^{191}Pt ε decay 1971Pr12,1970Ma10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 195,368 (2024)	1-Dec-2023

Parent: ^{191}Pt: E=0.0; $J^{\pi}=3/2^{-}$; $T_{1/2}$=2.83 d *2*; Q(ε)=1010 *4*; %ε decay=100

1971Pr12: measured γ-rays; γγ-coin, Ge(Li); conversion electrons; ^{191}Pt from ^{190}Pt(n,γ), enriched target 0.40 − 0.76%.

1970Ma10: measured γ-rays; conversion electrons; ^{191}Pt from ^{191}Hg decay, using isotopically separated ^{191}Hg (ISOLDE).

2021Kr02: source obtained from ^{190}Pt(n,γ), natural Pt target, irradiated at the TRIGA reactor, Oregon State University; measured Eγ, Iγ with high-resolution Ge detectors.

2007La18: measured precise Eγ values of 19 γ rays using difference methods with standard Eγ values from the decays of ^{182}Ta and ^{192}Ir. The γ rays were detected by an HPGe detector.

1971Ba45: measured γγ-coin, Ge(Li); conversion electrons, semi; ^{191}Pt from ^{191}Hg decay, using isotopically separated ^{191}Hg (ISOLDE).

1970Sc20: measured γ-rays; γX-coin, Ge(Li)-NaI; ^{191}Pt from nat Ir(d,2n), chemically separated from Ir.

1972Be01: measured γγ(θ). measured Eγ, Iγ, I(ce), γγ(θ). Deduce levels, spin, parity, ?−mixing. Enriched target.

Others: 1953Sw20, 1954Co29, 1954Gi04, 1955To19, 1955Sm42, 1955Su64, 1957Hu89, 1961Di07, 1961Kr02, 1962Ma18, 1966Bl03, 1969Gu15, 1966Sc04, 1967Sc25, 1969Pl06, 1969Ow02, 1970Pl07, 1970Ba56, 1980Be27, 1981La25, 1991BuZY.

^{191}Ir Levels

E(level)[†]	J^{π}[‡]	$T_{1/2}$[#]	Comments
0.0[@]	$3/2^{+}$	stable	
82.4253[&] *19*	$1/2^{+}$	4.10 ns *7*	$T_{1/2}$: From Adopted Levels. Data of this dataset would yield 3.92 ns *30* from weighted average of 3.85 ns *35* (1955Su64 − (β)(ce)(t)), 3.8 ns *3* (K x-ray)(γ)(t) from τ=5.5 ns *5*, 4.1 ns *3* (K x-ray)(ce)(t) from τ=5.9 ns *4* both in 1969Ow02 (also 3.7 ns *6* reported in 1969Ow02 − see (γ,γ′): Mossbauer).
129.426[@] *3*	$5/2^{+}$	89.7 ps *12*	g−factor=+0.244 *22* (recalculated by evaluator for adopted $T_{1/2}$=89.7 ps *12*), perturbed angular correlation (in 1969Ow02 +0.22 *2* for their $T_{1/2}$=99.8 ps *69* from τ=144 ps *10*). $T_{1/2}$: From Adopted Levels.
171.278[a] *11*	$11/2^{-}$	4.899 s *23*	$T_{1/2}$: from Adopted Levels.
178.9772[&] *17*	$3/2^{+}$	43 ps *4*	$T_{1/2}$: Other: 40 ps *12* (1970Ma10 from (ce)(ce)(t)).
343.25[@] *8*	$7/2^{+}$	20.4 ps *8*	
351.1921[&] *20*	$5/2^{+}$	28 ps *4*	
390.950 *10*	$7/2^{-}$	240 ps *20*	$T_{1/2}$: from 1970Ba56, (ce)(ce)(t).
538.9126[b] *22*	$3/2^{+}$	10.7 ps *7*	
587.975 *17*	$3/2^{+},5/2^{+}$	≈0.3 ps	
624.080[b] *4*	$(1/2^{+})$	>9 ps	
658.9196 *18*	$(3/2^{-})$	<0.12 ns	$T_{1/2}$: from 1970Ba56, Auger ce(t).
686.6 *5*	$7/2^{+}$	2.7 ps *3*	E(level): For 686.6γ placement assigned to ^{191}Pt ε decay by evaluator.
747.801[b] *16*	$(5/2)^{+}$		
762.589 *4*	$3/2^{+}$		
799.804 *16*	$(5/2)^{-}$		
935.71 *17*	$(1/2^{+},3/2,5/2^{+})$		

[†] From a least squares fit to γ-ray energies.
[‡] From Adopted Levels.
[#] From Adopted Levels. Data from references of this data set are listed in the comments, if available.
[@] Band(A): 3/2[402].
[&] Band(B): 1/2[400] (possibly mixed with K-2 γ-vibration coupled to 3/2[402]).
[a] Band(C): 11/2[505].
[b] Band(D): 1/2[411].

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

ε radiations

E(decay)	E(level)	Iε[†]	Log *ft*	Comments
(74 *4*)	935.71	0.018 *3*	7.37 *10*	εL=0.701 *5*; εM+=0.299 *6* γ-K x-ray coincidence not observed, εK(935)/εK(539) exp ≤ 0.05, and εL(935)/εL(539) exp=4.4 *7* (1970Sc20); theory with adopted Q(ε): 0 and 4.39, respectively.
(210 *4*)	799.804	0.34 *7*	7.58 *10*	εK=0.678 *5*; εL=0.239 *4*; εM+=0.0830 *13*
(247 *4*)	762.589	0.38 *8*	7.73 *10*	εK=0.709 *3*; εL=0.2170 *20*; εM+=0.0741 *8*
(262 *4*)	747.801	0.32 *6*	7.87 *9*	εK=0.7180 *23*; εL=0.2105 *17*; εM+=0.0715 *7*
(323 *4*)	686.6	0.0008 *4*	10.17[1u] *22*	εK=0.594 *5*; εL=0.297 *4*; εM+=0.1090 *14*
(351 *4*)	658.9196	0.85 *14*	7.76 *8*	εK=0.7521 *11*; εL=0.1860 *8*; εM+=0.0619 *3*
(386 *4*)	624.080	2.7 *5*	7.36 *9*	εK=0.7601 *9*; εL=0.1802 *6*; εM+=0.05964 *24*
(422 *4*)	587.975	0.22 *4*	8.54 *8*	εK=0.7667 *7*; εL=0.1755 *5*; εM+=0.05779 *19*
(471 *4*)	538.9126	34 *6*	6.46 *8*	εK=0.7738 *5*; εL=0.1704 *4*; εM+=0.05583 *15* εK/ε(exp)=0.817 *13*, γ-x-ray coincidence method (1990Bi11).
(619 *4*)	390.950	≤0.19	≥9.0	εK=0.7873 *3*; εL=0.16066 *20*; εM+=0.05208 *8*
(659 *4*)	351.1921	13.4 *21*	7.20 *7*	εK=0.7897 *3*; εL=0.15889 *17*; εM+=0.05140 *7* εK/ε(exp)=0.82 *3*, γ-x-ray sum coincidence method (1990Bi11).
(667 *4*)	343.25	<0.017	>10.3[1u]	εK=0.7433 *7*; εL=0.1920 *5*; εM+=0.06468 *19*
(831 *4*)	178.9772	11.4 *19*	7.49 *8*	εK=0.7973 *2*; εL=0.1534 *1*; εM+=0.04929 *4* εK/ε(exp)=0.82 *3*, γ-x-ray sum coincidence method (1990Bi11).
(881 *4*)	129.426	≤1.4	≥8.5	εK=0.7989 *2*; εL=0.15224 *9*; εM+=0.04885 *4*
(928 *4*)	82.4253	24 *7*	7.27 *13*	εK=0.8002 *1*; εL=0.15128 *8*; εM+=0.04849 *3*
(1010[‡] *4*)	0.0	≤24	≥7.3	εK=0.80224 *9*; εL=0.14982 *7*; εM+=0.04793 *3* Iε: revised to ≤24, consistent with %ε(g.s.)=11 *13*, branch marked questionable as ε feeding to the g.s. is not definite.

[†] Absolute intensity per 100 decays.
[‡] Existence of this branch is questionable.

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir)

Iγ normalization: %ε(g.s.)=11 *13* (≤24), calculated by evaluator from the experimental K x ray intensity (1661 *125*), the number of atomic K vacancies due to internal conversion electrons (720 *33*), by use of theoretical εK/ε ratios and a K-fluorescence yield of 0.958 *4* (1996Sc06). Normalization calculated from decay scheme assuming ΣI(γ+ce) to g.s.=89 *13%*.

Kα$_2$ x ray relative intensity=488 *61*; Kα$_1$ x ray relative intensity=840 *105*; Kβ$_1$ x ray+Kβ$_2$ x ray relative intensity=259 *32*; Kβ$_2$ x ray+Kβ$_4$ x ray relative intensity=74 *9* (1971Pr12).

K x ray relative intensity=1600; L x ray relative intensity= 450 (1970Sc20).

ce: unless otherwise noted, the adopted Ice values shown in the comments are averages from 1971Ba45, 1970Ma10, and 1971Pr12 values, normalized to 1971Pr12 Ice scale. Data from 1971Ba45 and 1970Ma10 were assumed to be in the same scale, and were multiplied by the average of all Ice given by both 1970Ma10 and 1971Pr12.

E_γ [†]	I_γ [d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	δ [a]	α [bc]	Comments
41.93 *3*	0.00070 *9*	171.278	11/2$^-$	129.426	5/2$^+$	E3		1.679×10^4 *25*	%Iγ=5.5×10^{-5} *11* α(L)=1.206×10^4 *18*; α(M)=3.69×10^3 *5* α(N)=914 *13*; α(O)=134.8 *20*; α(P)=0.1439 *21* E$_\gamma$: from 1970Ba56. I$_\gamma$: From ce(L2):ce(L3) exp=4.1 *8*:4.9 *8* (1970Ba56 normalized value) and subshell theoretical ICCs. Mult.: from ^{191}Os β$^-$ decay (15.4 d).
49.548 *4*	0.44 *5*	178.9772	3/2$^+$	129.426	5/2$^+$	M1+E2	0.17 *4*	11.3 *15*	%Iγ=0.035 *7* α(L)=8.6 *11*; α(M)=2.05 *28* α(N)=0.50 *7*; α(O)=0.085 *10*; α(P)=0.00475 *9* E$_\gamma$: Weighted average of 49.59 *3* (1970Ma10) and 49.548 *3* (1995BuZZ). I$_\gamma$: from adopted Iγ(96.5γ) and Iγ(49.6γ)/Iγ(96.5γ) calculated as the average from: relative Iγ deduced from ce(L) ratio and adopted α(L); I(γ+ce)(49.6):I(γ+ce)(96.5)=5 *1*:316 *14* from γγ coinc in 1971Pr12 and adopted α. Mult.,δ: from ce(L1):ce(L2):ce(L3) exp=3.0 *4*:0.98 *16*:0.7 *3* (1970Ma10 normalized value).
82.40 *5*	60 *3*	82.4253	1/2$^+$	0.0	3/2$^+$	M1+E2	−0.871 *18*	10.55 *15*	%Iγ=4.7 *7* α(K)=5.33 *11*; α(L)=3.94 *8*; α(M)=0.993 *21* α(N)=0.241 *5*; α(O)=0.0377 *8*; α(P)=0.000689 *14* E$_\gamma$: Other: 82.46 *2* (1972McYW). I$_\gamma$: From 2021Kr02. Other: 61 *6* (1971Pr12). δ: from ce(L1):ce(L2):ce(L3) exp=47.4 *12*:96.5 *14*:88.3 *13*. Sign of δ is from Mossbauer oriented nuc (1983Be71). Other: 1967Wa20, Mossbauer.
85.161 *4*	0.75 *9*	624.080	(1/2$^+$)	538.9126	3/2$^+$	[M1,E2]		9.37 *35*	%Iγ=0.059 *11* α(K)=4 *4*; α(L)=3.8 *24*; α(M)=0.9 *6*

From ENSDF

$^{191}_{77}Ir_{114}$-3

γ(^{191}Ir) (continued)

E_γ [†]	I_γ [d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	δ [a]	α [bc]	Comments
									α(N)=0.23 *15*; α(O)=0.036 *23*; α(P)=6.E−4 *4* E_γ: Weighted average of 85.161 *4* (1995BuZZ) and 85.15 *8* (1971Pr12). I_γ: from 1971Pr12.
96.5517 *10*	39.4 *9*	178.9772	3/2+	82.4253	1/2+	M1+E2	+0.150 *16*	6.74 *9*	%Iγ=3.1 *5* α(K)=5.47 *8*; α(L)=0.975 *18*; α(M)=0.227 *5* α(N)=0.0556 *11*; α(O)=0.00973 *18*; α(P)=0.000681 *10* E_γ: Weighted average of 96.5517 *11* (2007La18), 96.552 *2* (1995BuZZ), 96.544 *15* (2021Kr02). Others: 96.517 *9* (1971Pr12), 96.56 *2* (1972McYW). I_γ: Weighted average of 37.9 *19* (1970Ma10), 42 *2* (1971Pr12), and 39.3 *12* (2021Kr02). δ: from ce(L1):ce(L2):ce(L3) exp=35.5 *5*:4.8 *3*:1.9 *2*. Sign of δ is from γ(θ) oriented nuc (1981La25). Other: δ=+0.10 *+8−18* γγ(θ) (1972Be01).
129.416 *16*	38.4 *17*	129.426	5/2+	0.0	3/2+	M1+E2	−0.400 *5*	2.75 *4*	%Iγ=3.0 *5* α(K)=2.149 *31*; α(L)=0.464 *7*; α(M)=0.1100 *16* α(N)=0.0269 *4*; α(O)=0.00459 *7*; α(P)=0.000264 *4* E_γ: Unweighted average of 129.400 *7* (1971Pr12) and 129.4320 *10* (2007La18). Other: 129.48 *2* (1972McYW). I_γ: weighted average of 38.1 *18* (1970Ma10) and 40 *4* (1971Pr12). δ: from adopted gammas. Others: δ=0.40 from ce(L1):ce(L2):ce(L3) exp=105:30:18 (1962Ha24), no uncertainty given, and δ=−0.44 *4* from γ(θ) oriented nuc (1981La25).
138.515 *20*	0.3 *2*	762.589	3/2+	624.080	(1/2+)	[M1,E2]		1.8 *6*	%Iγ=0.024 *16* α(K)=1.2 *8*; α(L)=0.49 *16*; α(M)=0.12 *5* α(N)=0.029 *11*; α(O)=0.0047 *15*; α(P)=1.4×10^{-4} *10* E_γ: Weighted average of 138.516 *13* (1995BuZZ) and 138.2 2 (1971Pr12). I_γ: from 1971Pr12.
140.884 *15*	0.94 *14*	799.804	(5/2)−	658.9196	(3/2−)	M1		2.301 *32*	%Iγ=0.074 *16* α(K)=1.898 *27*; α(L)=0.311 *4*; α(M)=0.0715 *10* α(N)=0.01759 *25*; α(O)=0.00311 *4*; α(P)=0.0002346 *33* I_γ: from 1971Pr12. Mult.,δ: from ce(K) exp=1.6 *4* (1971Pr12) yields α(K)exp=1.6 *4*. δ=0.4 *5* from ce data.
160	<0.02[@]	747.801	(5/2)+	587.975	3/2+,5/2+				%Iγ<0.00158 I_γ: from 1971Pr12.
172.2181 *25*	43.8 *8*	351.1921	5/2+	178.9772	3/2+	M1+E2	+0.072 *6*	1.301 *18*	%Iγ=3.5 *5*

From ENSDF

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir) (continued)

E_γ[†]	I_γ[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	δ[a]	α[bc]	Comments
									α(K)=1.072 *15*; α(L)=0.1761 *25*; α(M)=0.0406 *6* α(N)=0.00997 *14*; α(O)=0.001765 *25*; α(P)=0.0001322 *19* E_γ: Weighted average of 172.2171 *30* (2007La18), 172.221 *5* (1995BuZZ), 172.224 *10* (2021Kr02), and 172.19 *2* (1971Pr12). I_γ: Weighted average of 41.9 *20* (1970Ma10), 44 *2* (1971Pr12), and 44.1 *9* (2021Kr02). Mult.: from ce(K):ce(L1):ce(L2):ce(L3) exp=47.5 *8*:7.01 *11*:0.70 *5*:0.09 *3*. δ: from γ(θ) oriented nuc (1981La25). Other: from Ice data fit δ=0.07 *7*.
178.9796 *19*	12.74 *18*	178.9772	3/2$^+$	0.0	3/2$^+$	M1+E2	−0.75 *5*	0.932 *24*	%Iγ=1.01 *15* α(K)=0.699 *25*; α(L)=0.1772 *30*; α(M)=0.0426 *8* α(N)=0.01042 *19*; α(O)=0.001742 *28*; α(P)=8.43×10^{-5} *32* E_γ: Weighted average of 178.9791 *25* (2007La18), 178.980 *3* (1995BuZZ), 178.984 *10* (2021Kr02), and 178.96 *3* (1971Pr12). Other: 178.91 *5* (1972McYW). I_γ: Weighted average of 12.2 *6* (1970Ma10), 12.7 *6* (1971Pr12), and 12.8 *2* (2021Kr02). δ: from ce(K):ce(L1):ce(L2):ce(L3) exp=8.58 *19*:1.51 *9*:0.64 *6*:0.35 *5*. Sign of δ is from γγ(θ) (1972Be01) and γ(θ) oriented nuc (1981La25).
[x]186.8[‡]	<0.4[@]								%Iγ<0.0316 I_γ: from 1970Ma10. Other: 0.5 *3* (1966Bl03).
187.7208 *19*	4.99 *9*	538.9126	3/2$^+$	351.1921	5/2$^+$	M1+E2	0.50 *16*	0.91 *6*	%Iγ=0.39 *6* α(K)=0.72 *7*; α(L)=0.145 *4*; α(M)=0.0342 *14* α(N)=0.00837 *32*; α(O)=0.001437 *35*; α(P)=8.7×10^{-5} *9* E_γ: weighted average of 187.7200 *25* (2007La18), 187.721 *3* (1995BuZZ), 187.731 *10* (2021Kr02), and 187.69 *4* (1971Pr12), and 187.8 *1* (1972McYW). I_γ: weighted average of 5.2 *3* (1971Pr12), 5.0 *3* (1970Ma10), and 4.96 *10* (2021Kr02). δ: from ce(K):ce(L1):ce(L2) exp=3.77 *19*:0.91 *18*:0.31 *18*. Other: δ=+0.10 *3*, deduced by 1981La25 using its measured δ of 351γ on 1972Be01 γγ(θ).
196 *1*	0.04 *1*	538.9126	3/2$^+$	343.25	7/2$^+$	[E2]		0.370 *8*	%Iγ=0.0032 *9* α(K)=0.1788 *34*; α(L)=0.144 *4*; α(M)=0.0366 *10* α(N)=0.00886 *23*; α(O)=0.00138 *4*; α(P)=1.802×10^{-5} *34* I_γ: from 1971Pr12; seen only in γγ.
208.96 *15*	1.61 *10*	747.801	(5/2)$^+$	538.9126	3/2$^+$	M1		0.760 *11*	%Iγ=0.129 *21* α(K)=0.627 *9*; α(L)=0.1020 *14*; α(M)=0.02348 *33* α(N)=0.00577 *8*; α(O)=0.001023 *14*; α(P)=7.72×10^{-5} *11*

From ENSDF

$^{191}_{77}Ir_{114}$-5

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir) (continued)

E_γ [†]	I_γ [d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	δ [a]	α [bc]	Comments
									I_γ: weighted average of 1.6 *1* (1970Ma10) and 1.7 *3* (1971Pr12). Mult.,δ: from ce(K)=0.93 *16* (1971Ba45 normalized value) yields α(K)exp=0.57 *10*. δ=0.4 *6* from ce data.
214 *1*	0.11 *3*	343.25	7/2$^+$	129.426	5/2$^+$	M1+E2	−0.342 *7*	0.665 *13*	%Iγ=0.0087 *27* α(K)=0.541 *10*; α(L)=0.0959 *19*; α(M)=0.0223 *4* α(N)=0.00548 *11*; α(O)=0.000957 *19*; α(P)=6.62×10^{-5} *13*
									I_γ: from 1971Pr12; seen only in γγ. δ: from particle-γ(θ) in Coulomb excitation (2000Be07).
219.674 *5*	10.67 *18*	390.950	7/2$^-$	171.278	11/2$^-$	E2		0.2522 *35*	%Iγ=0.84 *13* α(K)=0.1335 *19*; α(L)=0.0897 *13*; α(M)=0.02266 *32* α(N)=0.00550 *8*; α(O)=0.000862 *12*; α(P)=1.366×10^{-5} *19*
									E_γ: Weighted average of 219.672 *5* (2007La18), 219.681 *10* (2021Kr02), 219.65 *5* (1971Pr12), and 219.68 *6* (1972McYW). I_γ: Weighted average of 10.9 *6* (1970Ma10), 10.3 *5* (1971Pr12), and 10.7 *2* (2021Kr02). Mult.: E2(+M1) from ce(K):ce(L1):ce(L2):ce(L3) exp= 1.70 *16*:0.25 *5*:0.39 *5*:0.41 *7* yields δ=4.2 3. ΔJ=2 from level scheme.
221.765 *4*	1.54 *11*	351.1921	5/2$^+$	129.426	5/2$^+$	(M1)		0.644 *9*	%Iγ=0.122 *20* α(K)=0.532 *7*; α(L)=0.0864 *12*; α(M)=0.01989 *28* α(N)=0.00489 *7*; α(O)=0.000866 *12*; α(P)=6.54×10^{-5} *9*
									E_γ: Weighted average of 221.762 *5* (2007La18), 221.769 *6* (1995BuZZ), 221.766 *12* (2021Kr02), and 221.74 *8* (1971Pr12). I_γ: Weighted average of 1.7 *2* (1970Ma10), 1.45 *15* (1971Pr12), and 1.51 *4* (2021Kr02). Mult.: ce(K)=1.05 *12* (1970Ma10 normalized value) yields α(K)exp=0.68 *9* gives δ=0.00 *22*.
223.672 *3*	1.40 *10*	762.589	3/2$^+$	538.9126	3/2$^+$	M1		0.629 *9*	%Iγ=0.111 *18* α(K)=0.519 *7*; α(L)=0.0844 *12*; α(M)=0.01942 *27* α(N)=0.00477 *7*; α(O)=0.000846 *12*; α(P)=6.39×10^{-5} *9*
									E_γ: Weighted average of 223.6717 *32* (2007La18), 223.677 *9* (1995BuZZ), 223.663 *13* (2021Kr02), and 223.67 *8* (1971Pr12). I_γ: Weighted average of 1.3 *2* (1970Ma10), 1.40 *15* (1971Pr12), and 1.50 *21* (2021Kr02). Mult.,δ: from ce(K):ce(L1):ce(L2):ce(L3) exp=0.73 *6*:0.05 *4*: <0.03: <0.03. Ice data fit gives δ=0.23 *26*.
245 *1*	0.04 *1*	587.975	3/2$^+$,5/2$^+$	343.25	7/2$^+$	[M1,E2]		0.33 *16*	%Iγ=0.0032 *9* α(K)=0.25 *15*; α(L)=0.062 *4*; α(M)=0.0148 *4*

From ENSDF

$^{191}_{77}Ir_{114}$-6

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir) (continued)

E_γ [†]	I_γ [d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	δ [a]	α [bc]	Comments
									α(N)=0.00361 *12*; α(O)=0.00061 *5*; α(P)=3.0×10^{-5} *20*
									I_γ: from 1971Pr12; seen only in γγ.
267.978 *10*	10.0 *1*	658.9196	(3/2$^-$)	390.950	7/2$^-$	E2		0.1336 *19*	%Iγ=0.79 *12*
									α(K)=0.0800 *11*; α(L)=0.0405 *6*; α(M)=0.01015 *14*
									α(N)=0.002465 *35*; α(O)=0.000391 *5*; α(P)=8.45×10^{-6} *12*
									E_γ: Weighted average of 267.979 *10* (2021Kr02) and 267.92 *8* (1971Pr12).
									I_γ: weighted average of 9.7 *10* (1971Pr12) and 10.0 *1* (2021Kr02). Other: Iγ(267.92)+Iγ(268.71)=32.4 *20* (1970Sc20), 33.0 *17* (1970Ma10); Iγ(268.7)/Iγ(267.9)=2.7 *5* (1970Ma10).
									Mult.: E2+(M1) from ce(K):ce(L1):ce(L2):ce(L3) exp= 0.95 *6*:0.31 *15*:0.27 *15*:0.16 *6*. Ice data fit gives δ=3.16 *14*.
268.772 *5*	21.0 *3*	351.1921	5/2$^+$	82.4253	1/2$^+$	E2		0.1324 *19*	%Iγ=1.66 *25*
									α(K)=0.0794 *11*; α(L)=0.0401 *6*; α(M)=0.01003 *14*
									α(N)=0.002436 *34*; α(O)=0.000387 *5*; α(P)=8.39×10^{-6} *12*
									E_γ: Weighted average of 268.773 *5* (1995BuZZ), 268.767 *12* (2021Kr02), and 268.71 *8* (1971Pr12).
									I_γ: weighted average of 20.6 *20* (1971Pr12) and 21.0 *3* (2021Kr02). Others: see comment on Iγ for 267.92γ,
									Mult.: E2(+M1) from ce(K):ce(L1):ce(L2):ce(L3) exp= 1.78 *14*: 0.27 *15*:0.39 *6*:0.15 *6*. Ice data fit gives δ=4.3 *2*.
^{x}272.0[#]	<0.3[@]								%Iγ<0.0237
									I_γ: from 1970Ma10.
308	<0.08[@]	658.9196	(3/2$^-$)	351.1921	5/2$^+$				%Iγ<0.00633
									E_γ,I_γ: As listed in 1971Pr12.
343.22 *8*	0.148 *27*	343.25	7/2$^+$	0.0	3/2$^+$	(E2)		0.0641 *9*	%Iγ=0.0117 *28*
									α(K)=0.0429 *6*; α(L)=0.01609 *23*; α(M)=0.00398 *6*
									α(N)=0.000967 *14*; α(O)=0.0001561 *22*; α(P)=4.70×10^{-6} *7*
									E_γ: From 2021Kr02. Other: 343.2 *4* (1971Pr12).
									I_γ: 0.16 *5* (1971Pr12) and 0.143 32 (2021Kr02).
									Mult.: from Coulomb excitation.
351.187 *3*	44.5 *5*	351.1921	5/2$^+$	0.0	3/2$^+$	M1+E2	−0.30 *2*	0.1734 *27*	%Iγ=3.5 *5*
									α(K)=0.1428 *23*; α(L)=0.02363 *35*; α(M)=0.00545 *8*
									α(N)=0.001340 *19*; α(O)=0.0002364 *35*; α(P)=1.737×10^{-5} *28*
									E_γ: Weighted average of 351.1851 *20* (2007La18), 351.201 *6* (1995BuZZ), 351.185 *10* (2021Kr02), 351.17 *3* (1971Pr12). Other: 351.24 *3* (1972McYW).
									I_γ: Weighted average of 43.5 *21* (1970Ma10), 42 *5* (1971Pr12), and 44.7 *5* (2021Kr02).
									Mult.: from ce(K):ce(L1):ce(L2):ce(L3) exp=6.76 *15*:1.11 *8*: <0.1:

From ENSDF

$^{191}_{77}Ir_{114}$-7

γ(^{191}Ir) (continued)

E_γ †	I_γ d	E_i(level)	J_i^π	E_f	J_f^π	Mult.&	δ a	α bc	Comments
									<0.03. δ: from γ(θ) oriented nuc (1981La25).
359.930 *3*	74.2 *7*	538.9126	3/2+	178.9772	3/2+	M1		0.1719 *24*	%Iγ=5.9 *9* α(K)=0.1423 *20*; α(L)=0.02285 *32*; α(M)=0.00525 *7* α(N)=0.001291 *18*; α(O)=0.0002289 *32*; α(P)=1.735×10^{-5} *24* E_γ: Weighted average of 359.9282 *21* (2007La18), 359.942 *6* (1995BuZZ), 359.934 *10* (2021Kr02), and 359.88 *3* (1971Pr12). Other: 359.94 *3* (1972McYW). I_γ: Weighted average of 73.1 *37* (1970Ma10), 75 *4* (1971Pr12), 74.7 *8* (2021Kr02), and 71.2 *20* (1970Sc20). Mult.,α: ce(K):ce(L1):ce(L2):ce(L3) exp=12.9 *3*:1.86 *5*:0.10 *3*: <0.03, outlier in Ice data fit: α(K) and α(L1) exp:theory=0.172 *2*:0.142 *2* and 18.6 *56*:11.0 *2*, respectively. δ: from γ(θ) oriented nuc (1981La25). Other values: +0.14 *2* γ(θ) (1973Il02); +0.08 *+6−7* (1976Kr21 evaluation of 1972Be01 γγ(θ)); +0.08 *+8−7* γ(θ) (1980Be27).
396.75 *7*	0.150 *19*	747.801	(5/2)+	351.1921	5/2+	[M1,E2]		0.09 *4*	%Iγ=0.0119 *23* α(K)=0.07 *4*; α(L)=0.014 *4*; α(M)=0.0032 *8* α(N)=7.9×10^{-4} *21*; α(O)=1.4×10^{-4} *4*; α(P)=8.E−6 *5* E_γ: Weighted average of 396.75 *7* (2021Kr02) and 396.7 *2* (1971Pr12). I_γ: weighted average of 0.13 *4* (1971Pr12) and 0.155 *21* (2021Kr02).
404.1 *3*	0.14 *7*	747.801	(5/2)+	343.25	7/2+				%Iγ=0.011 *6* I_γ: from 1971Pr12.
409 *1*	1.2 *2*	799.804	(5/2)−	390.950	7/2−				%Iγ=0.095 *21* I_γ: from 1971Pr12; seen only in γγ.
409.462 *11*	100 *1*	538.9126	3/2+	129.426	5/2+	M1+E2	+0.23 *12*	0.118 *5*	%Iγ=7.9 *12* α(K)=0.097 *5*; α(L)=0.0158 *5*; α(M)=0.00363 *11* α(N)=0.000892 *26*; α(O)=0.000158 *5*; α(P)=1.18×10^{-5} *6* E_γ: Unweighted average of 409.464 *5* (2007La18), 409.490 *6* (1995BuZZ), 409.453 *10* (2021Kr02), and 409.44 *2* (1971Pr12). Other: 409.47 *3* (1972McYW). I_γ: From 2021Kr02. Other: 100 *5* (1971Pr12). Mult.: from ce(K):ce(L1):ce(L2):ce(L3) exp=11.23 *15*:1.87 *12*:0.19 *9*: <0.04. Ice data fit gives 0 *7* % E2. δ: from 1976Kr21 evaluation, using γγ(θ) of 1972Be01, 1969Ow02, and 1973Il02.
411.398 *9*	0.12 *3*	762.589	3/2+	351.1921	5/2+	[M1,E2]		0.08 *4*	%Iγ=0.0095 *28* α(K)=0.06 *4*; α(L)=0.012 *4*; α(M)=0.0029 *8* α(N)=7.1×10^{-4} *19*; α(O)=1.2×10^{-4} *4*; α(P)=8.E−6 *5*

From ENSDF

$^{191}_{77}Ir_{114}$-8

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir) (continued)

E_γ [†]	I_γ [d]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [&]	δ [a]	α [bc]	Comments
445.109 *7*	0.75 *2*	624.080	(1/2$^+$)	178.9772	3/2$^+$	[M1,E2]		0.065 *33*	E_γ: From 1995BuZZ. Other: 411 (1971Pr12). I_γ: from 1971Pr12; seen only in γγ. %Iγ=0.059 *9* α(K)=0.052 *29*; α(L)=0.0098 *31*; α(M)=0.0023 *7* α(N)=5.6×10^{-4} *17*; α(O)=9.7×10^{-5} *32*; α(P)=6.E−6 *4* E_γ: Weighted average of 445.111 *8* (2007La18), 445.102 *7* (1995BuZZ), 445.144 *18* (2021Kr02), and 445.13 *8* (1971Pr12). I_γ: Weighted average of 0.82 *8* (1970Ma10), 0.68 *7* (1971Pr12), 0.75 *2* (2021Kr02), and 0.7 *1* (1970Sc20).
448	<0.08 [@]	799.804	(5/2)$^-$	351.1921	5/2$^+$				%Iγ<0.00633 E_γ,I_γ: As listed in 1971Pr12.
456.485 *7*	44.2 *4*	538.9126	3/2$^+$	82.4253	1/2$^+$	M1+E2	−0.32 *4*	0.0856 *18*	%Iγ=3.5 *5* α(K)=0.0707 *15*; α(L)=0.01152 *21*; α(M)=0.00265 *5* α(N)=0.000652 *11*; α(O)=0.0001152 *21*; α(P)=8.56×10^{-6} *19* E_γ: Unweighted average of 456.4753 *11* (2007La18), 456.493 *6* (1995BuZZ), 456.500 *10* (2021Kr02), and 456.47 *5* (1971Pr12). Other: 456.51 *3* (1972McYW). I_γ: from 2021Kr02. Others: 42 *2* (1971Pr12), 42.9 *20* (1970Ma10) and 42.3 *20* (1970Sc20). Mult.: from ce(K):ce(L1) exp=2.93 *9*:0.36 *9*. δ: from γ(θ) oriented nuc (1981La25). Other: δ=0.34 *24* from Ice data fit.
458.546 *20*	0.72 *6*	587.975	3/2$^+$,5/2$^+$	129.426	5/2$^+$	[M1,E2]		0.060 *30*	%Iγ=0.057 *10* α(K)=0.048 *27*; α(L)=0.0090 *29*; α(M)=0.0021 *6* α(N)=5.2×10^{-4} *16*; α(O)=8.9×10^{-5} *30*; α(P)=5.7×10^{-6} *33* E_γ: Weighted average of 458.59 *15* (1971Pr12) and 458.545 *20* (2021Kr02). I_γ: weighted average of 0.54 *10* (1971Pr12) and 0.74 3 (2021Kr02).
479.9417 *7*	0.66 *2*	658.9196	(3/2$^-$)	178.9772	3/2$^+$	[E1]		0.00869 *12*	%Iγ=0.052 *8* α(K)=0.00725 *10*; α(L)=0.001111 *16*; α(M)=0.000254 *4* α(N)=6.19×10^{-5} *9*; α(O)=1.079×10^{-5} *15*; α(P)=7.47×10^{-7} *10* E_γ: Weighted average of 479.9416 *7* (2007La18), 479.955 10 (2021Kr02), and 479.95 *7* (1971Pr12). I_γ: Weighted average of 0.61 *7* (1970Ma10), 0.71 *7* (1971Pr12), 0.65 *2* (2021Kr02), and 0.72 *5* (1970Sc20).
494.675 *9*	0.75 *2*	624.080	(1/2$^+$)	129.426	5/2$^+$	(E2)		0.02438 *34*	%Iγ=0.059 *9* α(K)=0.01812 *25*; α(L)=0.00478 *7*; α(M)=0.001154 *16*

From ENSDF

$^{191}_{77}Ir_{114}$-9

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir) (continued)

E_γ [†]	I_γ [d]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [&]	δ [a]	α [bc]	Comments
									α(N)=0.000282 *4*; α(O)=4.67×10^{-5} *7*; α(P)=2.046×10^{-6} *29* E_γ: Weighted average of 494.671 *6* (2007La18), 494.650 *7* (1995BuZZ), 494.689 *10* (2021Kr02), and 494.69 *7* (1971Pr12). I_γ: weighted average of 0.75 *7* (1971Pr12), 0.76 *8* (1970Ma10), and 0.75 *2* (2021Kr02). Mult.: (M1,E2) from ce(K)=0.031 *10* (1971Ba45 normalized value). Ice data fit gives δ=1.0 *5*. Decay scheme requires E2.
538.897 *11*	182 *2*	538.9126	3/2$^+$	0.0	3/2$^+$	M1+E2	−0.68 *2*	0.0467 *8*	%Iγ=14.4 *22* α(K)=0.0383 *7*; α(L)=0.00649 *10*; α(M)=0.001502 *24* α(N)=0.000369 *6*; α(O)=6.47×10^{-5} *11*; α(P)=4.59×10^{-6} *8* E_γ: Unweighted average of 538.9038 *23* (2007La18), 538.921 *6* (1995BuZZ), 538.892 *10* (2021Kr02), and 538.87 *5* (1971Pr12). Other: 538.92 *3* (1972McYW). I_γ: Weighted average of 186 *8* (1970Ma10), 171 *9* (1971Pr12), 183 *2* (2021Kr02), and 179 *8* (1970Sc20). Mult.: from ce(K):ce(L1):ce(L2):ce(L3) exp=7.34 *19*:1.15 *9*: <0.12: <0.12. δ: from γ(θ) oriented nuc (1981La25). Other values: δ=0.84 *+21−18* γ(θ) (1980Be27); δ=0.60 *7* from Ice data fit.
541.664 *17*	5.42 *8*	624.080	(1/2$^+$)	82.4253	1/2$^+$	(M1)		0.0583 *8*	%Iγ=0.43 *6* α(K)=0.0484 *7*; α(L)=0.00767 *11*; α(M)=0.001762 *25* α(N)=0.000433 *6*; α(O)=7.68×10^{-5} *11*; α(P)=5.85×10^{-6} *8* E_γ: Unweighted average of 1.654 *7* (1995BuZZ), 541.698 *10* (2021Kr02), and 541.64 *10* (1971Pr12). I_γ: weighted average of 4.6 *5* (1971Pr12) and 5.43 *5* (2021Kr02). Mult.: from ce(K) exp=0.21 *5*. Ice data fit gives δ=0.0 *6*.
568.850 *10*	0.71 *2*	747.801	(5/2)$^+$	178.9772	3/2$^+$	(M1)		0.0513 *7*	%Iγ=0.056 *9* α(K)=0.0426 *6*; α(L)=0.00675 *9*; α(M)=0.001549 *22* α(N)=0.000381 *5*; α(O)=6.75×10^{-5} *9*; α(P)=5.14×10^{-6} *7* E_γ: Weighted average of 568.809 *17* (2021Kr02), 568.81 *8* (1971Pr12), and 568.855 *6* (2007La18). I_γ: weighted average of 0.68 *4* (1970Ma10) and 0.66 *5* (1971Pr12), and 0.72 *2* (2021Kr02). Mult.: from ce(K) exp=0.033 *6* (1971Ba45 normalized value). Ice data fit gives δ=0.0 *3*.
576.492 *18*	1.57 *2*	658.9196	(3/2$^-$)	82.4253	1/2$^+$	E1		0.00591 *8*	%Iγ=0.124 *19* α(K)=0.00494 *7*; α(L)=0.000746 *10*; α(M)=0.0001700 *24* α(N)=4.16×10^{-5} *6*; α(O)=7.26×10^{-6} *10*; α(P)=5.14×10^{-7} *7* E_γ: unweighted average of 576.4930 *35* (2007La18), 576.523 *10* (2021Kr02), and 576.46 *8* (1971Pr12).

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir) (continued)

E_γ[†]	I_γ[d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	δ[a]	α[bc]	Comments
									I_γ: Weighted average of 1.6 *2* (1970Ma10), 1.47 *11* (1971Pr12), 1.57 *2* (2021Kr02), and 1.59 *7* (1970Sc20). Mult.: from ce(K) exp=0.013 *4* yields α(K)exp=0.008 *3*; decay scheme requires parity change and α(K): E1=0.0049; M2=0.142.
583.621 *7*	0.96 *3*	762.589	$3/2^+$	178.9772	$3/2^+$	(M1)		0.0480 *7*	%Iγ=0.076 *12* α(K)=0.0399 *6*; α(L)=0.00631 *9*; α(M)=0.001447 *20* α(N)=0.000356 *5*; α(O)=6.31×10^{-5} *9*; α(P)=4.81×10^{-6} *7* E_γ: Weighted average of 583.617 *6* (2007La18), 583.618 *11* (1995BuZZ), 583.660 *16* (2021Kr02), and 583.61 *8* (1971Pr12). I_γ: weighted average of 0.95 *7* (1971Pr12) and 0.96 *3* (2021Kr02). and 0.93 *8* (1970Sc20). Other: 1.39 *10* (1970Ma10) − γ line was not well resolved from 587.95γ. Mult.: ce(K)=0.036 *8* (1971Ba45 after normalization). Ice data fit gives δ=0.0 *8*.
587.98 *3*	1.88 *5*	587.975	$3/2^+$,$5/2^+$	0.0	$3/2^+$	(M1)		0.0471 *7*	%Iγ=0.149 *23* α(K)=0.0391 *5*; α(L)=0.00619 *9*; α(M)=0.001419 *20* α(N)=0.000349 *5*; α(O)=6.19×10^{-5} *9*; α(P)=4.72×10^{-6} *7* E_γ: Unweighted average of 588.007 *24* (2021Kr02) and 587.95 *8* (1971Pr12). I_γ: weighted average of 1.70 *13* (1971Pr12), 1.92 *10* (1970Ma10), 1.92 *8* (1970Sc20), and 1.88 *15* (2021Kr02). Mult.: ce(K)=0.085 *12* (1971Ba45 after normalization). Ice data fit gives δ=0.0 *4*.
618.48 *7*	0.104 *18*	747.801	$(5/2)^+$	129.426	$5/2^+$	[M1,E2]		0.028 *13*	%Iγ=0.0082 *19* α(K)=0.023 *12*; α(L)=0.0040 *15*; α(M)=9.2×10^{-4} *33* α(N)=2.3×10^{-4} *8*; α(O)=3.9×10^{-5} *15*; α(P)=2.7×10^{-6} *14* E_γ: Weighted average of 618.47 *7* (2021Kr02) and 618.7 *4* (1971Pr12). I_γ: weighted average of 0.11 *4* (1971Pr12) and 0.103 11 (2021Kr02).
624.086 *17*	19.0 *2*	624.080	$(1/2^+)$	0.0	$3/2^+$	(M1+E2)	0.40 *22*	0.037 *4*	%Iγ=1.50 *23* α(K)=0.0304 *32*; α(L)=0.0049 *4*; α(M)=0.00113 *9* α(N)=0.000277 *22*; α(O)=4.9×10^{-5} *4*; α(P)=3.7×10^{-6} *4* E_γ: unweighted average of 624.082 *7* (1995BuZZ), 624.117 10 (2021Kr02), and 624.06 *6* (1971Pr12). Other: 624.14 *5* (1972McYW). I_γ: weighted average of 20.5 *15* (1970Ma10), 17.6 *9* (1971Pr12), 19.1 *2* (2021Kr02), and 18.4 *10* (1970Sc20). Mult.,δ: from ce(K) exp=0.59 *5*. Ice data fit gives δ=0.35 *22*.
633.186 *14*	0.348 *13*	762.589	$3/2^+$	129.426	$5/2^+$	E2(+M1)	2.3 *6*	0.0177 *25*	%Iγ=0.028 *4* α(K)=0.0140 *21*; α(L)=0.00277 *27*; α(M)=0.00065 *6*

From ENSDF

$^{191}_{77}Ir_{114}$-11

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir) (continued)

E_γ [†]	I_γ [d]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[&]	α[bc]	Comments
								α(N)=0.000160 *15*; α(O)=2.74×10^{-5} *28*; α(P)=1.63×10^{-6} *26* E_γ: Unweighted average of 633.166 *11* (1995BuZZ), 633.213 *11* (2021Kr02), and 633.18 *10* (1971Pr12). I_γ: Weighted average of 0.37 *4* (1970Ma10), 0.30 *3* (1971Pr12), 0.336 *16* (2021Kr02), 0.38 *2* (1970Sc20), and 0.36 *5* (1966Bl03). Mult.: from ce(K) exp=0.0049 *16* (1971Ba45 normalized value). Ice data fit gives δ=2.3 *6*.
658.76 *6*	0.213 *16*	658.9196	(3/2$^-$)	0.0	3/2$^+$	[E1]	0.00450 *6*	%Iγ=0.0168 *28* α(K)=0.00377 *5*; α(L)=0.000564 *8*; α(M)=0.0001285 *18* α(N)=3.14×10^{-5} *4*; α(O)=5.51×10^{-6} *8*; α(P)=3.95×10^{-7} *6* E_γ: Weighted average of 658.76 *6* (2021Kr02) and 658.75 *15* (1971Pr12). I_γ: Weighted average of 0.20 *4* (1970Ma10), 0.19 *2* (1971Pr12), 0.254 *23* (2021Kr02), and 0.20 *3* (1970Sc20).
680.24 *16*	0.085 *8*	762.589	3/2$^+$	82.4253	1/2$^+$	[M1,E2]	0.022 *10*	%Iγ=0.0067 *12* α(K)=0.018 *9*; α(L)=0.0031 *12*; α(M)=7.1×10^{-4} *26* α(N)=1.7×10^{-4} *6*; α(O)=3.1×10^{-5} *12*; α(P)=2.1×10^{-6} *11* E_γ: Unweighted average of 680.170 *11* (1995BuZZ), 680.54 12 (2021Kr02), and 680.0 *2* (1971Pr12). I_γ: Weighted average of 0.09 *7* (1970Ma10), 0.086 *17* (1971Pr12), 0.066 *11* (2021Kr02), 0.10 *1* (1970Sc20), and 0.09 *7* (1966Bl03).
686.6 *5*	0.010 *4*	686.6	7/2$^+$	0.0	3/2$^+$	E2	0.01139 *16*	%Iγ=0.00079 *34* α(K)=0.00894 *13*; α(L)=0.001878 *27*; α(M)=0.000445 *6* α(N)=0.0001088 *15*; α(O)=1.847×10^{-5} *26*; α(P)=1.018×10^{-6} *14* E_γ,I_γ: From 1970Sc20; placement by evaluator. Mult.: from adopted gammas.
747.76 *15*	0.046 *4*	747.801	(5/2)$^+$	0.0	3/2$^+$	[M1,E2]	0.017 *8*	%Iγ=0.0036 *6* α(K)=0.014 *7*; α(L)=0.0024 *9*; α(M)=5.6×10^{-4} *20* α(N)=1.4×10^{-4} *5*; α(O)=2.4×10^{-5} *9*; α(P)=1.7×10^{-6} *8* E_γ: Weighted average of 747.67 *12* (2021Kr02) and 748.0 *2* (1971Pr12). I_γ: Weighted average of 0.045 *10* (1970Ma10), 0.052 *10* (1971Pr12), 0.063 *11* (2021Kr02), and 0.042 *5* (1970Sc20).
756.5 *4*	0.019 *5*	935.71	(1/2$^+$,3/2,5/2$^+$)	178.9772	3/2$^+$			%Iγ=0.0015 *5* E_γ,I_γ: Weighted average of Eγ = 756.6 5 and 756.2 8; and Iγ=0.020 and 0.015 *10*, from 1970Sc20 and 1970Ma10, respectively.
762.74 *6*	0.171 *9*	762.589	3/2$^+$	0.0	3/2$^+$	[M1,E2]	0.017 *8*	%Iγ=0.0135 *21* α(K)=0.014 *6*; α(L)=0.0023 *9*; α(M)=5.3×10^{-4} *19* α(N)=1.3×10^{-4} *5*; α(O)=2.3×10^{-5} *9*; α(P)=1.6×10^{-6} *8* E_γ: Weighted average of 762.76 *6* (2021Kr02) and 762.60 *15*

From ENSDF

$^{191}_{77}Ir_{114}$-12

^{191}Pt ε decay 1971Pr12,1970Ma10 (continued)

γ(^{191}Ir) (continued)

E_γ [†]	I_γ [d]	E_i(level)	J_i^π	E_f	J_f^π	Comments
						(1971Pr12).
						I_γ: Weighted average of 0.17 *2* (1970Ma10), 0.15 *2* (1971Pr12), 0.190 *16* (2021Kr02), 0.16 *2* (1970Sc20), and 0.23 *8* (1966Bl03).
806.4 *3*	0.049 *5*	935.71	(1/2$^+$,3/2,5/2$^+$)	129.426	5/2$^+$	%Iγ=0.0039 *7*
						I_γ: weighted average of 0.045 *10* (1970Ma10), 0.047 *9* (1971Pr12), and 0.054 *9* (1970Sc20).
853.5 *4*	0.0132 *10*	935.71	(1/2$^+$,3/2,5/2$^+$)	82.4253	1/2$^+$	%Iγ=0.00104 *18*
						E_γ,I_γ: Weighted average of Eγ = 853.6 *4* and 853.2 *10*; Iγ=0.013 *1* and 0.015 *10*, from 1970Sc20 and 1970Ma10, respectively.
935.61 *27*	0.149 *7*	935.71	(1/2$^+$,3/2,5/2$^+$)	0.0	3/2$^+$	%Iγ=0.0118 *18*
						E_γ: Unweighted average of 935.88 *8* (2021Kr02) and 935.33 *15* (1971Pr12).
						I_γ: Weighted average of 0.16 *2* (1970Ma10), 0.15 *2* (1971Pr12), 0.162 *13* (2021Kr02), 0.14 *1* (1970Sc20), and 0.14 *2* (1967Sc25).

[†] From 1971Pr12, unless otherwise noted.
[‡] From 1962Ma18.
[#] From 1962Ha24.
[@] Unobserved γ ray.
[&] From ce data.
[a] Unless otherwise specified, δ values were calculated by BrIcc code using the Ice data.
[b] α(exp): values can be calculated as N×Ice/Iγ, with N=0.955 *18*, using Ice and Iγ in the relative scales given in the table; N determined from δ fitting procedure (see footnote on δ).
[c] Additional information 1.
[d] For absolute intensity per 100 decays, multiply by 0.079 *12*.
[x] γ ray not placed in level scheme.

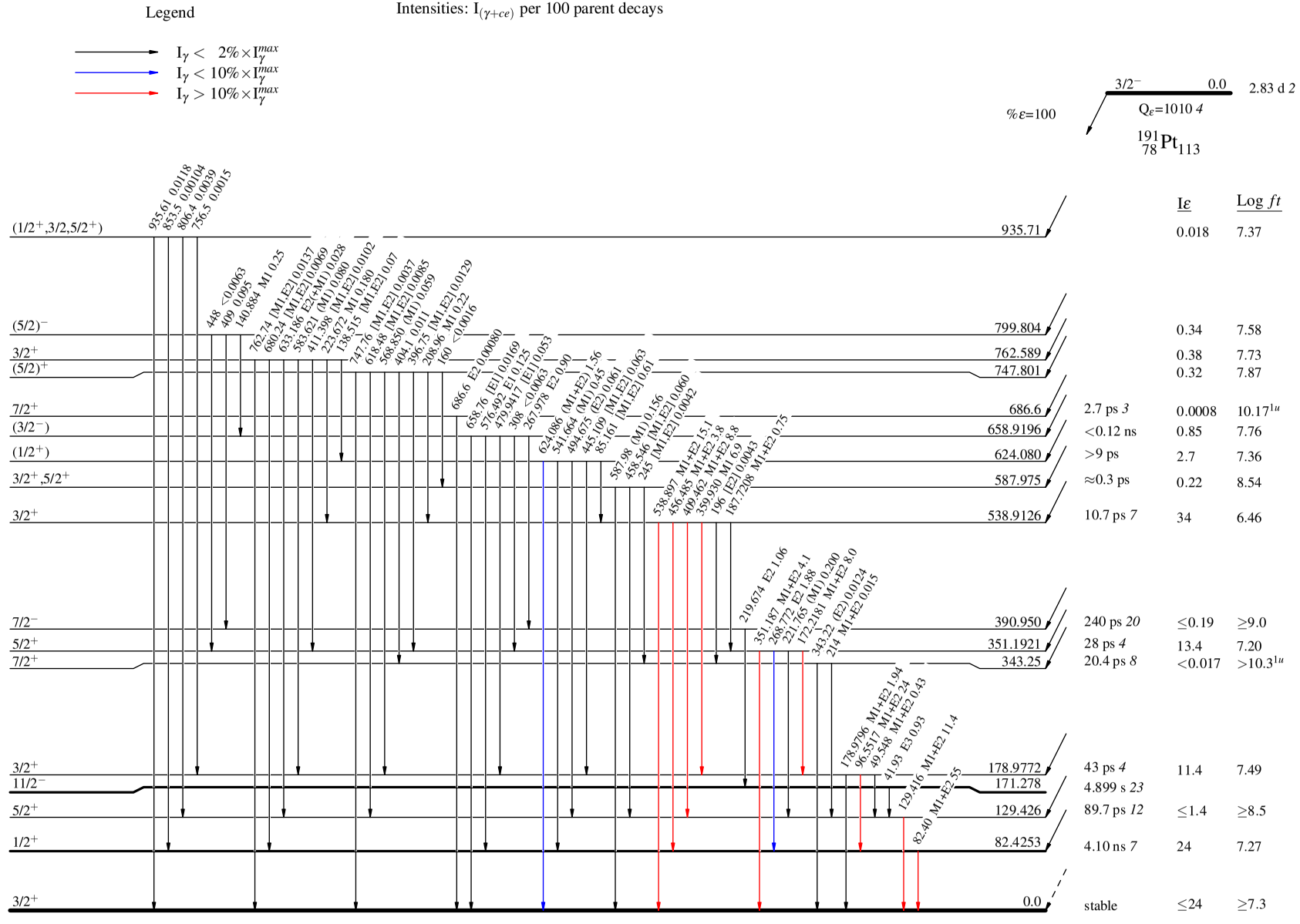
From ENSDF

$^{191}_{77}Ir_{114}$-13

^{191}Pt ε decay 1971Pr12,1970Ma10

Decay Scheme

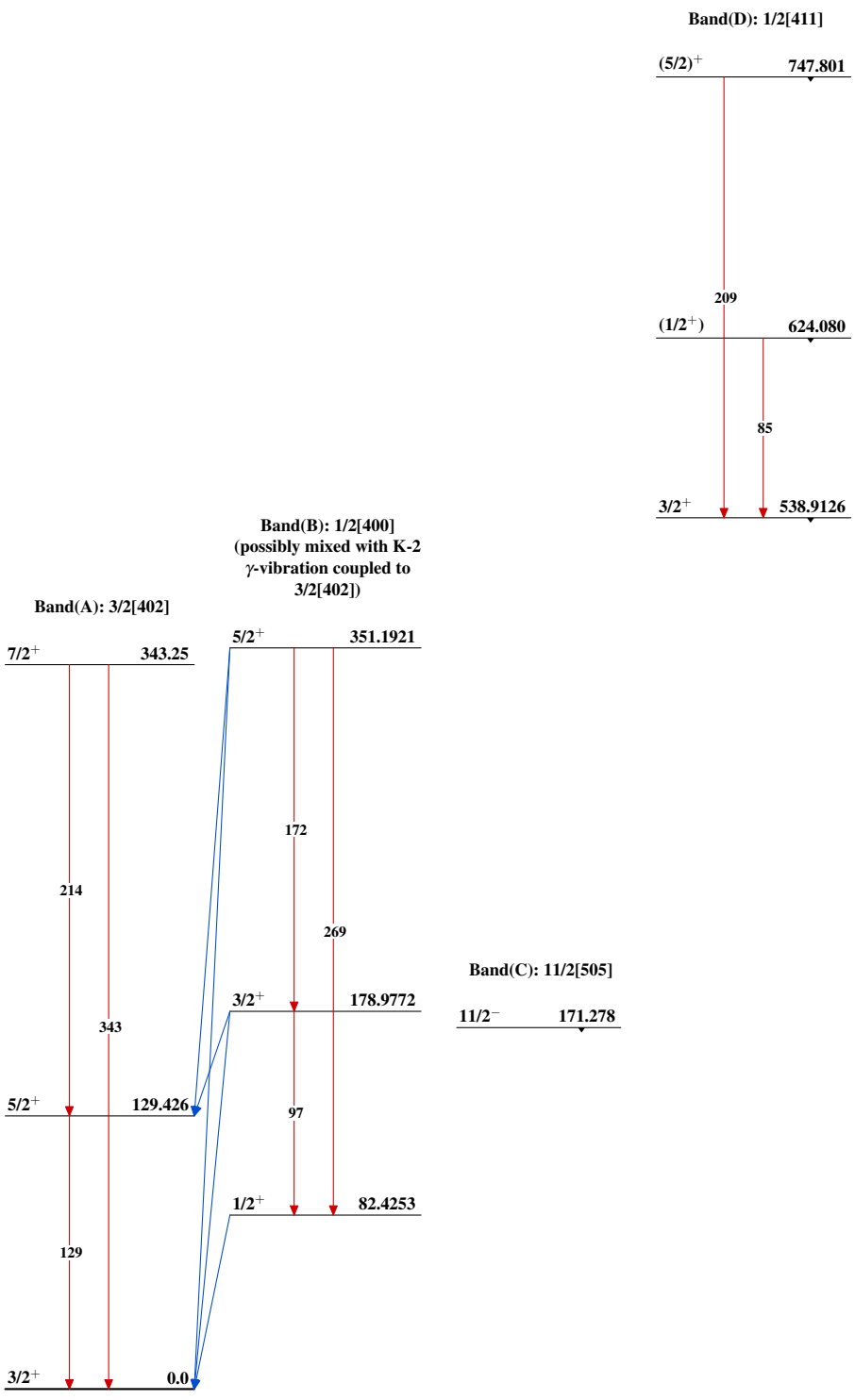
Intensities: $I_{(\gamma+ce)}$ per 100 parent decays



From ENSDF

$^{191}_{77}Ir_{114}$-14

^{191}Pt ε decay 1971Pr12,1970Ma10



$^{191}_{77}Ir_{114}$