Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

Q(β^-)=−6385 *12*; S(n)=9960 *22*; S(p)=1310 *16*; Q(α)=5465.3 *29* 2012Wa38
Q(εp)=1574 *23* (2012Wa38).
Other Reactions:

Isotope shift and hfs data: 1988Kr18, 1990Hi08.
For discussion of effects of deformation on decay patterns to Pt, Hg, see 2015Bo01.

^{183}Au Levels

E(Y),J(Y) An almost degenerate pair of levels with J^π=11/2$^-$ and 13/2$^-$ is adopted (analogous to the 220 keV doublet in ^{185}Au) to accommodate both the M1 Eγ=218.2 *5* transition in ε decay and the Q Eγ=218.8 *2* transition from (^{35}Cl,4nγ). Level energy systematics for odd-A Au isotopes support the existence of such a doublet in ^{183}Au.
For calculation of bands, J^π, configurations, shape coexistence features (particle triaxial rotor model), see 2005Ch36.
For calculation of properties of low-lying levels, see 2001Ro23.

Cross Reference (XREF) Flags

- A ^{183}Hg ε decay
- B ^{187}Tl α decay
- C ^{152}Sm(^{35}Cl,4nγ)
- D ^{159}Tb(^{29}Si,5nγ),

E(level)†	J^π‡	$T_{1/2}$	XREF	Comments
0.0#	(5/2)$^-$	42.8 s *10*	A CD	%ε+%β^+=99.45 *25*; %α=0.55 *25* μ=+1.972 *23* (1988Kr18) μ: From resonance ionization mass spectroscopy. <r^2>$^{1/2}$(charge)=5.388 fm *6* (2004An14). %α: Unweighted average of 0.8 *3* (1995Bi01), 0.30 *5* (1970Ha18). Δ<r^2>(183,197)=−0.130 *9* fm^2 (1988Kr18; see also 1990Hi08). $T_{1/2}$: weighted average of 44.6 s *19* (1995Bi01), 42 s *4* (1970Ha18), 42.0 s *12* (1970Ma24), 45 s *4* (1968Si01). Other: 50 s *2* (1968De01). J^π: parity from log *ft*=5.4 to (7/2)$^-$ ^{183}Pt(1957) level; J=5/2 expected based on energy systematics of 5/2$^-$ levels in neighboring odd-A Au isotopes.
12.4# *4*	(9/2)$^-$		ABCD	J^π: low energy 9/2$^-$ level expected based on energy systematics for 9/2$^-$ levels in neighboring odd-A Au isotopes; $\Delta\pi$=no 284γ from π=− 297 level.
12.78 *16*	(3/2)$^-$		A C	J^π: $\Delta\pi$=no 160γ from π=− 173 level; low energy 3/2$^-$ level expected, by analogy with ^{185}Au.
69.1@ *5*	(7/2$^-$)		CD	J^π: band assignment.
73.3 *4*	(1/2)$^+$	>1 μs	A	J^π: E1 61γ to (3/2)$^-$ 12.8; 1/2$^+$ level energy systematics for neighboring odd-A Au isotopes; absence of γ to (5/2)$^-$ g.s.. Possibly an oblate nuclear state (1984Ma41). $T_{1/2}$: based on absence of 60.5γ in coincidence spectra in ε decay (1984Ma41).
91.26 *25*	(5/2$^-$,7/2$^-$)		A	J^π: gammas to (9/2)$^-$ and (3/2)$^-$.
172.67 *16*	(3/2,5/2)$^-$		A	J^π: D+Q 160γ to J=(3/2) 12.8; M1 173γ to (5/2)$^-$ g.s..
179.14 *24*	(1/2,3/2,5/2)$^-$		A	J^π: M1+E2 166γ to (3/2)$^-$ 12.8 level.
230.6 *6*	(11/2)$^-$	<1 μs	A	J^π: M1 218γ to (9/2)$^-$ 12.4; hindrance of M1 deexcitation consistent with observations for $h_{11/2}$ state in neighboring Au isotopes. $T_{1/2}$: 5 ns≤$T_{1/2}$≤1 μs proposed by 1984Ma41 on the basis of delayed coincidence intensity in ε decay.
231.2# *4*	(13/2$^-$)		CD	J^π: Q 219γ to (9/2)$^-$; band structure; 13/2$^-$ level energy systematics in

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Adopted Levels, Gammas (continued)

^{183}Au Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
			neighboring odd-A Au isotopes.
263.53 *22*	(5/2,7/2)$^-$	A	Jπ: M1+E2 91γ to (3/2,5/2)$^-$ 173; 251γ to (9/2)$^-$ 12.4.
273.5[@] *4*	(11/2$^-$)	CD	Jπ: stretched Q 204γ to (7/2$^-$) 69; D 261γ to J=(9/2)$^-$ 12.4.
289.43 *18*	(3/2,5/2,7/2)$^-$	A	Jπ: M1 290γ to (5/2)$^-$ g.s..
296.8 *4*	(7/2)$^-$	A	Jπ: (D) 284γ to J=(9/2)$^-$ 12.4; D, Δπ=no 297γ to (5/2)$^-$ g.s..
317.94 *17*	(1/2,3/2,5/2)$^-$	A	Jπ: M1 305γ to (3/2)$^-$ 12.8.
517.1 *8*	(7/2$^-$)	A	Jπ: γ to (11/2)$^-$ 231; analogy with ^{185}Au (1984Ma41).
562.52 *25*	(≤7/2)	A	Jπ: γ to (3/2)$^-$ 12.8.
565.3[#] *4*	(17/2$^-$)	CD	
599.6[@] *4*	(15/2$^-$)	CD	
701.8[&] *4*	(13/2$^+$)	CD	
779.86 *16*	(≤7/2)	A	Jπ: 767γ to (3/2)$^-$ 12.8.
811.14 *24*	(≤7/2)	A	Jπ: 798γ to (3/2)$^-$ 12.8.
817.67 *20*	(≤7/2)	A	Jπ: 805γ to (3/2)$^-$ 12.8.
865.4[&] *4*	(17/2$^+$)	CD	
885.57 *21*	(≤7/2)	A	Jπ: 873γ to (3/2)$^-$ 12.8.
989.1[#] *5*	(21/2$^-$)	CD	
1022.8[@] *5*	(19/2$^-$)	CD	
1025.1 *3*		A	
1054.5[b] *5*	(19/2$^-$)	C	
1100.2 *10*		A	
1148.5[&] *5*	(21/2$^+$)	CD	
1487.5[b] *5*	(23/2$^-$)	CD	
1492.0[#] *5*	(25/2$^-$)	CD	
1527.7[&] *5*	(25/2$^+$)	CD	
1544.5[@] *5*	(23/2$^-$)	CD	
1605.5 *3*	(≤7/2)	A	Jπ: 1593γ to (3/2$^-$) 12.8.
1671.2 *4*		A	
1680.9 *3*		A	
1681.96 *17*	(≤7/2)	A	Jπ: 1669γ to (3/2)$^-$ 12.8.
1736.9[a] *10*	(23/2$^+$)	D	
1800.55 *18*	(≤7/2)	A	Jπ: 1788γ to (3/2)$^-$ 12.8.
1981.1[&] *6*	(29/2$^+$)	CD	
1986.4[b] *5*	(27/2$^-$)	CD	
2063.5[#] *6*	(29/2$^-$)	CD	
2117.9[@] *12*	(27/2$^-$)	D	
2175.7[a] *10*	(27/2$^+$)	D	
2490.9[&] *6*	(33/2$^+$)	C	
2541.5[b] *6*	(31/2$^-$)	CD	
2681.6[a] *12*	(31/2$^+$)	D	
2691.1[#] *6*	(33/2$^-$)	CD	
2742.4[@] *16*	(31/2$^-$)	D	
3048.7[&] *6*	(37/2$^+$)	CD	
3149.4[b] *6*	(35/2$^-$)	CD	
3240.4[a] *12*	(35/2$^+$)	D	
3360.0[#] *6*	(37/2$^-$)	CD	
3388.8[@] *19*	(35/2$^-$)	D	
3656.7[&] *7*	(41/2$^+$)	CD	
3798.9[b] *6*	(39/2$^-$)	CD	

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Adopted Levels, Gammas (continued)

^{183}Au Levels (continued)

E(level)†	Jπ‡	XREF	E(level)†	Jπ‡	XREF	E(level)†	Jπ‡	XREF
3838.7[a] *12*	(39/2$^+$)	D	4989.2[&] *7*	(49/2$^+$)	CD	6381.5[&] *8*	(57/2$^+$)	C
4053.1[#] *7*	(41/2$^-$)	CD	5129.1?[b] *8*	(47/2$^-$)	C	7110.5[&] *9*	(61/2$^+$)	C
4309.6[&] *7*	(45/2$^+$)	CD	5500.6[#] *9*	(49/2$^-$)	CD	7879.5?[&] *11*	(65/2$^+$)	C
4461.1[b] *7*	(43/2$^-$)	CD	5681.3[&] *8*	(53/2$^+$)	CD			
4765.6[#] *7*	(45/2$^-$)	CD	6276.6?[#] *10*	(53/2$^-$)	C			

† From least-squares fit to adopted Eγ, assigning 1 keV uncertainty to Eγ data for which the authors did not state the uncertainty.

‡ From (^{35}Cl,4nγ), based on established band structure and measured DCO ratios and/or γ(θ), assuming $J^\pi=(5/2)^-$ and $(9/2)^-$, respectively, for the g.s. and the 12.4 level, except as noted.

[#] Band(A): (π $h_{9/2}$), α=+1/2 band.

[@] Band(B): (π $f_{7/2}$)?, α=−1/2 band (2005So01). Prolate orbital; energetically favored signature.

[&] Band(C): 1/2[660], α=+1/2 band. E_0=966, α=13.5, a=+10.5 (J=13/2 through 25/2). For discussion of the systematics of the 1/2[660] $i_{13/2}$ band In odd-A Au, see 2004So20.

[a] Band(D): π=+, α=−1/2 band. Probably the unfavored α=−1/2 branch of (π $i_{13/2}$) band. E_0=490, α=8.8, B_0=−1.0 (J=23/2 through 35/2).

[b] Band(E): possible (π $h_{9/2}$), α=−1/2 band. Prolate orbital; unfavored signature.

Adopted Levels, Gammas (continued)

$\gamma(^{183}Au)$

E,Iγ,M,δ From ε decay, except as noted.

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	$\alpha^\dagger$	Comments
12.4	$(9/2)^-$	(12.4 *4*)	100	0.0	$(5/2)^-$	[E2]			E_γ: from level energy difference.
12.78	$(3/2)^-$	(12.78 *16*)	100	0.0	$(5/2)^-$	[M1]			E_γ: from level energy difference.
73.3	$(1/2)^+$	60.5 *3*	100	12.78	$(3/2)^-$	E1		0.323 *7*	B(E1)(W.u.)<6.6×10^{-7} Mult.: anomalous E1 transition (1984Ma41); α(exp)=0.45 from ε decay.
91.26	$(5/2^-,7/2^-)$	78.3 *5*		12.78	$(3/2)^-$				
		79.0 *5*		12.4	$(9/2)^-$				
		91.1 *5*	100 *20*	0.0	$(5/2)^-$				
172.67	$(3/2,5/2)^-$	159.9 *3*	100 *20*	12.78	$(3/2)^-$	M1+E2	0.7	1.551 *24*	
		172.7 *3*	81 *16*	0.0	$(5/2)^-$	M1		1.533	
179.14	$(1/2,3/2,5/2)^-$	166.3 *3*	100 *20*	12.78	$(3/2)^-$	M1+E2	0.65	1.412 *22*	
		179.5 *5*	5.9 *12*	0.0	$(5/2)^-$				
230.6	$(11/2)^-$	218.2 *5*	100	12.4	$(9/2)^-$	M1		0.797 *13*	B(M1)(W.u.)>1.2×10^{-6}
231.2	$(13/2^-)$	218.8[a] *2*	100[a]	12.4	$(9/2)^-$	(E2)[‡]		0.277	Presumed to differ from the 218.2 *5* γ in ε decay. Other Eγ: 220.0 In (^{29}Si,5nγ).
263.53	$(5/2,7/2)^-$	90.7 *3*	100 *23*	172.67	$(3/2,5/2)^-$	M1+E2	0.5	9.24 *16*	
		250.9 *5*	≈46	12.4	$(9/2)^-$				
273.5	$(11/2^-)$	204.4[a] *2*	100.0[a] *25*	69.1	$(7/2^-)$	(E2)[‡]		0.348	other Eγ: 205.6 from (^{29}Si,5nγ).
		261.1[a] *2*	43.5[a] *14*	12.4	$(9/2)^-$	D+Q[#]			other Eγ (Iγ): 261.8 (74 *6*) from (^{29}Si,5nγ).
289.43	$(3/2,5/2,7/2)^-$	198.1 *3*	44 *9*	91.26	$(5/2^-,7/2^-)$	M1		1.044	
		276.7 *3*	53 *12*	12.78	$(3/2)^-$				
		289.5 *3*	100 *21*	0.0	$(5/2)^-$	M1		0.366	
296.8	$(7/2)^-$	284.4 *3*	100 *20*	12.4	$(9/2)^-$	(M1)		0.384	Mult.: anomalous M1 or M1+E0+E2 from α(K)exp in ε decay; level scheme.
		296.7 *5*	≈35	0.0	$(5/2)^-$	(M1)		0.342	Mult.: anomalous M1 or M1+E0+E2 from α(K)exp in ε decay; level scheme.
317.94	$(1/2,3/2,5/2)^-$	305.1 *3*	100 *20*	12.78	$(3/2)^-$	M1		0.317	
		318.1 *3*	18 *4*	0.0	$(5/2)^-$				
517.1	$(7/2^-)$	286.5 *5*	100	230.6	$(11/2)^-$				
562.52	$(\leq7/2)$	244.6 *5*	≈7.1	317.94	$(1/2,3/2,5/2)^-$				
		273.0 *5*	36 *7*	289.43	$(3/2,5/2,7/2)^-$				
		549.6 *3*	100 *21*	12.78	$(3/2)^-$				
565.3	$(17/2^-)$	334.1[a] *2*	100[a]	231.2	$(13/2^-)$	(E2)[‡]		0.0748	
599.6	$(15/2^-)$	326.1[a] *2*	100.0[a] *17*	273.5	$(11/2^-)$	(E2)[‡]		0.0802	
		368.0[a] *5*	18.6[a] *12*	231.2	$(13/2^-)$	D[‡]			other Iγ: 23.1 *28* from (^{29}Si,5nγ).
701.8	$(13/2^+)$	428.3[a] *2*	100[a] *4*	273.5	$(11/2^-)$	D+Q[‡]			
		470.2[&]	37[&] *4*	231.2	$(13/2^-)$	(D)			interpreted In (^{29}Si,5nγ) As D, ΔJ=0 transition.

From ENSDF

Adopted Levels, Gammas (continued)

γ(^{183}Au) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α[†]	Comments
779.86	(≤7/2)	462.2 *3*	96 *20*	317.94	$(1/2,3/2,2,5/2)^-$			
		490.4 *5*	20 *4*	289.43	$(3/2,5/2,7/2)^-$			
		516.3 *3*	≈100	263.53	$(5/2,7/2)^-$			
		607.7 *3*	≈52	172.67	$(3/2,5/2)^-$			
		767.1 *3*	96 *20*	12.78	$(3/2)^-$			
		779.5 *3*	84 *16*	0.0	$(5/2)^-$			
811.14	(≤7/2)	632.1 *5*	≈45	179.14	$(1/2,3/2,2,5/2)^-$			
		798.3 *3*	100 *19*	12.78	$(3/2)^-$			
817.67	(≤7/2)	254.7 *5*	≈50	562.52	(≤7/2)			
		499.9 *5*	43 *9*	317.94	$(1/2,3/2,2,5/2)^-$			
		644.9 *3*	100 *21*	172.67	$(3/2,5/2)^-$			
		805.0 *5*	≈71	12.78	$(3/2)^-$			
		817.9 *5*	≈14	0.0	$(5/2)^-$			
865.4	$(17/2^+)$	163.6 *2*	63 *7*	701.8	$(13/2^+)$	(E2)[‡]	0.761	E_γ: from (^{35}Cl,4nγ). Other: 164.9 from (^{29}Si,5nγ). I_γ: unweighted average of 56 *4* from (^{29}Si,5nγ) and 69 *6* from (^{35}Cl,4nγ).
		265.8 *2*	100 *4*	599.6	$(15/2^-)$	D[‡]		E_γ: from (^{35}Cl,4nγ). Other: 266.5 from (^{29}Si,5nγ). I_γ: from (^{29}Si,5nγ). Other Iγ: 100 *10* from (^{35}Cl,4nγ).
		300.0 *5*	6.0 *8*	565.3	$(17/2^-)$			E_γ: from (^{35}Cl,4nγ). I_γ: from (^{29}Si,5nγ). Other Iγ: 23 *6* from (^{35}Cl,4nγ).
885.57	(≤7/2)	712.7 *3*	100 *20*	172.67	$(3/2,5/2)^-$			
		872.8 *3*	65 *15*	12.78	$(3/2)^-$			
		885.9 *5*	40 *8*	0.0	$(5/2)^-$			
989.1	$(21/2^-)$	423.9[a] *2*	100[a]	565.3	$(17/2^-)$	(E2)[‡]	0.0391	
1022.8	$(19/2^-)$	423.2 *2*	100 *7*	599.6	$(15/2^-)$	(E2)[‡]	0.0393	E_γ: from (^{35}Cl,4nγ). I_γ: from (^{29}Si,5nγ).
		457.4[&]	18.1[&] *23*	565.3	$(17/2^-)$			
1025.1		707.0 *5*	75 *15*	317.94	$(1/2,3/2,2,5/2)^-$			
		852.5 *3*	100 *20*	172.67	$(3/2,5/2)^-$			
1054.5	$(19/2^-)$	455.0[a] *5*	100[a]	599.6	$(15/2^-)$			
1100.2		583.1 *5*	100	517.1	$(7/2^-)$			
1148.5	$(21/2^+)$	283.1[a] *2*	100[a]	865.4	$(17/2^+)$	(E2)	0.1218	other Eγ: 283.7 from (^{29}Si,5nγ). Mult.: from ^{159}Tb(^{29}Si,5nγ).
1487.5	$(23/2^-)$	433.0[a] *2*	52[a] *5*	1054.5	$(19/2^-)$	(Q)[‡]		
		464.0[a] *5*	95[a] *14*	1022.8	$(19/2^-)$	(Q)[‡]		other Iγ: 104 *6* from (^{29}Si,5nγ).
		498.5[a] *2*	100[a] *21*	989.1	$(21/2^-)$			other Eγ: 497.8 from (^{29}Si,5nγ).
1492.0	$(25/2^-)$	502.8[a] *2*	100[a]	989.1	$(21/2^-)$	(E2)	0.0255	Mult.: from (^{29}Si,5nγ).
1527.7	$(25/2^+)$	379.2[a] *2*	100[a]	1148.5	$(21/2^+)$	(E2)[‡]	0.0526	
1544.5	$(23/2^-)$	522.0[a] *5*	100[a] *27*	1022.8	$(19/2^-)$			other Eγ: 520.3 from (^{29}Si,5nγ).
		555.0[a] *5*	12.0[a] *20*	989.1	$(21/2^-)$			
1605.5	(≤7/2)	1426.4 *3*	100 *21*	179.14	$(1/2,3/2,2,5/2)^-$			

From ENSDF

$^{183}_{79}Au_{104}$-5

Adopted Levels, Gammas (continued)

γ(^{183}Au) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	$\alpha^\dagger$	Comments
1605.5	(≤7/2)	1592.7 *3*	23 *4*	12.78	$(3/2)^-$			
1671.2		1381.8 *3*	100	289.43	$(3/2,5/2,7/2)^-$			
1680.9		1362.9 *3*	54 *12*	317.94	$(1/2,3/2,5/2)^-$			
		1391.6 *3*	100 *19*	289.43	$(3/2,5/2,7/2)^-$			
1681.96	(≤7/2)	864.2 *3*	58 *11*	817.67	(≤7/2)			
		870.8 *3*	69 *14*	811.14	(≤7/2)			
		902.2 *3*	83 *17*	779.86	(≤7/2)			
		1509.2 *3*	100 *19*	172.67	$(3/2,5/2)^-$			
		1669.4 *3*	31 *6*	12.78	$(3/2)^-$			
		1681.8 *3*	42 *8*	0.0	$(5/2)^-$			
1736.9	$(23/2^+)$	588.4[&]	100[&]	1148.5	$(21/2^+)$	D+Q		Mult.: from ^{159}Tb(^{29}Si,5nγ).
1800.55	(≤7/2)	914.9 *3*	38 *8*	885.57	(≤7/2)			
		1021.0 *3*	18 *4*	779.86	(≤7/2)			
		1482.5 *3*	45 *10*	317.94	$(1/2,3/2,5/2)^-$			
		1536.8 *3*	19 *4*	263.53	$(5/2,7/2)^-$			
		1627.9 *3*	23 *4*	172.67	$(3/2,5/2)^-$			
		1787.8 *3*	100 *21*	12.78	$(3/2)^-$			
1981.1	$(29/2^+)$	453.4[a] *2*	100[a]	1527.7	$(25/2^+)$	(E2)[‡]	0.0329	
1986.4	$(27/2^-)$	441.0[ab] *5*	66[a] *19*	1544.5	$(23/2^-)$			should have been seen In (^{29}Si,5nγ) also, but was not; the evaluator, therefore, shows placement As uncertain.
		494.2[&]	15.9[&] *25*	1492.0	$(25/2^-)$			
		498.9[a] *2*	100[a] *4*	1487.5	$(23/2^-)$	(E2)	0.0260	other Eγ: 498.1 from (^{29}Si,5nγ). Mult.: from ^{159}Tb(^{29}Si,5nγ).
2063.5	$(29/2^-)$	571.5[a] *2*	100[a]	1492.0	$(25/2^-)$	(E2)	0.0188	other Eγ: 570.3 from (^{29}Si,5nγ). Mult.: from (^{29}Si,5nγ).
2117.9	$(27/2^-)$	573.4[&@]	100[&]	1544.5	$(23/2^-)$			
2175.7	$(27/2^+)$	438.8[&]	38[&] *12*	1736.9	$(23/2^+)$			
		648.0[&]	100[&] *23*	1527.7	$(25/2^+)$	D		Mult.: from ^{159}Tb(^{29}Si,5nγ).
2490.9	$(33/2^+)$	509.8[a] *2*	100[a]	1981.1	$(29/2^+)$	(E2)[‡]	0.0246	other Eγ: 508.9 from (^{29}Si,5nγ).
2541.5	$(31/2^-)$	555.1[a] *2*	100[a]	1986.4	$(27/2^-)$	(E2)[‡]	0.0201	other Eγ: 553.4 from (^{29}Si,5nγ).
2681.6	$(31/2^+)$	505.4[&b]		2175.7	$(27/2^+)$			
		700.5[&]	100[&] *22*	1981.1	$(29/2^+)$			
2691.1	$(33/2^-)$	627.6[a] *2*	100[a]	2063.5	$(29/2^-)$	(E2)[‡]	0.01520	
2742.4	$(31/2^-)$	624.5[&@]	100[&]	2117.9	$(27/2^-)$			
3048.7	$(37/2^+)$	557.8[a] *2*	100[a]	2490.9	$(33/2^+)$	(E2)	0.0199	Mult.: from ^{159}Tb(^{29}Si,5nγ). other Eγ: 556.5 from (^{29}Si,5nγ).
3149.4	$(35/2^-)$	607.9[a] *2*	100[a]	2541.5	$(31/2^-)$	(E2)[‡]	0.01633	other Eγ: 606.9 from (^{29}Si,5nγ).
3240.4	$(35/2^+)$	557.9[&b]		2681.6	$(31/2^+)$			
		749.5[&]	100[&] *17*	2490.9	$(33/2^+)$			

From ENSDF

$^{183}_{79}Au_{104}$-6

Adopted Levels, Gammas (continued)

γ(^{183}Au) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α†	Comments
3360.0	(37/2⁻)	668.9[a] 2	100[a]	2691.1	(33/2⁻)	(E2)‡	0.01320	other Eγ: 667.5 from (^{29}Si,5nγ).
3388.8	(35/2⁻)	646.4[&@]	100[&]	2742.4	(31/2⁻)			
3656.7	(41/2⁺)	608.0[a] 2	100[a]	3048.7	(37/2⁺)			other Eγ: 606.0 from (^{29}Si,5nγ).
3798.9	(39/2⁻)	649.5[a] 2	100[a]	3149.4	(35/2⁻)			other Eγ: 647.5 from (^{29}Si,5nγ).
3838.7	(39/2⁺)	597.0[&b]		3240.4	(35/2⁺)			
		790.0[&]	100[&] 18	3048.7	(37/2⁺)			
4053.1	(41/2⁻)	693.1[a] 2	100[a]	3360.0	(37/2⁻)			other Eγ: 691.4 from (^{29}Si,5nγ).
4309.6	(45/2⁺)	652.9[a] 2	100[a]	3656.7	(41/2⁺)			other Eγ: 651.3 from (^{29}Si,5nγ).
4461.1	(43/2⁻)	662.2[a] 2	100[a]	3798.9	(39/2⁻)			other Eγ: 660.5 from (^{29}Si,5nγ).
4765.6	(45/2⁻)	712.5[a] 2	100[a]	4053.1	(41/2⁻)			other Eγ: 714.7 from (^{29}Si,5nγ).
4989.2	(49/2⁺)	679.6[a] 2	100[a]	4309.6	(45/2⁺)	(E2)‡	0.01275	other Eγ: 678.3 from (^{29}Si,5nγ).
5129.1?	(47/2⁻)	668.0[ab] 5	100[a]	4461.1	(43/2⁻)			
5500.6	(49/2⁻)	735.0[a] 5	100[a]	4765.6	(45/2⁻)			
5681.3	(53/2⁺)	692.1[a] 2	100[a]	4989.2	(49/2⁺)	(E2)‡	0.01226	other Eγ: 691.0 from (^{29}Si,5nγ).
6276.6?	(53/2⁻)	776.0[ab] 5	100[a]	5500.6	(49/2⁻)			
6381.5	(57/2⁺)	700.2[a] 2	100[a]	5681.3	(53/2⁺)			
7110.5	(61/2⁺)	729.0[a] 5	100[a]	6381.5	(57/2⁺)			
7879.5?	(65/2⁺)	769.0[ab] 5	100[a]	7110.5	(61/2⁺)			

† Additional information 1.
‡ From ^{152}Sm(^{35}Cl,4nγ), assigning Δπ=(No) for intraband transitions.
# From DCO In ^{159}Tb(^{29}Si,5nγ), assigning Δπ=(No) for intraband transitions.
@ Placement adopted from (^{29}Si,5nγ) where it is firmly established from coin spectra double-gated on transitions lower In the same band.
& From ^{159}Tb(^{29}Si,5nγ). uncertainty In Eγ unstated by authors but, typically, Eγ from this source ranges from 2.2 keV higher to 4.7 keV lower than the data from (^{35}Cl,4nγ).
a From ^{152}Sm(^{35}Cl,4nγ).
b Placement of transition in the level scheme is uncertain.

From ENSDF

$^{183}_{79}Au_{104}$-7

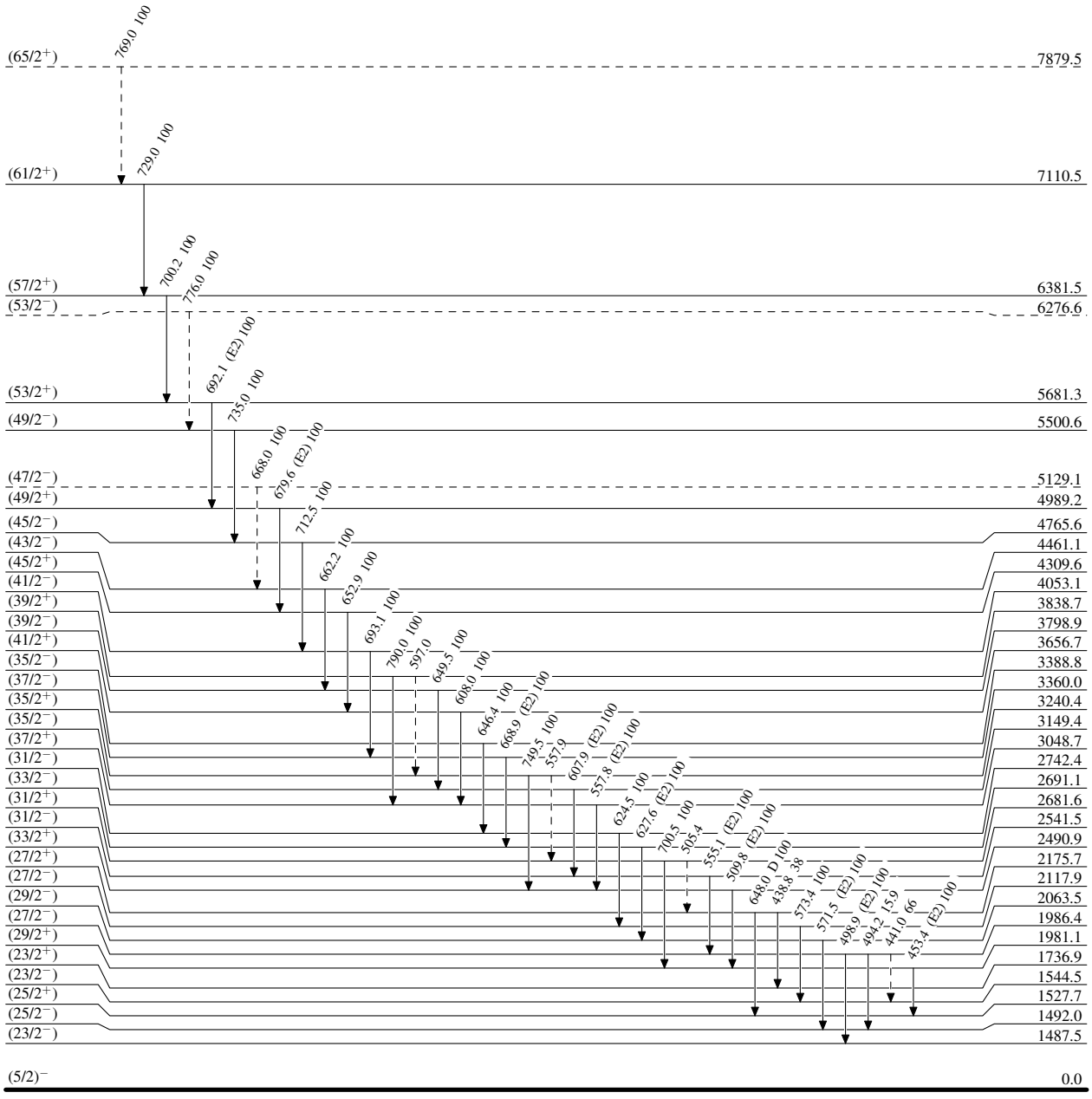
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

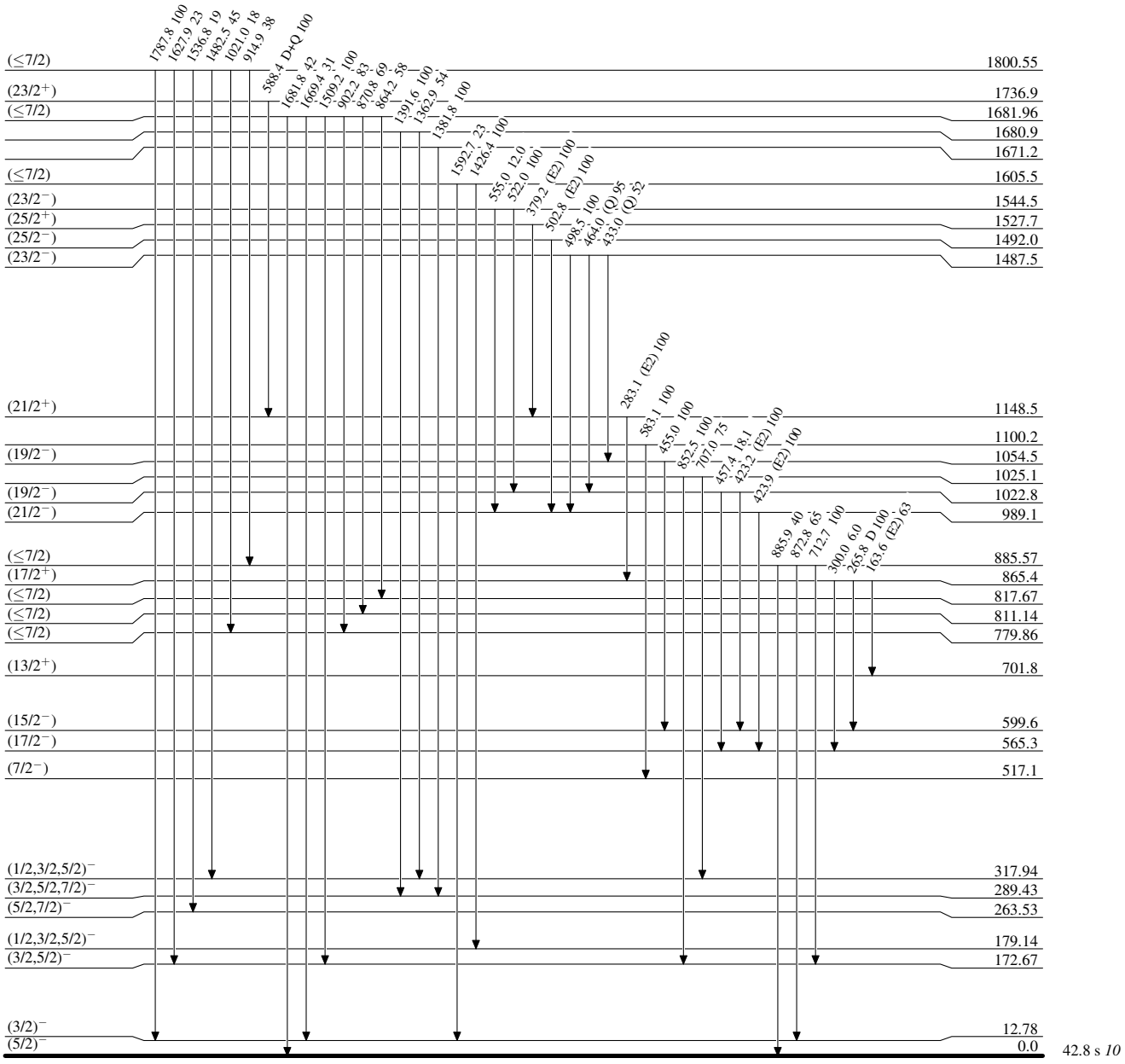


$^{183}_{79}Au_{104}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{183}_{79}Au_{104}$

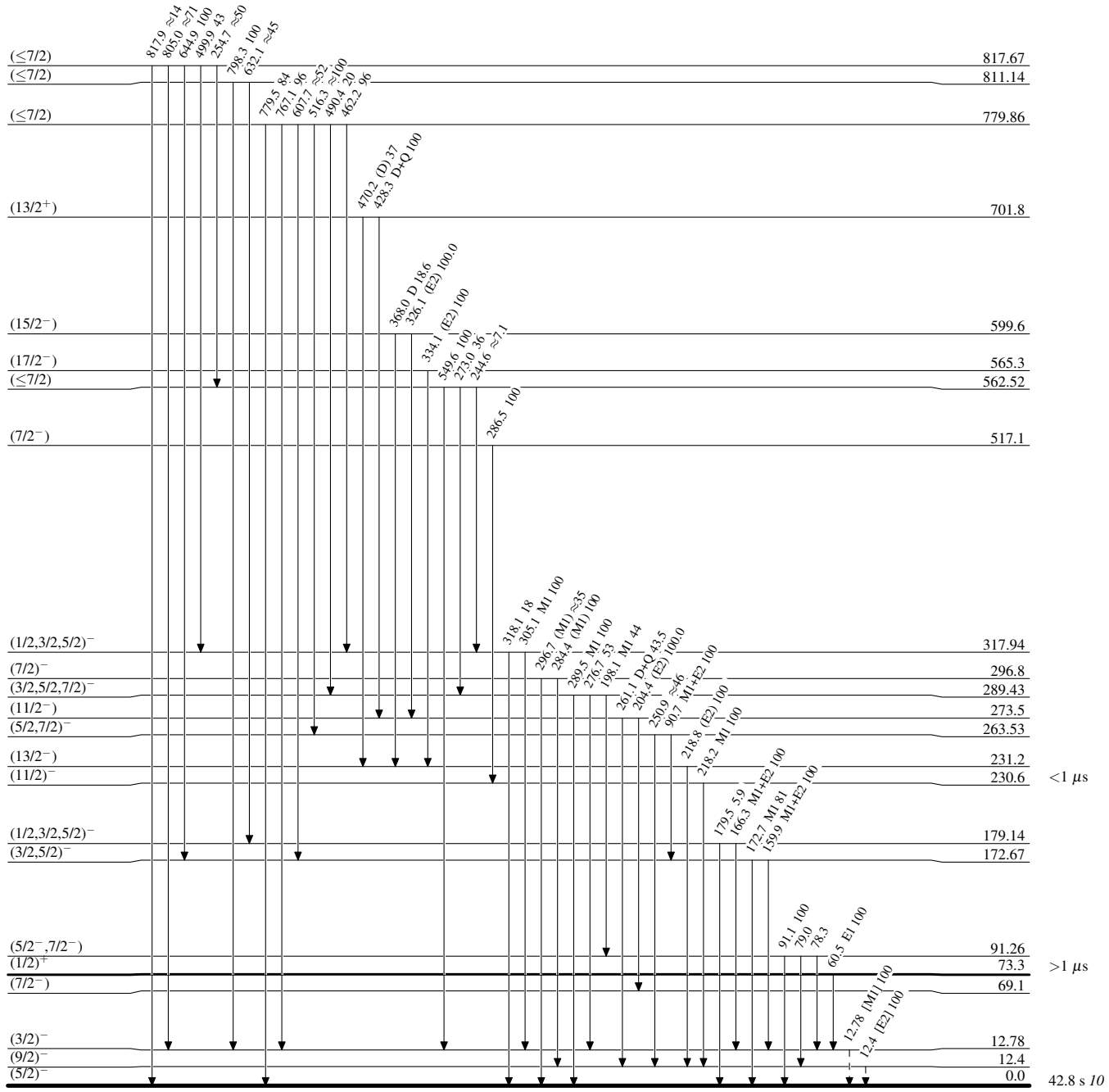
Adopted Levels, Gammas

Legend

Level Scheme (continued)

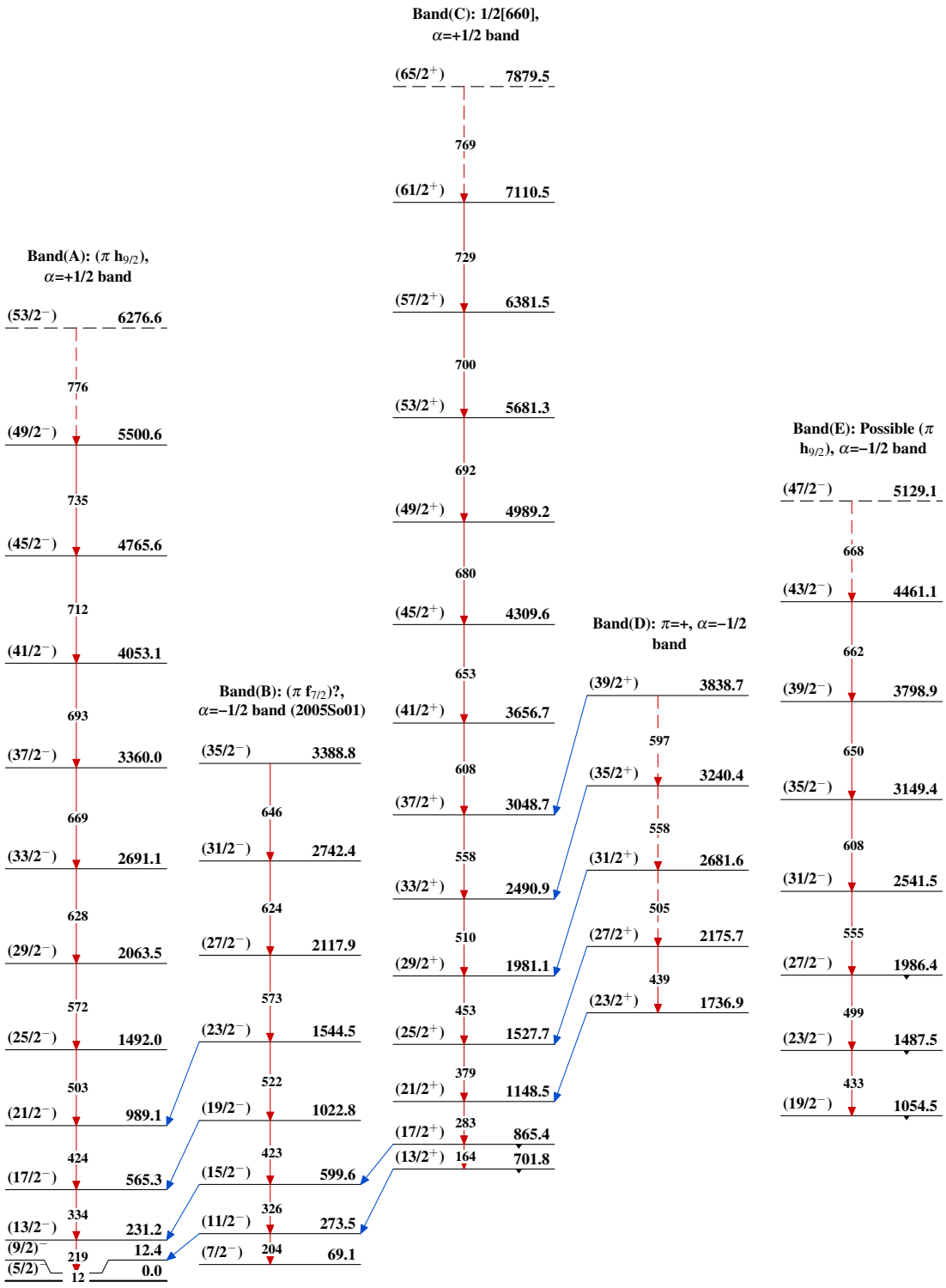
Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{183}_{79}Au_{104}$

Adopted Levels, Gammas



$^{183}_{79}Au_{104}$