	1232.8022	3$^-$	800.0391	2$^-$			
433.457 *6*	0.030 *2*	801.7064	1$^-$,2$^-$	368.2549	1$^-$			
[x]434.395 *16*	0.250 *75*							
435.861 *24*	0.010 *2*	1061.285	3$^-$	625.4303	3$^-$			
436.037 *8*	0.020 *2*	1304.8246	3$^-$	868.7736	3$^-$			
436.614 *4*	0.040 *2*	672.6549	1$^-$,2$^-$	236.0453	3$^-$			
437.127 *6*	0.020 *2*	800.0391	2$^-$	362.8994	2$^-$			
[x]437.805 *4*	0.040 *2*							
438.805 *10*	0.010 *1*	801.7064	1$^-$,2$^-$	362.8994	2$^-$			
[x]439.507 *3*	0.860 *9*							
439.63 *4*	0.100 *35*	786.5357	2$^-$	346.9062	2$^-$			
440.11 *4*	0.100 *35*	1487.136	1$^-$,2$^-$	1047.124	1$^-$,2$^-$			
440.331 *3*	1.240 *12*	495.5114	1$^-$	55.1812	1$^-$	M1	0.1183	α(K)=0.0976 *14*; α(L)=0.01594 *23*; α(M)=0.00369 *6*; α(N+..)=0.001099 *16*
441.065 *7*	0.120 *3*	702.4811	2$^-$	261.4047	2$^-$	M1	0.1178	α(K)=0.0972 *14*; α(L)=0.01587 *23*; α(M)=0.00367 *6*; α(N+..)=0.001094 *16*
442.081 *14*	0.020 *2*	891.616	1$^-$,2$^-$	449.5703	3$^-$			
442.379[a] *5*	0.050[a] *2*	789.2973	1$^-$	346.9062	2$^-$			

$^{198}_{79}Au_{119}$-14

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
442.379[a] *5*	0.050[a] *2*	1399.342	2⁻,3⁻	956.9534	1⁻,2⁻			
[x]443.774 *4*	0.080 *2*							
443.85[a] *3*	0.120[a] *18*	1335.543	1⁻,2⁻,3⁻	891.616	1⁻,2⁻			
443.85[a] *3*	0.120[a] *18*	1338.171	3⁻	894.2718	3⁻			
443.85[a] *3*	0.120[a] *18*	1505.178	1⁻,2⁻	1061.285	3⁻			
444.393 *3*	0.760 *8*	703.7299	1⁻	259.3404	1⁻	M1	0.1155	α(K)=0.0952 *14*; α(L)=0.01555 *22*; α(M)=0.00360 *5*; α(N+..)=0.001073 *15*
444.754 *6*	0.070 *2*	1363.350	1⁻,2⁻,3⁻	918.5890	1⁻,2⁻			
446.177 *4*	0.080 *3*	758.398	4⁺	312.2227	5⁺	M1	0.1142	α(K)=0.0942 *14*; α(L)=0.01538 *22*; α(M)=0.00356 *5*; α(N+..)=0.001061 *15*
446.997[a] *11*	0.020[a] *2*	896.5723	1⁻,2⁻	449.5703	3⁻			
446.997[a] *11*	0.020[a] *2*	1434.584	1⁻,2⁻	987.5746	3⁻			
447.522[a] *5*	0.050[a] *2*	810.426	3⁺	362.8994	2⁻			
447.522[a] *5*	0.050[a] *2*	1272.1512	3⁻	824.609	3⁺			
448.004 *17*	0.010 *1*	1404.893	2⁻,3⁻	956.9534	1⁻,2⁻			
448.566 *3*	0.160 *3*	1431.645	2⁻,3⁻	983.0869	2⁺			
448.924 *8*	0.030 *2*	1380.885	3⁻	931.948	3⁻			
449.572 *3*	0.670 *7*	449.5703	3⁻	0.0	2⁻	M1	0.1120	α(K)=0.0924 *13*; α(L)=0.01508 *22*; α(M)=0.00349 *5*; α(N+..)=0.001040 *15*
451.359 *18*	0.010 *1*	1286.747	2⁻	835.366	3⁻			
451.944 *12*	0.020 *2*	1423.795	3⁻	971.8210	3⁻			
453.147 *9*	0.040 *2*	800.0391	2⁻	346.9062	2⁻			
[x]453.385 *17*	0.020 *2*							
453.810 *4*	0.080 *2*	453.8249	2⁻	0.0	2⁻			
454.887[a] *6*	0.040[a] *2*	702.4811	2⁻	247.5731	1⁻			
454.887[a] *6*	0.040[a] *2*	1487.136	1⁻,2⁻	1032.254	3⁻			
456.172 *8*	0.190 *17*	703.7299	1⁻	247.5731	1⁻	M1	0.1077	α(K)=0.0889 *13*; α(L)=0.01450 *21*; α(M)=0.00335 *5*; α(N+..)=0.001000 *14*
456.290 *4*	0.630 *6*	1160.018	3⁻	703.7299	1⁻			
457.090[a] *15*	0.010[a] *3*	987.5746	3⁻	530.4782	1⁻			
457.090[a] *15*	0.010[a] *3*	1202.268	2⁻	745.2188	1⁻,2⁻			
457.090[a] *15*	0.010[a] *3*	1325.834	2⁻	868.7736	3⁻			
457.65[a] *7*	0.050[a] *18*	672.6549	1⁻,2⁻	214.9715	4⁻			
457.65[a] *7*	0.050[a] *18*	1160.018	3⁻	702.4811	2⁻			
458.049[a] *3*	0.390[a] *4*	786.5357	2⁻	328.4833	3⁻	M1	0.1066	α(K)=0.0879 *13*; α(L)=0.01434 *20*; α(M)=0.00332 *5*; α(N+..)=0.000989 *14*
458.049[a] *3*	0.390[a] *4*	1418.687	3⁺,4⁺	960.633	3⁺	M1	0.1066	α(K)=0.0879 *13*; α(L)=0.01434 *20*; α(M)=0.00332 *5*; α(N+..)=0.000989 *14*
458.049[a] *3*	0.390[a] *4*	1505.178	1⁻,2⁻	1047.124	1⁻,2⁻	M1	0.1066	α(K)=0.0879 *13*; α(L)=0.01434 *20*; α(M)=0.00332 *5*; α(N+..)=0.000989 *14*
458.369 *4*	0.220 *22*	1095.499	3⁺	637.125	4⁺	M1	0.1064	α(K)=0.0878 *13*; α(L)=0.01431 *20*; α(M)=0.00331 *5*; α(N+..)=0.000987 *14*

$^{198}_{79}Au_{119}$-15

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
459.514 *12*	0.030 *2*	1375.989	1⁻,2⁻	916.4440	1⁻,2⁻			
460.385 *5*	0.080 *3*	1092.876	0⁻	632.4818	1⁻,2⁻			
461.715[a] *21*	0.020[a] *2*	824.609	3⁺	362.8994	2⁻			
461.715[a] *21*	0.020[a] *2*	1272.1512	3⁻	810.426	3⁺			
461.715[a] *21*	0.020[a] *2*	1297.133	1⁻,2⁻,3⁻	835.366	3⁻			
461.715[a] *21*	0.020[a] *2*	1418.687	3⁺,4⁺	956.9534	1⁻,2⁻			
464.21[a] *3*	0.010[a] *2*	1209.370	3⁻	745.2188	1⁻,2⁻			
464.21[a] *3*	0.010[a] *2*	1396.142	3⁻	931.948	3⁻			
464.754 *21*	0.230 *78*	918.5890	1⁻,2⁻	453.8249	2⁻			
466.459 *7*	0.080 *3*	1513.565	1⁻,2⁻	1047.124	1⁻,2⁻			
[x]466.712 *13*	0.040 *2*							
469.027 *7*	0.040 *2*	918.5890	1⁻,2⁻	449.5703	3⁻			
469.294 *12*	0.110 *8*	728.672	0⁻	259.3404	1⁻	M1	0.0999	α(K)=0.0825 *12*; α(L)=0.01344 *19*; α(M)=0.00311 *5*; α(N+..)=0.000927 *13*
[x]469.701 *15*	0.020 *2*							
[x]471.122 *13*	0.010 *1*							
471.739 *8*	0.030 *2*	1363.350	1⁻,2⁻,3⁻	891.616	1⁻,2⁻			
[x]471.983 *8*	0.030 *2*							
[x]472.425 *10*	0.050 *2*							
473.219 *8*	0.020 *3*	801.7064	1⁻,2⁻	328.4833	3⁻			
473.978 *7*	0.060 *1*	529.1687	3⁻	55.1812	1⁻			
476.24 *9*	0.020 *2*	1286.747	2⁻	810.426	3⁺			
[x]476.855 *11*	0.030 *11*							
[x]477.211 *19*	0.010 *1*							
478.323 *24*	0.010 *1*	960.633	3⁺	482.3273	4⁺			
478.83 *3*	0.020 *2*	1554.429	1⁻,2⁻	1075.560	1⁻,2⁻,3⁻			
480.196 *22*	0.040 *3*	571.2430	1⁻	91.0057	0⁻			
481.945 *9*	0.080 *4*	810.426	3⁺	328.4833	3⁻			
483.305 *15*	0.020 *2*	1318.628	1⁻,2⁻	835.366	3⁻			
483.41[a] *5*	0.010[a] *1*	1032.254	3⁻	548.9343	2⁻			
483.41[a] *5*	0.010[a] *1*	1108.873	1⁻,2⁻	625.4303	3⁻			
483.41[a] *5*	0.010[a] *1*	1402.086	1⁻,2⁻	918.5890	1⁻,2⁻			
484.536[a] *15*	0.020[a] *2*	1157.2384	3⁻	672.6549	1⁻,2⁻			
484.536[a] *15*	0.020[a] *2*	1472.097	3⁻	987.5746	3⁻			
485.638 *5*	0.220 *20*	1402.086	1⁻,2⁻	916.4440	1⁻,2⁻			
485.891 *18*	0.050 *4*	745.2188	1⁻,2⁻	259.3404	1⁻			
487.167 *7*	0.080 *4*	1458.988	3⁻	971.8210	3⁻			
487.589[a] *3*	0.090[a] *7*	983.0869	2⁺	495.5114	1⁻			
487.589[a] *3*	0.090[a] *7*	1232.8022	3⁻	745.2188	1⁻,2⁻			
488.043 *8*	0.040 *4*	1475.622	2⁻	987.5746	3⁻			
489.273[a] *5*	0.050[a] *4*	1018.430	1⁻,2⁻	529.1687	3⁻			
489.273[a] *5*	0.050[a] *4*	1380.885	3⁻	891.616	1⁻,2⁻			

$^{198}_{79}Au_{119}$-16

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
489.273[a] 5	0.050[a] 4	1536.380	1⁻,2⁻,3⁻	1047.124	1⁻,2⁻			
[x]490.329 5	0.050 6							
490.616 7	0.050 2	1301.045	2⁻	810.426	3⁺			
[x]490.948 12	0.040 4							
492.063 3	0.110 3	987.5746	3⁻	495.5114	1⁻			
495.955 4	0.050 6	1390.227	2⁻	894.2718	3⁻			
[x]496.538 8	0.030 4							
[x]496.97 4	0.010 2							
497.687 11	0.030 2	1554.429	1⁻,2⁻	1056.719	2⁻			
[x]498.049 9	0.020 1							
[x]498.461 4	0.470 9					M1	0.0852	α(K)=0.0704 10; α(L)=0.01145 16; α(M)=0.00265 4; α(N+..)=0.000789 11
[x]498.882 2	0.310 6							
499.562[a] 19	0.020[a] 2	1396.142	3⁻	896.5723	1⁻,2⁻			
499.562[a] 19	0.020[a] 2	1487.136	1⁻,2⁻	987.5746	3⁻			
502.030 6	0.030 11	1458.988	3⁻	956.9534	1⁻,2⁻			
502.463 13	0.220 48	1453.858	3⁻	951.443	3⁺			
[x]503.890 11	0.020 3							
504.105 6	0.080 5	1536.380	1⁻,2⁻,3⁻	1032.254	3⁻			
[x]506.145 10	0.020 3							
[x]507.481 20	0.030 5							
[x]509.72 6	0.130 3							
510.405 11	0.260 83	916.4440	1⁻,2⁻	406.0081	2⁻	M1	0.0801	α(K)=0.0661 10; α(L)=0.01075 15; α(M)=0.00249 4; α(N+..)=0.000741 11
510.785 11	0.040 5	703.7299	1⁻	192.9440	1⁻			
511.103 18	0.150 23	960.633	3⁺	449.5703	3⁻			
511.517 2	0.920 83	511.5173	3⁻	0.0	2⁻	M1	0.0796	α(K)=0.0657 10; α(L)=0.01069 15; α(M)=0.00247 4; α(N+..)=0.000737 11
512.581 8	0.230 60	918.5890	1⁻,2⁻	406.0081	2⁻	M1	0.0792	α(K)=0.0654 10; α(L)=0.01063 15; α(M)=0.00246 4; α(N+..)=0.000733 11
[x]513.44 6	0.110 2							
515.140[a] 4	0.140[a] 7	1409.399	3⁻	894.2718	3⁻			
515.140[a] 4	0.140[a] 5	1472.097	3⁻	956.9534	1⁻,2⁻			
516.061 2	0.470 10	571.2430	1⁻	55.1812	1⁻	M1	0.0778	α(K)=0.0642 9; α(L)=0.01044 15; α(M)=0.00241 4; α(N+..)=0.000720 10
516.891[a] 18	0.020[a] 2	764.483	4⁻	247.5731	1⁻			
516.891[a] 18	0.020[a] 2	1318.628	1⁻,2⁻	801.7064	1⁻,2⁻			
[x]517.932 8	0.030 2							
[x]518.790 6	0.050 4							
[x]519.17 3	0.28 11							
[x]519.50 3	0.25 11							
520.62[a] 4	0.26[a] 10	1032.254	3⁻	511.5173	3⁻			
520.62[a] 4	0.26[a] 10	1472.097	3⁻	951.443	3⁺			
521.878[a] 13	0.020[a] 4	868.7736	3⁻	346.9062	2⁻			
521.878[a] 13	0.020[a] 4	1453.858	3⁻	931.948	3⁻			
522.247 3	0.110 8	971.8210	3⁻	449.5703	3⁻			
522.35 3	0.130 1	758.398	4⁺	236.0453	3⁻			
[x]522.648 12	0.070 3							

$^{198}_{79}Au_{119}$-17

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
522.917 *9*	0.040 *4*	1018.430	1⁻,2⁻	495.5114	1⁻			
524.744 *20*	0.36 *10*	1157.2384	3⁻	632.4818	1⁻,2⁻			
525.124 *2*	0.450 *16*	786.5357	2⁻	261.4047	2⁻			
525.838 *7*	0.060 *6*	1325.834	2⁻	800.0391	2⁻			
527.169 *6*	0.070 *9*	786.5357	2⁻	259.3404	1⁻			
[x]527.842 *4*	0.150 *14*					M1	0.0733	α(K)=0.0606 *9*; α(L)=0.00983 *14*; α(M)=0.00227 *4*; α(N+..)=0.000678 *10*
529.170 *2*	2.45 *7*	529.1687	3⁻	0.0	2⁻	M1	0.0729	α(K)=0.0602 *9*; α(L)=0.00977 *14*; α(M)=0.00226 *4*; α(N+..)=0.000673 *10*
529.948 *3*	0.530 *21*	789.2973	1⁻	259.3404	1⁻	M1	0.0726	α(K)=0.0599 *9*; α(L)=0.00973 *14*; α(M)=0.00225 *4*; α(N+..)=0.000671 *10*
530.476 *6*	0.070 *2*	530.4782	1⁻	0.0	2⁻			
532.20[a] *5*	0.020[a] *2*	1061.285	3⁻	529.1687	3⁻			
532.20[a] *5*	0.020[a] *2*	1318.628	1⁻,2⁻	786.5357	2⁻			
532.20[a] *5*	0.020[a] *2*	1423.795	3⁻	891.616	1⁻,2⁻			
533.748 *4*	0.080 *4*	987.5746	3⁻	453.8249	2⁻			
535.77 *3*	0.020 *5*	728.672	0⁻	192.9440	1⁻			
[x]537.598 *3*	0.150 *3*					M1	0.0699	α(K)=0.0577 *8*; α(L)=0.00937 *14*; α(M)=0.00217 *3*; α(N+..)=0.000646 *9*
538.011[a] *17*	0.030[a] *2*	987.5746	3⁻	449.5703	3⁻			
538.011[a] *17*	0.030[a] *2*	1434.584	1⁻,2⁻	896.5723	1⁻,2⁻			
538.991 *19*	0.020 *4*	786.5357	2⁻	247.5731	1⁻			
540.298 *2*	0.660 *13*	801.7064	1⁻,2⁻	261.4047	2⁻	M1	0.0690	α(K)=0.0570 *8*; α(L)=0.00925 *13*; α(M)=0.00214 *3*; α(N+..)=0.000637 *9*
[x]540.915 *3*	0.190 *17*					M1	0.0688	α(K)=0.0568 *8*; α(L)=0.00922 *13*; α(M)=0.00213 *3*; α(N+..)=0.000635 *9*
542.373[a] *8*	0.140[a] *3*	801.7064	1⁻,2⁻	259.3404	1⁻			
542.373[a] *8*	0.140[a] *3*	1306.859	2⁻	764.483	4⁻			
544.002 *3*	0.670 *20*	544.0095	4⁻	0.0	2⁻	E2	0.0211	α(K)=0.01571 *22*; α(L)=0.00410 *6*; α(M)=0.000996 *14*; α(N+..)=0.000291 *4*
[x]546.143 *9*	0.040 *4*							
[x]547.199 *9*	0.030 *3*							
548.246 *10*	0.030 *5*	1505.178	1⁻,2⁻	956.9534	1⁻,2⁻			
548.930 *2*	0.900 *27*	548.9343	2⁻	0.0	2⁻	M1	0.0662	α(K)=0.0547 *8*; α(L)=0.00887 *13*; α(M)=0.00205 *3*; α(N+..)=0.000611 *9*
[x]549.34 *3*	0.27 *11*							
549.512 *12*	0.050 *2*	764.483	4⁻	214.9715	4⁻			
549.68[a] *3*	0.020[a] *4*	896.5723	1⁻,2⁻	346.9062	2⁻			
549.68[a] *3*	0.020[a] *4*	999.213	1⁻,2⁻	449.5703	3⁻			
549.68[a] *3*	0.020[a] *4*	1061.285	3⁻	511.5173	3⁻			
[x]550.227 *15*	0.040 *4*							
550.527 *18*	0.050 *7*	786.5357	2⁻	236.0453	3⁻			
550.748 *22*	0.030 *5*	931.948	3⁻	381.2003	3⁺			
550.939 *14*	0.050 *6*	956.9534	1⁻,2⁻	406.0081	2⁻			
[x]551.699 *9*	0.710 *43*					M1	0.0653	α(K)=0.0539 *8*; α(L)=0.00875 *13*; α(M)=0.00202 *3*; α(N+..)=0.000603 *9*
[x]552.127 *7*	0.170 *3*							
552.490 *9*	0.140 *3*	800.0391	2⁻	247.5731	1⁻	M1	0.0651	α(K)=0.0537 *8*; α(L)=0.00872 *13*; α(M)=0.00202 *3*; α(N+..)=0.000601 *9*
552.98[a] *15*	0.030[a] *15*	789.2973	1⁻	236.0453	3⁻			
552.98[a] *15*	0.030[a] *15*	1363.350	1⁻,2⁻,3⁻	810.426	3⁺			

$^{198}_{79}Au_{119}$-18

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
552.98[a] *15*	0.030[a] *15*	1444.396	3$^-$	891.616	1$^-$,2$^-$			
552.98[a] *15*	0.030[a] *15*	1513.565	1$^-$,2$^-$	960.633	3$^+$			
552.98[a] *15*	0.030[a] *15*	1536.380	1$^-$,2$^-$,3$^-$	983.0869	2$^+$			
554.144 *14*	0.020 *2*	801.7064	1$^-$,2$^-$	247.5731	1$^-$			
555.691 *3*	0.170 *5*	918.5890	1$^-$,2$^-$	362.8994	2$^-$	M1	0.0641	α(K)=0.0529 *8*; α(L)=0.00858 *12*; α(M)=0.00198 *3*; α(N+..)=0.000592 *9*
[x]556.598 *6*	0.060 *2*							
557.036 *18*	0.030 *3*	1475.622	2$^-$	918.5890	1$^-$,2$^-$			
[x]557.63 *3*	0.020 *4*							
[x]559.343 *18*	0.030 *1*							
563.97[a] *3*	0.030[a] *4*	800.0391	2$^-$	236.0453	3$^-$			
563.97[a] *3*	0.030[a] *4*	1075.560	1$^-$,2$^-$,3$^-$	511.5173	3$^-$			
563.97[a] *3*	0.030[a] *4*	1399.342	2$^-$,3$^-$	835.366	3$^-$			
564.71 *3*	0.030 *4*	1458.988	3$^-$	894.2718	3$^-$			
565.777 *5*	0.520 *5*	894.2718	3$^-$	328.4833	3$^-$	M1	0.0612	α(K)=0.0505 *7*; α(L)=0.00819 *12*; α(M)=0.00189 *3*; α(N+..)=0.000564 *8*
566.32[a] *3*	0.030[a] *5*	1095.499	3$^+$	529.1687	3$^-$			
566.32[a] *3*	0.030[a] *5*	1115.266	3$^-$	548.9343	2$^-$			
566.80[a] *4*	0.030[a] *5*	1402.086	1$^-$,2$^-$	835.366	3$^-$			
566.80[a] *4*	0.030[a] *5*	1554.429	1$^-$,2$^-$	987.5746	3$^-$			
567.33 *5*	0.020 *5*	1458.988	3$^-$	891.616	1$^-$,2$^-$			
568.116 *11*	0.040 *7*	896.5723	1$^-$,2$^-$	328.4833	3$^-$			
570.02 *10*	0.030 *2*	1371.502	1$^-$,2$^-$	801.7064	1$^-$,2$^-$			
571.694 *5*	0.670 *27*	918.5890	1$^-$,2$^-$	346.9062	2$^-$	M1	0.0595	α(K)=0.0492 *7*; α(L)=0.00796 *12*; α(M)=0.00184 *3*; α(N+..)=0.000549 *8*
[x]572.742 *13*	0.040 *4*							
573.27[a] *8*	0.170[a] *5*	1318.628	1$^-$,2$^-$	745.2188	1$^-$,2$^-$			
573.27[a] *8*	0.170[a] *5*	1505.178	1$^-$,2$^-$	931.948	3$^-$			
573.750 *8*	0.130 *8*	1530.702	1$^-$,2$^-$	956.9534	1$^-$,2$^-$			
573.953 *24*	0.450 *9*	835.366	3$^-$	261.4047	2$^-$			
574.373 *13*	0.200 *6*	1104.847	0$^-$,1$^-$,2$^-$	530.4782	1$^-$	M1	0.0588	α(K)=0.0486 *7*; α(L)=0.00787 *11*; α(M)=0.00182 *3*; α(N+..)=0.000542 *8*
574.83 *5*	0.140 *3*	1399.342	2$^-$,3$^-$	824.609	3$^+$			
[x]574.993 *9*	0.060 *4*							
575.536 *11*	0.050 *4*	1472.097	3$^-$	896.5723	1$^-$,2$^-$			
577.287 *4*	0.360 *7*	632.4818	1$^-$,2$^-$	55.1812	1$^-$	M1	0.0580	α(K)=0.0479 *7*; α(L)=0.00776 *11*; α(M)=0.00179 *3*; α(N+..)=0.000535 *8*
578.959 *14*	0.050 *4*	1061.285	3$^-$	482.3273	4$^+$			
579.296 *9*	0.710 *50*	918.5890	1$^-$,2$^-$	339.2909	1$^-$			
[x]579.826 *12*	0.060 *4*							
[x]581.469 *23*	0.020 *1*							
[x]584.160 *10*	0.100 *2*					M1	0.0563	α(K)=0.0465 *7*; α(L)=0.00752 *11*; α(M)=0.001739 *25*; α(N+..)=0.000518 *8*
584.73 *8*	0.060 *24*	1115.266	3$^-$	530.4782	1$^-$			
[x]585.359 *21*	0.030 *2*							
588.419 *6*	0.090 *2*	1423.795	3$^-$	835.366	3$^-$			
591.228 *6*	0.110 *2*	646.411	0$^+$	55.1812	1$^-$			
591.625[a] *16*	0.040[a] *5*	1380.885	3$^-$	789.2973	1$^-$			

$^{198}_{79}Au_{119}$-19

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
591.625[a] *16*	0.040[a] *5*	1402.086	1⁻,2⁻	810.426	3⁺			
593.177 *13*	0.200 *13*	999.213	1⁻,2⁻	406.0081	2⁻	M1	0.0541	α(K)=0.0447 *7*; α(L)=0.00723 *11*; α(M)=0.001670 *24*; α(N+..)=0.000498 *7*
[x]593.982 *20*	0.030 *4*							
594.19[a] *5*	0.060[a] *10*	956.9534	1⁻,2⁻	362.8994	2⁻			
594.19[a] *5*	0.060[a] *10*	1418.687	3⁺,4⁺	824.609	3⁺			
595.423 *14*	0.030 *4*	810.426	3⁺	214.9715	4⁻			
597.49[a] *3*	0.030[a] *6*	1047.124	1⁻,2⁻	449.5703	3⁻			
597.49[a] *3*	0.030[a] *6*	1554.429	1⁻,2⁻	956.9534	1⁻,2⁻			
597.71[a] *5*	0.050[a] *4*	960.633	3⁺	362.8994	2⁻			
597.71[a] *5*	0.050[a] *4*	1399.342	2⁻,3⁻	801.7064	1⁻,2⁻			
598.846 *17*	0.030 *4*	1363.350	1⁻,2⁻,3⁻	764.483	4⁻			
[x]602.271 *4*	0.830 *8*					M1	0.0520	α(K)=0.0429 *6*; α(L)=0.00694 *10*; α(M)=0.001605 *23*; α(N+..)=0.000478 *7*
607.20 *4*	0.030 *8*	1056.719	2⁻	449.5703	3⁻			
607.914 *13*	0.040 *4*	1240.385	3⁻	632.4818	1⁻,2⁻			
608.83 *4*	0.020 *5*	801.7064	1⁻,2⁻	192.9440	1⁻			
[x]609.396 *5*	0.160 *8*							
[x]609.815 *22*	0.030 *5*							
[x]611.025 *7*	0.120 *6*					M1	0.0500	α(K)=0.0414 *6*; α(L)=0.00669 *10*; α(M)=0.001545 *22*; α(N+..)=0.000461 *7*
612.125 *9*	0.060 *4*	1530.702	1⁻,2⁻	918.5890	1⁻,2⁻			
612.724 *6*	0.140 *4*	703.7299	1⁻	91.0057	0⁻	M1	0.0497	α(K)=0.0411 *6*; α(L)=0.00664 *10*; α(M)=0.001534 *22*; α(N+..)=0.000457 *7*
612.93[a] *7*	0.130[a] *25*	1399.342	2⁻,3⁻	786.5357	2⁻			
612.93[a] *7*	0.130[a] *25*	1402.086	1⁻,2⁻	789.2973	1⁻			
613.844 *9*	0.060 *4*	1359.038	1⁻,2⁻,3⁻	745.2188	1⁻,2⁻			
614.98[a] *6*	0.020[a] *7*	983.0869	2⁺	368.2549	1⁻			
614.98[a] *6*	0.020[a] *7*	1240.385	3⁻	625.4303	3⁻			
614.98[a] *6*	0.020[a] *7*	1318.628	1⁻,2⁻	703.7299	1⁻			
615.582[a] *9*	0.070[a] *4*	1402.086	1⁻,2⁻	786.5357	2⁻			
615.582[a] *9*	0.070[a] *4*	1404.893	2⁻,3⁻	789.2973	1⁻			
616.386 *10*	0.060 *8*	1380.885	3⁻	764.483	4⁻			
617.04[a] *3*	0.030[a] *5*	1418.687	3⁺,4⁺	801.7064	1⁻,2⁻			
617.04[a] *3*	0.030[a] *5*	1513.565	1⁻,2⁻	896.5723	1⁻,2⁻			
619.105 *8*	0.100 *4*	1265.524	1⁻,2⁻,3⁻	646.411	0⁺			
620.398[a] *21*	0.040[a] *5*	835.366	3⁻	214.9715	4⁻			
620.398[a] *21*	0.040[a] *5*	1191.566	1⁺,2⁺,3⁺	571.2430	1⁻			
[x]621.570 *9*	0.060 *3*							
[x]623.148 *12*	0.050 *4*							
623.757 *12*	0.060 *5*	1423.795	3⁻	800.0391	2⁻	M1	0.0474	α(K)=0.0392 *6*; α(L)=0.00633 *9*; α(M)=0.001464 *21*; α(N+..)=0.000436 *7*
625.429 *3*	0.550 *33*	625.4303	3⁻	0.0	2⁻	M1	0.0471	α(K)=0.0389 *6*; α(L)=0.00629 *9*; α(M)=0.001453 *21*; α(N+..)=0.000433 *6*

$^{198}_{79}Au_{119}$-20

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]628.715 *14*	0.050 *5*							
630.235 *14*	0.060 *5*	891.616	1⁻,2⁻	261.4047	2⁻	M1	0.0462	α(K)=0.0382 *6*; α(L)=0.00616 *9*; α(M)=0.001424 *20*; α(N+..)=0.000425 *6*
630.945 *17*	0.040 *7*	999.213	1⁻,2⁻	368.2549	1⁻			
632.281[a] *7*	0.230[a] *9*	891.616	1⁻,2⁻	259.3404	1⁻	M1	0.0458	α(K)=0.0378 *6*; α(L)=0.00611 *9*; α(M)=0.001412 *20*; α(N+..)=0.000421 *6*
632.281[a] *7*	0.230[a] *9*	1038.2745	3⁻	406.0081	2⁻	M1	0.0458	α(K)=0.0378 *6*; α(L)=0.00611 *9*; α(M)=0.001412 *20*; α(N+..)=0.000421 *6*
632.502 *13*	0.110 *8*	632.4818	1⁻,2⁻	0.0	2⁻			
[x]633.822 *7*	0.180 *7*					M1	0.0455	α(K)=0.0376 *6*; α(L)=0.00607 *9*; α(M)=0.001403 *20*; α(N+..)=0.000418 *6*
635.197 *10*	0.320 *13*	896.5723	1⁻,2⁻	261.4047	2⁻	M1	0.0452	α(K)=0.0374 *6*; α(L)=0.00604 *9*; α(M)=0.001395 *20*; α(N+..)=0.000416 *6*
635.848 *7*	0.110 *4*	1554.429	1⁻,2⁻	918.5890	1⁻,2⁻	M1	0.0451	α(K)=0.0373 *6*; α(L)=0.00602 *9*; α(M)=0.001392 *20*; α(N+..)=0.000415 *6*
636.285 *18*	0.030 *6*	999.213	1⁻,2⁻	362.8994	2⁻			
[x]638.834 *11*	0.060 *5*							
639.04[a] *3*	0.060[a] *3*	1092.876	0⁻	453.8249	2⁻			
639.04[a] *3*	0.060[a] *3*	1530.702	1⁻,2⁻	891.616	1⁻,2⁻			
639.201 *12*	0.060 *5*	951.443	3⁺	312.2227	5⁺			
639.662 *11*	0.070 *5*	1272.1512	3⁻	632.4818	1⁻,2⁻			
640.071 *13*	0.060 *5*	1265.524	1⁻,2⁻,3⁻	625.4303	3⁻			
640.665 *6*	0.810 *65*	987.5746	3⁻	346.9062	2⁻	M1	0.0443	α(K)=0.0366 *6*; α(L)=0.00590 *9*; α(M)=0.001364 *19*; α(N+..)=0.000407 *6*
642.06 *6*	0.010 *2*	1536.380	1⁻,2⁻,3⁻	894.2718	3⁻			
[x]643.223 *19*	0.060 *2*							
644.039 *9*	0.080 *3*	891.616	1⁻,2⁻	247.5731	1⁻			
[x]645.477 *22*	0.050 *3*							
647.307[a] *6*	0.170[a] *9*	702.4811	2⁻	55.1812	1⁻	M1	0.0431	α(K)=0.0356 *5*; α(L)=0.00575 *8*; α(M)=0.001328 *19*; α(N+..)=0.000396 *6*
647.307[a] *6*	0.170[a] *9*	1375.989	1⁻,2⁻	728.672	0⁻	M1	0.0431	α(K)=0.0356 *5*; α(L)=0.00575 *8*; α(M)=0.001328 *19*; α(N+..)=0.000396 *6*
[x]647.652 *7*	0.160 *18*					M1	0.0430	α(K)=0.0356 *5*; α(L)=0.00574 *8*; α(M)=0.001326 *19*; α(N+..)=0.000395 *6*
648.573[a] *22*	0.040[a] *5*	703.7299	1⁻	55.1812	1⁻			
648.573[a] *22*	0.040[a] *5*	1458.988	3⁻	810.426	3⁺			
648.573[a] *22*	0.040[a] *5*	1542.793	3⁻	894.2718	3⁻			
648.959 *19*	0.080 *4*	896.5723	1⁻,2⁻	247.5731	1⁻	M1	0.0428	α(K)=0.0354 *5*; α(L)=0.00571 *8*; α(M)=0.001319 *19*; α(N+..)=0.000393 *6*
[x]649.617 *11*	0.070 *4*							
653.23 *4*	0.030 *5*	1325.834	2⁻	672.6549	1⁻,2⁻			
653.801[a] *13*	0.060[a] *5*	868.7736	3⁻	214.9715	4⁻			
653.801[a] *13*	0.060[a] *5*	1453.858	3⁻	800.0391	2⁻			
654.206 *7*	0.120 *8*	1418.687	3⁺,4⁺	764.483	4⁻	E1[‡]	0.00494	α(K)=0.00413 *6*; α(L)=0.000629 *9*; α(M)=0.0001443 *21*; α(N+..)=4.27×10⁻⁵ *6* α(K)=0.0360; α(L)=0.00582 M1 (1996Ma70,1996Ma75).
655.009 *8*	0.100 *5*	916.4440	1⁻,2⁻	261.4047	2⁻	M1	0.0418	α(K)=0.0345 *5*; α(L)=0.00557 *8*; α(M)=0.001287 *18*; α(N+..)=0.000384 *6*
655.529 *6*	0.280 *8*	1018.430	1⁻,2⁻	362.8994	2⁻	M1	0.0417	α(K)=0.0345 *5*; α(L)=0.00556 *8*; α(M)=0.001285 *18*; α(N+..)=0.000383 *6*
[x]656.23 *7*	0.020 *8*							
657.84[a] *7*	0.030[a] *9*	1444.396	3⁻	786.5357	2⁻			
657.84[a] *6*	0.030[a] *9*	1554.429	1⁻,2⁻	896.5723	1⁻,2⁻			
659.229 *7*	0.340 *7*	918.5890	1⁻,2⁻	259.3404	1⁻	M1	0.0411	α(K)=0.0340 *5*; α(L)=0.00548 *8*; α(M)=0.001266 *18*; α(N+..)=0.000377 *6*

$^{198}_{79}Au_{119}$-21

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]659.541 *16*	0.10 *1*							
660.322 *13*	0.090 *6*	1418.687	$3^+,4^+$	758.398	4^+			
[x]663.42 *3*	0.050 *6*							
664.152 *24*	0.070 *6*	1409.399	3^-	745.2188	$1^-,2^-$			
[x]664.476 *11*	0.190 *8*					M1	0.0403	α(K)=0.0333 *5*; α(L)=0.00537 *8*; α(M)=0.001240 *18*; α(N+..)=0.000370 *6*
666.17 *6*	0.070 *20*	1560.407	3^-	894.2718	3^-			
[x]667.522 *24*	0.050 *6*							
[x]668.336 *16*	0.120 *8*							
668.572 *7*	0.220 *11*	1301.045	2^-	632.4818	$1^-,2^-$			
670.58 *3*	0.040 *6*	931.948	3^-	261.4047	2^-			
[x]670.856 *18*	0.090 *6*							
[x]671.933 *22*	0.070 *13*					M1	0.0391	α(K)=0.0323 *5*; α(L)=0.00521 *8*; α(M)=0.001204 *17*; α(N+..)=0.000359 *5*
672.654 *3*	0.750 *3*	672.6549	$1^-,2^-$	0.0	2^-	M1	0.0390	α(K)=0.0322 *5*; α(L)=0.00520 *8*; α(M)=0.001201 *17*; α(N+..)=0.000358 *5*
673.460 *8*	0.170 *12*	728.672	0^-	55.1812	1^-	M1	0.0389	α(K)=0.0321 *5*; α(L)=0.00518 *8*; α(M)=0.001197 *17*; α(N+..)=0.000357 *5*
[x]674.700 *22*	0.070 *6*							
[x]674.99 *4*	0.140 *14*					M1	0.0387	α(K)=0.0320 *5*; α(L)=0.00515 *8*; α(M)=0.001190 *17*; α(N+..)=0.000355 *5*
678.29 *4*	0.56 *15*	1513.565	$1^-,2^-$	835.366	3^-			
679.135 *9*	0.100 *9*	1018.430	$1^-,2^-$	339.2909	1^-			
679.84 *3*	0.030 *5*	1444.396	3^-	764.483	4^-			
680.365 *16*	0.130 *8*	916.4440	$1^-,2^-$	236.0453	3^-			
681.40 *4*	0.020 *4*	1306.859	2^-	625.4303	3^-			
682.805 *6*	0.150 *6*	1472.097	3^-	789.2973	1^-			
[x]683.728 *14*	0.070 *5*							
[x]684.614 *21*	0.050 *6*							
[x]686.970 *5*	0.330 *7*					M1	0.0369	α(K)=0.0305 *5*; α(L)=0.00492 *7*; α(M)=0.001136 *16*; α(N+..)=0.000339 *5*
688.967 *5*	0.210 *17*	1513.565	$1^-,2^-$	824.609	3^+			
690.037 *4*	0.530 *21*	745.2188	$1^-,2^-$	55.1812	1^-	M1	0.0365	α(K)=0.0302 *5*; α(L)=0.00486 *7*; α(M)=0.001123 *16*; α(N+..)=0.000335 *5*
[x]691.056 *9*	0.110 *6*					M1	0.0364	α(K)=0.0301 *5*; α(L)=0.00484 *7*; α(M)=0.001119 *16*; α(N+..)=0.000334 *5*
[x]692.498 *18*	0.050 *3*							
[x]692.934 *21*	0.050 *6*							
[x]694.041 *24*	0.050 *3*							
695.654 *14*	0.070 *4*	1399.342	$2^-,3^-$	703.7299	1^-			
696.415 *15*	0.060 *3*	1240.385	3^-	544.0095	4^-	M1	0.0357	α(K)=0.0295 *5*; α(L)=0.00475 *7*; α(M)=0.001097 *16*; α(N+..)=0.000327 *5*
697.628 *13*	0.100 *7*	956.9534	$1^-,2^-$	259.3404	1^-			
698.304 *7*	0.200 *10*	789.2973	1^-	91.0057	0^-	M1	0.0354	α(K)=0.0293 *4*; α(L)=0.00471 *7*; α(M)=0.001089 *16*; α(N+..)=0.000325 *5*
[x]698.939 *8*	0.180 *6*							
700.29 *4*	0.050 *7*	1047.124	$1^-,2^-$	346.9062	2^-			
[x]701.545 *6*	0.300 *18*							
702.467 *4*	0.690 *7*	702.4811	2^-	0.0	2^-	M1	0.0349	α(K)=0.0288 *4*; α(L)=0.00464 *7*; α(M)=0.001072 *15*; α(N+..)=0.000320 *5*
703.78[a] *3*	0.050[a] *5*	703.7299	1^-	0.0	2^-	M1	0.0347	α(K)=0.0287 *4*; α(L)=0.00462 *7*; α(M)=0.001067 *15*; α(N+..)=0.000318 *5*
703.78[a] *3*	0.050[a] *5*	1032.254	3^-	328.4833	3^-			
705.10 *4*	0.060 *8*	1505.178	$1^-,2^-$	800.0391	2^-			
[x]705.358 *18*	0.130 *7*					M1	0.0345	α(K)=0.0285 *4*; α(L)=0.00459 *7*; α(M)=0.001061 *15*; α(N+..)=0.000316 *5*

$^{198}_{79}Au_{119}$-22

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
707.447 *24*	0.070 *6*	1542.793	3⁻	835.366	3⁻			
[x]708.54 *3*	0.040 *5*							
709.39 *3*	0.060 *8*	956.9534	1⁻,2⁻	247.5731	1⁻			
[x]709.724 *16*	0.250 *8*					M1	0.0340	α(K)=0.0281 *4*; α(L)=0.00452 *7*; α(M)=0.001044 *15*; α(N+..)=0.000311 *5*
710.708 *18*	0.070 *6*	801.7064	1⁻,2⁻	91.0057	0⁻			
[x]711.674 *21*	0.060 *5*							
712.70[a] *3*	0.050[a] *6*	1075.560	1⁻,2⁻,3⁻	362.8994	2⁻			
712.70[a] *3*	0.050[a] *6*	1338.171	3⁻	625.4303	3⁻			
712.70[a] *3*	0.050[a] *6*	1359.038	1⁻,2⁻,3⁻	646.411	0⁺			
713.567 *23*	0.060 *6*	1513.565	1⁻,2⁻	800.0391	2⁻			
[x]716.12 *3*	0.150 *29*							
717.32[a] *4*	0.100[a] *22*	1056.719	2⁻	339.2909	1⁻			
717.32[a] *4*	0.100[a] *22*	1475.622	2⁻	758.398	4⁺			
717.66 *5*	0.050 *10*	1390.227	2⁻	672.6549	1⁻,2⁻			
[x]718.518 *18*	0.060 *6*							
720.935 *11*	0.090 *4*	956.9534	1⁻,2⁻	236.0453	3⁻	M1	0.0326	α(K)=0.0270 *4*; α(L)=0.00434 *6*; α(M)=0.001002 *14*; α(N+..)=0.000299 *5*
[x]722.446 *23*	0.050 *4*							
[x]723.362 *9*	0.130 *4*							
[x]724.795 *10*	0.170 *9*							
725.747 *15*	0.090 *5*	1256.018	1⁻,2⁻	530.4782	1⁻			
726.15 *3*	0.060 *20*	987.5746	3⁻	261.4047	2⁻			
[x]727.269 *11*	0.120 *16*					M1	0.0319	α(K)=0.0264 *4*; α(L)=0.00424 *6*; α(M)=0.000979 *14*; α(N+..)=0.000292 *4*
728.995 *15*	0.150 *18*	1530.702	1⁻,2⁻	801.7064	1⁻,2⁻	M1	0.0317	α(K)=0.0262 *4*; α(L)=0.00421 *6*; α(M)=0.000973 *14*; α(N+..)=0.000290 *4*
[x]730.125 *21*	0.150 *12*					M1	0.0316	α(K)=0.0261 *4*; α(L)=0.00420 *6*; α(M)=0.000969 *14*; α(N+..)=0.000289 *4*
730.83[a] *3*	0.090[a] *28*	1363.350	1⁻,2⁻,3⁻	632.4818	1⁻,2⁻			
730.83[a] *3*	0.090[a] *28*	1434.584	1⁻,2⁻	703.7299	1⁻			
732.20[a] *3*	0.140[a] *6*	1404.893	2⁻,3⁻	672.6549	1⁻,2⁻	M1	0.0313	α(K)=0.0259 *4*; α(L)=0.00417 *6*; α(M)=0.000962 *14*; α(N+..)=0.000287 *4*
732.20[a] *3*	0.140[a] *6*	1434.584	1⁻,2⁻	702.4811	2⁻	M1	0.0313	α(K)=0.0259 *4*; α(L)=0.00417 *6*; α(M)=0.000962 *14*; α(N+..)=0.000287 *4*
[x]733.076 *12*	0.250 *13*							
734.132 *15*	0.090 *6*	789.2973	1⁻	55.1812	1⁻	M1	0.0311	α(K)=0.0257 *4*; α(L)=0.00414 *6*; α(M)=0.000956 *14*; α(N+..)=0.000285 *4*
[x]736.90 *5*	0.070 *7*							
[x]738.21 *5*	0.63 *18*							
[x]739.960 *3*	2.05 *10*					M1+E2	0.021 *10*	α(K)=0.017 *9*; α(L)=0.0029 *12*; α(M)=0.0007 *3*; α(N+..)=0.00020 *8*
[x]741.54 *3*	0.100 *8*							
742.91[a] *10*	0.060[a] *22*	1272.1512	3⁻	529.1687	3⁻			

$^{198}_{79}Au_{119}$-23

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#][@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
742.91[a] *10*	0.060[a] *22*	1286.747	2⁻	544.0095	4⁻			
742.91[a] *10*	0.060[a] *22*	1542.793	3⁻	800.0391	2⁻			
744.857[a] *24*	0.140[a] *8*	800.0391	2⁻	55.1812	1⁻			
744.857[a] *24*	0.140[a] *8*	1240.385	3⁻	495.5114	1⁻			
745.21 *3*	0.200 *14*	745.2188	1⁻,2⁻	0.0	2⁻			
746.061[a] *19*	0.180[a] *9*	1371.502	1⁻,2⁻	625.4303	3⁻			
746.061[a] *19*	0.180[a] *9*	1418.687	3⁺,4⁺	672.6549	1⁻,2⁻			
[x]748.03 *3*	0.050 *9*							
[x]748.86 *3*	0.070 *8*							
[x]749.602 *7*	0.420 *17*					M1	0.0295	α(K)=0.0244 *4*; α(L)=0.00392 *6*; α(M)=0.000905 *13*; α(N+..)=0.000270 *4*
[x]750.067 *22*	0.080 *7*							
[x]751.085 *14*	0.300 *12*					M1	0.0294	α(K)=0.0243 *4*; α(L)=0.00390 *6*; α(M)=0.000901 *13*; α(N+..)=0.000268 *4*
751.56[a] *4*	0.080[a] *15*	987.5746	3⁻	236.0453	3⁻			
751.56[a] *4*	0.080[a] *15*	999.213	1⁻,2⁻	247.5731	1⁻			
[x]754.99 *3*	0.090 *8*							
756.999[a] *18*	0.080[a] *6*	1018.430	1⁻,2⁻	261.4047	2⁻			
756.999[a] *18*	0.080[a] *6*	1301.045	2⁻	544.0095	4⁻			
[x]759.40 *3*	0.110 *15*							
759.70 *3*	0.110 *14*	1209.370	3⁻	449.5703	3⁻			
762.91 *6*	0.040 *6*	1306.859	2⁻	544.0095	4⁻			
763.998 *8*	0.340 *10*	956.9534	1⁻,2⁻	192.9440	1⁻	M1	0.0281	α(K)=0.0232 *4*; α(L)=0.00373 *6*; α(M)=0.000862 *12*; α(N+..)=0.000257 *4*
[x]764.96 *3*	0.160 *21*							
765.123 *16*	0.220 *11*	1554.429	1⁻,2⁻	789.2973	1⁻			
[x]765.322 *24*	0.150 *20*							
[x]766.09 *4*	0.040 *14*							
766.73 *4*	0.040 *14*	1297.133	1⁻,2⁻,3⁻	530.4782	1⁻			
[x]767.61 *3*	0.060 *13*							
767.92[a] *4*	0.130[a] *10*	1297.133	1⁻,2⁻,3⁻	529.1687	3⁻			
767.92[a] *4*	0.130[a] *10*	1554.429	1⁻,2⁻	786.5357	2⁻			
[x]768.62 *4*	0.030 *7*							
[x]768.95 *6*	0.030 *11*							
769.63[a] *3*	0.060[a] *12*	1108.873	1⁻,2⁻	339.2909	1⁻			
769.63[a] *3*	0.060[a] *12*	1318.628	1⁻,2⁻	548.9343	2⁻			
769.63[a] *3*	0.060[a] *12*	1402.086	1⁻,2⁻	632.4818	1⁻,2⁻			
769.63[a] *3*	0.060[a] *12*	1472.097	3⁻	702.4811	2⁻			
[x]770.21 *3*	0.130 *14*							
770.828 *7*	0.290 *17*	1032.254	3⁻	261.4047	2⁻	E2	0.00974	α(K)=0.00767 *11*; α(L)=0.001586 *23*; α(M)=0.000377 *6*; α(N+..)=0.0001110
[x]771.34 *3*	0.080 *10*							
[x]772.12 *4*	0.040 *8*							
772.56 *3*	0.050 *7*	987.5746	3⁻	214.9715	4⁻			
773.82 *6*	0.070 *18*	1560.407	3⁻	786.5357	2⁻			

$^{198}_{79}Au_{119}$-24

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
774.07 *6*	0.080 *12*	1399.342	2^-,3^-	625.4303	3^-			
[x]775.05 *4*	0.070 *13*							
[x]775.719 *15*	0.130 *10*							
776.627[a] *22*	0.160[a] *16*	1272.1512	3^-	495.5114	1^-			
776.627[a] *22*	0.160[a] *16*	1402.086	1^-,2^-	625.4303	3^-			
777.696 *14*	0.120 *14*	1306.859	2^-	529.1687	3^-	M1	0.0268	α(K)=0.0222 *4*; α(L)=0.00356 *5*; α(M)=0.000823 *12*; α(N+..)=0.000245 *4*
778.28 *7*	0.030 *15*	1542.793	3^-	764.483	4^-			
779.03[a] *4*	0.060[a] *8*	1038.2745	3^-	259.3404	1^-			
779.03[a] *4*	0.060[a] *8*	1232.8022	3^-	453.8249	2^-			
[x]780.96 *5*	0.090 *10*							
[x]782.01 *3*	0.080 *20*							
783.19 *3*	0.150 *24*	1232.8022	3^-	449.5703	3^-	M1	0.0264	α(K)=0.0218 *3*; α(L)=0.00350 *5*; α(M)=0.000808 *12*; α(N+..)=0.000241 *4*
[x]783.73 *3*	0.110 *39*							
784.36 *4*	0.040 *19*	1542.793	3^-	758.398	4^+			
785.37[a] *6*	0.050[a] *12*	1431.645	2^-,3^-	646.411	0^+			
785.37[a] *6*	0.050[a] *12*	1530.702	1^-,2^-	745.2188	1^-,2^-			
786.19[a] *6*	0.080[a] *12*	1418.687	3^+,4^+	632.4818	1^-,2^-			
786.19[a] *6*	0.080[a] *12*	1458.988	3^-	672.6549	1^-,2^-			
788.162 *18*	0.140 *18*	1318.628	1^-,2^-	530.4782	1^-	M1	0.0259	α(K)=0.0215 *3*; α(L)=0.00344 *5*; α(M)=0.000795 *12*; α(N+..)=0.000237 *4*
[x]788.813 *14*	0.200 *20*					M1	0.0259	α(K)=0.0214 *3*; α(L)=0.00343 *5*; α(M)=0.000793 *12*; α(N+..)=0.000236 *4*
[x]790.137 *24*	0.090 *9*							
793.38[a] *5*	0.030[a] *9*	1304.8246	3^-	511.5173	3^-			
793.38[a] *5*	0.030[a] *9*	1418.687	3^+,4^+	625.4303	3^-			
794.174 *10*	0.240 *12*	1338.171	3^-	544.0095	4^-	M1	0.0254	α(K)=0.0210 *3*; α(L)=0.00337 *5*; α(M)=0.000779 *11*; α(N+..)=0.000232 *4*
796.221 *9*	0.200 *14*	1032.254	3^-	236.0453	3^-			
[x]796.93 *4*	0.140 *45*							
797.102 *20*	0.080 *14*	1160.018	3^-	362.8994	2^-			
798.417[a] *16*	0.110[a] *12*	1293.902	1^-,2^-	495.5114	1^-	M1	0.0251	α(K)=0.0208 *3*; α(L)=0.00333 *5*; α(M)=0.000768 *11*; α(N+..)=0.000229 *4*
798.417[a] *16*	0.110[a] *12*	1423.795	3^-	625.4303	3^-	M1	0.0251	α(K)=0.0208 *3*; α(L)=0.00333 *5*; α(M)=0.000768 *11*; α(N+..)=0.000229 *4*
800.05 *4*	0.090 *18*	800.0391	2^-	0.0	2^-			
800.31 *5*	0.040 *11*	1371.502	1^-,2^-	571.2430	1^-			
801.713 *10*	0.260 *10*	801.7064	1^-,2^-	0.0	2^-	M1	0.0248	α(K)=0.0205 *3*; α(L)=0.00329 *5*; α(M)=0.000760 *11*; α(N+..)=0.000227 *4*
[x]802.42 *4*	0.060 *10*					(M1)	0.0248	α(K)=0.0205 *3*; α(L)=0.00329 *5*; α(M)=0.000758 *11*; α(N+..)=0.000226 *4*
[x]803.510 *13*	0.200 *10*					M1	0.0247	α(K)=0.0204 *3*; α(L)=0.00327 *5*; α(M)=0.000756 *11*; α(N+..)=0.000225 *4*
[x]804.188 *20*	0.230 *23*					M1	0.0246	α(K)=0.0204 *3*; α(L)=0.00327 *5*; α(M)=0.000754 *11*; α(N+..)=0.000225 *4*
806.13 *3*	0.090 *10*	1431.645	2^-,3^-	625.4303	3^-			
807.04 *5*	0.060 *10*	1318.628	1^-,2^-	511.5173	3^-			
810.119 *6*	0.350 *7*	1359.038	1^-,2^-,3^-	548.9343	2^-	M1	0.0242	α(K)=0.0200 *3*; α(L)=0.00321 *5*; α(M)=0.000740 *11*; α(N+..)=0.000221 *3*
811.710 *14*	0.110 *7*	1265.524	1^-,2^-,3^-	453.8249	2^-			
[x]812.576 *7*	0.200 *16*					(M1)	0.0240	α(K)=0.0199 *3*; α(L)=0.00318 *5*; α(M)=0.000734 *11*; α(N+..)=0.000219 *3*
813.57[a] *7*	0.030[a] *9*	868.7736	3^-	55.1812	1^-			
813.57[a] *7*	0.030[a] *9*	1061.285	3^-	247.5731	1^-			

$^{198}_{79}Au_{119}$-25

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]815.56 *5*	0.060 *14*							
815.964 *17*	0.140 *21*	1265.524	$1^-,2^-,3^-$	449.5703	3^-	M1	0.0237	α(K)=0.0196 *3*; α(L)=0.00315 *5*; α(M)=0.000726 *11*; α(N+..)=0.000216 *3*
816.63 *4*	0.060 *13*	1453.858	3^-	637.125	4^+			
[x]817.16 *3*	0.090 *13*							
[x]817.835 *19*	0.120 *12*							
818.29 *3*	0.100 *14*	1272.1512	3^-	453.8249	2^-			
[x]819.399 *11*	0.260 *18*					M1	0.0235	α(K)=0.0194 *3*; α(L)=0.00311 *5*; α(M)=0.000718 *10*; α(N+..)=0.000214 *3*
[x]820.49 *4*	0.110 *11*							
[x]821.63 *5*	0.86 *23*					E1	0.00320	α(K)=0.00267; α(L)=0.00040
822.539[a] *20*	0.140[a] *15*	1272.1512	3^-	449.5703	3^-			
822.539[a] *20*	0.140[a] *15*	1304.8246	3^-	482.3273	4^+			
[x]822.983 *18*	0.120 *11*							
824.12 *7*	0.040 *13*	1335.543	$1^-,2^-,3^-$	511.5173	3^-			
824.58 *4*	0.080 *14*	824.609	3^+	0.0	2^-			
825.472 *6*	0.420 *42*	1018.430	$1^-,2^-$	192.9440	1^-	M1	0.0230	α(K)=0.0191 *3*; α(L)=0.00305 *5*; α(M)=0.000705 *10*; α(N+..)=0.000210 *3*
[x]826.567 *15*	0.120 *11*					M1	0.0230	α(K)=0.0190 *3*; α(L)=0.00304 *5*; α(M)=0.000702 *10*; α(N+..)=0.000209 *3*
[x]827.31 *4*	0.060 *13*							
827.99 *9*	0.050 *34*	1209.370	3^-	381.2003	3^+			
[x]828.316 *18*	0.150 *15*							
828.85[a] *6*	0.070[a] *14*	1157.2384	3^-	328.4833	3^-			
828.85[a] *6*	0.070[a] *14*	1191.566	$1^+,2^+,3^+$	362.8994	2^-			
829.32 *8*	0.040 *14*	1475.622	2^-	646.411	0^+			
830.78 *3*	0.100 *13*	1402.086	$1^-,2^-$	571.2430	1^-	M1	0.0227	α(K)=0.0188 *3*; α(L)=0.00300 *5*; α(M)=0.000693 *10*; α(N+..)=0.000207 *3*
[x]831.31 *5*	0.080 *13*							
[x]831.815 *16*	0.170 *14*							
833.915 *13*	0.140 *13*	1536.380	$1^-,2^-,3^-$	702.4811	2^-			
[x]835.339 *14*	0.550 *22*							
[x]835.726 *5*	1.32 *15*							
836.405 *9*	0.640 *83*	891.616	$1^-,2^-$	55.1812	1^-	M1	0.0223	α(K)=0.0184 *3*; α(L)=0.00295 *5*; α(M)=0.000681 *10*; α(N+..)=0.000203 *3*
[x]837.46 *4*	0.120 *52*							
838.23 *4*	0.170 *27*	1409.399	3^-	571.2430	1^-			
839.53 *4*	0.99 *24*	1075.560	$1^-,2^-,3^-$	236.0453	3^-			
840.78 *8*	0.080 *25*	1513.565	$1^-,2^-$	672.6549	$1^-,2^-$			
[x]844.468 *10*	0.330 *66*					M1	0.0217	α(K)=0.0180 *3*; α(L)=0.00288 *4*; α(M)=0.000664 *10*; α(N+..)=0.000198 *3*
846.15 *5*	0.140 *27*	1390.227	2^-	544.0095	4^-			
849.56 *5*	0.110 *21*	1108.873	$1^-,2^-$	259.3404	1^-	M1	0.0214	α(K)=0.01772 *25*; α(L)=0.00283 *4*; α(M)=0.000654 *10*; α(N+..)=0.000195 *3*

$^{198}_{79}Au_{119}$-26

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#][@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]851.374 *10*	0.270 *16*					(E2)	0.00802	α(K)=0.00635; α(L)=0.00125
[x]853.222 *14*	0.340 *78*					M1	0.0212	α(K)=0.01753 *25*; α(L)=0.00280 *4*; α(M)=0.000647 *9*; α(N+..)=0.000193 *3*
854.60 *3*	0.200 *22*	1487.136	1⁻,2⁻	632.4818	1⁻,2⁻	M1	0.0211	α(K)=0.01745 *25*; α(L)=0.00279 *4*; α(M)=0.000644 *9*; α(N+..)=0.000192 *3*
856.58 *6*	0.110 *21*	1560.407	3⁻	703.7299	1⁻			
857.19[a] *7*	0.100[a] *22*	1104.847	0⁻,1⁻,2⁻	247.5731	1⁻			
857.19[a] *7*	0.100[a] *22*	1306.859	2⁻	449.5703	3⁻			
857.86 *6*	0.100 *21*	1560.407	3⁻	702.4811	2⁻			
863.01[a] *3*	0.200[a] *22*	1191.566	1⁺,2⁺,3⁺	328.4833	3⁻			
863.01[a] *3*	0.200[a] *22*	1202.268	2⁻	339.2909	1⁻			
[x]864.04 *10*	0.060 *19*							
864.77 *3*	0.100 *17*	1318.628	1⁻,2⁻	453.8249	2⁻			
[x]866.54 *8*	0.070 *20*							
[x]867.38 *6*	0.110 *25*							
[x]867.98 *5*	0.170 *26*					M1	0.0203	α(K)=0.01678 *24*; α(L)=0.00268 *4*; α(M)=0.000619 *9*; α(N+..)=0.000184 *3*
868.757 *9*	0.570 *57*	868.7736	3⁻	0.0	2⁻	M1	0.0202	α(K)=0.01674 *24*; α(L)=0.00268 *4*; α(M)=0.000618 *9*; α(N+..)=0.000184 *3*
[x]871.42 *3*	0.120 *12*					M1	0.0201	α(K)=0.01661 *24*; α(L)=0.00265 *4*; α(M)=0.000613 *9*; α(N+..)=0.000183 *3*
872.86[a] *4*	0.130[a] *17*	1108.873	1⁻,2⁻	236.0453	3⁻			
872.86[a] *4*	0.130[a] *17*	1402.086	1⁻,2⁻	529.1687	3⁻			
[x]876.87 *3*	0.210 *32*							
[x]877.07 *3*	0.250 *48*							
877.33 *3*	0.290 *61*	1124.883	2⁻	247.5731	1⁻	M1	0.0197	α(K)=0.01633 *23*; α(L)=0.00261 *4*; α(M)=0.000602 *9*; α(N+..)=0.000179 *3*
[x]879.47 *3*	0.190 *21*					M1	0.0196	α(K)=0.01622 *23*; α(L)=0.00259 *4*; α(M)=0.000598 *9*; α(N+..)=0.0001783 *25*
881.04[a] *6*	0.100[a] *20*	1209.370	3⁻	328.4833	3⁻			
881.04[a] *6*	0.100[a] *20*	1363.350	1⁻,2⁻,3⁻	482.3273	4⁺			
881.04[a] *6*	0.100[a] *20*	1513.565	1⁻,2⁻	632.4818	1⁻,2⁻			
[x]881.99 *7*	0.080 *19*							
885.647 *16*	0.230 *25*	1434.584	1⁻,2⁻	548.9343	2⁻	M1	0.0192	α(K)=0.01594 *23*; α(L)=0.00255 *4*; α(M)=0.000588 *9*; α(N+..)=0.0001751 *25*
[x]886.143 *14*	1.42 *7*					E1	0.00277	α(K)=0.00232; α(L)=0.00035
[x]887.34 *4*	0.130 *25*					M1	0.0192	α(K)=0.01586 *23*; α(L)=0.00253 *4*; α(M)=0.000585 *9*; α(N+..)=0.0001743 *25*
888.60[a] *11*	0.080[a] *29*	1124.883	2⁻	236.0453	3⁻			
888.60[a] *11*	0.080[a] *29*	1338.171	3⁻	449.5703	3⁻			
889.53 *9*	0.100 *22*	1418.687	3⁺,4⁺	529.1687	3⁻			
891.16 *4*	0.110 *44*	1297.133	1⁻,2⁻,3⁻	406.0081	2⁻			
891.600 *23*	0.130 *26*	891.616	1⁻,2⁻	0.0	2⁻			

$^{198}_{79}Au_{119}$-27

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#][@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]891.97 *6*	0.240 *77*							
[x]895.20 *4*	0.190 *23*							
[x]896.74 *6*	0.160 *30*							
[x]897.733 *21*	0.160 *61*							
898.53[a] *5*	0.200[a] *30*	1160.018	3⁻	261.4047	2⁻			
898.53[a] *5*	0.200[a] *30*	1380.885	3⁻	482.3273	4⁺			
902.500 *15*	0.520 *47*	1431.645	2⁻,3⁻	529.1687	3⁻			
[x]902.78 *3*	0.320 *42*							
[x]906.108 *17*	0.280 *22*					M1	0.0182	α(K)=0.01504 *21*; α(L)=0.00240 *4*; α(M)=0.000554 *8*; α(N+..)=0.0001651 *24*
909.61[a] *4*	0.120[a] *16*	1157.2384	3⁻	247.5731	1⁻			
909.61[a] *4*	0.120[a] *16*	1363.350	1⁻,2⁻,3⁻	453.8249	2⁻			
[x]910.57 *5*	0.100 *15*					M1	0.0179	α(K)=0.01485 *21*; α(L)=0.00237 *4*; α(M)=0.000547 *8*; α(N+..)=0.0001630 *23*
[x]913.588 *16*	0.300 *24*							
913.752 *16*	0.410 *57*	1363.350	1⁻,2⁻,3⁻	449.5703	3⁻	M1	0.01777	α(K)=0.01472 *21*; α(L)=0.00235 *4*; α(M)=0.000542 *8*; α(N+..)=0.0001616 *23*
[x]913.994 *21*	0.200 *32*							
915.91[a] *3*	0.090[a] *15*	1108.873	1⁻,2⁻	192.9440	1⁻			
915.91[a] *3*	0.090[a] *15*	1297.133	1⁻,2⁻,3⁻	381.2003	3⁺			
915.91[a] *3*	0.090[a] *15*	1487.136	1⁻,2⁻	571.2430	1⁻			
916.406 *11*	0.340 *17*	916.4440	1⁻,2⁻	0.0	2⁻	M1	0.01764	α(K)=0.01461 *21*; α(L)=0.00233 *4*; α(M)=0.000538 *8*; α(N+..)=0.0001604 *23*
917.39 *6*	0.050 *11*	1542.793	3⁻	625.4303	3⁻	M1	0.01759	α(K)=0.01457 *21*; α(L)=0.00233 *4*; α(M)=0.000537 *8*; α(N+..)=0.0001599 *23*
920.10 *6*	0.110 *25*	1431.645	2⁻,3⁻	511.5173	3⁻	M1	0.01746	α(K)=0.01446 *21*; α(L)=0.00231 *4*; α(M)=0.000532 *8*; α(N+..)=0.0001587 *23*
[x]920.89 *5*	0.150 *27*					M1	0.01742	α(K)=0.01443 *21*; α(L)=0.00230 *4*; α(M)=0.000531 *8*; α(N+..)=0.0001584 *23*
921.78 *6*	0.120 *25*	1554.429	1⁻,2⁻	632.4818	1⁻,2⁻	M1	0.01738	α(K)=0.01440 *21*; α(L)=0.00230 *4*; α(M)=0.000530 *8*; α(N+..)=0.0001580 *23*
[x]922.77 *4*	0.090 *17*							
923.86[a] *7*	0.110[a] *9*	1160.018	3⁻	236.0453	3⁻			
923.86[a] *7*	0.110[a] *9*	1286.747	2⁻	362.8994	2⁻			
926.60[a] *12*	0.040[a] *4*	1375.989	1⁻,2⁻	449.5703	3⁻			
926.60[a] *12*	0.040[a] *4*	1475.622	2⁻	548.9343	2⁻			
927.39[a] *7*	0.42[a] *16*	1018.430	1⁻,2⁻	91.0057	0⁻			
927.39[a] *7*	0.42[a] *16*	1256.018	1⁻,2⁻	328.4833	3⁻			
929.03 *4*	0.170 *20*	1554.429	1⁻,2⁻	625.4303	3⁻	M1	0.01704	α(K)=0.01411 *20*; α(L)=0.00225 *4*; α(M)=0.000519 *8*; α(N+..)=0.0001548 *22*
[x]930.46 *6*	0.100 *19*							
[x]931.370 *15*	0.320 *35*					M1	0.01693	α(K)=0.01402 *20*; α(L)=0.00224 *4*; α(M)=0.000516 *8*; α(N+..)=0.0001538 *22*

$^{198}_{79}Au_{119}$-28

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#][@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
933.89 *7*	0.64 *17*	1505.178	1−,2−	571.2430	1−			
934.33 *4*	0.070 *5*	1297.133	1−,2−,3−	362.8994	2−			
[x]935.18 *3*	0.110 *6*							
936.10 *4*	0.060 *10*	1431.645	2−,3−	495.5114	1−			
938.70 *3*	0.110 *6*	1306.859	2−	368.2549	1−	M1	0.01659	α(K)=0.01375 *20*; α(L)=0.00219 *3*; α(M)=0.000506 *7*; α(N+..)=0.0001508 *22*
[x]939.60 *4*	0.090 *7*					M1	0.01655	α(K)=0.01371 *20*; α(L)=0.00219 *3*; α(M)=0.000504 *7*; α(N+..)=0.0001504 *21*
[x]941.22 *3*	0.130 *14*					M1	0.01648	α(K)=0.01365 *20*; α(L)=0.00218 *3*; α(M)=0.000502 *7*; α(N+..)=0.0001497 *21*
[x]942.51 *3*	0.090 *15*					M1	0.01642	α(K)=0.01361 *19*; α(L)=0.00217 *3*; α(M)=0.000500 *7*; α(N+..)=0.0001492 *21*
[x]943.22 *3*	0.090 *13*							
[x]944.484 *9*	0.460 *18*					M1	0.01634	α(K)=0.01353 *19*; α(L)=0.00216 *3*; α(M)=0.000498 *7*; α(N+..)=0.0001484 *21*
946.45 *3*	0.130 *5*	1475.622	2−	529.1687	3−			
947.56 *6*	0.090 *24*	1458.988	3−	511.5173	3−			
947.94 *3*	0.430 *13*	1209.370	3−	261.4047	2−	M1	0.01619	α(K)=0.01341 *19*; α(L)=0.00214 *3*; α(M)=0.000493 *7*; α(N+..)=0.0001470 *21*
[x]949.59 *7*	0.060 *11*							
950.38 *5*	0.080 *9*	1318.628	1−,2−	368.2549	1−	M1	0.01608	α(K)=0.01332 *19*; α(L)=0.00212 *3*; α(M)=0.000490 *7*; α(N+..)=0.0001460 *21*
952.485 *19*	0.260 *18*	1402.086	1−,2−	449.5703	3−	(E2)	0.00640	α(K)=0.00512; α(L)=0.00096
[x]953.38 *4*	0.120 *40*							
[x]953.75 *5*	0.390 *20*					M1	0.01594	α(K)=0.01320 *19*; α(L)=0.00210 *3*; α(M)=0.000485 *7*; α(N+..)=0.0001447 *21*
[x]955.11 *3*	0.130 *10*							
[x]957.18 *3*	0.170 *10*					M1	0.01579	α(K)=0.01308 *19*; α(L)=0.00208 *3*; α(M)=0.000481 *7*; α(N+..)=0.0001434 *20*
960.47 *4*	0.100 *8*	1472.097	3−	511.5173	3−			
[x]962.774 *12*	0.290 *29*							
[x]963.958 *24*	0.180 *11*					E2	0.00625	α(K)=0.00501; α(L)=0.00093
965.14 *4*	0.110 *5*	1536.380	1−,2−,3−	571.2430	1−			
[x]971.20 *7*	0.160 *10*							
[x]973.207 *20*	0.420 *17*					M1	0.01514	α(K)=0.01254 *18*; α(L)=0.00200 *3*; α(M)=0.000461 *7*; α(N+..)=0.0001374 *20*
[x]975.186 *20*	0.200 *12*							
976.48[a] *7*	0.080[a] *18*	1191.566	1+,2+,3+	214.9715	4−			
976.48[a] *7*	0.080[a] *18*	1304.8246	3−	328.4833	3−			
976.48[a] *7*	0.080[a] *18*	1458.988	3−	482.3273	4+			
976.48[a] *7*	0.080[a] *18*	1472.097	3−	495.5114	1−			
978.85 *5*	0.190 *13*	1325.834	2−	346.9062	2−			
979.46 *7*	0.100 *19*	1318.628	1−,2−	339.2909	1−			

$^{198}_{79}Au_{119}$-29

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
983.00[a] 4	0.130[a] 10	983.0869	2+	0.0	2−			
983.00[a] 4	0.130[a] 10	1038.2745	3−	55.1812	1−			
983.00[a] 4	0.130[a] 10	1513.565	1−,2−	530.4782	1−			
984.92 8	0.140 29	1434.584	1−,2−	449.5703	3−			
[x]986.03 5	0.190 10							
[x]989.49 3	0.170 31					M1	0.01451	α(K)=0.01203 17; α(L)=0.00191 3; α(M)=0.000442 7; α(N+..)=0.0001316 19
990.60 6	0.090 29	1444.396	3−	453.8249	2−	(M1)	0.01447	α(K)=0.01199 17; α(L)=0.00191 3; α(M)=0.000440 7; α(N+..)=0.0001313 19
[x]993.191 14	0.560 34					M1+E2	0.010 5	α(K)=0.009 4; α(L)=0.0014 6
993.72 3	0.280 50	1505.178	1−,2−	511.5173	3−			
[x]995.77 6	0.130 7							
996.10[a] 6	0.120[a] 22	1359.038	1−,2−,3−	362.8994	2−			
996.10[a] 6	0.120[a] 22	1402.086	1−,2−	406.0081	2−			
999.74 3	0.310 16	1380.885	3−	381.2003	3+	E1+M2[‡]	0.018 17	α(K)=0.015 14; α(L)=0.0026 24; α(M)=0.0006 6; α(N+..)=0.00018 17 α(K)=0.008 4; α(L)=0.0014 6 M1+E2 (1996Ma70,1996Ma75).
1000.40 5	0.140 24	1363.350	1−,2−,3−	362.8994	2−			
[x]1003.66 6	0.110 8					M1	0.01400	α(K)=0.01160 17; α(L)=0.00185 3; α(M)=0.000426 6; α(N+..)=0.0001269 18
1005.36 5	0.180 22	1554.429	1−,2−	548.9343	2−			
[x]1005.71 5	0.180 9							
1006.32[a] 8	0.130[a] 12	1061.285	3−	55.1812	1−			
1006.32[a] 8	0.130[a] 12	1265.524	1−,2−,3−	259.3404	1−			
[x]1008.26 3	0.240 19					M1	0.01384	α(K)=0.01147 16; α(L)=0.00182 3; α(M)=0.000421 6; α(N+..)=0.0001254 18
[x]1009.507 21	0.290 32					M1+E2	0.010 4	α(K)=0.008 4; α(L)=0.0013 5; α(M)=0.00031 12; α(N+..)=9.E−5 4
[x]1011.11 6	0.200 8							
1012.79[a] 13	0.080[a] 7	1272.1512	3−	259.3404	1−			
1012.79[a] 13	0.080[a] 7	1375.989	1−,2−	362.8994	2−			
1012.79[a] 13	0.080[a] 7	1380.885	3−	368.2549	1−			
1012.79[a] 13	0.080[a] 7	1418.687	3+,4+	406.0081	2−			
1016.34[a] 16	0.050[a] 8	1209.370	3−	192.9440	1−			
1016.34[a] 16	0.050[a] 8	1363.350	1−,2−,3−	346.9062	2−			
1016.34[a] 16	0.050[a] 8	1560.407	3−	544.0095	4−			
1018.02 8	0.150 29	1399.342	2−,3−	381.2003	3+			
1018.36 3	0.250 15	1018.430	1−,2−	0.0	2−			
[x]1018.75 6	0.210 29							
[x]1024.25 3	0.210 8					M1	0.01330	α(K)=0.01102 16; α(L)=0.001752 25; α(M)=0.000404 6; α(N+..)=0.0001205 17
1025.48[a] 13	0.060[a] 5	1240.385	3−	214.9715	4−			
1025.48[a] 13	0.060[a] 5	1286.747	2−	261.4047	2−			

$^{198}_{79}Au_{119}$-30

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
1025.48[a] *13*	0.060[a] *5*	1431.645	2⁻,3⁻	406.0081	2⁻			
1025.48[a] *13*	0.060[a] *5*	1554.429	1⁻,2⁻	529.1687	3⁻			
1027.12 *9*	0.090 *5*	1390.227	2⁻	362.8994	2⁻			
1028.19 *5*	0.140 *34*	1409.399	3⁻	381.2003	3⁺			
1028.613 *14*	0.620 *43*	1434.584	1⁻,2⁻	406.0081	2⁻	M1	0.01315	α(K)=0.01090 *16*; α(L)=0.001733 *25*; α(M)=0.000400 *6*; α(N+..)=0.0001192 *17*
[x]1030.83 *3*	0.170 *5*					M1	0.01308	α(K)=0.01084 *16*; α(L)=0.001724 *25*; α(M)=0.000398 *6*; α(N+..)=0.0001185 *17*
1033.08[a] *10*	0.070[a] *5*	1396.142	3⁻	362.8994	2⁻	M1	0.01301	α(K)=0.01078 *15*; α(L)=0.001714 *24*; α(M)=0.000395 *6*; α(N+..)=0.0001179 *17*
1033.08[a] *10*	0.070[a] *5*	1487.136	1⁻,2⁻	453.8249	2⁻	M1	0.01301	α(K)=0.01078 *15*; α(L)=0.001714 *24*; α(M)=0.000395 *6*; α(N+..)=0.0001179 *17*
1034.48 *8*	0.080 *5*	1293.902	1⁻,2⁻	259.3404	1⁻			
[x]1036.94 *8*	0.070 *12*							
[x]1037.95 *3*	0.230 *9*					M1	0.01286	α(K)=0.01066 *15*; α(L)=0.001694 *24*; α(M)=0.000391 *6*; α(N+..)=0.0001164 *17*
1040.77[a] *11*	0.120[a] *6*	1256.018	1⁻,2⁻	214.9715	4⁻			
1040.77[a] *11*	0.120[a] *6*	1536.380	1⁻,2⁻,3⁻	495.5114	1⁻			
[x]1042.25 *4*	0.260 *8*					(E2)	0.00536	α(K)=0.00432; α(L)=0.00078
[x]1045.01 *3*	0.280 *50*					M1	0.01264	α(K)=0.01047 *15*; α(L)=0.001665 *24*; α(M)=0.000384 *6*; α(N+..)=0.0001144 *16*
1046.16 *8*	0.150 *9*	1293.902	1⁻,2⁻	247.5731	1⁻			
1047.09[a] *7*	0.210[a] *6*	1047.124	1⁻,2⁻	0.0	2⁻			
1047.09[a] *7*	0.210[a] *6*	1542.793	3⁻	495.5114	1⁻			
1047.72 *7*	0.130 *8*	1453.858	3⁻	406.0081	2⁻			
1049.23 *5*	0.140 *14*	1396.142	3⁻	346.9062	2⁻	M1	0.01251	α(K)=0.01037 *15*; α(L)=0.001648 *23*; α(M)=0.000380 *6*; α(N+..)=0.0001133 *16*
1050.728 *16*	0.380 *42*	1286.747	2⁻	236.0453	3⁻	M1	0.01246	α(K)=0.01033 *15*; α(L)=0.001642 *23*; α(M)=0.000379 *6*; α(N+..)=0.0001128 *16*
[x]1053.53 *3*	0.420 *21*					E2	0.00525	α(K)=0.00423; α(L)=0.00076
1053.93 *5*	0.210 *36*	1536.380	1⁻,2⁻,3⁻	482.3273	4⁺			
[x]1059.59 *5*	0.120 *6*							
1060.937 *21*	0.260 *16*	1423.795	3⁻	362.8994	2⁻	M1	0.01216	α(K)=0.01008 *15*; α(L)=0.001601 *23*; α(M)=0.000369 *6*; α(N+..)=0.0001101 *16*
1062.55 *8*	0.110 *6*	1409.399	3⁻	346.9062	2⁻			
1064.45 *7*	0.130 *7*	1325.834	2⁻	261.4047	2⁻			
1064.78[a] *9*	0.200[a] *40*	1301.045	2⁻	236.0453	3⁻			
1064.78[a] *9*	0.200[a] *40*	1560.407	3⁻	495.5114	1⁻			
[x]1065.867 *24*	0.400 *16*					M1	0.01202	α(K)=0.00996 *14*; α(L)=0.001583 *23*; α(M)=0.000365 *6*; α(N+..)=0.0001088 *16*
1068.52[a] *11*	0.070[a] *5*	1304.8246	3⁻	236.0453	3⁻			
1068.52[a] *11*	0.070[a] *5*	1431.645	2⁻,3⁻	362.8994	2⁻			
[x]1074.93 *4*	0.200 *18*							

$^{198}_{79}Au_{119}$-31

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]1075.71 *5*	0.160 *45*					M1	0.01174	α(K)=0.00974 *14*; α(L)=0.001546 *22*; α(M)=0.000356 *5*; α(N+..)=0.0001063 *15*
1076.38[a] *10*	0.090[a] *14*	1335.543	1⁻,2⁻,3⁻	259.3404	1⁻			
1076.38[a] *10*	0.090[a] *14*	1404.893	2⁻,3⁻	328.4833	3⁻			
1076.38[a] *10*	0.090[a] *14*	1444.396	3⁻	368.2549	1⁻			
1076.81[a] *5*	0.150[a] *20*	1338.171	3⁻	261.4047	2⁻			
1076.81[a] *5*	0.150[a] *20*	1423.795	3⁻	346.9062	2⁻			
1076.81[a] *5*	0.150[a] *20*	1530.702	1⁻,2⁻	453.8249	2⁻			
[x]1078.40 *13*	0.100 *28*							
1079.191 *17*	0.320 *26*	1272.1512	3⁻	192.9440	1⁻	(E2)	0.00495 *7*	α(K)=0.00402 *6*; α(L)=0.000718 *10*; α(M)=0.0001679 *24*; α(N+..)=4.97×10⁻⁵ *7* α(K)=0.007 *3*; α(L)=0.0012 *5* Mult.: (M1,E2) (1996Ma70,1996Ma75).
1081.60 *5*	0.130 *30*	1444.396	3⁻	362.8994	2⁻			
[x]1082.037 *23*	0.220 *40*							
[x]1083.58 *7*	0.080 *26*							
1085.49 *5*	0.260 *10*	1453.858	3⁻	368.2549	1⁻			
[x]1088.54 *5*	0.090 *18*							
1090.05 *8*	0.120 *22*	1496.201	3⁻	406.0081	2⁻	M1	0.01136	α(K)=0.00941 *14*; α(L)=0.001494 *21*; α(M)=0.000345 *5*; α(N+..)=0.0001027 *15*
[x]1091.41 *4*	0.180 *18*							
[x]1092.57 *4*	0.160 *13*							
[x]1099.592 *24*	0.400 *12*					M1	0.01111	α(K)=0.00921 *13*; α(L)=0.001461 *21*; α(M)=0.000337 *5*; α(N+..)=0.0001004 *14*
1101.86 *4*	0.230 *9*	1363.350	1⁻,2⁻,3⁻	261.4047	2⁻	M1	0.01105	α(K)=0.00916 *13*; α(L)=0.001454 *21*; α(M)=0.000335 *5*; α(N+..)=0.0001002 *14*
1107.01 *4*	0.260 *39*	1453.858	3⁻	346.9062	2⁻	M1	0.01092	α(K)=0.00906 *13*; α(L)=0.001437 *21*; α(M)=0.000331 *5*; α(N+..)=9.91×10⁻⁵ *14*
1107.67 *5*	0.700 *98*	1513.565	1⁻,2⁻	406.0081	2⁻	E2	0.00476	α(K)=0.00385; α(L)=0.00068
1109.29 *5*	0.66 *11*	1472.097	3⁻	362.8994	2⁻	M1+E2	0.008 *3*	α(K)=0.006 *3*; α(L)=0.0011 *4*; α(M)=0.00024 *9*; α(N+..)=7.E−5 *3*
1111.64 *7*	0.500 *45*	1359.038	1⁻,2⁻,3⁻	247.5731	1⁻			
1114.51 *5*	0.240 *12*	1375.989	1⁻,2⁻	261.4047	2⁻			
[x]1117.93 *3*	0.290 *20*							
1120.54 *10*	0.100 *10*	1335.543	1⁻,2⁻,3⁻	214.9715	4⁻			
[x]1122.40 *9*	0.080 *19*					M1	0.01055	α(K)=0.00875 *13*; α(L)=0.001387 *20*; α(M)=0.000320 *5*; α(N+..)=9.60×10⁻⁵ *14*
[x]1123.70 *5*	0.190 *8*					M1	0.01052	α(K)=0.00872 *13*; α(L)=0.001383 *20*; α(M)=0.000319 *5*; α(N+..)=9.58×10⁻⁵ *14*
[x]1126.11 *4*	0.200 *16*					M1	0.01046	α(K)=0.00867 *13*; α(L)=0.001375 *20*; α(M)=0.000317 *5*; α(N+..)=9.53×10⁻⁵ *14*
1132.93 *3*	0.340 *44*	1325.834	2⁻	192.9440	1⁻	M1	0.01030	α(K)=0.00854 *12*; α(L)=0.001354 *19*; α(M)=0.000312 *5*; α(N+..)=9.41×10⁻⁵ *14*

$^{198}_{79}Au_{119}$-32

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]1139.516 *15*	0.640 *96*					M1	0.01015	α(K)=0.00842 *12*; α(L)=0.001334 *19*; α(M)=0.000308 *5*; α(N+..)=9.30×10^{-5} *13*
[x]1141.83 *5*	0.150 *11*					M1	0.01010	α(K)=0.00837 *12*; α(L)=0.001327 *19*; α(M)=0.000306 *5*; α(N+..)=9.26×10^{-5} *13*
1148.65 *5*	0.360 *14*	1396.142	3$^-$	247.5731	1$^-$	E2[‡]	0.00439 *7*	α(K)=0.00358 *5*; α(L)=0.000626 *9*; α(M)=0.0001461 *21*; α(N+..)=4.43×10^{-5} *7* α(K)=0.0086; α(L)=0.00137 M1 (1996Ma70,1996Ma75).
1150.55 *8*	0.340 *24*	1513.565	1$^-$,2$^-$	362.8994	2$^-$	M1	0.00991 *14*	α(K)=0.00822 *12*; α(L)=0.001302 *19*; α(M)=0.000300 *5*; α(N+..)=9.13×10^{-5} *13*
1157.25 *6*	0.180 *49*	1157.2384	3$^-$	0.0	2$^-$	M1	0.00977	α(K)=0.00810 *12*; α(L)=0.001283 *18*; α(M)=0.000296 *5*; α(N+..)=9.04×10^{-5} *13*
[x]1161.38 *6*	0.23 *30*					M1	0.00968 *14*	α(K)=0.00802 *12*; α(L)=0.001271 *18*; α(M)=0.000293 *5*; α(N+..)=8.99×10^{-5} *13*
[x]1163.80 *13*	0.140 *8*							
[x]1164.10 *11*	0.240 *50*							
[x]1167.32 *5*	0.280 *64*					M1	0.00955 *14*	α(K)=0.00792 *11*; α(L)=0.001255 *18*; α(M)=0.000289 *4*; α(N+..)=8.93×10^{-5} *13*
[x]1170.95 *5*	0.56 *12*					M1+E2	0.007 *3*	α(K)=0.0058 *24*; α(L)=0.0010 *4*
1179.90 *7*	0.160 *62*	1542.793	3$^-$	362.8994	2$^-$	M1+E2	0.007 *3*	α(K)=0.0057 *24*; α(L)=0.0009 *4*
[x]1181.60 *5*	0.250 *35*					M1	0.00927 *13*	α(K)=0.00768 *11*; α(L)=0.001216 *17*; α(M)=0.000280 *4*; α(N+..)=8.80×10^{-5} *13*
[x]1183.42 *8*	0.450 *77*					(M1,E2)	0.007 *3*	α(K)=0.0057 *23*; α(L)=0.0009 *4*
1183.79 *4*	0.430 *30*	1530.702	1$^-$,2$^-$	346.9062	2$^-$	(M1,E2)	0.007 *3*	α(K)=0.0057 *23*; α(L)=0.0009 *4*
[x]1184.70 *8*	0.340 *65*					E2		α(K)=0.00339; α(L)=0.00059
[x]1185.89 *10*	0.180 *14*							
1186.31 *10*	0.220 *55*	1554.429	1$^-$,2$^-$	368.2549	1$^-$			
1187.32[a] *12*	0.210[a] *11*	1402.086	1$^-$,2$^-$	214.9715	4$^-$			
1187.32[a] *12*	0.210[a] *11*	1434.584	1$^-$,2$^-$	247.5731	1$^-$			
1187.73[a] *9*	0.200[a] *44*	1380.885	3$^-$	192.9440	1$^-$			
1187.73[a] *9*	0.200[a] *44*	1423.795	3$^-$	236.0453	3$^-$			
1189.3 *3*	0.110 *9*	1536.380	1$^-$,2$^-$,3$^-$	346.9062	2$^-$			
1189.77 *7*	0.140 *31*	1404.893	2$^-$,3$^-$	214.9715	4$^-$			
1195.50 *7*	0.200 *14*	1431.645	2$^-$,3$^-$	236.0453	3$^-$		0.00394	α(K)=0.00321 *5*; α(L)=0.000553 *8*; α(M)=0.0001288 *18*; α(N+..)=4.38×10^{-5} *7*
[x]1196.60 *6*	0.270 *16*					M1		α(K)=0.00777; α(L)=0.00123
1200.75 *12*	0.140 *11*	1256.018	1$^-$,2$^-$	55.1812	1$^-$	M1	0.0093	α(K)=0.00771; α(L)=0.00122
[x]1203.81 *4*	0.940 *38*					M1		α(K)=0.00766; α(L)=0.00121
[x]1205.68 *4*	0.860 *69*							
1210.72 *7*	0.270 *24*	1472.097	3$^-$	261.4047	2$^-$			
1216.62[a] *8*	0.290[a] *17*	1409.399	3$^-$	192.9440	1$^-$	E2	0.00397	α(K)=0.00323; α(L)=0.00056
1216.62[a] *8*	0.290[a] *17*	1431.645	2$^-$,3$^-$	214.9715	4$^-$	E2	0.00397	α(K)=0.00323; α(L)=0.00056

$^{198}_{79}Au_{119}$-33

γ(^{198}Au) (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]1217.39 *9*	0.240 *34*							
[x]1219.05 *5*	0.330 *63*					E2		α(K)=0.00322; α(L)=0.00055
[x]1225.51 *4*	1.08 *14*					(E1,E2)		α(K)=0.0022 *10*; α(L)=0.00037 *18*
1226.01 *3*	0.370 *15*	1554.429	1⁻,2⁻	328.4833	3⁻	M1+E2	0.0064 *25*	α(K)=0.0052 *21*; α(L)=0.0009 *3*
[x]1230.35 *6*	0.150 *18*							
[x]1232.49 *6*	0.160 *32*					M1	0.0087	α=0.0087; α(K)=0.00722; α(L)=0.00114
[x]1234.36 *6*	0.190 *11*					M1	0.0087	α=0.0087; α(K)=0.00719; α(L)=0.00114
1239.590[a] *19*	0.660[a] *73*	1475.622	2⁻	236.0453	3⁻	E2	0.00383	α(K)=0.00312; α(L)=0.00054
1239.590[a] *19*	0.660[a] *73*	1487.136	1⁻,2⁻	247.5731	1⁻	E2	0.00383	α(K)=0.00312; α(L)=0.00054
1252.12 *10*	0.170 *22*	1513.565	1⁻,2⁻	261.4047	2⁻			
[x]1253.24 *8*	0.220 *22*							
[x]1254.06 *6*	0.66 *12*					E1	0.00148	α=0.00148; α(K)=0.00124; α(L)=0.00018
[x]1256.36 *10*	0.53 *13*					(E1,E2)	0.0026 *12*	α=0.0026 *12*; α(K)=0.0021 *9*; α(L)=0.00035 *17*
[x]1258.83 *6*	0.230 *37*					M1	0.00829	α=0.00829; α(K)=0.00685; α(L)=0.00108
[x]1262.946 *16*	1.50 *15*							
1272.16[a] *11*	0.130[a] *14*	1272.1512	3⁻	0.0	2⁻			
1272.16[a] *11*	0.130[a] *14*	1363.350	1⁻,2⁻,3⁻	91.0057	0⁻			
1272.16[a] *11*	0.130[a] *14*	1487.136	1⁻,2⁻	214.9715	4⁻			
[x]1273.48 *7*	0.88 *7*							
1275.05 *6*	0.350 *35*	1536.380	1⁻,2⁻,3⁻	261.4047	2⁻	M1	0.00803	α(K)=0.00663; α(L)=0.00105
[x]1276.75 *4*	0.660 *86*					M1	0.00800	α=0.00800; α(K)=0.00661; α(L)=0.00105
1281.55 *9*	0.66 *14*	1542.793	3⁻	261.4047	2⁻	(E2)	0.0025 *11*	α(K)=0.0021 *9*; α(L)=0.00034 *17* Mult.: (E1,E2) (1996Ma70,1996Ma75).
1283.47 *13*	0.47 *14*	1542.793	3⁻	259.3404	1⁻			
[x]1285.39 *8*	0.260 *57*					M1	0.00787	α=0.00787; α(K)=0.00650; α(L)=0.00103
[x]1291.15 *13*	0.50 *13*					E2	0.00354	α=0.00354; α(K)=0.00289; α(L)=0.00049
[x]1291.69 *5*	0.270 *30*							
1297.137 *17*	0.58 *12*	1297.133	1⁻,2⁻,3⁻	0.0	2⁻	M1	0.00769	α(K)=0.00635; α(L)=0.00101
1300.92 *7*	0.200 *82*	1301.045	2⁻	0.0	2⁻			
1304.76 *6*	0.340 *54*	1304.8246	3⁻	0.0	2⁻			
1308.45 *17*	0.160 *27*	1363.350	1⁻,2⁻,3⁻	55.1812	1⁻	M1	0.00719	α(K)=0.00622; α(L)=0.00098
1316.52 *9*	0.290 *29*	1371.502	1⁻,2⁻	55.1812	1⁻			
[x]1318.51 *4*	1.180 *24*					E2	0.00340	α=0.00340; α(K)=0.00278; α(L)=0.00047
1324.41 *6*	0.260 *29*	1560.407	3⁻	236.0453	3⁻	M1	0.00730	α(K)=0.00603; α(L)=0.00095
[x]1326.82 *7*	0.240 *26*					M1	0.00727	α=0.00727; α(K)=0.00600; α(L)=0.00095
1335.51 *5*	0.220 *44*	1335.543	1⁻,2⁻,3⁻	0.0	2⁻	M1	0.00715	α(K)=0.00591; α(L)=0.00093
1338.09 *8*	0.160 *22*	1338.171	3⁻	0.0	2⁻	M1	0.00711	α(K)=0.00588; α(L)=0.00093
1344.26 *7*	0.220 *31*	1399.342	2⁻,3⁻	55.1812	1⁻	M1	0.00703	α(K)=0.00581; α(L)=0.00092
[x]1352.13 *12*	0.160 *27*							
[x]1354.286 *24*	0.840 *59*					M1	0.00690	α=0.00690; α(K)=0.00570; α(L)=0.00090
[x]1355.71 *10*	0.250 *30*					M1	0.00689	α=0.00689; α(K)=0.00569; α(L)=0.00090
1361.41 *5*	0.360 *29*	1554.429	1⁻,2⁻	192.9440	1⁻	M1	0.00681	α(K)=0.00563; α(L)=0.00089
1363.39 *6*	0.350 *25*	1363.350	1⁻,2⁻,3⁻	0.0	2⁻	M1	0.0065	α(K)=0.00561; α(L)=0.00089

$^{198}_{79}Au_{119}$-34

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]1365.18 *12*	0.270 *32*							
[x]1365.51 *10*	0.240 *19*							
[x]1373.59 *9*	0.230 *28*							
[x]1377.70 *10*	0.190 *21*							
1379.35 *8*	0.190 *17*	1434.584	1^-,2^-	55.1812	1^-	M1	0.00659	α(K)=0.00545; α(L)=0.00086
[x]1383.74 *17*	0.110 *20*							
[x]1388.44 *9*	0.250 *23*							
[x]1389.04 *4*	0.25 *13*					M1	0.00648	α=0.00648; α(K)=0.00536; α(L)=0.00085
[x]1394.01 *4*	0.520 *31*					(M1)	0.00642	α=0.00642; α(K)=0.00531; α(L)=0.00084
[x]1395.58 *9*	0.280 *28*							
1396.09[a] *15*	0.190[a] *17*	1396.142	3^-	0.0	2^-	M1	0.00640	α(K)=0.00529; α(L)=0.00084
1396.09[a] *15*	0.190[a] *17*	1487.136	1^-,2^-	91.0057	0^-	M1	0.00640	α(K)=0.00529; α(L)=0.00084
[x]1397.73 *16*	0.130 *7*					M1	0.00638	α=0.00638; α(K)=0.00527; α(L)=0.00083
[x]1407.903 *24*	1.09 *14*							
[x]1411.54 *20*	0.090 *23*							
[x]1411.90 *12*	0.130 *36*							
[x]1413.18 *17*	0.110 *15*							
[x]1415.73 *21*	0.070 *26*							
1422.65 *15*	0.100 *20*	1513.565	1^-,2^-	91.0057	0^-			
[x]1430.99 *9*	0.280 *22*					M1	0.00602	α=0.00602; α(K)=0.00497; α(L)=0.00079
1431.42 *13*	0.200 *42*	1431.645	2^-,3^-	0.0	2^-			
1432.04 *14*	0.310 *31*	1487.136	1^-,2^-	55.1812	1^-			
[x]1434.04 *11*	0.130 *14*							
[x]1437.53 *14*	0.120 *23*							
[x]1441.60 *10*	0.180 *22*					M1	0.00591	α=0.00591; α(K)=0.00488; α(L)=0.00077
[x]1443.98 *13*	0.150 *23*							
1445.50 *10*	0.190 *32*	1536.380	1^-,2^-,3^-	91.0057	0^-			
[x]1450.90 *10*	0.180 *22*							
[x]1452.33 *10*	0.300 *57*							
[x]1454.22 *6*	0.250 *25*					M1	0.00578	α=0.00578; α(K)=0.00478; α(L)=0.00075
[x]1460.22 *7*	0.280 *70*							
[x]1460.84 *17*	0.150 *17*							
[x]1461.65 *22*	0.090 *32*							
[x]1462.12 *18*	0.140 *24*							
[x]1466.58 *6*	0.40 *11*							
[x]1467.96 *10*	0.480 *38*							
[x]1470.00 *12*	0.160 *14*							
[x]1474.580 *19*	0.89 *23*					M1	0.00558	α=0.00558; α(K)=0.00462; α(L)=0.00073
[x]1477.95 *9*	0.230 *55*							
1487.31[a] *12*	0.270[a] *32*	1487.136	1^-,2^-	0.0	2^-	M1	0.00547	α(K)=0.00452; α(L)=0.00071
1487.31[a] *12*	0.270[a] *32*	1542.793	3^-	55.1812	1^-	E2[‡]	0.00547	α(K)=0.00452; α(L)=0.00071 M1 (1996Ma70,1996Ma75).
[x]1488.77 *8*	0.520 *36*							

$^{198}_{79}Au_{119}$-35

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]	α[&]	Comments
[x]1490.88 *19*	0.130 *22*							
[x]1500.58 *5*	0.26 *16*							
[x]1504.44 *14*	0.170 *22*							
1505.50[a] *23*	0.110[a] *15*	1505.178	1$^-$,2$^-$	0.0	2$^-$			
1505.50[a] *23*	0.110[a] *15*	1560.407	3$^-$	55.1812	1$^-$			
[x]1513.31 *5*	0.910 *27*					M1+E2	0.0032 *11*	α=0.0032 *11*; α(K)=0.0032 *11*
[x]1514.8 *4*	0.430 *52*							
[x]1516.19 *10*	0.350 *18*							
[x]1516.68 *18*	0.360 *40*							
[x]1519.42 *4*	0.64 *20*					M1	0.00429	α=0.00429; α(K)=0.00429
[x]1524.40 *14*	0.100 *50*							
[x]1526.5 *3*	0.120 *29*							
1530.60 *8*	0.410 *33*	1530.702	1$^-$,2$^-$	0.0	2$^-$			
[x]1533.14 *4*	0.64 *19*					(M1,E2)	0.0031 *11*	α=0.0031 *11*; α(K)=0.0031 *11*
[x]1537.72 *15*	0.320 *42*							
[x]1539.96 *16*	0.270 *41*							
[x]1547.10 *11*	0.360 *36*							
[x]1550.49 *8*	0.490 *34*							
1554.51 *7*	0.34 *12*	1554.429	1$^-$,2$^-$	0.0	2$^-$			
[x]1566.79 *16*	0.170 *17*							
[x]1567.13 *6*	0.590 *24*					M1	0.00397	α=0.00397; α(K)=0.00397
[x]1574.89 *7*	0.360 *22*							
[x]1578.47 *11*	0.270 *24*							
[x]1597.91 *20*	0.220 *26*							
[x]1604.01 *7*	0.670 *47*							
[x]1611.43 *15*	0.440 *40*							
[x]1615.96 *22*	0.130 *30*							
[x]1620.35 *15*	0.210 *40*							
[x]1630.61 *20*	0.180 *40*							
[x]1633.36 *19*	0.70 *17*							
[x]1634.06 *7*	0.500 *80*							
[x]1638.5 *3*	0.190 *40*							
[x]1642.7 *3*	0.280 *39*							
[x]1645.12 *10*	0.810 *49*							
[x]1651.1 *4*	0.130 *42*							
[x]1656.72 *7*	0.900 *63*							
[x]1660.15 *16*	0.380 *61*							
[x]1669.2 *3*	0.73 *25*							
[x]1693.314 *23*	7.1 *12*							
[x]1706.0 *3*	0.58 *20*							
[x]4897.4 *14*	0.360 *94*							
[x]4905.5 *10*	0.420 *97*							
[x]4931.6 *10*	0.230 *97*							
[x]4940.3 *16*	0.080 *54*							

$^{198}_{79}Au_{119}$-36

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04 (continued)

$\gamma(^{198}Au)$ (continued)

E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	E_γ	I_γ[#@]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[†]
4958.2 *10*	0.85 *10*	(6512.34)	1^+	1554.429	1^-,2^-	5474.4 *24*	0.28 *7*	(6512.34)	1^+	1032.254	3^-	
4973.1 *15*	0.080 *45*	(6512.34)	1^+	1536.380	1^-,2^-,3^-	5493.7 *8*	0.57 *12*	(6512.34)	1^+	1018.430	1^-,2^-	
4980.5 *15*	0.120 *43*	(6512.34)	1^+	1530.702	1^-,2^-	5524.4 *10*	1.08 *12*	(6512.34)	1^+	987.5746	3^-	
4999.1 *10*	0.420 *11*	(6512.34)	1^+	1513.565	1^-,2^-	5539.9 *10*	0.230 *69*	(6512.34)	1^+	971.8210	3^-	
5007.5 *15*	0.080 *54*	(6512.34)	1^+	1505.178	1^-,2^-	[x]5594.75 *7*	0.610 *37*					
5024.6 *10*	0.130 *78*	(6512.34)	1^+	1487.136	1^-,2^-	5620.6 *9*	0.46 *11*	(6512.34)	1^+	891.616	1^-,2^-	
5035.2 *9*	0.250 *95*	(6512.34)	1^+	1475.622	2^-	5643.4 *9*	0.080 *45*	(6512.34)	1^+	868.7736	3^-	
5042.5 *12*	0.250 *95*	(6512.34)	1^+	1472.097	3^-	5677.3 *9*	0.070 *44*	(6512.34)	1^+	835.366	3^-	
5053.7 *14*	0.080 *26*	(6512.34)	1^+	1458.988	3^-	5710.70 *6*	1.710 *86*	(6512.34)	1^+	801.7064	1^-,2^-	
5080.9 *10*	0.330 *53*	(6512.34)	1^+	1431.645	2^-,3^-	5724.3 *8*	0.74 *20*	(6512.34)	1^+	789.2973	1^-	
5086.3 *9*	0.670 *53*	(6512.34)	1^+	1423.795	3^-	5766.5 *12*	0.120 *43*	(6512.34)	1^+	745.2188	1^-,2^-	
5103.0 *9*	1.180 *83*	(6512.34)	1^+	1409.399	3^-	5783.7 *11*	0.10 *5*	(6512.34)	1^+	728.672	0^-	
5109.5 *14*	0.210 *44*	(6512.34)	1^+	1402.086	1^-,2^-	5808.2 *9*	0.33 *11*	(6512.34)	1^+	703.7299	1^-	
5118.7 *16*	0.250 *43*	(6512.34)	1^+	1390.227	2^-	5839.7 *8*	0.21 *10*	(6512.34)	1^+	672.6549	1^-,2^-	
5141.1 *10*	0.470 *80*	(6512.34)	1^+	1371.502	1^-,2^-	5880.0 *8*	0.40 *10*	(6512.34)	1^+	632.4818	1^-,2^-	
5149.9 *10*	0.620 *74*	(6512.34)	1^+	1363.350	1^-,2^-,3^-	5941.32 *7*	0.620 *37*	(6512.34)	1^+	571.2430	1^-	
5153.5 *11*	0.78 *44*	(6512.34)	1^+	1359.038	1^-,2^-,3^-	5983.19 *6*	1.380 *69*	(6512.34)	1^+	529.1687	3^-	
5174.7 *8*	0.30 *10*	(6512.34)	1^+	1338.171	3^-	6106.43 *14*	0.630 *44*	(6512.34)	1^+	406.0081	2^-	
5206.4 *10*	0.210 *80*	(6512.34)	1^+	1306.859	2^-	6145.3 *10*	0.39 *22*	(6512.34)	1^+	368.2549	1^-	
5217.8 *10*	0.210 *80*	(6512.34)	1^+	1293.902	1^-,2^-	6149.55 *7*	1.00 *5*	(6512.34)	1^+	362.8994	2^-	
[x]5223.1 *14*	0.180 *52*					6165.5 *9*	0.230 *69*	(6512.34)	1^+	346.9062	2^-	
5226.1 *8*	0.570 *97*	(6512.34)	1^+	1286.747	2^-	6251.05 *17*	1.94 *31*	(6512.34)	1^+	261.4047	2^-	
5244.4 *14*	0.69 *26*	(6512.34)	1^+	1265.524	1^-,2^-,3^-	6253.11 *13*	3.28 *33*	(6512.34)	1^+	259.3404	1^-	
5272.1 *14*	0.52 *26*	(6512.34)	1^+	1240.385	3^-	6264.9 *10*	0.61 *12*	(6512.34)	1^+	247.5731	1^-	
5279.5 *8*	0.49 *12*	(6512.34)	1^+	1232.8022	3^-	6276.8 *8*	1.19 *18*	(6512.34)	1^+	236.0453	3^-	
5303.0 *14*	0.26 *7*	(6512.34)	1^+	1209.370	3^-	[x]6319.23 *6*	3.24 *16*					E1
5418.8 *9*	0.130 *43*	(6512.34)	1^+	1092.876	0^-	6457.37 *6*	2.66 *13*	(6512.34)	1^+	55.1812	1^-	E1
5456.0 *12*	0.10 *5*	(6512.34)	1^+	1056.719	2^-	6512.63 *7*	1.82 *9*	(6512.34)	1^+	0.0	2^-	E1
[x]5462.9 *8*	0.300 *69*											

[†] From internal-conversion electron measurements (1996Ma70,1996Ma75). The conversion electron intensities not given in 1996Ma70.
[‡] From J^π between transition levels.
[#] Photons per 100 neutron captures given by authors (1996Ma70,1996Ma75). For absolute intensities, a systematic error of 20% has to be added.
[@] For intensity per 100 neutron captures, multiply by 0.88 *18*.
[&] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
[a] Multiply placed with undivided intensity.
[x] γ ray not placed in level scheme.

$^{198}_{79}Au_{119}$-37

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme

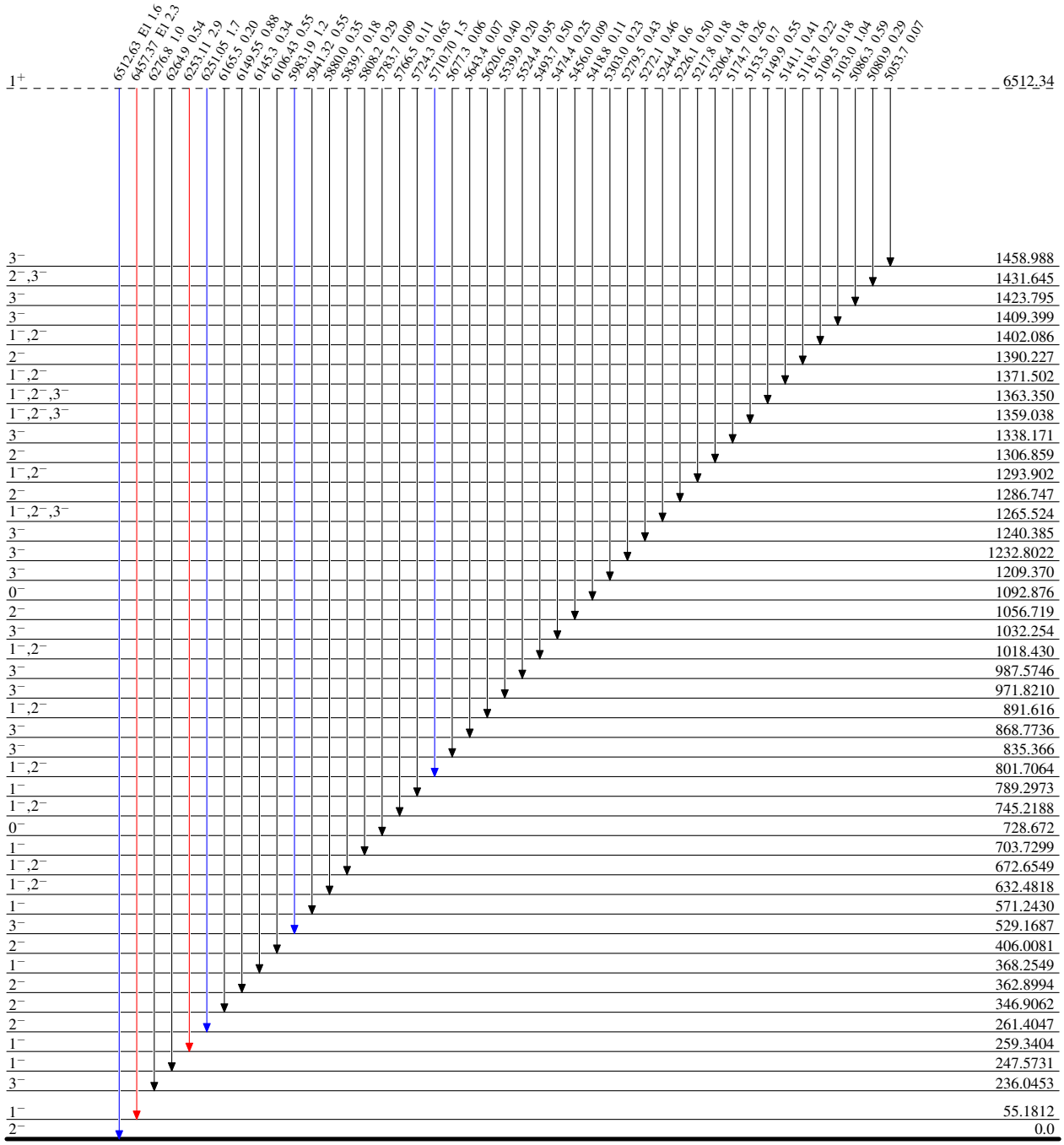
Intensities: I_γ per 100 neutron captures

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



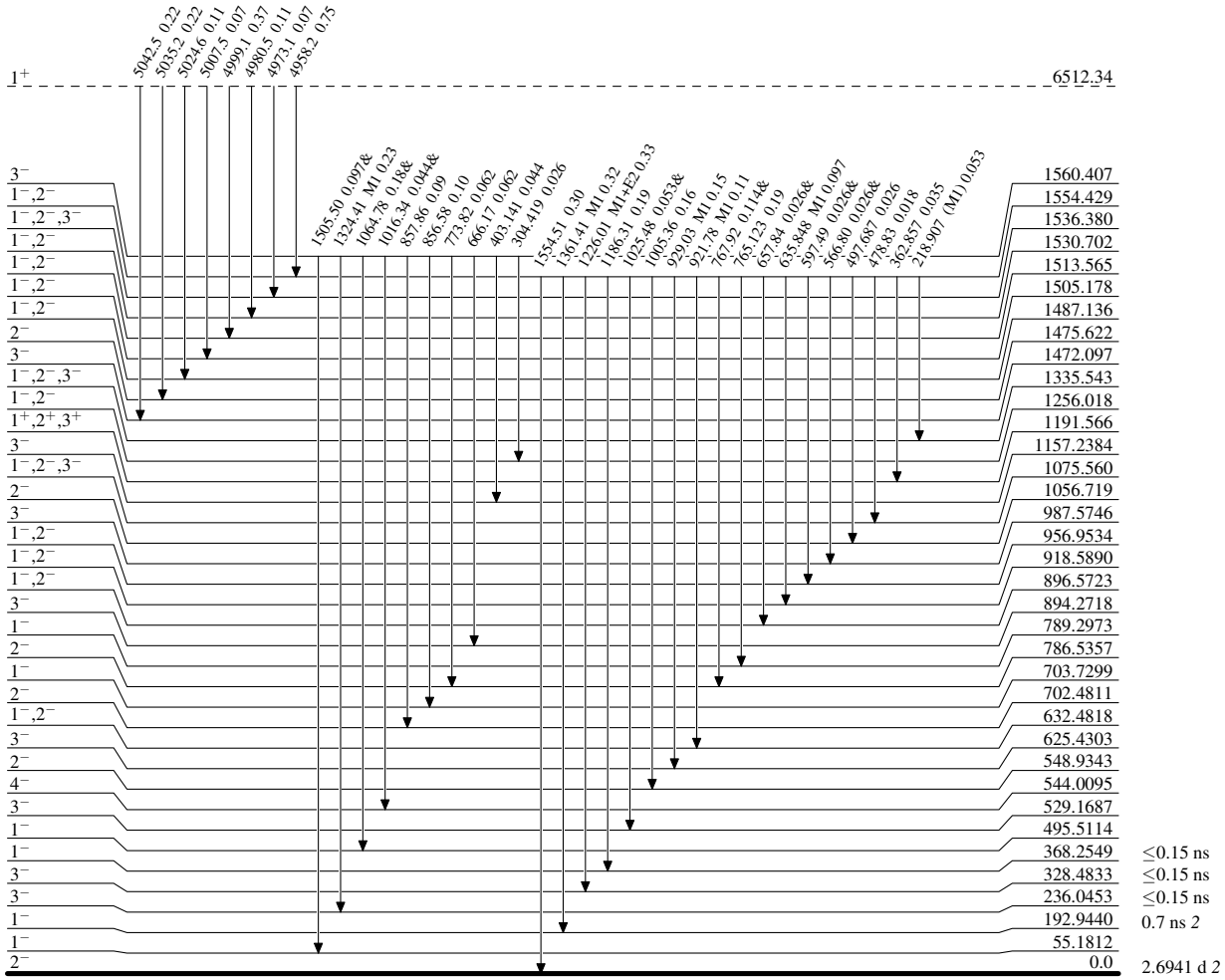
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



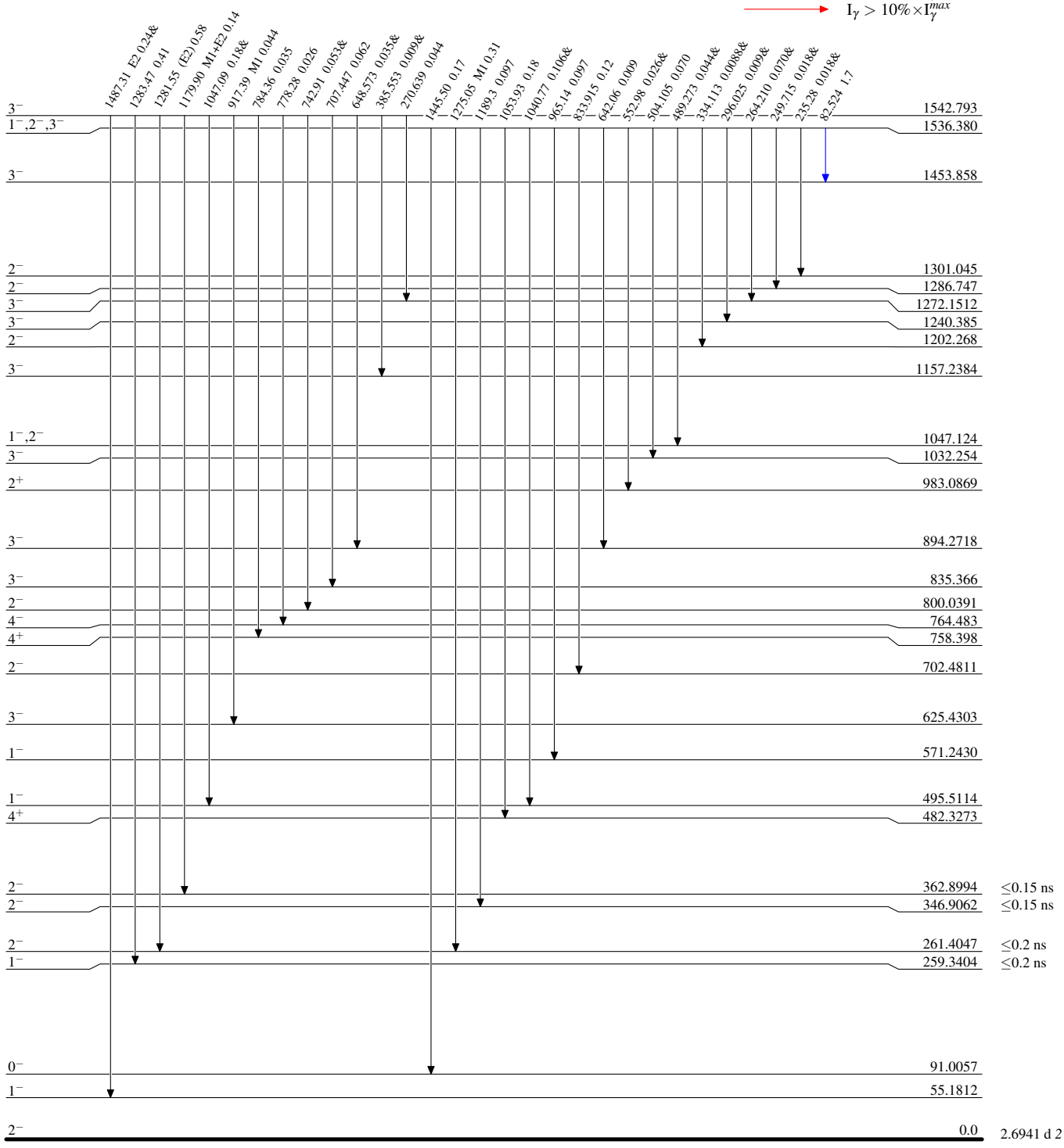
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



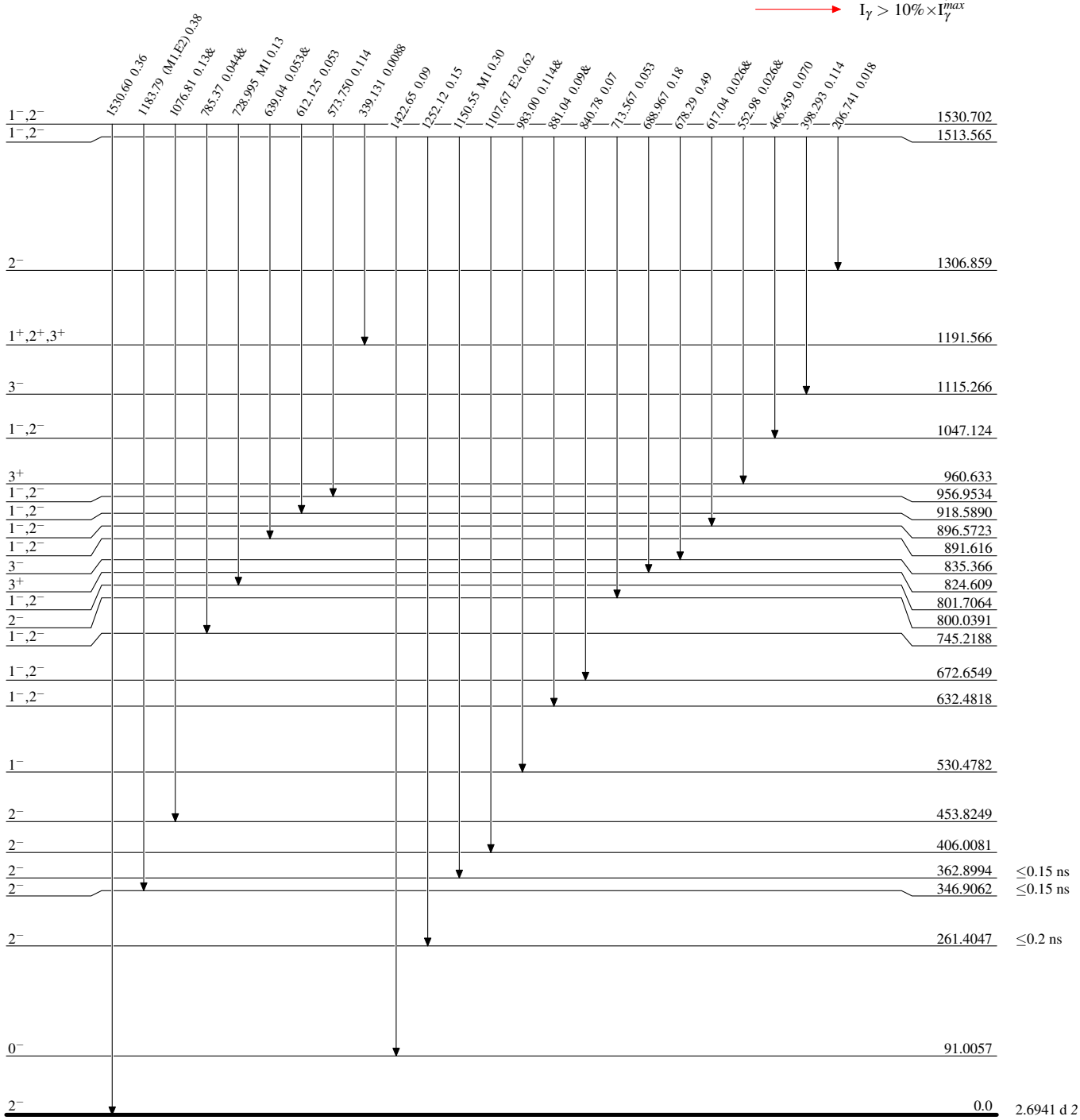
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



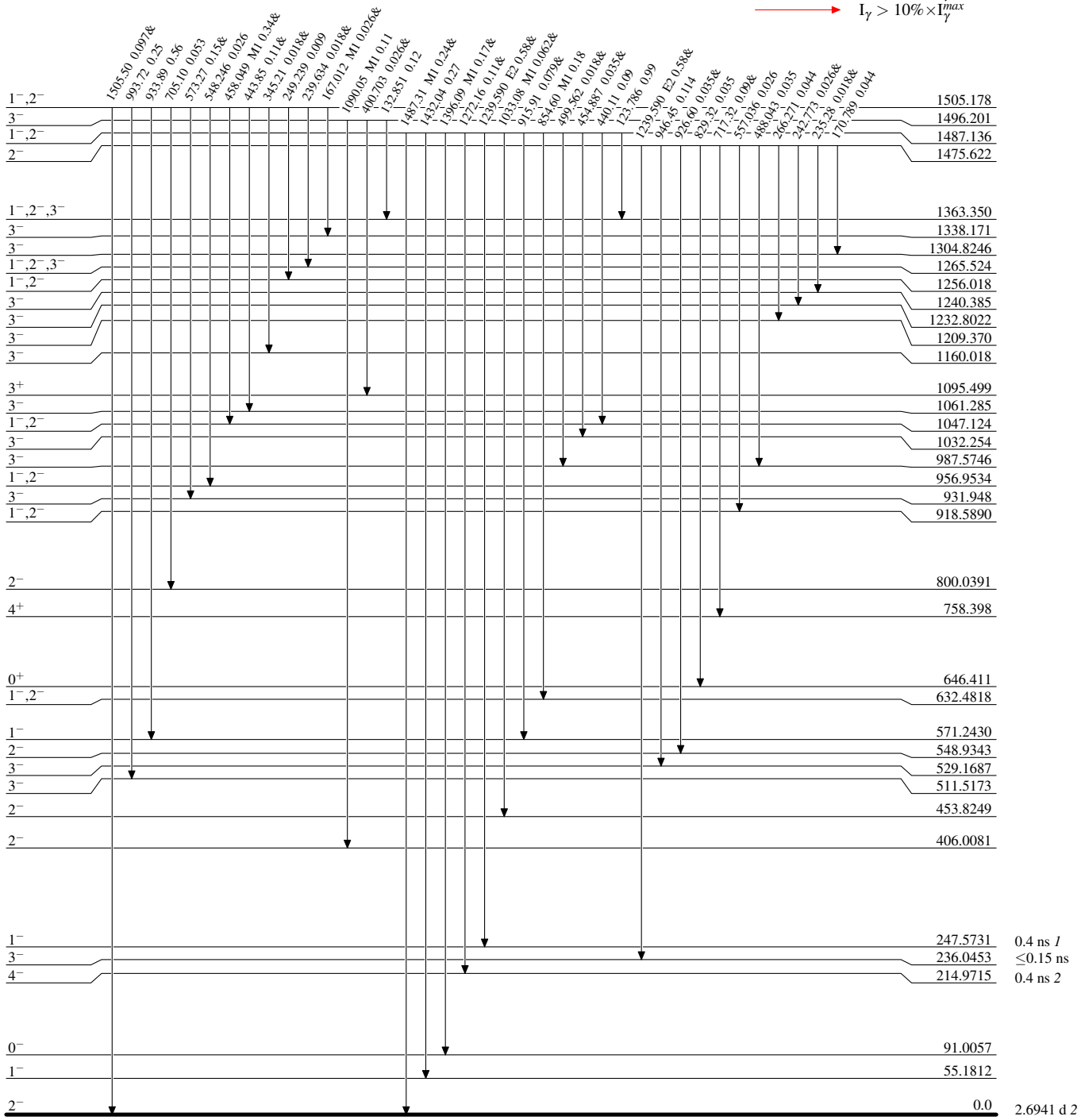
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



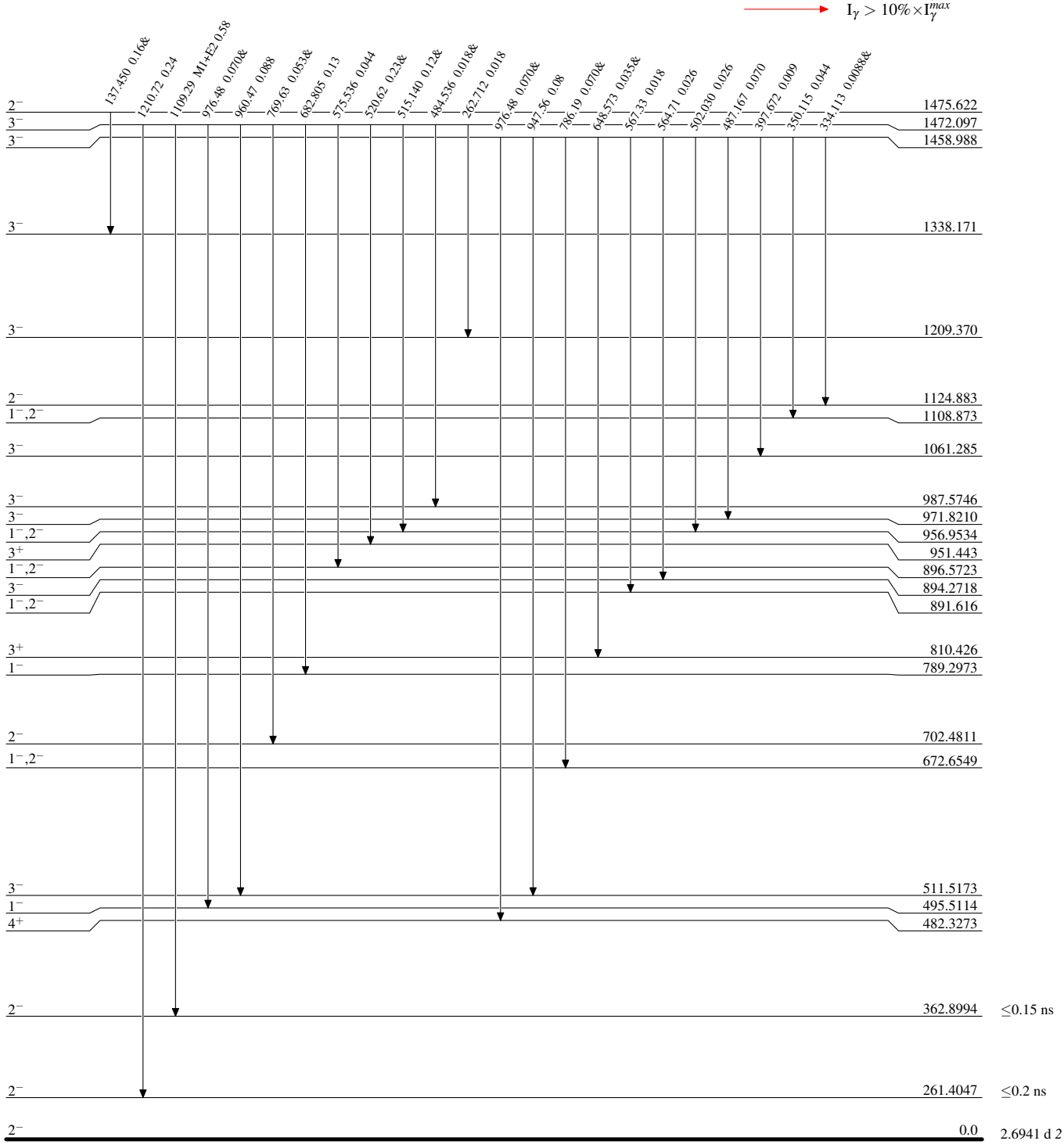
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



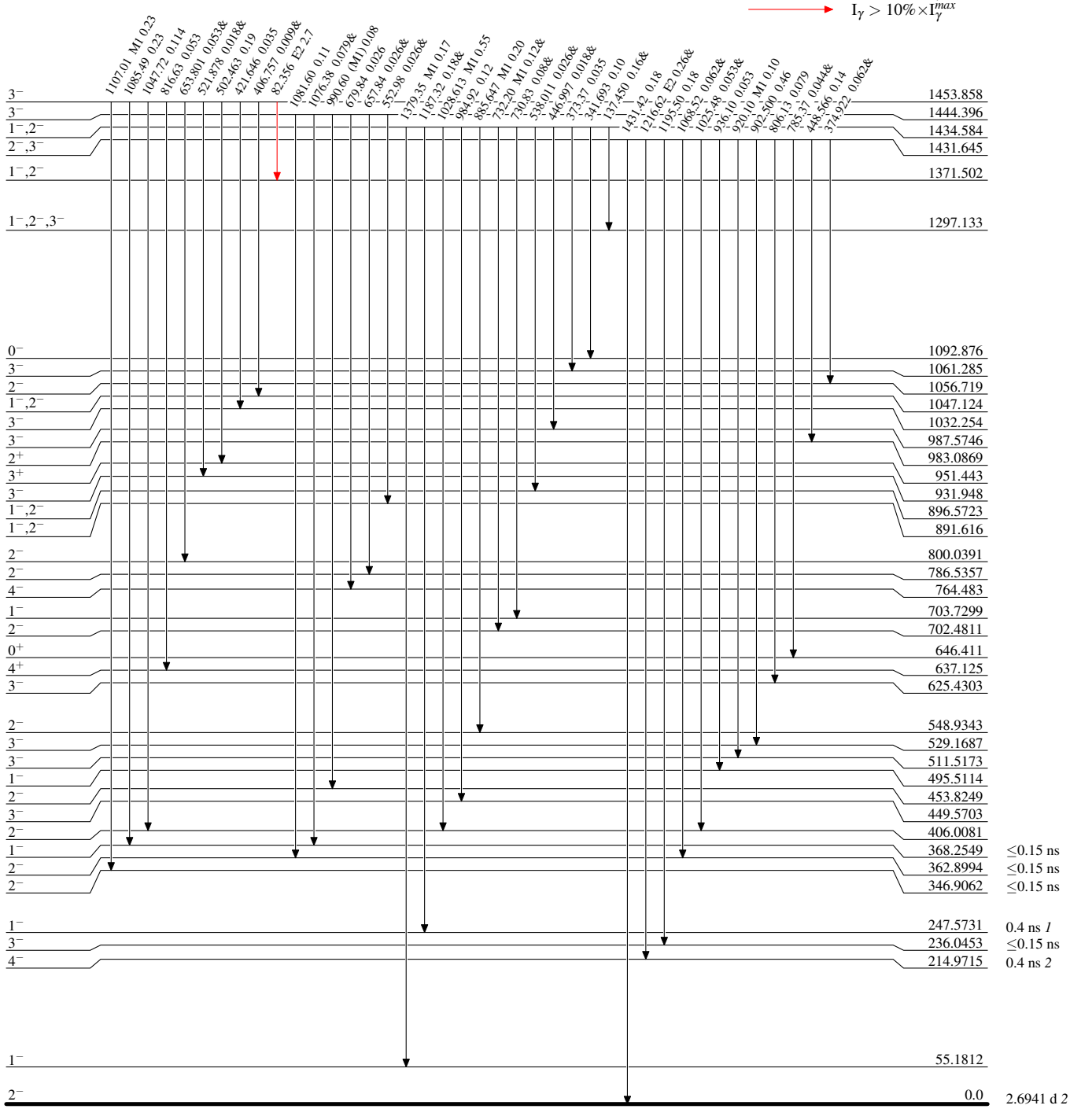
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



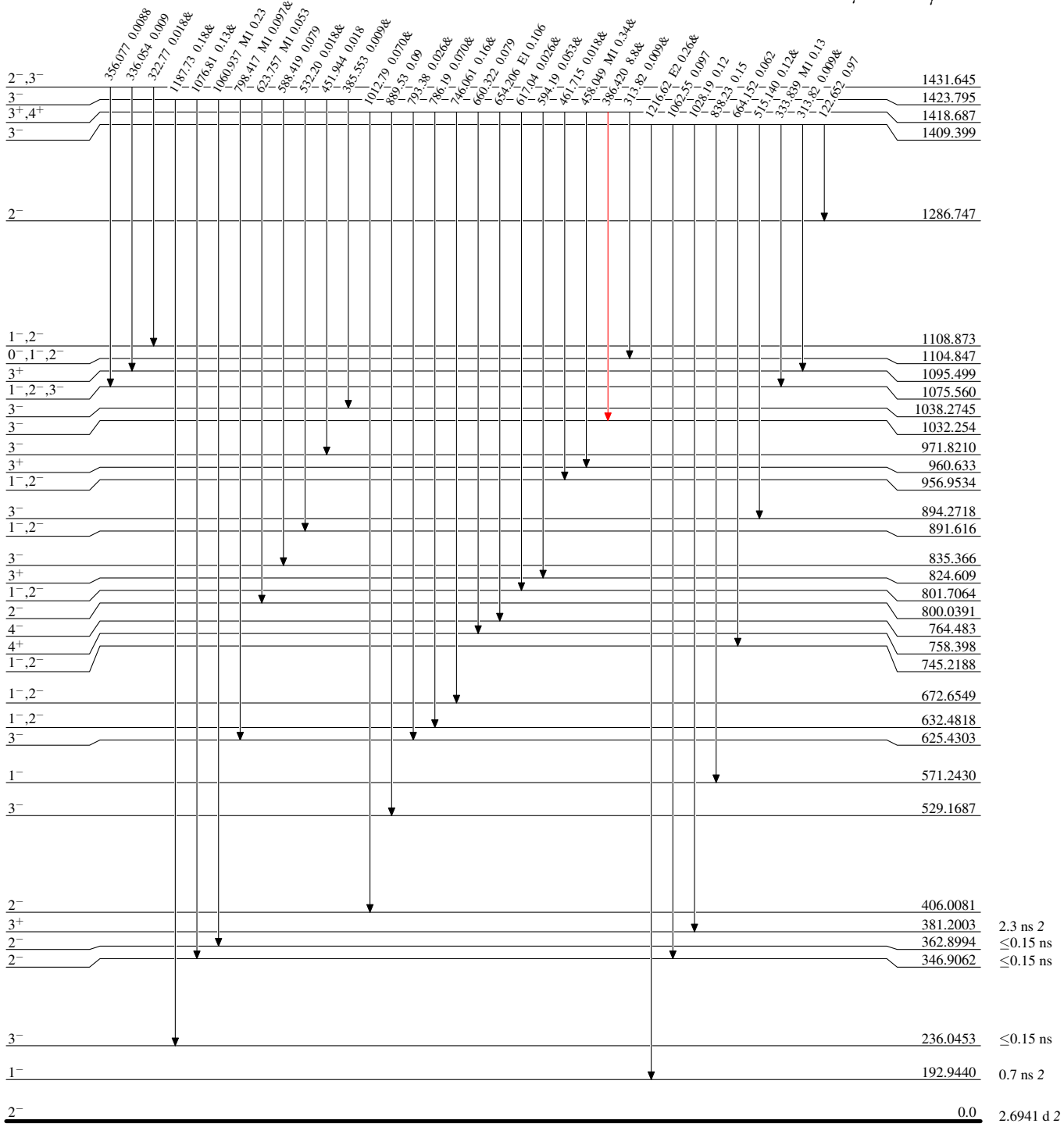
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
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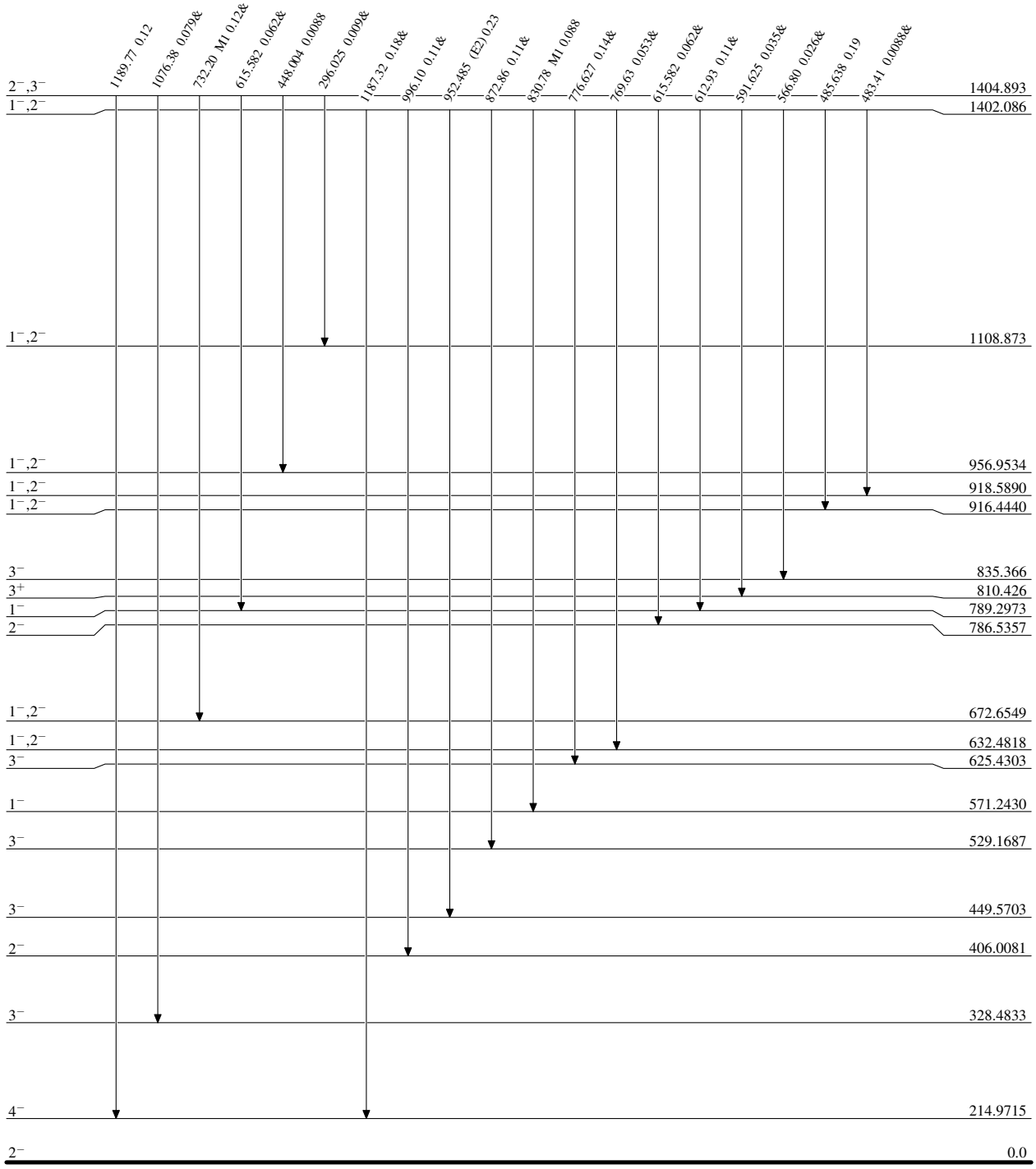
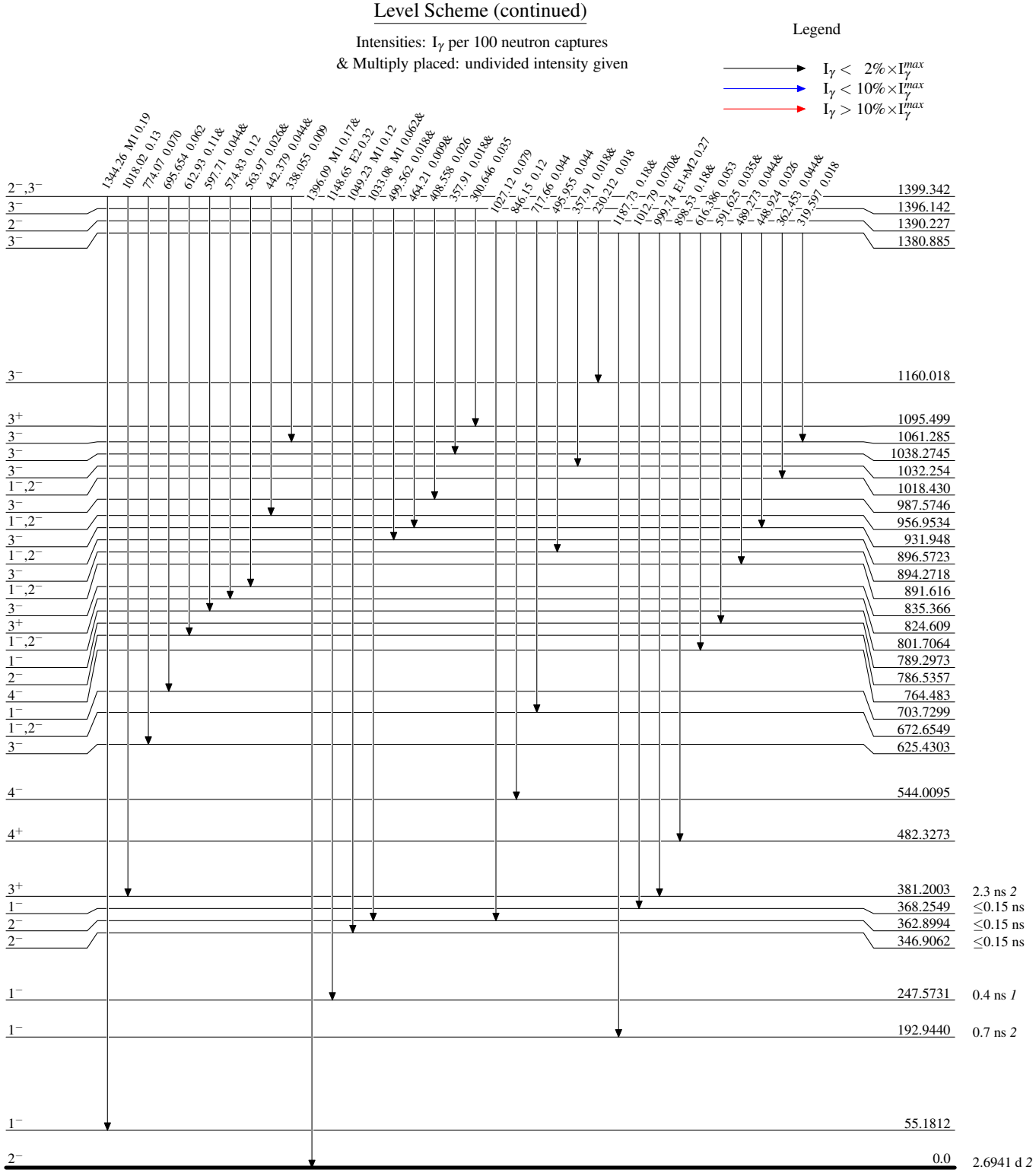


$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

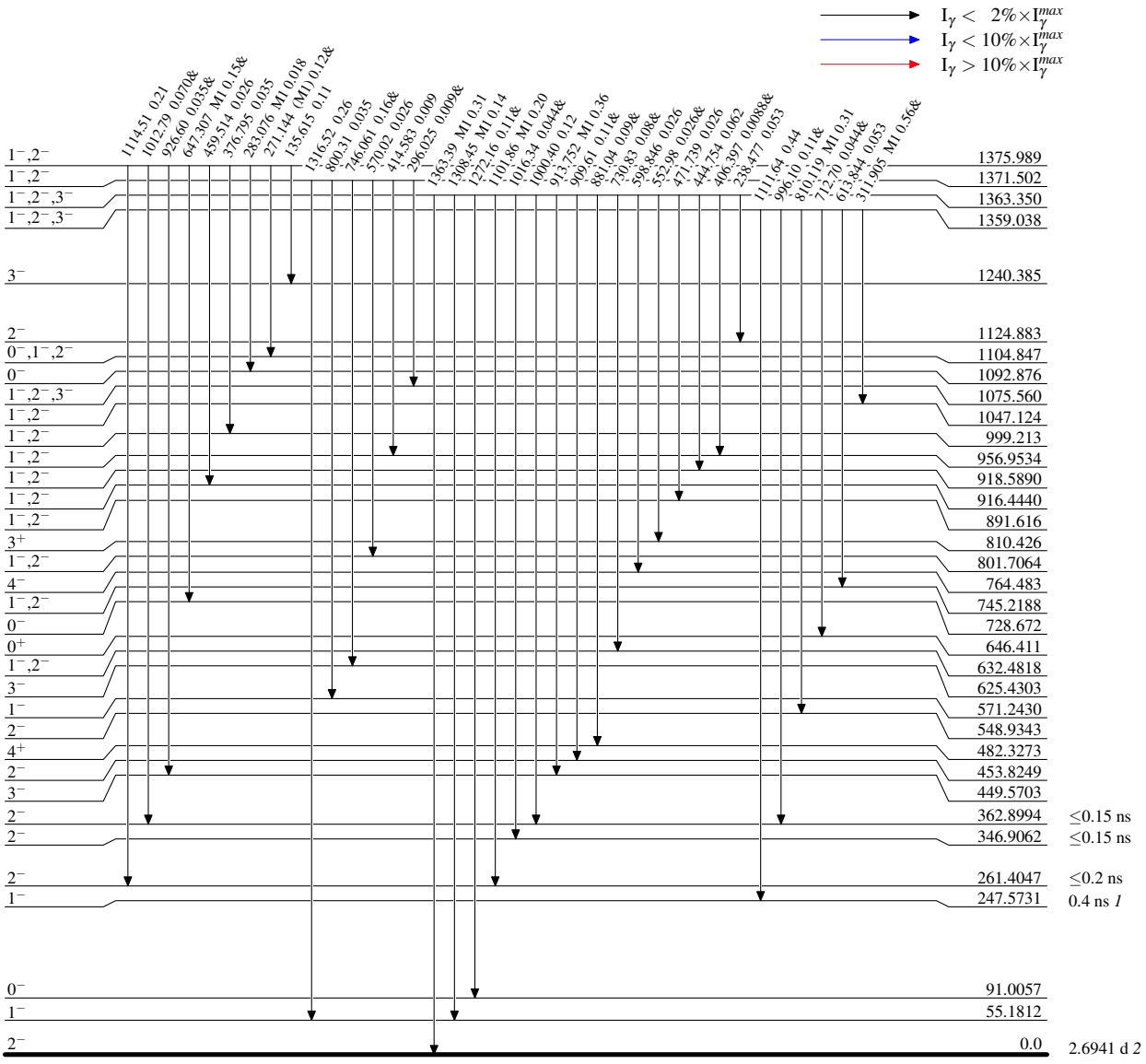


$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given



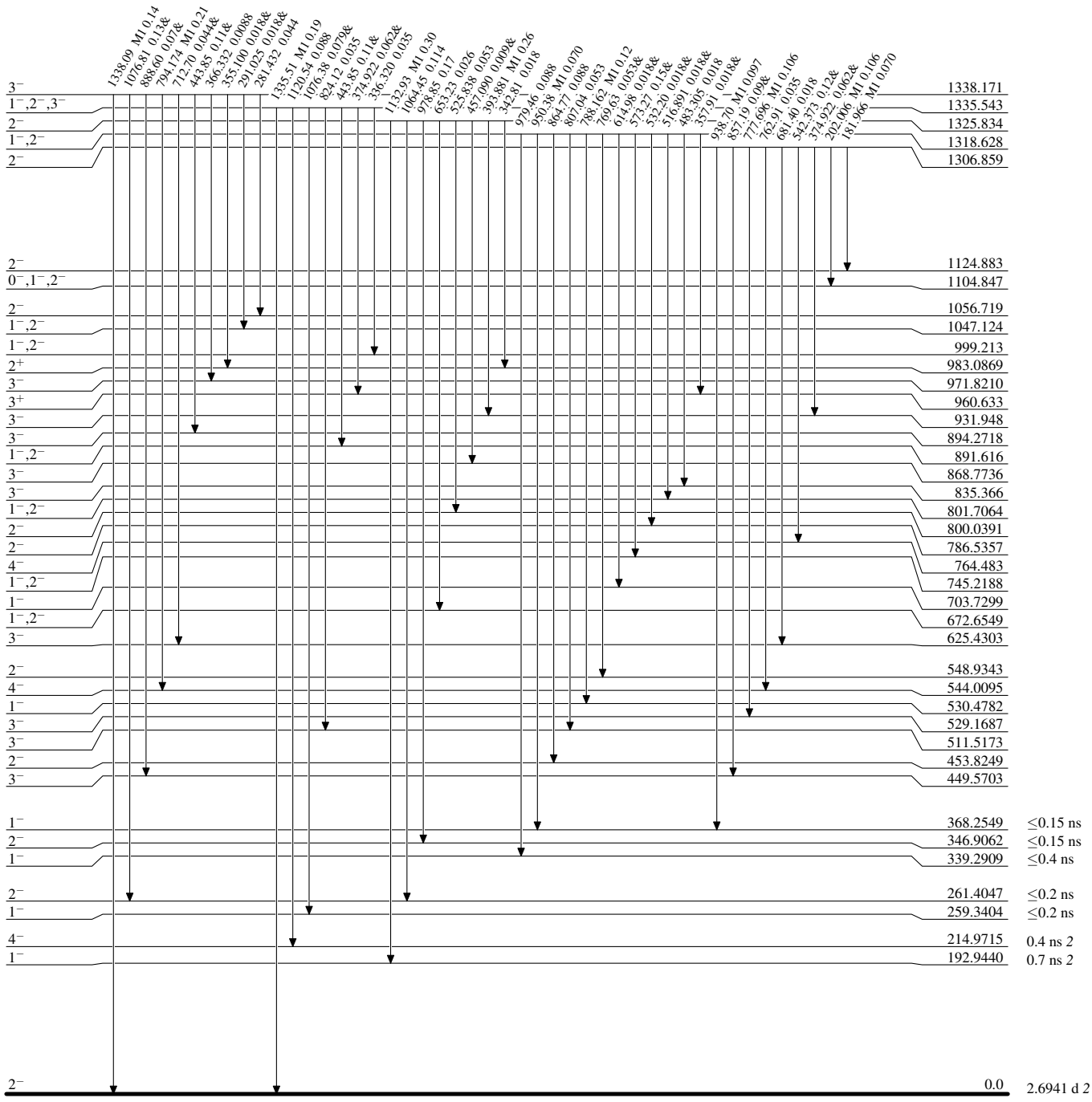
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
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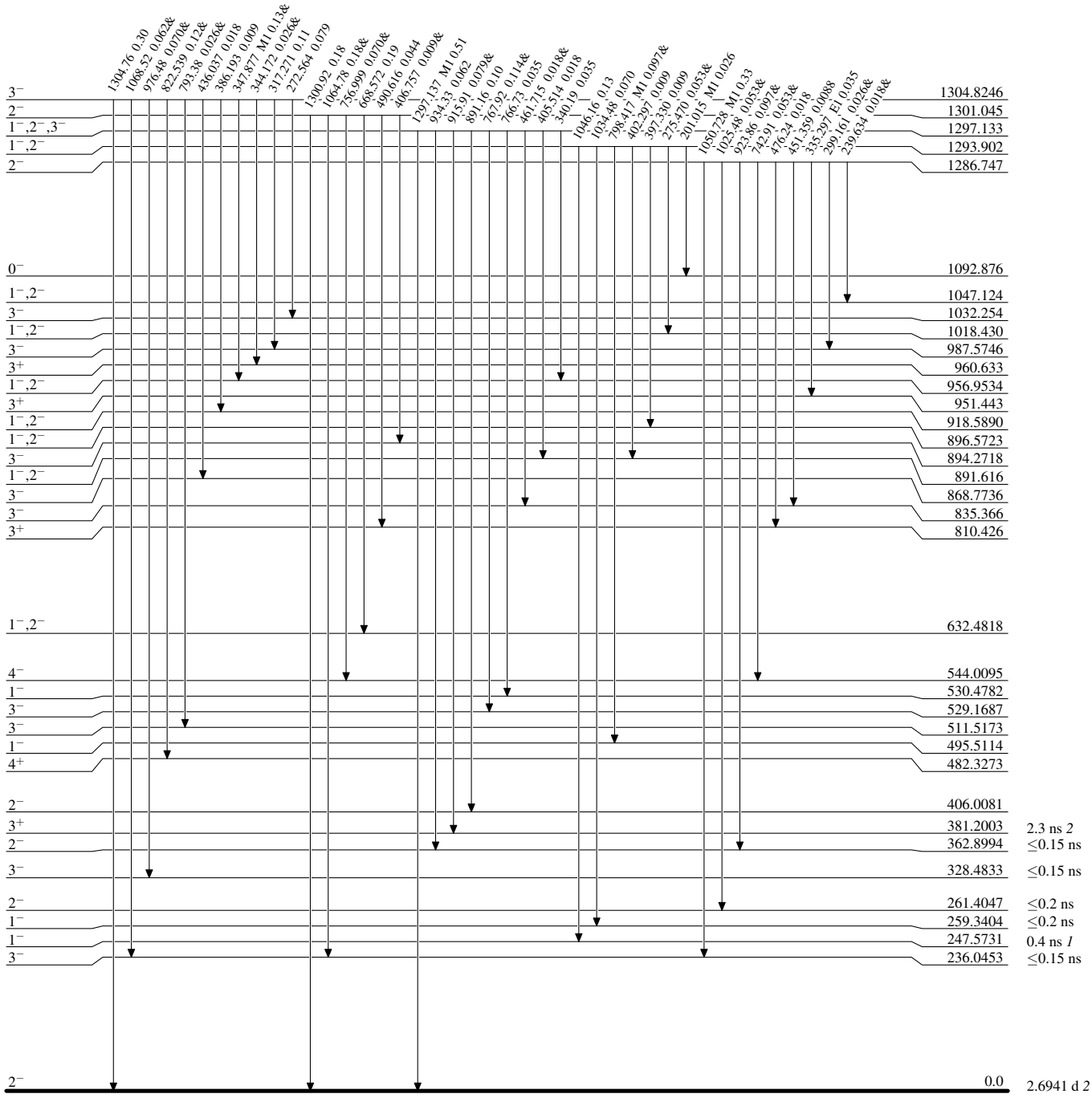
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$

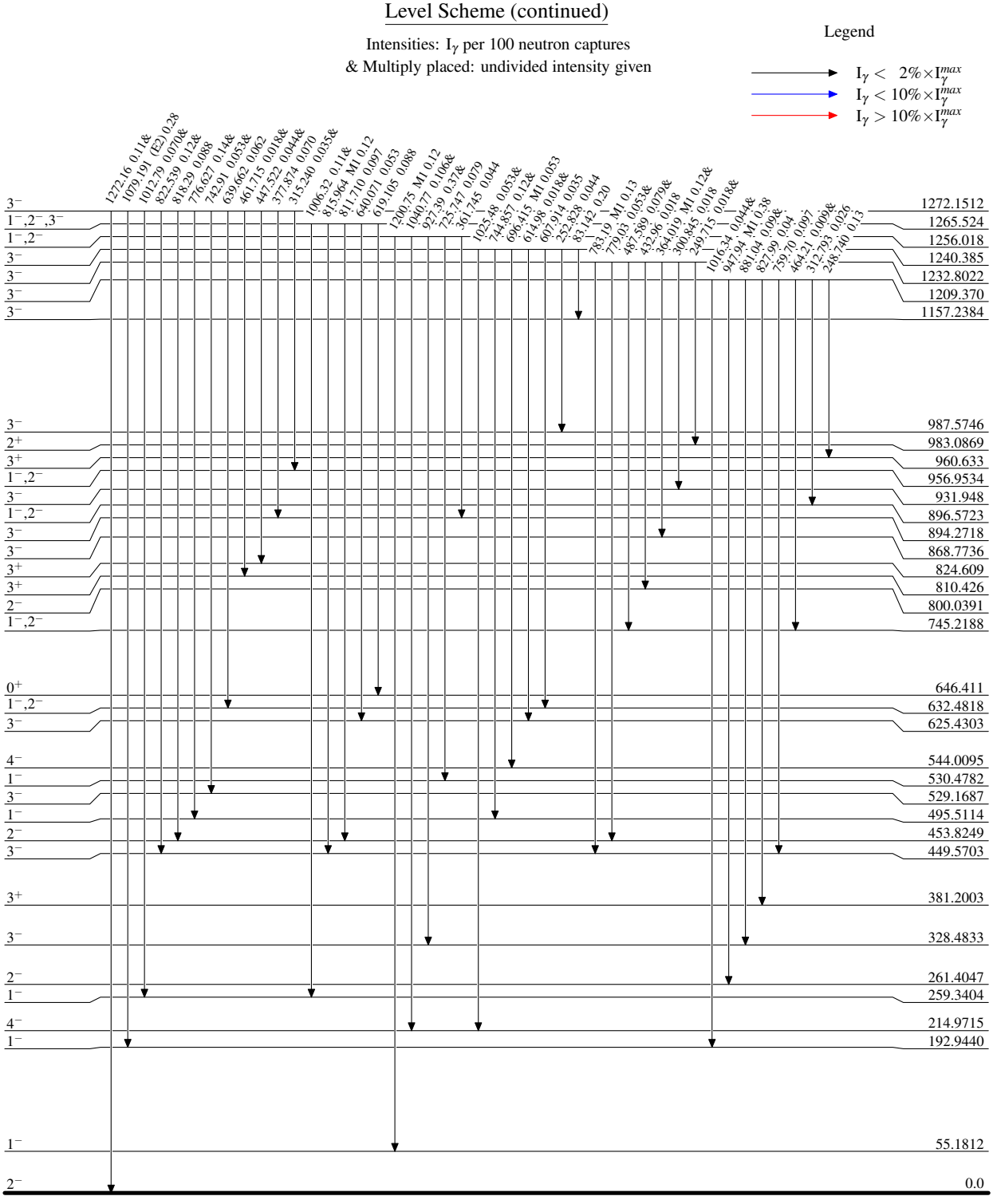


$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given



$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
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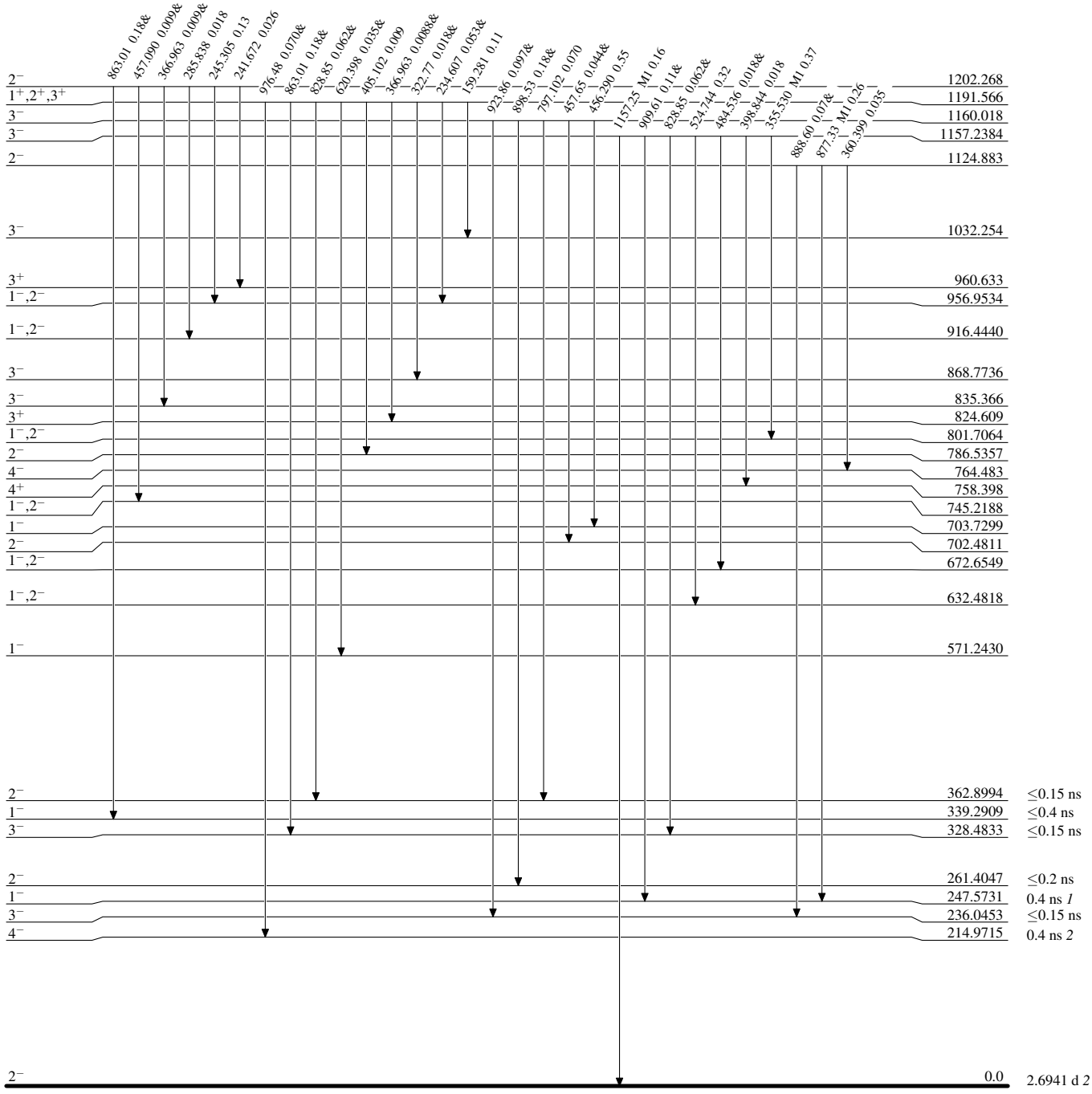
$I_\gamma > 10\% \times I_\gamma^{max}$



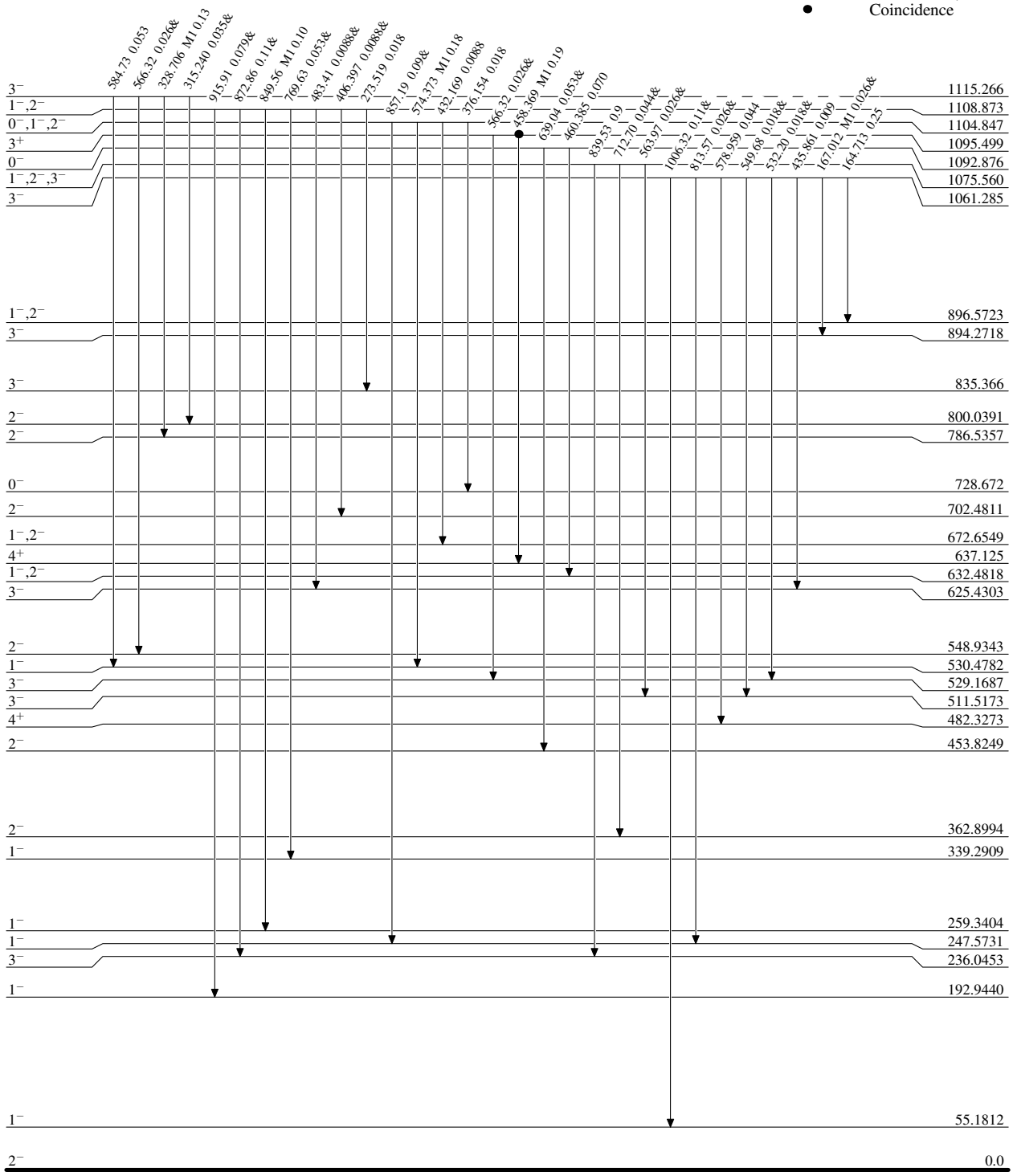
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence



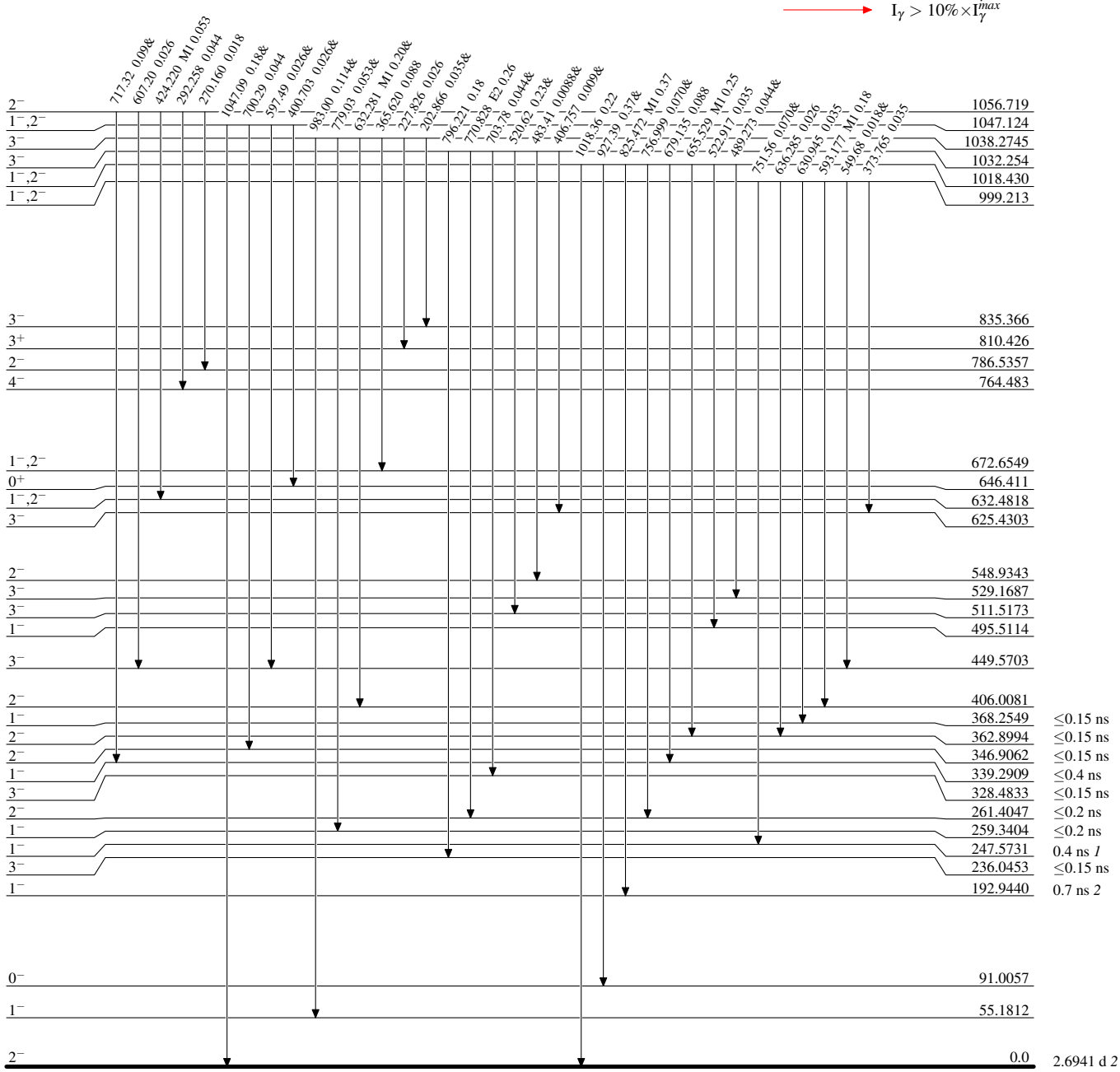
$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
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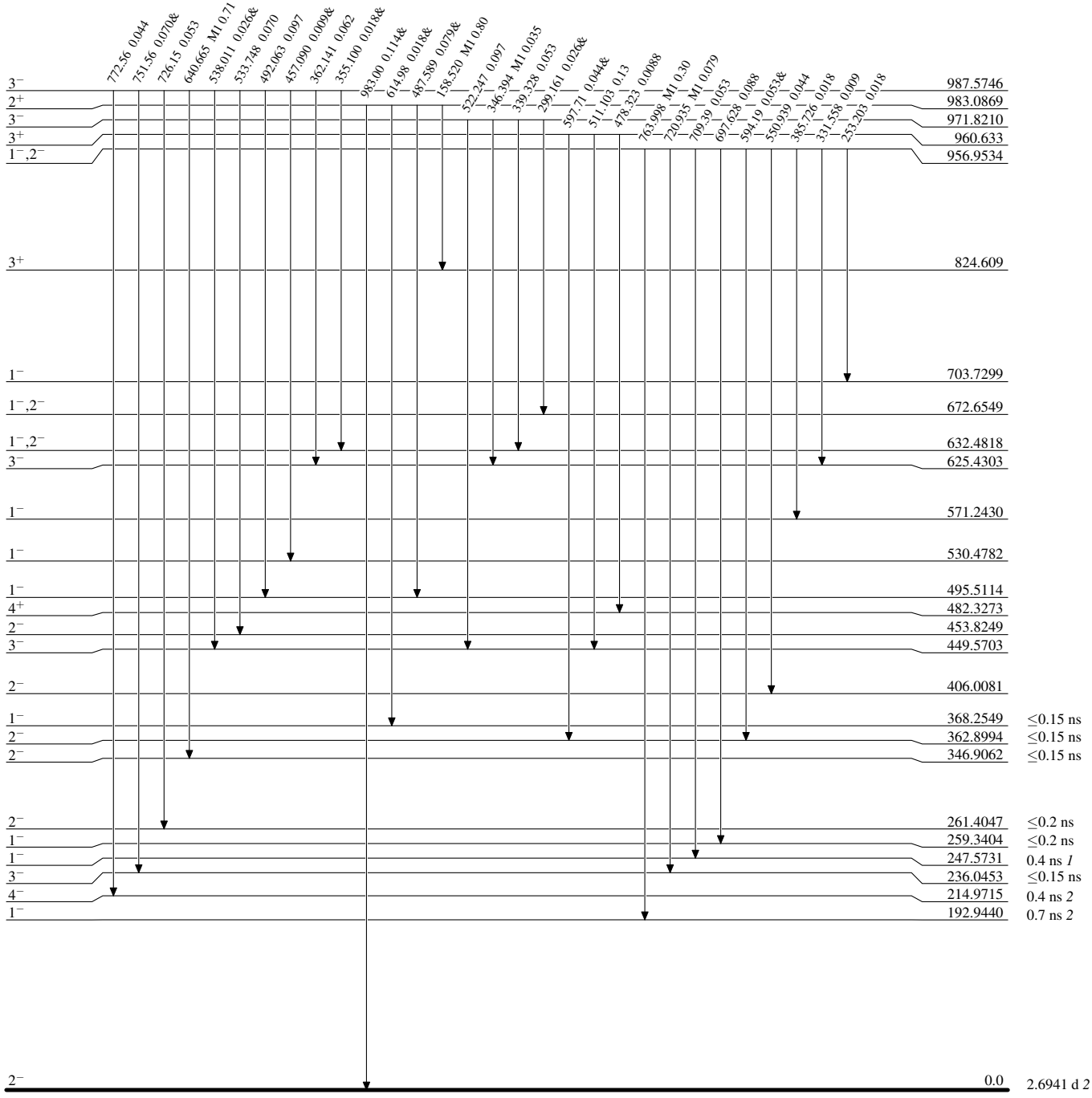

$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
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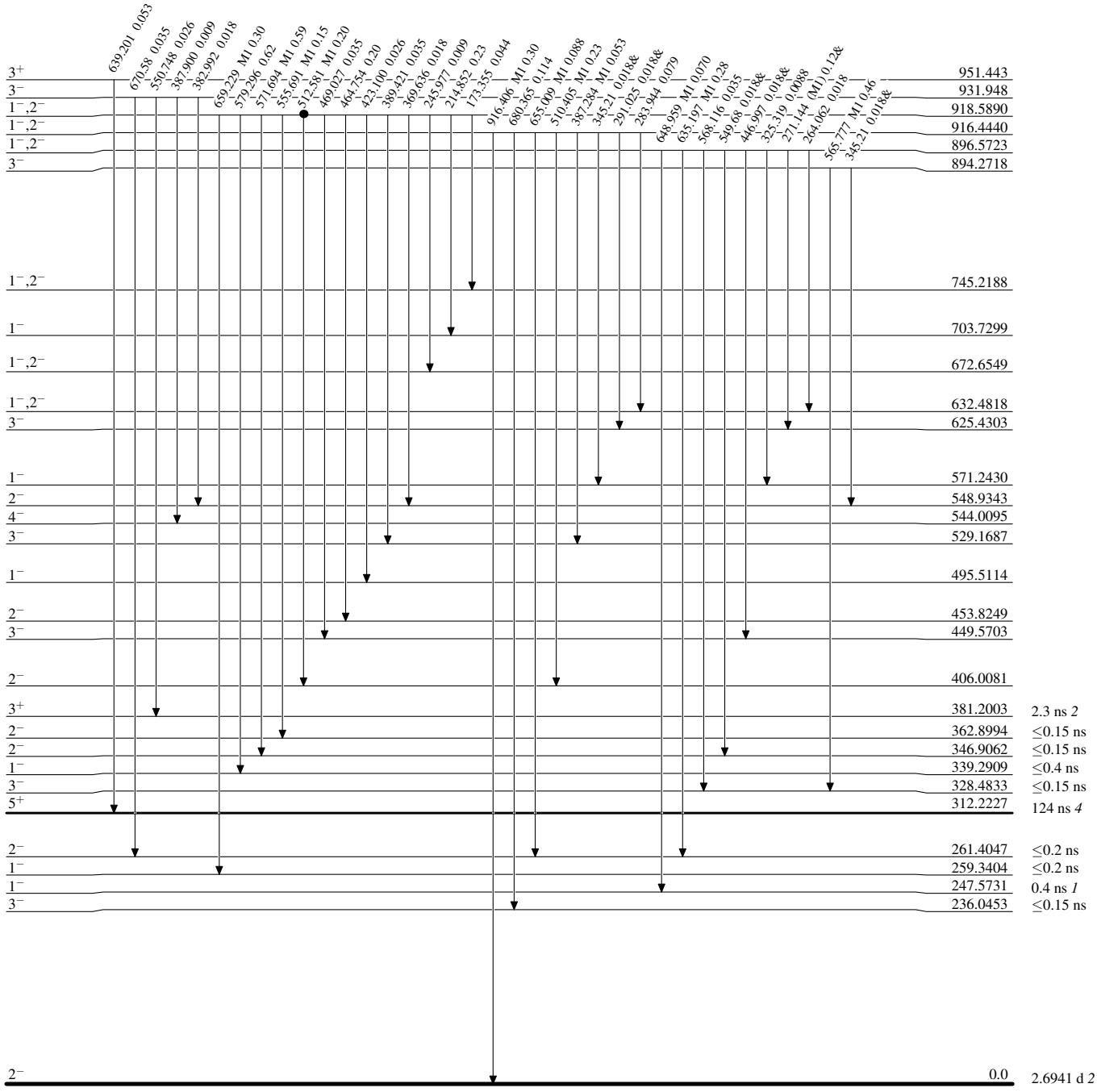
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence



$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
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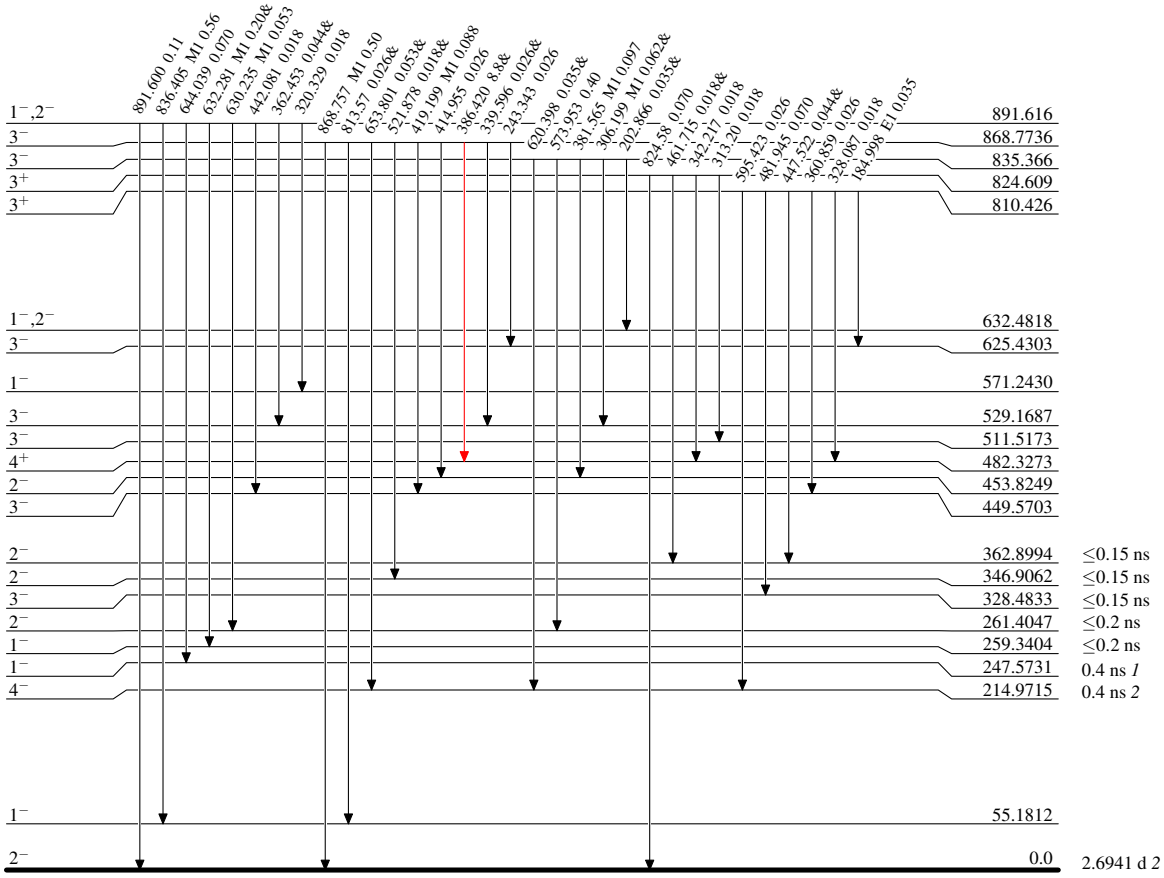

$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
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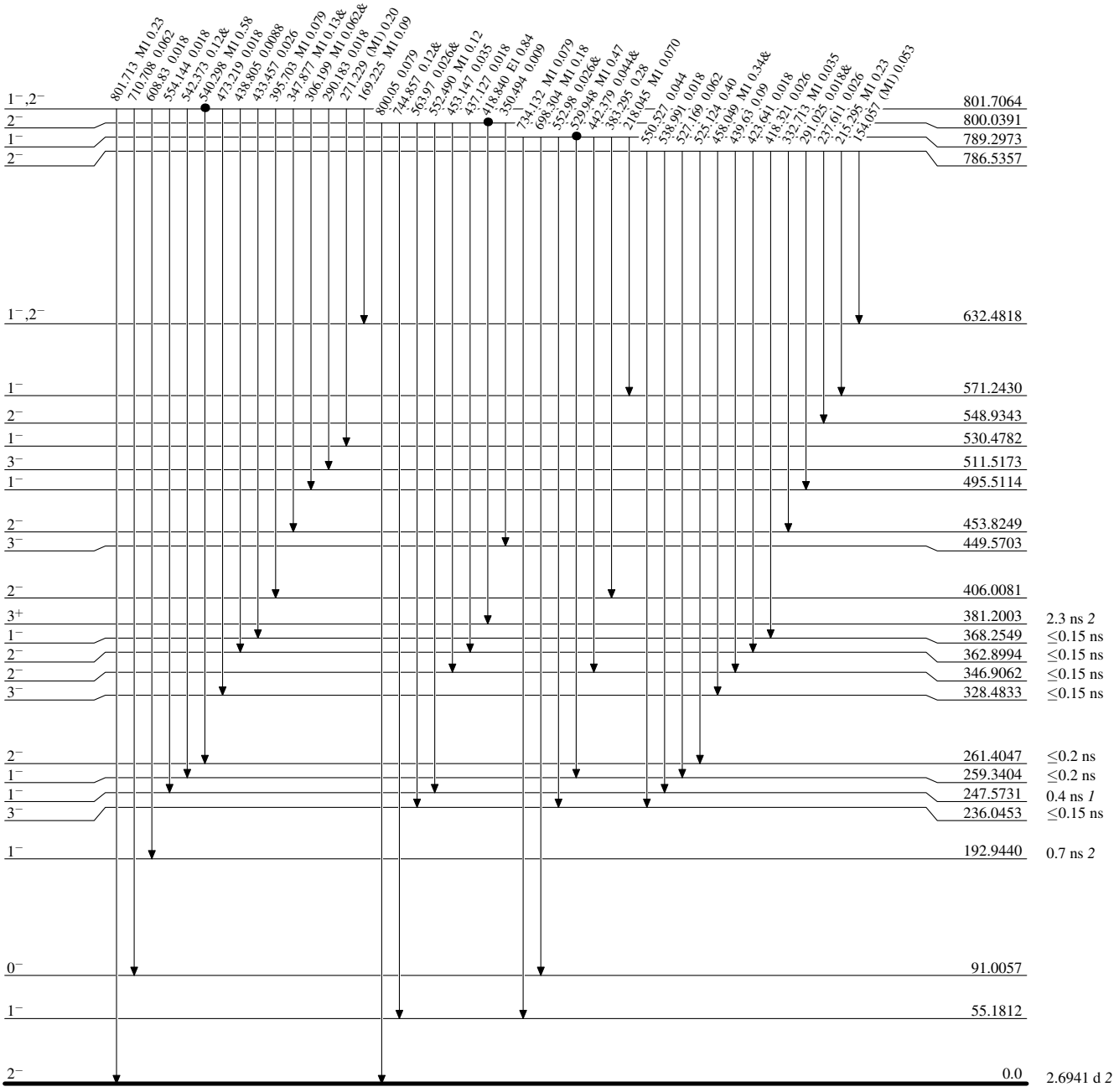
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence



$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
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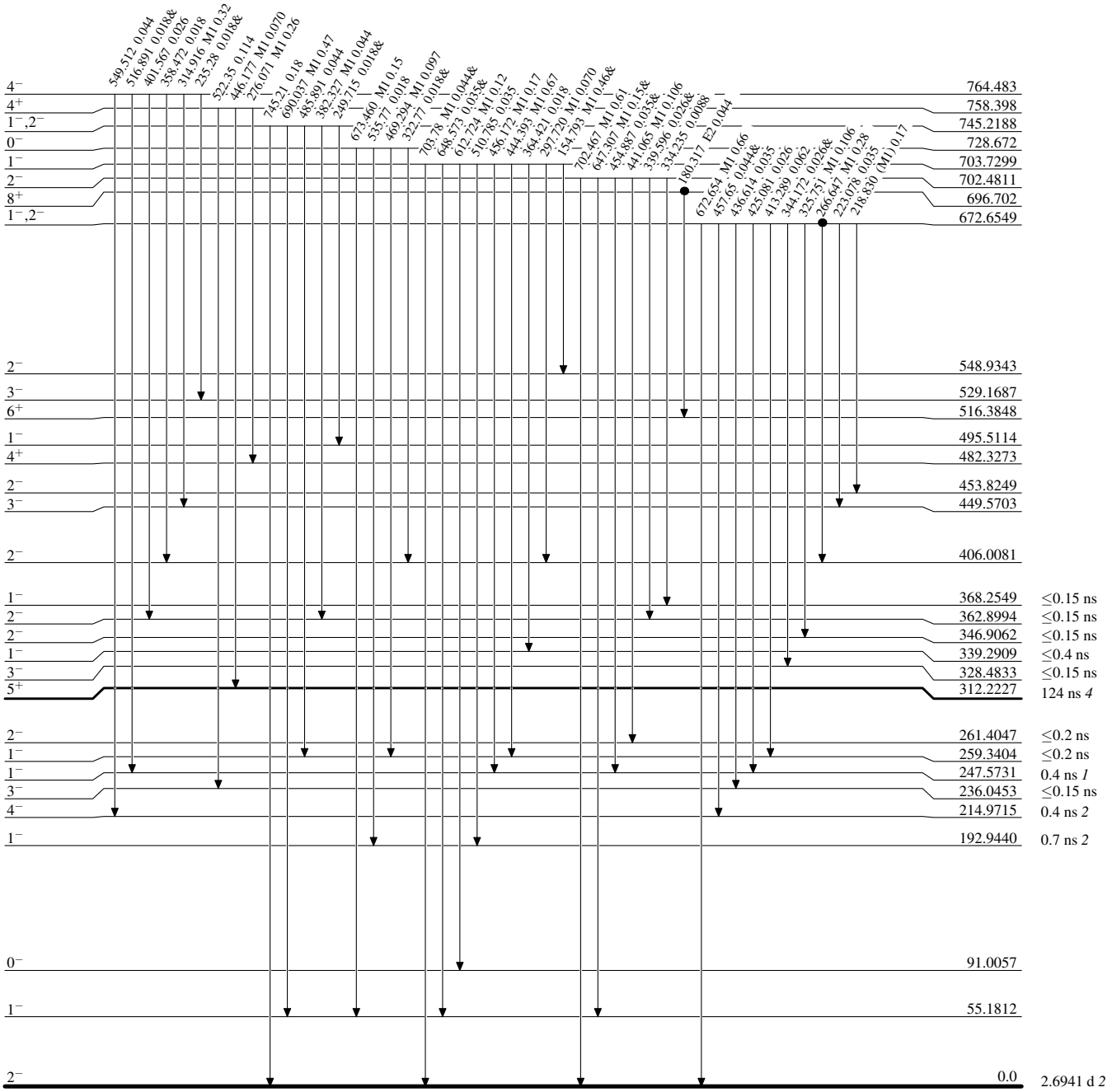
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence



$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
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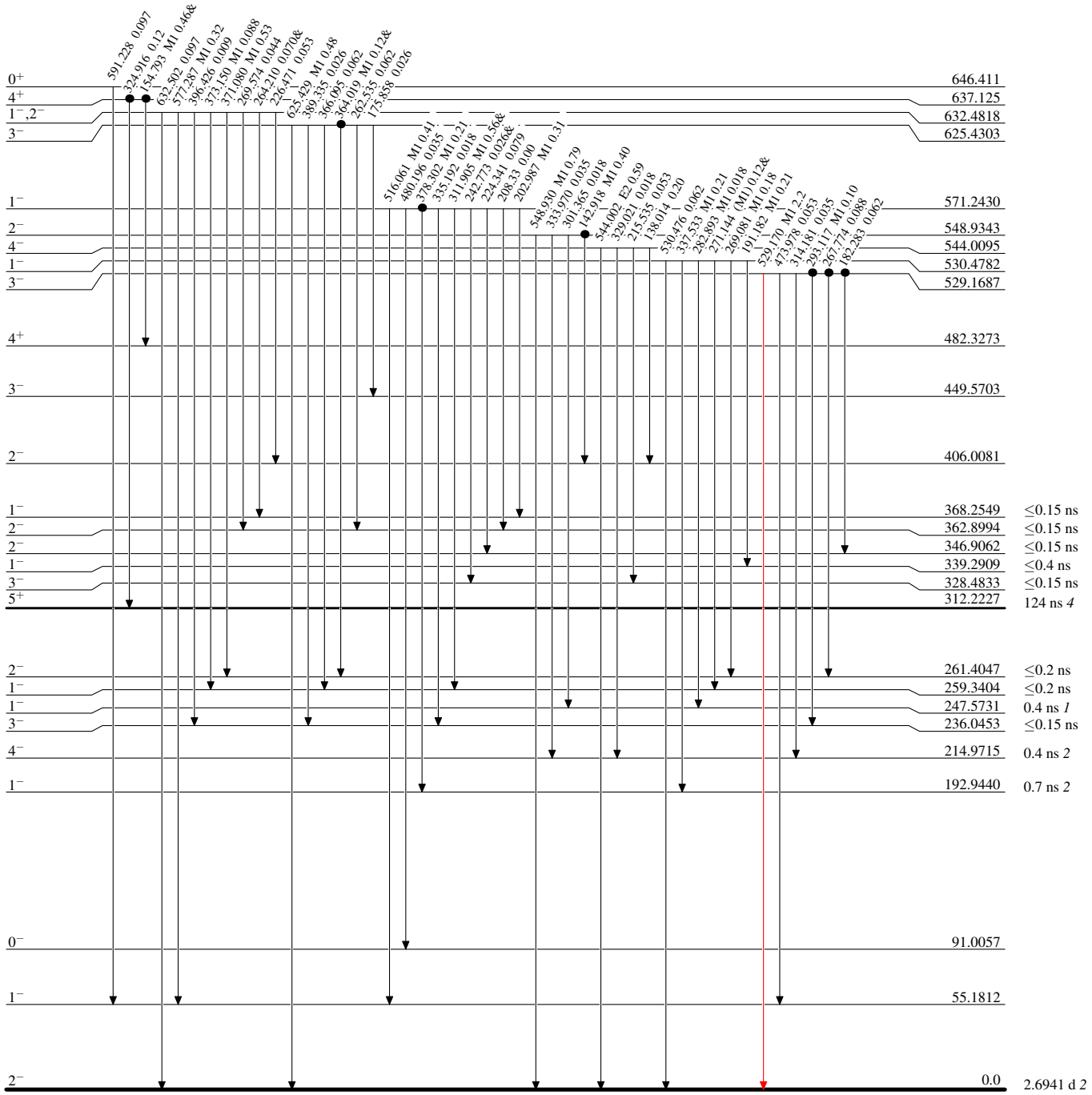
Coincidence

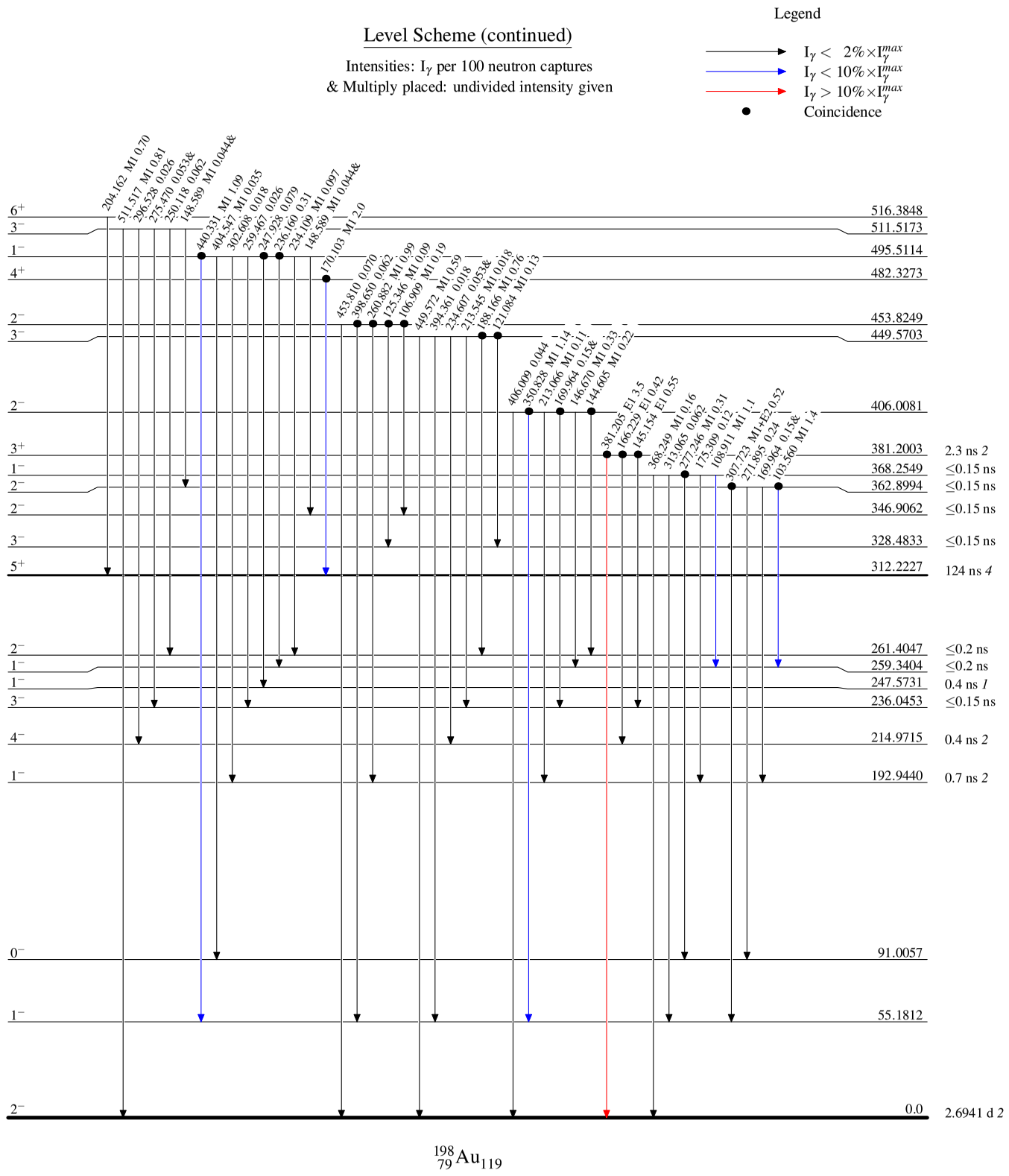


$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given



$^{198}_{79}Au_{119}$

^{197}Au(n,γ) E=thermal 1996Ma70,1996Ma75,1993Pe04

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
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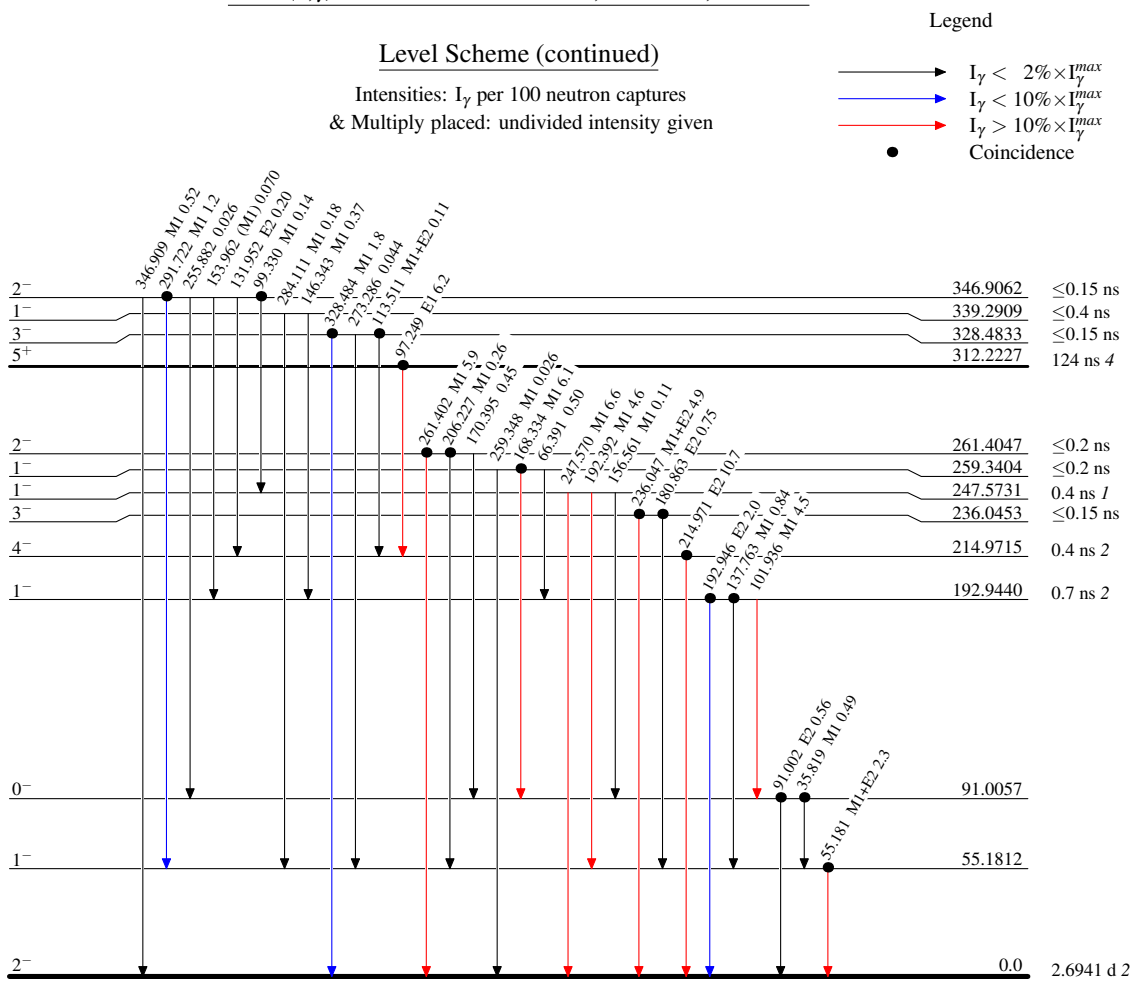

$^{198}_{79}Au_{119}$