

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 143, 1 (2017)	31-Mar-2017

$Q(\beta^-)=1141.9$ 24; $S(n)=5583.42$ 20; $S(p)=9090$ 70; $Q(\alpha)=-200$ 40 [2017Wa10](#)

Other studies:

[1969Bi01](#) observed a 17-min activity in products from $^{192}\text{Os}(n,\gamma)$, which they assigned to an isomer of ^{193}Os , but [1972Lo06](#) later attributed that to ^{80}Br . Another unsuccessful attempt was made to confirm the original assignment by [1971MaYD](#).

 ^{193}Os LevelsCross Reference (XREF) Flags

A	$^9\text{Be}(^{208}\text{Pb}, X\gamma)$	D	$^{192}\text{Os}(d,p)$
B	$^{192}\text{Os}(n,\gamma)$ E=thermal	E	$^{192}\text{Os}(^7\text{Li}, ^6\text{Li}\gamma)$
C	$^{192}\text{Os}(n,\gamma)$ E=res		

E(level) [†]	J ^π #	T _{1/2}	XREF	Comments
0.0 ^a	3/2 ⁻	29.830 h 18	BCDE	$\% \beta^- = 100$ $\mu = +0.730$ 2 (2014StZZ, 1989Ed01, 1991Sc28); $Q = +0.48$ 6 (2014StZZ) J^π: primary γ from 1/2⁺ in average neutron resonance capture; $\log ft = 7.52$ and 7.70 for β decay to 139-keV ($J^\pi = 5/2^+$) and 740-keV ($J^\pi = 5/2^-$) levels in ^{193}Ir, respectively. $T_{1/2}$: From 2012Kr05. Other values: 30.11 h 1 (1992An13), 30.0 h 3 (1969Co08), 31.5 h 5 (1958Na15), 30.6 h 4 (1950Ch11), 31.9 h 10 (1947Go01), and 2010ZaZX report 30.05 h 14, 29.952 h 17, 29.953 h 8 averaging 75 data points (25 5-mg enriched ^{192}Os target for 3 γ rays) using averaging methods of Limitation of Relative Statistical Weight, the Rajeval Technique, and the Normalized Residuals, respectively. Evaluator recommends 2012Kr05 value over the other precise measurement of 1992An13 due to possible influence of higher ^{193}Os irradiation-end activity, as noted in 2012Kr05 and comparing values in 2010ZaZX. Evaluator's note: Irradiation end ^{193}Os activity was six times higher in 1992An13 compared to 150 kBq of 2012Kr05. Note 1969Co08 value is statistically in agreement with the recommended value, which was measured using enriched (98.7%) target and 280- and 460-keV K lines. μ: NMR-ON (1989Ed01), sign from γ-ray circular polarization from oriented nuclei decay (1991Sc28). Other: +0.75 3 (2014StZZ) recalculated value, from low temperature $I(\theta)$ and Mossbauer effect (1985Be03); 0.78 7 (2014StZZ) recalculated value, from static low-temperature nuclear orientation (1984Gh01). Q: 2014StZZ evaluation of 1979Er09 low temperature dependence of γ-anisotropy data reanalyzed by 1985Be03.
41.4844 ^b 22	(1/2 ⁻)		BC	J^π: primary γ from 1/2⁺ in (n,γ); absence of (d,p) strength and position of level, relative to that for 3/2[512] orbital, consistent with 1/2[510] Nilsson assignment.
72.903 ^a 4	(5/2 ⁻)		B DE	J^π: L=3 in $^{192}\text{Os}(d,p)$; 5/2⁻ consistent with band assignment.
102.7326 ^b 10	(3/2 ⁻)		BCD	J^π: L=1 in $^{192}\text{Os}(d,p)$; 3/2⁻ consistent with band assignment.
233.8558 20	1/2 ⁻ , 3/2 ⁻		BCD	J^π: L=1 in $^{192}\text{Os}(d,p)$.
295.6812 19	(5/2 ⁻)&		B	
307.0838 16	1/2 ⁻ , 3/2 ⁻		BCD	J^π: L=1 in $^{192}\text{Os}(d,p)$.
315.6 3	(9/2 ⁻)	121 ns 28	E	Configuration=9/2⁻[505]. J^π: from configuration assignment in 2014Ga14. $T_{1/2}$: Weighted average of 110 ns 28 (2014Ga14 - ($^7\text{Li}, ^6\text{Li}\gamma$)) and 132 ns

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Adopted Levels, Gammas (continued) ^{193}Os Levels (continued)

E(level) [†]	J ^π #	XREF	Comments
			29 (2011St21 – ($^{208}\text{Pb}, \text{X}\gamma$)). Uncertainty – lower input value.
399.018 4	(5/2) ⁻	B D	J ^π : L=3 in $^{192}\text{Os}(\text{d}, \text{p})$; γ to (1/2) ⁻ .
434.9606 25	1/2 ⁻ , 3/2 ⁻	BCD	J ^π : L=1 in $^{192}\text{Os}(\text{d}, \text{p})$.
455.773 5	(5/2) ⁻	B D	J ^π : L=3 in $^{192}\text{Os}(\text{d}, \text{p})$; γ to (1/2) ⁻ .
544.552 4	(5/2 ⁻ , 7/2 ⁻)&	B D	
550.9 [‡] 10		B	
558.3 5		E	
573.2 [‡] 10		B	
587.6 [‡] 10		B	
675.2 [‡] 7		B	
709.200 10	(5/2 ⁻ , 7/2 ⁻)&	B	
762	5/2 ⁻ , 7/2 ⁻	D	J ^π : L=3 in $^{192}\text{Os}(\text{d}, \text{p})$.
788.5 [‡] 10		B	
867.7 6		E	
888.624 21		Bc	J ^π : 1/2 ⁻ , 3/2 ⁻ can be assigned to at least one member of the 888.6-889.5 doublet on the basis of population in average resonance capture.
889.462 7		Bc	J ^π : see comment with 888.62 level.
904.8 6		E	
952	5/2 ⁻ , 7/2 ⁻	D	J ^π : L=3 in $^{192}\text{Os}(\text{d}, \text{p})$.
966.9 [‡] 7		B	
970.5 6		E	
1053.856 7	1/2 ⁻ , 3/2 ⁻ @	BC	
1085.385 11	(1/2 ⁻ , 3/2 ⁻)	B D	J ^π : L=1 in $^{192}\text{Os}(\text{d}, \text{p})$; assignment uncertain (level should be, but is not, populated in average resonance capture).
1170.860 8	(1/2 ⁺ , 3/2 ⁺)	B	J ^π : probable primary M1 γ from 1/2 ⁺ (level seen in thermal, but not in average resonance capture).
1178.655 14	1/2 ⁻ , 3/2 ⁻	BCD	J ^π : L=1 in $^{192}\text{Os}(\text{d}, \text{p})$.
1185.4 [‡] 10		B	
1195.9 6		E	
1205.2 [‡] 7		B	
1216.927 8	1/2 ⁽⁻⁾ , 3/2 ⁽⁻⁾ @	BC	
1225.7 [‡] 6		B	
1244.6 [‡] 7		B	
1267.3 [‡] 10		B	
1281.469 19	1/2 ⁻ , 3/2 ⁻ @	BC	
1288.468 8	1/2 ⁻ , 3/2 ⁻ @	BC	
1333.5 4		B	
1359.6 4		B	
1383.6 [‡] 10		B	
1386.0 4	1/2 ⁽⁻⁾ , 3/2 ⁽⁻⁾ @	BC	
1398.2 [‡] 7		B	
1400.0 [‡] 5		B	
1418.0 [‡] 5		B	
1434.0 [‡] 10		B	
1437.4 9	1/2 ⁽⁻⁾ , 3/2 ⁽⁻⁾ @	C	
1446.5 [‡] 10		B	
1459.513 10	5/2 ⁻ , 7/2 ⁻	B D	J ^π : L=3 in $^{192}\text{Os}(\text{d}, \text{p})$.
1496	5/2 ⁻ , 7/2 ⁻	D	J ^π : L=3 in $^{192}\text{Os}(\text{d}, \text{p})$.
1497.4 [‡] 10		B	

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Adopted Levels, Gammas (continued) ^{193}Os Levels (continued)

E(level) [†]	J ^π #	XREF	Comments
1501.5		B	
1504.1 [‡] 5		B	
1515.6 4	1/2 ⁻ , 3/2 ⁻ @	BC	
1517	5/2 ⁻ , 7/2 ⁻	D	J ^π : L=3 in $^{192}\text{Os}(\text{d},\text{p})$.
1523.5 5		B	
1530.3 5		B	
1555.8 [‡] 7		B	
1566		D	J ^π : L<5 in $^{192}\text{Os}(\text{d},\text{p})$.
1590.9 4	1/2 ⁻ , 3/2 ⁻ @	BC	
1603.2 4		B	
1644		D	
1660.3 [‡] 10		B	
1668		D	J ^π : L<5 in $^{192}\text{Os}(\text{d},\text{p})$.
1680.3 [‡] 10		B	
1683.3 4		B	
1697		D	
1722.5 [‡] 6		B	
1731.6 [‡] 10		B	
1737.6 [‡] 10		B	
1744.9 [‡] 7		B	
1754.2 [‡] 7		B	
1760.4 [‡] 7		B	
1765.1 4		B	
1783.8 [‡] 4		B	
1785.2 5		B	
1795.8 [‡] 7		B	
1798.9 [‡] 10		B	
1802.0 [‡] 10		B	
1805.1 [‡] 10		B	
1826.7 [‡] 7		B	
1830.6 5		B	
1831.1 [‡] 4		B	
1838.3 5		B	
1847.1 [‡] 4		B	
1848.6 5		B	
1853.6 [‡] 10		B	
1862.7 [‡] 10		B	
1874.6 [‡] 10		B	
1888.9 [‡] 5		B	
1892.6 [‡] 5		B	
1908.6 [‡] 6		B	
1915.3 4		B	
1921.2 [‡] 7		B	
1932.1 [‡] 7		B	
1935.1 [‡] 6		B	
1938.6 [‡] 7		B	
1949.0 [‡] 10		B	
1954.8 [‡] 5		B	

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Adopted Levels, Gammas (continued) ^{193}Os Levels (continued)

E(level) [†]	XREF	E(level) [†]	XREF	E(level) [†]	XREF	E(level) [†]	XREF
1977.4 [‡] 5	B	2220.1	B	2461.7 [‡] 6	B	2703.7 [‡] 5	B
1983.4 [‡] 5	B	2222.0 [‡] 7	B	2467.7 [‡] 4	B	2708.9 [‡] 7	B
1989.8 [‡] 10	B	2225.1 [‡] 7	B	2470.4 [‡] 7	B	2714.8 [‡] 7	B
2002.1 [‡] 4	B	2230.6 [‡] 7	B	2484.3 [‡] 6	B	2716.9 [‡] 10	B
2013.6 [‡] 4	B	2234.6 [‡] 10	B	2486.7 [‡] 10	B	2720.2 [‡] 4	B
2020.8 [‡] 7	B	2239.9 [‡] 10	B	2489.6 [‡] 5	B	2723.6 [‡] 7	B
2024.3 [‡] 10	B	2243.0 5	B	2495.0 [‡] 5	B	2728.2 [‡] 7	B
2037.4 [‡] 5	B	2246.3 [‡] 10	B	2499.7 [‡] 4	B	2732.1 [‡] 10	B
2039.9 [‡] 7	B	2249.1 [‡] 5	B	2503.5 [‡] 10	B	2734.3 [‡] 7	B
2048.1 5	B	2250.9 [‡] 7	B	2506.3 [‡] 10	B	2738.4 [‡] 6	B
2050.8 [‡] 6	B	2255.9 [‡] 7	B	2508.3 [‡] 4	B	2741.9 [‡] 5	B
2053.5 [‡] 10	B	2258.4 [‡] 7	B	2511.8 [‡] 4	B	2746.7 [‡] 10	B
2059.7 [‡] 10	B	2278.7 [‡] 6	B	2514.1 [‡] 5	B	2749.8 [‡] 6	B
2064.1 4	B	2285.4 [‡] 10	B	2519.2 [‡] 5	B	2752.9 [‡] 7	B
2067.6 [‡] 5	B	2290.5 [‡] 7	B	2528.4 [‡] 5	B	2758.2 [‡] 10	B
2077.0	B	2294.3 [‡] 10	B	2530.9 [‡] 10	B	2761.7 [‡] 10	B
2078.3 [‡] 4	B	2297.3 [‡] 6	B	2533.7 [‡] 7	B	2764.9 [‡] 10	B
2081.1 [‡] 4	B	2310.0 [‡] 6	B	2541.8 [‡] 4	B	2773.9 [‡] 5	B
2090.0	B	2315.9 [‡] 5	B	2548.2 [‡] 6	B	2779.4 [‡] 10	B
2092.9 [‡] 4	B	2320.5 [‡] 5	B	2551.3 [‡] 10	B	2782.1 [‡] 4	B
2098.0 4	B	2326.1 [‡] 5	B	2554.6 [‡] 7	B	2784.1 [‡] 7	B
2103.4 [‡] 7	B	2332.6 [‡] 7	B	2558.1 [‡] 7	B	2792.0 [‡] 6	B
2108.1 [‡] 10	B	2340.1 [‡] 10	B	2560.4 [‡] 5	B	2797.9 [‡] 5	B
2111.7 [‡] 7	B	2342.9 [‡] 7	B	2567.1 [‡] 4	B	2805.5 [‡] 5	B
2115.9 [‡] 10	B	2348.0 [‡] 5	B	2578.0 [‡] 10	B	2811.6 [‡] 7	B
2124.1 [‡] 7	B	2350.4 [‡] 10	B	2580.1 [‡] 4	B	2822.8 [‡] 10	B
2126.4 [‡] 7	B	2360.9 [‡] 10	B	2585.0 [‡] 7	B	2830.3 [‡] 7	B
2131.3	B	2364.2 [‡] 7	B	2597.4 [‡] 7	B	2834.3 [‡] 10	B
2133.0 [‡] 4	B	2368.0 [‡] 5	B	2602.8 [‡] 5	B	2856.3 [‡] 6	B
2134.2 [‡] 6	B	2373.1 [‡] 10	B	2606.9 [‡] 10	B	2863.8 [‡] 5	B
2143.5 [‡] 10	B	2381.0 [‡] 5	B	2611.3 [‡] 5	B	2870.0 [‡] 6	B
2150.6 [‡] 7	B	2389.1 [‡] 4	B	2614.7 [‡] 10	B	2875.8 [‡] 6	B
2153.8 [‡] 7	B	2396.3 [‡] 10	B	2629.3 [‡] 7	B	2880.0 [‡] 7	B
2157.1 [‡] 7	B	2407.0 [‡] 5	B	2632.3 [‡] 6	B	2887.0 [‡] 6	B
2163.7 [‡] 6	B	2414.0 [‡] 10	B	2637.8 [‡] 6	B	2904.1 [‡] 10	B
2168.7 [‡] 4	B	2421.0 [‡] 6	B	2656.6 [‡] 6	B	2909.0 [‡] 4	B
2178.1 [‡] 10	B	2426.8 [‡] 6	B	2661.8 [‡] 10	B	2913.3 [‡] 7	B
2181.3 [‡] 7	B	2431.3 [‡] 7	B	2671.4 [‡] 4	B	2918.0 [‡] 7	B
2185.4 [‡] 5	B	2432.8 [‡] 5	B	2679.6 [‡] 5	B	2972.4 [‡] 7	B
2190.0	B	2437.7 [‡] 10	B	2687.1 [‡] 7	B	2979.9 [‡] 7	B
2192.4 [‡] 6	B	2442.5 [‡] 10	B	2690.2 [‡] 7	B	2986.9 [‡] 10	B
2195.0 [‡] 5	B	2447.0 [‡] 7	B	2693.9 [‡] 7	B	3001.7 [‡] 7	B
2205.1 [‡] 7	B	2450.1 [‡] 7	B	2697.0 [‡] 5	B	3006.6 [‡] 5	B
2218.6 [‡] 5	B	2458.5 [‡] 7	B	2699.5 [‡] 4	B	3010.4 [‡] 7	B

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Adopted Levels, Gammas (continued) ^{193}Os Levels (continued)

[†] From least-squares fit to γ -ray energies, assuming $\Delta E_{\gamma}=0.5$ keV for missing γ -ray uncertainty. Intermediate levels from summed $\gamma\gamma$ cascade (primary+secondary) reported in 2002Ba66 identified by footnotes.

[‡] From summed $\gamma\gamma$ cascade (primary+secondary) (n, γ) E=thermal in 2002Ba66. Should be taken with caution because of random coincidence possibilities.

J^{π} 's for levels populated by primary gammas are limited to $1/2$, $3/2$, $5/2^{+}$ considering that transitions are dipole or E2 from $1/2^{+}$ capture state.

@ From intense population, suggesting E1 (or probable E1) multipolarity, by primary transition in average resonance capture ($1/2^{+}$ states).

& From γ -ray decay pattern, coupled with lack of population in average resonance capture and expectation of no positive-parity states below ≈ 1 MeV.

^a Band(A): $3/2(512)$ band.

^b Band(B): $1/2(510)$ band.

$\gamma(^{193}\text{Os})$								
$E_i(\text{level})$	J_i^{π}	$E_{\gamma}^{\dagger}$	$I_{\gamma}^{\dagger}$	E_f	J_f^{π}	Mult.	$\alpha^{\textcircled{a}}$	Comments
41.4844	(1/2 ⁻)	41.49 6	100	0.0	3/2 ⁻			
72.903	(5/2 ⁻)	(72.901)		0.0	3/2 ⁻			
102.7326	(3/2 ⁻)	102.733 1	100	0.0	3/2 ⁻			
233.8558	1/2 ⁻ , 3/2 ⁻	131.124 2	100.0 15	102.7326	(3/2 ⁻)			
		192.365 14	1.1 2	41.4844	(1/2 ⁻)			
		233.857 15	1.7 2	0.0	3/2 ⁻			
295.6812	(5/2 ⁻)	192.952 3	11 1	102.7326	(3/2 ⁻)			
		222.778 5	51.0 14	72.903	(5/2 ⁻)			
		254.193 4	100.0 19	41.4844	(1/2 ⁻)			
		295.676 3	64 1	0.0	3/2 ⁻			
307.0838	1/2 ⁻ , 3/2 ⁻	204.349 2	84.0 16	102.7326	(3/2 ⁻)			
		234.170 12	1.8 1	72.903	(5/2 ⁻)			
		265.601 2	100.0 7	41.4844	(1/2 ⁻)			
		307.083 3	18.9 4	0.0	3/2 ⁻			
315.6	(9/2 ⁻)	242.7 [‡] 3	100	72.903	(5/2 ⁻)	[E2]	0.176	B(E2)(W.u.)=0.071 17
399.018	(5/2 ⁻)	91.920 7	100 22	307.0838	1/2 ⁻ , 3/2 ⁻			
		165.23 ^{&} 3	<45 ^{&}	233.8558	1/2 ⁻ , 3/2 ⁻			
		326.117 5	89 4	72.903	(5/2 ⁻)			
		357.518 19	27 4	41.4844	(1/2 ⁻)			
		399.022 ^{&} 5	<447 ^{&}	0.0	3/2 ⁻			
434.9606	1/2 ⁻ , 3/2 ⁻	127.879 7	20 2	307.0838	1/2 ⁻ , 3/2 ⁻			
		201.105 2	100 2	233.8558	1/2 ⁻ , 3/2 ⁻			
		393.471 6	99.0 19	41.4844	(1/2 ⁻)			
		434.954 8	43.4 14	0.0	3/2 ⁻			
455.773	(5/2 ⁻)	148.689 7	40.3 25	307.0838	1/2 ⁻ , 3/2 ⁻			
		160.102 20	14.3 25	295.6812	(5/2 ⁻)			
		221.906 16	6.7 8	233.8558	1/2 ⁻ , 3/2 ⁻			
		353.042 11	16.8 17	102.7326	(3/2 ⁻)			
		382.862 8	78.2 25	72.903	(5/2 ⁻)			
		414.276 20	38.7 17	41.4844	(1/2 ⁻)			
		455.754 12	100.0 25	0.0	3/2 ⁻			
544.552	(5/2 ⁻ , 7/2 ⁻)	145.533 6	23 5	399.018	(5/2 ⁻)			
		237.473 5	83.7 23	307.0838	1/2 ⁻ , 3/2 ⁻			
		248.859 6	26.7 12	295.6812	(5/2 ⁻)			
		441.835 17	28 5	102.7326	(3/2 ⁻)			
		471.662 10	26 3	72.903	(5/2 ⁻)			
		544.53 3	100 3	0.0	3/2 ⁻			

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Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Os})$ (continued)					
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
550.9		448.17 [#]	100	102.7326	(3/2) ⁻
558.3		242.7 [‡] 3	100	315.6	(9/2) ⁻
573.2		266.12 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻
587.6		353.74 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻
675.2		572.47 [#]	76 24	102.7326	(3/2) ⁻
		633.72 [#]	100 24	41.4844	(1/2) ⁻
709.200	(5/2 ⁻ , 7/2 ⁻)	413.479 20	10.6 16	295.6812	(5/2) ⁻
		606.459 24	22 2	102.7326	(3/2) ⁻
		636.290 22	33.3 24	72.903	(5/2) ⁻
		709.231 16	100 4	0.0	3/2 ⁻
788.5		788.5 [#]	100	0.0	3/2 ⁻
867.7		309.4 [‡] 3	100	558.3	
888.624		785.96 4	100 5	102.7326	(3/2) ⁻
		815.66 6	23 3	72.903	(5/2) ⁻
		888.55 5	42 5	0.0	3/2 ⁻
889.462		582.400 24	21.7 13	307.0838	1/2 ⁻ , 3/2 ⁻
		655.614 15	19.8 13	233.8558	1/2 ⁻ , 3/2 ⁻
		786.764 11	85 3	102.7326	(3/2) ⁻
		816.63 5	15.3 13	72.903	(5/2) ⁻
		847.92 [#]		41.4844	(1/2) ⁻
		889.484 13	100 4	0.0	3/2 ⁻
904.8		346.5 [‡] 3	100	558.3	
966.9		567.88 [#]	79 21	399.018	(5/2) ⁻
		671.22 [#]	100 29	295.6812	(5/2) ⁻
970.5		412.2 [‡] 3	100	558.3	
1053.856	1/2 ⁻ , 3/2 ⁻	165.23 ^{&} 3	2.8 ^{&} 11	888.624	
		618.895 14	8.9 4	434.9606	1/2 ⁻ , 3/2 ⁻
		746.753 9	8.7 4	307.0838	1/2 ⁻ , 3/2 ⁻
		951.172 15	100 6	102.7326	(3/2) ⁻
		980.8 [#]		72.903	(5/2) ⁻
		1012.22 [#]		41.4844	(1/2) ⁻
		1053.7 [#]		0.0	3/2 ⁻
1085.385	(1/2 ⁻ , 3/2 ⁻)	788.82 [#]		295.6812	(5/2) ⁻
		982.26 4	100	102.7326	(3/2) ⁻
		1043.02 [#]		41.4844	(1/2) ⁻
1170.860	(1/2 ⁺ , 3/2 ⁺)	281.397 4	100 3	889.462	
		461.5 [#]		709.200	(5/2 ⁻ , 7/2 ⁻)
		714.93 [#]		455.773	(5/2) ⁻
		863.62 [#]		307.0838	1/2 ⁻ , 3/2 ⁻
		875.02 [#]		295.6812	(5/2) ⁻
		936.84 [#]		233.8558	1/2 ⁻ , 3/2 ⁻
		1067.97 [#]		102.7326	(3/2) ⁻
		1097.8 [#]		72.903	(5/2) ⁻
		1129.49 6	42 5	41.4844	(1/2) ⁻
		1170.7 [#]		0.0	3/2 ⁻
1178.655	1/2 ⁻ , 3/2 ⁻	722.65 4	100 10	455.773	(5/2) ⁻
		743.52 4	100 25	434.9606	1/2 ⁻ , 3/2 ⁻
		779.28 [#]		399.018	(5/2) ⁻
		871.22 [#]		307.0838	1/2 ⁻ , 3/2 ⁻

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Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Os})$ (continued)					
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
1178.655	1/2 ⁻ , 3/2 ⁻	1075.57 [#]		102.7326	(3/2) ⁻
		1105.4 [#]		72.903	(5/2) ⁻
		1136.82 [#]		41.4844	(1/2) ⁻
		1178.3 [#]		0.0	3/2 ⁻
1185.4		1082.67 [#]	100	102.7326	(3/2) ⁻
1195.9		328.2 [‡] 3	100	867.7	
1205.2		1102.47 [#]	100 6	102.7326	(3/2) ⁻
		1163.72 [#]	78 9	41.4844	(1/2) ⁻
1216.927	1/2 ⁽⁻⁾ , 3/2 ⁽⁻⁾	327.464 4	37.5 12	889.462	
		761.73 [#]		455.773	(5/2) ⁻
		818.48 [#]		399.018	(5/2) ⁻
		910.42 [#]		307.0838	1/2 ⁻ , 3/2 ⁻
		921.82 [#]		295.6812	(5/2) ⁻
		983.14 6	100 10	233.8558	1/2 ⁻ , 3/2 ⁻
		1114.77 [#]		102.7326	(3/2) ⁻
		1144.6 [#]		72.903	(5/2) ⁻
		1176.02 [#]		41.4844	(1/2) ⁻
		1217.5 [#]		0.0	3/2 ⁻
1225.7		769.93 [#]	100 10	455.773	(5/2) ⁻
		1152.8 [#]	4.5 13	72.903	(5/2) ⁻
		1184.22 [#]	5.8 13	41.4844	(1/2) ⁻
1244.6		788.83 [#]	100 10	455.773	(5/2) ⁻
		1203.12 [#]	24 10	41.4844	(1/2) ⁻
1267.3		1164.57 [#]	100	102.7326	(3/2) ⁻
1281.469	1/2 ⁻ , 3/2 ⁻	391.96 4	34 10	889.462	
		573.7 [#]		709.200	(5/2 ⁻ , 7/2 ⁻)
		825.702 20	100 6	455.773	(5/2) ⁻
		883.88 [#]		399.018	(5/2) ⁻
		987.22 [#]		295.6812	(5/2) ⁻
		1180.17 [#]		102.7326	(3/2) ⁻
		1210.0 [#]		72.903	(5/2) ⁻
		1241.42 [#]		41.4844	(1/2) ⁻
		1282.9 [#]		0.0	3/2 ⁻
1288.468	1/2 ⁻ , 3/2 ⁻	109.763 14	28 8	1178.655	1/2 ⁻ , 3/2 ⁻
		203.067 8	26 2	1085.385	(1/2 ⁻ , 3/2 ⁻)
		399.022 & 5	<402 &	889.462	
		579.4 [#]		709.200	(5/2 ⁻ , 7/2 ⁻)
		832.46 4	100 8	455.773	(5/2) ⁻
		889.58 [#]		399.018	(5/2) ⁻
		992.92 [#]		295.6812	(5/2) ⁻
		1185.87 [#]		102.7326	(3/2) ⁻
		1215.7 [#]		72.903	(5/2) ⁻
		1247.12 [#]		41.4844	(1/2) ⁻
		1288.6 [#]		0.0	3/2 ⁻
1333.5		877.73 [#]	6.5 27	455.773	(5/2) ⁻
		934.48 [#]	5.8 20	399.018	(5/2) ⁻

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{193}\text{Os})$ (continued)					
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
1333.5		1037.82 [#]	4.7 16	295.6812	(5/2 ⁻)
		1099.64 [#]	25 3	233.8558	1/2 ⁻ , 3/2 ⁻
		1230.77 [#]	100 4	102.7326	(3/2 ⁻)
		1260.6 [#]	3.8 9	72.903	(5/2 ⁻)
		1292.02 [#]	18.5 13	41.4844	(1/2 ⁻)
		1333.5 [#]	13.4 11	0.0	3/2 ⁻
1359.6		903.83 [#]	11.2 17	455.773	(5/2 ⁻)
		960.58 [#]	16.9 18	399.018	(5/2 ⁻)
		1052.52 [#]	7.7 7	307.0838	1/2 ⁻ , 3/2 ⁻
		1063.92 [#]	5.5 6	295.6812	(5/2 ⁻)
		1125.74 [#]	100 5	233.8558	1/2 ⁻ , 3/2 ⁻
		1256.87 [#]	12.7 12	102.7326	(3/2 ⁻)
		1286.7 [#]	4.1 5	72.903	(5/2 ⁻)
		1318.12 [#]	6.9 6	41.4844	(1/2 ⁻)
		1359.6 [#]	5.3 6	0.0	3/2 ⁻
		1383.6	1/2 ⁽⁻⁾ , 3/2 ⁽⁻⁾	1076.52 [#]	100
1386.0	1078.92 [#]	12.7 9		307.0838	1/2 ⁻ , 3/2 ⁻
1090.32 [#]	3.6 7	295.6812		(5/2 ⁻)	
1283.27 [#]	2.5 5	102.7326		(3/2 ⁻)	
1313.1 [#]	3.9 7	72.903		(5/2 ⁻)	
1344.52 [#]	18.6 12	41.4844		(1/2 ⁻)	
1386.0 [#]	100.0 24	0.0		3/2 ⁻	
1398.2	1325.3 [#]	46 7		72.903	(5/2 ⁻)
1398.2 [#]	100 12	0.0		3/2 ⁻	
1400.0	1092.92 [#]	22 3		307.0838	1/2 ⁻ , 3/2 ⁻
	1297.27 [#]	100 4	102.7326	(3/2 ⁻)	
	1358.52 [#]	8 3	41.4844	(1/2 ⁻)	
	1400.0 [#]	17 3	0.0	3/2 ⁻	
	1418.0	1122.32 [#]	33 8	295.6812	(5/2 ⁻)
	1345.1 [#]	68 8	72.903	(5/2 ⁻)	
	1376.52 [#]	24 8	41.4844	(1/2 ⁻)	
	1418.0 [#]	100 9	0.0	3/2 ⁻	
	1434.0	1434.0 [#]	100	0.0	3/2 ⁻
1446.5	5/2 ⁻ , 7/2 ⁻	1373.6 [#]	100	72.903	(5/2 ⁻)
1459.513		242.586 7	100 15	1216.927	1/2 ⁽⁻⁾ , 3/2 ⁽⁻⁾
405.67 4		4.6 12	1053.856	1/2 ⁻ , 3/2 ⁻	
1497.4		1497.4 [#]	100	0.0	3/2 ⁻
1504.1		1048.33 [#]	54 13	455.773	(5/2 ⁻)
1270.24 [#]		100 9	233.8558	1/2 ⁻ , 3/2 ⁻	
1401.37 [#]		36 9	102.7326	(3/2 ⁻)	
1504.1 [#]		34 7	0.0	3/2 ⁻	
1515.6		1/2 ⁻ , 3/2 ⁻	1059.83 [#]	30 5	455.773
	1116.58 [#]	42 6	399.018	(5/2 ⁻)	
	1208.52 [#]	100 6	307.0838	1/2 ⁻ , 3/2 ⁻	
	1219.92 [#]	27 4	295.6812	(5/2 ⁻)	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{193}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
1515.6	$1/2^-, 3/2^-$	1412.87 [#]	43 4	102.7326	$(3/2)^-$
		1474.12 [#]	26 3	41.4844	$(1/2)^-$
		1515.6 [#]	11 3	0.0	$3/2^-$
1523.5		1216.42 [#]	100 5	307.0838	$1/2^-, 3/2^-$
		1420.77 [#]	100 5	102.7326	$(3/2)^-$
		1482.02 [#]	32 3	41.4844	$(1/2)^-$
		1523.5 [#]	33 3	0.0	$3/2^-$
1530.3		1131.28 [#]	11 3	399.018	$(5/2)^-$
		1223.22 [#]	18.9 18	307.0838	$1/2^-, 3/2^-$
		1234.62 [#]	11.3 24	295.6812	$(5/2)^-$
		1427.57 [#]	100 4	102.7326	$(3/2)^-$
		1488.82 [#]	76 3	41.4844	$(1/2)^-$
1555.8		1248.72 [#]	58 10	307.0838	$1/2^-, 3/2^-$
		1514.32 [#]	100 10	41.4844	$(1/2)^-$
1590.9	$1/2^-, 3/2^-$	1283.82 [#]	63 5	307.0838	$1/2^-, 3/2^-$
		1295.22 [#]	21 3	295.6812	$(5/2)^-$
		1488.17 [#]	39 4	102.7326	$(3/2)^-$
		1518.0 [#]	22 2	72.903	$(5/2)^-$
		1549.42 [#]	18 2	41.4844	$(1/2)^-$
		1590.9 [#]	100 5	0.0	$3/2^-$
1603.2		1147.43 [#]	23.1 21	455.773	$(5/2)^-$
		1204.18 [#]	31.6 24	399.018	$(5/2)^-$
		1296.12 [#]	40.5 24	307.0838	$1/2^-, 3/2^-$
		1307.52 [#]	26.5 15	295.6812	$(5/2)^-$
		1369.34 [#]	4.3 9	233.8558	$1/2^-, 3/2^-$
		1500.47 [#]	90.9 25	102.7326	$(3/2)^-$
		1530.3 [#]	3.4 8	72.903	$(5/2)^-$
		1561.72 [#]	100.0 25	41.4844	$(1/2)^-$
		1603.2 [#]	6.9 9	0.0	$3/2^-$
1660.3		1618.82 [#]	100	41.4844	$(1/2)^-$
1680.3		1373.22 [#]	100	307.0838	$1/2^-, 3/2^-$
1683.3		974.1 [#]	9.44 14	709.200	$(5/2^-, 7/2^-)$
		1376.22 [#]	16.18 20	307.0838	$1/2^-, 3/2^-$
		1387.62 [#]	31.0 20	295.6812	$(5/2)^-$
		1449.44 [#]	57 3	233.8558	$1/2^-, 3/2^-$
		1580.57 [#]	100 3	102.7326	$(3/2)^-$
		1610.4 [#]	4.7 11	72.903	$(5/2)^-$
		1641.82 [#]	79 3	41.4844	$(1/2)^-$
		1683.3 [#]	20 2	0.0	$3/2^-$
		1426.82 [#]	95 32	295.6812	$(5/2)^-$
		1619.77 [#]	89 32	102.7326	$(3/2)^-$
1722.5		1722.5 [#]	100 26	0.0	$3/2^-$
		842.12 [#]	100	889.462	
		1634.87 [#]	100	102.7326	$(3/2)^-$
1731.6		842.12 [#]	100	889.462	
1737.6		1634.87 [#]	100	102.7326	$(3/2)^-$
1744.9		1289.13 [#]	100 31	455.773	$(5/2)^-$

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{193}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
1744.9		1672.0 [#]	100 31	72.903	(5/2) ⁻	1847.1		1744.37 [#]	100 10	102.7326	(3/2) ⁻
1754.2		1520.34 [#]	100 25	233.8558	1/2 ⁻ , 3/2 ⁻			1774.2 [#]	30 6	72.903	(5/2) ⁻
		1754.2 [#]	100 31	0.0	3/2 ⁻			1805.62 [#]	81 8	41.4844	(1/2) ⁻
1760.4		1526.54 [#]	30 9	233.8558	1/2 ⁻ , 3/2 ⁻			1847.1 [#]	33 8	0.0	3/2 ⁻
		1657.67 [#]	100 17	102.7326	(3/2) ⁻	1853.6		1619.74 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻
1765.1		1055.9 [#]	21 5	709.200	(5/2 ⁻ , 7/2 ⁻)	1862.7		1759.97 [#]	100	102.7326	(3/2) ⁻
		1309.33 [#]	41 4	455.773	(5/2) ⁻	1874.6		1874.6 [#]	100	0.0	3/2 ⁻
		1366.08 [#]	48 4	399.018	(5/2) ⁻	1888.9		1179.7 [#]	100 24	709.200	(5/2 ⁻ , 7/2 ⁻)
		1458.02 [#]	100 7	307.0838	1/2 ⁻ , 3/2 ⁻			1489.88 [#]	65 14	399.018	(5/2) ⁻
		1531.24 [#]	87 5	233.8558	1/2 ⁻ , 3/2 ⁻			1786.17 [#]	86 22	102.7326	(3/2) ⁻
		1662.37 [#]	92 7	102.7326	(3/2) ⁻			1816.0 [#]	78 14	72.903	(5/2) ⁻
		1692.2 [#]	23 4	72.903	(5/2) ⁻	1892.6		1436.83 [#]	53 15	455.773	(5/2) ⁻
		1723.62 [#]	63 5	41.4844	(1/2) ⁻			1819.7 [#]	100 13	72.903	(5/2) ⁻
1783.8		1328.03 [#]	23 4	455.773	(5/2) ⁻			1851.12 [#]	100 13	41.4844	(1/2) ⁻
		1384.78 [#]	27 4	399.018	(5/2) ⁻			1892.6 [#]	63 25	0.0	3/2 ⁻
		1476.72 [#]	27 5	307.0838	1/2 ⁻ , 3/2 ⁻	1908.6		1452.83 [#]	78 19	455.773	(5/2) ⁻
		1488.12 [#]	19 4	295.6812	(5/2) ⁻			1509.58 [#]	100 19	399.018	(5/2) ⁻
		1549.94 [#]	100 5	233.8558	1/2 ⁻ , 3/2 ⁻			1867.12 [#]	47 16	41.4844	(1/2) ⁻
		1710.9 [#]	26 4	72.903	(5/2) ⁻	1915.3		1459.53 [#]	5.3 14	455.773	(5/2) ⁻
		1742.32 [#]	87 5	41.4844	(1/2) ⁻			1516.28 [#]	4.6 14	399.018	(5/2) ⁻
		1783.8 [#]	50 5	0.0	3/2 ⁻			1608.22 [#]	100 4	307.0838	1/2 ⁻ , 3/2 ⁻
1795.8		1561.94 [#]	90 19	233.8558	1/2 ⁻ , 3/2 ⁻			1681.44 [#]	70.7 24	233.8558	1/2 ⁻ , 3/2 ⁻
		1693.07 [#]	100 29	102.7326	(3/2) ⁻			1812.57 [#]	7.2 14	102.7326	(3/2) ⁻
1798.9		1565.04 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻			1873.82 [#]	99 3	41.4844	(1/2) ⁻
1802.0		1760.52 [#]	100	41.4844	(1/2) ⁻			1915.3 [#]	7.0 24	0.0	3/2 ⁻
1805.1		1805.1 [#]	100	0.0	3/2 ⁻	1921.2		1818.47 [#]	100 20	102.7326	(3/2) ⁻
1826.7		1753.8 [#]	78 28	72.903	(5/2) ⁻			1848.3 [#]	43 17	72.903	(5/2) ⁻
		1826.7 [#]	100 28	0.0	3/2 ⁻	1932.1		1859.2 [#]	100 6	72.903	(5/2) ⁻
1831.1		1375.33 [#]	59 14	455.773	(5/2) ⁻			1890.62 [#]	31 6	41.4844	(1/2) ⁻
		1432.08 [#]	54 11	399.018	(5/2) ⁻	1935.1		1536.08 [#]	28 6	399.018	(5/2) ⁻
		1524.02 [#]	48 16	307.0838	1/2 ⁻ , 3/2 ⁻			1832.37 [#]	100 7	102.7326	(3/2) ⁻
		1535.42 [#]	73 14	295.6812	(5/2) ⁻			1935.1 [#]	28 12	0.0	3/2 ⁻
		1597.24 [#]	100 11	233.8558	1/2 ⁻ , 3/2 ⁻	1938.6		1897.12 [#]	15.0 16	41.4844	(1/2) ⁻
		1758.2 [#]	86 14	72.903	(5/2) ⁻			1938.6 [#]	100 7	0.0	3/2 ⁻
		1789.62 [#]	100 14	41.4844	(1/2) ⁻	1949.0		1641.92 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻
		1831.1 [#]	78 14	0.0	3/2 ⁻	1954.8		1499.03 [#]	4.8 14	455.773	(5/2) ⁻
1838.3		1129.1 [#]	12.8 23	709.200	(5/2 ⁻ , 7/2 ⁻)			1647.72 [#]	4.5 17	307.0838	1/2 ⁻ , 3/2 ⁻
		1531.22 [#]	100 4	307.0838	1/2 ⁻ , 3/2 ⁻			1720.94 [#]	6.2 11	233.8558	1/2 ⁻ , 3/2 ⁻
		1604.44 [#]	18.3 13	233.8558	1/2 ⁻ , 3/2 ⁻			1852.07 [#]	100 3	102.7326	(3/2) ⁻
		1735.57 [#]	6.3 15	102.7326	(3/2) ⁻	1977.4		1087.92 [#]	50 9	889.462	
		1765.4 [#]	5.3 13	72.903	(5/2) ⁻			1578.38 [#]	20 5	399.018	(5/2) ⁻
1847.1		1137.9 [#]	59 11	709.200	(5/2 ⁻ , 7/2 ⁻)			1670.32 [#]	100 7	307.0838	1/2 ⁻ , 3/2 ⁻
		1448.08 [#]	91 6	399.018	(5/2) ⁻			1743.54 [#]	28 4	233.8558	1/2 ⁻ , 3/2 ⁻
		1540.02 [#]	35 8	307.0838	1/2 ⁻ , 3/2 ⁻			1935.92 [#]	35 5	41.4844	(1/2) ⁻
		1551.42 [#]	24 6	295.6812	(5/2) ⁻	1983.4		1687.72 [#]	13 4	295.6812	(5/2) ⁻

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Adopted Levels, Gammas (continued) $\gamma(^{193}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
1983.4		1749.54 [#]	9 3	233.8558	1/2 ⁻ , 3/2 ⁻	2067.6		1833.74 [#]	100 7	233.8558	1/2 ⁻ , 3/2 ⁻
		1880.67 [#]	44 4	102.7326	(3/2) ⁻			2067.6 [#]	37 6	0.0	3/2 ⁻
		1910.5 [#]	42 3	72.903	(5/2) ⁻	2078.3		1188.82 [#]	11 3	889.462	
		1983.4 [#]	100 10	0.0	3/2 ⁻			1369.1 [#]	9 2	709.200	(5/2 ⁻ , 7/2 ⁻)
1989.8		1755.94 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻			1622.53 [#]	15 2	455.773	(5/2) ⁻
2002.1		1603.08 [#]	12 3	399.018	(5/2) ⁻			1679.28 [#]	9.2 17	399.018	(5/2) ⁻
		1695.02 [#]	19 3	307.0838	1/2 ⁻ , 3/2 ⁻			1771.22 [#]	39 2	307.0838	1/2 ⁻ , 3/2 ⁻
		1706.42 [#]	19 3	295.6812	(5/2) ⁻			1782.62 [#]	7 2	295.6812	(5/2) ⁻
		1768.24 [#]	23 3	233.8558	1/2 ⁻ , 3/2 ⁻			1844.44 [#]	18 2	233.8558	1/2 ⁻ , 3/2 ⁻
		1929.2 [#]	41 3	72.903	(5/2) ⁻			2005.4 [#]	11 2	72.903	(5/2) ⁻
		1960.62 [#]	100 5	41.4844	(1/2) ⁻			2036.82 [#]	100 4	41.4844	(1/2) ⁻
2013.6		1124.12 [#]	76 8	889.462				2078.3 [#]	13 2	0.0	3/2 ⁻
		1557.83 [#]	14 5	455.773	(5/2) ⁻	2081.1		1625.33 [#]	46 11	455.773	(5/2) ⁻
		1706.52 [#]	41 5	307.0838	1/2 ⁻ , 3/2 ⁻			1682.08 [#]	96 11	399.018	(5/2) ⁻
		1779.74 [#]	12 3	233.8558	1/2 ⁻ , 3/2 ⁻			1774.02 [#]	65 9	307.0838	1/2 ⁻ , 3/2 ⁻
		1910.87 [#]	26 5	102.7326	(3/2) ⁻			1785.42 [#]	50 11	295.6812	(5/2) ⁻
		1972.12 [#]	100 7	41.4844	(1/2) ⁻			1978.37 [#]	78 15	102.7326	(3/2) ⁻
2020.8		1713.72 [#]	95 27	307.0838	1/2 ⁻ , 3/2 ⁻			2008.2 [#]	100 9	72.903	(5/2) ⁻
		1786.94 [#]	100 18	233.8558	1/2 ⁻ , 3/2 ⁻	2092.9		1203.42 [#]	25 7	889.462	
2024.3		1982.82 [#]	100	41.4844	(1/2) ⁻			1693.88 [#]	100 6	399.018	(5/2) ⁻
2037.4		1581.63 [#]	100 20	455.773	(5/2) ⁻			1797.22 [#]	34 5	295.6812	(5/2) ⁻
		1730.32 [#]	60 17	307.0838	1/2 ⁻ , 3/2 ⁻			1859.04 [#]	29 5	233.8558	1/2 ⁻ , 3/2 ⁻
		1741.72 [#]	73 20	295.6812	(5/2) ⁻			1990.17 [#]	34 7	102.7326	(3/2) ⁻
		1803.54 [#]	100 17	233.8558	1/2 ⁻ , 3/2 ⁻			2020.0 [#]	20 5	72.903	(5/2) ⁻
2039.9		1732.82 [#]	49 12	307.0838	1/2 ⁻ , 3/2 ⁻			2092.9 [#]	18 5	0.0	3/2 ⁻
		2039.9 [#]	100 12	0.0	3/2 ⁻	2098.0		1208.52 [#]	96 17	889.462	
2048.1		1741.02 [#]	28 4	307.0838	1/2 ⁻ , 3/2 ⁻			1388.8 [#]	100 15	709.200	(5/2 ⁻ , 7/2 ⁻)
		1814.24 [#]	35 4	233.8558	1/2 ⁻ , 3/2 ⁻			1790.92 [#]	42 10	307.0838	1/2 ⁻ , 3/2 ⁻
		1945.37 [#]	35 6	102.7326	(3/2) ⁻			1802.32 [#]	49 13	295.6812	(5/2) ⁻
		2048.1 [#]	100 6	0.0	3/2 ⁻			1864.14 [#]	96 11	233.8558	1/2 ⁻ , 3/2 ⁻
2050.8		1651.78 [#]	100 11	399.018	(5/2) ⁻			1995.27 [#]	45 17	102.7326	(3/2) ⁻
		1755.12 [#]	100 13	295.6812	(5/2) ⁻			2056.52 [#]	45 13	41.4844	(1/2) ⁻
		1816.94 [#]	50 11	233.8558	1/2 ⁻ , 3/2 ⁻			2098.0 [#]	51 11	0.0	3/2 ⁻
2053.5		1950.77 [#]	100	102.7326	(3/2) ⁻	2103.4		1807.72 [#]	100 33	295.6812	(5/2) ⁻
2059.7		2018.22 [#]	100	41.4844	(1/2) ⁻			2061.92 [#]	100 33	41.4844	(1/2) ⁻
2064.1		1354.9 [#]	20 7	709.200	(5/2 ⁻ , 7/2 ⁻)	2108.1		1874.24 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻
		1608.33 [#]	51 6	455.773	(5/2) ⁻	2111.7		1222.22 [#]	100 23	889.462	
		1665.08 [#]	61 6	399.018	(5/2) ⁻			2111.7 [#]	71 15	0.0	3/2 ⁻
		1757.02 [#]	55 5	307.0838	1/2 ⁻ , 3/2 ⁻	2115.9		2074.42 [#]	100	41.4844	(1/2) ⁻
		1961.37 [#]	100 10	102.7326	(3/2) ⁻	2124.1		1890.24 [#]	48 9	233.8558	1/2 ⁻ , 3/2 ⁻
		1991.2 [#]	78 6	72.903	(5/2) ⁻			2021.37 [#]	100 17	102.7326	(3/2) ⁻
		2022.62 [#]	53 7	41.4844	(1/2) ⁻	2126.4		1819.32 [#]	100 16	307.0838	1/2 ⁻ , 3/2 ⁻
		2064.1 [#]	40 5	0.0	3/2 ⁻			2084.92 [#]	100 19	41.4844	(1/2) ⁻
2067.6		1178.12 [#]	63 10	889.462		2133.0		1243.52 [#]	100 5	889.462	
		1760.52 [#]	52 6	307.0838	1/2 ⁻ , 3/2 ⁻			1677.23 [#]	32 4	455.773	(5/2) ⁻

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{193}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
2133.0		1733.98 [#]	22 3	399.018	(5/2) ⁻	2222.0		2222.0 [#]	58 21	0.0	3/2 ⁻
		1837.32 [#]	22 3	295.6812	(5/2) ⁻	2225.1		1929.42 [#]	10 2	295.6812	(5/2) ⁻
		1899.14 [#]	32 4	233.8558	1/2 ⁻ , 3/2 ⁻			2183.62 [#]	100 5	41.4844	(1/2) ⁻
		2030.27 [#]	10 4	102.7326	(3/2) ⁻	2230.6		2127.87 [#]	100 14	102.7326	(3/2) ⁻
		2133.0 [#]	18 3	0.0	3/2 ⁻			2230.6 [#]	55 12	0.0	3/2 ⁻
2134.2		1827.12 [#]	100 7	307.0838	1/2 ⁻ , 3/2 ⁻	2234.6		2234.6 [#]	100	0.0	3/2 ⁻
		1900.34 [#]	56 7	233.8558	1/2 ⁻ , 3/2 ⁻	2239.9		2198.42 [#]	100	41.4844	(1/2) ⁻
		2134.2 [#]	24 6	0.0	3/2 ⁻	2246.3		2204.82 [#]	100	41.4844	(1/2) ⁻
2143.5		2040.77 [#]	100	102.7326	(3/2) ⁻	2249.1		1359.62 [#]	15 3	889.462	
2150.6		1854.92 [#]	100 22	295.6812	(5/2) ⁻			1850.08 [#]	23 2	399.018	(5/2) ⁻
		2109.12 [#]	78 30	41.4844	(1/2) ⁻			1942.02 [#]	100 66	307.0838	1/2 ⁻ , 3/2 ⁻
2153.8		1858.12 [#]	64 8	295.6812	(5/2) ⁻			2146.37 [#]	18 2	102.7326	(3/2) ⁻
		2051.07 [#]	100 13	102.7326	(3/2) ⁻			2176.2 [#]	40 2	72.903	(5/2) ⁻
2157.1		1850.02 [#]	93 17	307.0838	1/2 ⁻ , 3/2 ⁻	2250.9		2209.42 [#]	4.7 10	41.4844	(1/2) ⁻
		2157.1 [#]	100 17	0.0	3/2 ⁻			2250.9 [#]	100 5	0.0	3/2 ⁻
2163.7		1707.93 [#]	50 14	455.773	(5/2) ⁻	2255.9		1948.82 [#]	100 35	307.0838	1/2 ⁻ , 3/2 ⁻
		1929.84 [#]	62 10	233.8558	1/2 ⁻ , 3/2 ⁻			2153.17 [#]	68 19	102.7326	(3/2) ⁻
		2090.8 [#]	100 12	72.903	(5/2) ⁻	2258.4		1859.38 [#]	92 21	399.018	(5/2) ⁻
2168.7		1769.68 [#]	26 3	399.018	(5/2) ⁻			2258.4 [#]	100 38	0.0	3/2 ⁻
		1861.62 [#]	14 3	307.0838	1/2 ⁻ , 3/2 ⁻	2278.7		1983.02 [#]	71 21	295.6812	(5/2) ⁻
		1873.02 [#]	12 3	295.6812	(5/2) ⁻			2175.97 [#]	75 21	102.7326	(3/2) ⁻
		2065.97 [#]	9 3	102.7326	(3/2) ⁻			2205.8 [#]	100 18	72.903	(5/2) ⁻
		2127.22 [#]	100 6	41.4844	(1/2) ⁻	2285.4		2182.67 [#]	100	102.7326	(3/2) ⁻
		2168.7 [#]	59 4	0.0	3/2 ⁻	2290.5		2249.02 [#]	100 15	41.4844	(1/2) ⁻
2178.1		1288.62 [#]	100	889.462				2290.5 [#]	61 24	0.0	3/2 ⁻
2181.3		2108.4 [#]	34 9	72.903	(5/2) ⁻	2294.3		2294.3 [#]	100	0.0	3/2 ⁻
		2139.82 [#]	100 13	41.4844	(1/2) ⁻	2297.3		2194.57 [#]	52 18	102.7326	(3/2) ⁻
2185.4		1295.92 [#]	33 8	889.462				2224.4 [#]	100 15	72.903	(5/2) ⁻
		1878.32 [#]	16 8	307.0838	1/2 ⁻ , 3/2 ⁻			2255.82 [#]	97 15	41.4844	(1/2) ⁻
		2082.67 [#]	100 7	102.7326	(3/2) ⁻	2310.0		2076.14 [#]	67 31	233.8558	1/2 ⁻ , 3/2 ⁻
		2143.92 [#]	12 4	41.4844	(1/2) ⁻			2268.52 [#]	87 10	41.4844	(1/2) ⁻
2192.4		1483.2 [#]	37 10	709.200	(5/2 ⁻ , 7/2 ⁻)			2310.0 [#]	100 27	0.0	3/2 ⁻
		2089.67 [#]	100 10	102.7326	(3/2) ⁻	2315.9		1860.13 [#]	100 13	455.773	(5/2) ⁻
		2150.92 [#]	81 9	41.4844	(1/2) ⁻			2008.82 [#]	31 13	307.0838	1/2 ⁻ , 3/2 ⁻
2195.0		1305.52 [#]	38 5	889.462				2020.22 [#]	34 9	295.6812	(5/2) ⁻
		1795.98 [#]	7 2	399.018	(5/2) ⁻			2274.42 [#]	88 8	41.4844	(1/2) ⁻
		1887.92 [#]	100 9	307.0838	1/2 ⁻ , 3/2 ⁻			2315.9 [#]	41 14	0.0	3/2 ⁻
		2092.27 [#]	21 4	102.7326	(3/2) ⁻	2320.5		2024.82 [#]	19 6	295.6812	(5/2) ⁻
2205.1		1806.08 [#]	45 13	399.018	(5/2) ⁻			2086.64 [#]	73 7	233.8558	1/2 ⁻ , 3/2 ⁻
		2102.37 [#]	100 15	102.7326	(3/2) ⁻			2217.77 [#]	71 6	102.7326	(3/2) ⁻
2218.6		1819.58 [#]	19 7	399.018	(5/2) ⁻			2320.5 [#]	100 12	0.0	3/2 ⁻
		1922.92 [#]	45 7	295.6812	(5/2) ⁻	2326.1		2030.42 [#]	9 2	295.6812	(5/2) ⁻
		1984.74 [#]	100 8	233.8558	1/2 ⁻ , 3/2 ⁻			2223.37 [#]	100 4	102.7326	(3/2) ⁻
		2218.6 [#]	41 7	0.0	3/2 ⁻			2284.62 [#]	16 2	41.4844	(1/2) ⁻
2222.0		1988.14 [#]	100 21	233.8558	1/2 ⁻ , 3/2 ⁻			2326.1	23 3	0.0	3/2 ⁻

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Adopted Levels, Gammas (continued) $\gamma(^{193}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
2332.6		2229.87 [#]	100 35	102.7326	(3/2) ⁻	2431.3		2431.3 [#]	51 6	0.0	3/2 ⁻
		2291.12 [#]	94 29	41.4844	(1/2) ⁻	2432.8		2033.78 [#]	12 3	399.018	(5/2) ⁻
2340.1		2298.62 [#]	100	41.4844	(1/2) ⁻			2125.72 [#]	24 6	307.0838	1/2 ⁻ , 3/2 ⁻
2342.9		2240.17 [#]	100 11	102.7326	(3/2) ⁻			2330.07 [#]	12 5	102.7326	(3/2) ⁻
		2301.42 [#]	53 9	41.4844	(1/2) ⁻			2391.32 [#]	100 6	41.4844	(1/2) ⁻
2348.0		2114.14 [#]	26 5	233.8558	1/2 ⁻ , 3/2 ⁻			2432.8 [#]	12 3	0.0	3/2 ⁻
		2245.27 [#]	50 5	102.7326	(3/2) ⁻	2437.7		2396.22 [#]	100	41.4844	(1/2) ⁻
		2306.52 [#]	100 5	41.4844	(1/2) ⁻	2442.5		2442.5 [#]	100	0.0	3/2 ⁻
		2348.0 [#]	29 5	0.0	3/2 ⁻	2447.0		2151.32 [#]	37 12	295.6812	(5/2) ⁻
2350.4		2043.32 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻			2405.52 [#]	100 12	41.4844	(1/2) ⁻
2360.9		2127.04 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻	2450.1		2347.37 [#]	100 32	102.7326	(3/2) ⁻
2364.2		2261.47 [#]	100 24	102.7326	(3/2) ⁻			2377.2 [#]	79 26	72.903	(5/2) ⁻
		2364.2 [#]	96 20	0.0	3/2 ⁻	2458.5		2151.42 [#]	63 22	307.0838	1/2 ⁻ , 3/2 ⁻
2368.0		1478.52 [#]	37 5	889.462				2355.77 [#]	100 22	102.7326	(3/2) ⁻
		2060.92 [#]	11 5	307.0838	1/2 ⁻ , 3/2 ⁻	2461.7		2154.62 [#]	28 5	307.0838	1/2 ⁻ , 3/2 ⁻
		2134.14 [#]	100 6	233.8558	1/2 ⁻ , 3/2 ⁻			2227.84 [#]	100 6	233.8558	1/2 ⁻ , 3/2 ⁻
		2265.27 [#]	54 5	102.7326	(3/2) ⁻			2461.7 [#]	25 5	0.0	3/2 ⁻
		2326.52 [#]	30 3	41.4844	(1/2) ⁻	2467.7		2011.93 [#]	48 19	455.773	(5/2) ⁻
2373.1		2373.1 [#]	100	0.0	3/2 ⁻			2068.68 [#]	38 10	399.018	(5/2) ⁻
2381.0		1491.52 [#]	77 19	889.462				2160.62 [#]	37 12	307.0838	1/2 ⁻ , 3/2 ⁻
		2073.92 [#]	47 19	307.0838	1/2 ⁻ , 3/2 ⁻			2233.84 [#]	42 10	233.8558	1/2 ⁻ , 3/2 ⁻
		2308.1 [#]	44 12	72.903	(5/2) ⁻			2364.97 [#]	40 12	102.7326	(3/2) ⁻
		2381.0 [#]	100 12	0.0	3/2 ⁻			2426.22 [#]	100 12	41.4844	(1/2) ⁻
2389.1		1499.62 [#]	42 5	889.462		2470.4		2163.32 [#]	100 24	307.0838	1/2 ⁻ , 3/2 ⁻
		1933.33 [#]	18 7	455.773	(5/2) ⁻			2470.4 [#]	100 32	0.0	3/2 ⁻
		1990.08 [#]	14 6	399.018	(5/2) ⁻	2484.3		2250.44 [#]	61 9	233.8558	1/2 ⁻ , 3/2 ⁻
		2093.42 [#]	15 4	295.6812	(5/2) ⁻			2381.57 [#]	40 11	102.7326	(3/2) ⁻
		2155.24 [#]	13 3	233.8558	1/2 ⁻ , 3/2 ⁻			2442.82 [#]	100 11	41.4844	(1/2) ⁻
		2286.37 [#]	36 4	102.7326	(3/2) ⁻	2486.7		2179.62 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻
		2347.62 [#]	17 4	41.4844	(1/2) ⁻	2489.6		2090.58 [#]	75 11	399.018	(5/2) ⁻
		2389.1 [#]	100 7	0.0	3/2 ⁻			2182.52 [#]	55 14	307.0838	1/2 ⁻ , 3/2 ⁻
2396.3		2396.3 [#]	100	0.0	3/2 ⁻			2386.87 [#]	48 18	102.7326	(3/2) ⁻
2407.0		2007.98 [#]	39 11	399.018	(5/2) ⁻			2489.6 [#]	100 14	0.0	3/2 ⁻
		2111.32 [#]	51 9	295.6812	(5/2) ⁻	2495.0		2039.23 [#]	90 10	455.773	(5/2) ⁻
		2304.27 [#]	100 10	102.7326	(3/2) ⁻			2187.92 [#]	34 7	307.0838	1/2 ⁻ , 3/2 ⁻
		2365.52 [#]	90 8	41.4844	(1/2) ⁻			2261.14 [#]	21 7	233.8558	1/2 ⁻ , 3/2 ⁻
		2407.0 [#]	30 6	0.0	3/2 ⁻			2422.1 [#]	100 7	72.903	(5/2) ⁻
2414.0		2372.52 [#]	100	41.4844	(1/2) ⁻	2499.7		2204.02 [#]	66 8	295.6812	(5/2) ⁻
2421.0		1531.52 [#]	60 13	889.462				2265.84 [#]	32 6	233.8558	1/2 ⁻ , 3/2 ⁻
		2021.98 [#]	24 7	399.018	(5/2) ⁻			2396.97 [#]	27 10	102.7326	(3/2) ⁻
		2379.52 [#]	100 10	41.4844	(1/2) ⁻			2426.8 [#]	35 6	72.903	(5/2) ⁻
2426.8		2192.94 [#]	31 9	233.8558	1/2 ⁻ , 3/2 ⁻			2458.22 [#]	100 19	41.4844	(1/2) ⁻
		2324.07 [#]	65 11	102.7326	(3/2) ⁻			2499.7 [#]	35 8	0.0	3/2 ⁻
		2426.8 [#]	100 11	0.0	3/2 ⁻	2503.5		2503.5 [#]	100	0.0	3/2 ⁻
2431.3		2328.57 [#]	100 11	102.7326	(3/2) ⁻	2506.3		2433.4 [#]	100	72.903	(5/2) ⁻

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Adopted Levels, Gammas (continued) $\gamma(^{193}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
2508.3		2052.53 [#]	53 7	455.773	(5/2) ⁻	2560.4		2326.54 [#]	88 13	233.8558	1/2 ⁻ , 3/2 ⁻
		2109.28 [#]	24 6	399.018	(5/2) ⁻			2457.67 [#]	75 20	102.7326	(3/2) ⁻
		2201.22 [#]	27 6	307.0838	1/2 ⁻ , 3/2 ⁻			2487.5 [#]	75 13	72.903	(5/2) ⁻
		2274.44 [#]	88 7	233.8558	1/2 ⁻ , 3/2 ⁻	2567.1		2111.33 [#]	67 9	455.773	(5/2) ⁻
		2405.57 [#]	33 10	102.7326	(3/2) ⁻			2168.08 [#]	49 9	399.018	(5/2) ⁻
		2466.82 [#]	41 8	41.4844	(1/2) ⁻			2260.02 [#]	60 9	307.0838	1/2 ⁻ , 3/2 ⁻
		2508.3 [#]	100 10	0.0	3/2 ⁻			2494.2 [#]	81 9	72.903	(5/2) ⁻
2511.8		2056.03 [#]	33 7	455.773	(5/2) ⁻			2525.62 [#]	57 9	41.4844	(1/2) ⁻
		2112.78 [#]	100 7	399.018	(5/2) ⁻			2567.1 [#]	100 13	0.0	3/2 ⁻
		2204.72 [#]	27 7	307.0838	1/2 ⁻ , 3/2 ⁻	2578.0		2344.14 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻
		2409.07 [#]	81 12	102.7326	(3/2) ⁻	2580.1		2124.33 [#]	23 4	455.773	(5/2) ⁻
		2438.9 [#]	47 6	72.903	(5/2) ⁻			2284.42 [#]	15 4	295.6812	(5/2) ⁻
		2511.8 [#]	36 7	0.0	3/2 ⁻			2346.24 [#]	33 6	233.8558	1/2 ⁻ , 3/2 ⁻
2514.1		2207.02 [#]	69 15	307.0838	1/2 ⁻ , 3/2 ⁻			2477.37 [#]	100 6	102.7326	(3/2) ⁻
		2218.42 [#]	51 15	295.6812	(5/2) ⁻			2507.2 [#]	28 3	72.903	(5/2) ⁻
		2280.24 [#]	100 13	233.8558	1/2 ⁻ , 3/2 ⁻			2538.62 [#]	20 4	41.4844	(1/2) ⁻
		2472.62 [#]	59 18	41.4844	(1/2) ⁻	2585.0		2543.52 [#]	100 2	41.4844	(1/2) ⁻
		2514.1 [#]	67 15	0.0	3/2 ⁻			2585.0 [#]	60 2	0.0	3/2 ⁻
2519.2		2063.43 [#]	100 17	455.773	(5/2) ⁻	2597.4		2363.54 [#]	28 7	233.8558	1/2 ⁻ , 3/2 ⁻
		2416.47 [#]	97 23	102.7326	(3/2) ⁻			2597.4 [#]	100 13	0.0	3/2 ⁻
		2446.3 [#]	51 14	72.903	(5/2) ⁻	2602.8		2147.03 [#]	51 14	455.773	(5/2) ⁻
		2477.72 [#]	91 20	41.4844	(1/2) ⁻			2203.78 [#]	65 14	399.018	(5/2) ⁻
		2519.2 [#]	91 17	0.0	3/2 ⁻			2529.9 [#]	100 12	72.903	(5/2) ⁻
2528.4		2072.63 [#]	87 20	455.773	(5/2) ⁻			2561.32 [#]	67 16	41.4844	(1/2) ⁻
		2425.67 [#]	63 27	102.7326	(3/2) ⁻			2602.8 [#]	49 14	0.0	3/2 ⁻
		2455.5 [#]	100 17	72.903	(5/2) ⁻	2606.9		2504.17 [#]	100	102.7326	(3/2) ⁻
		2528.4 [#]	50 20	0.0	3/2 ⁻	2611.3		1902.1 [#]	13 3	709.200	(5/2 ⁻ , 7/2 ⁻)
2530.9		2223.82 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻			2315.62 [#]	21 3	295.6812	(5/2) ⁻
2533.7		2299.84 [#]	55 5	233.8558	1/2 ⁻ , 3/2 ⁻			2508.57 [#]	21 3	102.7326	(3/2) ⁻
		2533.7 [#]	100 9	0.0	3/2 ⁻			2569.82 [#]	100 6	41.4844	(1/2) ⁻
2541.8		2086.03 [#]	67 8	455.773	(5/2) ⁻			2611.3 [#]	9 3	0.0	3/2 ⁻
		2234.72 [#]	67 8	307.0838	1/2 ⁻ , 3/2 ⁻	2614.7		2380.84 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻
		2307.94 [#]	68 7	233.8558	1/2 ⁻ , 3/2 ⁻	2629.3		2322.22 [#]	34 14	307.0838	1/2 ⁻ , 3/2 ⁻
		2439.07 [#]	100 13	102.7326	(3/2) ⁻			2526.57 [#]	100 14	102.7326	(3/2) ⁻
		2468.9 [#]	29 8	72.903	(5/2) ⁻	2632.3		2529.57 [#]	61 12	102.7326	(3/2) ⁻
		2541.8 [#]	20 8	0.0	3/2 ⁻			2590.82 [#]	84 14	41.4844	(1/2) ⁻
2548.2		2252.52 [#]	31 8	295.6812	(5/2) ⁻			2632.3 [#]	100 16	0.0	3/2 ⁻
		2314.34 [#]	100 6	233.8558	1/2 ⁻ , 3/2 ⁻	2637.8		2535.07 [#]	38 15	102.7326	(3/2) ⁻
		2445.47 [#]	47 9	102.7326	(3/2) ⁻			2596.32 [#]	100 15	41.4844	(1/2) ⁻
2551.3		2551.3 [#]	100	0.0	3/2 ⁻			2637.8 [#]	46 15	0.0	3/2 ⁻
2554.6		2247.52 [#]	100 32	307.0838	1/2 ⁻ , 3/2 ⁻	2656.6		2553.87 [#]	70 14	102.7326	(3/2) ⁻
		2554.6 [#]	84 32	0.0	3/2 ⁻			2615.12 [#]	100 12	41.4844	(1/2) ⁻
2558.1		2251.02 [#]	27 7	307.0838	1/2 ⁻ , 3/2 ⁻			2656.6 [#]	75 11	0.0	3/2 ⁻
		2516.62 [#]	100 9	41.4844	(1/2) ⁻	2661.8		2354.72 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻
2560.4		2253.32 [#]	100 15	307.0838	1/2 ⁻ , 3/2 ⁻	2671.4		2364.32 [#]	48 5	307.0838	1/2 ⁻ , 3/2 ⁻

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{193}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
2671.4		2437.54 [#]	28 5	233.8558	1/2 ⁻ , 3/2 ⁻	2728.2		2686.72 [#]	100 12	41.4844	(1/2 ⁻)
		2568.67 [#]	46 9	102.7326	(3/2 ⁻)	2732.1		2732.1 [#]	100	0.0	3/2 ⁻
		2598.5 [#]	32 5	72.903	(5/2 ⁻)	2734.3		2500.44 [#]	44 10	233.8558	1/2 ⁻ , 3/2 ⁻
		2629.92 [#]	62 6	41.4844	(1/2 ⁻)			2734.3 [#]	100 16	0.0	3/2 ⁻
		2671.4 [#]	100 9	0.0	3/2 ⁻	2738.4		2504.54 [#]	100 3	233.8558	1/2 ⁻ , 3/2 ⁻
2679.6		2280.58 [#]	100 8	399.018	(5/2 ⁻)			2635.67 [#]	100 4	102.7326	(3/2 ⁻)
		2445.74 [#]	31 8	233.8558	1/2 ⁻ , 3/2 ⁻			2696.92 [#]	86 5	41.4844	(1/2 ⁻)
		2638.12 [#]	49 8	41.4844	(1/2 ⁻)	2741.9		2434.82 [#]	38 11	307.0838	1/2 ⁻ , 3/2 ⁻
		2679.6 [#]	42 11	0.0	3/2 ⁻			2508.04 [#]	36 11	233.8558	1/2 ⁻ , 3/2 ⁻
2687.1		2614.2 [#]	81 19	72.903	(5/2 ⁻)			2639.17 [#]	54 14	102.7326	(3/2 ⁻)
		2645.62 [#]	100 19	41.4844	(1/2 ⁻)			2741.9 [#]	100 11	0.0	3/2 ⁻
2690.2		2456.34 [#]	100 21	233.8558	1/2 ⁻ , 3/2 ⁻	2746.7		2643.97 [#]	100	102.7326	(3/2 ⁻)
		2648.72 [#]	85 18	41.4844	(1/2 ⁻)	2749.8		2647.07 [#]	68 14	102.7326	(3/2 ⁻)
2693.9		2591.17 [#]	73 23	102.7326	(3/2 ⁻)			2676.9 [#]	100 11	72.903	(5/2 ⁻)
		2621.0 [#]	100 23	72.903	(5/2 ⁻)			2749.8 [#]	45 11	0.0	3/2 ⁻
2697.0		2389.92 [#]	37 12	307.0838	1/2 ⁻ , 3/2 ⁻	2752.9		2445.82 [#]	100 22	307.0838	1/2 ⁻ , 3/2 ⁻
		2401.32 [#]	100 16	295.6812	(5/2 ⁻)			2519.04 [#]	59 22	233.8558	1/2 ⁻ , 3/2 ⁻
		2463.14 [#]	59 14	233.8558	1/2 ⁻ , 3/2 ⁻	2758.2		2524.34 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻
		2594.27 [#]	92 16	102.7326	(3/2 ⁻)	2761.7		2761.7 [#]	100	0.0	3/2 ⁻
2699.5		2300.48 [#]	26 5	399.018	(5/2 ⁻)	2764.9		2457.82 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻
		2465.64 [#]	24 7	233.8558	1/2 ⁻ , 3/2 ⁻	2773.9		2466.82 [#]	47 9	307.0838	1/2 ⁻ , 3/2 ⁻
		2596.77 [#]	100 1	102.7326	(3/2 ⁻)			2540.04 [#]	31 9	233.8558	1/2 ⁻ , 3/2 ⁻
		2626.6 [#]	24 6	72.903	(5/2 ⁻)			2671.17 [#]	100 11	102.7326	(3/2 ⁻)
		2658.02 [#]	41 7	41.4844	(1/2 ⁻)			2732.42 [#]	26 9	41.4844	(1/2 ⁻)
		2699.5 [#]	75 8	0.0	3/2 ⁻			2773.9 [#]	57 9	0.0	3/2 ⁻
2703.7		2304.68 [#]	21 7	399.018	(5/2 ⁻)	2779.4		2545.54 [#]	100	233.8558	1/2 ⁻ , 3/2 ⁻
		2396.62 [#]	59 8	307.0838	1/2 ⁻ , 3/2 ⁻	2782.1		2326.33 [#]	100 19	455.773	(5/2 ⁻)
		2469.84 [#]	100 12	233.8558	1/2 ⁻ , 3/2 ⁻			2475.02 [#]	72 19	307.0838	1/2 ⁻ , 3/2 ⁻
		2600.97 [#]	42 11	102.7326	(3/2 ⁻)			2548.24 [#]	91 3	233.8558	1/2 ⁻ , 3/2 ⁻
		2662.22 [#]	61 9	41.4844	(1/2 ⁻)			2679.37 [#]	94 19	102.7326	(3/2 ⁻)
2708.9		2413.22 [#]	33 11	295.6812	(5/2 ⁻)			2709.2 [#]	100 19	72.903	(5/2 ⁻)
		2475.04 [#]	100 12	233.8558	1/2 ⁻ , 3/2 ⁻			2740.62 [#]	72 19	41.4844	(1/2 ⁻)
2714.8		2407.72 [#]	100 19	307.0838	1/2 ⁻ , 3/2 ⁻			2782.1 [#]	78 19	0.0	3/2 ⁻
		2480.94 [#]	69 19	233.8558	1/2 ⁻ , 3/2 ⁻	2784.1		2477.02 [#]	100 15	307.0838	1/2 ⁻ , 3/2 ⁻
2716.9		2409.82 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻			2550.24 [#]	66 22	233.8558	1/2 ⁻ , 3/2 ⁻
2720.2		2264.43 [#]	42 12	455.773	(5/2 ⁻)	2792.0		2484.92 [#]	100 12	307.0838	1/2 ⁻ , 3/2 ⁻
		2321.18 [#]	37 9	399.018	(5/2 ⁻)			2496.32 [#]	49 14	295.6812	(5/2 ⁻)
		2413.12 [#]	49 11	307.0838	1/2 ⁻ , 3/2 ⁻			2750.52 [#]	31 12	41.4844	(1/2 ⁻)
		2486.34 [#]	46 11	233.8558	1/2 ⁻ , 3/2 ⁻	2797.9		2490.82 [#]	45 7	307.0838	1/2 ⁻ , 3/2 ⁻
		2647.3 [#]	46 11	72.903	(5/2 ⁻)			2564.04 [#]	25 7	233.8558	1/2 ⁻ , 3/2 ⁻
		2678.72 [#]	100 21	41.4844	(1/2 ⁻)			2695.17 [#]	100 9	102.7326	(3/2 ⁻)
		2720.2 [#]	44 11	0.0	3/2 ⁻			2797.9 [#]	43 7	0.0	3/2 ⁻
2723.6		2489.74 [#]	100 13	233.8558	1/2 ⁻ , 3/2 ⁻	2805.5		2349.73 [#]	39 7	455.773	(5/2 ⁻)
		2650.7 [#]	48 13	72.903	(5/2 ⁻)			2702.77 [#]	88 7	102.7326	(3/2 ⁻)
2728.2		2625.47 [#]	51 11	102.7326	(3/2 ⁻)			2764.02 [#]	100 9	41.4844	(1/2 ⁻)

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) $\gamma(^{193}\text{Os})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π
2805.5		2805.5 [#]	33 7	0.0	3/2 ⁻	2904.1		2597.02 [#]	100	307.0838	1/2 ⁻ , 3/2 ⁻
2811.6		2504.52 [#]	100 21	307.0838	1/2 ⁻ , 3/2 ⁻	2909.0		2509.98 [#]	18 3	399.018	(5/2) ⁻
		2738.7 [#]	83 21	72.903	(5/2) ⁻			2601.92 [#]	20 5	307.0838	1/2 ⁻ , 3/2 ⁻
2822.8		2113.6 [#]	100	709.200	(5/2 ⁻ , 7/2 ⁻)			2675.14 [#]	45 4	233.8558	1/2 ⁻ , 3/2 ⁻
2830.3		2596.44 [#]	100 7	233.8558	1/2 ⁻ , 3/2 ⁻			2806.27 [#]	76 5	102.7326	(3/2) ⁻
		2727.57 [#]	37 6	102.7326	(3/2) ⁻			2867.52 [#]	100 8	41.4844	(1/2) ⁻
2834.3		2731.57 [#]	100	102.7326	(3/2) ⁻			2909.0 [#]	17 5	0.0	3/2 ⁻
2856.3		2549.22 [#]	23 4	307.0838	1/2 ⁻ , 3/2 ⁻	2913.3		2606.22 [#]	100 16	307.0838	1/2 ⁻ , 3/2 ⁻
		2753.57 [#]	26 4	102.7326	(3/2) ⁻			2871.82 [#]	86 16	41.4844	(1/2) ⁻
		2856.3 [#]	100 7	0.0	3/2 ⁻	2918.0		2610.92 [#]	100 3	307.0838	1/2 ⁻ , 3/2 ⁻
2863.8		2154.6 [#]	55 9	709.200	(5/2 ⁻ , 7/2 ⁻)			2918.0 [#]	100 3	0.0	3/2 ⁻
		2408.03 [#]	100 9	455.773	(5/2) ⁻	2972.4		2516.63 [#]	39 5	455.773	(5/2) ⁻
		2761.07 [#]	67 7	102.7326	(3/2) ⁻			2930.92 [#]	100 8	41.4844	(1/2) ⁻
		2822.32 [#]	50 7	41.4844	(1/2) ⁻	2979.9		2877.17 [#]	57 13	102.7326	(3/2) ⁻
2870.0		2767.27 [#]	100 5	102.7326	(3/2) ⁻			2938.42 [#]	100 12	41.4844	(1/2) ⁻
		2828.52 [#]	52 5	41.4844	(1/2) ⁻	2986.9		2914.0 [#]	100	72.903	(5/2) ⁻
		2870.0 [#]	37 4	0.0	3/2 ⁻	3001.7		2898.97 [#]	100 24	102.7326	(3/2) ⁻
2875.8		2641.94 [#]	44 13	233.8558	1/2 ⁻ , 3/2 ⁻			3001.7 [#]	96 24	0.0	3/2 ⁻
		2773.07 [#]	42 13	102.7326	(3/2) ⁻	3006.6		2772.74 [#]	21 8	233.8558	1/2 ⁻ , 3/2 ⁻
		2875.8 [#]	100 13	0.0	3/2 ⁻			2903.87 [#]	100 11	102.7326	(3/2) ⁻
2880.0		2646.14 [#]	93 22	233.8558	1/2 ⁻ , 3/2 ⁻			2965.12 [#]	34 9	41.4844	(1/2) ⁻
		2807.1 [#]	100 22	72.903	(5/2) ⁻			3006.6 [#]	92 11	0.0	3/2 ⁻
2887.0		2487.98 [#]	22 5	399.018	(5/2) ⁻	3010.4		2937.5 [#]	100 12	72.903	(5/2) ⁻
		2579.92 [#]	15 5	307.0838	1/2 ⁻ , 3/2 ⁻			3010.4 [#]	83 19	0.0	3/2 ⁻
		2814.1 [#]	100 7	72.903	(5/2) ⁻						

[†] From $^{192}\text{Os}(n,\gamma)$ E=thermal, except otherwise noted. γ -rays from [2002Ba66](#) ($\gamma\gamma$ cascade) identified by footnote. For some levels there was no common γ -ray to scale the $\gamma\gamma$ intensities with single measurements to deduce branching ratio and so not listed.

[‡] From ($^7\text{Li}, ^6\text{Li}\gamma$).

[#] From [2002Ba66](#) ($\gamma\gamma$ cascade) in (n,γ) E=thermal.

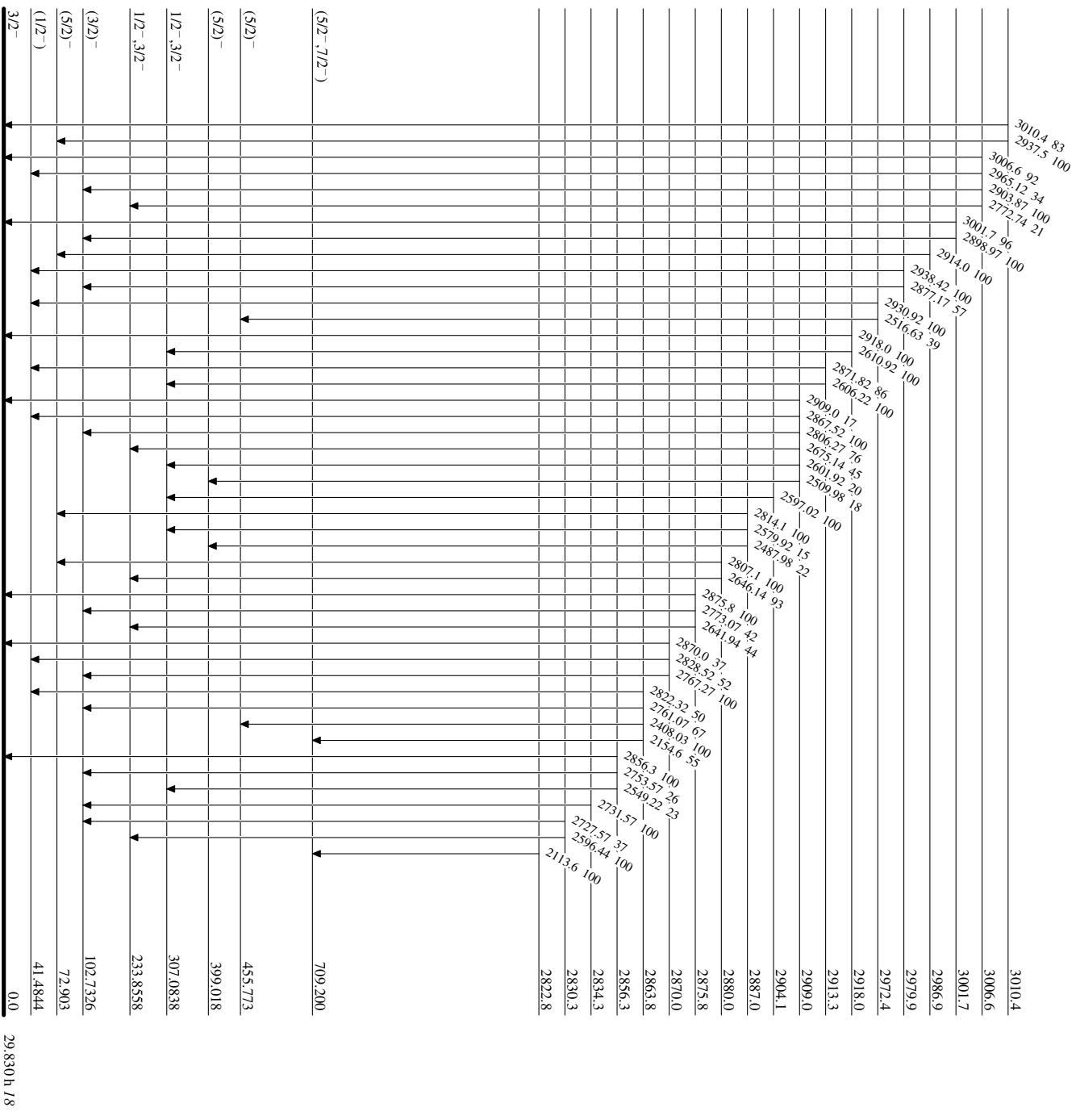
[@] Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

[&] Multiply placed with undivided intensity.

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

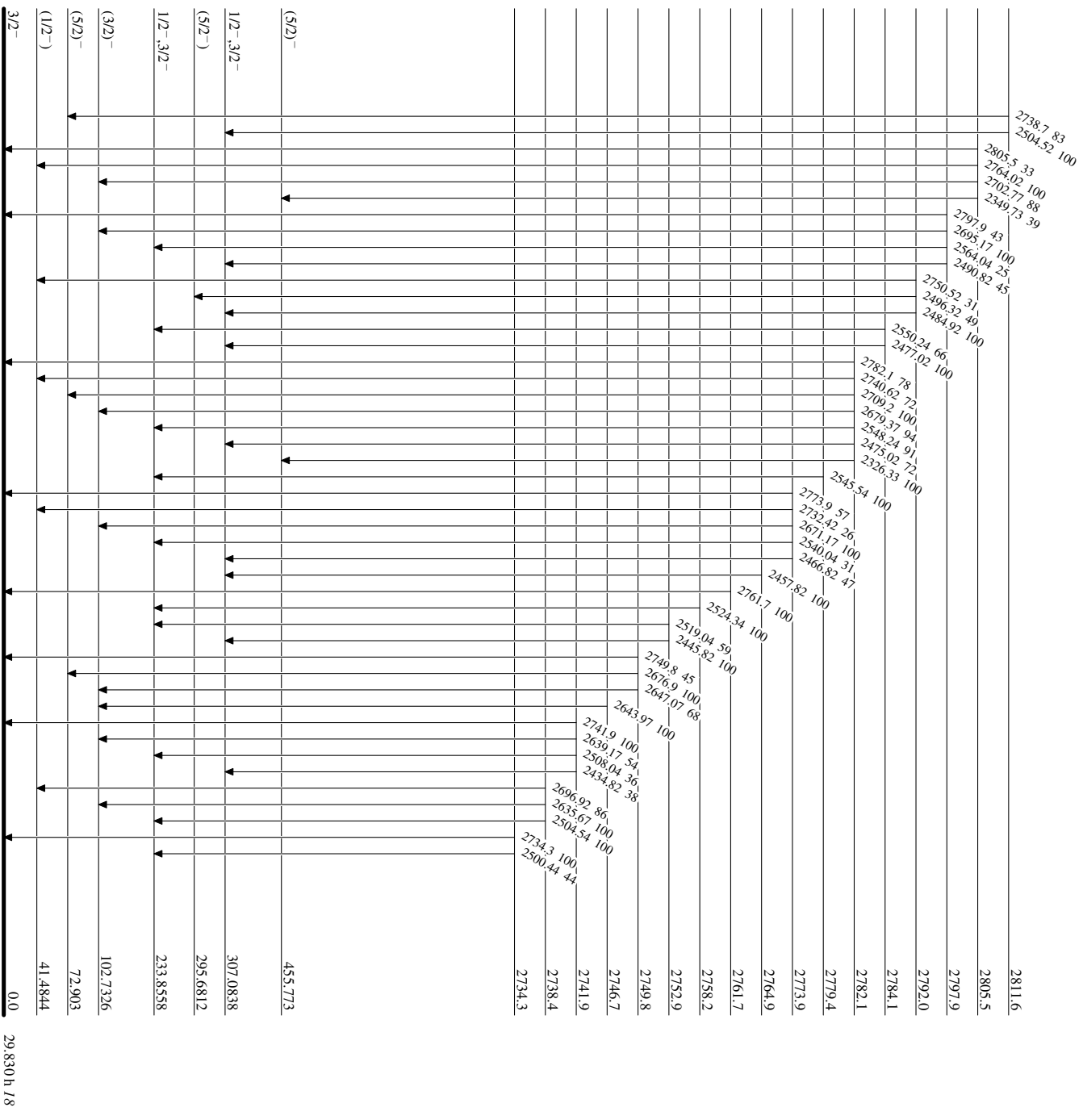


$^{193}\text{Os}_{117}$

29.830 h / 8

Adopted Levels, Gammas
Level Scheme (continued)

Intensities: Relative photon branching from each level

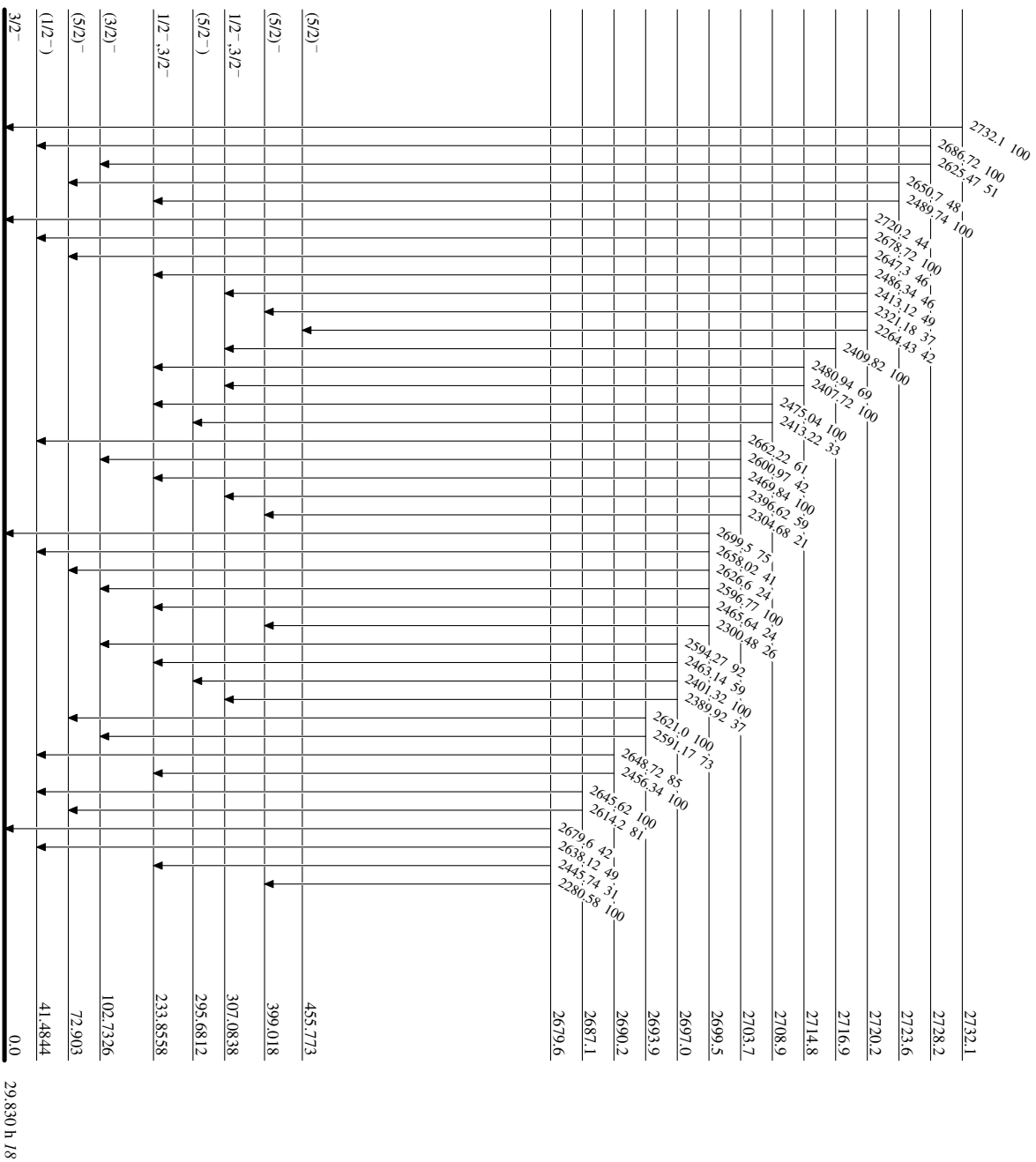


$^{193}\text{Os}_{117}$

Adopted Levels, Gammas

Level Scheme (continued)

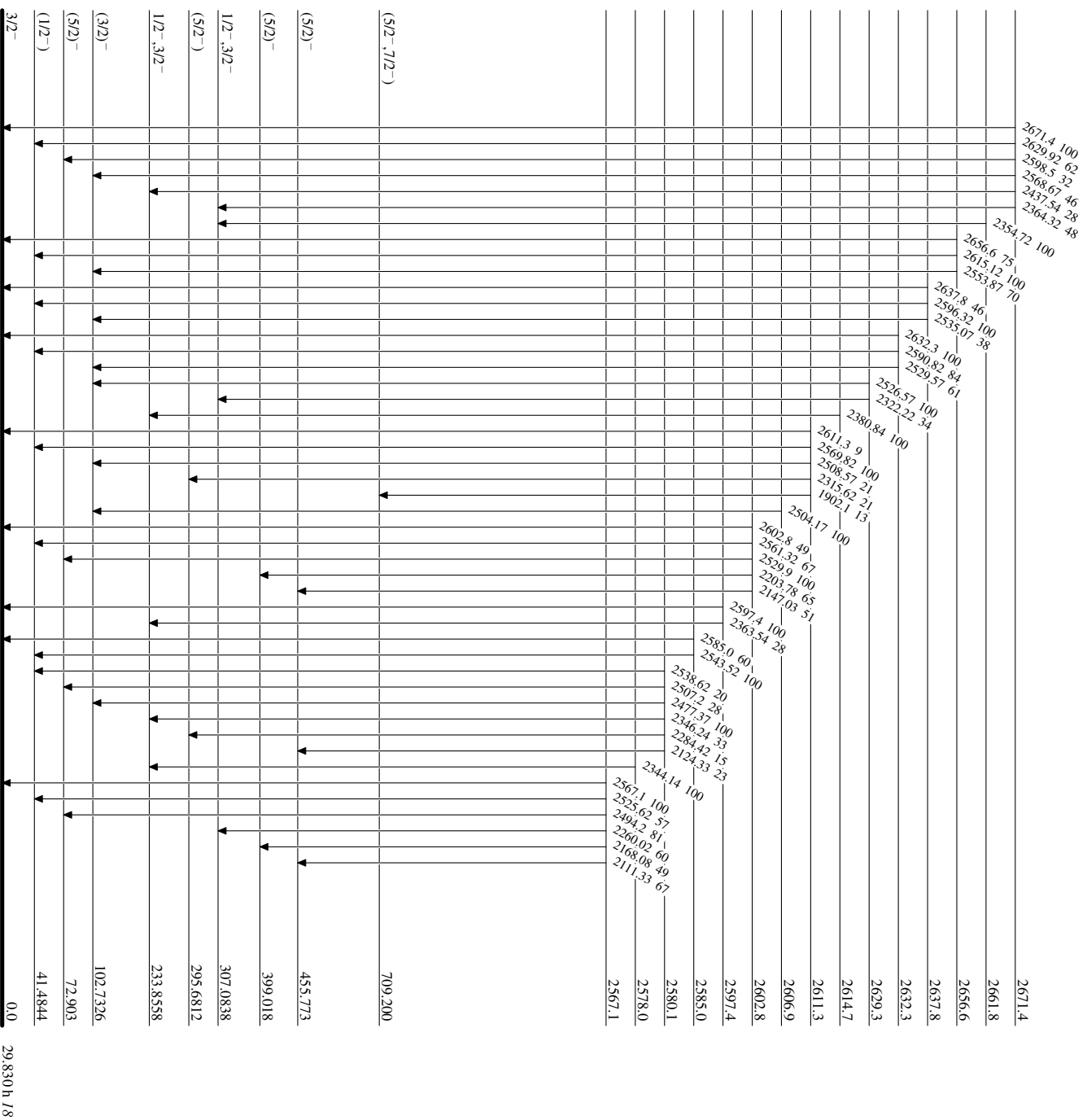
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

Level Scheme (continued)

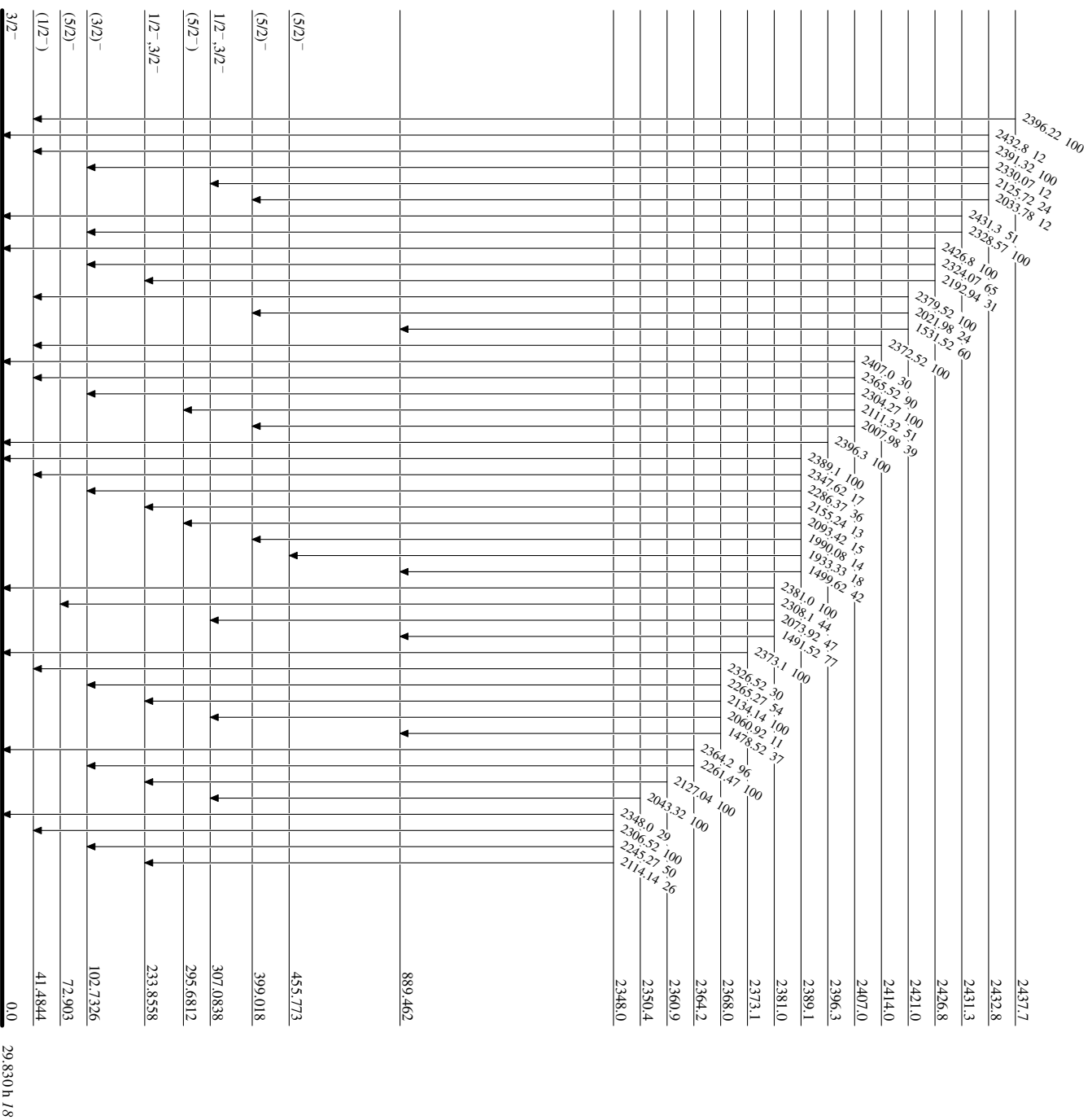
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

Level Scheme (continued)

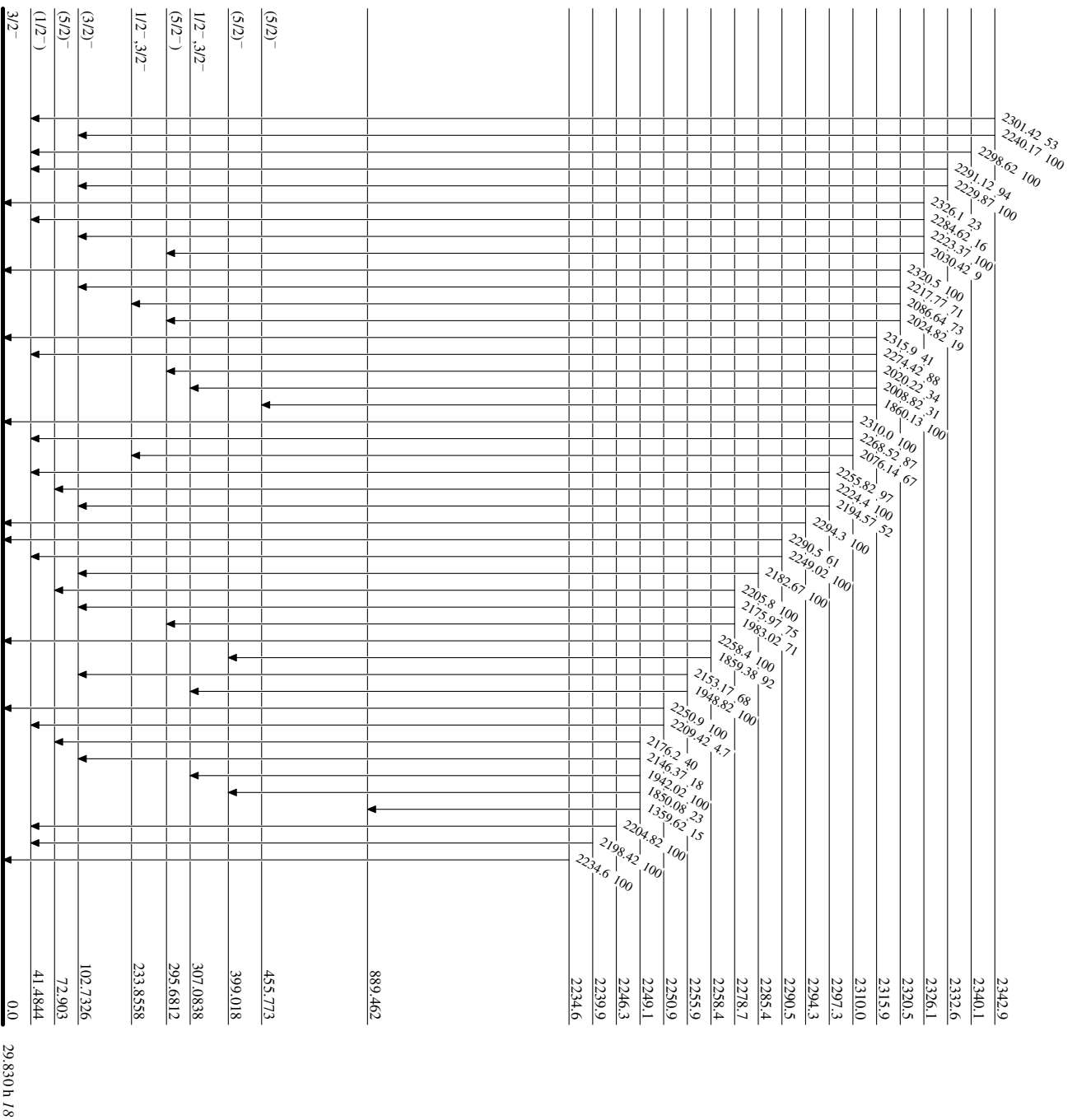
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

Level Scheme (continued)

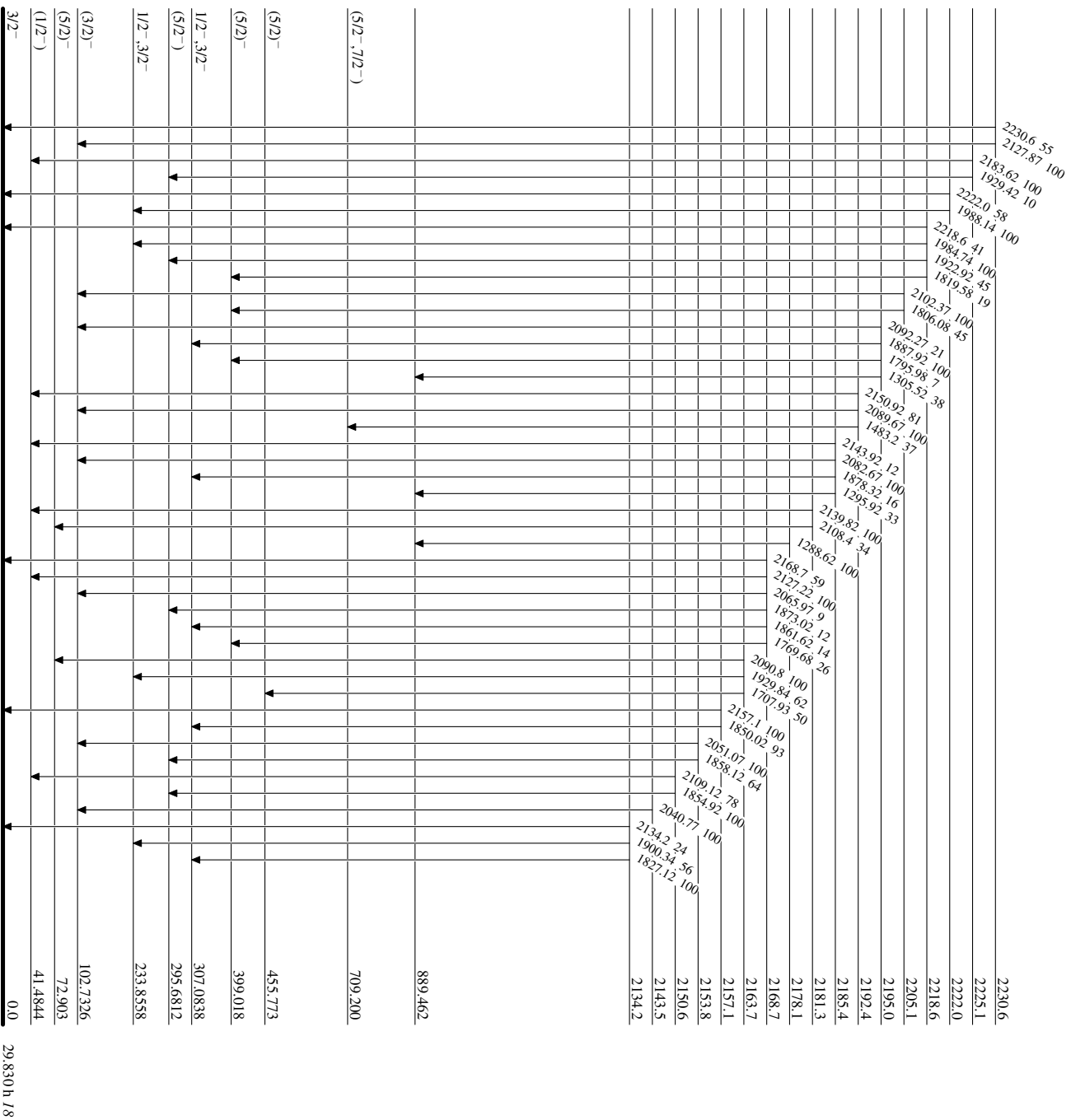
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

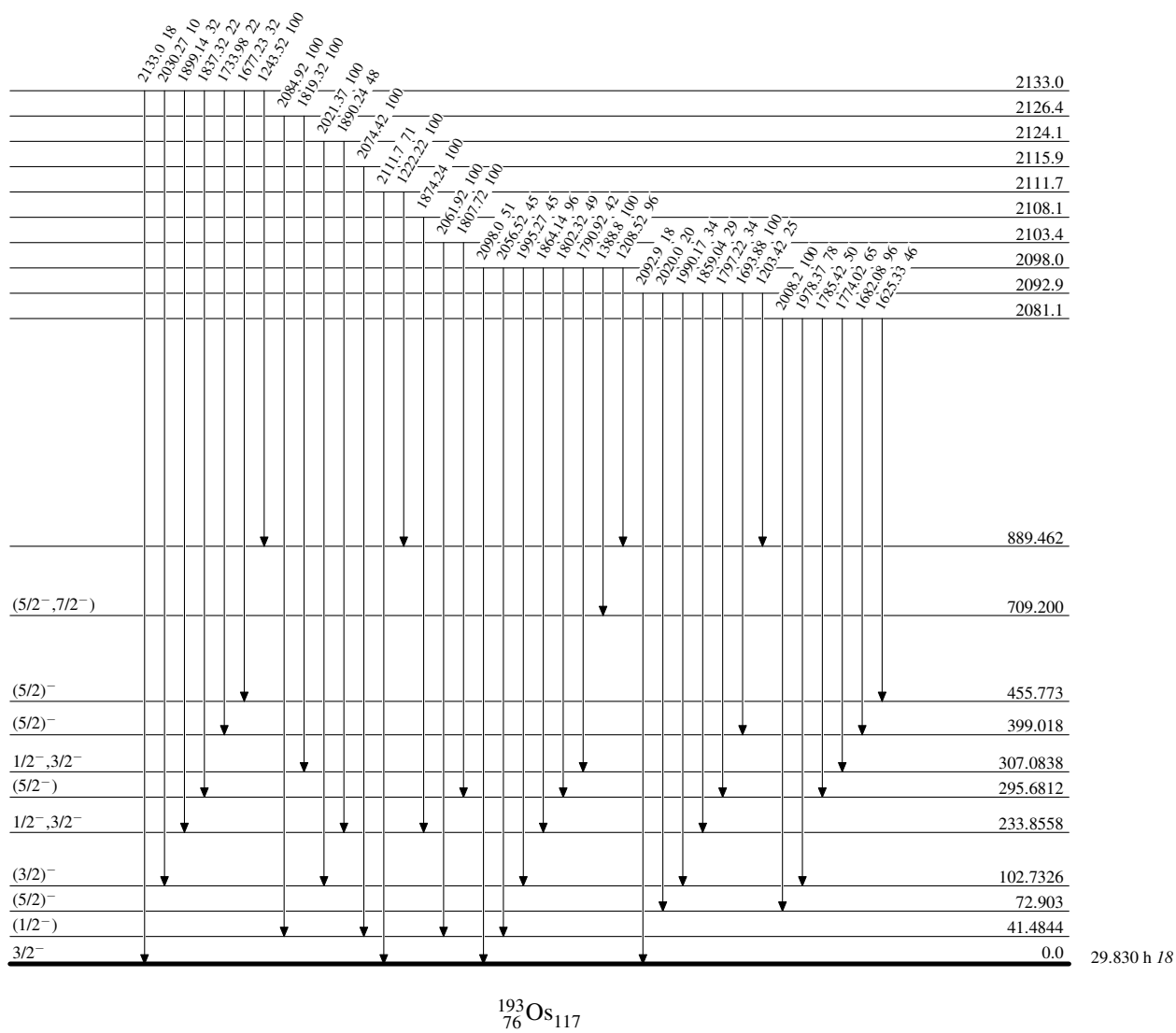
Level Scheme (continued)

Intensities: Relative photon branching from each level



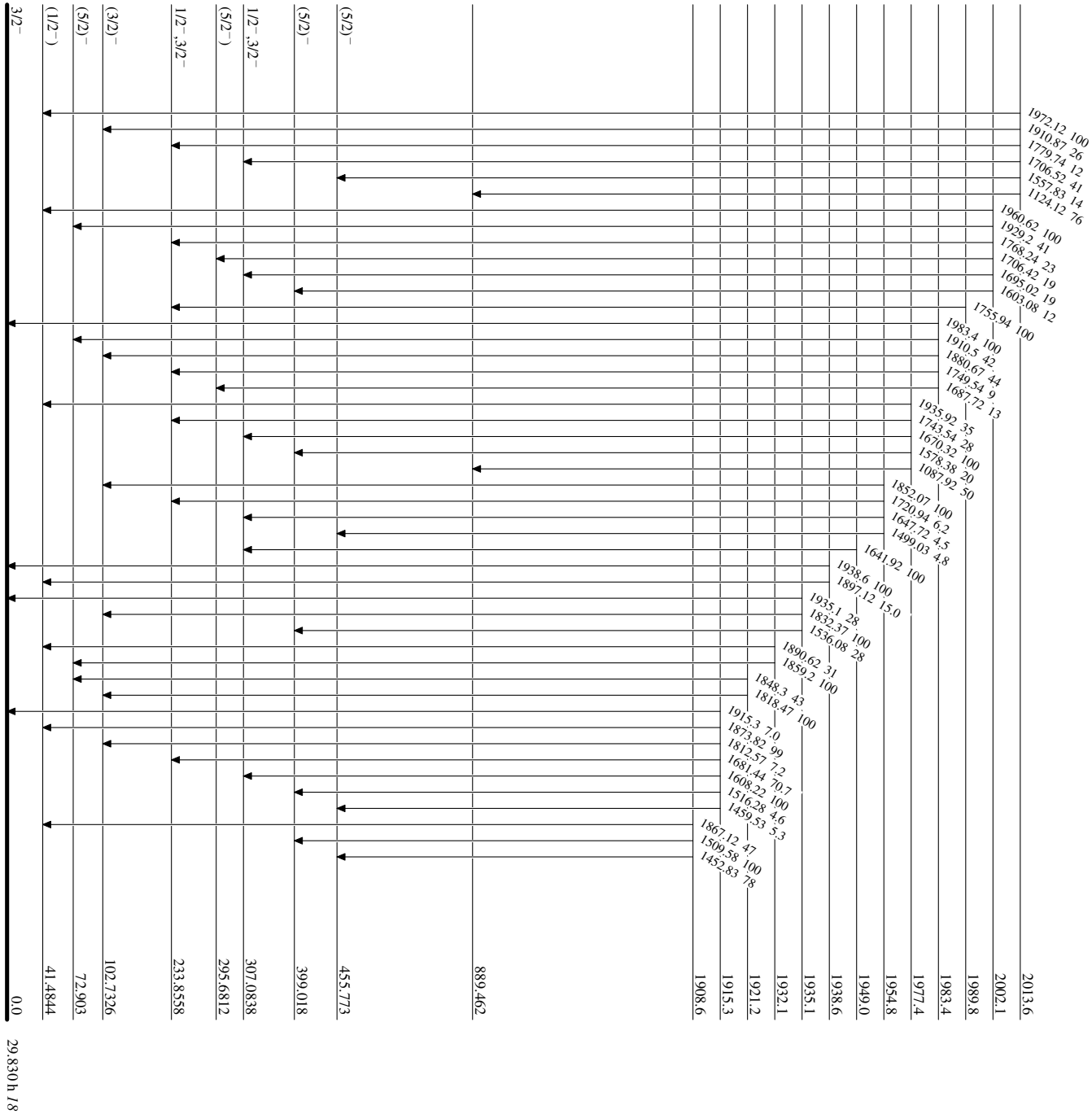
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level



Adopted Levels, Gammas
Level Scheme (continued)

Intensities: Relative photon branching from each level



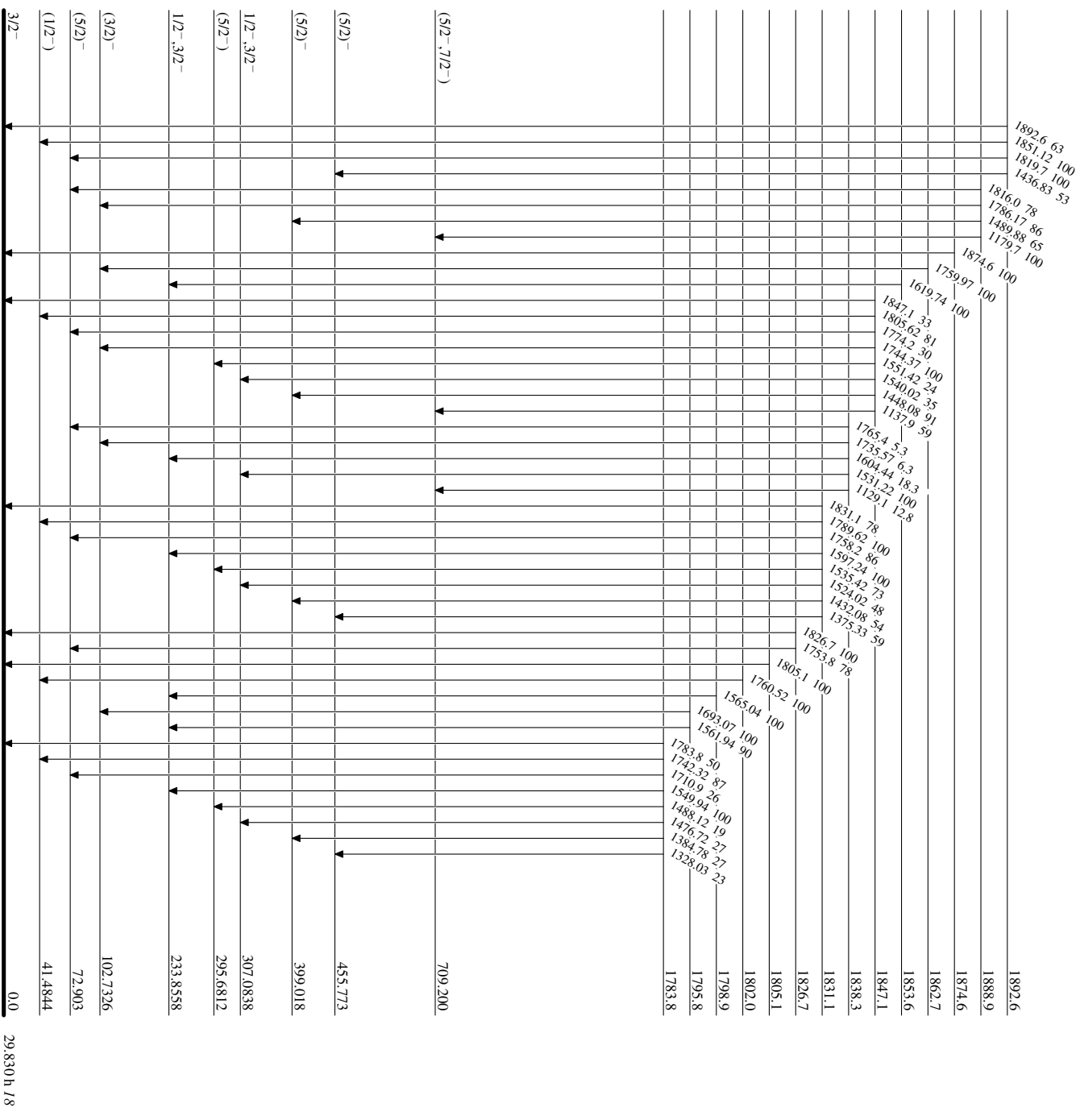
¹⁹³Os₁₁₇

29.830 h / 8

Adopted Levels, Gammas

Level Scheme (continued)

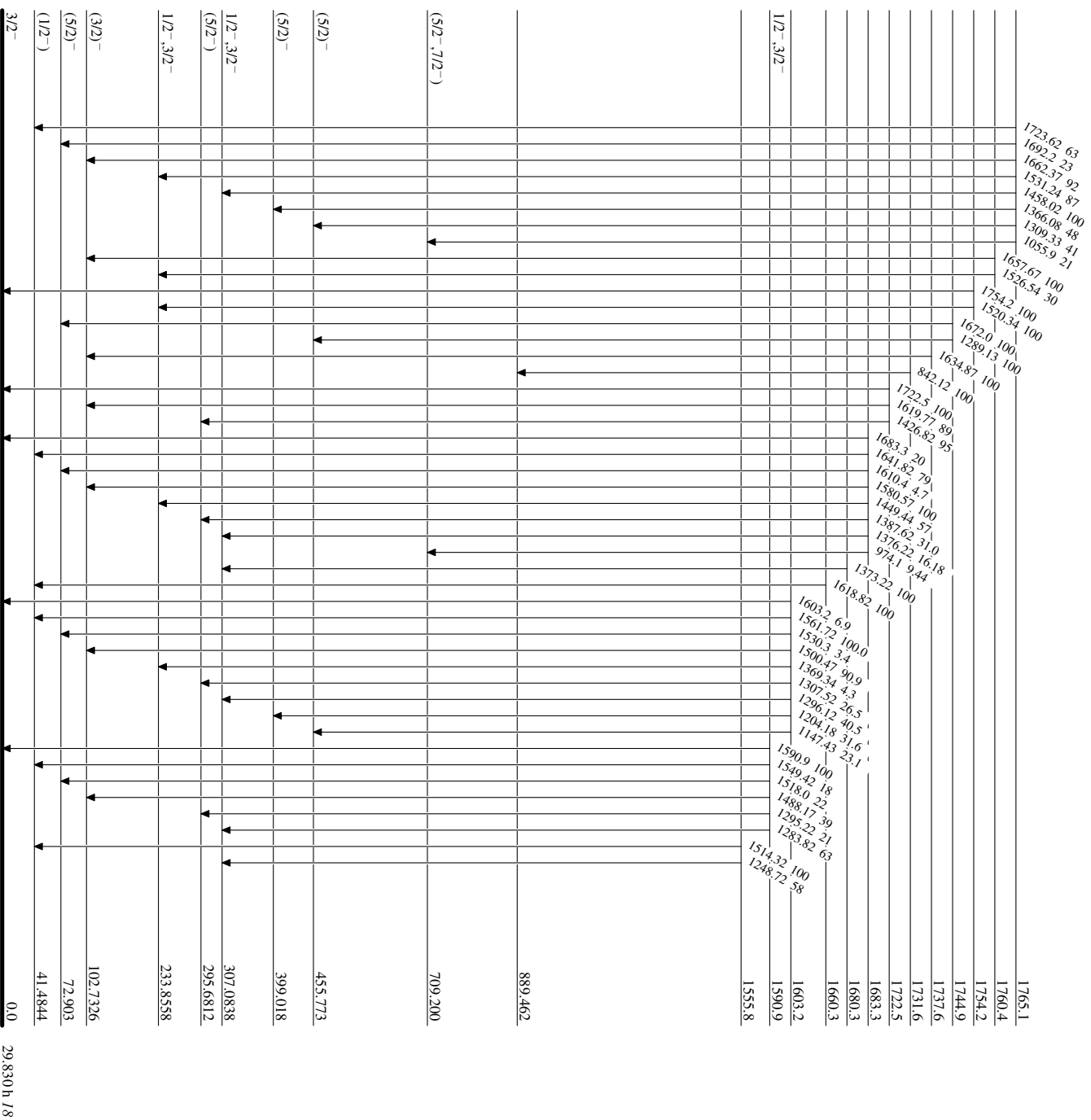
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

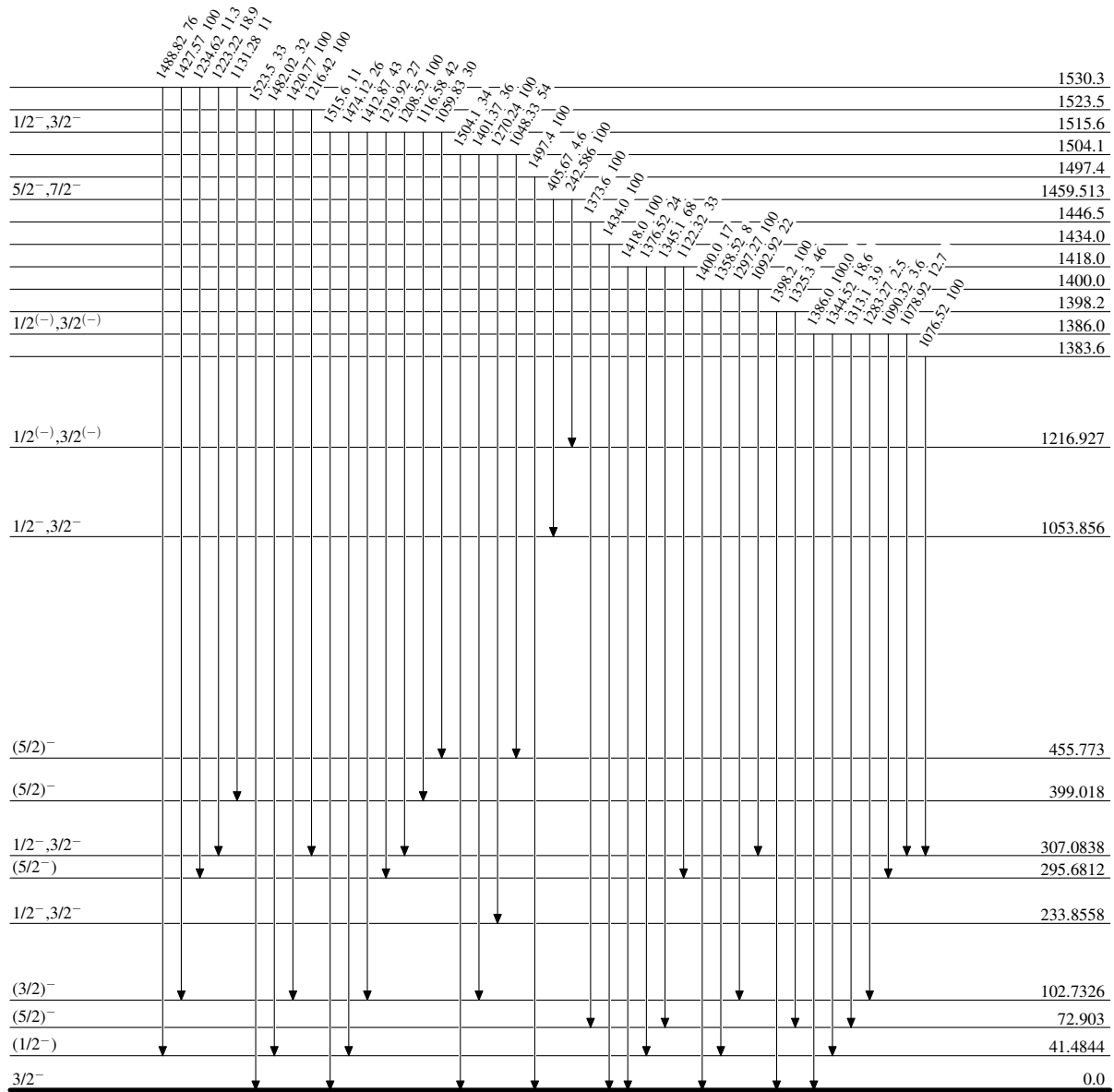
Level Scheme (continued)

Intensities: Relative photon branching from each level



Adopted Levels, Gammas**Level Scheme (continued)**

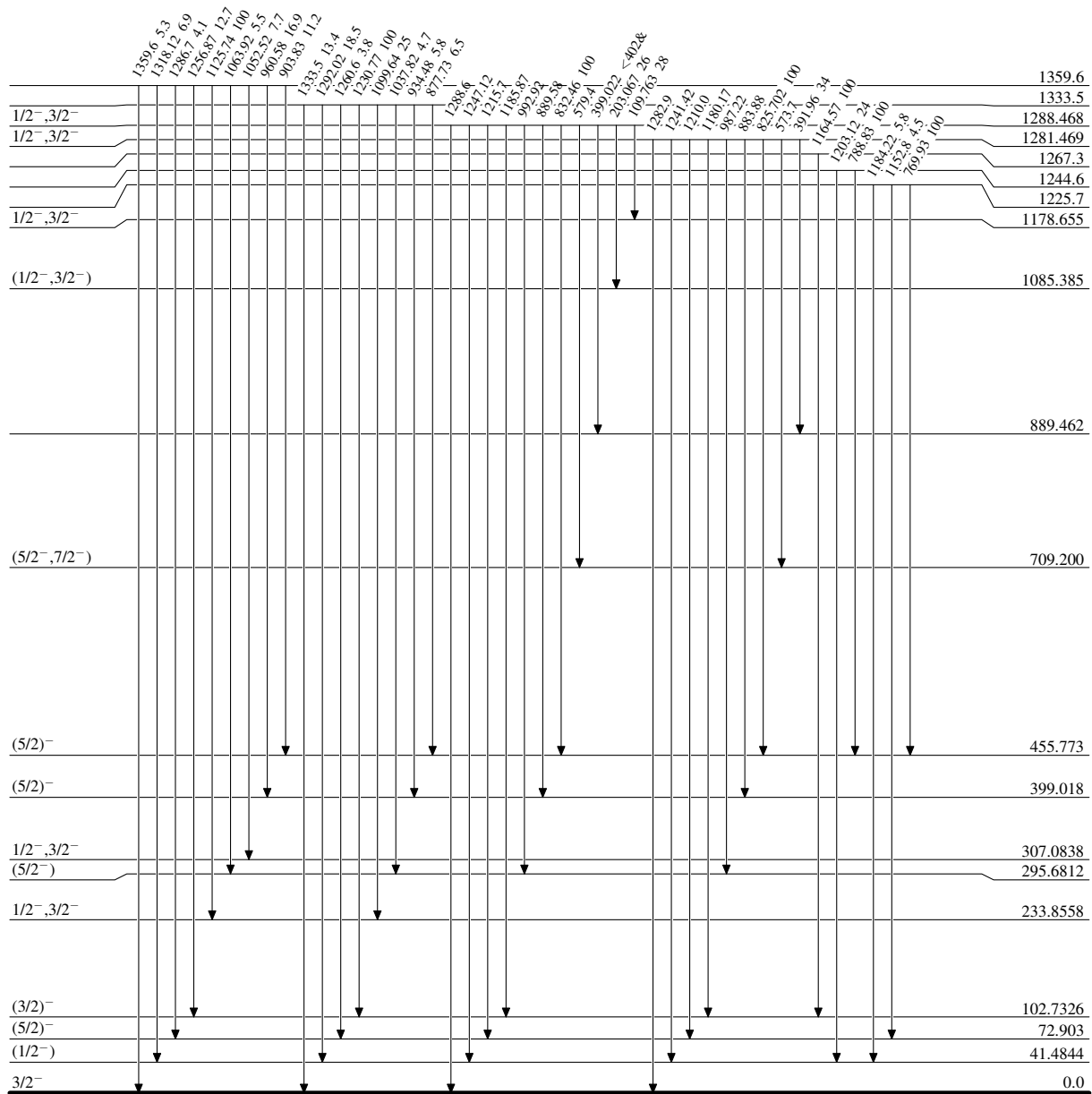
Intensities: Relative photon branching from each level



29.830 h 18

Adopted Levels, Gammas**Level Scheme (continued)**

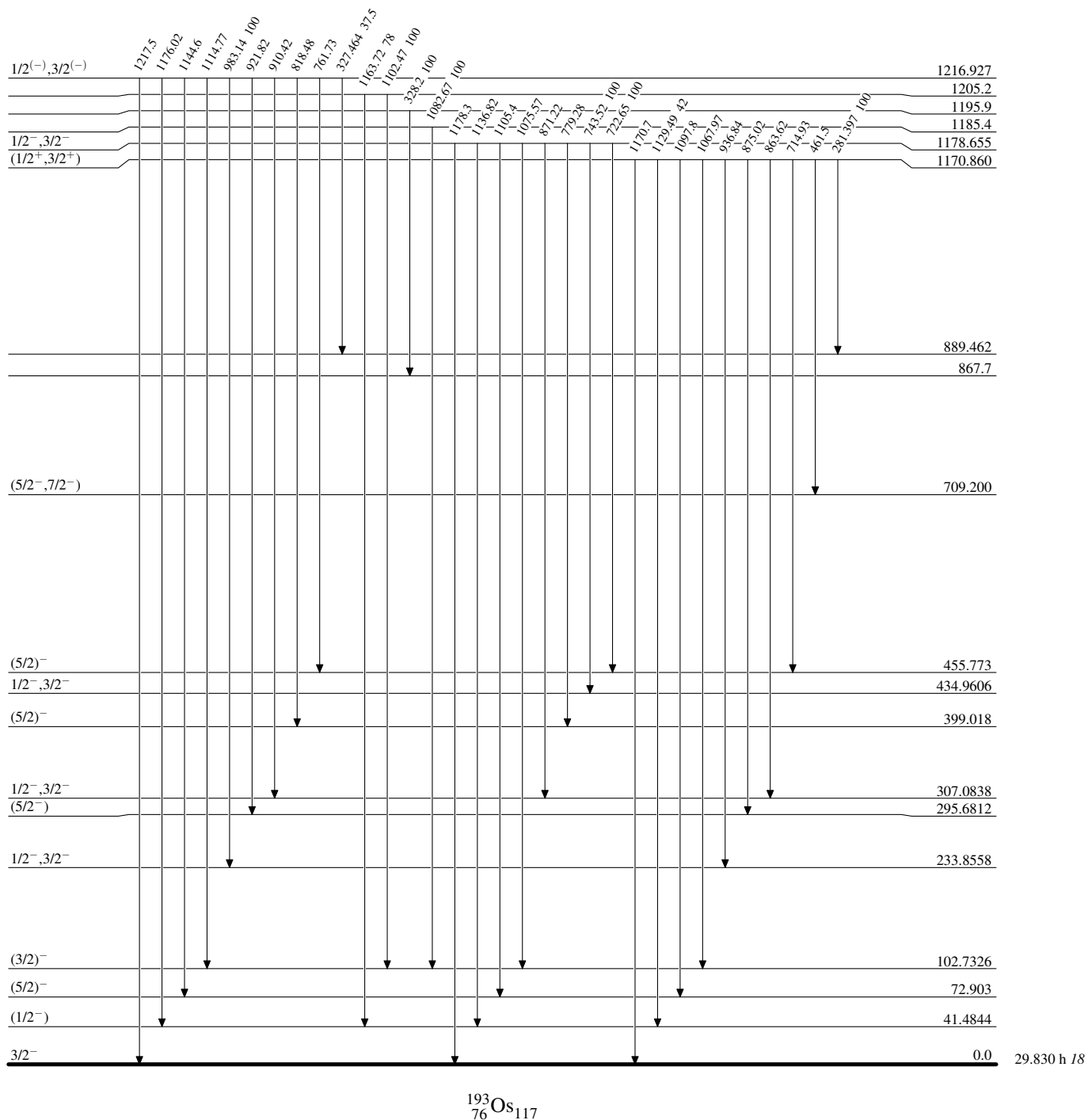
Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given



Adopted Levels, Gammas

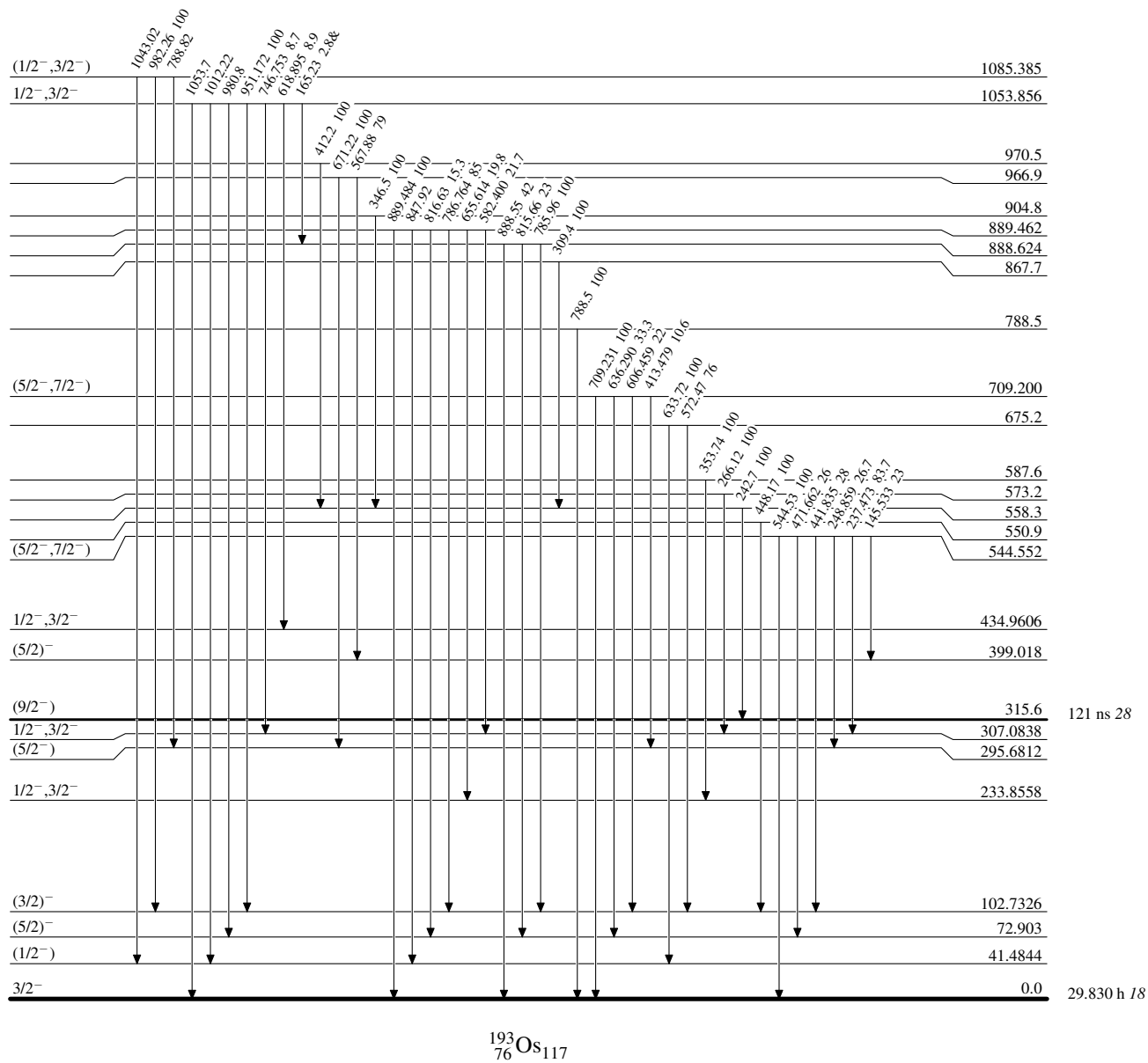
Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given



Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given



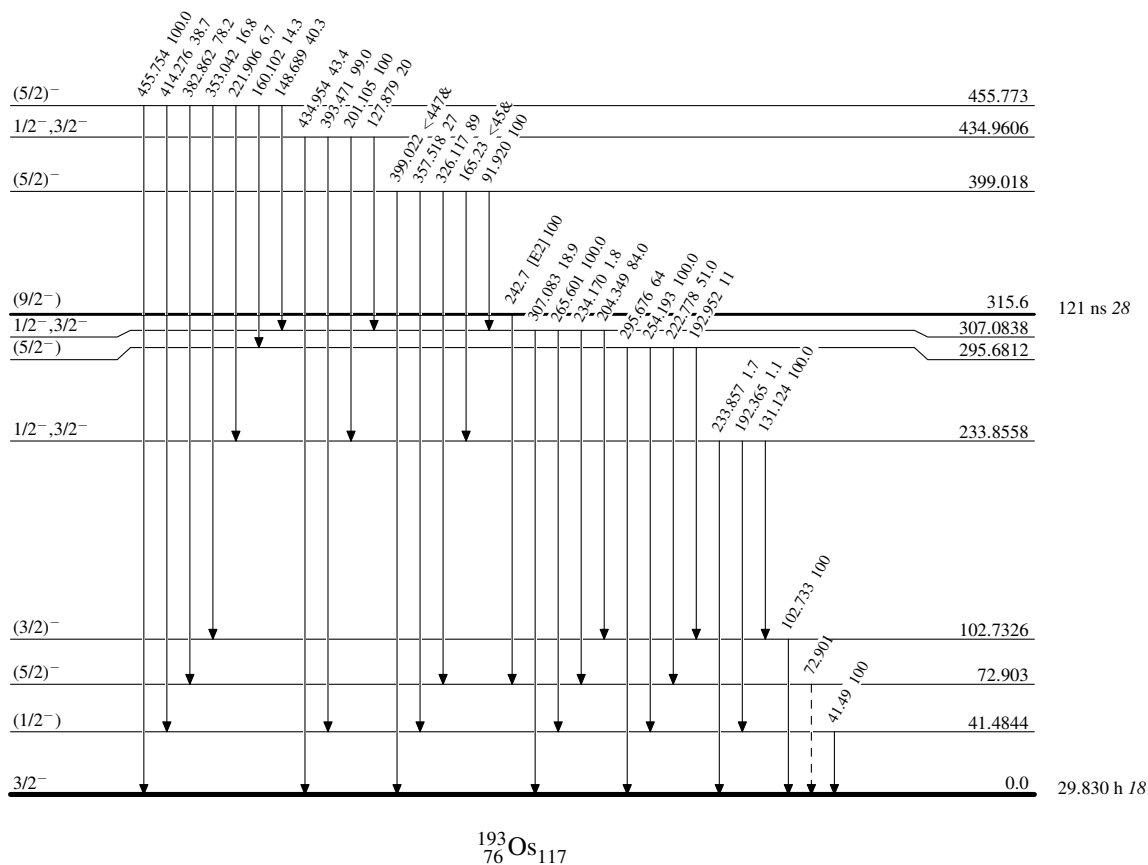
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

-----► γ Decay (Uncertain)



Adopted Levels, Gammas

