

$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong	NDS 108, 1093 (2007)	1-Jan-2006

E=9.1-11.7 MeV, Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, $\text{ce}\gamma$ coin, $\gamma\gamma(\theta)$, $\text{ce}\gamma(t)$, excitation functions, using YRAST ball consisting of 4 four-element Clover detectors, 17 single-crystal HPGe detectors and two LEPS detectors. Conversion electrons were detected by iron-free orange spectrometers and plastic scintillators.

 ^{196}Au Levels

E(level) [†]	$J^{\pi\ddagger}$	$T_{1/2}$	Comments
0.0	2^{-}	6.1669 d 6	$T_{1/2}$: From 2001Li17. J^{π} : From adopted level.
6.48 4	1^{-}		
41.86 5	0^{-}		J^{π} : L(p,n)=0.
84.63 6	5^{+}	8.1 s 2	$T_{1/2}$: From Adopted Levels.
162.56 4	$2^{-}, 3^{-}$		J^{π} : M1 γ to 2^{-} , g.s.
166.40 4	1^{-}	291 ps 50	$T_{1/2}$: From ce time spectra in (d,2n γ). J^{π} : M1 γ to 0^{-} , 42.
167.43 4	$1^{-}, 2^{-}$		J^{π} : M1 γ to 1^{-} , 6.5; population from 3^{-} , 490.
197.97 4	$1^{-}, 2^{-}$		J^{π} : γ to 0^{-} , 42.
212.80 4	4^{-}	1.79 ns 15	$T_{1/2}$: From ce time spectra in (d,2n γ).
232.49 9	7^{+}		
234.53 4	3^{-}	≤ 200 ps	$T_{1/2}$: From ce time spectra in (d,2n γ). J^{π} : M1 γ to 2^{-} , g.s.
252.58 4	1^{-}		J^{π} : γ to 0^{-} , 42.
258.61 5	$1^{-}, 2^{-}$		J^{π} : γ to 0^{-} , 42.
288.06 4	2^{-}		J^{π} : γ to 0^{-} , 42.
298.56 5	$1^{-}, 2^{-}$		J^{π} : γ to 0^{-} , 42.
307.22 4	2^{-}		
323.83 4	1^{-}		J^{π} : M1 γ to 0^{-} , 42.
326.09 5	1^{-}		J^{π} : γ to 3^{-} , 235 and 0^{-} , 42.
348.37 7	$5^{+}, 6^{+}$		
349.17 4	2^{-}		J^{π} : M1 γ to 1^{-} , 166; 3^{-} , 235.
355.91? 11	(0^{-})		J^{π} : weak population in (p,n γ) and its γ decay suggests (0^{-}) . 1999Me19 suggests $2^{-}, 3^{-}$.
370.11 9	$(6,7)^{+}$		
375.61 4	3^{-}		
388.21 5	3^{+}		
400.79 9	6^{+}		
403.79 4	$3^{-}, 4^{-}$		J^{π} : γ to $2^{-}, 3^{-}, 4^{-}$. (pol d,t) suggests $2^{-}, 3^{-}, 4^{-}$, but 2^{-} inconsistent with the excitation function in (p,n γ). J^{π} : weak population in (p,n γ) and its γ decay suggests $\leq 2^{-}$. (pol d,t) suggests $\leq 3^{-}$.
408.36 5	0^{-} to 3^{-}		
413.74 5	2^{-}		
420.71 10	8^{+}		
423.63 6	$4^{+}, 5^{+}$		
456.44 5	2^{-}		
467.09 6	$3^{+}, 4^{+}$		
480.29 4	(2^{-})		
490.19 4	3^{-}		J^{π} : M1 γ to 2^{-} , 349.
491.19 8	1^{-} to 4^{-}		
491.62 12			
499.69 14			
501.63 11			
502.75 11			
518.02 6	$4^{+}, 5^{+}$		
520.50 6	3^{-}		J^{π} : L(pol d,t)=3.
542.40 6			

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ [2000Gr32](#) (continued) ^{196}Au Levels (continued)

E(level) [†]	$J^{\pi\ddagger}$	Comments
550.79 7		
551.70 11		
564.04 6		
565.24 7		
568.62 6		
569.91 6	1 ⁻ ,2 ⁻ ,3 ⁻	J^{π} : γ to 1 ⁻ ,324.
571.40 6	(4 ⁻)	J^{π} : γ to 3 ⁻ ,235.
575.71 6		
587.54 11		
598.05 12		
625.19 6	(4 ⁻)	J^{π} : γ to 3 ⁻ ,235.
627.09 14		
635.66 6		
636.56 9		
637.83 5		
640.61 14		
645.46 12		
645.51 14		
651.41 7		
657.89 14		
662.53 12		
668.73 4	(3 ⁻)	J^{π} : γ to 3 ⁻ ,235.
672.79 14		
680.46 5	4 ⁻	
688.55 5		
702.59 5	4 ⁻	
704.39 14		
708.51 7	2 ⁻	
713.89 6		
714.31 14		
716.48 6		
720.39 5		
720.66 9		
726.01 11		
733.30 6	1 ⁻	
747.92 6		
749.5? 1		
750.59 5		
753.05 8		
760.66 12		
769.28 7		
780.53 9		
785.72 6	(2 ⁻)	
797.89 9		
799.53 5	4 ⁻	
807.48 8		
807.81 8		
813.30 8		
815.41 14		
816.03 8		
816.59 6		
819.46 7		
841.29 14		
848.01 14		
848.06 12		
850.18 8		
851.41 7		

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32 (continued) ^{196}Au Levels (continued)

E(level) [†]	J ^{π‡}	E(level) [†]	J ^{π‡}	E(level) [†]	E(level) [†]
852.81 14		967.49 9		1093.46 8	1296.11 12
852.82 9		968.94 8		1095.22 11	1298.00 11
853.95 7		980.20 8		1096.34 11	1337.70 9
856.49 7		989.04 11		1100.90 8	1347.63 11
876.23 8		990.91 11 (3 ⁻)		1107.76 8	1350.93 11
877.07 6		991.86 11		1120.50 13	1361.79 11
881.68 8		992.05 9		1121.46 11	1364.47 12
882.63 8		993.42 12		1134.39 11	1387.29 12
883.50 11		995.53 11		1140.39 12	1403.13 12
893.22 8 (3 ⁻)		1003.86 11		1146.93 11	1416.29 12
895.80 9		1004.29 11		1152.90 8	1426.83 12
902.04 6 1 ⁻		1014.65 8		1156.60 12	1431.23 12
907.25 9		1017.84 11		1174.92 11	1432.24 9
908.27 7		1018.53 11		1188.79 12	1457.31 12
921.52 6		1025.05 8		1196.20 12	1491.80 13
925.64 9		1045.74 11		1198.00 9	1522.63 12
931.62 14		1046.28 7		1203.41 8	1552.39 12
931.68 10		1053.25 9		1207.23 11	1568.83 12
934.22 8		1053.30 8		1213.55 8	1599.47 9
938.37 7		1053.31 14		1229.19 11	1632.19 12
940.30 11		1056.24 9		1248.70 8	1634.43 12
944.20? 11		1058.46 11		1268.65 9	1640.41 12
946.20 12		1065.92 8		1279.03 11	1657.13 12
948.71 14		1070.79 11		1280.90 12	1664.89 12
951.18 8		1074.85 9		1292.02 11	1672.93 12
962.46 9		1088.90 11		1295.83 11	

[†] From least-squares fit to Eγ's.[‡] Based primarily on population and depopulation of levels, and on γ-ray multiplicities, except as noted. $\gamma(^{196}\text{Au})$

E _i (level)	J _i ^π	E _γ [#]	I _γ [†]	E _f	J _f ^π	Mult. [@]
84.63	5 ⁺	84.7 1		0.0	2 ⁻	
162.56	2 ⁻ , 3 ⁻	120.7 & 1	≤2	41.86	0 ⁻	
		156.1 & 1	≤5	6.48	1 ⁻	
		162.6 1	100	0.0	2 ⁻	M1
166.40	1 ⁻	124.5 1	4.4	41.86	0 ⁻	M1
		159.8 & 1	≤1	6.48	1 ⁻	
		166.4 1	100	0.0	2 ⁻	M1
167.43	1 ⁻ , 2 ⁻	125.6 & 1	≤6	41.86	0 ⁻	
		160.9 1	100	6.48	1 ⁻	M1
		167.5 & 1	≤10	0.0	2 ⁻	
197.97	1 ⁻ , 2 ⁻	31.6 & 1	6 [‡]	166.40	1 ⁻	(M1)
		156.4 1	20	41.86	0 ⁻	
		191.5 1	100	6.48	1 ⁻	
		198.0 1	44	0.0	2 ⁻	
212.80	4 ⁻	50.2 & 1	0.1 [‡]	162.56	2 ⁻ , 3 ⁻	(E2)
		170.9 & 1	≤1	41.86	0 ⁻	
		206.3 & 1	≤1	6.48	1 ⁻	

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ **2000Gr32** (continued) $\gamma(^{196}\text{Au})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ #	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	Comments
212.80	4 ⁻	212.8 <i>I</i>	100	0.0	2 ⁻	E2	
232.49	7 ⁺	147.8 <i>I</i>		84.63	5 ⁺		
234.53	3 ⁻	192.7 & <i>I</i>	≤1	41.86	0 ⁻		
		228.0 <i>I</i>	18	6.48	1 ⁻	E2	
		234.5 <i>I</i>	100	0.0	2 ⁻	M1	
252.58	1 ⁻	18.1 & <i>I</i>	0.005 [‡]	234.53	3 ⁻		
		86.2 <i>I</i>	30	166.40	1 ⁻		
		90.0 <i>I</i>	15	162.56	2 ⁻ ,3 ⁻		
		210.7 <i>I</i>	≈10	41.86	0 ⁻		
		246.1 <i>I</i>	100	6.48	1 ⁻		
		252.6 <i>I</i>	64	0.0	2 ⁻		
258.61	1 ⁻ ,2 ⁻	91.2 <i>I</i>		167.43	1 ⁻ ,2 ⁻		
		216.7 <i>I</i>	100	41.86	0 ⁻		
		252.1 <i>I</i>	70	6.48	1 ⁻		
		258.6 <i>I</i>	25	0.0	2 ⁻		
288.06	2 ⁻	120.6 <i>I</i>	5	167.43	1 ⁻ ,2 ⁻		
		121.8 & <i>I</i>	≤2	166.40	1 ⁻		
		125.5 & <i>I</i>	≤2	162.56	2 ⁻ ,3 ⁻		
		246.2 <i>I</i>	19	41.86	0 ⁻		
		281.6 <i>I</i>	100	6.48	1 ⁻	M1	
		288.2 & <i>I</i>	≤2	0.0	2 ⁻		
298.56	1 ⁻ ,2 ⁻	131.2 <i>I</i>	≈15	167.43	1 ⁻ ,2 ⁻		
		132.2 <i>I</i>	42	166.40	1 ⁻		
		256.6 <i>I</i>	71	41.86	0 ⁻		
		292.1 <i>I</i>	100	6.48	1 ⁻		
		298.4 <i>I</i>	≈20	0.0	2 ⁻		
307.22	2 ⁻	139.7 <i>I</i>	15	167.43	1 ⁻ ,2 ⁻		
		140.8 & <i>I</i>	≤5	166.40	1 ⁻		
		144.5 & <i>I</i>	≤1	162.56	2 ⁻ ,3 ⁻		
		265.4 & <i>I</i>	≤2	41.86	0 ⁻		E_γ : 258.8 in 2000Gr32 seems to be a misprint.
		300.7 <i>I</i>	100	6.48	1 ⁻		
		307.2 & <i>I</i>	≤5	0.0	2 ⁻		
323.83	1 ⁻	110.9 & <i>I</i>	≤3	212.80	4 ⁻		
		125.9 <i>I</i>	4	197.97	1 ⁻ ,2 ⁻		
		156.4 <i>I</i>	9	167.43	1 ⁻ ,2 ⁻		
		157.3 <i>I</i>	24	166.40	1 ⁻		
		161.1 & <i>I</i>	≤6	162.56	2 ⁻ ,3 ⁻		
		281.9 <i>I</i>	100	41.86	0 ⁻	M1	
		317.2 & <i>I</i>	8	6.48	1 ⁻		
		323.8 & <i>I</i>	8	0.0	2 ⁻		
326.09	1 ⁻	91.6 <i>I</i>		234.53	3 ⁻		
		158.7 & <i>I</i>	≤2	167.43	1 ⁻ ,2 ⁻		
		159.8 & <i>I</i>	≤2	166.40	1 ⁻		
		163.5 <i>I</i>	8	162.56	2 ⁻ ,3 ⁻		
		284.2 & <i>I</i>	≤3	41.86	0 ⁻		
		319.6 <i>I</i>	70	6.48	1 ⁻		
		326.2 <i>I</i>	100	0.0	2 ⁻		
348.37	5 ⁺ ,6 ⁺	263.7 <i>I</i>		84.63	5 ⁺		
349.17	2 ⁻	114.6 <i>I</i>	≈2	234.53	3 ⁻	M1	
		136.3 & <i>I</i>	≤1	212.80	4 ⁻		
		151.2 & <i>I</i>	≈4	197.97	1 ⁻ ,2 ⁻		

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ **2000Gr32** (continued) $\gamma(^{196}\text{Au})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	Comments
349.17	2 ⁻	181.7 & I	≈8	167.43	1 ⁻ ,2 ⁻		
		182.8 I	100	166.40	1 ⁻	M1	(183γ)(166γ)(θ): A ₂ =-0.15 9, A ₄ =+0.06 10.
		186.5 & I	≤2	162.56	2 ⁻ ,3 ⁻		
		307.3 & I	≤2	41.86	0 ⁻		
		342.8 I	19	6.48	1 ⁻		
		349.2 I	13	0.0	2 ⁻		
355.91?	(0 ⁻)	97.3 & I	100	258.61	1 ⁻ ,2 ⁻		
370.11	(6,7) ⁺	137.6 I		232.49	7 ⁺		
		285.5 I		84.63	5 ⁺		
375.61	3 ⁻	141.0 I	2.9	234.53	3 ⁻		
		162.7 I	16	212.80	4 ⁻	M1	I _γ : 6 for 162.7γ and 16 for 208.3γ in figure 12 of 2000Gr32 are misprints confirmed by e-mail in July 2001 from one of the authors (Guenther).
		208.3 I	6	167.43	1 ⁻ ,2 ⁻		
		375.7 I	100	0.0	2 ⁻		
388.21	3 ⁺	175.4 I	0.90 9	212.80	4 ⁻		
		303.6 I	100	84.63	5 ⁺		
		388.2 I	4.8 5	0.0	2 ⁻		
400.79	6 ⁺	30.7 I		370.11	(6,7) ⁺		
		168.3 I		232.49	7 ⁺		
		316.2 I		84.63	5 ⁺		
403.79	3 ⁻ ,4 ⁻	169.3 I	≈2	234.53	3 ⁻		
		191.0 I	≈4	212.80	4 ⁻		
		236.3 & I	≤1	167.43	1 ⁻ ,2 ⁻		
		237.4 & I	≤1	166.40	1 ⁻		
		241.1 I	11	162.56	2 ⁻ ,3 ⁻		
		361.9 & I	≤2	41.86	0 ⁻		
		397.2 & I	≤2	6.48	1 ⁻		
		403.8 I	100	0.0	2 ⁻		
408.36	0 ⁻ to 3 ⁻	120.3 I	≈5	288.06	2 ⁻		
		155.8 I		252.58	1 ⁻		
		210.4 I	100	197.97	1 ⁻ ,2 ⁻		
		240.6 I	≈25	167.43	1 ⁻ ,2 ⁻		E _γ : level-energy difference=240.9.
		242.2 I	≈25	166.40	1 ⁻		
413.74	2 ⁻	106.6 I		307.22	2 ⁻		
		125.6 I	≈2	288.06	2 ⁻		
		215.8 I	100	197.97	1 ⁻ ,2 ⁻		
		247.2 I	≈15	166.40	1 ⁻		
420.71	8 ⁺	19.9 I		400.79	6 ⁺		
		50.6 I		370.11	(6,7) ⁺		
		188.2 I		232.49	7 ⁺		
423.63	4 ⁺ ,5 ⁺	339.0 I		84.63	5 ⁺		
456.44	2 ⁻	107.5 I		349.17	2 ⁻		
		132.7 I	≈10	323.83	1 ⁻		
		197.8 I	41	258.61	1 ⁻ ,2 ⁻		
		203.8 I	49	252.58	1 ⁻		
		221.7 I	8	234.53	3 ⁻		
		289.0 I	34	167.43	1 ⁻ ,2 ⁻		
		290.0 I	100	166.40	1 ⁻		
		293.8 & I	≤8	162.56	2 ⁻ ,3 ⁻		
467.09	3 ⁺ ,4 ⁺	78.9 I		388.21	3 ⁺		
		382.5 I		84.63	5 ⁺		
480.29	(2 ⁻)	104.6 I		375.61	3 ⁻		

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32 (continued) $\gamma(^{196}\text{Au})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @
480.29	(2 ⁻)	131.2 <i>I</i>	≈ 3	349.17	2 ⁻	
		192.3 <i>I</i>	≈ 3	288.06	2 ⁻	
		227.7 <i>I</i>	16	252.58	1 ⁻	
		245.8 <i>I</i>	≈ 5	234.53	3 ⁻	
		312.9 & <i>I</i>	≤ 3	167.43	1 ⁻ , 2 ⁻	
		473.8 <i>I</i>	7	6.48	1 ⁻	
		480.2 <i>I</i>	100	0.0	2 ⁻	
490.19	3 ⁻	141.0 <i>I</i>	20	349.17	2 ⁻	M1
		183.2 <i>I</i>	≤ 12	307.22	2 ⁻	
		202.0 <i>I</i>	18	288.06	2 ⁻	
		237.6 <i>I</i>	20	252.58	1 ⁻	
		255.7 <i>I</i>	≤ 5	234.53	3 ⁻	
		322.7 <i>I</i>	≈ 15	167.43	1 ⁻ , 2 ⁻	
		323.7 <i>I</i>	≈ 15	166.40	1 ⁻	
		327.7 <i>I</i>	≈ 13	162.56	2 ⁻ , 3 ⁻	
		448.3 & <i>I</i>	≤ 5	41.86	0 ⁻	
		483.7 <i>I</i>	9	6.48	1 ⁻	
		490.2 <i>I</i>	100	0.0	2 ⁻	
491.19	1 ⁻ to 4 ⁻	115.5 <i>I</i>		375.61	3 ⁻	
		293.3 <i>I</i>	100	197.97	1 ⁻ , 2 ⁻	
491.62		259.1 <i>I</i>		232.49	7 ⁺	
499.69		98.9 <i>I</i>		400.79	6 ⁺	
501.63		177.8 <i>I</i>		323.83	1 ⁻	
		242.9 & <i>I</i>		258.61	1 ⁻ , 2 ⁻	
502.75		102.0 <i>I</i>		400.79	6 ⁺	
		132.6 <i>I</i>		370.11	(6,7) ⁺	
518.02	4 ⁺ , 5 ⁺	94.3 <i>I</i>		423.63	4 ⁺ , 5 ⁺	
		129.8 <i>I</i>		388.21	3 ⁺	
		169.7 <i>I</i>		348.37	5 ⁺ , 6 ⁺	
		433.4 <i>I</i>		84.63	5 ⁺	
520.50	3 ⁻	144.8		375.61	3 ⁻	
		171.4 <i>I</i>		349.17	2 ⁻	
		213.2 <i>I</i>		307.22	2 ⁻	
		267.8 <i>I</i>		252.58	1 ⁻	
		307.8 <i>I</i>		212.80	4 ⁻	
542.40		218.4 <i>I</i>		323.83	1 ⁻	
		283.9 <i>I</i>		258.61	1 ⁻ , 2 ⁻	
		375.0 <i>I</i>		167.43	1 ⁻ , 2 ⁻	
		376.0 <i>I</i>		166.40	1 ⁻	
550.79		127.2 <i>I</i>		423.63	4 ⁺ , 5 ⁺	
		162.6 <i>I</i>		388.21	3 ⁺	
		202.4 & <i>I</i>		348.37	5 ⁺ , 6 ⁺	
551.70		338.9 & <i>I</i>		212.80	4 ⁻	
		385.3 <i>I</i>		166.40	1 ⁻	
564.04		214.7 <i>I</i>		349.17	2 ⁻	
		240.2 <i>I</i>		323.83	1 ⁻	
		256.9 <i>I</i>		307.22	2 ⁻	
		366.2 <i>I</i>		197.97	1 ⁻ , 2 ⁻	
		397.6 <i>I</i>		166.40	1 ⁻	
565.24		151.3 & <i>I</i>		413.74	2 ⁻	
		216.0 <i>I</i>		349.17	2 ⁻	
		277.2 <i>I</i>		288.06	2 ⁻	
		352.5 <i>I</i>		212.80	4 ⁻	
568.62		193.1 <i>I</i>		375.61	3 ⁻	

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ **2000Gr32** (continued) $\gamma(^{196}\text{Au})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ #	E_f	J_f^π	Comments
568.62		334.2 <i>I</i>	234.53	3 ⁻	(334 γ)(234 γ)(θ): $A_2=-0.19$ 9, $A_4=+0.02$ 12.
		355.9 & <i>I</i>	212.80	4 ⁻	
		401.1 <i>I</i>	167.43	1 ⁻ ,2 ⁻	
		406.0 <i>I</i>	162.56	2 ⁻ ,3 ⁻	
569.91	1 ⁻ ,2 ⁻ ,3 ⁻	245.9 <i>I</i>	323.83	1 ⁻	(246 γ)(282 γ)(θ): $A_2=-0.17$ 9, $A_4=+0.08$ 12.
		372.1 <i>I</i>	197.97	1 ⁻ ,2 ⁻	
		402.5 <i>I</i>	167.43	1 ⁻ ,2 ⁻	
		403.5 <i>I</i>	166.40	1 ⁻	
571.40	(4 ⁻)	336.8 <i>I</i>	234.53	3 ⁻	(337 γ)(234 γ)(θ): $A_2=-0.23$ 9, $A_4=+0.08$ 11.
		358.6 <i>I</i>	212.80	4 ⁻	(359 γ)(213 γ)(θ): $A_2=-0.38$ 10, $A_4=-0.12$ 10.
		408.9 <i>I</i>	162.56	2 ⁻ ,3 ⁻	
575.71		226.6 <i>I</i>	349.17	2 ⁻	
		268.4 <i>I</i>	307.22	2 ⁻	
		323.4 <i>I</i>	252.58	1 ⁻	
		377.6 <i>I</i>	197.97	1 ⁻ ,2 ⁻	
		409.4 & <i>I</i>	166.40	1 ⁻	
587.54		186.8 <i>I</i>	400.79	6 ⁺	
		355.0 <i>I</i>	232.49	7 ⁺	
598.05		177.3 <i>I</i>	420.71	8 ⁺	
		365.6 <i>I</i>	232.49	7 ⁺	
625.19	(4 ⁻)	221.4 <i>I</i>	403.79	3 ⁻ ,4 ⁻	
		299.0 <i>I</i>	326.09	1 ⁻	
		390.6 <i>I</i>	234.53	3 ⁻	(391 γ)(228 γ)(θ): $A_2=-0.23$ 10, $A_4=-0.10$ 11.
					(391 γ)(234 γ)(θ): $A_2=+0.03$ 9, $A_4=+0.24$ 12.
					(463 γ)(163 γ)(θ): $A_2=-0.26$ 9, $A_4=+0.17$ 11.
		462.7 <i>I</i>	162.56	2 ⁻ ,3 ⁻	
627.09		226.3 <i>I</i>	400.79	6 ⁺	
635.66		227.2 <i>I</i>	408.36	0 ⁻ to 3 ⁻	
		260.0 <i>I</i>	375.61	3 ⁻	
		286.4 <i>I</i>	349.17	2 ⁻	
		311.9 <i>I</i>	323.83	1 ⁻	
		469.4 <i>I</i>	166.40	1 ⁻	
636.56		118.5 <i>I</i>	518.02	4 ⁺ ,5 ⁺	
		213.0 <i>I</i>	423.63	4 ⁺ ,5 ⁺	
637.83		224.1 <i>I</i>	413.74	2 ⁻	
		234.2 <i>I</i>	403.79	3 ⁻ ,4 ⁻	
		288.6 <i>I</i>	349.17	2 ⁻	
		349.8 <i>I</i>	288.06	2 ⁻	
		385.2 <i>I</i>	252.58	1 ⁻	
		425.0 <i>I</i>	212.80	4 ⁻	
		470.3 <i>I</i>	167.43	1 ⁻ ,2 ⁻	
640.61		219.9 <i>I</i>	420.71	8 ⁺	
645.46		297.1 <i>I</i>	348.37	5 ⁺ ,6 ⁺	
645.51		275.4 <i>I</i>	370.11	(6,7) ⁺	
651.41		327.6 <i>I</i>	323.83	1 ⁻	
		392.7 <i>I</i>	258.61	1 ⁻ ,2 ⁻	
		453.5 <i>I</i>	197.97	1 ⁻ ,2 ⁻	
657.89		425.4 <i>I</i>	232.49	7 ⁺	
662.53		238.9 <i>I</i>	423.63	4 ⁺ ,5 ⁺	
		314.1 & <i>I</i>	348.37	5 ⁺ ,6 ⁺	
668.73	(3 ⁻)	178.5 <i>I</i>	490.19	3 ⁻	
		254.7 <i>I</i>	413.74	2 ⁻	
		293.2 <i>I</i>	375.61	3 ⁻	
		319.6 <i>I</i>	349.17	2 ⁻	
		342.7 <i>I</i>	326.09	1 ⁻	
		361.7 & <i>I</i>	307.22	2 ⁻	

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ **2000Gr32** (continued) $\gamma(^{196}\text{Au})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	E_f	J_f^π	Comments
668.73	(3^-)	380.8 <i>I</i>	288.06	2^-	
		416.1 <i>I</i>	252.58	1^-	
		434.3 <i>I</i>	234.53	3^-	$(434\gamma)(234\gamma)(\theta): A_2=+0.06 \ 10, A_4=+0.36 \ 14.$
		456.0 <i>I</i>	212.80	4^-	
		470.7 <i>I</i>	197.97	$1^-,2^-$	
		501.2 <i>I</i>	167.43	$1^-,2^-$	
		506.2 <i>I</i>	162.56	$2^-,3^-$	
672.79		302.6 <i>I</i>	370.11	$(6,7)^+$	
		440.3 <i>I</i>	232.49	7^+	
680.46	4^-	190.4 <i>I</i>	490.19	3^-	
		276.7 <i>I</i>	403.79	$3^-,4^-$	
		304.9 <i>I</i>	375.61	3^-	
		331.2 <i>I</i>	349.17	2^-	
		445.9 <i>I</i>	234.53	3^-	
		467.5 <i>I</i>	212.80	4^-	
		513.0 <i>I</i>	167.43	$1^-,2^-$	
688.55		274.7 <i>I</i>	413.74	2^-	
		339.4 <i>I</i>	349.17	2^-	
		364.8 <i>I</i>	323.83	1^-	
		381.4 <i>I</i>	307.22	2^-	
		389.9 <i>I</i>	298.56	$1^-,2^-$	
		490.6 <i>I</i>	197.97	$1^-,2^-$	
702.59	4^-	212.4 <i>I</i>	490.19	3^-	
		222.2 <i>I</i>	480.29	(2^-)	
		326.9 <i>I</i>	375.61	3^-	
		395.2 <i>I</i>	307.22	2^-	
		414.6 <i>I</i>	288.06	2^-	
		468.0 <i>I</i>	234.53	3^-	
		489.8 <i>I</i>	212.80	4^-	
		540.2 <i>I</i>	162.56	$2^-,3^-$	
704.39		303.6 <i>I</i>	400.79	6^+	
		471.9 <i>I</i>	232.49	7^+	
708.51	2^-	294.8 <i>I</i>	413.74	2^-	
		359.4 <i>I</i>	349.17	2^-	
		449.8 <i>I</i>	258.61	$1^-,2^-$	
713.89		246.8 <i>I</i>	467.09	$3^+,4^+$	$(714)(382\gamma)(\theta): A_2=-0.17 \ 9, A_4=+0.08 \ 12.$
		290.3 <i>I</i>	423.63	$4^+,5^+$	
		325.7 <i>I</i>	388.21	3^+	
		713.8 <i>I</i>	0.0	2^-	
714.31		293.6 <i>I</i>	420.71	8^+	
716.48		302.9 <i>I</i>	413.74	2^-	
		340.8 <i>I</i>	375.61	3^-	
		367.2 <i>I</i>	349.17	2^-	
		409.3 <i>I</i>	307.22	2^-	
		463.9 <i>I</i>	252.58	1^-	
720.39		316.5 <i>I</i>	403.79	$3^-,4^-$	
		394.4 <i>I</i>	326.09	1^-	
		485.8 <i>I</i>	234.53	3^-	$(486\gamma)(234\gamma)(\theta): A_2=-0.21 \ 9, A_4=-0.06 \ 12.$
		507.6 <i>I</i>	212.80	4^-	
		557.8 <i>I</i>	162.56	$2^-,3^-$	
720.66		297.1 <i>I</i>	423.63	$4^+,5^+$	
		332.4 <i>I</i>	388.21	3^+	
726.01		355.9 <i>I</i>	370.11	$(6,7)^+$	
		493.5 <i>I</i>	232.49	7^+	

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32 (continued) $\gamma(^{196}\text{Au})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	E_f	J_f^π
733.30	1 ⁻	319.6 <i>I</i>	413.74	2 ⁻	816.59		582.1 <i>I</i>	234.53	3 ⁻
		384.1 <i>I</i>	349.17	2 ⁻			603.7 <i>I</i>	212.80	4 ⁻
		409.5 <i>I</i>	323.83	1 ⁻			648.9 & <i>I</i>	167.43	1 ⁻ ,2 ⁻
		565.8 <i>I</i>	167.43	1 ⁻ ,2 ⁻			654.0 <i>I</i>	162.56	2 ⁻ ,3 ⁻
747.92		372.2 <i>I</i>	375.61	3 ⁻	819.46		250.9 <i>I</i>	568.62	
		459.9 <i>I</i>	288.06	2 ⁻			606.6 <i>I</i>	212.80	4 ⁻
		549.9 <i>I</i>	197.97	1 ⁻ ,2 ⁻			656.9 <i>I</i>	162.56	2 ⁻ ,3 ⁻
		580.6 <i>I</i>	167.43	1 ⁻ ,2 ⁻	841.29		440.5 <i>I</i>	400.79	6 ⁺
		581.5 <i>I</i>	166.40	1 ⁻	848.01		477.9 <i>I</i>	370.11	(6,7) ⁺
749.5?		461.4 & <i>I</i>	288.06	2 ⁻	848.06		499.7 <i>I</i>	348.37	5 ⁺ ,6 ⁺
750.59		175.0 <i>I</i>	575.71		850.18		474.6 <i>I</i>	375.61	3 ⁻
		260.3 <i>I</i>	490.19	3 ⁻			615.6 <i>I</i>	234.53	3 ⁻
		346.9 <i>I</i>	403.79	3 ⁻ ,4 ⁻	851.41		502.3 <i>I</i>	349.17	2 ⁻
		375.0 <i>I</i>	375.61	3 ⁻			544.0 <i>I</i>	307.22	2 ⁻
		424.4 <i>I</i>	326.09	1 ⁻			684.1 <i>I</i>	167.43	1 ⁻ ,2 ⁻
		588.0 <i>I</i>	162.56	2 ⁻ ,3 ⁻	852.81		482.7 <i>I</i>	370.11	(6,7) ⁺
753.05		403.9 <i>I</i>	349.17	2 ⁻	852.82		334.8 <i>I</i>	518.02	4 ⁺ ,5 ⁺
		518.5 <i>I</i>	234.53	3 ⁻			429.2 <i>I</i>	423.63	4 ⁺ ,5 ⁺
		585.8 & <i>I</i>	167.43	1 ⁻ ,2 ⁻	853.95		546.7 <i>I</i>	307.22	2 ⁻
760.66		269.0 <i>I</i>	491.62				619.5 <i>I</i>	234.53	3 ⁻
		528.2 <i>I</i>	232.49	7 ⁺			641.1 <i>I</i>	212.80	4 ⁻
769.28		393.6 <i>I</i>	375.61	3 ⁻	856.49		622.0 <i>I</i>	234.53	3 ⁻
		420.1 <i>I</i>	349.17	2 ⁻			643.7 <i>I</i>	212.80	4 ⁻
		481.3 <i>I</i>	288.06	2 ⁻			693.9 <i>I</i>	162.56	2 ⁻ ,3 ⁻
		606.7 & <i>I</i>	162.56	2 ⁻ ,3 ⁻	876.23		358.2 <i>I</i>	518.02	4 ⁺ ,5 ⁺
780.53		262.5 & <i>I</i>	518.02	4 ⁺ ,5 ⁺			452.7 & <i>I</i>	423.63	4 ⁺ ,5 ⁺
		392.4 <i>I</i>	388.21	3 ⁺			488.0 <i>I</i>	388.21	3 ⁺
		432.1 <i>I</i>	348.37	5 ⁺ ,6 ⁺	877.07		156.6 <i>I</i>	720.39	
785.72	(2 ⁻)	461.7 <i>I</i>	323.83	1 ⁻			305.7 <i>I</i>	571.40	(4 ⁻)
		551.2 <i>I</i>	234.53	3 ⁻			473.3 <i>I</i>	403.79	3 ⁻ ,4 ⁻
		587.8 <i>I</i>	197.97	1 ⁻ ,2 ⁻			664.3 <i>I</i>	212.80	4 ⁻
		618.4 <i>I</i>	167.43	1 ⁻ ,2 ⁻	881.68		557.9 <i>I</i>	323.83	1 ⁻
797.89		409.7 <i>I</i>	388.21	3 ⁺			647.1 <i>I</i>	234.53	3 ⁻
799.53	4 ⁻	279.0 <i>I</i>	520.50	3 ⁻	882.63		392.5 <i>I</i>	490.19	3 ⁻
		309.2 <i>I</i>	490.19	3 ⁻			533.4 <i>I</i>	349.17	2 ⁻
		319.4 <i>I</i>	480.29	(2 ⁻)			575.4 & <i>I</i>	307.22	2 ⁻
		395.7 <i>I</i>	403.79	3 ⁻ ,4 ⁻	883.50		513.4 <i>I</i>	370.11	(6,7) ⁺
		473.5 <i>I</i>	326.09	1 ⁻			651.0 <i>I</i>	232.49	7 ⁺
		565.0 <i>I</i>	234.53	3 ⁻	893.22	(3 ⁻)	403.0 <i>I</i>	490.19	3 ⁻
807.48		519.3 <i>I</i>	288.06	2 ⁻			725.8 <i>I</i>	167.43	1 ⁻ ,2 ⁻
		641.2 <i>I</i>	166.40	1 ⁻	895.80		472.1 <i>I</i>	423.63	4 ⁺ ,5 ⁺
807.81		289.5 & <i>I</i>	518.02	4 ⁺ ,5 ⁺			547.5 <i>I</i>	348.37	5 ⁺ ,6 ⁺
		340.8 <i>I</i>	467.09	3 ⁺ ,4 ⁺	902.04	1 ⁻	421.7 <i>I</i>	480.29	(2 ⁻)
		384.1 <i>I</i>	423.63	4 ⁺ ,5 ⁺			667.6 <i>I</i>	234.53	3 ⁻
		419.6 <i>I</i>	388.21	3 ⁺			703.8 & <i>I</i>	197.97	1 ⁻ ,2 ⁻
813.30		295.4 <i>I</i>	518.02	4 ⁺ ,5 ⁺			734.6 <i>I</i>	167.43	1 ⁻ ,2 ⁻
		389.6 <i>I</i>	423.63	4 ⁺ ,5 ⁺			735.6 <i>I</i>	166.40	1 ⁻
		464.9 <i>I</i>	348.37	5 ⁺ ,6 ⁺	907.25		440.1 <i>I</i>	467.09	3 ⁺ ,4 ⁺
815.41		394.7 <i>I</i>	420.71	8 ⁺			483.7 <i>I</i>	423.63	4 ⁺ ,5 ⁺
816.03		492.2 <i>I</i>	323.83	1 ⁻	908.27		601.1 <i>I</i>	307.22	2 ⁻
		557.4 <i>I</i>	258.61	1 ⁻ ,2 ⁻			673.8 <i>I</i>	234.53	3 ⁻
		648.9 & <i>I</i>	167.43	1 ⁻ ,2 ⁻			745.6 <i>I</i>	162.56	2 ⁻ ,3 ⁻
816.59		490.6 <i>I</i>	326.09	1 ⁻	921.52		441.2 <i>I</i>	480.29	(2 ⁻)
		509.3 & <i>I</i>	307.22	2 ⁻			517.6 <i>I</i>	403.79	3 ⁻ ,4 ⁻

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$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32 (continued) $\gamma(^{196}\text{Au})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	E_f	J_f^π
921.52		687.0 <i>I</i>	234.53	3 ⁻	1046.28		811.8 <i>I</i>	234.53	3 ⁻
		759.1 <i>I</i>	162.56	2 ⁻ ,3 ⁻	1053.25		586.2 <i>I</i>	467.09	3 ⁺ ,4 ⁺
925.64		458.6 <i>I</i>	467.09	3 ⁺ ,4 ⁺			629.6 <i>I</i>	423.63	4 ⁺ ,5 ⁺
		502.0 <i>I</i>	423.63	4 ⁺ ,5 ⁺	1053.30		765.2 <i>I</i>	288.06	2 ⁻
931.62		561.5 <i>I</i>	370.11	(6,7) ⁺			885.9 <i>I</i>	167.43	1 ⁻ ,2 ⁻
931.68		413.7 <i>I</i>	518.02	4 ⁺ ,5 ⁺	1053.31		683.2 <i>I</i>	370.11	(6,7) ⁺
		583.3 <i>I</i>	348.37	5 ⁺ ,6 ⁺	1056.24		484.8 <i>I</i>	571.40	(4 ⁻)
934.22		220.3 <i>I</i>	713.89				652.5 <i>I</i>	403.79	3 ⁻ ,4 ⁻
		383.5 <i>I</i>	550.79				843.6 & <i>I</i>	212.80	4 ⁻
		546.0 <i>I</i>	388.21	3 ⁺	1058.46		895.9 <i>I</i>	162.56	2 ⁻ ,3 ⁻
938.37		589.3 <i>I</i>	349.17	2 ⁻	1065.92		515.2 <i>I</i>	550.79	
		631.1 <i>I</i>	307.22	2 ⁻			547.8 <i>I</i>	518.02	4 ⁺ ,5 ⁺
		650.3 <i>I</i>	288.06	2 ⁻			641.9 & <i>I</i>	423.63	4 ⁺ ,5 ⁺
940.30		727.5 <i>I</i>	212.80	4 ⁻			677.7 <i>I</i>	388.21	3 ⁺
944.20?		731.4 & <i>I</i>	212.80	4 ⁻			717.6 <i>I</i>	348.37	5 ⁺ ,6 ⁺
946.20		522.7 & <i>I</i>	423.63	4 ⁺ ,5 ⁺	1070.79		667.0 <i>I</i>	403.79	3 ⁻ ,4 ⁻
		558.0 <i>I</i>	388.21	3 ⁺	1074.85		607.8 <i>I</i>	467.09	3 ⁺ ,4 ⁺
948.71		528.0 <i>I</i>	420.71	8 ⁺			686.6 <i>I</i>	388.21	3 ⁺
951.18		575.7 <i>I</i>	375.61	3 ⁻	1088.90		876.1 <i>I</i>	212.80	4 ⁻
		716.5 <i>I</i>	234.53	3 ⁻	1093.46		217.2 <i>I</i>	876.23	
962.46		444.4 <i>I</i>	518.02	4 ⁺ ,5 ⁺			575.6 <i>I</i>	518.02	4 ⁺ ,5 ⁺
		495.6 & <i>I</i>	467.09	3 ⁺ ,4 ⁺			626.4 <i>I</i>	467.09	3 ⁺ ,4 ⁺
		538.6 & <i>I</i>	423.63	4 ⁺ ,5 ⁺			669.7 <i>I</i>	423.63	4 ⁺ ,5 ⁺
		574.3 <i>I</i>	388.21	3 ⁺	1095.22		788.0 <i>I</i>	307.22	2 ⁻
967.49		342.2 <i>I</i>	625.19	(4 ⁻)			807.2 & <i>I</i>	288.06	2 ⁻
		563.8 <i>I</i>	403.79	3 ⁻ ,4 ⁻	1096.34		772.5 <i>I</i>	323.83	1 ⁻
968.94		619.9 <i>I</i>	349.17	2 ⁻	1100.90		751.7 <i>I</i>	349.17	2 ⁻
		802.4 <i>I</i>	166.40	1 ⁻			793.7 <i>I</i>	307.22	2 ⁻
980.20		462.1 <i>I</i>	518.02	4 ⁺ ,5 ⁺	1107.76		393.9 <i>I</i>	713.89	
		556.7 <i>I</i>	423.63	4 ⁺ ,5 ⁺			640.7 <i>I</i>	467.09	3 ⁺ ,4 ⁺
		592.0 <i>I</i>	388.21	3 ⁺			719.5 <i>I</i>	388.21	3 ⁺
		631.8 <i>I</i>	348.37	5 ⁺ ,6 ⁺	1120.50		127.1 & <i>I</i>	993.42	
989.04		665.2 <i>I</i>	323.83	1 ⁻			312.7 <i>I</i>	807.81	
		823.0 & <i>I</i>	166.40	1 ⁻			569.8 & <i>I</i>	550.79	
990.91	(3 ⁻)	615.3 <i>I</i>	375.61	3 ⁻			697.2 & <i>I</i>	423.63	4 ⁺ ,5 ⁺
		778.0 & <i>I</i>	212.80	4 ⁻	1121.46		958.9 <i>I</i>	162.56	2 ⁻ ,3 ⁻
991.86		703.8 <i>I</i>	288.06	2 ⁻	1134.39		730.6 <i>I</i>	403.79	3 ⁻ ,4 ⁻
992.05		524.9 <i>I</i>	467.09	3 ⁺ ,4 ⁺	1140.39		673.3 <i>I</i>	467.09	3 ⁺ ,4 ⁺
		603.9 <i>I</i>	388.21	3 ⁺			1146.93	234.53	3 ⁻
993.42		569.8 <i>I</i>	423.63	4 ⁺ ,5 ⁺	1152.90		749.0 <i>I</i>	403.79	3 ⁻ ,4 ⁻
995.53		761.0 <i>I</i>	234.53	3 ⁻			940.2 <i>I</i>	212.80	4 ⁻
1003.86		841.3 <i>I</i>	162.56	2 ⁻ ,3 ⁻	1156.60		585.2 <i>I</i>	571.40	(4 ⁻)
1004.29		678.2 <i>I</i>	326.09	1 ⁻	1174.92		916.3 <i>I</i>	258.61	1 ⁻ ,2 ⁻
1014.65		610.7 <i>I</i>	403.79	3 ⁻ ,4 ⁻	1188.79		721.7 <i>I</i>	467.09	3 ⁺ ,4 ⁺
		802.0 <i>I</i>	212.80	4 ⁻			624.8 <i>I</i>	571.40	(4 ⁻)
1017.84		694.0 <i>I</i>	323.83	1 ⁻	1198.00		774.4 <i>I</i>	423.63	4 ⁺ ,5 ⁺
1018.53		784.0 <i>I</i>	234.53	3 ⁻			849.6 <i>I</i>	348.37	5 ⁺ ,6 ⁺
1025.05		675.8 <i>I</i>	349.17	2 ⁻	1203.41		896.2 <i>I</i>	307.22	2 ⁻
		790.6 <i>I</i>	234.53	3 ⁻			990.6 <i>I</i>	212.80	4 ⁻
1045.74		721.9 <i>I</i>	323.83	1 ⁻	1207.23		972.7 <i>I</i>	234.53	3 ⁻
1046.28		248.4 <i>I</i>	797.89		1213.55		499.7 <i>I</i>	713.89	
		332.3 <i>I</i>	713.89				789.9 <i>I</i>	423.63	4 ⁺ ,5 ⁺
		495.4 <i>I</i>	550.79				825.3 <i>I</i>	388.21	3 ⁺
		658.2 <i>I</i>	388.21	3 ⁺	1229.19		825.4 <i>I</i>	403.79	3 ⁻ ,4 ⁻

Continued on next page (footnotes at end of table)

$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32 (continued) $\gamma(^{196}\text{Au})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^\#$	E_f	J_f^π	$E_i(\text{level})$	$E_\gamma^\#$	E_f	J_f^π
1248.70		758.4 <i>I</i>	490.19	3 ⁻	1347.63		1113.1 <i>I</i>	234.53	3 ⁻	1491.80	684.0 <i>I</i>	807.81	
		873.2 <i>I</i>	375.61	3 ⁻	1350.93		1116.4 <i>I</i>	234.53	3 ⁻	1522.63	1099.0 <i>I</i>	423.63	4 ⁺ ,5 ⁺
1268.65		801.6 <i>I</i>	467.09	3 ⁺ ,4 ⁺	1361.79		958.0 <i>I</i>	403.79	3 ⁻ ,4 ⁻	1552.39	1085.3 <i>I</i>	467.09	3 ⁺ ,4 ⁺
		880.4 <i>I</i>	388.21	3 ⁺	1364.47		1016.1 <i>I</i>	348.37	5 ⁺ ,6 ⁺	1568.83	1145.2 <i>I</i>	423.63	4 ⁺ ,5 ⁺
1279.03		1044.5 <i>I</i>	234.53	3 ⁻	1387.29		673.4 <i>I</i>	713.89		1599.47	1175.8 <i>I</i>	423.63	4 ⁺ ,5 ⁺
1280.90		709.5 <i>I</i>	571.40	(4 ⁻)	1403.13		979.5 <i>I</i>	423.63	4 ⁺ ,5 ⁺		1211.3 <i>I</i>	388.21	3 ⁺
1292.02		984.8 <i>I</i>	307.22	2 ⁻	1416.29		949.2 <i>I</i>	467.09	3 ⁺ ,4 ⁺	1632.19	918.3 <i>I</i>	713.89	
1295.83		1061.3 <i>I</i>	234.53	3 ⁻	1426.83		1003.2 <i>I</i>	423.63	4 ⁺ ,5 ⁺	1634.43	1210.8 <i>I</i>	423.63	4 ⁺ ,5 ⁺
1296.11		907.9 <i>I</i>	388.21	3 ⁺	1431.23		1007.6 <i>I</i>	423.63	4 ⁺ ,5 ⁺	1640.41	1252.2 <i>I</i>	388.21	3 ⁺
1298.00		1085.2 <i>I</i>	212.80	4 ⁻	1432.24		965.1 <i>I</i>	467.09	3 ⁺ ,4 ⁺	1657.13	1233.5 <i>I</i>	423.63	4 ⁺ ,5 ⁺
1337.70		870.5 <i>I</i>	467.09	3 ⁺ ,4 ⁺			1083.9 <i>I</i>	348.37	5 ⁺ ,6 ⁺	1664.89	951.0 <i>I</i>	713.89	
		914.2 <i>I</i>	423.63	4 ⁺ ,5 ⁺	1457.31		1069.1 <i>I</i>	388.21	3 ⁺	1672.93	1249.3 <i>I</i>	423.63	4 ⁺ ,5 ⁺

[†] Uncertainty is 30% (2000Gr32).

[‡] Estimated γ ray intensities from total intensities assuming M1 multipolarity for the 31.6 keV transition and E2 multipolarity for the 18.1 and 50.3 keV transitions.

[#] $\Delta E_\gamma=0.1\text{keV}$ (2000Gr32).

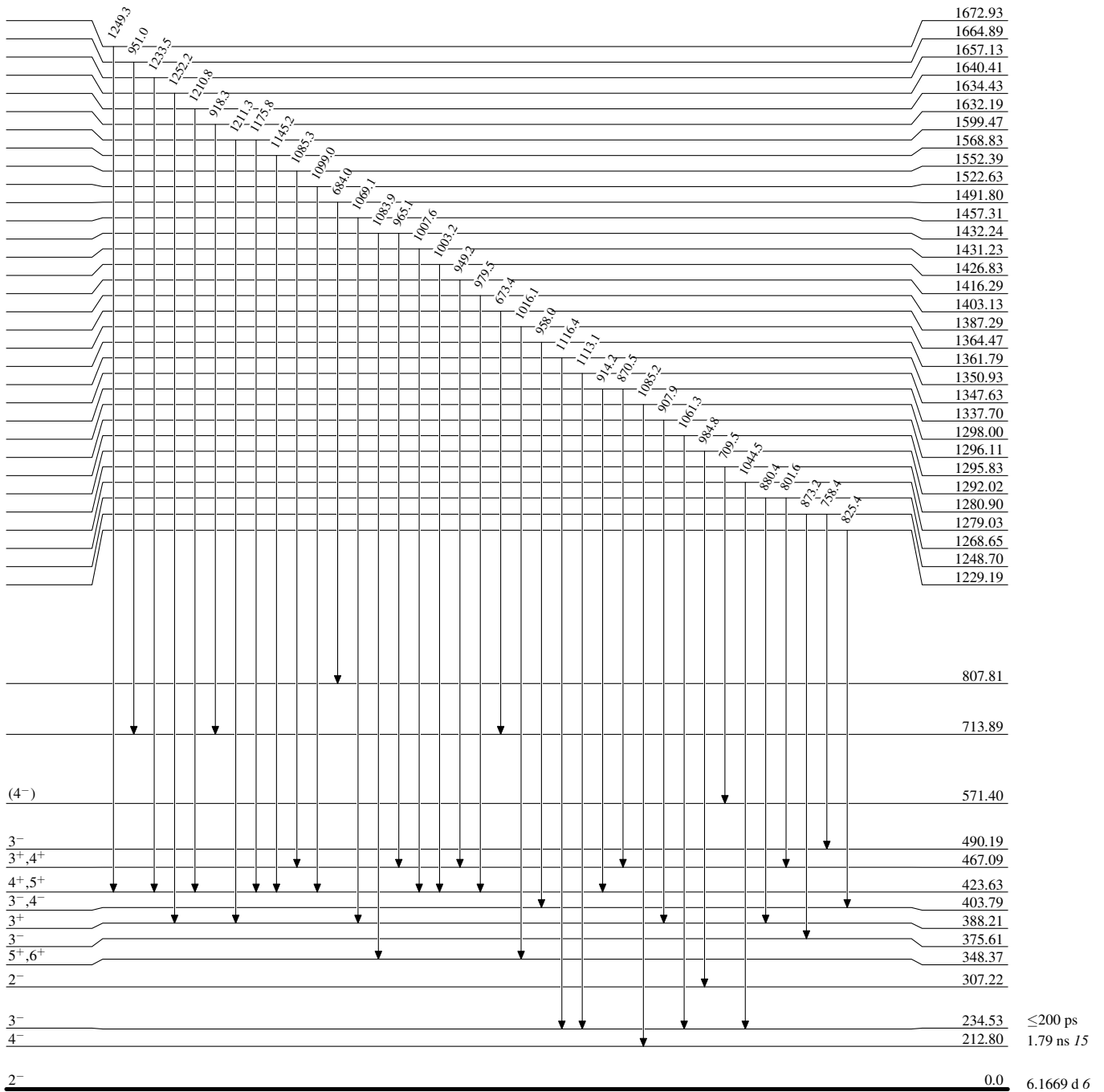
[@] From singles α and γ ray spectra in (d,2n γ).

[&] Placement of transition in the level scheme is uncertain.

$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Level Scheme

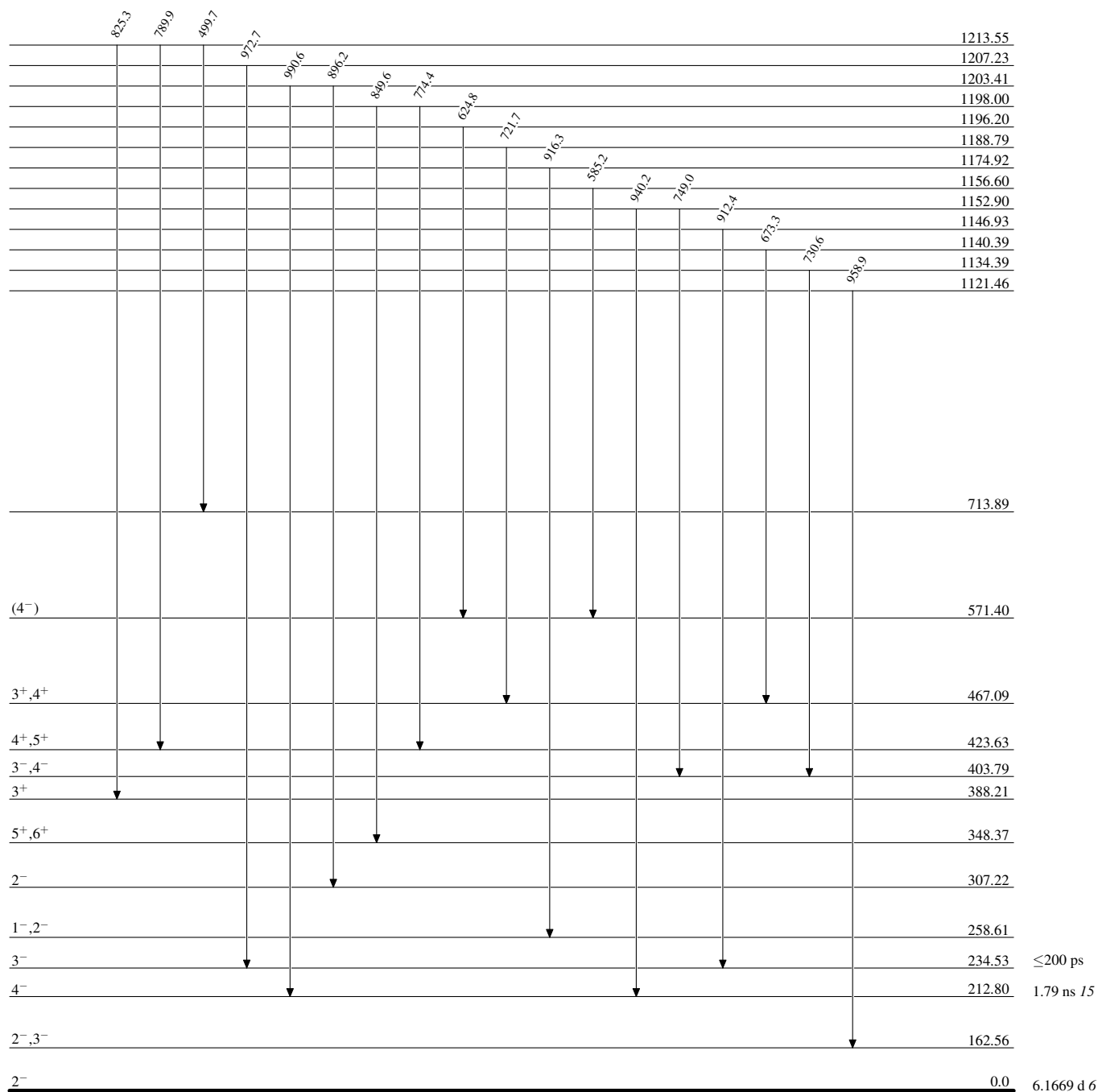
Intensities: Relative photon branching from each level



$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Level Scheme (continued)

Intensities: Relative photon branching from each level



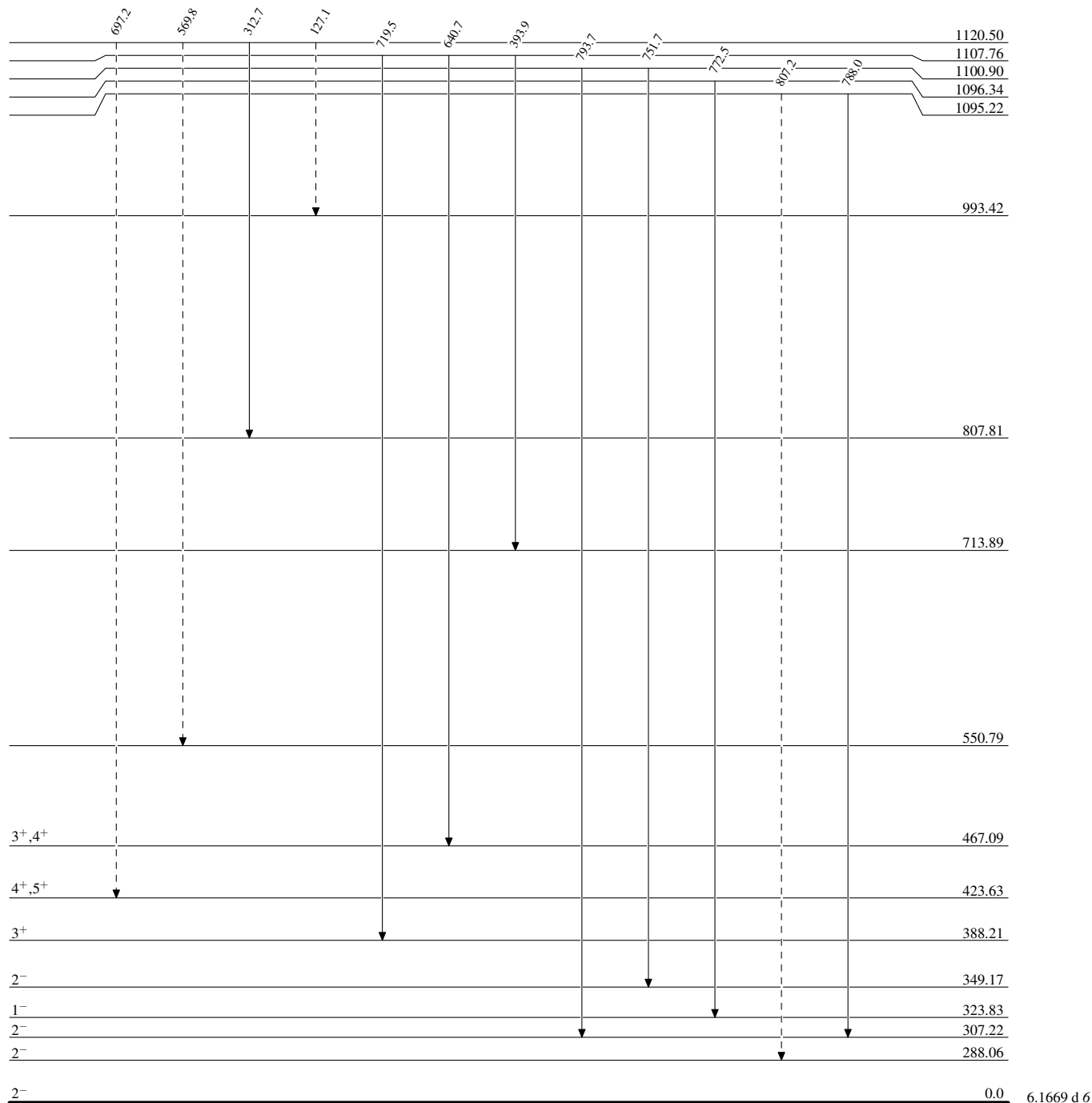
$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)



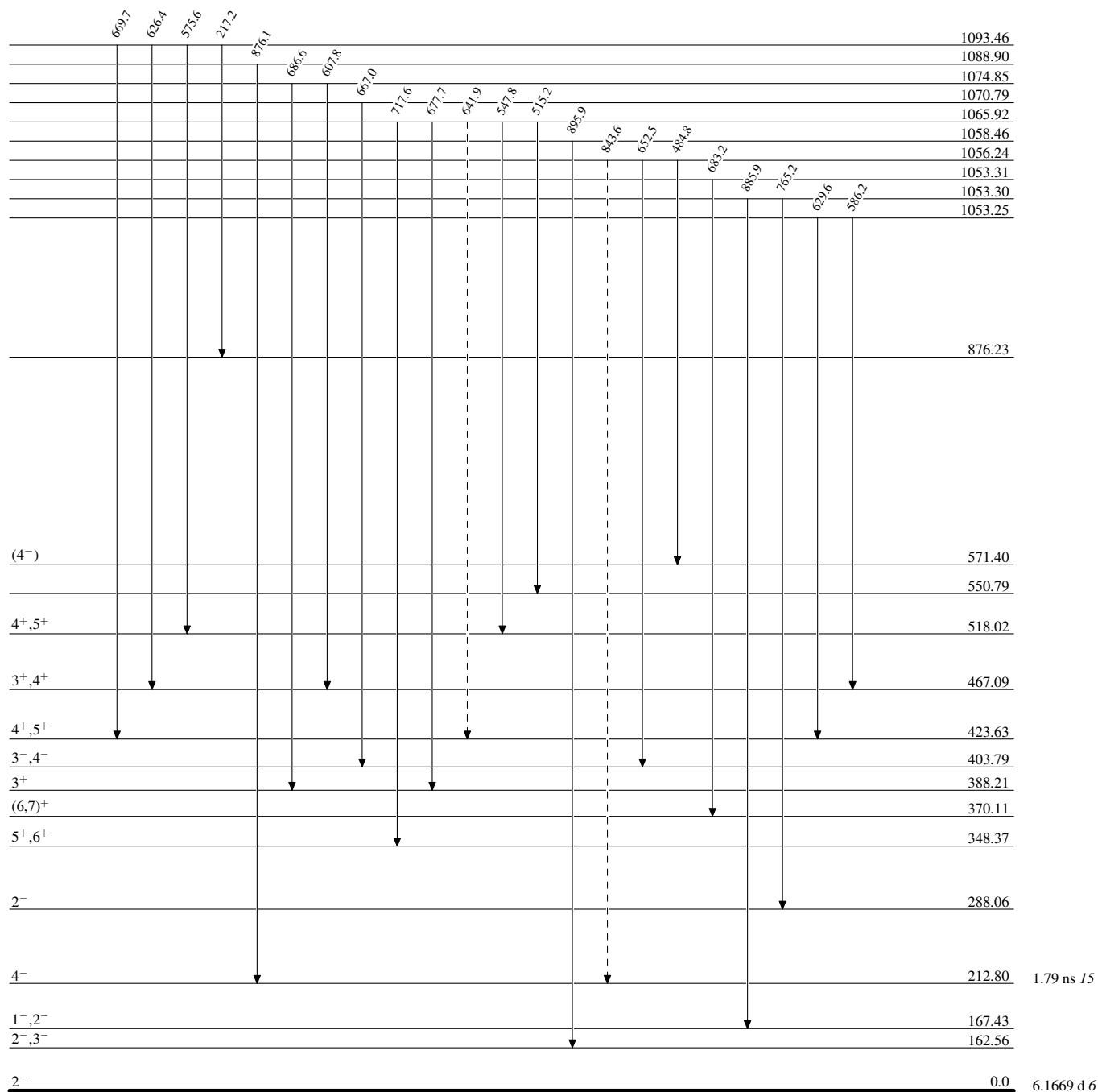
$^{196}_{79}\text{Au}_{117}$

$^{196}\text{Pt}(d,2n\gamma), (p,n\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

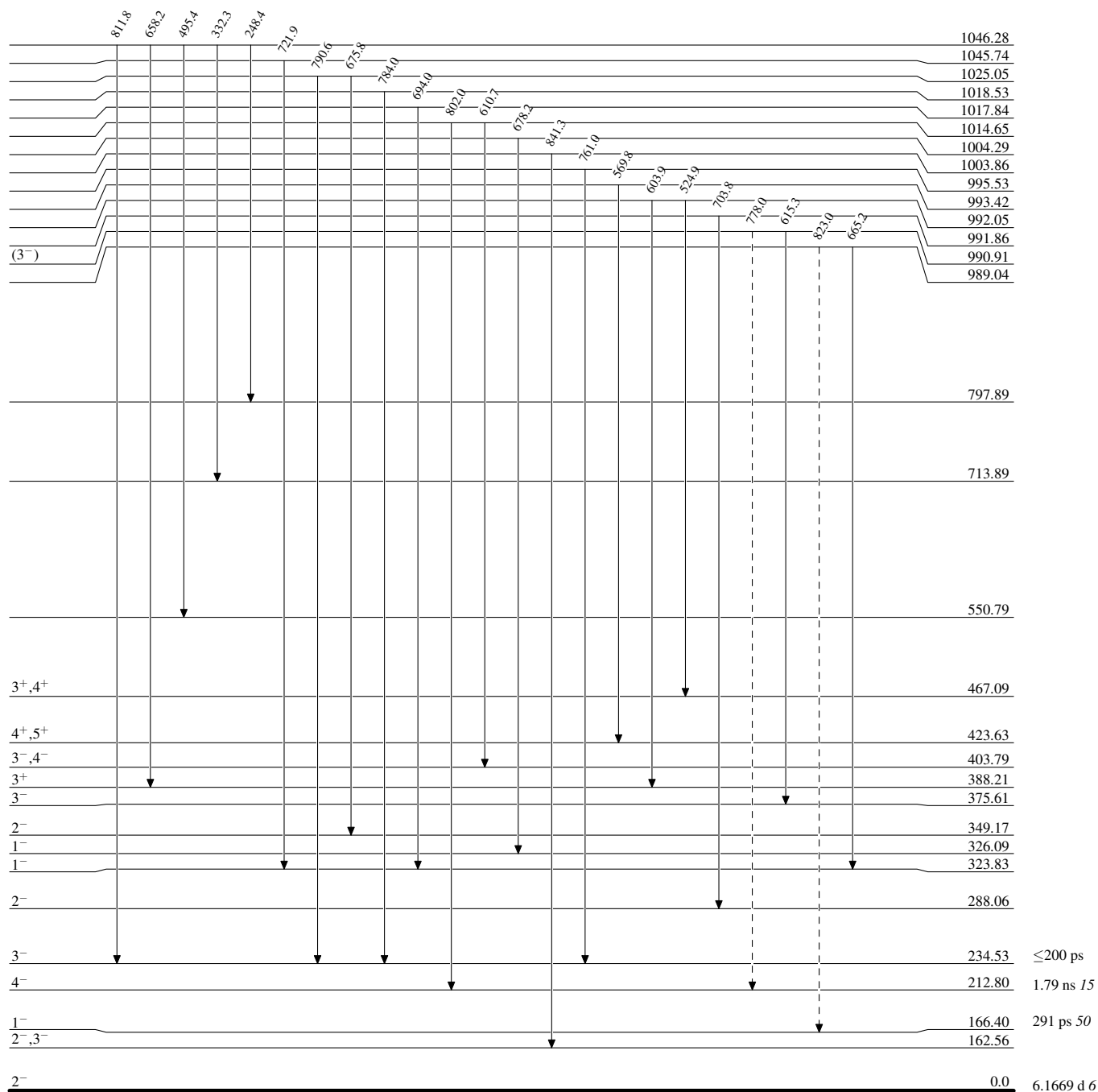
-----► γ Decay (Uncertain)

 $^{196}_{79}\text{Au}_{117}$

$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

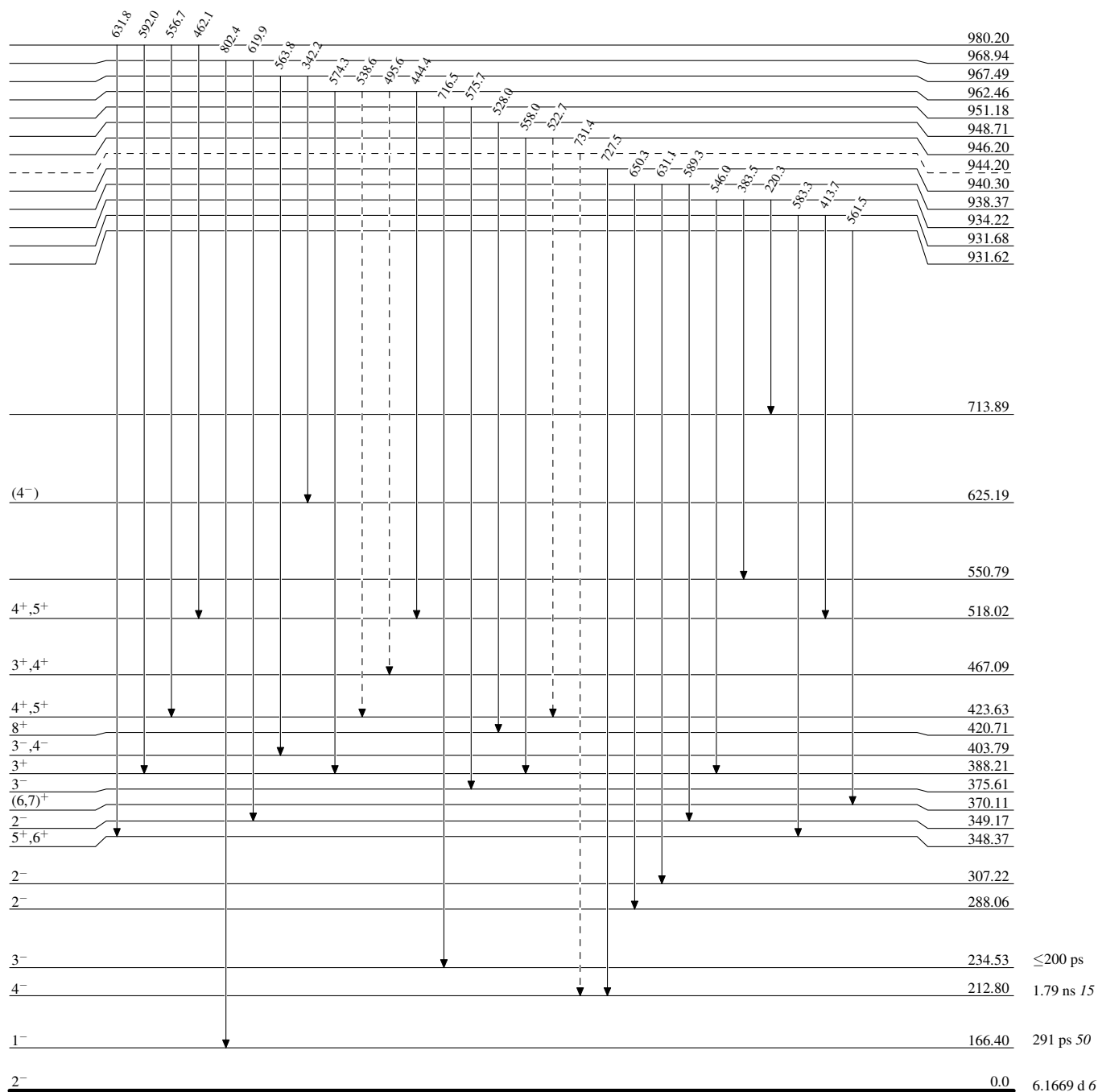
-----► γ Decay (Uncertain)


$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

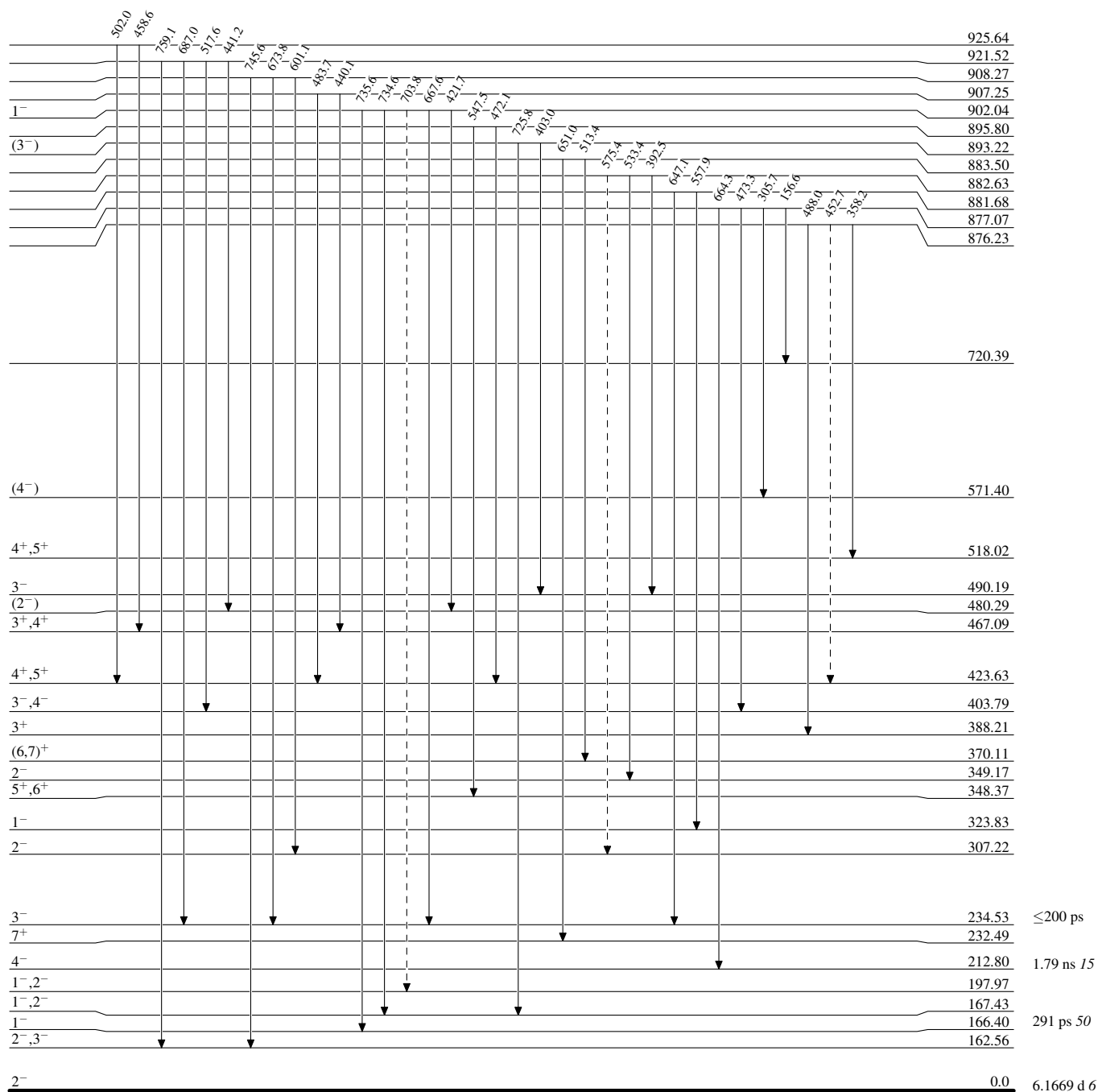
-----► γ Decay (Uncertain)


$^{196}\text{Pt}(d,2n\gamma), (p,n\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

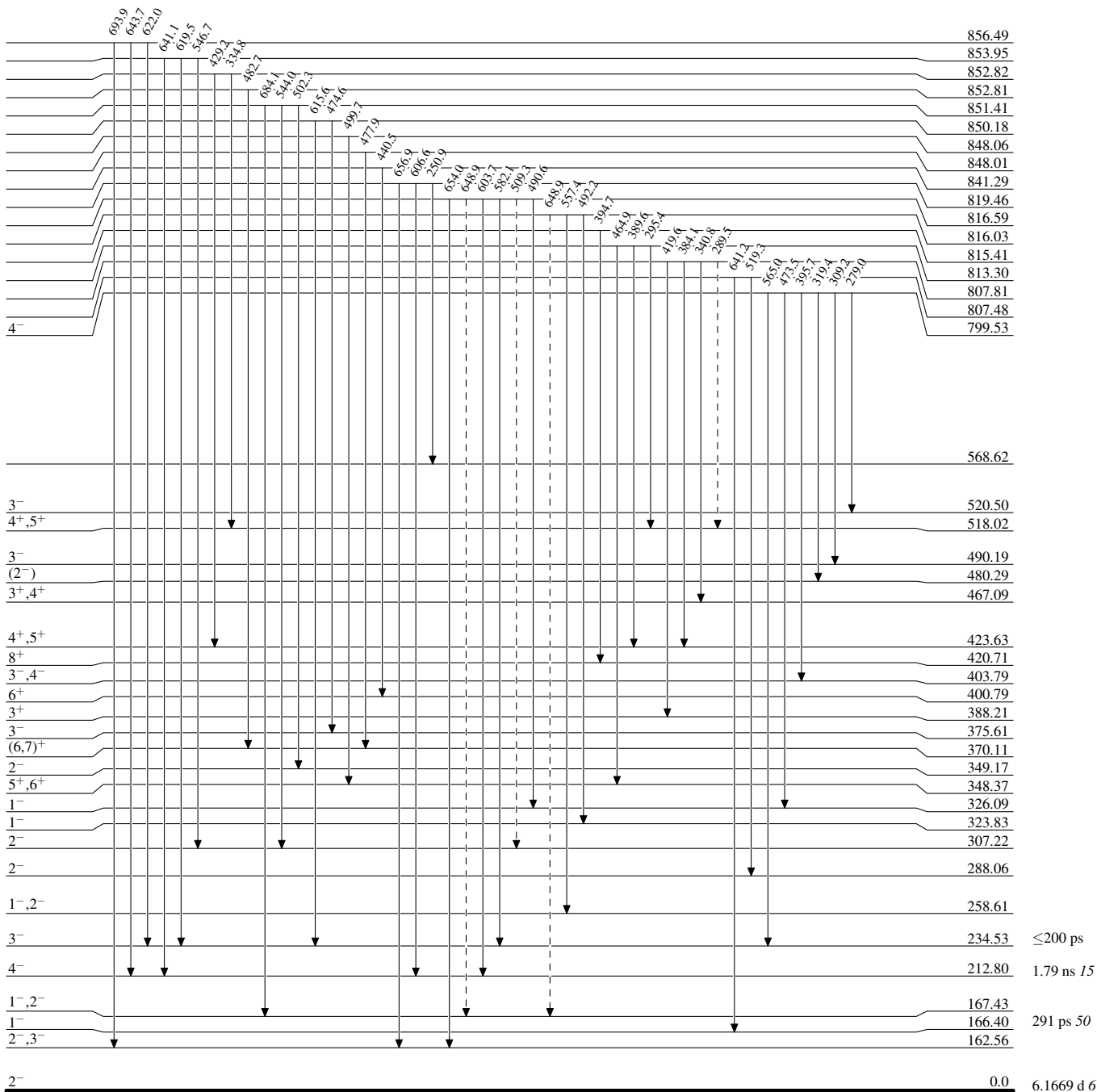
-----► γ Decay (Uncertain)


$^{196}\text{Pt}(d,2n\gamma), (p,n\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

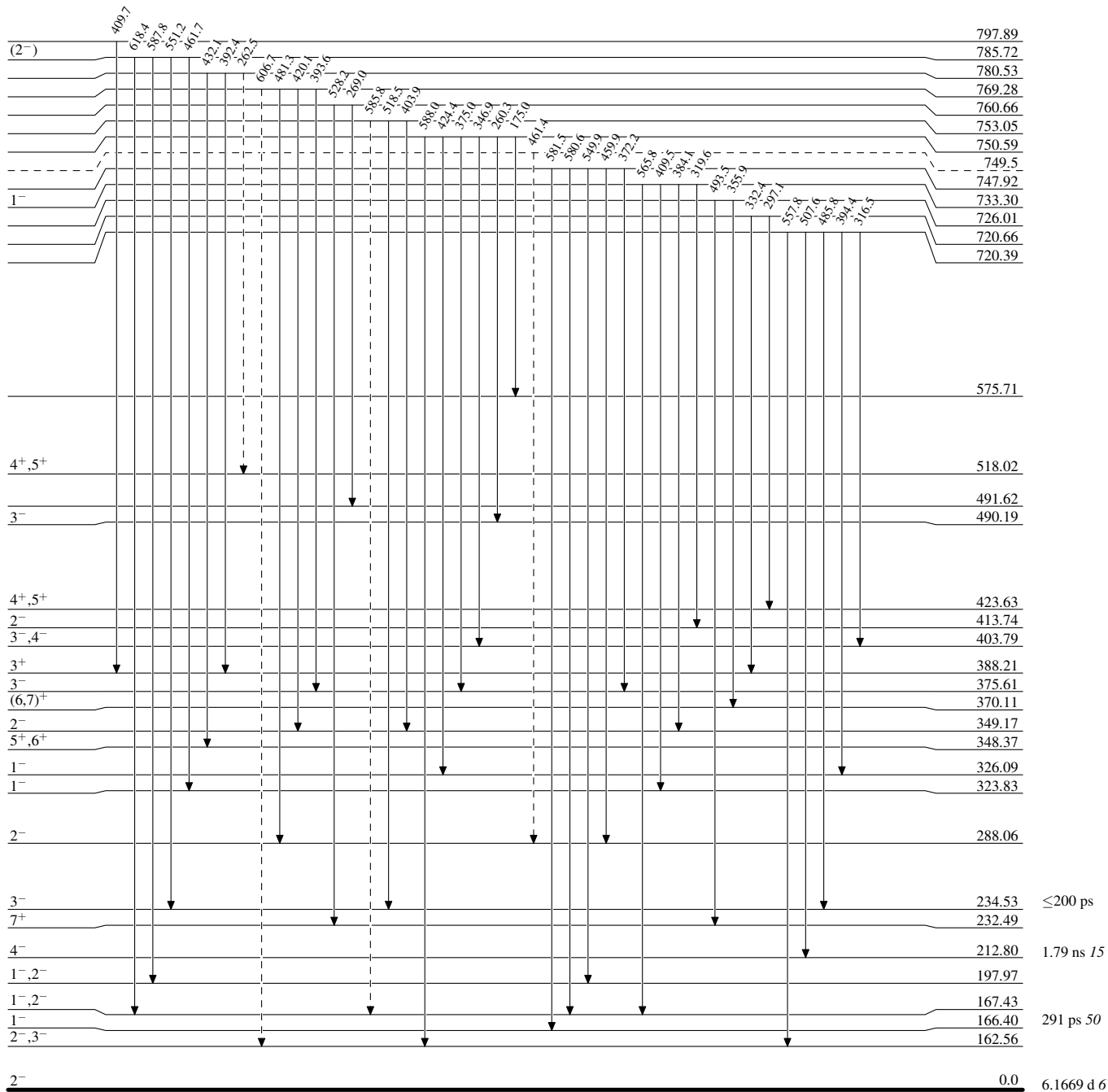
-----► γ Decay (Uncertain)


$^{196}\text{Pt}(d,2n\gamma),(p,n\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

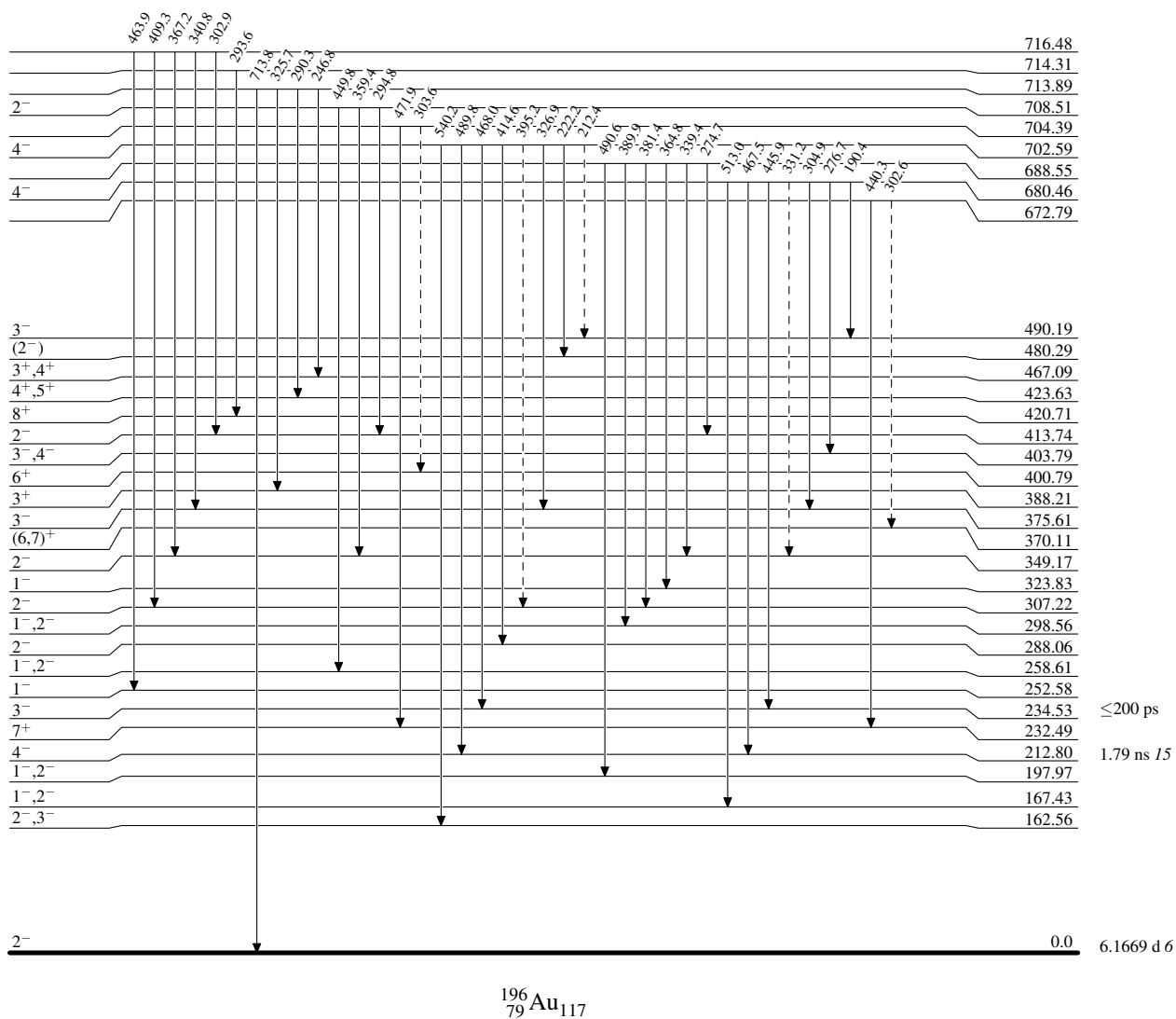
-----► γ Decay (Uncertain) $^{196}_{79}\text{Au}_{117}$

$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)

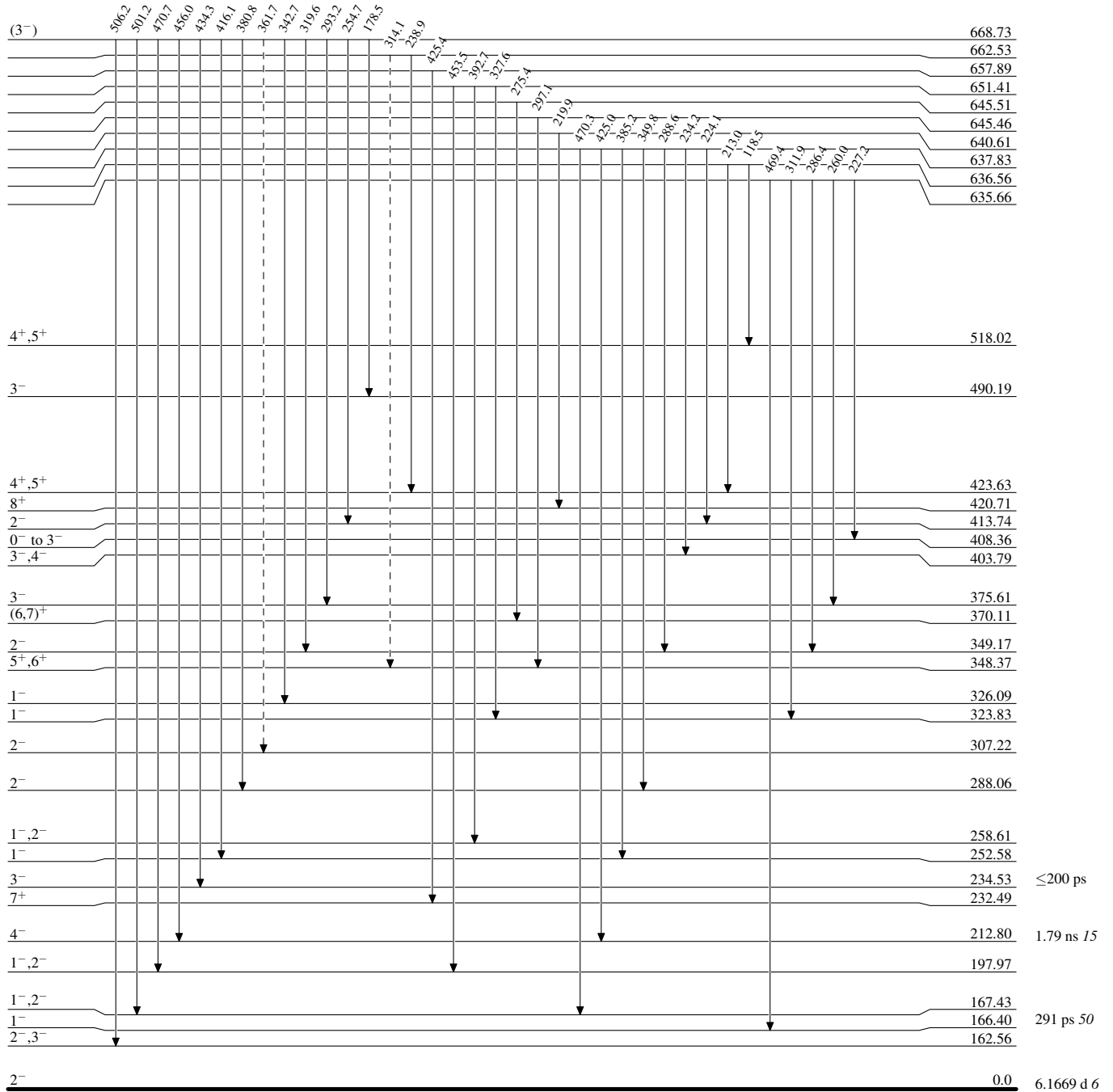
$^{196}\text{Pt}(d,2n\gamma), (p,n\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)

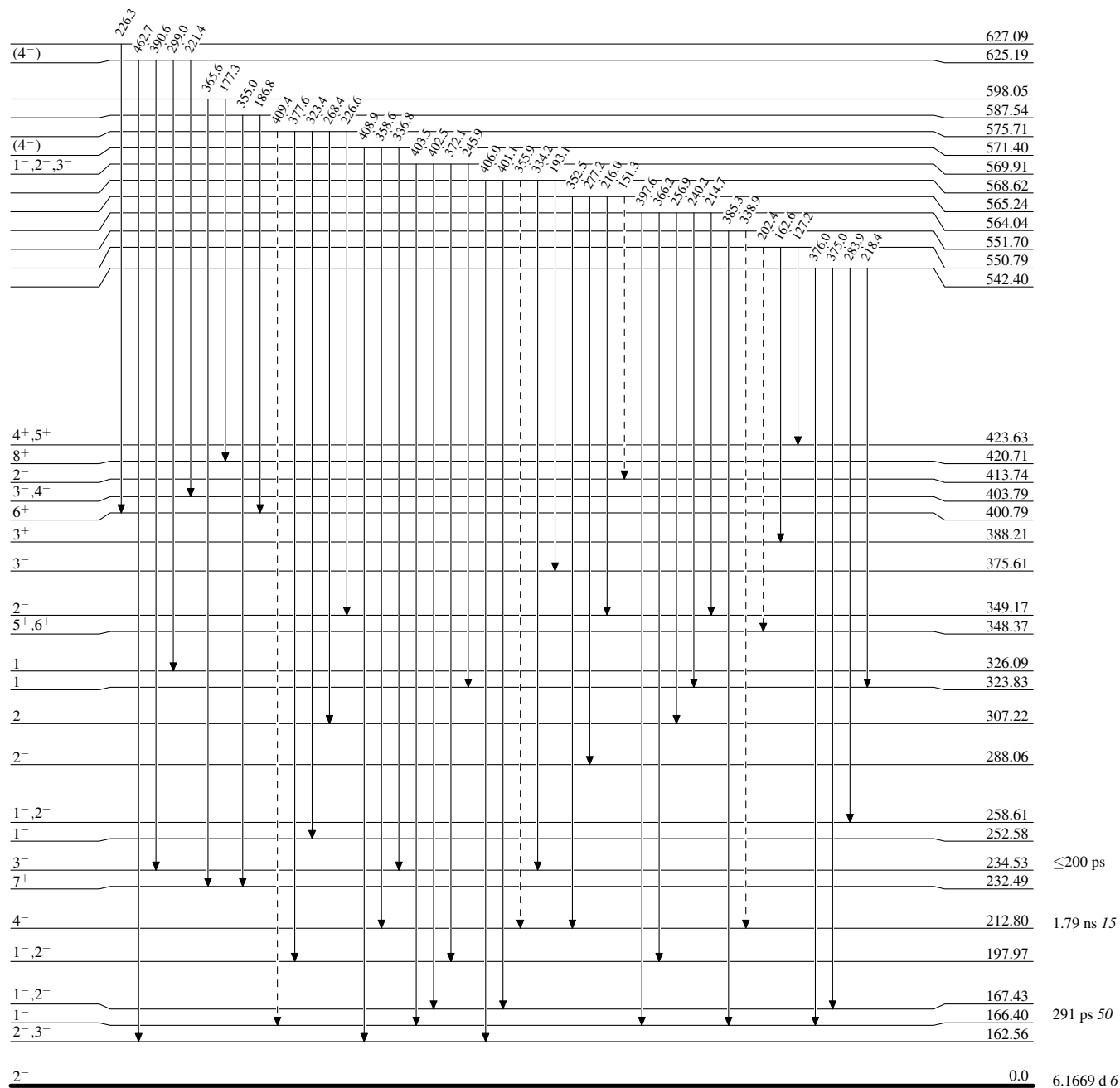


$^{196}\text{Pt}(d,2n\gamma),(p,n\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)

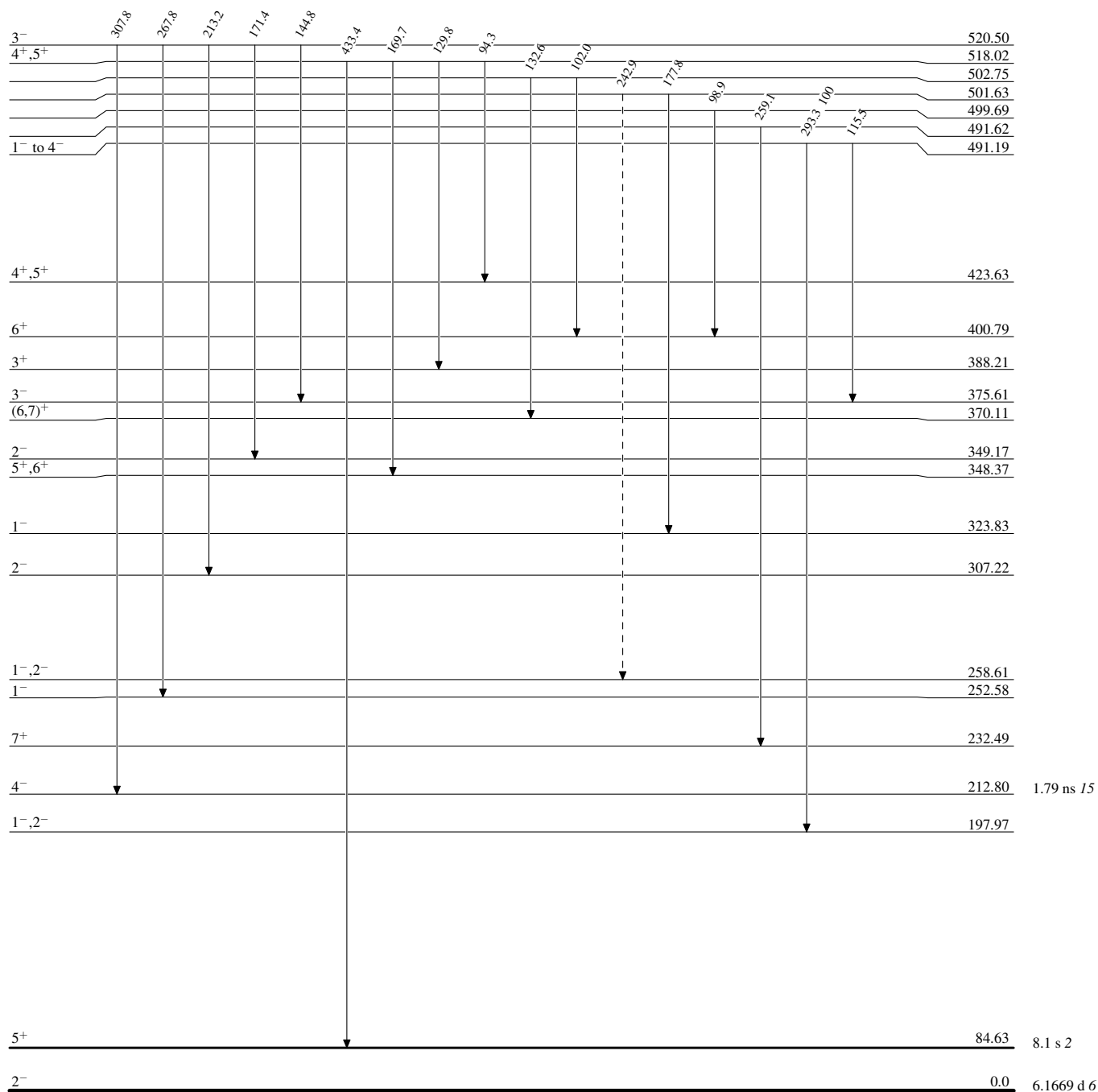
$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)

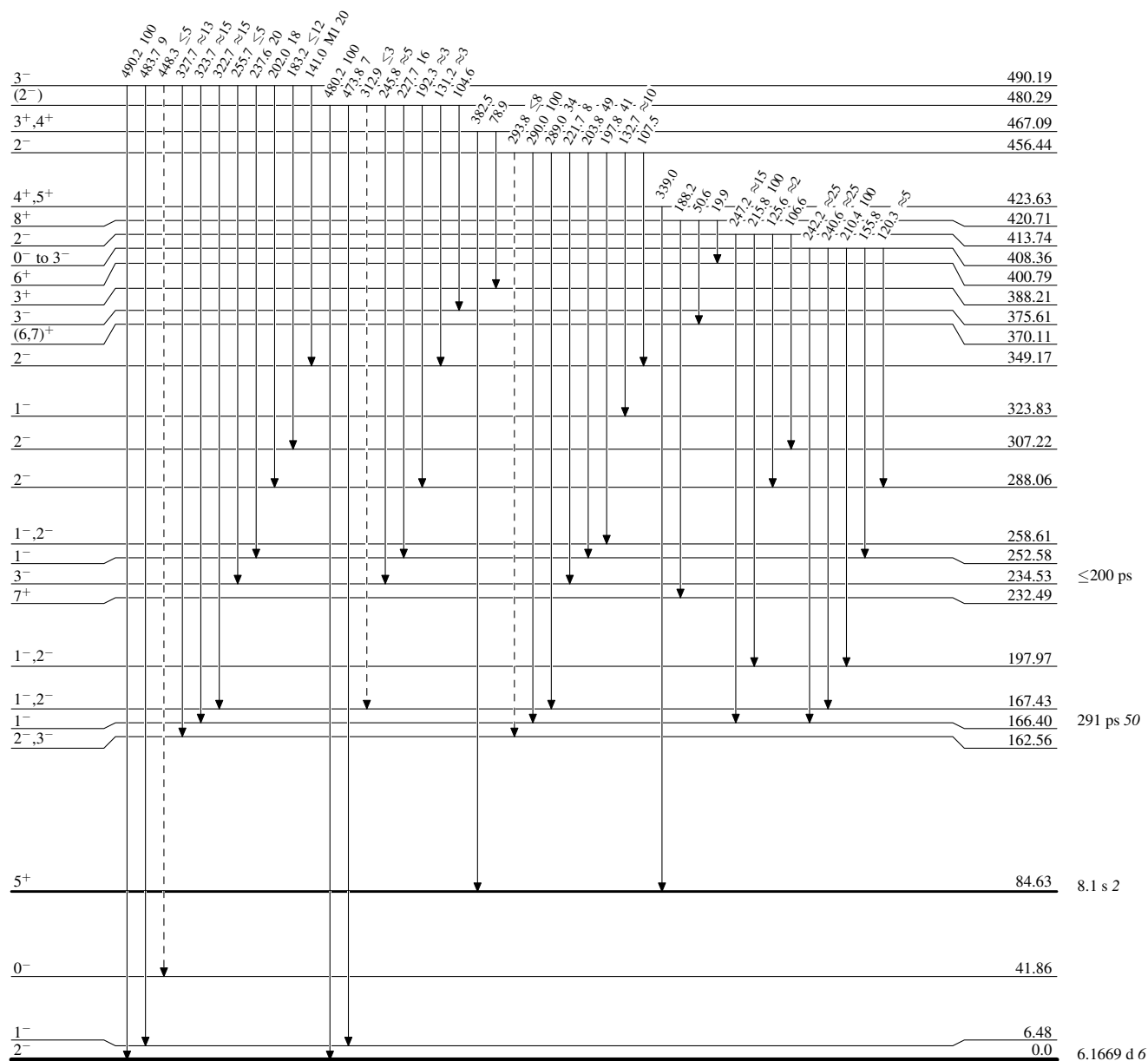


$^{196}\text{Pt}(d,2n\gamma),(p,n\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

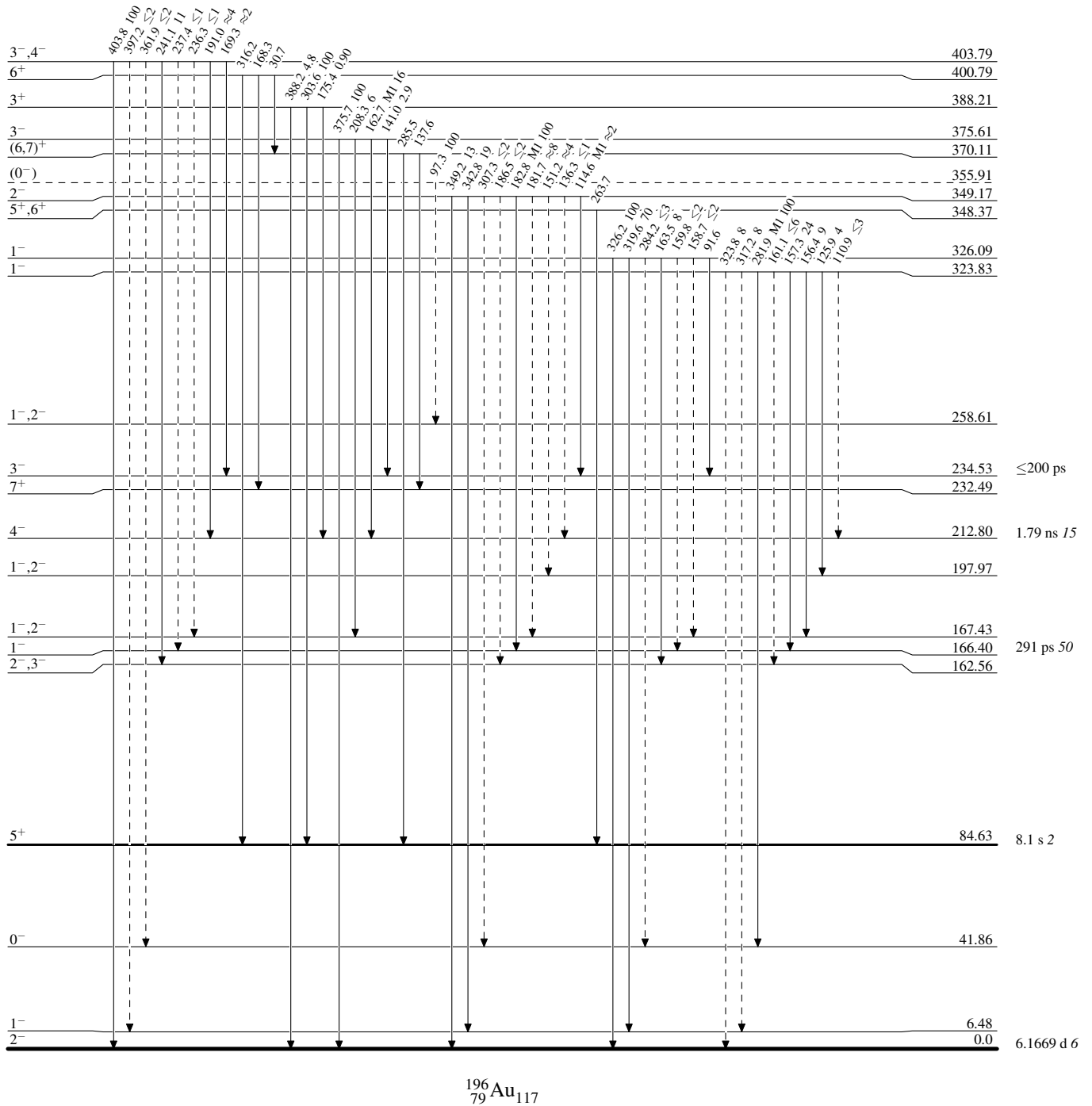
-----► γ Decay (Uncertain) $^{196}_{79}\text{Au}_{117}$

$^{196}\text{Pt}(d,2n\gamma),(p,n\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain) $^{196}_{79}\text{Au}_{117}$

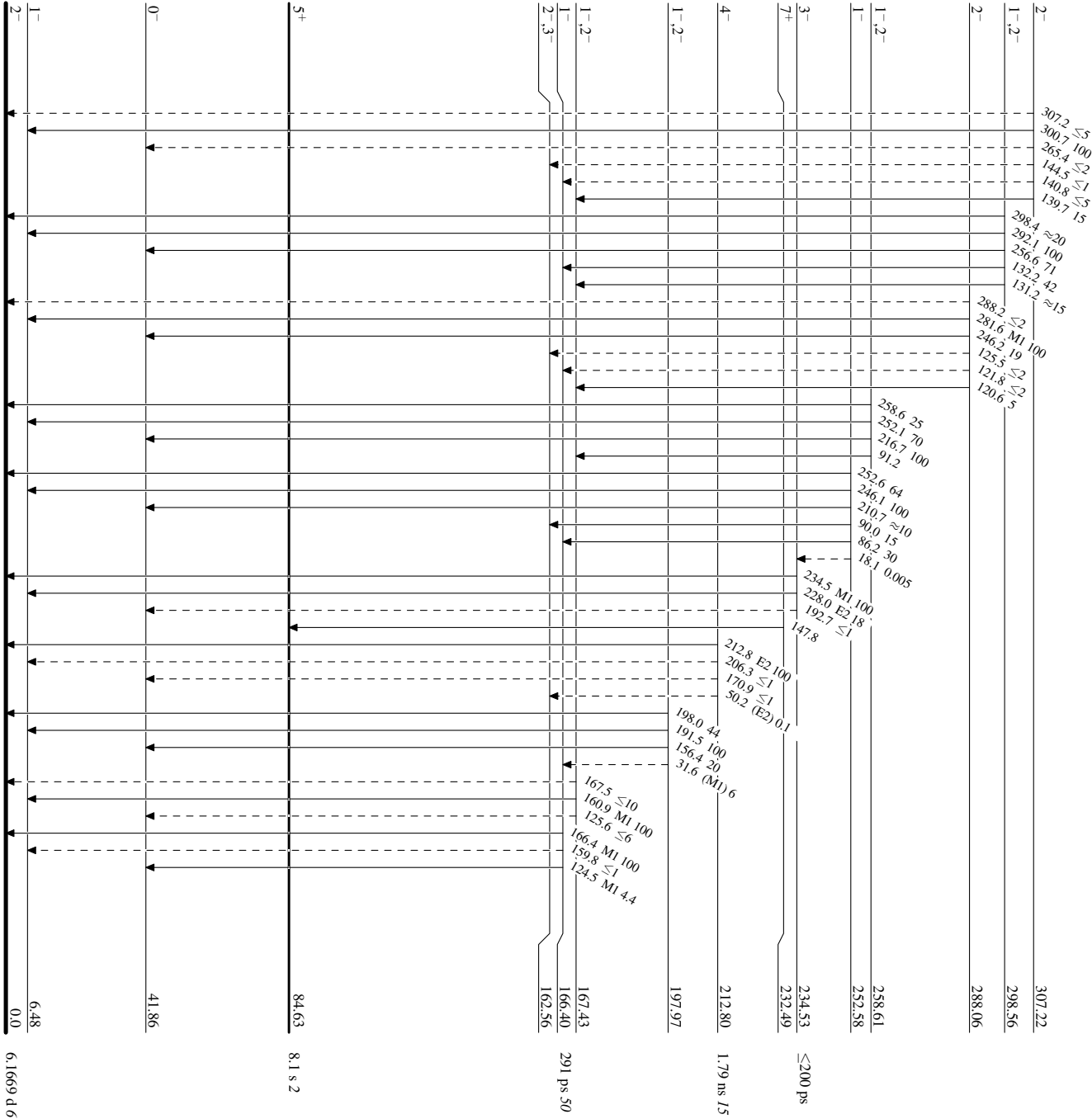
¹⁹⁶Pt(d,2n γ)(p,n γ) **2000Gr32**

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----> γ Decay (Uncertain)



¹⁹⁶Au₁₁₇

$^{196}\text{Pt}(\text{d},2\text{n}\gamma),(\text{p},\text{n}\gamma)$ 2000Gr32

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

