

(HI,xn γ) **2005Po10,1982Po03,1981Ma28**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 121, 561 (2014)	31-Mar-2014

Others: [1986Po01](#), [1985Po13](#), [1980Po07](#), [1979Po19](#).

2005Po10: $^{198}\text{Pt}(^{17}\text{O},5\text{n}\gamma)$, Enriched ^{198}Pt target, E=96 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$, $\gamma(\theta)$ at three angles, $\gamma\gamma(t)$, lifetimes, ce with the caesar array of Compton-suppressed Ge detectors and a superconducting electron spectrometer operated in lens mode. Same research group of [1982Po03](#).

1982Po03: $^{205}\text{Tl}(^{10}\text{B},5\text{n}\gamma)$. Target: 96.4% enriched ^{205}Tl , E=68 to 75 MeV. Measured $\gamma\gamma(t)$ and $n\gamma(t)$ in the time range of 4 μs . Measured $\gamma(\theta)$ for $\theta=90^\circ$ to 150° . Detectors:Ge(Li) for γ rays, liquid scintillator for neutrons. Other: [1980Po07](#). $^{198}\text{Pt}(^{16}\text{O},4\text{n}\gamma)$. Target: 95.8% enriched ^{198}Pt , E=85 to 97 MeV. Measured $\gamma\gamma(t)$, $n\gamma(t)$, $\gamma(\theta)$ for $\theta=0^\circ$ to 90° . $^{198}\text{Pt}(^{17}\text{O},5\text{n}\gamma)$. Target: 95.8% enriched ^{198}Pt , E=94 to 98 MeV. Measured $n\gamma(t)$ in the range of 2 μs , $E\gamma$, $I\gamma$. Detectors:Ge(Li),Ge(Li) Compton-suppressed spectrometer. Measured conversion electrons. Detector: Si(Li) with a “MINI-orange” magnetic filter. The detection efficiency of the Ge(Li) and of the electron spectrometer were determined using calibrated sources of ^{152}Eu , ^{207}Bi , ^{113}Sn , ^{137}Cs , and ^{65}Zn . Deduced γ -ray multipolarities. Measured half-lives using the pulsed-beam method.

1981Ma28: $^{202}\text{Hg}(^{12}\text{C},4\text{n}\gamma)$. Target: 96.3% enriched ^{202}Hg , E=80 MeV. Measured differential perturbed angular distributions of γ rays (DPAD). Deduced g-factors, half-lives. Detector:Ge(Li).

1986Po01: $^{202}\text{Hg}(^{12}\text{C},4\text{n}\gamma)$, E=78 MeV. Measured time-differential perturbed angular distribution of γ rays (TDPAD), g-factors. Detectors:Ge(Li).

1985Po13: $^{198}\text{Pt}(^{17}\text{O},5\text{n}\gamma)$. Target: 95.8% enriched ^{198}Pt , E=95 MeV. Measured $\gamma(t)$, pulsed-beam method. Detectors:Ge(Li). Deduced level half-lives.

1979Po19: $^{204}\text{Pb}(^9\text{Be},3\text{n}\gamma)$, E=40-55 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ coin, $\gamma(t)$ pulsed beam, $\gamma(\theta)$. Deduced γ -ray multipolarities, level half-lives.

 ^{210}Rn Levels

E(level) ^{†&}	J ^π @	T _{1/2} [‡]	Comments
0.0 ^a	0 ⁺		
643.90 ^a 10	2 ⁺		
1461.60 ^a 14	4 ⁺		
1545.10 14	4 ⁺		
1664.70 ^a 15	6 ⁺	7.6 ns 7	T _{1/2} : from 1980Po07 . Other values: 7.6 ns 14 (1982Po03); 10.4 ns 10 (1985Po13). Additional information 1 .
x+1664.6 ^a 1	8 ⁺	644 ns 40	T _{1/2} : weighted average of 631 ns 35 (1982Po03), 750 ns 40 (DPAD) (1981Ma28), 742 ns 35 (1979Po19), and 590 ns 20 (1980Po07). g-factor=0.898 7 (TDPAD) (1986Po01); g-factor=0.883 10 (DPAD) (1981Ma28).
x+2031.60 10	(8 ⁺)		
x+2265.79 8	9 ⁺	<21 ns	
x+2376.88 ^a 8	10 ⁺	<1.4 ns	T _{1/2} : from 1985Po13 .
x+2562.32 11	11 ⁻	64 ns 3	T _{1/2} : weighted average of 64 ns 3 (1982Po03), 58 ns 4 (DPAD) (1981Ma28), 68 ns 4 (1979Po19). g-factor=1.105 10 (DPAD) (1981Ma28). T _{1/2} : from 1985Po13 .
x+2922.62 ^a 12	12 ⁺	<1.4 ns	
x+3110.06 13	12 ⁻	<5.5 ns	
x+3248.06 ^a 13	14 ⁺	76 ns 7	T _{1/2} : weighted average of 72 ns 3 (1982Po03), 99 ns 8 (DPAD) (1981Ma28), and 102 ns 18 (1979Po19). g-factor=1.066 7 (TDPAD) (1986Po01); g-factor=1.043 20 (DPAD) (1981Ma28).
x+3404.14 12	(13) ⁻	<5.5 ns	
x+3782.81 14	(14) ⁻		
x+3812.40 ^a 16	17 ⁻	1.06 μs 5	T _{1/2} : weighted average of 1102 ns 62 (1982Po03), 1000 ns 125 (DPAD) (1981Ma28), and 998 ns 83 (1979Po19). g-factor=1.052 5 (TDPAD) (1986Po01); g-factor=1.039 10 (DPAD) (1981Ma28).
x+3864.28 14	(15) ⁻	<8 ns	
x+3920.03 16	(15 ⁺)	<5.5 ns	

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(HI,xn γ) **2005Po10,1982Po03,1981Ma28 (continued)** ^{210}Rn Levels (continued)

E(level) ^{†&}	J ^π @	T _{1/2} [‡]	Comments
x+4351.70 19	(17 ⁻)		
x+4614.20 19	(18 ⁻)		
x+4730.70 22	(17 ⁻)		
x+4889.12 19	(15 ⁺)		
x+4898.95 20	(16) ⁺	<5.5 ns	
x+4913.72 22	(17 ⁺)		
x+4993.43 ^a 19	20 ⁺	12.3 ns 9	T _{1/2} : weighted average of 13.2 ns 7 (1985Po13) and 11.4 ns 7 (1982Po03). g-factor=1.116 5 (TDPAD) (1986Po01).
x+5046.41 22	(17 ⁺)		
x+5056.20 24	(18 ⁻)		
x+5162.8 3	(19 ⁻)		
x+5170.8 3	(19 ⁻)		
x+5253.87 22	(17 ⁺)		J ^π : From Table 2. Not given in level scheme fig. 1 in 2005Po10 .
x+5380.99 21	(18) ⁺	<5.5 ns	J ^π : from figure 1 and text of 2005Po10 ; (17) ⁺ in Table 2.
x+5383.87 20	19 ⁺	<5.5 ns	
x+5684.64 21	(19) ⁺	<5.5 ns	
x+5861.0 4	(20) ⁻		
x+5866.33 20	21 ⁺	<5.5 ns	
x+5876.31 ^a 20	20 ⁺	<7 ns	
x+6036.02 ^a 21	21 ⁺	<7 ns	
x+6469.02 ^a 21	23 ⁺	1.04 μs 7	g-factor=0.701 7 (TDPAD) (1986Po01).
x+6525.83 23	(22) ⁺		
x+6543.4 3	(21) ⁺		
x+6895.12 23	24 ⁺	<35 ns	
x+7035.9 4	(23) ⁺		
x+7224.3 4	(23) ⁺		
x+7311.02 ^a 23	26 ⁻	34 ns 2	g-factor=0.733 9 (TDPAD) (1986Po01).
x+7329.4 5	(24 ⁺)		
x+7379.8 3			
x+7419.3 4	(25 ⁺)		
x+7460.4 5	(24 ⁺)		
x+7875.12 25	(27 ⁻)		
x+7973.4 3	(26) ⁻		
x+7978.6 4	(27 ⁻)		
x+8263.3 5	(27 ⁻)		
x+8556.13 ^a 25	29 ⁺	1.8 ns 2	T _{1/2} : from 1985Po13 .
x+8887.4 9			
x+8899.1 4	(29 ⁺)		
x+8928.6 4	(29 ⁺)		
x+9249.6 ^a 3	30 ⁺	<0.69 [#] ns	
x+9569.3 3	(30 ⁻)		
x+9735.6 4	(31 ⁻)		
x+9764.7 ^a 3	31 ⁺	<0.69 [#] ns	
x+10079.9 3	(31 ⁺)		
x+10086.8 ^a 3	32 ⁺	<0.69 [#] ns	
x+10752.1 ^a 4	(34 ⁺)	<0.69 [#] ns	
x+10835.6 6	(33 ⁺)		
x+10975.4 4	(34 ⁺)		
x+11185.9 5	(35 ⁻)		
x+11492.3 7	(36 ⁻)		
x+11978.4 7	(36 ⁻)		
x+12026.0 ^a 5	(37 ⁻)	<0.69 [#] ns	

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(HI,xny) **2005Po10,1982Po03,1981Ma28 (continued)** ^{210}Rn Levels (continued)[†] Deduced by evaluator from a least-squares fit to γ -ray energies.[‡] $\gamma(t)$ pulsed-beam method ([1982Po03](#)), unless otherwise specified.[#] From [2005Po10](#).

[@] Spin and parity assignments are based on γ -ray multipolarities and $\gamma(\theta)$. Shell-model configurations are based on a comparison between experimental level energies with calculated values where the four valence protons were restricted to the $1\text{h}9/2$, $2\text{f}7/2$, and $1\text{i}13/2$ orbitals, and the neutron holes, to the $3\text{p}_{1/2}$, $3\text{p}3/2$, and $2\text{f}5/2$ orbitals. The strong E3 transitions from the $3812+x$ ($J^\pi=17^-$) and $4994+x$ ($J^\pi=20^+$) levels are consistent with systematics of E3 transitions in this mass region, and their strengths are comparable to those from the octupole state in ^{208}Pb , and to the ($i13/2$ to $h9/2$) transition in ^{209}Bi . This gives additional support to the assigned shell model configurations. The suggested core excited configurations for levels above the $6469+x$ “YRAST trap” explain the strong E3 transitions connecting these levels. See also [1986Po01](#) for a comparison of experimental g-factors and B(E3) values with semi-empirical shell model calculations which include couplings to the 3^- octupole vibration of the core. See Adopted Levels for evaluator's adopted values. For multi-particle configurations proposed for all the excited states in ^{210}Rn – please see [2005Po10](#) and [1982Po03](#).

& $x < 50$ keV, based on detection efficiency of a possible γ ray between the $x+1665$ and 1665 levels ([1982Po03](#)).^a Band(A): yrast sequence ([2005Po10](#)). $\gamma(^{210}\text{Rn})$

E_γ^{\dagger}	I_γ^{\dagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^a	α^b	Comments
(10 [@])		x+4898.95	(16) ⁺	x+4889.12	(15 ⁺)			
(15 [@])		x+4913.72	(17 ⁺)	x+4898.95	(16 ⁺)			
(≈45 [@])		x+1664.6	8 ⁺	1664.70	6 ⁺			
(82 [@])		x+3864.28	(15) ⁻	x+3782.81	(14) ⁻			
111.1 [‡] 1	19 3	x+2376.88	10 ⁺	x+2265.79	9 ⁺	M1	9.73	E_γ : Estimated in 2006Ku26 (^{214}Ra α decay: 68.6 μs) – γ ray not observed. Experimental limit ≤ 50 in 1979Po19 and 1982Po03 .
119.6 [#] 1	59 2	1664.70	6 ⁺	1545.10	4 ⁺	E2	3.88	$\alpha(K)=7.85~12$; $\alpha(L)=1.434~21$; $\alpha(M)=0.341~5$ $\alpha(N)=0.0888~13$; $\alpha(O)=0.0194~3$; $\alpha(P)=0.00284~4$ Mult.: from $\alpha(\text{exp})=14~4$ (transition intensity balance – 1982Po03).
127.4 2	4 1	x+5380.99	(18) ⁺	x+5253.87	(17 ⁺)	M1	6.59	$\alpha(K)=5.32~8$; $\alpha(L)=0.967~15$; $\alpha(M)=0.230~4$ $\alpha(N)=0.0599~9$; $\alpha(O)=0.01311~20$; $\alpha(P)=0.00191~3$
133.0 2	2 1	x+5046.41	(17 ⁺)	x+4913.72	(17 ⁺)			
159.7 [‡] 1	74 5	x+6036.02	21 ⁺	x+5876.31	20 ⁺	M1 ^a	3.47	$\alpha(K)=2.80~4$; $\alpha(L)=0.507~8$; $\alpha(M)=0.1204~17$ $\alpha(N)=0.0314~5$; $\alpha(O)=0.00687~10$; $\alpha(P)=0.001003~15$ Mult.: from $\alpha(\text{exp})=5.2~20$ (transition intensity balance – 1982Po03). $\alpha(L)\text{exp}=0.51~2~\$$ $\alpha(M)\text{exp}=0.109~14$ (2005Po10).
166.3 2	3 2	x+9735.6	(31 ⁻)	x+9569.3	(30 ⁻)			
185.5 1	87 9	x+2562.32	11 ⁻	x+2376.88	10 ⁺	E1	0.1032	$\alpha(K)=0.0826~12$; $\alpha(L)=0.01569~22$; $\alpha(M)=0.00373~6$ $\alpha(N)=0.000962~14$; $\alpha(O)=0.000204~3$; $\alpha(P)=2.73\times 10^{-5}~4$ Mult.: from $\alpha(\text{exp})<0.07$ (transition intensity balance – 1982Po03); $\alpha(L)\text{exp}=0.144~17$ (deduced from prompt spectra – 2005Po10).
191.7 [‡] 1	43 9	x+5876.31	20 ⁺	x+5684.64	(19) ⁺	M1	2.07	$A_2=-0.06~13$ (2005Po10)

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(HI,xn γ) 2005Po10,1982Po03,1981Ma28 (continued) $\gamma(^{210}\text{Rn})$ (continued)

E_{γ}^{\dagger}	I_{γ}^{\dagger}	$E_i(\text{level})$	J_i^{π}	E_f	J_f^{π}	Mult. $\&$	α^b	Comments
203.1 1	553 13	1664.70	6 ⁺	1461.60	4 ⁺	E2	0.495	$\alpha(K)=1.675\ 24; \alpha(L)=0.302\ 5;$ $\alpha(M)=0.0718\ 11$ $\alpha(N)=0.0187\ 3; \alpha(O)=0.00409\ 6;$ $\alpha(P)=0.000598\ 9$ Mult.: from $\alpha(\text{exp})=1.7\ 6$ (transition intensity balance). $A_2=+0.16\ 8$ (2005Po10) $\alpha(K)=0.1594\ 23; \alpha(L)=0.248\ 4;$ $\alpha(M)=0.0663\ 10$ $\alpha(N)=0.01727\ 25; \alpha(O)=0.00352\ 5;$ $\alpha(P)=0.000405\ 6$ Mult.: From $\alpha(L1)\text{exp}+\alpha(L2)\text{exp}=0.161\ 11$, $\alpha(L3)\text{exp}=0.092\ 8$, $\alpha(M)\text{exp}=0.071\ 9$ (2005Po10).
210.5 2	2 1	x+11185.9	(35 ⁻)	x+10975.4	(34 ⁺)			
236.1 2	12 5	x+7460.4	(24 ⁺)	x+7224.3	(23) ⁺			
284.7 2	5 4	x+8263.3	(27 ⁻)	x+7978.6	(27 ⁻)			
293.5 2	11 3	x+7329.4	(24 ⁺)	x+7035.9	(23) ⁺			
294.1 1	14 3	x+3404.14	(13) ⁻	x+3110.06	12 ⁻	M1	0.631	$\alpha(K)=0.511\ 8; \alpha(L)=0.0914\ 13;$ $\alpha(M)=0.0217\ 3$ $\alpha(N)=0.00565\ 8; \alpha(O)=0.001237\ 18;$ $\alpha(P)=0.000181\ 3$ Mult.: From $\alpha(K)\text{exp}=0.45\ 4$ (2005Po10).
303.6 [‡] 1	119 5	x+5684.64	(19) ⁺	x+5380.99	(18) ⁺	M1+E2	0.36 23	$A_2=-0.12\ 10$ (2005Po10) $\alpha(K)=0.27\ 20; \alpha(L)=0.066\ 18;$ $\alpha(M)=0.016\ 4$ $\alpha(N)=0.0043\ 10; \alpha(O)=0.00091\ 23;$ $\alpha(P)=0.00012\ 5$ Mult.: From $\alpha(K)\text{exp}=0.16\ 5$ (2005Po10).
315.2 1	9 3	x+10079.9	(31 ⁺)	x+9764.7	31 ⁺			
319.7 1	13 4	x+9569.3	(30 ⁻)	x+9249.6	30 ⁺			
322.1 1	49 5	x+10086.8	32 ⁺	x+9764.7	31 ⁺	M1+E2	0.30 19	$A_2=+0.07\ 21$ (2005Po10) $\alpha(K)=0.23\ 17; \alpha(L)=0.055\ 16;$ $\alpha(M)=0.014\ 4$ $\alpha(N)=0.0035\ 9; \alpha(O)=0.00076\ 21;$ $\alpha(P)=0.00010\ 4$ Mult.: From $\alpha(\text{exp})=0.14\ 9$, $\alpha(\text{exp})$ determined from analysis of γ -ray intensity balances in coincidence with the 665.3 transition as a direct conversion coefficient measurement was not possible.
325.4 1	628 11	x+3248.06	14 ⁺	x+2922.62	12 ⁺	E2 ^a	0.1086	$A_2=+0.18\ 3$ (2005Po10) $\alpha(K)=0.0578\ 9; \alpha(L)=0.0378\ 6;$ $\alpha(M)=0.00987\ 14$ $\alpha(N)=0.00257\ 4; \alpha(O)=0.000531\ 8;$ $\alpha(P)=6.43\times10^{-5}\ 9$ Mult.: from $\alpha(K)\text{exp}=0.068\ 7$ (1982Po03); $\alpha(K)\text{exp}=0.0542\ 23,$ $\alpha(L1)\text{exp}+\alpha(L2)\text{exp}=0.0295\ 13$ (2005Po10).
325.5 1	18 5	x+5056.20	(18 ⁻)	x+4730.70	(17 ⁻)	M1	0.478	$\alpha(K)=0.387\ 6; \alpha(L)=0.0691\ 10;$ $\alpha(M)=0.01640\ 23$ $\alpha(N)=0.00427\ 6; \alpha(O)=0.000935\ 14;$ $\alpha(P)=0.0001366\ 20$ Mult.: From $\alpha(K)\text{exp}=0.50\ 4$ (deduced from prompt spectra – 2005Po10).

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(HI,xn γ) 2005Po10,1982Po03,1981Ma28 (continued) $\gamma(^{210}\text{Rn})$ (continued)

E_γ^{\dagger}	I_γ^{\dagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	a^b	Comments
343.0 2	6 1	x+8899.1	(29 ⁺)	x+8556.13	29 ⁺			
355.0 1	63 10	x+5253.87	(17 ⁺)	x+4898.95	(16) ⁺	M1	0.377	$\alpha(K)=0.306\ 5; \alpha(L)=0.0545\ 8; \alpha(M)=0.01292\ 19$ $\alpha(N)=0.00337\ 5; \alpha(O)=0.000737\ 11;$ $\alpha(P)=0.0001076\ 15$
360.4 2	2 1	x+2922.62	12 ⁺	x+2562.32	11 ⁻	E1	0.0220	Mult.: From $\alpha(K)\exp=0.324\ 28$ (2005Po10). $\alpha(K)=0.0179\ 3; \alpha(L)=0.00312\ 5;$ $\alpha(M)=0.000738\ 11$ $\alpha(N)=0.000191\ 3; \alpha(O)=4.10\times 10^{-5}\ 6;$ $\alpha(P)=5.71\times 10^{-6}\ 8$
367.0 1	27 8	x+2031.60	(8 ⁺)	x+1664.6	8 ⁺			Mult.: From table 2 in 2005Po10.
372.5 2	6 3	x+8928.6	(29 ⁺)	x+8556.13	29 ⁺			
378.7 1	17 4	x+3782.81	(14) ⁻	x+3404.14	(13) ⁻	M1	0.316	$\alpha(K)=0.256\ 4; \alpha(L)=0.0457\ 7; \alpha(M)=0.01083\ 16$ $\alpha(N)=0.00282\ 4; \alpha(O)=0.000617\ 9;$ $\alpha(P)=9.02\times 10^{-5}\ 13$
379.0 1	28 7	x+4730.70	(17 ⁻)	x+4351.70	(17 ⁻)			Mult.: $\alpha(K)\exp=0.256\ 24$ (deduced from prompt spectra -2005Po10).
^x 381.5 1	≥ 3							
383.4 1	16 3	x+7419.3	(25 ⁺)	x+7035.9	(23) ⁺			
^x 387.3 3	4 2							
390.4 1	87 8	x+5383.87	19 ⁺	x+4993.43	20 ⁺	M1	0.291	$A_2=+0.00\ 13$ (2005Po10) $\alpha(K)=0.236\ 4; \alpha(L)=0.0420\ 6; \alpha(M)=0.00996\ 14$ $\alpha(N)=0.00260\ 4; \alpha(O)=0.000568\ 8;$ $\alpha(P)=8.30\times 10^{-5}\ 12$
								Mult.: From $\alpha(K)\exp=0.28\ 4$ (1982Po03); $\alpha(K)\exp=0.32\ 5, \alpha(L)\exp=0.053\ 13$ (2005Po10).
^x 390.4 3	6 3							
^x 390.7 3								$I_\gamma:$ weak γ ray.
415.9 1	23 3	x+7311.02	26 ⁻	x+6895.12	24 ⁺	M2 ^b	0.750	$\alpha(K)=0.569\ 8; \alpha(L)=0.1362\ 19; \alpha(M)=0.0337\ 5$ $\alpha(N)=0.00885\ 13; \alpha(O)=0.00193\ 3;$ $\alpha(P)=0.000277\ 4$
								Mult.: From $\alpha(\text{exp})=0.50\ 14, \alpha(K)\exp=0.63\ 4,$ $\alpha(L)\exp=0.149\ 16$ (2005Po10).
426.1 1	59 8	x+6895.12	24 ⁺	x+6469.02	23 ⁺	M1	0.230	$A_2=-0.14\ 18$ (2005Po10) $\alpha(K)=0.187\ 3; \alpha(L)=0.0331\ 5; \alpha(M)=0.00785\ 11$ $\alpha(N)=0.00205\ 3; \alpha(O)=0.000448\ 7;$ $\alpha(P)=6.54\times 10^{-5}\ 10$
								Mult.: From $\alpha(K)\exp=0.29\ 3, \alpha(L)\exp=0.039\ 9$ (2005Po10).
433.0 1	342 25	x+6469.02	23 ⁺	x+6036.02	21 ⁺	E2 ^b	0.0501	$A_2=+0.24\ 5$ (2005Po10) $\alpha(K)=0.0316\ 5; \alpha(L)=0.01376\ 20;$ $\alpha(M)=0.00353\ 5$ $\alpha(N)=0.000920\ 13; \alpha(O)=0.000192\ 3;$ $\alpha(P)=2.42\times 10^{-5}\ 4$
								Mult.: from $\alpha(K)\exp=0.036\ 7$ (1982Po03); $\alpha(K)\exp=0.034\ 4, \alpha(L)\exp=0.0130\ 12,$ $\alpha(M)\exp=0.0041\ 10$ (2005Po10).
460.2 1	6 1	x+3864.28	(15) ⁻	x+3404.14	(13) ⁻			
467.2 1	25 5	x+5380.99	(18) ⁺	x+4913.72	(17 ⁺)			

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(HI,xn γ) **2005Po10,1982Po03,1981Ma28 (continued)** $\gamma(^{210}\text{Rn})$ (continued)

E_γ^{\dagger}	I_γ^{\dagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^a	δ^c	a^b	Comments
482.0 <i>I</i>	13 2	x+5380.99	(18) ⁺	x+4898.95	(16) ⁺				
492.4 [‡] <i>I</i>	52 6	x+5876.31	20 ⁺	x+5383.87	19 ⁺	M1+E2		0.10 6	$A_2=-0.41$ 21 (2005Po10) $\alpha(K)=0.08$ 6; $\alpha(L)=0.016$ 7; $\alpha(M)=0.0038$ 15 $\alpha(N)=0.0010$ 4; $\alpha(O)=0.00021$ 9; $\alpha(P)=3.0\times10^{-5}$ 14 Mult.: From $\alpha(K)\exp=0.065$ 4 \$ $\alpha(L)\exp=0.010$ 2 (2005Po10). $\alpha(K)=0.1124$ 16; $\alpha(L)=0.0199$ 3; $\alpha(M)=0.00470$ 7 $\alpha(N)=0.001226$ 18; $\alpha(O)=0.000268$ 4; $\alpha(P)=3.92\times10^{-5}$ 6
515.1 <i>I</i>	86 8	x+9764.7	31 ⁺	x+9249.6	30 ⁺	M1		0.1385	$A_2=-0.42$ 14 (2005Po10) $\alpha(K)=0.1124$ 16; $\alpha(L)=0.0199$ 3; $\alpha(M)=0.00470$ 7 $\alpha(N)=0.001226$ 18; $\alpha(O)=0.000268$ 4; $\alpha(P)=3.92\times10^{-5}$ 6 Mult.: from $\alpha(K)\exp=0.11$ 3 (1982Po03); $\alpha(K)\exp=0.136$ 7 (2005Po10). $\alpha(K)=0.0995$ 14; $\alpha(L)=0.01756$ 25; $\alpha(M)=0.00416$ 6 $\alpha(N)=0.001083$ 16; $\alpha(O)=0.000237$ 4; $\alpha(P)=3.47\times10^{-5}$ 5
539.3 <i>I</i>	58 10	x+4351.70	(17) ⁻	x+3812.40	17 ⁻	M1		0.1226	$A_2=+0.8$ 3 (2005Po10) $\alpha(K)=0.0995$ 14; $\alpha(L)=0.01756$ 25; $\alpha(M)=0.00416$ 6 $\alpha(N)=0.001083$ 16; $\alpha(O)=0.000237$ 4; $\alpha(P)=3.47\times10^{-5}$ 5 Mult.: From $\alpha(K)\exp=0.088$ 6 (deduced from prompt spectra – 2005Po10). $\alpha(K)=0.0199$ 3; $\alpha(L)=0.00661$ 10; $\alpha(M)=0.001668$ 24 $\alpha(N)=0.000434$ 6; $\alpha(O)=9.15\times10^{-5}$ 13; $\alpha(P)=1.189\times10^{-5}$ 17
545.7 <i>I</i>	748 20	x+2922.62	12 ⁺	x+2376.88	10 ⁺	E2 ^d		0.0287	Mult.: from $\alpha(K)\exp=0.016$ 4 (1982Po03); $\alpha(K)\exp=0.018$ 1 \$ $\alpha(L)\exp+\alpha(L2)\exp=0.0060$ 4 \$ $\alpha(L3)\exp=0.00144$ 15 (2005Po10). $\alpha(K)=0.0955$ 14; $\alpha(L)=0.01685$ 24; $\alpha(M)=0.00399$ 6 $\alpha(N)=0.001039$ 15; $\alpha(O)=0.000228$ 4; $\alpha(P)=3.33\times10^{-5}$ 5
547.7 <i>I</i>	64 6	x+3110.06	12 ⁻	x+2562.32	11 ⁻	M1		0.1177	Mult.: from $\alpha(K)\exp=0.083$ 16 (1982Po03); $\alpha(K)\exp=0.114$ 5 \$ $\alpha(L)\exp=0.012$ 3 (deduced from prompt spectra – 2005Po10). $\alpha(K)=0.0955$ 14; $\alpha(L)=0.01685$ 24; $\alpha(M)=0.00399$ 6 $\alpha(N)=0.001039$ 15; $\alpha(O)=0.000228$ 4; $\alpha(P)=3.33\times10^{-5}$ 5
548.6 2	20 6	x+5162.8	(19) ⁻	x+4614.20	(18) ⁻				
^x 558.0 3	13 5								
564.2 <i>I</i>	50 10	x+7875.12	(27) ⁻	x+7311.02	26 ⁻				
564.3 <i>I</i>	600 20	x+3812.40	17 ⁻	x+3248.06	14 ⁺	E3		0.0851	$A_2=+0.20$ 8 (2005Po10) $\alpha(K)=0.0454$ 7; $\alpha(L)=0.0294$ 5; $\alpha(M)=0.00775$ 11 $\alpha(N)=0.00203$ 3; $\alpha(O)=0.000423$ 6; $\alpha(P)=5.32\times10^{-5}$ 8 Mult.: from $\alpha(K)\exp=0.051$ 5 (1982Po03); $\alpha(K)\exp=0.0462$ 13, $\alpha(L3)\exp=0.0037$ 4, $\alpha(M)\exp=0.0074$ 4 (2005Po10). $\alpha(K)=0.0872$ 13; $\alpha(L)=0.01537$ 22; $\alpha(M)=0.00364$ 6 $\alpha(N)=0.000948$ 14; $\alpha(O)=0.000207$ 3;
566.9 3	45 10	x+7035.9	(23) ⁺	x+6469.02	23 ⁺	M1		0.1074	

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(HI,xn γ) 2005Po10,1982Po03,1981Ma28 (continued) $\gamma(^{210}\text{Rn})$ (continued)

E_γ^{\dagger}	I_γ^{\dagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^a	δ^c	α^b	Comments
601.2 [‡] 1	219 13	x+2265.79	9 ⁺	x+1664.6	8 ⁺	M1+E2	-0.20 5	0.0893 19	$\alpha(P)=3.03 \times 10^{-5}$ 5 Mult.: From $\alpha(K)\exp=0.098$ 13 (deduced from prompt spectra – 2005Po10).
602.7 1	29 5	x+6469.02	23 ⁺	x+5866.33	21 ⁺	E2		0.0229	$\alpha_2=-0.09$ 15 (2005Po10) $\alpha(K)=0.0724$ 16; $\alpha(L)=0.01282$ 25; $\alpha(M)=0.00304$ 6 $\alpha(N)=0.000791$ 15; $\alpha(O)=0.000173$ 4; $\alpha(P)=2.53 \times 10^{-5}$ 5 Mult., δ : from $\alpha(K)\exp=0.065$ 7, and $\gamma(\theta)$ (1982Po03); $\alpha(K)\exp=0.056$ 3 \$ $\alpha(L)\exp=0.015$ 1 (2005Po10). $\alpha(K)=0.01635$ 23; $\alpha(L)=0.00494$ 7; $\alpha(M)=0.001237$ 18 $\alpha(N)=0.000322$ 5; $\alpha(O)=6.81 \times 10^{-5}$ 10; $\alpha(P)=8.97 \times 10^{-6}$ 13 Mult.: From tables 2 and 3 and text of 2005Po10; M1+E2 in Table 1.
616.2 1	58 7	x+3864.28	(15) ⁻	x+3248.06	14 ⁺	E1		0.00725	$\alpha_2=-0.10$ 27 (2005Po10) $\alpha(K)=0.00596$ 9; $\alpha(L)=0.000982$ 14; $\alpha(M)=0.000230$ 4 $\alpha(N)=5.97 \times 10^{-5}$ 9; $\alpha(O)=1.293 \times 10^{-5}$ 19; $\alpha(P)=1.84 \times 10^{-6}$ 3 Mult.: from $\alpha(K)\exp<0.007$ (1982Po03).
638.3 1	29 4	x+5684.64	(19) ⁺	x+5046.41	(17) ⁺				$\alpha_2=+0.16$ 3 (2005Po10)
643.9 1	1000 30	643.90	2 ⁺	0.0	0 ⁺	E2		0.0198	$\alpha(K)=0.01440$ 21; $\alpha(L)=0.00409$ 6; $\alpha(M)=0.001021$ 15 $\alpha(N)=0.000266$ 4; $\alpha(O)=5.63 \times 10^{-5}$ 8; $\alpha(P)=7.49 \times 10^{-6}$ 11 Mult.: from $\alpha(K)\exp=0.014$ 2, $\alpha(L)\exp=0.0034$ 4 (1982Po03).
659.5 1	31 5	x+6525.83	(22) ⁺	x+5866.33	21 ⁺	M1		0.0720	$\alpha(K)=0.0585$ 9; $\alpha(L)=0.01027$ 15; $\alpha(M)=0.00243$ 4 $\alpha(N)=0.000633$ 9; $\alpha(O)=0.0001385$ 20; $\alpha(P)=2.03 \times 10^{-5}$ 3 Mult.: From $\alpha(K)\exp=0.058$ 8, $\alpha(L)\exp=0.015$ 4 (2005Po10).
662.4 2	21 3	x+7973.4	(26) ⁻	x+7311.02	26 ⁻	M1		0.0712	$\alpha(K)=0.0579$ 9; $\alpha(L)=0.01015$ 15; $\alpha(M)=0.00240$ 4 $\alpha(N)=0.000625$ 9; $\alpha(O)=0.0001369$ 20; $\alpha(P)=2.00 \times 10^{-5}$ 3

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(HI,xn γ) 2005Po10,1982Po03,1981Ma28 (continued) $\gamma(^{210}\text{Rn})$ (continued)

E_γ^{\dagger}	I_γ^{\dagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ^{&}	α^b	Comments
665.3 2	23 3	x+10752.1	(34 ⁺)	x+10086.8	32 ⁺			Mult.: $\alpha(K)\exp=0.095$ 9, $\alpha(L)\exp=0.025$ 5 (deduced from prompt spectra – 2005Po10).
667.6 3	6 3	x+7978.6	(27 ⁻)	x+7311.02	26 ⁻			
672.0 1	21 3	x+3920.03	(15 ⁺)	x+3248.06	14 ⁺			
672.7 1	12 3	x+3782.81	(14) ⁻	x+3110.06	12 ⁻			
677.1 2	16 8	x+6543.4	(21) ⁺	x+5866.33	21 ⁺	M1	0.0672	$\alpha(K)=0.0546$ 8; $\alpha(L)=0.00958$ 14; $\alpha(M)=0.00227$ 4 $\alpha(N)=0.000590$ 9; $\alpha(O)=0.0001292$ 19; $\alpha(P)=1.89\times10^{-5}$ 3
681.4 2	18 4	x+8556.13	29 ⁺	x+7875.12	(27 ⁻)	M2	0.1700	Mult.: From $\alpha(K)\exp=0.05$ 2 (2005Po10). $\alpha(K)=0.1328$ 19; $\alpha(L)=0.0281$ 4; $\alpha(M)=0.00683$ 10 $\alpha(N)=0.00179$ 3; $\alpha(O)=0.000390$ 6; $\alpha(P)=5.64\times10^{-5}$ 8
690.2 2		x+5861.0	(20) ⁻	x+5170.8	(19 ⁻)	M1	0.0639	Mult.: From Table 2 in 2005Po10. $\alpha(K)=0.0519$ 8; $\alpha(L)=0.00910$ 13; $\alpha(M)=0.00215$ 3 $\alpha(N)=0.000561$ 8; $\alpha(O)=0.0001228$ 18; $\alpha(P)=1.80\times10^{-5}$ 3
693.5 1	88 9	x+9249.6	30 ⁺	x+8556.13	29 ⁺	M1+E2	0.040 23	Mult.: From $\alpha(K)\exp=0.08$ 3 (deduced from prompt spectra – 2005Po10). I_γ : weak transition. $\alpha(K)=0.032$ 20; $\alpha(L)=0.006$ 3; $\alpha(M)=0.0015$ 7 $\alpha(N)=0.00038$ 17; $\alpha(O)=8.E-5$ 4; $\alpha(P)=1.2\times10^{-5}$ 6
^x 705.1 4	8 3							Mult.: $\alpha(K)\exp=0.020$ 3 (deduced from prompt spectra – 2005Po10).
712.3 1	700 26	x+2376.88	10 ⁺	x+1664.6	8 ⁺	E2 ^a	0.01602	$A_2=+0.21$ 9 (2005Po10) $\alpha(K)=0.01189$ 17; $\alpha(L)=0.00311$ 5; $\alpha(M)=0.000770$ 11 $\alpha(N)=0.000201$ 3; $\alpha(O)=4.27\times10^{-5}$ 6; $\alpha(P)=5.74\times10^{-6}$ 8
740.2 5	40 10	x+11492.3	(36 ⁻)	x+10752.1	(34 ⁺)			Mult.: from $\alpha(K)\exp=0.011$ 1 (1982Po03); $\alpha(K)\exp=0.0112$ 5 \$ $\alpha(L)\exp=0.0035$ 2 (2005Po10).
755.7 5	9 3	x+10835.6	(33 ⁺)	x+10079.9	(31 ⁺)			
^x 769.3 5	19 3							
792.5 5	7 3	x+11978.4	(36 ⁻)	x+11185.9	(35 ⁻)			
801.8 1	71 15	x+4614.20	(18 ⁻)	x+3812.40	17 ⁻	M1	0.0431	$A_2=-0.28$ 20 (2005Po10) $\alpha(K)=0.0351$ 5; $\alpha(L)=0.00612$ 9; $\alpha(M)=0.001448$ 21 $\alpha(N)=0.000377$ 6; $\alpha(O)=8.26\times10^{-5}$ 12; $\alpha(P)=1.208\times10^{-5}$ 17
817.7 [#] 1	827 30	1461.60	4 ⁺	643.90	2 ⁺	E2	0.01207	Mult.: From $\alpha(K)\exp=0.0311$ 21, $\alpha(L)\exp=0.0087$ 10 (deduced from prompt spectra – 2005Po10).
								$A_2=+0.19$ 3 (2005Po10) $\alpha(K)=0.00918$ 13; $\alpha(L)=0.00218$ 3; $\alpha(M)=0.000535$ 8 $\alpha(N)=0.0001392$ 20; $\alpha(O)=2.98\times10^{-5}$ 5;

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(HI,xn γ) 2005Po10,1982Po03,1981Ma28 (continued) $\gamma(^{210}\text{Rn})$ (continued)

E_γ^{\dagger}	I_γ^{\dagger}	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α^b	Comments
841.9 1	40 7	x+3404.14	(13) ⁻	x+2562.32	11 ⁻	E2	0.01139	$\alpha(P)=4.06 \times 10^{-6} 6$ Mult.: From $\alpha(K)\exp=0.0092 3$, $\alpha(L)\exp=0.00203 13$ (2005Po10). $\alpha(K)=0.00870 13$; $\alpha(L)=0.00203 3$; $\alpha(M)=0.000497 7$ $\alpha(N)=0.0001292 18$; $\alpha(O)=2.77 \times 10^{-5} 4$; $\alpha(P)=3.79 \times 10^{-6} 6$ Mult.: from $\alpha(K)\exp=0.017 2$ (1982Po03); $\alpha(K)\exp=0.011 2$ (2005Po10).
842.0 [‡] 1	230 30	x+7311.02	26 ⁻	x+6469.02	23 ⁺	E3 ^a	0.0291	$A_2=+0.47 9$ (2005Po10) $\alpha(K)=0.0196 3$; $\alpha(L)=0.00709 10$; $\alpha(M)=0.00181 3$ $\alpha(N)=0.000473 7$; $\alpha(O)=0.0001001 14$; $\alpha(P)=1.324 \times 10^{-5} 19$ Mult.: from $\alpha(K)\exp=0.017 2$ (1982Po03); $\alpha(K)\exp=0.0206 18$ \$ $\alpha(L)\exp=0.0072 8$ (2005Po10).
854.0 2	21 5	x+7379.8		x+6525.83	(22) ⁺			
^x 868.6 3	12 3							
872.9 1	154 8	x+5866.33	21 ⁺	x+4993.43	20 ⁺	M1	0.0346	$A_2=-0.31 10$ (2005Po10) $\alpha(K)=0.0281 4$; $\alpha(L)=0.00490 7$; $\alpha(M)=0.001157 17$ $\alpha(N)=0.000301 5$; $\alpha(O)=6.60 \times 10^{-5} 10$; $\alpha(P)=9.66 \times 10^{-6} 14$ Mult.: from $\alpha(K)\exp=0.024 3$ and $\alpha(L)\exp\approx 0.008$ (1982Po03); $\alpha(K)\exp=0.0167 11$, $\alpha(L)\exp=0.0035 8$ (2005Po10).
882.9 [‡] 2	92 8	x+5876.31	20 ⁺	x+4993.43	20 ⁺	M1	0.0336	$A_2=+0.29 15$ (2005Po10) $\alpha(K)=0.0273 4$; $\alpha(L)=0.00475 7$; $\alpha(M)=0.001123 16$ $\alpha(N)=0.000292 4$; $\alpha(O)=6.40 \times 10^{-5} 9$; $\alpha(P)=9.37 \times 10^{-6} 14$ Mult.: from $\alpha(K)\exp=0.029 4$ (1982Po03); $\alpha(K)\exp=0.0273 14$, $\alpha(L)\exp=0.0052 7$ (2005Po10).
888.6 2	12 3	x+10975.4	(34) ⁺	x+10086.8	32 ⁺			$\alpha(K)=0.01717 24$; $\alpha(L)=0.00579 9$;
897.6 2	20 3	x+2562.32	11 ⁻	x+1664.6	8 ⁺	E3	0.0249	$\alpha(M)=0.001468 21$ $\alpha(N)=0.000384 6$; $\alpha(O)=8.14 \times 10^{-5} 12$; $\alpha(P)=1.085 \times 10^{-5} 16$ Mult.: from $\alpha(K)\exp<0.03$ (1982Po03); $\alpha(K)\exp=0.015 3$ (deduced from prompt spectra – 2005Po10).
901.2 1	192 18	1545.10	4 ⁺	643.90	2 ⁺	E2	0.00995	$A_2=+0.23 13$ (2005Po10) $\alpha(K)=0.00768 11$; $\alpha(L)=0.001719 24$; $\alpha(M)=0.000419 6$ $\alpha(N)=0.0001090 16$; $\alpha(O)=2.34 \times 10^{-5} 4$; $\alpha(P)=3.22 \times 10^{-6} 5$ Mult.: $\alpha(K)\exp=0.0075 6$, $\alpha(L)\exp=0.0018 2$ (2005Po10).
914.0 8	10 3	x+8887.4		x+7973.4	(26) ⁻			
969.2 2	12 3	x+4889.12	(15) ⁺	x+3920.03	(15) ⁺	M1+E2	0.017 9	$\alpha(K)=0.014 8$; $\alpha(L)=0.0026 12$; $\alpha(M)=0.0006 3$ $\alpha(N)=0.00016 7$; $\alpha(O)=3.5 \times 10^{-5} 16$;

Continued on next page (footnotes at end of table)

(HI,xn γ) **2005Po10,1982Po03,1981Ma28 (continued)** $\gamma(^{210}\text{Rn})$ (continued)

E_γ^\dagger	I_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.&	a^b	Comments
^x 1014.6 5	8 4							$\alpha(P)=5.0\times10^{-6} 23$ Mult.: From $\alpha(K)\exp=0.016 4$ (2005Po10).
1035.0 3	36 7	x+4898.95	(16) ⁺	x+3864.28	(15) ⁻			$\alpha(K)=0.00211 3; \alpha(L)=0.000332 5;$ $\alpha(M)=7.75\times10^{-5} 11$ $\alpha(N)=2.01\times10^{-5} 3; \alpha(O)=4.38\times10^{-6} 7;$ $\alpha(P)=6.33\times10^{-7} 9$
1086.5 2	37 7	x+4898.95	(16) ⁺	x+3812.40	17 ⁻	E1	0.00254	Mult.: From $\alpha(K)\exp=0.003 1$ (2005Po10).
1106.2 2	22 5	x+4889.12	(15 ⁺)	x+3782.81	(14) ⁻			
1181.0 [‡] 1	395 12	x+4993.43	20 ⁺	x+3812.40	17 ⁻	E3	0.01333	$A_2=+0.19 5$ (2005Po10) $\alpha(K)=0.00989 14; \alpha(L)=0.00259 4;$ $\alpha(M)=0.000643 9$ $\alpha(N)=0.0001678 24; \alpha(O)=3.60\times10^{-5} 5;$ $\alpha(P)=4.94\times10^{-6} 7; \alpha(IPF)=6.95\times10^{-7} 10$ Mult.: from $\alpha(K)\exp=0.0084 9$ (1982Po03); $\alpha(K)\exp=0.0097 5,$ $\alpha(L)\exp=0.0024 3, \alpha(M)\exp=0.00082 19$ (2005Po10).
1245.0 1	112 10	x+8556.13	29 ⁺	x+7311.02	26 ⁻	E3 ^a	0.01189	$A_2=+0.25 10$ (2005Po10) $\alpha(K)=0.00891 13; \alpha(L)=0.00225 4;$ $\alpha(M)=0.000555 8$ $\alpha(N)=0.0001448 21; \alpha(O)=3.11\times10^{-5} 5;$ $\alpha(P)=4.29\times10^{-6} 6; \alpha(IPF)=2.71\times10^{-6} 4$ Mult.: from $\alpha(K)\exp=0.0084 13$ (1982Po03), \$ $\alpha(K)\exp=0.0092 5$ \$ $\alpha(L)\exp=0.0029 2 \alpha(M)\exp=0.00062 16$ (2005Po10).
1273.9 2	5 2	x+12026.0	(37 ⁻)	x+10752.1	(34 ⁺)	E3	0.01132	$\alpha(K)=0.00851 12; \alpha(L)=0.00211 3;$ $\alpha(M)=0.000521 8$ $\alpha(N)=0.0001359 19; \alpha(O)=2.92\times10^{-5} 4;$ $\alpha(P)=4.03\times10^{-6} 6; \alpha(IPF)=4.07\times10^{-6} 6$ Mult.: From $\alpha(K)\exp=0.010 3,$ $\alpha(L)\exp=0.0031 12$ (deduced from prompt spectra – 2005Po10). Additional information 2.
1358.0 3	27 10	x+7224.3	(23) ⁺	x+5866.33	21 ⁺			
1358.4 2	27 10	x+5170.8	(19 ⁻)	x+3812.40	17 ⁻	E2	0.00459	$\alpha(K)=0.00366 6; \alpha(L)=0.000686 10;$ $\alpha(M)=0.0001638 23$ $\alpha(N)=4.26\times10^{-5} 6; \alpha(O)=9.23\times10^{-6} 13;$ $\alpha(P)=1.313\times10^{-6} 19; \alpha(IPF)=2.49\times10^{-5} 4$ Mult.: From $\alpha(K)\exp=0.0032 6$ (deduced from prompt spectra – 2005Po10).

[†] From [2005Po10](#), except otherwise noted.[‡] Weighted average of data from [2005Po10](#) and [1982Po03](#).[#] From [1982Po03](#).[@] Transition not observed, but required by coincidence data or systematic considerations ([2005Po10](#)).[&] From measured $\alpha(K)\exp$ and $\alpha(L)\exp$ values in [2005Po10](#) and [1982Po03](#). Measured values are statistically consistent from these

(HI,xn γ) 2005Po10,1982Po03,1981Ma28 (continued) $\gamma(^{210}\text{Rn})$ (continued)

two measurements.

^a Stretched transition, from $\gamma(\theta)$ (1982Po03).

^b Additional information 3.

^c If No value given it was assumed $\delta=1.00$ for E2/M1, $\delta=1.00$ for E3/M2 and $\delta=0.10$ for the other multipolarities.

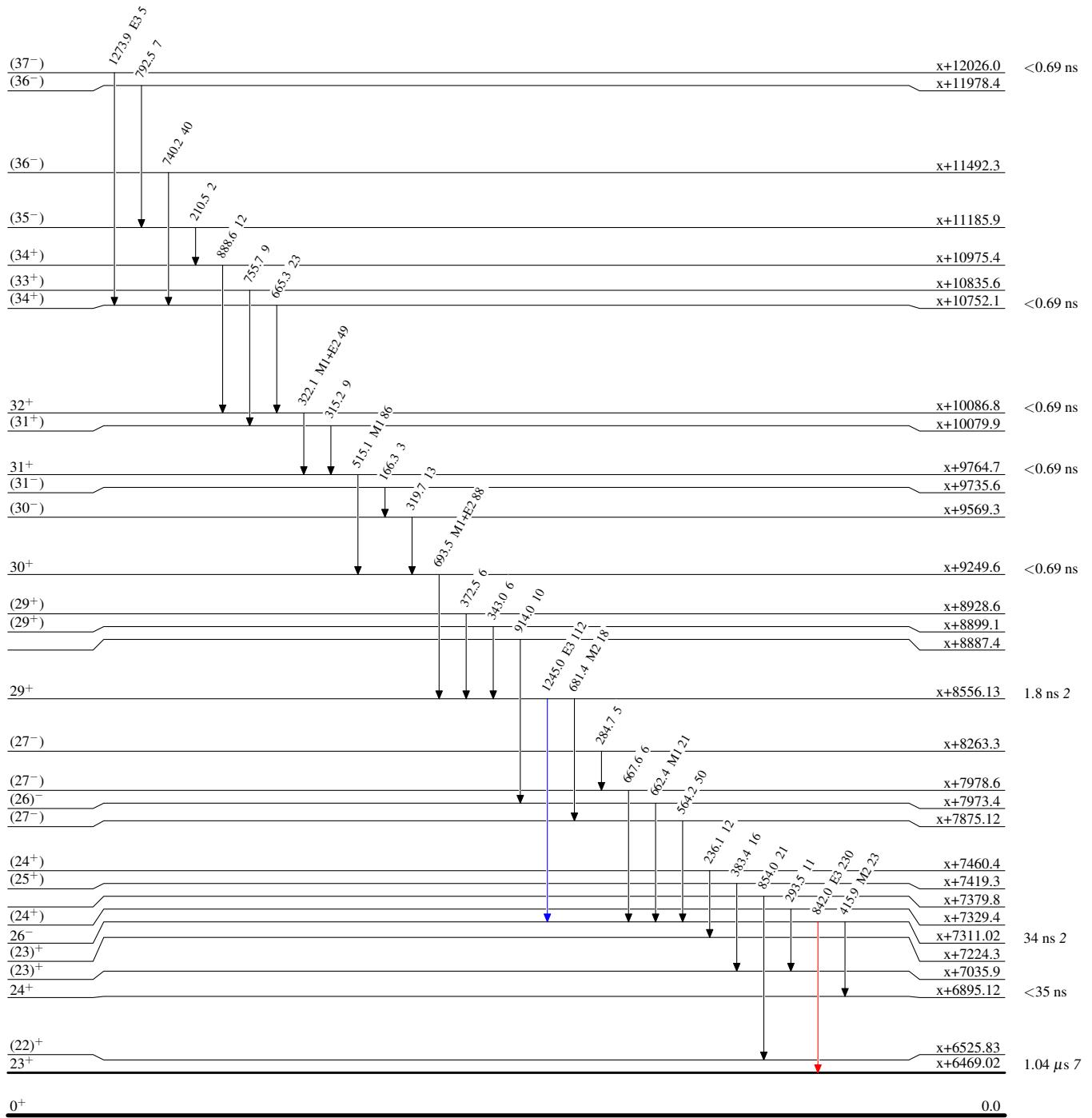
^x γ ray not placed in level scheme.

(HI,xn γ) 2005Po10,1982Po03,1981Ma28

Legend

Level Scheme
 Intensities: Relative I_γ

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



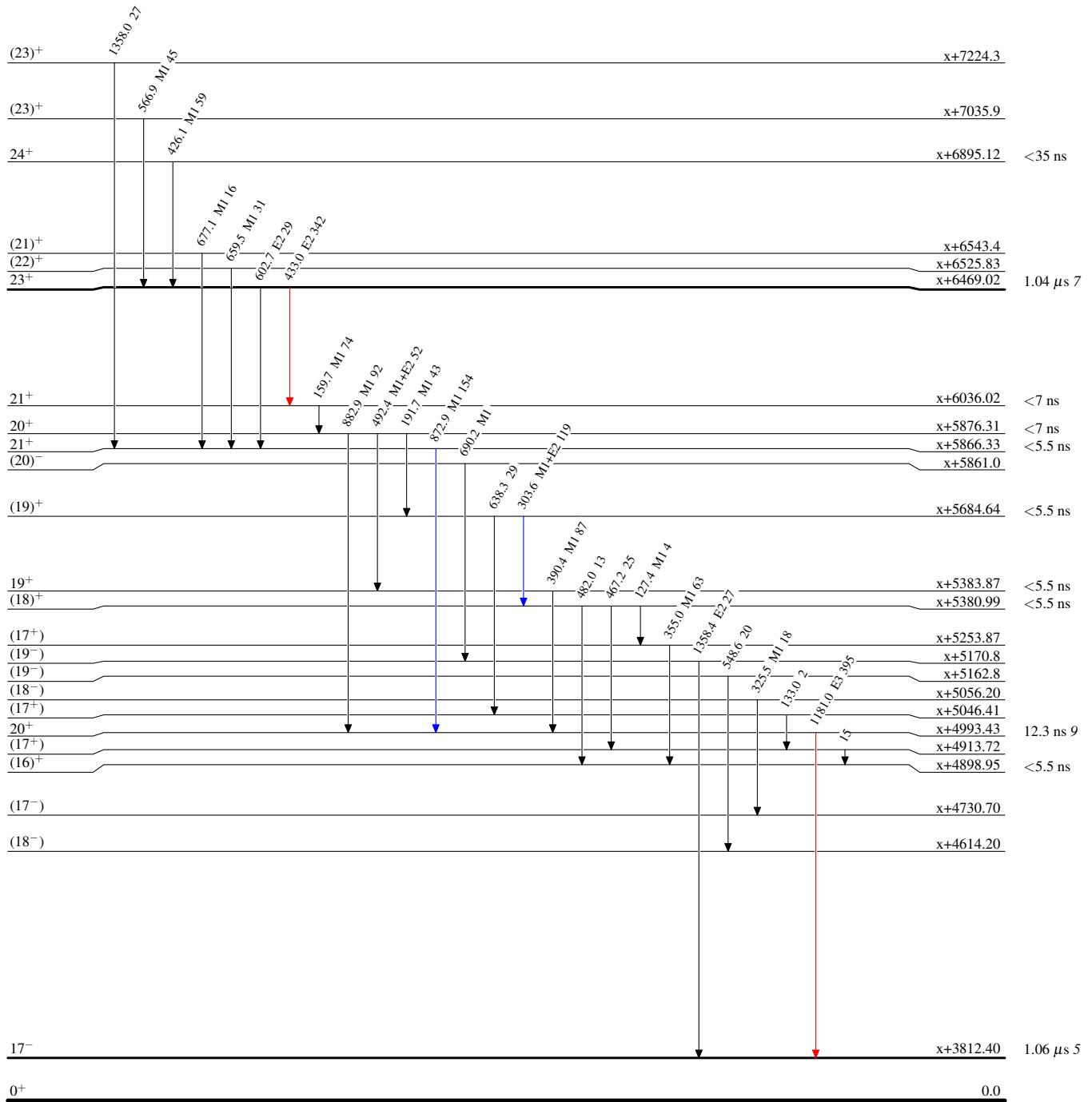
(HI,xn γ) 2005Po10,1982Po03,1981Ma28

Legend

Level Scheme (continued)

Intensities: Relative I_γ

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



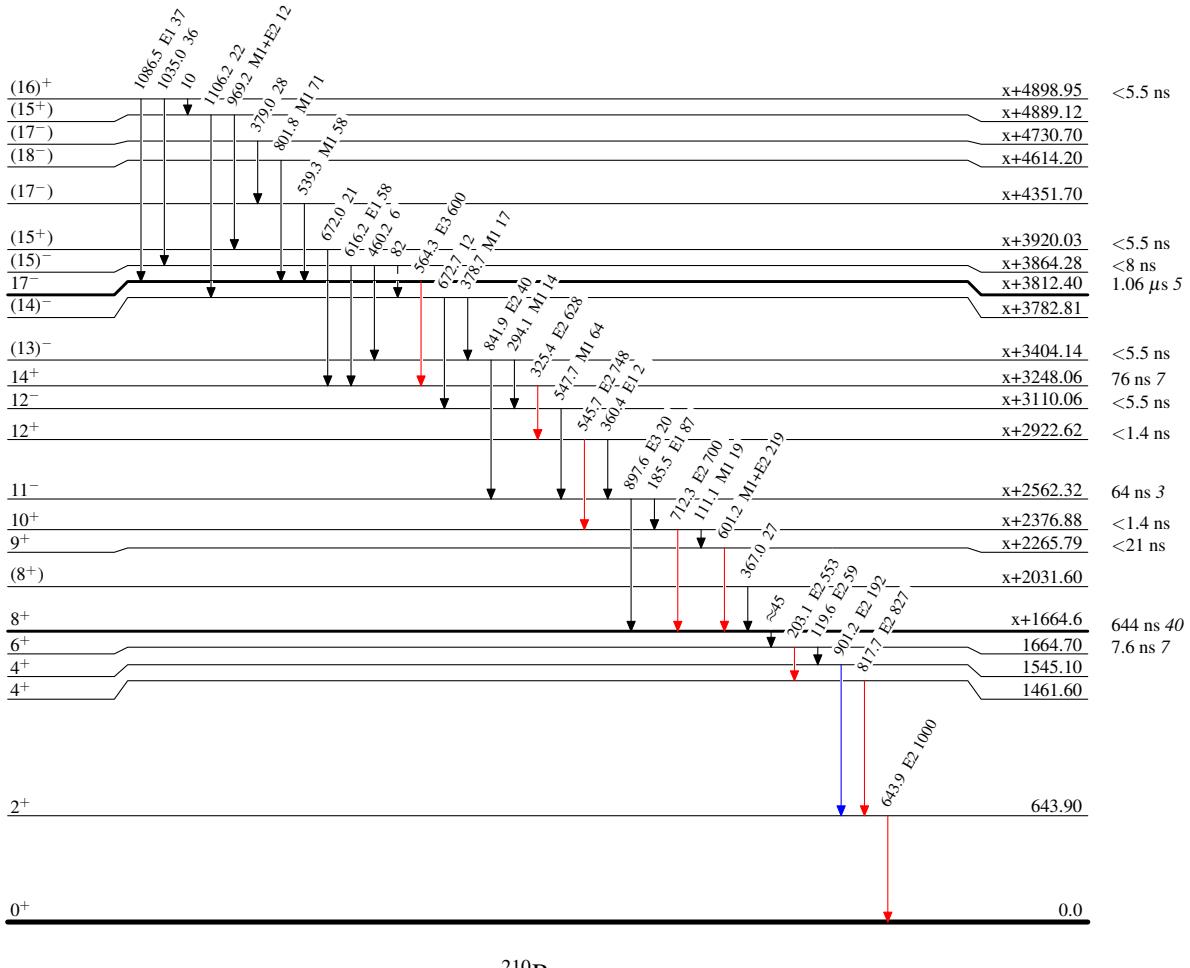
(HI,xn γ) 2005Po10,1982Po03,1981Ma28

Legend

Level Scheme (continued)

Intensities: Relative I_{γ}

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

 $^{210}_{86}\text{Rn}_{124}$

(HI,xn γ) 2005Po10,1982Po03,1981Ma28

Band(A): Yrast sequence (2005Po10)

