History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev	NDS 124, 157 (2015)	1-Aug-2014

 $Q(\beta^{-})=262\ 7;\ S(n)=8407\ 7;\ S(p)=11306\ 9;\ Q(\alpha)=-5087\ 11$ 2012Wa38

¹¹²Pd Levels

Cross Reference (XREF) Flags

			B 11	12 Rh β^{-} decay (3.6 s) D 110 Pd(t,p) 12 Rh β^{-} decay (6.76 s) E 110 Pd(t,p γ) 12 Cf SF decay F 208 Pb(18 O,X γ)								
E(level) [†]	$J^{\pi \ddagger}$	T _{1/2}	XREF	Comments								
0.0#	0+	21.04 h <i>17</i>	ABCDEF	$\%\beta^{-}=100$								
				$T_{1/2}$: Weighted average of 21.045 h +29-65 (1977Gi11), 21.12 h 8 (1974Ro18), 20.12 h 6 (1971Ba28), 21.0 h 5 (1959Gi66) and 21.02 h 2 (1957Me49).								
348.66 [#] <i>13</i>	2+	84 ps 14	ABCDEF	XREF: D(351).								
				 J^π: L=2 in ¹¹⁰Pd(t,p) (1972Ca10); 348.7γ to 0⁺. T_{1/2}: from recoil-distance Doppler-shift method in ²⁵²Cf SF decay (1986Ma22) Other: <1 ns from ²⁵²Cf SF decay (1970Ch11); Also: T_{1/2} might be overestimated according to B(E2) systematics in 2011Ki17. 								
736.72 [@] 14	2+		ABCDEF	J^{π} : 388.0 γ E2(+M1) to 2 ⁺ and 736.7 γ (E2) to 0 ⁺ ; systematics of the second 2 ⁺ states; Other: (4 ⁺) from L(t,p)=(4) in ¹¹⁰ Pd(t,p) (1972Ca10).								
882.96 [#] <i>16</i>	4+		ABCDEF	XREF: D(882).								
022.7.7	1,2+		DE	J^{π} : 534.3 γ E2 to 2 ⁺ ; band member; Other: (2 ⁺) from L=(2) in ¹¹⁰ Pd(t,p) (1972Ca10). XREF: D(928).								
923.7 7	1,2		DE	J^{π} : 924.4 γ to 2 ⁺ , 574.4 γ to 0 ⁺ .								
1096.27 [@] 16	3 ⁺		ABC EF	J^{π} : 359.6y E2(+M1) to 2 ⁺ , 213.3y to 4 ⁺ ; band member.								
1125.48 ^d 21	0^{+}		A DE	XREF: D(1123).								
				J^{π} : L=0 in ¹¹⁰ Pd(t,p); 1125.3 γ E0 to 0 ⁺ .								
1139.83 21	$(0,1,2)^+$		A	J^{π} : 791.2 γ E2 to 2 ⁺ ; Direct feeding from $J\pi = (1^+)$ in 112 Rh β^- decay (3.6 s).								
1362.37 [@] 17	(4 ⁺)		BC EF	J^{π} : 625.7 γ to 2 ⁺ , 479.4 γ to 4 ⁺ ; band member.								
1402.64 <i>17</i>	2+		Α	J^{π} : 519.8 γ to 4 ⁺ , 1402.6 γ to 0 ⁺ .								
1422.68 ^d 15	2+		AB F	J^{π} : 539.7 γ to 4 ⁺ , 1422.6 γ to 0 ⁺ ; band member.								
1550.47 [#] 19	6 ⁺		BC EF	J^{π} : 667.3 γ E2 to 4 ⁺ ; band member.								
1714.87 <i>17</i>	(3,4+)		BC F	J^{π} : 978.2 γ to 2 ⁺ and 831.9 γ to 4 ⁺ ; near-yrast state populated in ²⁵² Cf SF decay (1999Bu32); not observed in ¹¹² Rh β^- decay (3.6 s), (1 ⁺) (1999Lh01).								
1747.5? 5	$(1,2^+)$		A	J^{π} : 1398.8 γ to 2 ⁺ ; observation in ¹¹² Rh β ⁻ decay (3.6 s), $J\pi$ =(1 ⁺).								
1758.97 [@] 19	(5 ⁺)		BC F	J^{π} : 662.7 γ to 3 ⁺ , 876.0 γ to 4 ⁺ ; no observation γ rays to 2 ⁺ states; observation in ¹¹² Rh β ⁻ decay (3.76 s), J_{π} =(6 ⁺); band member.								
1774.4? 5	$(1,2^+)$		Α	J^{π} : 1425.7 γ to 2 ⁺ ; observation in ¹¹² Rh β ⁻ decay (3.6 s), $J\pi$ =(1 ⁺).								
1887.4 ^d 3	(4 ⁺)		B F	XREF: F(1886.4). J^{π} : 464.7 γ to 2 ⁺ , 791.1 γ M1+E2 to 3 ⁺ , a tentative 1004.7 γ to 4 ⁺ ; observation in ¹¹² Rh β ⁻ decay (3.76 s), $J\pi$ =(6 ⁺); band member.								
1951.6 4	(3,4+)		В	J^{π} : 1069.2 γ to 4 ⁺ and 1214.8 γ to 2 ⁺ ; not observed in ¹¹² Rh β ⁻ decay (3.6 s), (1 ⁺) (1999Lh01).								
2002.73 [@] 23	(6 ⁺)		BC EF	J^{π} : 640.4 γ to (4 ⁺); band member.								

¹¹²Pd Levels (continued)

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J^{\pi}
   E(level)
                                               XREF
                                                                                                                                       Comments
                           (2^-,3,4^+)
                                                                J^{\pi}: 1687.8\gamma to 2<sup>+</sup>; 158.1\gamma from (4)<sup>-</sup>.
2036.47 25
                                                 В
                                                                J^{\pi}: 1758.7\gamma to 2<sup>+</sup>, a tentative 2106.6\gamma to 0<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s),
2107.4 4
                           (1,2^+)
                                              Α
                                                                J^{\pi}: 1061.7\gamma to 3<sup>+</sup>; observation in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^{+}).
2158.0 4
                           (3,4,5^+)
                                                 R
2194.57 17
                                                                J^{\pi}: 1098.6\gamma E1(+M2) to 3<sup>+</sup>, 1311.6\gamma E1+M2 to 4<sup>+</sup>; 435.6\gamma to (5<sup>+</sup>).
                           (4)^{-}
                                                 BC
                                                         F
                          (5,6^+)
                                                                XREF: F(2199.6).
2200.59 18
                                                 В
                                                                J^{\pi}: 1317.6\gamma to 4<sup>+</sup> and 650.1\gamma to 6<sup>+</sup>; observation in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J\pi=(6<sup>+</sup>).
2269.38<sup>&</sup> 21
                           (5^{-})
                                                 BC F
                                                                J^{\pi}: 1386.4\gamma to 4<sup>+</sup>.
2318.3<sup>#</sup> 4
                           8+
                                                  C EF
                                                                J^{\pi}: 767.8\gamma E2 to 6<sup>+</sup>; band member.
                                                                J^{\pi}: 1451.1\gamma to 4<sup>+</sup>; observation in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^{+}).
2334.1 4
                           (5,6^+)
                                                 В
                                                                J^{\pi}: 159.9\gamma to (4)<sup>-</sup>, 1471.5\gamma to 4<sup>+</sup>, 1258.2\gamma to 3<sup>+</sup>. No transitions to 2<sup>+</sup>; observation in
2354.47 19
                           (4,5^+)
                                                BC
                                                                    <sup>112</sup>Rh \beta^- decay (3.76 s), J\pi = (6^+).
                                                                J^{\pi}: 2008.1\gamma to 2<sup>+</sup>; observation in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
2356.7 7
                           (1,2^+)
                                              Α
                                                                J^{\pi}: 1298.9\gamma to 3<sup>+</sup> and 1512.1\gamma to 4<sup>+</sup>; observation in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^{+}).
2395.17 22
                           (5^{+})
                                                В
                                                                J^{\pi}: 1547.8\gamma to 4<sup>+</sup>; observation in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^+).
2430.8 5
                           (5,6^+)
                                                В
                                                                J^{\pi}: 2432.7\gamma to 0<sup>+</sup>; observation in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J\pi=(1<sup>+</sup>).
2432.5? 5
                           (1,2^+)
                                               Α
2441.4 3
                           (5,6^+)
                                                                J^{\pi}: 726.5\gamma to (3,4<sup>+</sup>) and 890.9\gamma to 6<sup>+</sup>; observation in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^{+}).
                                                В
                                                                J^{\pi}: 2117.4\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
2466.1? 6
                           (1,2^+)
                                              Α
2482.9<sup>@</sup> 5
                           (7^{+})
                                                                J^{\pi}: 724.0\gamma to (5<sup>+</sup>); band member.
                                                   C
2496.87 24
                                                                J^{\pi}: 1760.1\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J\pi=(1<sup>+</sup>).
                           (0^+,1,2)
                                              Α
2509.8 6
                           (1,2^+)
                                                                J^{\pi}: 2161.1\gamma to 2<sup>+</sup>, 2511.2\gamma to 0<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
                                              Α
                                                                J^{\pi}: 1803.8\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
2540.5 5
                           (0^+,1,2)
                                              Α
                                                                J^{\pi}: 1446.9\gamma to 3<sup>+</sup> and 1660.3\gamma to 4<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6<sup>+</sup>).
2543.2 3
                                                В
                           (5^{+})
                                                                J^{\pi}: 1028.3\gamma to 6<sup>+</sup>, 309.2\gamma to (5<sup>-</sup>). No \gamma transitions to 4<sup>+</sup> states; band member.
2578.7<sup>a</sup> 4
                                                BC
                           (6^{-})
                                                                J^{\pi}: 1867.2\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
2603.9 5
                           (0^+,1,2)
2614.5<sup>b</sup> 8
                                                                J^{\pi}: 855\gamma to (5<sup>+</sup>); band member.
                           (6^{-})
                                                                J^{\pi}: 1079.2\gamma to 6<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^{+}).
2629.7 6
                           (5,6,7)
                                                 В
2638.6<sup>@</sup> 6
                           (8^{+})
                                                                J^{\pi}: 1088\gamma to 6<sup>+</sup>; band member.
                                                                J^{\pi}: 2316.8\gamma to 2<sup>+</sup>, 2664.7\gamma to 0<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
2665.5 5
                           (1,2^+)
                                              Α
                                                                J^{\pi}: 2339.7\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
2688.14 24
                           (0^+,1,2)
2691.2 4
                                                        F
                           (8^{+})
                                                   C
                                                                J^{\pi}: 1140.3\gamma to 6<sup>+</sup>.
2704.5<sup>&</sup> 4
                                                  C
                                                                J^{\pi}: 1153.9\gamma to 6<sup>+</sup>, 434.8\gamma to (5<sup>-</sup>); band member.
                           (7^{-})
                                                                J^{\pi}: 1161.5\gamma to 6<sup>+</sup>; band member.
2711.4<sup>c</sup> 5
                                                  C
                                                        F
                           (7^{-})
                                                                J^{\pi}: 2746.7\gamma to 0<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J\pi=(1<sup>+</sup>).
2747.3 3
                           (1,2^+)
                                               Α
                                                                J^{\pi}: 1204.3\gamma M1+E2 to 6<sup>+</sup>,1658.5\gamma to 3<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s),
2754.78 17
                           5+
                                                BC
                                                                    J\pi = (6^+); Others: J=4 in <sup>252</sup>Cf SF decay (1999Bu32) and <sup>208</sup>Pb(<sup>18</sup>O,X\gamma) (2001Kr08).
2770.0 7
                                                                J^{\pi}: 2421.3\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
                           (0^+,1,2)
                                              Α
                                                                J^{\pi}: 2447.1\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1<sup>+</sup>).
2795.8? 6
                           (0^+,1,2)
                                              Α
                                                                J^{\pi}: 2488.2\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
2836.4 5
                           (0^+,1,2)
                                              Α
2898.9<sup>a</sup> 4
                                                  C
                                                                J^{\pi}: 320.2\gamma to (6<sup>-</sup>); band member.
                           (8^{-})
                                                                J^{\pi}: 1604.2\gamma to (4<sup>+</sup>), 1416.1\gamma to 6<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6<sup>+</sup>).
2966.60 23
                           (5,6^+)
                                                BC
                                                                J^{\pi}: 2628.6\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
2977.2? 6
                           (0^+,1,2)
                                              Α
                                                                J^{\pi}: 2665.0\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
                           (0^+,1,2)
3013.8 5
                                              Α
                                                                J^{\pi}: 1493.1\gamma to 6<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^{+}).
3043.3 4
                           (5,6)
3045.5<sup>b</sup> 13
                                                                J^{\pi}: 431\gamma to (6<sup>-</sup>); band member.
                           (8^{-})
3050.1<sup>#</sup> 6
                           10^{+}
                                                   C
                                                                J^{\pi}: 731.9\gamma E2 to 8<sup>+</sup>; band member.
3084.7<sup>@</sup> 6
                           (9^+)
                                                   C
                                                        F
                                                                J^{\pi}: 393\gamma to (8<sup>+</sup>), 601.9\gamma to (7<sup>+</sup>); band member.
3137.3<sup>&</sup> 4
                           (9^{-})
                                                   C
                                                        F
                                                                J^{\pi}: 432.9\gamma to (7<sup>-</sup>), 819.0\gamma to 8<sup>+</sup>; band member.
3175.3 11
                                                                J^{\pi}: 2876.6\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J_{\pi}=(1^{+}).
3225.5 6
                           (0^+,1,2)
                                              Α
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¹¹²Pd Levels (continued)

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J^{\pi \ddagger}
  E(level)
                                           XREF
                                                                                                                                  Comments
3260.9 11
                                                    F
3265.2<sup>c</sup> 6
                                                           XREF: C(3266.0)F(3263.4).
                         (9^{-})
                                              C
                                                   F
                                                           J^{\pi}: 554.1\gamma to (7<sup>-</sup>), 946\gamma to 8<sup>+</sup>; band member.
3327.0<sup>@</sup> 7
                                                           J^{\pi}: 689\gamma to (8<sup>+</sup>); band member.
                         (10^{+})
                                                           J^{\pi}: 2989.2\gamma to 2<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.6 s), J\pi=(1<sup>+</sup>).
3337.9? 9
                         (0^+,1,2)
                                                           J^{\pi}: 548.0\gamma to (8<sup>-</sup>); band member.
3447.2<mark>a</mark> 6
                                              C
                        (10^{-})
3597.9<sup>#</sup> 8
                                                           J^{\pi}: 547.8\gamma to 10<sup>+</sup>; band member.
                         (12^{+})
                                              C
                                                    F
3625.7<sup>@</sup> 12
                                                           J^{\pi}: 541\gamma to (9<sup>+</sup>); band member.
                        (11^{+})
3654.5<sup>b</sup> 16
                        (10^{-})
                                                           J^{\pi}: 609\gamma to (8<sup>-</sup>); band member.
3744.7<sup>&</sup> 6
                                                    F
                                                           J^{\pi}: 297\gamma to (10<sup>-</sup>), 607.7\gamma to (9<sup>-</sup>); band member.
                         (11^{-})
                                              C
                                                           J^{\pi}: 2208.9\gamma to 6<sup>+</sup>, 2397.6\gamma to (4<sup>+</sup>); direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J\pi=(6<sup>+</sup>).
3759.6 5
                                            В
                         (5,6^+)
                                                           J^{\pi}: 2409.6\gamma to (4<sup>+</sup>); direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^+).
3772.0 8
                         (5,6^+)
                                            В
                                                           J^{\pi}: 2911.3\gamma to 4<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^+).
3794.3 9
                         (5,6^+)
                                            В
                                                           J^{\pi}: 3057.3\gamma to 4<sup>+</sup>; direct feeding in <sup>112</sup>Rh \beta<sup>-</sup> decay (3.76 s), J_{\pi}=(6^{+}).
3940.3 9
                         (5.6^+)
                                            В
3951.2<sup>c</sup> 12
                                                           J^{\pi}: 686\gamma to (9<sup>-</sup>); band member.
                        (11^{-})
4046.3 15
4086.3 15
                                                    F
4117.0<sup>a</sup> 9
                        (12^{-})
                                                    F
                                                           J^{\pi}: 373\gamma to (11<sup>-</sup>), 669\gamma to (10<sup>-</sup>); band member.
4321.9<sup>#</sup> 9
                                                   F
                        (14^{+})
                                              C
                                                           J^{\pi}: 724.0\gamma to (12<sup>+</sup>); band member.
4327.7<sup>@</sup> 16
                        (13^+)
                                                    F
                                                           J^{\pi}: 702\gamma to (11<sup>+</sup>); band member.
4391.5<sup>b</sup> 19
                        (12^{-})
                                                    F
                                                           J^{\pi}: 737\gamma to (10<sup>-</sup>); band member.
4477.7<sup>&</sup> 12
                                                    F
                                                           J^{\pi}: 733\gamma to (11<sup>-</sup>); band member.
                        (13^{-})
4748.2° 16
                                                           J^{\pi}: 797\gamma to (11<sup>-</sup>); band member.
                        (13^{-})
4931.3 18
                                                    F
5221.9<sup>#</sup> 14
                                                           J^{\pi}: 900\gamma to (14<sup>+</sup>); band member.
                        (16^{+})
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[†] From a least squares fit to γ ray energies.

[‡] Based on the band structure, unless otherwise noted.

[#] Band(A): Member of $\Delta J=2$ ground-state band.

[®] Band(B): Member of the quasi-gamma band.

[&]amp; Band(C): Member of $\Delta J=2$ band built on the (5⁻) state; configuration= $\nu h_{11/2} \otimes (g_{7/2}, d_{5/2}), \alpha=1$.

^a Band(c): Member of $\Delta J=2$ band built on the (6⁻) state; configuration= $\nu h_{11/2} \otimes (g_{7/2}, d_{5/2}), \alpha=0$.

^b Band(D): Member of ΔJ=2 band built on the (6⁻) state; configuration= $vh_{11/2} \otimes (s_{1/2}, d_{3/2})$, α =0.

^c Band(d): Member of $\Delta J=2$ band built on the (7⁻) state; configuration= $vh_{11/2}\otimes(s_{1/2},d_{3/2}), \alpha=1$.

^d Band(E): Probable member of $\Delta J=2$ intruder band (1999Lh01).

γ (112Pd)

$E_i(level)$	J_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\dagger}	$\mathbf{E}_f \mathbf{J}_f^{\pi}$	Mult.	$\delta^{\dagger a}$	$\alpha^{\#b}$	Comments
348.66	2+	348.7 2	100	0.0 0+	(E2)		0.0181	B(E2)(W.u.)=40 7 α (K)=0.01552 22; α (L)=0.00210 3; α (M)=0.000396 6
								$\alpha(N) = 6.53 \times 10^{-5} \ 10$
736.72	2+	388.0 2	100 7	348.66 2+	E2(+M1)	-4.7 + 17 - 35	0.01276 23	$\alpha(K)=0.01099$ 20; $\alpha(L)=0.00145$ 3; $\alpha(M)=0.000274$ 6
								$\alpha(N)=4.52\times10^{-5}$ 10 Mult.: A ₂ =0.08 4; A ₄ =0.28 5, gated on 388.0 γ and 348.8 γ in ²⁵² Cf SF decay (1999Bu32); A ₂₂ =0.089 34 gated on 348.7 γ and 388.0 γ in 1999Lh01.
		736.7 2	31 4	0.0 0+	(E2)		0.00209	$\alpha(K)=0.00182 \ 3; \ \alpha(L)=0.000220 \ 3; \ \alpha(M)=4.13\times10^{-5} \ 6$
		730.7 2	31 4	0.0	(E2)		0.00209	$\alpha(N)=6.92\times10^{-6}$ 10
								Mult.: A_{22} =-0.208 41 gated on 359.6 γ and 736.7 γ in
								1999Lh01.
882.96	4+	534.3 2	100	348.66 2+	E2		0.00494	$\alpha(K)=0.00428 \ 6$; $\alpha(L)=0.000539 \ 8$; $\alpha(M)=0.0001014 \ 15$
								$\alpha(N)=1.688\times10^{-5} 24$
								Mult.: A_2 =0.14 2; A_4 =-0.01 2, gated on 534.3 γ and 348.8 γ in 252 Cf SF (1999Bu32); A_{22} =0.105 34 gated on 348.7 γ and 534.3 γ in 1999Lh01.
923.7	1,2+	574.4 [‡]	100 [‡]	348.66 2+				,
	,	924.4 [‡]	19 [‡]	0.0 0+				
1096.27	3+	213.3 2	3.6 6	882.96 4+				
		359.6 2	100 8	736.72 2+	M1+E2		0.01252	$\alpha(K)$ =0.01093 <i>16</i> ; $\alpha(L)$ =0.001298 <i>19</i> ; $\alpha(M)$ =0.000244 <i>4</i> $\alpha(N)$ =4.11×10 ⁻⁵ <i>6</i>
								Mult.: A_2 =-0.16 7; A_4 =-0.06 8, gated on 359.4 γ and 736.8 γ in 252 Cf SF (1999Bu32); A_{22} =0.041 35 gated on 348.7 γ and 359.6 γ in 1999Lh01.
		747.6 2	79 8	348.66 2+	E2(+M1)	-1.65 10	0.00205	$\alpha(K)=0.00179 \ 3; \ \alpha(L)=0.000214 \ 3; \ \alpha(M)=4.02\times10^{-5} \ 6$
					()			$\alpha(N)=6.75\times10^{-6}\ 10$
								Mult.: A_{22} =-0.485 47 gated on 348.7 γ and 747.6 γ in 1999Lh01.
1125.48	0_{+}	386.2		736.72 2+				E_{γ} : from ¹¹⁰ Pd(t,p γ).
		776.9 2	100	348.66 2+	E2		0.00183	$\alpha(K)=0.001593\ 23;\ \alpha(L)=0.000192\ 3;\ \alpha(M)=3.60\times10^{-5}\ 5$
								$\alpha(N)=6.03\times10^{-6} 9$
								Mult.: A_{22} =0.493 66 gated on 348.7 γ and 776.9 in ¹¹² Rh β ⁻ decay (1999Lh01).
		1125.3		$0.0 0^{+}$	E0			E_{γ} : from ¹¹⁰ Pd(t,p γ).
								Mult.: from I(E0,K)/I(tot)>58×10 ⁶ (1987Es01) and I(ce(K) 1125)/I γ (777 γ)= 1.26 × 10^{-4} in 110 Pd(t,p γ) (1987Es01,1986HeZT).
1139.83	$(0,1,2)^+$	402.8 [@] 4	31 [@] 7	736.72 2+				(170,2001,170011021).
1107.00	(0,1,2)	102.0 7	J. /	130.72 2				

γ (112Pd) (continued)

$E_i(level)$	\mathtt{J}_i^{π}	E_{γ}^{\dagger}	${\rm I}_{\gamma}{}^{\dagger}$	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Mult.	$\alpha^{\#b}$	Comments
1139.83	$(0,1,2)^+$	791.2 [@] 2	100 [@] 14	348.66 2+	E2	1.75×10 ⁻³	$\alpha(K)$ =0.001523 22; $\alpha(L)$ =0.000183 3; $\alpha(M)$ =3.44×10 ⁻⁵ 5 $\alpha(N)$ =5.76×10 ⁻⁶ 8 Mult.: A_{22} =0.34 8 in ¹¹² Rh β ⁻ decay (3.6 s) (1999Lh01).
1362.37	(4 ⁺)	479.4 2 625.7 2 1013.9 ^c 4	25 <i>4</i> 100 <i>9</i> 4.7 <i>25</i>	882.96 4 ⁺ 736.72 2 ⁺ 348.66 2 ⁺			Mate. 1122 = 0.5 1 0 m
1402.64	2+	519.8 [@] 5 665.8 [@] 5	9.3 [@] 23 30 [@] 12	882.96 4 ⁺ 736.72 2 ⁺			
		1054.0 [@] 2 1402.6 [@] 3	100 [@] 14 67 [@] 9	348.66 2 ⁺ 0.0 0 ⁺			
1422.68	2+	297.1 [@] 4 326.6 [@] 3	14 [@] 3 28 [@] 6	1125.48 0 ⁺ 1096.27 3 ⁺			
		539.7 [@] 3 686.0 [@] 2	25 [@] 6 100 [@] 11	882.96 4 ⁺ 736.72 2 ⁺			
		1074.0 [@] 2 1422.6 [@] 3	56 [@] 11 81 [@] 17	348.66 2 ⁺ 0.0 0 ⁺			
1550.47	6+	667.5 2	100	882.96 4+	E2	0.00269	$\alpha(K)=0.00234$ 4; $\alpha(L)=0.000286$ 4; $\alpha(M)=5.38\times10^{-5}$ 8 $\alpha(N)=8.99\times10^{-6}$ 13
							Mult.: A_2 =0.13 2; A_4 =-0.03 3, gated on 667.3 γ and 534.3 in ²⁵² Cf SF (1999Bu32); A_{22} =0.097 45 gated on 348.7 γ and 667.5 γ in ¹¹² Rh β ⁻ decay (6.76 s) (1999Lh01).
1714.87	(3,4+)	618.6 2 831.9 2 978.2 5 1366.2 ^c 4	100 <i>11</i> 26 5 53 5 11 5	1096.27 3 ⁺ 882.96 4 ⁺ 736.72 2 ⁺ 348.66 2 ⁺			
1747.5? 1758.97	(1,2 ⁺) (5 ⁺)	1398.8 [@] c 4 396.6 ^c 4 662.7 2 876.0 4	100 [@] 5.2 17 100 10 3.5 17	348.66 2 ⁺ 1362.37 (4 ⁺) 1096.27 3 ⁺ 882.96 4 ⁺			
1774.4? 1887.4	$(1,2^+)$ (4^+)	1425.7 [@] c 4 464.7 4	100 [@] 50 <i>17</i>	348.66 2 ⁺ 1422.68 2 ⁺			
		791.1 <i>3</i>	100 33	1096.27 3+	M1+E2	0.00191	$\alpha(K)$ =0.001669 24; $\alpha(L)$ =0.000194 3; $\alpha(M)$ =3.63×10 ⁻⁵ 5 $\alpha(N)$ =6.13×10 ⁻⁶ 9 Mult.: A_{22} =0.339 77 gated on 348.7 γ and 791.1 γ in ¹¹² Rh β ⁻ decay
		1004.7 ^c 5	23 10	882.96 4+			(6.76 s) (1999Lh01).

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$E_i(level)$	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\dagger}	\mathbf{E}_f \mathbf{J}_f^{π}	Mult.	$\delta^{\dagger a}$	$\alpha^{\#b}$	Comments
1951.6	$(3,4^+)$	855.1 <i>5</i> 1069.2 <i>6</i>	80 20 42 10	1096.27 3 ⁺ 882.96 4 ⁺				
2002.73	(6 ⁺)	1214.8 <i>5</i> 453.8 ^{‡c} 640.4 2	100 <i>40</i> 45 [‡] 100	736.72 2 ⁺ 1550.47 6 ⁺ 1362.37 (4 ⁺)				
2036.47	$(2^-,3,4^+)$	1687.8 5	100	348.66 2 ⁺				
2107.4	$(1,2^+)$	1758.7 [@] 3	100 [@] 21	348.66 2+				
		2106.6 [@] c 5	19 [@] 5	$0.0 0^{+}$				
2158.0	$(3,4,5^+)$	1061.7 <i>3</i> 158.1 2	100	1096.27 3+				
2194.57	(4)	435.6 2	0.18 <i>6</i> 0.8 <i>2</i>	2036.47 (2 ⁻ ,3,4 ⁺) 1758.97 (5 ⁺)				
		479.7 2	3.4 4	$1714.87 (3,4^{+})$				
		832.2 2	0.28 6	1362.37 (4+)	E1/ 1/2	0.40.22	0.0006.4	(II) 0 000 (4 (I) III 5 (A) 10 10 10 5 0
		1098.3 2	100 10	1096.27 3+	E1(+M2)	-0.43 32	0.0006 4	$\alpha(K)$ =0.0006 4; $\alpha(L)$ =7.E-5 4; $\alpha(M)$ =1.2×10 ⁻⁵ 8 $\alpha(N)$ =2.1×10 ⁻⁶ 13 Mult.: A ₂ =0.07 5; A ₄ =0.03 6, gated on 1098.6 γ and
								359.4 γ in ²⁵² Cf SF (1999Bu32); A ₂₂ =0.014 40 gated on 359.6 γ and 1098.3 γ in ¹¹² Rh β ⁻ decay (6.76 s) (1999Lh01).
		1311.6 2	17.2 22	882.96 4+	E1+M2	-0.43 32	0.00053 21	$\alpha(K)$ =0.00038 20; $\alpha(L)$ =4.4×10 ⁻⁵ 24; $\alpha(M)$ =8.E-6 5 $\alpha(N)$ =1.4×10 ⁻⁶ 8; $\alpha(IPF)$ =8.8×10 ⁻⁵ 20 Mult.: A ₂₂ =0.169 52 gated on 348.7 γ and 1311.6 γ in ¹¹² Rh β ⁻ decay (6.76 s) (1999Lh01).
		1457.9 ^c 2	0.4 4	736.72 2+				Tanp doody (0.70 b) (199921101).
2200.50	(5.6+)	1845.9 5	1.0 4	348.66 2 ⁺				
2200.59	$(5,6^+)$	441.3 ^c 4 485.7 2	25 <i>13</i> 100 <i>13</i>	1758.97 (5 ⁺) 1714.87 (3,4 ⁺)				
		650.1 2	50 13	1550.47 6+				
		838.2 2	100 25	1362.37 (4+)				
2269.38	(5-)	1317.6 <i>3</i> 1386.4 2	63 25 100	882.96 4 ⁺ 882.96 4 ⁺				
2318.3	8 ⁺	767.8 [§] 3	100 100	1550.47 6 ⁺	E2		0.00188	$\alpha(K)=0.001639\ 23;\ \alpha(L)=0.000198\ 3;$
2310.3	o .	707.0 3	100	1330.17	12		0.00100	$\alpha(M)$ =3.71×10 ⁻⁵ 6 $\alpha(N)$ =6.22×10 ⁻⁶ 9 Mult.: A ₂ =0.16 5; A ₄ =-0.01 6, gated on 767.8 γ and 667.3 γ in 252Cf SF (1999Bu32).
2334.1	$(5,6^+)$	1451.1 3	100	882.96 4+				(177)2002).
2354.47	$(4,5^+)$	159.9 3	7.4 18	2194.57 (4)				
		993.3 ^c 6 1258.2 2	2.1 <i>9</i> 29 <i>6</i>	1362.37 (4 ⁺) 1096.27 3 ⁺				

E_i (level)	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	${\rm I}_{\gamma}{}^{\dagger}$	$\mathbf{E}_f \qquad \mathbf{J}_f^{\pi}$	Mult.	$\alpha^{\#b}$	Comments
2354.47	(4,5 ⁺)	1471.5 2	100 15	882.96 4+	M1	5.57×10 ⁻⁴	$\alpha(K)$ =0.000433 6; $\alpha(L)$ =4.95×10 ⁻⁵ 7; $\alpha(M)$ =9.27×10 ⁻⁶ 13 $\alpha(N)$ =1.566×10 ⁻⁶ 22; $\alpha(IPF)$ =6.31×10 ⁻⁵ 9 Mult.: A ₂₂ =0.188 65 gated on 348.7 γ and 1471.5 γ in 1999Lh01; δ :-0.017 in 1999Lh01.
2356.7	$(1,2^+)$	2008.1 ^{@c} 6	100 [@]	348.66 2+			
2395.17	(5^{+})	1298.9 <i>3</i>	100 17	1096.27 3+			
		1512.1 5	83 17	882.96 4+			
2430.8	$(5,6^+)$	1547.8 <i>4</i>	100	882.96 4+			
2432.5?	$(1,2^+)$	2083.4° 7	100	348.66 2+			
2441.4	$(5,6^+)$	2432.7 ^c 6 726.5 3	100 100 25	$0.0 0^+ $ $1714.87 (3,4^+)$			
2441.4	(3,0)	890.9 <i>3</i>	58 13	1550.47 6 ⁺			
2466.1?	$(1,2^+)$	2117.4 [@] c 5	100@	348.66 2 ⁺			
2482.9	(7^+)	724.0 [§] 5	100	1758.97 (5 ⁺)			
2496.87	$(0^+,1,2)$	1074.3 [@] 3	54 [@] 13	1422.68 2+			
	, , , ,	1094.2 [@] 4	50 [@] 17	1402.64 2+			
		1760.1 [@] 4	100 [@] 17	736.72 2+			
		2147.7 [@] 7	25 [@] 13	348.66 2+			
2509.8	$(1,2^+)$	2161.1 [@] 5	100 [@] 33	348.66 2+			
		2511.2 ^{@c} 7	25 [@] 8	$0.0 0^{+}$			
2540.5	$(0^+,1,2)$	1803.8 [@] 4	100 [@]	736.72 2+			
2543.2	(5^{+})	1446.9 <i>3</i>	100 15	1096.27 3+			
		1660.3 5	38 8	882.96 4+			
2578.7	(6-)	309.2 <i>5</i> 1028.3 <i>4</i>	100	2269.38 (5 ⁻) 1550.47 6 ⁺			E_{γ} : From ²⁵² Cf SF decay.
2603.9	$(0^+,1,2)$	1867.2 [@] 4	100 100	736.72 2+			
2614.5	$(6^-,1,2)$ (6^-)	855 ^{&} 1	100 &	1758.97 (5 ⁺)			
2629.7	(5,6,7)	1079.2 5	100	1550.47 6 ⁺			
2638.6	(8+)	636 <mark>&</mark> 1	&	2002.73 (6+)			
		1088 <mark>&</mark> <i>1</i>	&	1550.47 6+			
2665.5	$(1,2^+)$	2316.8 [@] 4	100 [@] 25	348.66 2+			
		2664.7 [@] c	69 [@] 50	$0.0 0^{+}$			
2688.14	$(0^+,1,2)$	1265.5 [@] 4	31 [@] 9	1422.68 2+			
		1285.2 [@] 5	28 [@] 9	1402.64 2+			

$E_i(level)$	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\dagger}	\mathbb{E}_f	\mathbf{J}_f^π	Mult.	$\alpha^{\#b}$	Comments
2688.14	$(0^+,1,2)$	1951.3 [@] 4	41 [@] 9	736.72 2	+			
	. , , ,	2339.7 [@] 4	100 [@] 16	348.66 2				
2691.2	(8 ⁺)	688.5 [§] 5	100 <mark>\$</mark>	2002.73 (
	(0)	1140.3 5		1550.47 6				E_{γ} : from ²⁵² Cf SF decay.
2704.5	(7^{-})	434.8 ^c 5		2269.38 (E_{γ} : from ²⁵² Cf SF decay.
		1153.9 [§] 5	100 <mark>\$</mark>	1550.47 6	+			•
2711.4	(7^{-})	1161.5 [§] 5	100 <mark>\$</mark>	1550.47 6	+			
2747.3	$(1,2^+)$	1344.8 [@] 3	25 [@] 6	1402.64 2				
	())	1607.3 [@] 4	19 [@] 4	1139.83 (
		2398.7 [@] 5	100 [@] 13	348.66 2				
		2746.6 [@] c 5	21 [@] 4	0.0 0				
2754.78	5+	359.6 2	0.48 16	2395.17 (
		400.3 2	6.6 8	2354.47 (
		485.4 2	1.9 <i>3</i>	2269.38 (
		554.2 2	1.61 <i>16</i>	2200.59 (
		560.2 2	100 10	2194.57 (4)-	D		Mult.: A_2 =0.14 3; A_4 =-0.02 4, gated on 560.5 γ and 1098.6 γ in 252 Cf SF (1999Bu32).
		802.9 ^c 4	0.32 16	1951.6				
		995.8 2	3.7 5	1758.97 (
		1039.9 2	1.9 3	1714.87 (3.64 770	- 60 10-1	gry a consect to gry 7.7 0 to 5.11 gry t to 5.20
		1204.3 2	4.3 7	1550.47 6	, ,	M1+E2	7.60×10^{-4}	$\alpha(K)$ =0.000661 10; $\alpha(L)$ =7.59×10 ⁻⁵ 11; $\alpha(M)$ =1.420×10 ⁻⁵ 20 $\alpha(N)$ =2.40×10 ⁻⁶ 4; $\alpha(IPF)$ =6.58×10 ⁻⁶ 10
								Mult.: A_{22} =0.078 73 gated on 348.7 γ and 1204.3 γ in ¹¹² Rh β ⁻ decay (6.76 s) (1999Lh01).
		1392.4 3	0.81 16	1362.37 (
		1658.5 3	5.5 8	1096.27 3	+	(E2)	4.98×10 ⁻⁴	$\alpha(K)$ =0.000309 5; $\alpha(L)$ =3.54×10 ⁻⁵ 5; $\alpha(M)$ =6.63×10 ⁻⁶ 10 $\alpha(N)$ =1.118×10 ⁻⁶ 16; $\alpha(IPF)$ =0.0001457 21 Mult.: A ₂₂ =-0.105 89 gated on 359.6 γ and 1658.5 γ in 1999Lh01 would suggest D, but the level scheme requires ΔJ =2.
		1871.8 <i>4</i>	3.7 7	882.96 4	+			
2770.0	$(0^+,1,2)$	2421.3 [@] 6	100 [@]	348.66 2	+			
2795.8?	$(0^+,1,2)$	2447.1 [@] c 6	100 [@]	348.66 2				
2836.4	$(0^+,1,2)$	1413.5 [@] 5	100 [@] 27	1422.68 2				
	(- , , -)	2488.2 [@] 7	64 [@] 27	348.66 2				
2898.9	(8-)	188 <mark>&</mark> 1	&		7-)			
20,000	(0)	-00 1		_,(. ,			

$E_i(level)$	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	I_{γ}^{\dagger}	E_f	$\mathbf{J}_f^{\boldsymbol{\pi}}$	Mult.	$\alpha^{\#b}$	Comments
2898.9	(8-)	194 <mark>&</mark> 1	&	2704.5	(7-)			
		284 <mark>&</mark> 1	&	2614.5	(6-)			
		320.2 [§] 5	100 <mark>§</mark>	2578.7	(6-)			
		416 <mark>&</mark> 1	&	2482.9	(7^{+})			
2966.60	$(5,6^+)$	963.9 2	86 14	2002.73				
		1416.1 2 1604.2 5	100 <i>14</i> 43 <i>14</i>	1550.47				
2977.2?	$(0^+,1,2)$	2628.6 [@] c 5	100	1362.37 348.66				
3013.8	$(0^+,1,2)$ $(0^+,1,2)$	1611.2 [@] 5	48 [@] 11	1402.64				
3013.0	(0 ,1,2)	2665.0 [@] 7	100 19	348.66				
3043.3	(5,6)	842.4 5	100 33	2200.59				
	(-,-,	1493.1 <i>4</i>	100 33	1550.47				
3045.5	(8-)	431 ^{&} 1	100 <mark>&</mark>	2614.5	(6-)			
3050.1	10 ⁺	411 <mark>&</mark> <i>1</i>	&	2638.6	(8^{+})			
		731.9 [§] 5	100 <mark>\$</mark>	2318.3	8+	E2	0.00212	$\alpha(K)=0.00185$ 3; $\alpha(L)=0.000224$ 4; $\alpha(M)=4.20\times10^{-5}$ 6
								$\alpha(N) = 7.04 \times 10^{-6} 10$
								Mult.: A_2 =0.14 5; A_4 =0.02 5, gated on 731.9 γ and 767.8 γ in 252Cf SF (1999Bu32).
3084.7	(9^+)	393 <i>1</i>		2691.2	(8^{+})			E_{γ} : From 208 Pb(18 O, $X\gamma$).
		601.9 5	0_	2482.9	(7^{+})			E_{γ} : From ²⁵² Cf SF decay.
3137.3	(9-)	239& 1	&	2898.9	(8-)			
		426 ^{&} 1	&	2711.4	(7^{-})			
		432.9 [§] 5	100 [§]	2704.5	(7-)			
		819.0 [§] 5	39 [§]	2318.3	8+			
3175.3		857 ^{&} 1	100&	2318.3	8+			
3225.5	$(0^+,1,2)$	1823.1 8	56 [@] 31	1402.64				
		2876.6 [@] 7	100 [@] 31	348.66				
3260.9	(0-)	778 <mark>&</mark> 1	æ	2482.9	(7^+)			E C 252 GC GE 1
3265.2	(9-)	554.1 <i>5</i> 560 ^{&} <i>1</i>	&	2711.4	(7-)			E_{γ} : from ²⁵² Cf SF decay.
		946 ^{&} 1	&	2704.5	(7 ⁻)			
2227.0	(10±)	635 ^{&} 1	&	2318.3	8 ⁺			
3327.0	(10^+)	635 ^{&} 1	&	2691.2	(8^+)			
		089 1	α.	2638.6	(8^{+})			

$E_i(level)$	\mathbf{J}_i^{π}	$\mathrm{E}_{\gamma}^{\dagger}$	I_{γ}^{\dagger}	\mathbf{E}_f \mathbf{J}_f^{π}	$E_i(level)$	\mathbf{J}_i^{π}	E_{γ}^{\dagger}	${\rm I}_{\gamma}{}^{\dagger}$	\mathbf{E}_f \mathbf{J}_f^{π}	
3327.0	(10^{+})	1009 ^{&} 1	&	2318.3 8+	3940.3	$(5,6^+)$	3057.3 8	100	882.96 4+	
3337.9?	$(0^+,1,2)$	2989.2 ^{@c} 9	100 [@]	348.66 2+	3951.2	(11^{-})	686 <mark>&</mark> 1	100 <mark>&</mark>	3265.2 (9-)	
3447.2	(10^{-})	310 <mark>&</mark> 1	&	3137.3 (9-)	4046.3		871 <mark>&</mark> 1	100 <mark>&</mark>	3175.3	
		548.0 [§] 5	§	2898.9 (8-)	4086.3		911 <mark>&</mark> <i>1</i>	100 <mark>&</mark>	3175.3	
3597.9	(12^{+})	547.8 [§] 5	100 <mark>\$</mark>	3050.1 10 ⁺	4117.0	(12^{-})	373 <mark>&</mark> 1	&	3744.7 (11-)	
3625.7	(11^{+})	541 ^{&} 1	100 <mark>&</mark>	3084.7 (9 ⁺)			669 <mark>&</mark> 1	&	3447.2 (10 ⁻)	
3654.5	(10^{-})	609 <mark>&</mark> 1	100 <mark>&</mark>	3045.5 (8-)	4321.9	(14^{+})	724.0 [§] 5	100 [§]	3597.9 (12 ⁺)	
3744.7	(11^{-})	297 <mark>&</mark> 1	&	3447.2 (10 ⁻)	4327.7	(13^{+})	702 <mark>&</mark> 1	100 <mark>&</mark>	3625.7 (11 ⁺)	
		607.7 [§] 5	100 <mark>\$</mark>	3137.3 (9-)	4391.5	(12^{-})	737 <mark>&</mark> 1	100 <mark>&</mark>	3654.5 (10 ⁻)	
3759.6	$(5,6^+)$	2208.9 5	100 33	1550.47 6+	4477.7	(13^{-})	733 <mark>&</mark> 1	100 <mark>&</mark>	3744.7 (11-)	
		2397.6 8	50 17	1362.37 (4 ⁺)	4748.2	(13^{-})	797 <mark>&</mark> 1	100 <mark>&</mark>	3951.2 (11 ⁻)	
3772.0	$(5,6^+)$	2409.6 7	100	1362.37 (4+)	4931.3		885 <mark>&</mark> 1	100 <mark>&</mark>	4046.3	
3794.3	$(5,6^+)$	2911.3 8	100	882.96 4+	5221.9	(16^{+})	900 <mark>&</mark> 1	100 <mark>&</mark>	4321.9 (14 ⁺)	

[†] From ¹¹²Rh β ⁻ decay (6.76 s), unless otherwise noted.

[‡] From 110 Pd(t,p γ).

[§] From ²⁵²Cf SF decay. & From ²⁰⁸Pb(¹⁸O,Xγ).

[@] From ¹¹²Rh β^- decay (3.6 s).

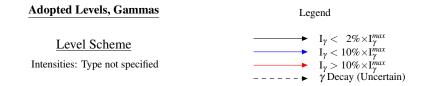
[#] Additional information 1.

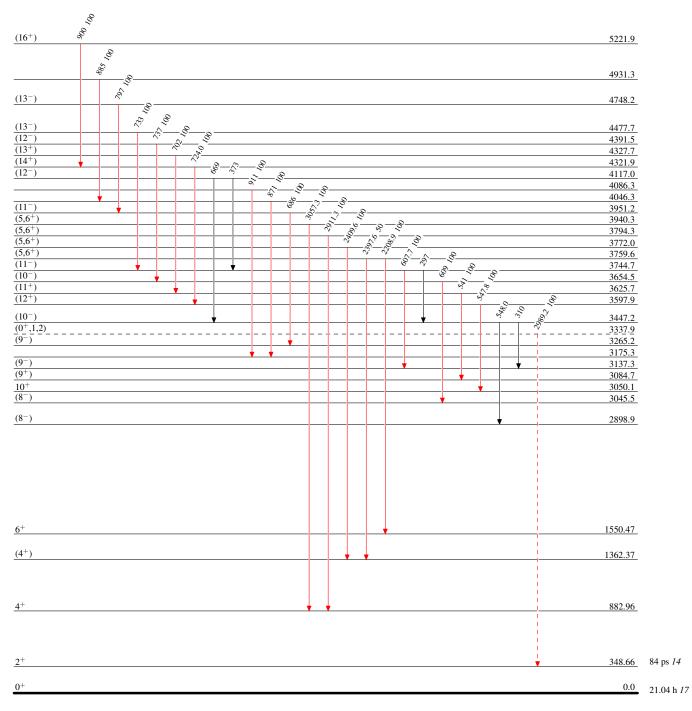
^a If no value given it was assumed δ =0.00 for E2/M1, δ =1.00 for E3/M2 and δ =0.10 for the other multipolarities.

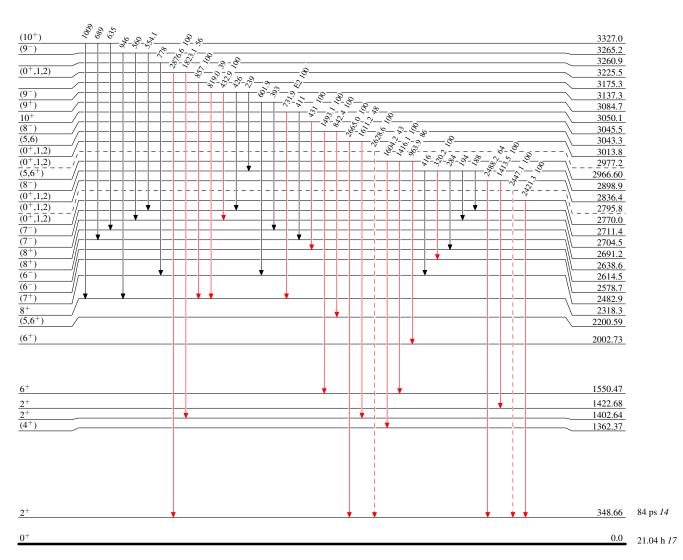
b Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

^c Placement of transition in the level scheme is uncertain.

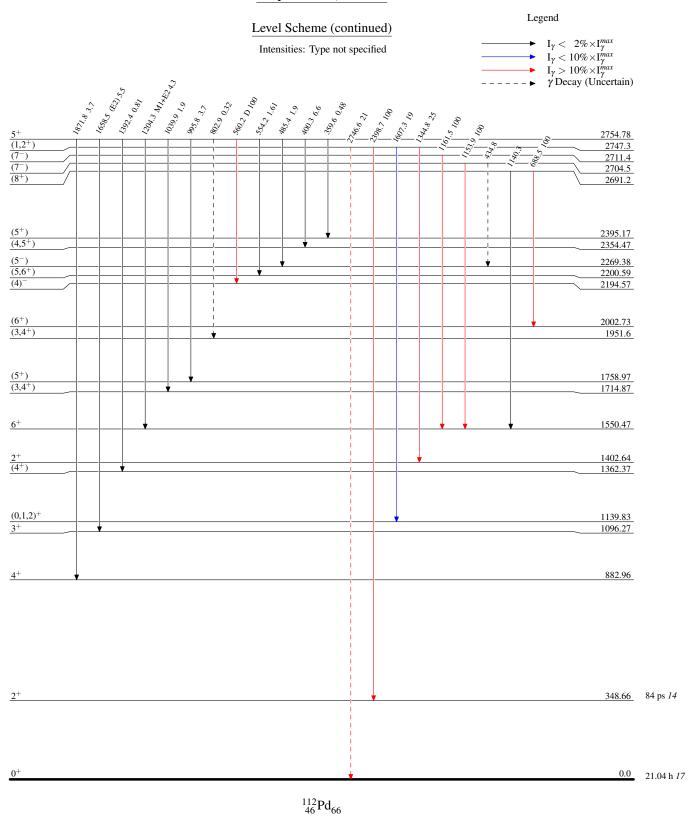
¹¹²₄₆Pd₆₆-11 ¹¹²₄₆Pd₆₆-11

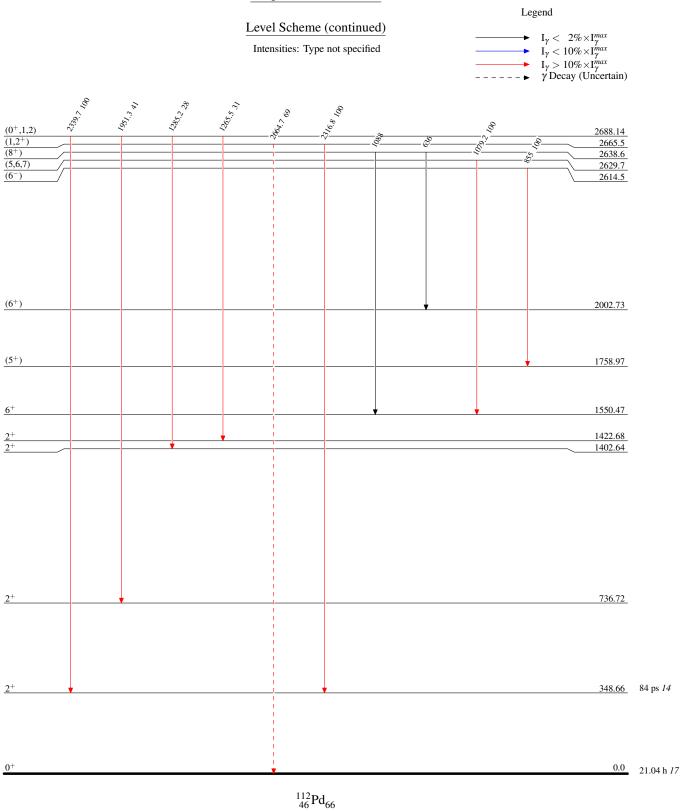


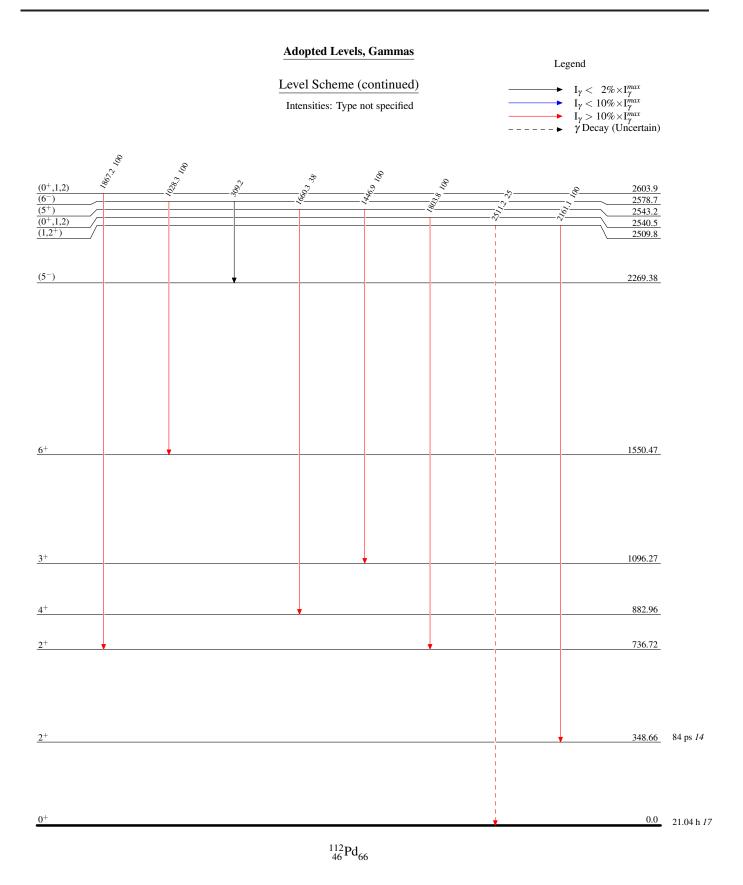


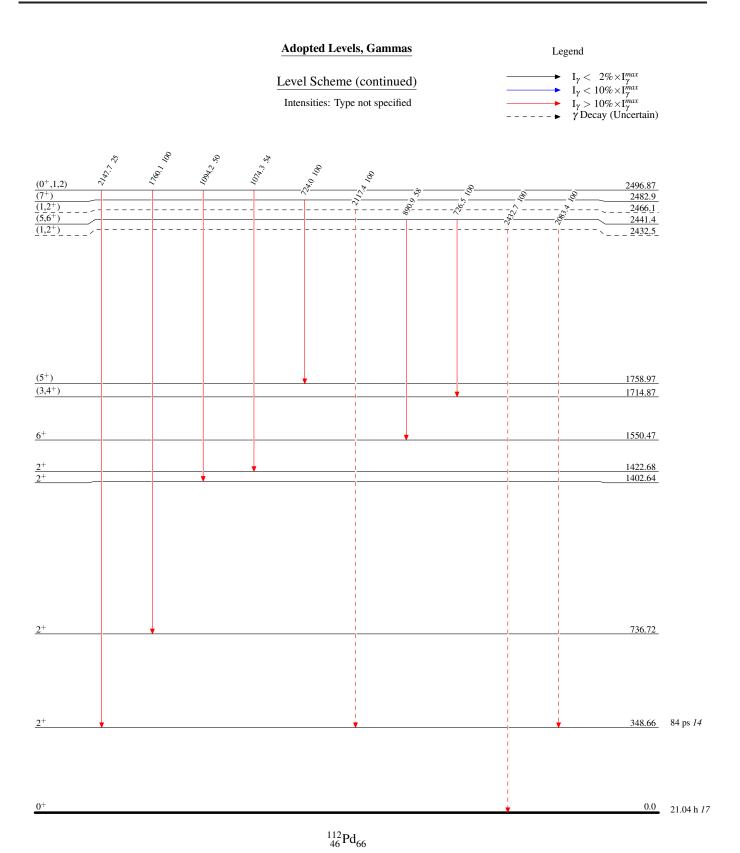


 $^{112}_{46}\mathrm{Pd}_{66}$

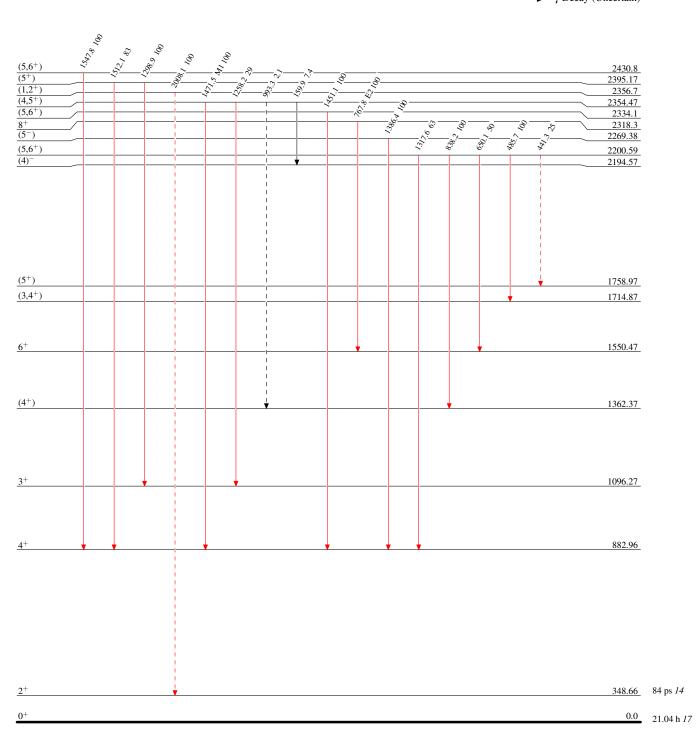


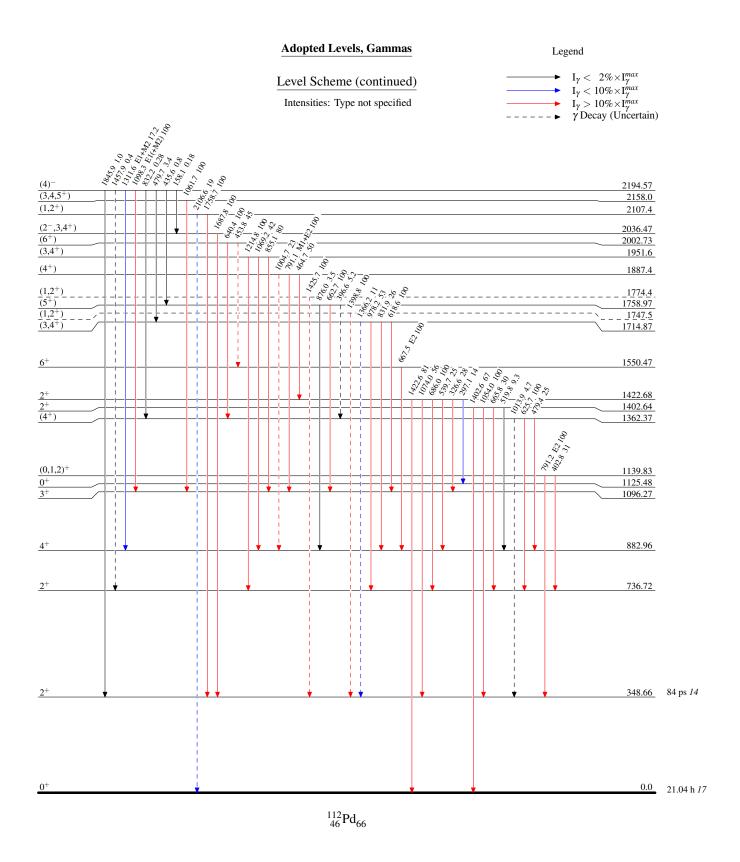


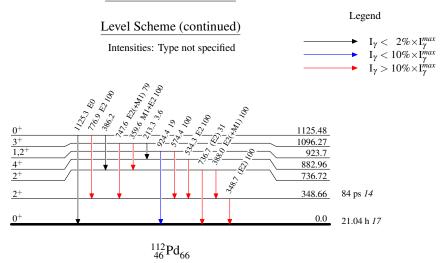


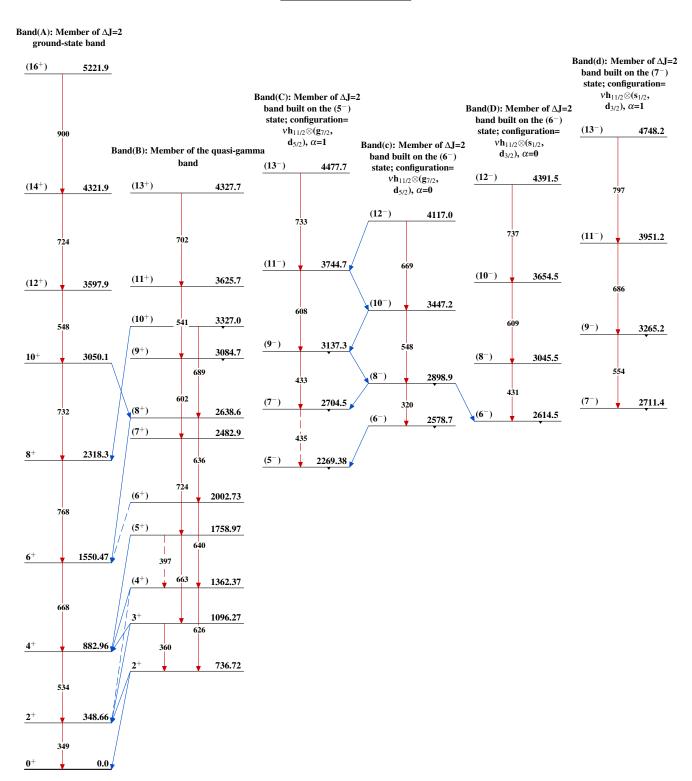












 $\begin{array}{c} Band(E); \ Probable \ member \\ of \ \Delta J{=}2 \ intruder \ band \\ (1999Lh01) \end{array}$

