

<sup>198</sup>Pt( $\alpha,6n\gamma$ ) **1991Me06**

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

**1991Me06:** E=78 MeV. 86% enriched <sup>198</sup>Pt. In-beam, six Compton-suppressed Ge-detectors placed at angles of 30°, 90° and 150°. Event-by-event coincidence. Measured E $\gamma$ , I $\gamma$ , DCO ratios.

**2004Gu06:** E=150 MeV, rsam with afrodite array. Measured E $\gamma$ .

<sup>196</sup>Hg Levels

E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>
0.0 <sup>#</sup>	0 <sup>+</sup>	2262.89 <sup>#</sup> 20	(8 <sup>+</sup> )	3311.0 <sup>@</sup> 4	(13 <sup>-</sup> )	5350.4 5	(20)
426.00 <sup>#</sup> 10	2 <sup>+</sup>	2342.4 <sup>#</sup> 5	(10 <sup>+</sup> )	3507.5 <sup>#</sup> 5	(16 <sup>+</sup> )	5616.2 5	(21)
1061.49 <sup>#</sup> 15	4 <sup>+</sup>	2359.0 4	(8 <sup>-</sup> )	3697.2 <sup>@</sup> 4	(15 <sup>-</sup> )	5846.3 <sup>#</sup> 5	(22 <sup>+</sup> )
1757.09 <sup>@</sup> 18	5 <sup>-</sup>	2439.0 <sup>#</sup> 5	(12 <sup>+</sup> )	3791.6 5	(15 <sup>+</sup> )	5859.2 5	(22)
1785.29 <sup>#</sup> 18	(6 <sup>+</sup> )	2553.9 <sup>&amp;</sup> 5	(10 <sup>-</sup> )	3976.1 <sup>@</sup> 5	(17 <sup>-</sup> )	5958.2 <sup>@</sup> 5	(23 <sup>-</sup> )
1841.5 <sup>@</sup> 4	7 <sup>-</sup>	2620.7 <sup>@</sup> 4	(11 <sup>-</sup> )	4321.2 <sup>#</sup> 5	(18 <sup>+</sup> )	6499.3 <sup>#</sup> 6	(24 <sup>+</sup> )
2058.6 <sup>&amp;</sup> 3	(6 <sup>-</sup> )	2843.6 <sup>#</sup> 5	(14 <sup>+</sup> )	4388.1 <sup>@</sup> 5	(19 <sup>-</sup> )	7325.8 <sup>#</sup> 7	(26 <sup>+</sup> )
2064.5 <sup>@</sup> 4	9 <sup>-</sup>	2930.1 <sup>&amp;</sup> 5	(10 <sup>-</sup> )	5038.5 <sup>@</sup> 5	(21 <sup>-</sup> )		
2097.9 <sup>&amp;</sup> 4	(8 <sup>-</sup> )	3236.6 <sup>&amp;</sup> 5	(12 <sup>-</sup> )	5199.0 <sup>#</sup> 5	(20 <sup>+</sup> )		

<sup>†</sup> From least-squares fit to E $\gamma$ 's.

<sup>‡</sup> On the basis of directional correlation (DCO) ratios (I $\gamma$ (30°)/I $\gamma$ (90°)) determined from the coincidence spectra, and proposed band structure.

<sup>#</sup> Band(A): positive-parity g.s. collective rotation band.

<sup>@</sup> Band(B): odd-spin negative-parity band built on 5<sup>-</sup> level.

<sup>&</sup> Band(C): even-spin negative-parity band built on (6<sup>-</sup>) level.

$\gamma$ (<sup>196</sup>Hg)

E $\gamma$	I $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J $\pi$ <sub>i</sub> <sup>‡</sup>	E <sub>f</sub>	J $\pi$ <sub>f</sub> <sup>‡</sup>	Mult. <sup>‡</sup>	$\alpha^f$	I <sub>(<math>\gamma+ce</math>)</sub>	Comments
(56)		1841.5	7 <sup>-</sup>	1785.29	(6 <sup>+</sup> )	[E1]	0.412		$\alpha$ (L)=0.316 5; $\alpha$ (M)=0.0745 11; $\alpha$ (N+...)=0.0214 3 E $\gamma$ : an unobserved interband transition is required on the basis of the following observations: 724 $\gamma$ is seen in coincidence with 223 $\gamma$ , 386 $\gamma$ and 556 $\gamma$ ; I(696 $\gamma$ ) is found to be lower by about 15% than the 223 $\gamma$ , 556 $\gamma$ and 690 $\gamma$ in all coincidence spectra obtained by gating on the 386 $\gamma$ and higher-spin transition in the negative-parity band.
79.5		2342.4	(10 <sup>+</sup> )	2262.89	(8 <sup>+</sup> )	E2	14.55	≈400	ce(L)/( $\gamma+ce$ )=0.700 7; ce(M)/( $\gamma+ce$ )=0.183 4; ce(N+)/( $\gamma+ce$ )=0.0528 10 I <sub>(<math>\gamma+ce</math>)</sub> : from I $\gamma$ (278 $\gamma$ )=19 and authors' statement that branching of 278 $\gamma$ from 2342 level is ≈5%.
84.3		1841.5	7 <sup>-</sup>	1757.09	5 <sup>-</sup>	E2	11.55		Mult.: from band structure. $\alpha$ (K)=0.541 8; $\alpha$ (L)=8.23 12; $\alpha$ (M)=2.15 3; $\alpha$ (N+...)=0.622 9
96.7 3	57	2439.0	(12 <sup>+</sup> )	2342.4	(10 <sup>+</sup> )	(E2)	6.39 13		Mult.: from band structure. B(E2)(W.u.)=37.8 16

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<sup>198</sup>Pt( $\alpha,6n\gamma$ ) 1991Me06 (continued)

$\gamma(^{196}\text{Hg})$  (continued)

$E_\gamma$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. <sup>‡</sup>	$\alpha^f$	Comments
								$\alpha(K)=0.624$ 9; $\alpha(L)=4.31$ 9; $\alpha(M)=1.127$ 23; $\alpha(N+..)=0.326$ 7 Mult.: from DCO=1.02 15.
<sup>x</sup> 156.7 <sup>d</sup> 3	5							
<sup>x</sup> 178.5 <sup>d</sup> 4	7							
223.0 1	312	2064.5	9 <sup>-</sup>	1841.5	7 <sup>-</sup>	(E2)	0.271	B(E2)(W.u.)=33.6 18 $\alpha(K)=0.1301$ 19; $\alpha(L)=0.1055$ 15; $\alpha(M)=0.0271$ 4; $\alpha(N+..)=0.00791$ 12 Mult.: from DCO=1.00 5. Mult.: DCO=0.40 10.
242.2 4	6	5859.2	(22)	5616.2	(21)	D		
<sup>x</sup> 256.4 <sup>gd</sup> 1	13 <sup>g</sup>					(M1+E2)	0.36 20	$\alpha(K)=0.27$ 19; $\alpha(L)=0.068$ 9; $\alpha(M)=0.0165$ 13; $\alpha(N+..)=0.0049$ 5 Mult.: DCO=0.47 9.
256.4 <sup>g</sup> 1	12 <sup>g</sup>	2097.9	(8 <sup>-</sup> )	1841.5	7 <sup>-</sup>	(M1+E2)	0.36 20	$\alpha(K)=0.27$ 19; $\alpha(L)=0.068$ 9; $\alpha(M)=0.0165$ 13; $\alpha(N+..)=0.0049$ 5 Mult.: from DCO=0.55 7.
261.1 2		2359.0	(8 <sup>-</sup> )	2097.9	(8 <sup>-</sup> )	(M1+E2)	0.35 19	$\alpha(K)=0.26$ 18; $\alpha(L)=0.064$ 9; $\alpha(M)=0.0156$ 14; $\alpha(N+..)=0.0046$ 5 $I_\gamma$ : $I_\gamma(261+265)=9$ . Mult.: DCO=0.76 15.
265.7 1	9	5616.2	(21)	5350.4	(20)	D		$I_\gamma$ : $I_\gamma(261+265)=9$ , $I_\gamma(265+273)=13$ . Mult.: DCO=0.46 6. $I_\gamma$ : $I_\gamma(265+273)=13$ .
273.3 3		2058.6	(6 <sup>-</sup> )	1785.29	(6 <sup>+</sup> )			
278.0 5	(19) <sup>e</sup>	2342.4	(10 <sup>+</sup> )	2064.5	9 <sup>-</sup>	(E1)	0.0332	B(E1)(W.u.)=1.91×10 <sup>-6</sup> 7 $\alpha(K)=0.0273$ 4; $\alpha(L)=0.00454$ 7; $\alpha(M)=0.001054$ 16; $\alpha(N+..)=0.000313$ 5
278.9 1	245	3976.1	(17 <sup>-</sup> )	3697.2	(15 <sup>-</sup> )	(E2)	0.1326	$\alpha(K)=0.0753$ 11; $\alpha(L)=0.0432$ 6; $\alpha(M)=0.01100$ 16; $\alpha(N+..)=0.00321$ 5 Mult.: from DCO=1.00 5.
300.5 3	13	2359.0	(8 <sup>-</sup> )	2058.6	(6 <sup>-</sup> )			
301.5 3	23	2058.6	(6 <sup>-</sup> )	1757.09	5 <sup>-</sup>			
<sup>x</sup> 342.4 <sup>c</sup> 4	10							
<sup>x</sup> 345.5 <sup>#</sup> 3	6							
386.2 1	265	3697.2	(15 <sup>-</sup> )	3311.0	(13 <sup>-</sup> )	(E2)	0.0521	$\alpha(K)=0.0347$ 5; $\alpha(L)=0.01312$ 19; $\alpha(M)=0.00328$ 5; $\alpha(N+..)=0.000965$ 14 Mult.: from DCO=0.97 5.
404.6 1	305	2843.6	(14 <sup>+</sup> )	2439.0	(12 <sup>+</sup> )	(E2)	0.0460	$\alpha(K)=0.0312$ 5; $\alpha(L)=0.01120$ 16; $\alpha(M)=0.00279$ 4; $\alpha(N+..)=0.000822$ 12 Mult.: from DCO=0.98 8.
<sup>x</sup> 408.3 <sup>c</sup> 4	14							
412.0 1	188	4388.1	(19 <sup>-</sup> )	3976.1	(17 <sup>-</sup> )	(E2)	0.0439	$\alpha(K)=0.0299$ 5; $\alpha(L)=0.01053$ 15; $\alpha(M)=0.00262$ 4; $\alpha(N+..)=0.000772$ 11 Mult.: from DCO=1.00 7.
426.0 1	1000	426.00	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2	0.0402	B(E2)(W.u.)=38 3 $\alpha(K)=0.0278$ 4; $\alpha(L)=0.00943$ 14; $\alpha(M)=0.00234$ 4; $\alpha(N+..)=0.000690$ 10 Mult.: DCO=1.00 used As a normalization value.
<sup>x</sup> 440.0 <sup>d</sup> 2	12					(M1+E2)	0.08 5	$\alpha(K)=0.07$ 4; $\alpha(L)=0.013$ 5; $\alpha(M)=0.0031$ 10; $\alpha(N+..)=0.0009$ 3 Mult.: DCO=0.72 10.
456.0 2	22	2553.9	(10 <sup>-</sup> )	2097.9	(8 <sup>-</sup> )	(E2)	0.0338	$\alpha(K)=0.0238$ 4; $\alpha(L)=0.00755$ 11; $\alpha(M)=0.00187$ 3; $\alpha(N+..)=0.000551$ 8 Mult.: from DCO=1.21 20.
468.5 2	21	3976.1	(17 <sup>-</sup> )	3507.5	(16 <sup>+</sup> )	(E1)	0.01021	$\alpha(K)=0.00847$ 12; $\alpha(L)=0.001341$ 19;

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$^{198}\text{Pt}(\alpha,6n\gamma)$  1991Me06 (continued) $\gamma(^{196}\text{Hg})$  (continued)

$E_\gamma$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\ddagger$	$E_f$	$J_f^\ddagger$	Mult. $^\ddagger$	$\alpha^f$	Comments
477.6 1	465	2262.89	(8 <sup>+</sup> )	1785.29	(6 <sup>+</sup> )	(E2)	0.0301	$\alpha(\text{M})=0.000310$ 5; $\alpha(\text{N}+..)=9.24\times 10^{-5}$ 13 Mult.: DCO=0.58 11.
489.3 3	11	2553.9	(10 <sup>-</sup> )	2064.5	9 <sup>-</sup>	(M1+E2)	0.06 4	$\alpha(\text{K})=0.0215$ 3; $\alpha(\text{L})=0.00652$ 10; $\alpha(\text{M})=0.001607$ 23; $\alpha(\text{N}+..)=0.000475$ 7 Mult.: from DCO=0.98 4.
<sup>x</sup> 509.0 <sup>d</sup> 4 517.5 3	29 18	2359.0	(8 <sup>-</sup> )	1841.5	7 <sup>-</sup>	(M1+E2)	0.05 3	$\alpha(\text{K})=0.05$ 4; $\alpha(\text{L})=0.010$ 4; $\alpha(\text{M})=0.0023$ 9; $\alpha(\text{N}+..)=0.0007$ 3 Mult.: from DCO=0.77 40.
<sup>x</sup> 548.4 <sup>@</sup> 2	14					(E2)	0.0216	$\alpha(\text{K})=0.04$ 3; $\alpha(\text{L})=0.008$ 4; $\alpha(\text{M})=0.0019$ 7; $\alpha(\text{N}+..)=0.00058$ 22 Mult.: DCO=0.78 22.
556.2 1	335	2620.7	(11 <sup>-</sup> )	2064.5	9 <sup>-</sup>	(E2)	0.0209	$\alpha(\text{K})=0.01598$ 23; $\alpha(\text{L})=0.00428$ 6; $\alpha(\text{M})=0.001046$ 15; $\alpha(\text{N}+..)=0.000310$ 5 Mult.: DCO=1.0 3.
<sup>x</sup> 558.6 <sup>@</sup> 1	21					(M1+E2)	0.045 24	$\alpha(\text{K})=0.01551$ 22; $\alpha(\text{L})=0.00411$ 6; $\alpha(\text{M})=0.001002$ 14; $\alpha(\text{N}+..)=0.000297$ 5 Mult.: from DCO=0.97 5.
<sup>x</sup> 571.1 <sup>cg</sup> 2	23 <sup>g</sup>					(M1+E2)	0.042 23	$\alpha(\text{K})=0.036$ 21; $\alpha(\text{L})=0.007$ 3; $\alpha(\text{M})=0.0016$ 6; $\alpha(\text{N}+..)=0.00047$ 18 Mult.: DCO=0.78 21.
571.1 <sup>g</sup> 2	12 <sup>g</sup>	2930.1	(10 <sup>-</sup> )	2359.0	(8 <sup>-</sup> )			$\alpha(\text{K})=0.034$ 20; $\alpha(\text{L})=0.0063$ 25; $\alpha(\text{M})=0.0015$ 6; $\alpha(\text{N}+..)=0.00044$ 17 Mult.: DCO=0.73 17.
<sup>x</sup> 575.2 <sup>&amp;</sup> 3	11							
<sup>x</sup> 618.0 <sup>#</sup> 3 635.5 1	14 968	1061.49	4 <sup>+</sup>	426.00	2 <sup>+</sup>	(E2)	0.01546	$\alpha(\text{K})=0.01176$ 17; $\alpha(\text{L})=0.00281$ 4; $\alpha(\text{M})=0.000680$ 10; $\alpha(\text{N}+..)=0.000202$ 3 Mult.: from DCO=1.02 5.
647.3 2	19	5846.3	(22 <sup>+</sup> )	5199.0	(20 <sup>+</sup> )	(E2)	0.01484	$\alpha(\text{K})=0.01133$ 16; $\alpha(\text{L})=0.00268$ 4; $\alpha(\text{M})=0.000646$ 9; $\alpha(\text{N}+..)=0.000192$ 3 Mult.: from DCO=0.97 10.
650.5 1	66	5038.5	(21 <sup>-</sup> )	4388.1	(19 <sup>-</sup> )	(E2)	0.01468	$\alpha(\text{K})=0.01122$ 16; $\alpha(\text{L})=0.00264$ 4; $\alpha(\text{M})=0.000637$ 9; $\alpha(\text{N}+..)=0.000190$ 3 Mult.: from DCO=1.26 18.
653.0 2	8	6499.3	(24 <sup>+</sup> )	5846.3	(22 <sup>+</sup> )	(E2)	0.01456	$\alpha(\text{K})=0.01113$ 16; $\alpha(\text{L})=0.00261$ 4; $\alpha(\text{M})=0.000631$ 9; $\alpha(\text{N}+..)=0.000188$ 3 Mult.: from DCO=1.15 13.
663.8 1	123	3507.5	(16 <sup>+</sup> )	2843.6	(14 <sup>+</sup> )	(E2)	0.01405	$\alpha(\text{K})=0.01077$ 15; $\alpha(\text{L})=0.00250$ 4; $\alpha(\text{M})=0.000603$ 9; $\alpha(\text{N}+..)=0.000179$ 3 Mult.: from DCO=1.12 5.
<sup>x</sup> 668.0 <sup>d</sup> 4 682.7 2	16 18	3236.6	(12 <sup>-</sup> )	2553.9	(10 <sup>-</sup> )	(E2)	0.01322	$\alpha(\text{K})=0.01017$ 15; $\alpha(\text{L})=0.00232$ 4; $\alpha(\text{M})=0.000558$ 8; $\alpha(\text{N}+..)=0.0001660$ 24 Mult.: from DCO=0.87 18.
690.3 1	296	3311.0	(13 <sup>-</sup> )	2620.7	(11 <sup>-</sup> )	(E2)	0.01290	$\alpha(\text{K})=0.00995$ 14; $\alpha(\text{L})=0.00225$ 4; $\alpha(\text{M})=0.000541$ 8; $\alpha(\text{N}+..)=0.0001612$ 23 Mult.: from DCO=0.99 5.
<sup>x</sup> 693.5 <sup>@</sup> 4 695.6 1	14 467	1757.09	5 <sup>-</sup>	1061.49	4 <sup>+</sup>	(E1)	0.00456	B(E1)(W.u.)=1.07 $\times$ 10 <sup>-6</sup> 4 $\alpha(\text{K})=0.00380$ 6; $\alpha(\text{L})=0.000582$ 9; $\alpha(\text{M})=0.0001339$ 19; $\alpha(\text{N}+..)=4.01\times 10^{-5}$ 6 Mult.: from DCO=0.53 3.

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$^{198}\text{Pt}(\alpha,6n\gamma)$  **1991Me06 (continued)** $\gamma(^{196}\text{Hg})$  (continued)

$E_\gamma$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. $^\ddagger$	$\alpha^f$	Comments
$^x702.3^{\text{@}}_4$	8							
$^x714.3^{\#}_3$	12							
723.8 <i>l</i>	451	1785.29	(6 <sup>+</sup> )	1061.49	4 <sup>+</sup>	(E2)	0.01166	$\alpha(\text{K})=0.00905$ 13; $\alpha(\text{L})=0.00199$ 3; $\alpha(\text{M})=0.000477$ 7; $\alpha(\text{N}+..)=0.0001420$ 20 Mult.: from DCO=0.96 6.
$^x760.6^{\#}_2$	17							
$^x770.8^c_3$	14					(E2)	0.01021	$\alpha(\text{K})=0.00799$ 12; $\alpha(\text{L})=0.001692$ 24; $\alpha(\text{M})=0.000404$ 6; $\alpha(\text{N}+..)=0.0001206$ 17 Mult.: DCO=1.4 4.
$^x795.6^{\text{@}}_2$	12							
813.7 <i>l</i>	61	4321.2	(18 <sup>+</sup> )	3507.5	(16 <sup>+</sup> )	(E2)	0.00913	$\alpha(\text{K})=0.00719$ 10; $\alpha(\text{L})=0.001478$ 21; $\alpha(\text{M})=0.000352$ 5; $\alpha(\text{N}+..)=0.0001051$ 15 Mult.: from DCO=0.97 4.
820.7 <i>l</i>	15	5859.2	(22)	5038.5	(21 <sup>-</sup> )	D		Mult.: DCO=0.56 7.
826.5 <i>l</i>	3	7325.8	(26 <sup>+</sup> )	6499.3	(24 <sup>+</sup> )	(E2)	0.00884	$\alpha(\text{K})=0.00698$ 10; $\alpha(\text{L})=0.001423$ 20; $\alpha(\text{M})=0.000339$ 5; $\alpha(\text{N}+..)=0.0001011$ 15 Mult.: from DCO=1.0 3.
$^x840.9^{\text{@}}_3$	18							
$^x842.8^a_4$	14							
$^x846.5^b_4$	12							
853.6 <i>l</i>	42	3697.2	(15 <sup>-</sup> )	2843.6	(14 <sup>+</sup> )	(E1)	0.00308	$\alpha(\text{K})=0.00258$ 4; $\alpha(\text{L})=0.000389$ 6; $\alpha(\text{M})=8.93\times 10^{-5}$ 13; $\alpha(\text{N}+..)=2.68\times 10^{-5}$ 4 Mult.: DCO=0.55 5.
877.8 <i>l</i>	35	5199.0	(20 <sup>+</sup> )	4321.2	(18 <sup>+</sup> )	(E2)	0.00782	$\alpha(\text{K})=0.00621$ 9; $\alpha(\text{L})=0.001230$ 18; $\alpha(\text{M})=0.000292$ 4; $\alpha(\text{N}+..)=8.72\times 10^{-5}$ 13 Mult.: from DCO=0.92 20.
919.7 <i>l</i>	20	5958.2	(23 <sup>-</sup> )	5038.5	(21 <sup>-</sup> )	(E2)	0.00712	$\alpha(\text{K})=0.00568$ 8; $\alpha(\text{L})=0.001101$ 16; $\alpha(\text{M})=0.000261$ 4; $\alpha(\text{N}+..)=7.80\times 10^{-5}$ 11 Mult.: from DCO=0.92 10.
948.0 <i>l</i>	20	3791.6	(15 <sup>+</sup> )	2843.6	(14 <sup>+</sup> )	(M1+E2)	0.012 6	$\alpha(\text{K})=0.010$ 5; $\alpha(\text{L})=0.0017$ 7; $\alpha(\text{M})=0.00039$ 15; $\alpha(\text{N}+..)=0.00012$ 5 Mult.: DCO=0.40 16.
962.3 <i>l</i>	25	5350.4	(20)	4388.1	(19 <sup>-</sup> )	D		Mult.: DCO=0.44.5.

$^\dagger$  Relative intensities normalized to the 426 $\gamma$  as 1000; uncertainties range from 5% to 20%.

$^\ddagger$  From DCO ratios ( $I_\gamma(30^\circ)/I_\gamma(90^\circ)$ ) which are normalized to the average ratios for known pure E2 transitions in  $^{196}\text{Hg}$ , and the assumption that Q is (E2), D is (E1), D+Q is (M1+E2).

$^\#$  Placed above 2263-keV level.

$^\text{@}$  Placed above 2844-keV level.

$^\&$  Placed above 3792-keV level.

$^a$  Placed above 3697-keV level.

$^b$  Placed above 2621-keV level.

$^c$  Placed above 3976-keV level.

$^d$  Placed above 4388-keV level.

$^e$  With  $\approx 5\%$  branching in the spectra in coincidence with the 664 $\gamma$  and other transition from higher-spin levels.

$^f$  Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

$^g$  Multiply placed with intensity suitably divided.

$^x$   $\gamma$  ray not placed in level scheme.

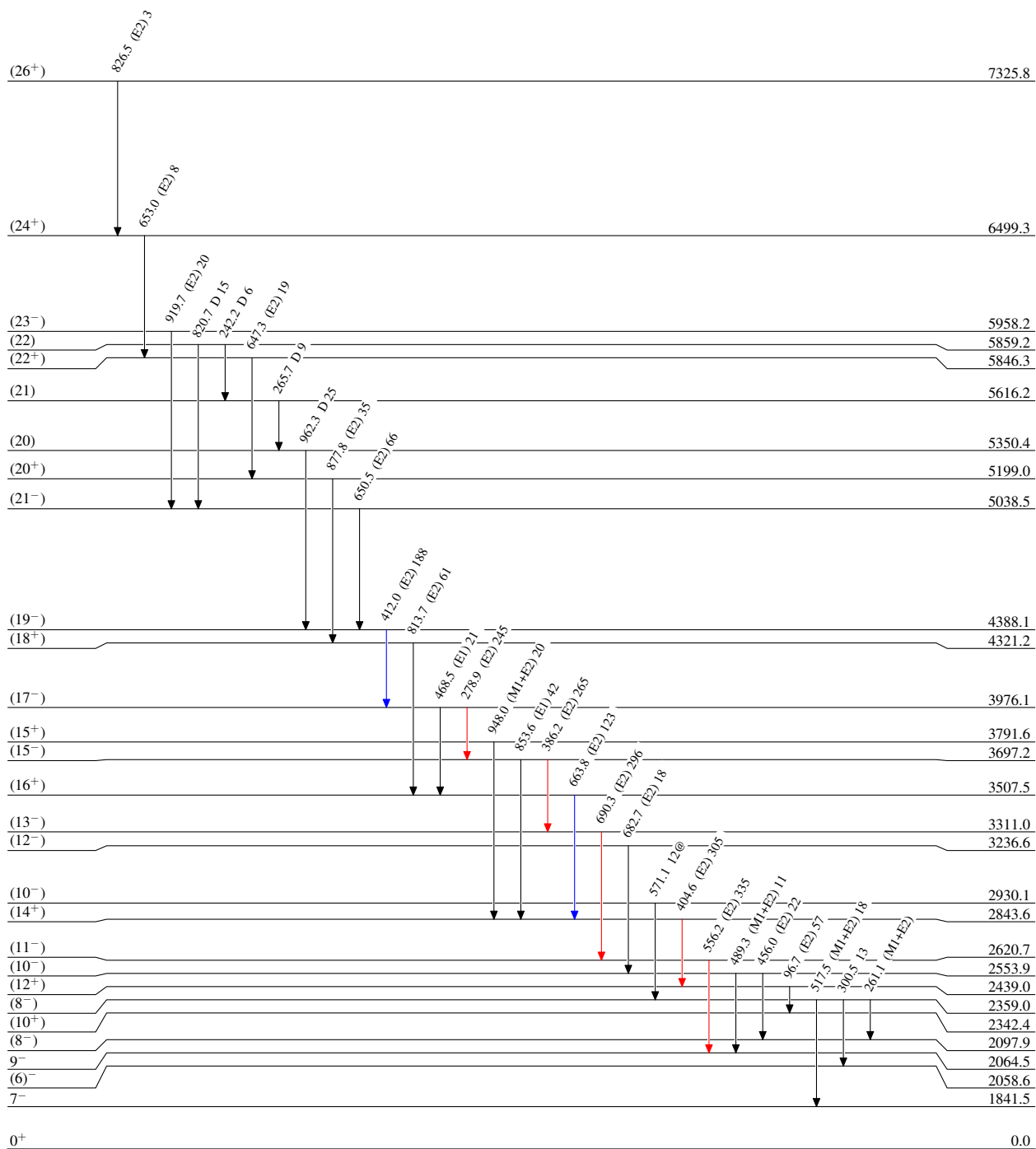
$^{198}\text{Pt}(\alpha,6n\gamma)$  1991Me06

## Level Scheme

Intensities: Relative  $I_\gamma$   
 @ Multiply placed: intensity suitably divided

## Legend

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

 $^{196}\text{Hg}_{116}$

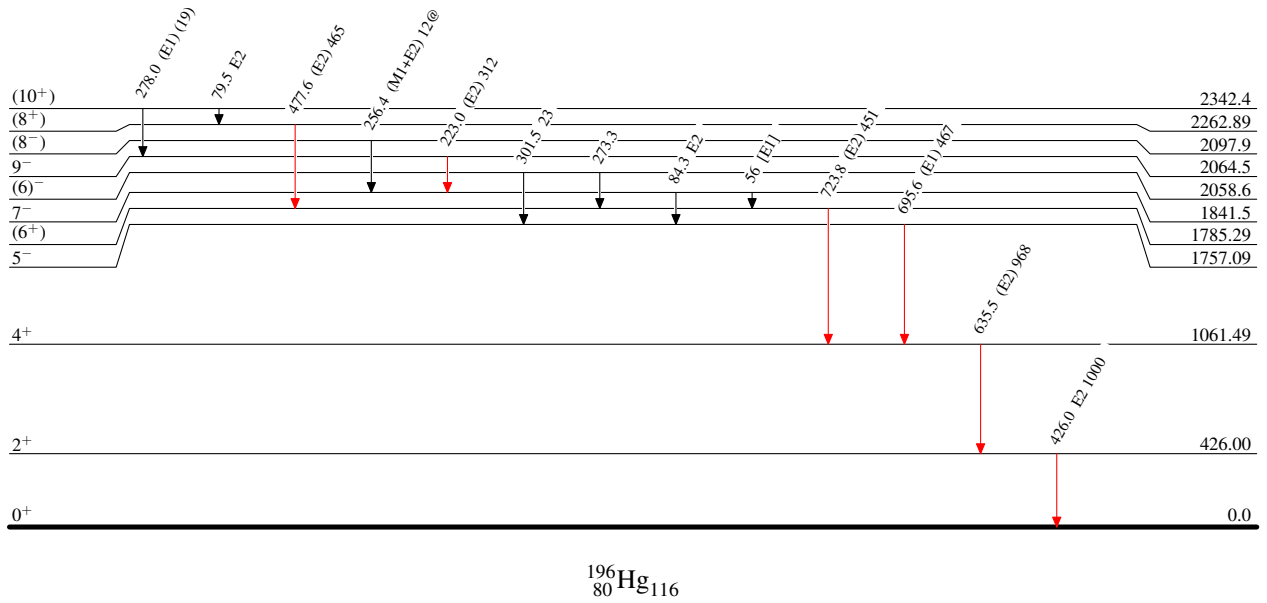
$^{198}\text{Pt}(\alpha,6n\gamma)$  1991Me06

## Level Scheme (continued)

Intensities: Relative  $I_\gamma$   
 @ Multiply placed: intensity suitably divided

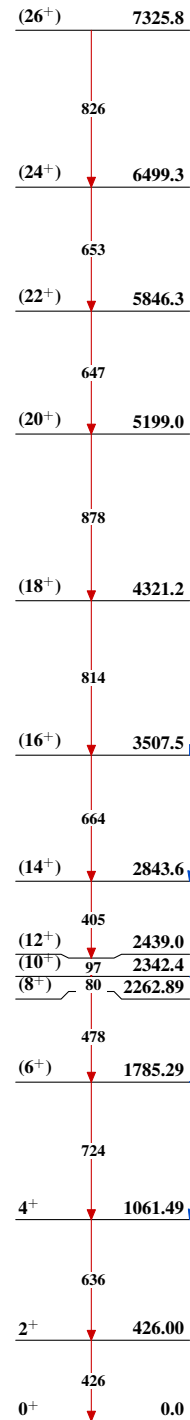
## Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- - -  $\gamma$  Decay (Uncertain)

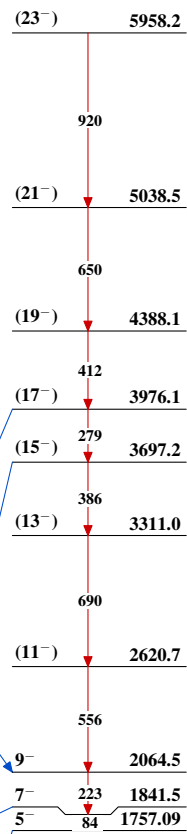


$^{198}\text{Pt}(\alpha,6n\gamma)$  1991Me06

Band(A): Positive-parity  
g.s. collective rotation  
band

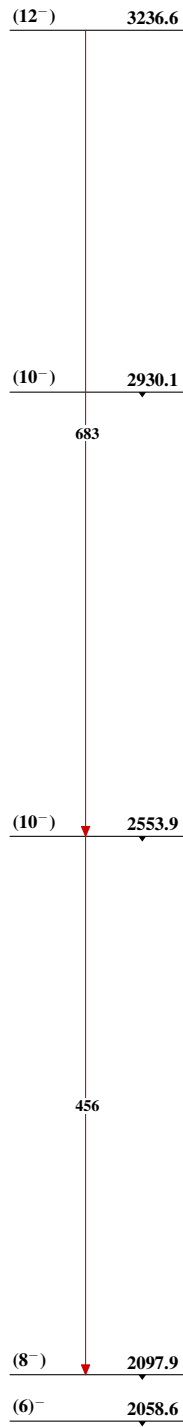


Band(B): Odd-spin  
negative-parity band  
built on  $5^-$  level

 $^{196}_{80}\text{Hg}_{116}$

$^{198}\text{Pt}(\alpha,6n\gamma)$  1991Me06 (continued)

Band(C): Even-spin  
negative-parity band  
built on  $(6^-)$  level

 $^{196}_{80}\text{Hg}_{116}$