^{196}Pt(α,4nγ), ^{197}Au(d,3nγ) 1983He14,1981Kr04,1974Pr13

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

Included ^{194}Pt(α,2nγ), ^{195}Pt(α,3nγ).

2006Le06: ^{194}Pt(α,2nγ),98% enriched ^{196}Pt, E=27 MeV,Measured Eγ, Iγ(θ,H,t), deduced isometric states g factors. IPAD technique. Transition intensities are relative to 426γ.

1983He14: 97% enriched ^{196}Pt. E(α)=48.6 MeV. Measured Eγ, Iγ, t, $\gamma\gamma$(t)-coincidence withGe(Li) detectors and low-energy photon spectrometer. γ-angular distributions were determined from Iγ's measured at five angles between 90° and 157°. Level scheme is based firmly on the $\gamma\gamma$-coincidence results.

1983Gu05: 98% enriched ^{196}Pt. E(α)=50 MeV. Measured ce-ce-$T_{1/2}$ coincidence. Electron spectrometer with superconducting solenoid and Si(Li).

1981Kr04, 1980Kr21: ^{196}Pt(α,4nγ) E(α)=48 MeV; ^{194}Pt(α,2nγ) E=30 MeV; ^{197}Au(d,3nγ) E(d)=22 MeV. Measured Eγ, Iγ, $\gamma\gamma$-coin, summed coin, Ice, Ce(t). γ(θ,H), γ(θ) θ=40° to 90°. Iron-free orange spectrometer.

1985Ko13: E(α)=50 MeV. 97.5% enriched ^{196}Pt. Measured ce-ce coin. Double orange spectrometer.

1984Go06: 87% enriched ^{194}Pt, ^{194}Pt(α,2nγ) E=27 MeV. Measured γ(θ,H), γ(θ,H,t). DPAD, IPAD methods.

1974Pr13: 30% enriched ^{196}Pt, E(α)=47 MeV. 30% ^{195}Pt(α,3n) E(α)=34 MeV.

^{196}Hg Levels

E(level)[@]	J^{π}[&]	$T_{1/2}$	Comments
0.0[†]	0^+	stable	
426.00[†] *10*	2^+		g=−0.005 *40* (1984Go06)
1061.50[†] *15*	4^+		g=−0.077 *33* (1984Go06)
1757.09[‡] *17*	5^-		g=−0.048 *50* (1984Go06)
1785.21[†] *17*	(6^+)		$\omega\tau$=0.17 *7* (1980Kr21).
1841.41[‡] *23*	7^-	5.2 ns *2*	g: g=−0.040 *19* (1984Go06), From −0.031 *28* for DPAD; −0.048 *23* for IPAD (1984Go06). Other: −0.030 *17* for IPAD (2006Le06). g: g factor indicate that the quasiparticle structure of these states is determined mainly by the rotationally aligned $i_{13/2}$ neutron and a neutron with low J. $T_{1/2}$: from γ(θ,H,t) (1984Go06). B(E2)(↓)=0.2041 *87* (1970To14).
2058.54[#] *21*	$(6)^-$		This level is confirmed by a definite 273γ deexcitation branch to the 6^+ level (1983He14).
2064.42[‡] *24*	9^-	0.355 ns *18*	$T_{1/2}$: from Ce(t) (1977Gu05).
2097.8[#] *3*	(8^-)		
2262.81[†] *20*	(8^+)		$\omega\tau$=0.11 *6* (1980Kr21).
2342.3[†] *3*	(10^+)	4.83 ns *19*	g=−0.26 *13* g: Recalculated for $T_{1/2}$=4.83 ns *19* from g=−0.18 *9* if τ=10.1 ns *14* (1980Kr21). g: Other: −0.19 *6* for IPAD (2006Le06). g: The authors' g factor measurement is probably a composite of values for the 10^+ 2342 and 12^+ 2439 levels (evaluators). average $\omega\tau$=0.14 *6* (1980Kr21). As $\nu(i_{13/2})-2$ aligned quasi-particle state (1981Kr04). $T_{1/2}$: weighted average of 4.75 ns *22* from ce time spectra (1985Ko13), and 5.1 ns *4* from ce time spectra (1981Kr04). Others: 7 ns *1* from Ag(t) (1974Pr13). $T_{1/2}$: average $\omega\tau$=0.14 *6* (1980Kr21). B(E2)=0.236 *13* (1985Ko13), 0.218 *20* (1983Gu05), 0.220 *17*, neglecting 10^+ to 9^- branch≤15% (1981Kr04).
2359.03 *25*	(8^-)		
2439.0[†] *3*	(12^+)	3.5 ns *3*	$T_{1/2}$: from ce time spectra (1981Kr04). $T_{1/2}$: B(E2)=0.254 *23* (1985Ko13), 0.254 *15* (1983Gu05), and 0.256 *22*, neglecting 10^+ to 9^- branch≤15% (1981Kr04).
2553.8[#] *3*	(10^-)		

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^{196}Pt(α,4nγ), ^{197}Au(d,3nγ) 1983He14,1981Kr04,1974Pr13 (continued)

^{196}Hg Levels (continued)

E(level)[@]	Jπ[&]	E(level)[@]	Jπ[&]	E(level)[@]	Jπ[&]	E(level)[@]	Jπ[&]
2620.6[‡] *3*	(11⁻)	3199.6? *4*	(⁺)	3507.5[†] *4*	(16⁺)	3976.1[‡] *4*	(17⁻)
2843.6[†] *3*	(14⁺)	3236.6[#] *4*	(12⁻)	3684.3? *4*	(⁺)	4321.1[†] *4*	(18⁺)
2929.6[#] *4*	(10⁻)	3310.9[‡] *3*	(13⁻)	3697.2[‡] *3*	(15⁻)	4388.0[‡] *4*	(19⁻)
2977?	(⁺)	3402.1? *4*	(⁺)	3792?	(15⁺)	5038.5[‡] *5*	(21⁻)

[†] Band(A): positive-parity g.s. band. Higher states consistent with Configuration=$(\nu\ 1i_{13/2})^{+2}$ (1980Kr21).
[‡] Band(B): odd-spin negative-parity band built on 5⁻ level.
[#] Band(C): even-spin negative-parity band built on (6)⁻ level.
[@] The level scheme is that proposed by 1983He14. Values from least-squares fit to Eγ′s.
[&] From Adopted Levels.

γ(^{196}Hg)

E_γ[†]	I_γ[†]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	α[#]	Comments
(39.2)		2097.8	(8⁻)	2058.54	(6)⁻			
79.5 *3*	27 *5*	2342.3	(10⁺)	2262.81	(8⁺)	E2	14.5 *4*	α(L)=10.88 *25*; α(M)=2.84 *7*; α(N+..)=0.822 *19* Mult.: from (L1+L2)/L3=1.2 *2* (1983Gu05), A_2>0 (1983He14). $I_{(\gamma+ce)}$: 65 *6*(2006Le06).
84.3 *2*	38 *4*	1841.41	7⁻	1757.09	5⁻	E2	0.556	α=0.556; α(L)=8.33; α(M)=2.17; α(N+..)=0.678 B(E2)(W.u.)=29.6 *13* Mult.: (L1+L2)/L3=1.3 *2* (1983Gu05). I_γ: Iγ=4 from 1981Kr04. $I_{(\gamma+ce)}$: 235 *25*(2006Le06). Mult.: from L-subshell intensity ratio (1981Kr04), and A_2=0.30 *4*; A_4=−0.00 *6* (1983He14).
96.7 *2*	59 *6*	2439.0	(12⁺)	2342.3	(10⁺)	E2	6.39 *11*	α(K)=0.624 *9*; α(L)=4.31 *8*; α(M)=1.127 *20*; α(N+..)=0.326 *6* E_γ: 1974Pr13 placed 97γ from 10⁺ to 8⁺. $I_{(\gamma+ce)}$: 2.7 *3*(2006Le06). Mult.: (L1+L2)/L3=1.3 *2* (1983Gu05). Mult.: from L-subshell intensity ratio (1981Kr04); A_2=0.27 *2*; A_4=−0.08 *3* (1983He14). A_2=0.6 *2* (1974Pr13).
223.0 *1*	250 *20*	2064.42	9⁻	1841.41	7⁻	E2	0.271	B(E2)(W.u.)=33.6 *18* α(K)=0.1301 *19*; α(L)=0.1055 *15*; α(M)=0.0271 *4*; α(N+..)=0.00791 *12* I_γ: others: Iγ=240 (1981Kr04); Iγ=150 *30* (1974Pr13). Mult.: deduced from K/L=1.2 *1* (1983Gu05) and A_2=0.30 *1*; A_4=−0.06 *2* (1983He14). A_2=0.46 *15* (1974Pr13).
256.4 *2*	12 *2*	2097.8	(8⁻)	1841.41	7⁻	M1+E2	0.36 *20*	α(K)=0.27 *19*; α(L)=0.068 *9*; α(M)=0.0165 *13*; α(N+..)=0.0049 *5* Mult.: from A_2=−0.29 *5*; A_4=0.19 *7* (1983He14). E_γ: placed by 1983He14 as defining the 8⁻ level. 1981Kr04 show a tentative 8⁻ to 7⁻ 301γ, and 1983Gu05 define the 8⁻ by a 217.2γ to 7⁻, with mult=M1+E2, δ=0.55 from K/L=4.9 *5*.

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^{196}Pt(α,4nγ), ^{197}Au(d,3nγ) 1983He14,1981Kr04,1974Pr13 (continued)

γ(^{196}Hg) (continued)

E_γ[†]	I_γ[†]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	α[#]	Comments
								1983He14 pointed out that the isotopic assignment of 217 K conversion line must be questioned.
261.0[@] 2	7 2	2359.03	(8⁻)	2097.8	(8⁻)			
273.3 2	5 1	2058.54	(6)⁻	1785.21	(6⁺)			
278.9 2		2342.3	(10⁺)	2064.42	9⁻	E1	0.0330	α(K)=0.0271 4; α(L)=0.00451 7; α(M)=0.001046 15; α(N+..)=0.000311 5 Mult.: deduced from ce(K)(278)/ce(K)(223) In the spectra In coin with 96γ and K/L=5 (1983Gu05). I_γ: branching intensity from 10⁺ to 9⁻ level:≤15% supposed by 1981Kr04, not confirmed In the spectrum gated by 223γ; Branching≤3% (1983He14);≈5% (1991Me06). $I_{(\gamma+ce)}$: 0.3 1(2006Le06).
278.9 2	130 15	3976.1	(17⁻)	3697.2	(15⁻)	(E2)	0.1326	α(K)=0.0753 11; α(L)=0.0432 7; α(M)=0.01100 16; α(N+..)=0.00321 5 I_γ: corrected for contributions from unresolved lines in ^{195}Hg and ^{197}Au (1983He14). It is possible that Iγ(278γ)=220 of 1983Gu05 were also affected by such impurities. Placement is based on the scheme of 1983He14. Mult.: stretched quadrupole from A_2=0.27 2; A_4=−0.01 3 (1983He14). But mult=E1 deduced from ce(K)(278)/ce(K)(223) in the spectra in coin with 96γ and K/L=5 (1983Gu05).
300.5 2	12 4	2359.03	(8⁻)	2058.54	(6)⁻			I_γ: derived from the coincidence data (1983He14).
301.5 2	35 7	2058.54	(6)⁻	1757.09	5⁻			I_γ: derived from the coincidence data (1983He14). 1983He14 find mutually coincidence 300.5γ and 301.5γ, but neither transition occurs In coincidence with the 84γ.
386.3 1	148 12	3697.2	(15⁻)	3310.9	(13⁻)	E2	0.0520	α(K)=0.0347 5; α(L)=0.01311 19; α(M)=0.00328 5; α(N+..)=0.000964 14 I_γ: Iγ=130 relative to 426γ As 1000, γ ray not placed In level scheme (1981Kr04). Mult.: from A_2=0.34 1; A_4=−0.06 2 (1983He14).
404.6 1	240 20	2843.6	(14⁺)	2439.0	(12⁺)	E2	0.0460	α(K)=0.0312 5; α(L)=0.01120 16; α(M)=0.00279 4; α(N+..)=0.000822 12 E_γ: 1974Pr13 placed 405γ from 12⁺ to 10⁺. Mult.: from A_2=0.33 1; A_4=−0.06 2 (1983He14). A_2=0.6 2 (1974Pr13).
411.9 2	53 10	4388.0	(19⁻)	3976.1	(17⁻)	E2	0.0439	α(K)=0.0299 5; α(L)=0.01054 15; α(M)=0.00262 4; α(N+..)=0.000773 11 I_γ: Iγ=90 relative to 426γ As 1000, γ ray not placed In level scheme (1981Kr04). I_γ: derived from the coincidence data (1983He14). Mult.: A_2=0.31 2; A_4=−0.05 3 both contains 40% contribution from the 411.8γ 2⁺ to 0⁺ transition in ^{198}Hg (1983He14).
426.0 1	1000	426.00	2⁺	0.0	0⁺	E2	0.0402	α(K)=0.0278 4; α(L)=0.00943 14; α(M)=0.00234 4; α(N+..)=0.000690 10 Mult.: from A_2=0.21 1; A_4=−0.04 2 (1983He14). Others: A_2=0.26 2 (1984Go06), A_2=0.48 10 (1974Pr13). $I_{(\gamma+ce)}$: 1000 (2006Le06).
^{x}441.7 2	17 2					D+Q		Mult.: from A_2=−0.61 7; A_4=−0.32 13 (1983He14).
456.0 2	21 2	2553.8	(10⁻)	2097.8	(8⁻)	E2	0.0338	α(K)=0.0238 4; α(L)=0.00755 11; α(M)=0.00187

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^{196}Pt(α,4nγ), ^{197}Au(d,3nγ) 1983He14,1981Kr04,1974Pr13 (continued)

γ(^{196}Hg) (continued)

E_γ†	I_γ†	E_i(level)	J^π_i	E_f	J^π_f	Mult.‡	α#	Comments
								3; α(N+..)=0.000551 *8* Mult.: from A_2=0.23 *5*; A_4=−0.15 *7* (1983He14).
468.5 *2*	12 *2*	3976.1	(17⁻)	3507.5	(16⁺)			This interband transition has not been detected in other even-A Hg nuclei (1983He14).
477.6 *1*	440 *40*	2262.81	(8⁺)	1785.21	(6⁺)	E2	0.0301	α(K)=0.0215 *3*; α(L)=0.00652 *10*; α(M)=0.001607 *23*; α(N+..)=0.000475 *7* Mult.: form A_2=0.23 *1*; A_4=−0.05 *2* (1983He14). Others: A_2=0.26 *4* (1980Kr21), A_2=0.56 *15* (1974Pr13). I_γ: 723γ/478g=44(5)/32(4) (1980Kr21); Iγ=400 (1981Kr04). Iγ=260 *30* (1974Pr13).
489.3 *2*	11 *2*	2553.8	(10⁻)	2064.42	9⁻			
517.6 *2*	15 *2*	2359.03	(8⁻)	1841.41	7⁻			Mult.: A_2=0.17 *6*; A_4=−0.05 *9* (1983He14).
556.2 *1*	220 *20*	2620.6	(11⁻)	2064.42	9⁻	E2	0.0209	α(K)=0.01551 *22*; α(L)=0.00411 *6*; α(M)=0.001002 *14*; α(N+..)=0.000297 *5* I_γ: other: Iγ=190 relative to 426γ (1981Kr04). Iγ=70 *20* (1974Pr13). Mult.: from A_2=0.31 *1*; A_4=−0.07 *2* (1983He14). A_2=0.6 *2* (1974Pr13).
558.5 *2*	67 *6*	3402.1?	(⁺)	2843.6	(14⁺)	E2	0.0207	α(K)=0.01538 *22*; α(L)=0.00406 *6*; α(M)=0.000990 *14*; α(N+..)=0.000293 *5* Mult.: from A_2=0.30 *4*; A_4=−0.16 *6* (1983He14). Sidefeeding transition populating positive-parity band.
570.6 *2*	19 *2*	2929.6	(10⁻)	2359.03	(8⁻)	E2	0.0197	α(K)=0.01470 *21*; α(L)=0.00381 *6*; α(M)=0.000929 *13*; α(N+..)=0.000275 *4* Mult.: from A_2=0.32 *5*; A_4=−0.01 *7* (1983He14).
ˣ575.8 *2*	11 *2*							
635.5 *1*	990 *80*	1061.50	4⁺	426.00	2⁺	E2	0.01546	α(K)=0.01176 *17*; α(L)=0.00281 *4*; α(M)=0.000680 *10*; α(N+..)=0.000202 *3* Mult.: from A_2=0.18 *2*; A_4=−0.07 *3* (1983He14). Others: A_2=0.30 *2* (1984Go06); A_2=0.45 *10* (1974Pr13). I_γ: others: Iγ=950 (1981Kr04); 810 *50* (1984Go06); 880 *40* (1974Pr13). $I_{(\gamma+ce)}$: 801 *9*(2006Le06).
ˣ647.7 *2*	10 *2*							
650.5 *2*	24 *2*	5038.5	(21⁻)	4388.0	(19⁻)	E2	0.01468	α(K)=0.01122 *16*; α(L)=0.00264 *4*; α(M)=0.000637 *9*; α(N+..)=0.000190 *3* Mult.: A_2=0.17 *6*; A_4=−0.01 *9* (1983He14).
ˣ659.0 *2*	15 *2*							
663.8 *2*	78 *7*	3507.5	(16⁺)	2843.6	(14⁺)	E2	0.01405	α(K)=0.01077 *15*; α(L)=0.00250 *4*; α(M)=0.000603 *9*; α(N+..)=0.000179 *3* I_γ: 70 relative to 426γ As 1000 (1981Kr04). Mult.: from A_2=0.31 *2*; A_4=−0.06 *3* (1983He14).
682.8 *2*	18 *2*	3236.6	(12⁻)	2553.8	(10⁻)	E2	0.01321	α(K)=0.01017 *15*; α(L)=0.00232 *4*; α(M)=0.000558 *8*; α(N+..)=0.0001660 *24* Mult.: from A_2=0.30 *5*; A_4=0.01 *7* (1983He14).
690.3 *1*	180 *15*	3310.9	(13⁻)	2620.6	(11⁻)	E2	0.01290	α(K)=0.00995 *14*; α(L)=0.00225 *4*; α(M)=0.000541 *8*; α(N+..)=0.0001612 *23* I_γ: Iγ=90 relative to 426γ As 1000, γ ray not placed In level scheme (1981Kr04). Mult.: from A_2=0.36 *2*; A_4=−0.05 *3* (1983He14).
695.6 *1*	490 *40*	1757.09	5⁻	1061.50	4⁺	D	0.00380	α=0.00380; α(L)=0.00058 I_γ: Iγ=390 *50* (1984Go06); 410 *40* (1974Pr13). $I_{(\gamma+ce)}$: 372 *6*(2006Le06).

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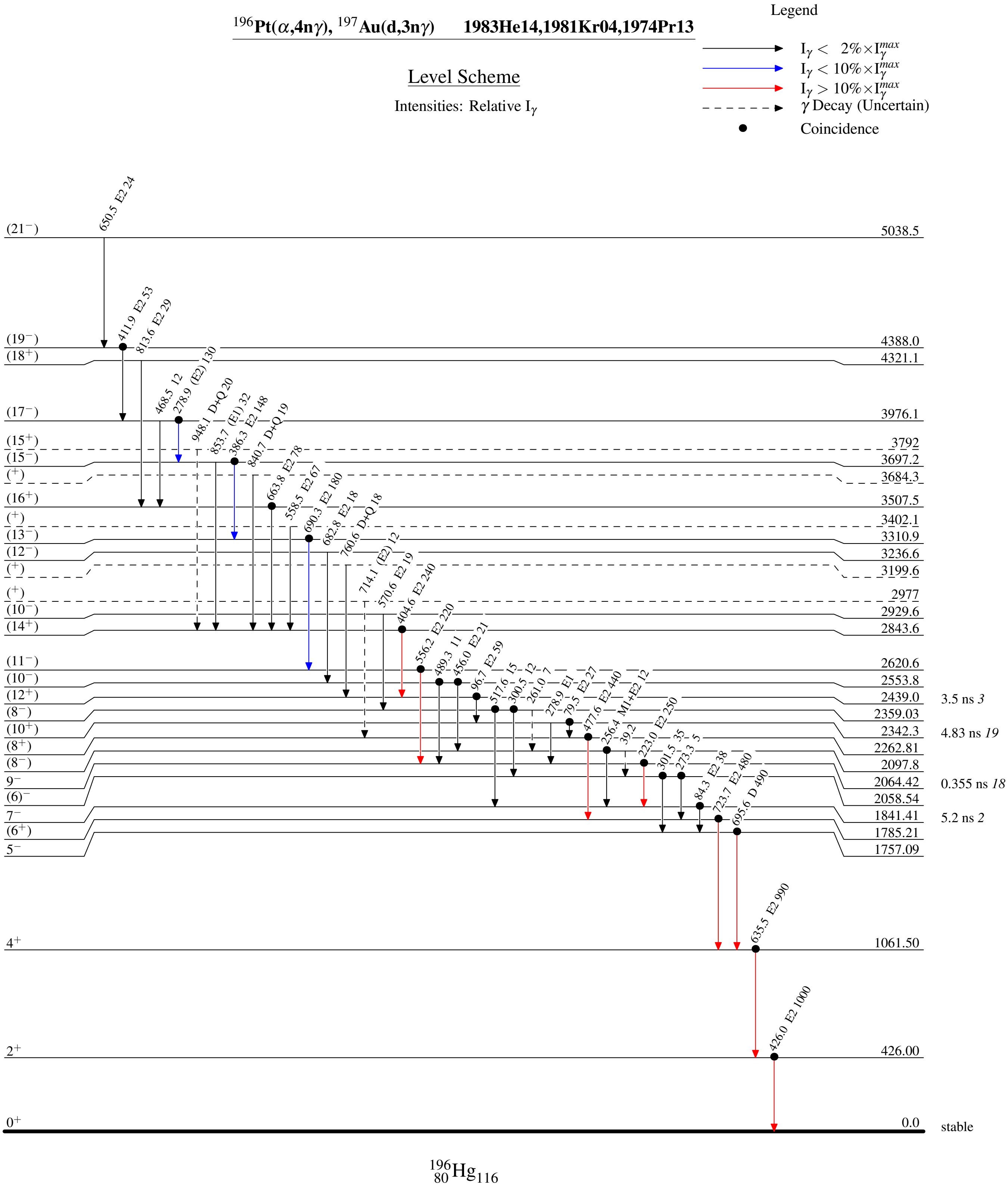
^{196}Pt(α,4nγ), ^{197}Au(d,3nγ) 1983He14,1981Kr04,1974Pr13 (continued)

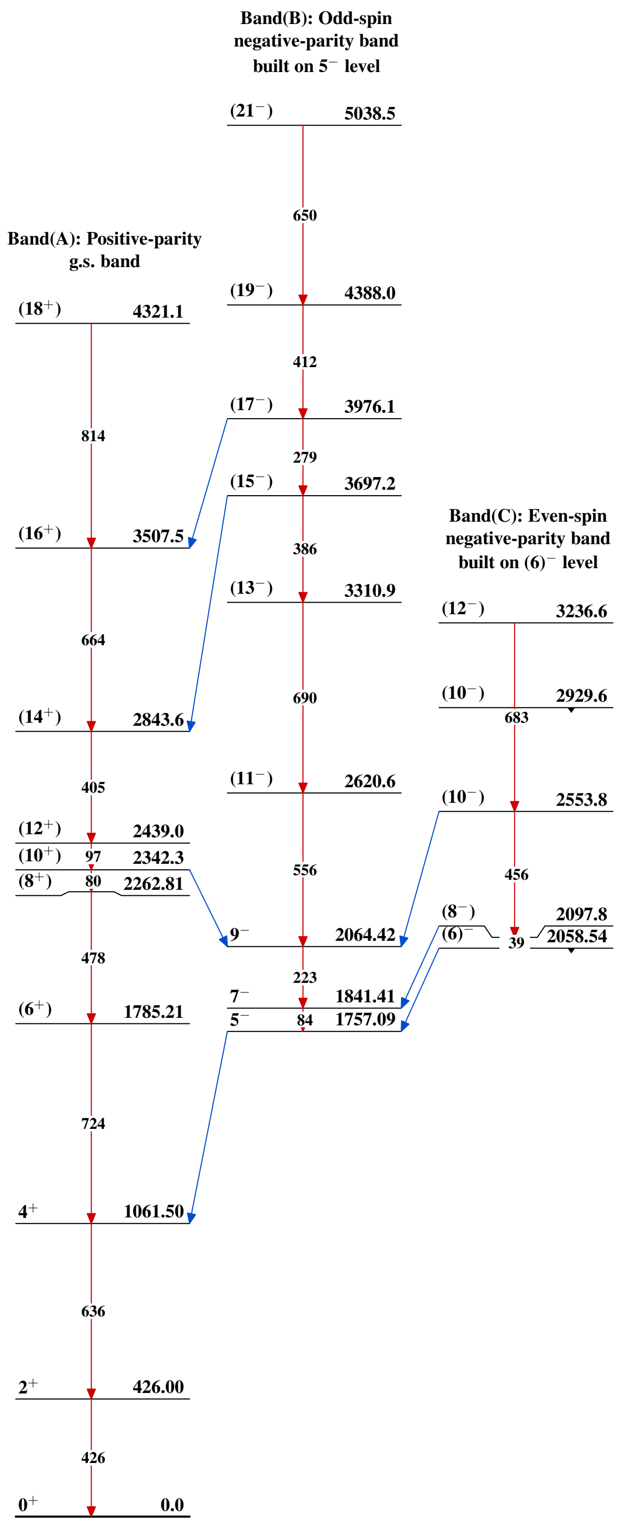
γ(^{196}Hg) (continued)

E_γ[†]	I_γ[†]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[‡]	α[#]	Comments
								Mult.: A_2=−0.20 *2*; A_4=0.02 *3* (1983He14). A_2=−0.08 *1* (1984Go06). A_2=−0.11 *15* (1974Pr13).
714.1[@] *2*	12 *2*	2977?	(+)	2262.81	(8+)	(E2)	0.01200	α(K)=0.00930 *13*; α(L)=0.00206 *3*; α(M)=0.000494 *7*; α(N+..)=0.0001472 *21* Mult.: from A_2=0.32 *6*; A_4=0.00 *9* (1983He14). Sidefeeding transition populating positive-parity band.
723.7 *1*	480 *40*	1785.21	(6+)	1061.50	4+	E2	0.01166	α(K)=0.00905 *13*; α(L)=0.00199 *3*; α(M)=0.000477 *7*; α(N+..)=0.0001421 *20* Mult.: A_2=0.23 *1*; A_4=−0.03 *2* (1983He14). A_2=0.43 *8* (1984Go06). Others: A_2=0.31 *4* (1980Kr21), A_2=0.50 *15* (1974Pr13). I_γ: others: Iγ=430 (1981Kr04); 250 *40* (1984Gu06); 320 *30* (1974Pr13). $I_{(\gamma+ce)}$: 170 *3*(2006Le06).
760.6 *2*	18 *2*	3199.6?	(+)	2439.0	(12+)	D+Q		Mult.: from A_2=−0.80 *11*; A_4=0.54 *13* (1983He14). Sidefeeding transition populating positive-parity band.
813.6 *2*	29 *3*	4321.1	(18+)	3507.5	(16+)	E2	0.00913	α(K)=0.00719 *10*; α(L)=0.001479 *21*; α(M)=0.000352 *5*; α(N+..)=0.0001052 *15* Mult.: from A_2=0.31 *3*; A_4=−0.06 *4* (1983He14).
840.7 *2*	19 *2*	3684.3?	(+)	2843.6	(14+)	D+Q		Mult.: from A_2=−0.98 *3*; A_4=0.23 *6* (1983He14). Sidefeeding transition populating positive-parity band.
853.7 *2*	32 *3*	3697.2	(15−)	2843.6	(14+)	(E1)	0.00308	α(K)=0.00258 *4*; α(L)=0.000389 *6*; α(M)=8.93×10^{-5} *13*; α(N+..)=2.68×10^{-5} *4* This interband transition has not been detected in other even-A Hg nuclei (1983He14). Mult.: from A_2=−0.34 *5*; A_4=0.05 *7* (1983He14).
[x]877.9 *2*	13 *2*							
948.1[@] *2*	20 *2*	3792?	(15+)	2843.6	(14+)	D+Q		Mult.: from A_2=−0.55 *5*; A_4=−0.06 *9* (1983He14). Sidefeeding transition populating positive-parity band.

[†] From 1983He14. Relative photon intensities are from the (α,4nγ) E=48.6 MeV reaction at θ=125°, relative to 426γ.
[‡] Inferred from angular distributions (1983He14) with the assumption that Q=E2.
[#] 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.
[@] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.


^{196}Pt(α,4nγ), ^{197}Au(d,3nγ) 1983He14,1981Kr04,1974Pr13
Level Scheme
Intensities: Relative I_γ
Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)
Coincidence
(21⁻) 5038.5
(19⁻) 4388.0
(18⁺) 4321.1
(17⁻) 3976.1
(15⁺) 3792
(15⁻) 3697.2
(⁺) 3684.3
(16⁺) 3507.5
(⁺) 3402.1
(13⁻) 3310.9
(12⁻) 3236.6
(⁺) 3199.6
(⁺) 2977
(10⁻) 2929.6
(14⁺) 2843.6
(11⁻) 2620.6
(10⁻) 2553.8
(12⁺) 2439.0 3.5 ns 3
(8⁻) 2359.03
(10⁺) 2342.3 4.83 ns 19
(8⁺) 2262.81
(8⁻) 2097.8
9⁻ 2064.42 0.355 ns 18
(6)⁻ 2058.54
7⁻ 1841.41 5.2 ns 2
(6⁺) 1785.21
5⁻ 1757.09
4⁺ 1061.50
2⁺ 426.00
0⁺ 0.0 stable
650.5 E2 24
411.9 E2 53
813.6 E2 29
468.5 12
278.9 (E2) 130
948.1 D+Q 20
853.7 (E1) 32
386.3 E2 148
840.7 D+Q 19
663.8 E2 78
558.5 E2 67
690.3 E2 180
682.8 E2 18
760.6 D+Q 18
714.1 (E2) 12
570.6 E2 19
404.6 E2 240
556.2 E2 220
489.3 11
456.0 E2 21
96.7 E2 59
517.6 15
300.5 12
261.0 7
278.9 E1
79.5 E2 27
477.6 E2 440
256.4 M1+E2 12
39.2
223.0 E2 250
301.5 35
273.3 5
84.3 E2 38
723.7 E2 480
695.6 D 490
635.5 E2 990
426.0 E2 1000
$^{196}_{80}Hg_{116}$

$^{196}Pt(\alpha,4n\gamma)$, $^{197}Au(d,3n\gamma)$ 1983He14,1981Kr04,1974Pr13



$^{196}_{80}Hg_{116}$