

Adopted Levels, Gammas

| Type | History | | Literature Cutoff Date |
|-----------------|--------------|----------|------------------------|
| | Author | Citation | |
| Full Evaluation | Jean Blachot | ENSDF | 1-Jul-2006 |

Q(β⁻)=-4096 7; S(n)=8275 19; S(p)=7131 19; Q(α)=-1736 6 [2012Wa38](#)

Note: Current evaluation has used the following Q record -4.20E+3 108273 217133 25-1741 20 [2003Au03](#). [1976Sm06](#) analyzed (HI,xnγ) results on levels in ¹⁰¹Pd, ¹⁰³Pd, ¹⁰⁵Pd using the Nilsson model with Coriolis coupling at deformation≈0.12.

¹⁰¹Pd Levels

Cross Reference (XREF) Flags

- A ¹⁰¹Ag ε decay (11.1 min)
- B ⁹²Zr(¹²C,3nγ)
- C ¹⁰²Pd(³He,αγ)
- D ¹⁰²Pd(d,t)

| E(level) | J ^π † | T _{1/2} | XREF | Comments |
|-----------------------|--|------------------|------|--|
| 0.0 [#] | 5/2 ⁺ | 8.47 h 6 | ABCD | %ε+%β ⁺ =100 μ=-0.66 2 (2005St24) μ: from 1986Ni02. T _{1/2} : 1972Ny01 from ce(K)(296γ,590γ) decay curves (s) for ten half-lives. Others: 8.5 h 5 (1970Bo22), 8.27 h 9 (1968Pa24), 8.4 h 3 (1965Ev04), 8.5 h 3 (1956Ka25). J ^π : L(d,t)=2, log ft=5.9 to 7/2 ⁺ . |
| 80.3 1 | (3/2) ⁺ | 4.8 ns 5 | A C | T _{1/2} : tentative assignment (1978Ha11) 80γ(t). J ^π : 80γ is M1+E2; syst with first-excited states of ¹⁰³ Pd, ¹⁰⁵ Pd. |
| 261.0 [@] 1 | 7/2 ⁺ | | ABCd | J ^π : L(³ He,α)=L(d,t)=4. M1 γ to 5/2 ⁺ . |
| 274.7 2 | (7/2,9/2 ⁺) | | A Cd | J ^π : possible ε feeding from 9/2 ⁺ . |
| 400 15 | 1/2 ⁺ | | D | J ^π : L(d,t)=0. |
| 588.0 2 | (7/2 ⁺) | | ABCD | J ^π : L(d,t)=2. |
| 600 15 | 3/2 ⁺ ,5/2 ⁺ | | D | J ^π : L(d,t)=2. |
| 623.6 2 | (7/2 ⁺) | | A | J ^π : log ft=6.7 from 9/2 ⁺ , and γ to (3/2) ⁺ . |
| 667.3 [#] 2 | 9/2 ⁺ | | ABC | J ^π : E2 γ to 5/2 ⁺ , 667γ(θ). |
| 730 15 | 1/2 ⁺ | | D | J ^π : L(d,t)=0. |
| 734.7 2 | (7/2 ⁺) | | A | J ^π : log ft=6.9 from 9/2 ⁺ and γ to (3/2) ⁺ . |
| 745 1 | | | C | J ^π : γ from 9/2 ⁺ , γ to 5/2 ⁺ . |
| 938.9 [@] 2 | 11/2 ⁺ | | ABC | J ^π : E2 γ to 7/2 ⁺ , 677γ(θ). |
| 980 15 | 3/2 ⁺ ,5/2 ⁺ | | D | J ^π : L(d,t)=2. |
| 1081.7 5 | 3/2 ⁺ ,5/2 ⁺ | | A D | XREF: D(1060). J ^π : L(d,t)=2, above 1000 keV, (d,t) energies seem 30 keV too low. |
| 1173.9 2 | (7/2) ⁺ | | A | J ^π : from γ decay to (3/2) ⁺ state and log ft=5.2 via 9/2 ⁺ parent. |
| 1199.3 2 | | | A | |
| 1205.3 2 | (7/2 ⁺) | | A | J ^π : From γ decay to (3/2) ⁺ state and log ft=5.6 via 9/2 ⁺ parent. |
| 1250 15 | 3/2 ⁺ ,5/2 ⁺ | | D | J ^π : L(d,t)=2, the energy could be higher, see 1081 level. |
| 1265.6 3 | (11/2 ⁺) | | AB | J ^π : stretched Q to (7/2 ⁺). |
| 1337.4 [‡] 1 | 11/2 ⁻ | | BCD | XREF: D(1310). J ^π : E1 γ to 9/2 ⁺ , γ to 11/2 ⁺ , L(³ He,α)=5. E(level): fits regional trends of 11/2 ⁻ isomers. |
| 1380 15 | 1/2 ⁺ | | D | J ^π : L(d,t)=0. |
| 1403.5 [#] 2 | 13/2 ⁺ | | ABC | J ^π : E2 γ to 9/2 ⁺ , 736γ(Θ). |
| 1534.5 2 | (7/2 ⁺) | | A | J ^π : from γ decay to 3/2 ⁺ state and log ft=6.2 via 9/2 ⁺ parent. |
| 1560.5 3 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | | A | J ^π : log ft=5.8 from 9/2 ⁺ parent. |
| 1614.6 6 | | | A | |

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

¹⁰¹Pd Levels (continued)

| E(level) | J ^π † | XREF | Comments |
|------------|--|------|---|
| 1816.6@ 2 | 15/2 ⁺ | B | J ^π : E2 γ to 13/2 ⁺ , 877γ(θ). |
| 1823.6 6 | | A | |
| 1892.9‡ 2 | 15/2 ⁻ | BC | J ^π : E2 γ to 11/2 ⁻ , 555γ(θ). |
| 1932.9 6 | | A | |
| 1981.7? 9 | | A | |
| 2041.6 3 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | A | J ^π : log ft=5.8 from 9/2 ⁺ parent. |
| 2050 15 | 1/2 ⁻ ,3/2 ⁻ | D | J ^π : L(d,t)=1. |
| 2063.0 5 | (15/2 ⁺) | B | J ^π : γ's to 13/2 ⁺ , 11/2 ⁺ , stretched Q to (11/2 ⁺). |
| 2141 2 | (15/2 ⁺) | CD | J ^π : from L(³ He,αγ)=4,5 and L(d,t)=(4,5). γ to 15/2 ⁻ . 1985Sa24 in suggest that the decay only to 15/2 ⁻ implies a J ^π higher than that allowed by the L value (via one step process) and that the excitation might proceed by two-step processes; however, if the (d,t) peak corresponds to this level, the agreement in the L values is correct. |
| 2207.5# 2 | 17/2 ⁺ | B | J ^π : E2 γ to 13/2 ⁺ , 804γ(θ). |
| 2220.3 4 | (7/2 ⁺ ,9/2 ⁺) | A D | XREF: D(2180). J ^π : γ to 7/2 ⁺ , log ft=5.9 from 9/2 ⁺ , L=4 (d,t). |
| 2221 2 | 7/2 ⁺ ,9/2,11/2 ⁻ | C | J ^π : L=(4,5) in (³ He,αγ), γ to 9/2 ⁺ . |
| 2245.4 8 | (13/2) | B | J ^π : γ to 11/2 ⁻ , non-yrast member of rotational band (1980Po06). |
| 2265.3 6 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | A | J ^π : log ft=5.8 from 9/2 ⁺ parent; however, the feeding is weak. |
| 2290 15 | 1/2 ⁻ ,3/2 ⁻ | D | J ^π : L(d,t)=1. |
| 2291 1 | (17/2) | B | J ^π : γ to 13/2 ⁺ , systematics. |
| 2300.2 6 | | AB | |
| 2393.4 9 | 9/2 ⁺ | A CD | XREF: D(2360). J ^π : L=4 (³ He,α), 7/2 ⁺ γ to 13/2 ⁺ . |
| 2512.0 9 | (15/2) | B | J ^π : γ to 15/2 ⁺ , non-yrast member of rotational band (1980Po06). |
| 2641.1‡ 3 | 19/2 ⁻ | B | J ^π : E2 γ to 15/2 ⁻ , 748γ(θ). |
| 2641.2 3 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | A | J ^π : log ft=5.6 from 9/2 ⁺ parent; however, the feeding is weak. |
| 2721.0@ 10 | 19/2 ⁺ | B | J ^π : E2 γ to 15/2 ⁺ , 904γ(θ). |
| 2802.8 5 | | A | |
| 2864.6# 2 | 21/2 ⁺ | B | J ^π : E2 γ to 17/2 ⁺ , 657γ(θ). |
| 2891.0 5 | | A | |
| 2895.8 5 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | A | J ^π : log ft=5.3 from 9/2 ⁺ parent; however, the feeding is weak. |
| 2960.1 5 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | A | J ^π : log ft=5.6 from 9/2 ⁺ parent; however, the feeding is weak. |
| 2983 1 | (17/2 ⁻) | B | |
| 3034.6 7 | | B | |
| 3227.5 5 | (21/2 ⁺) | B | J ^π : γ's to 21/2 ⁺ and 17/2 ⁺ . |
| 3304.7 9 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | A | J ^π : log ft=5.6 from 9/2 ⁺ parent; however, the feeding is weak. |
| 3327.1 8 | (19/2 ⁻) | B | |
| 3404.3 8 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | A | J ^π : log ft=5.6 from 9/2 ⁺ parent; however, the feeding is weak. |
| 3532.2‡ 3 | 23/2 ⁻ | B | J ^π : E2 γ to 19/2 ⁻ , 891γ(θ). |
| 3625.4@ 3 | (23/2 ⁺) | B | J ^π : E2 γ to 21/2 ⁺ , 904γ(θ). |
| 3812.0# 3 | 25/2 ⁺ | B | J ^π : E2 γ to 21/2 ⁺ , 947γ(θ). |
| 4443.0‡ 6 | 27/2 ⁻ | B | J ^π : E2 γ to 23/2 ⁻ , 910γ(θ). |
| 4896.4# 5 | (29/2 ⁺) | B | J ^π : E2 γ to 25/2 ⁺ , 1084γ(θ). |
| 5414.5‡ 6 | (31/2 ⁻) | B | J ^π : 971 could be an E2. |
| 6488.2 10 | | B | |

† ΔJ of intraband and interband transitions are deduced from γ-ray linear pol and γ(θ) in (¹²C,3nγ) study.

‡ Band(A): ΔJ=2 sequence built on 11/2⁻ state interpreted as Coriolis-decoupled band with K=1/2 dominant.

Band(B): ΔJ=2 sequence built on 5/2⁺ g.s. interpreted as rotation-aligned (n) d5/2 coupled to ¹⁰⁰Pd Co.

@ Band(C): ΔJ=2 sequence built on 7/2⁺ state interpreted as rotation-aligned (n) g7/2 coupled to ¹⁰⁰Pd Co.

Adopted Levels, Gammas (continued)

| E _i (level) | J _i ^π | <u>γ(¹⁰¹Pd)</u> | | | | | | | Comments |
|------------------------|------------------------------------|-----------------------------|-----------------------------|----------------|-----------------------------|--------------------|--------------|----------------|--|
| | | E _γ [†] | I _γ [†] | E _f | J _f ^π | Mult. [‡] | δ | α [#] | |
| 80.3 | (3/2) ⁺ | 80.26 12 | 100 | 0.0 | 5/2 ⁺ | M1+E2 | +0.41 +11-12 | | B(M1)(W.u.)=0.0037 6; B(E2)(W.u.)=9.E+1 5 |
| 261.0 | 7/2 ⁺ | 180.5 5 | 0.5 2 | 80.3 | (3/2) ⁺ | | | | |
| | | 260.97 5 | 100 20 | 0.0 | 5/2 ⁺ | M1 | | 0.028 | |
| 274.7 | (7/2,9/2 ⁺) | 274.68 15 | 100 | 0.0 | 5/2 ⁺ | | | | |
| 588.0 | (7/2 ⁺) | 326.91 15 | 18.9 16 | 261.0 | 7/2 ⁺ | | | | I _γ : from ε decay. I _γ =33 in (¹² C,3nγ). Also placed from 1266 in (¹² C,3nγ). If branching is correct, then I _γ (327γ from 588 in ε decay)=17.4 16. |
| | | 507.6 4 | 20 5 | 80.3 | (3/2) ⁺ | | | | |
| | | 588.00 15 | 100 5 | 0.0 | 5/2 ⁺ | | | | |
| 623.6 | (7/2 ⁺) | 543.32 15 | 100 7 | 80.3 | (3/2) ⁺ | | | | |
| | | 623.58 15 | 33.4 23 | 0.0 | 5/2 ⁺ | | | | |
| 667.3 | 9/2 ⁺ | 406.29 5 | 7.1 9 | 261.0 | 7/2 ⁺ | M1(+E2) | +0.05 5 | | |
| | | 667.23 5 | 100 3 | 0.0 | 5/2 ⁺ | E2 | | | |
| 734.7 | (7/2 ⁺) | 459.9 3 | 11.3 16 | 274.7 | (7/2,9/2 ⁺) | | | | |
| | | 654.4 2 | 48 3 | 80.3 | (3/2) ⁺ | | | | |
| | | 734.7 2 | 100 8 | 0.0 | 5/2 ⁺ | | | | |
| 745 | | 484 1 | 100 | 261.0 | 7/2 ⁺ | | | | |
| 938.9 | 11/2 ⁺ | 271.7 1 | 5 3 | 667.3 | 9/2 ⁺ | | | | |
| | | 677.9 1 | 100 11 | 261.0 | 7/2 ⁺ | E2 | | | |
| 1081.7 | 3/2 ⁺ ,5/2 ⁺ | 494.0 5 | 100 20 | 588.0 | (7/2 ⁺) | | | | |
| | | 806.9 5 | 40 12 | 274.7 | (7/2,9/2 ⁺) | | | | |
| 1173.9 | (7/2) ⁺ | 439.2 2 | 31.9 11 | 734.7 | (7/2 ⁺) | | | | |
| | | 506.6 3 | 6.5 12 | 667.3 | 9/2 ⁺ | | | | |
| | | 550.2 2 | 4.4 5 | 623.6 | (7/2 ⁺) | | | | |
| | | 585.9 4 | 12 3 | 588.0 | (7/2 ⁺) | | | | |
| | | 899.4 2 | 5.4 6 | 274.7 | (7/2,9/2 ⁺) | | | | |
| | | 912.9 2 | 6.5 6 | 261.0 | 7/2 ⁺ | | | | |
| | | 1093.6 2 | 29.4 12 | 80.3 | (3/2) ⁺ | | | | |
| | | 1173.9 2 | 100 3 | 0.0 | 5/2 ⁺ | | | | |
| 1199.3 | | 532.0 3 | 23 4 | 667.3 | 9/2 ⁺ | | | | |
| | | 575.6 2 | 26 3 | 623.6 | (7/2 ⁺) | | | | |
| | | 611.3 2 | 48 5 | 588.0 | (7/2 ⁺) | | | | |
| | | 938.3 2 | 100 8 | 261.0 | 7/2 ⁺ | | | | |
| 1205.3 | (7/2 ⁺) | 470.6 3 | 12 2 | 734.7 | (7/2 ⁺) | | | | |
| | | 537.9 2 | 53 3 | 667.3 | 9/2 ⁺ | | | | |
| | | 581.3 5 | 8 2 | 623.6 | (7/2 ⁺) | | | | |
| | | 617.6 3 | 6 2 | 588.0 | (7/2 ⁺) | | | | |
| | | 930.5 3 | 12 2 | 274.7 | (7/2,9/2 ⁺) | | | | |
| | | 944.3 2 | 44 4 | 261.0 | 7/2 ⁺ | | | | |
| | | 1125.3 3 | 16 3 | 80.3 | (3/2) ⁺ | | | | |
| | | 1205.3 2 | 100 4 | 0.0 | 5/2 ⁺ | | | | |

Adopted Levels, Gammas (continued)

| E _i (level) | J _i ^π | γ(¹⁰¹ Pd) (continued) | | | | | | Comments |
|------------------------|--|-----------------------------------|-----------------------------|----------------|-----------------------------|--------------------|----------|--|
| | | E _γ [†] | I _γ [†] | E _f | J _f ^π | Mult. [‡] | δ | |
| 1265.6 | (11/2 ⁺) | 327 1 | 11 1 | 938.9 | 11/2 ⁺ | | | I _γ : from I _γ /I _γ (598+678) in (¹² C,3n _γ) and adopted I _γ (598+678γ's). |
| | | 598.2 2 | 53 4 | 667.3 | 9/2 ⁺ | | | |
| 1337.4 | 11/2 ⁻ | 677.7 2 | 100 9 | 588.0 | (7/2 ⁺) | Q | | |
| | | 398.56 7 | 6.0 22 | 938.9 | 11/2 ⁺ | | | |
| 1403.5 | 13/2 ⁺ | 670.17 5 | 100 9 | 667.3 | 9/2 ⁺ | E1 | | |
| | | 138 1 | 2.1 2 | 1265.6 | (11/2 ⁺) | | | |
| 1534.5 | (7/2 ⁺) | 464.5 2 | 9 3 | 938.9 | 11/2 ⁺ | (M1+E2) | +0.18 12 | |
| | | 736.3 2 | 100 10 | 667.3 | 9/2 ⁺ | E2 | | |
| | | 799.7 3 | 67 6 | 734.7 | (7/2 ⁺) | | | |
| | | 867.2 3 | 63 14 | 667.3 | 9/2 ⁺ | | | |
| 1560.5 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | 910.8 5 | 14 6 | 623.6 | (7/2 ⁺) | | | |
| | | 1454.0 3 | 100 18 | 80.3 | (3/2 ⁺) | | | |
| | | 386.7 4 | 21 3 | 1173.9 | (7/2 ⁺) | | | |
| | | 825.9 3 | 22 4 | 734.7 | (7/2 ⁺) | | | |
| 1614.6 | 15/2 ⁺ | 893.2 2 | 100 9 | 667.3 | 9/2 ⁺ | | | |
| | | 1299.5 2 | 83 7 | 261.0 | 7/2 ⁺ | | | |
| | | 1353.6 3 | 100 | 261.0 | 7/2 ⁺ | | | |
| | | 877.67 5 | 100 | 938.9 | 11/2 ⁺ | E2 | | |
| 1816.6 | 15/2 ⁺ | 420.1 4 | 100 | 1403.5 | 13/2 ⁺ | | | |
| 1823.6 | 15/2 ⁻ | 490 1 | 6.4 7 | 1403.5 | 13/2 ⁺ | | | |
| 1892.9 | | 555.54 5 | 100 10 | 1337.4 | 11/2 ⁻ | E2 | | |
| 1932.9 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | 1671.9 4 | 100 | 261.0 | 7/2 ⁺ | | | |
| 1981.7? | | 577.9 5 | 100 | 1403.5 | 13/2 ⁺ | | | |
| 2041.6 | | 1306.7 5 | 100 14 | 734.7 | (7/2 ⁺) | | | |
| | | 1418.1 2 | 57 11 | 623.6 | (7/2 ⁺) | | | |
| 2063.0 | (15/2 ⁺) | 2041.8 2 | 84 6 | 0.0 | 5/2 ⁺ | | | |
| | | 660.0 7 | 13.6 14 | 1403.5 | 13/2 ⁺ | | | |
| 2207.5 | 17/2 ⁺ | 797.0 7 | 100 10 | 1265.6 | (11/2 ⁺) | Q | | |
| | | 390.90 7 | 6 3 | 1816.6 | 15/2 ⁺ | (M1+E2) | -0.02 4 | |
| 2220.3 | (7/2 ⁺ ,9/2 ⁺) | 804.02 5 | 100 8 | 1403.5 | 13/2 ⁺ | E2 | | |
| | | 1632.9 6 | 100 33 | 588.0 | (7/2 ⁺) | | | |
| 2221 | 7/2 ⁺ ,9/2,11/2 ⁻ | 1959.0 3 | 52 17 | 261.0 | 7/2 ⁺ | | | |
| | | 1554 1 | 100 | 667.3 | 9/2 ⁺ | | | |
| 2245.4 | (13/2) | 908.0 7 | 100 | 1337.4 | 11/2 ⁻ | | | |
| 2265.3 | (7/2 ⁺ ,9/2 ⁺ ,11/2 ⁺) | 1326.1 5 | 100 15 | 938.9 | 11/2 ⁺ | | | |
| | | 1641.8 3 | 24 5 | 623.6 | (7/2 ⁺) | | | |
| 2291 | (17/2) | 887 | 100 | 1403.5 | 13/2 ⁺ | | | |
| 2300.2 | 9/2 ⁺ | 1632.8 4 | 100 5 | 667.3 | 9/2 ⁺ | | | |
| 2393.4 | | 988 2 | 8 4 | 1403.5 | 13/2 ⁺ | | | |

E_γ: the evaluator assumes that the 2396 in (³He,α_γ) corresponds to the 2393 level in ε decay. So the 991,1457,1729,1808 are

Adopted Levels, Gammas (continued)

$\gamma(^{101}\text{Pd})$ (continued)

| $E_i(\text{level})$ | J_i^π | E_γ^\dagger | I_γ^\dagger | E_f | J_f^π | Mult. [‡] | δ | Comments |
|---------------------|--|--------------------|--------------------|--------|----------------------|--------------------|------------|--|
| 2393.4 | 9/2 ⁺ | 1454.2 | 26.8 | 938.9 | 11/2 ⁺ | | | lowered by 3 keV to agree with the ϵ decay E_γ value for 2131.8. |
| | | 1726.2 | 9.5 | 667.3 | 9/2 ⁺ | | | |
| | | 1805.2 | 16.8 | 588.0 | (7/2 ⁺) | | | |
| | | 2131.8 | 100.20 | 261.0 | 7/2 ⁺ | D+Q | +0.34 +3-5 | |
| 2512.0 | (15/2) | 619.0 | 7 | 1892.9 | 15/2 ⁻ | | | |
| 2641.1 | 19/2 ⁻ | 748.2 | 2 | 1892.9 | 15/2 ⁻ | E2 | | |
| 2641.2 | (7/2 ⁺ , 9/2 ⁺ , 11/2 ⁺) | 2053.1 | 3 | 588.0 | (7/2 ⁺) | | | |
| 2721.0 | 19/2 ⁺ | 904.4 | 10 | 1816.6 | 15/2 ⁺ | E2 | | |
| 2802.8 | | 1399.3 | 5 | 1403.5 | 13/2 ⁺ | | | |
| 2864.6 | 21/2 ⁺ | 657.07 | 5 | 2207.5 | 17/2 ⁺ | E2 | | |
| 2891.0 | | 1487.5 | 4 | 1403.5 | 13/2 ⁺ | | | |
| 2895.8 | (7/2 ⁺ , 9/2 ⁺ , 11/2 ⁺) | 2307.8 | 3 | 588.0 | (7/2 ⁺) | | | |
| | | 2635.1 | 5 | 261.0 | 7/2 ⁺ | | | |
| 2960.1 | (7/2 ⁺ , 9/2 ⁺ , 11/2 ⁺) | 2699.1 | 3 | 261.0 | 7/2 ⁺ | | | |
| 2983 | (17/2 ⁻) | 1090 | 100 | 1892.9 | 15/2 ⁻ | | | |
| 3034.6 | | 170.0 | 7 | 2864.6 | 21/2 ⁺ | | | |
| 3227.5 | (21/2 ⁺) | 363 | 1 | 2864.6 | 21/2 ⁺ | | | |
| | | 1020 | 1 | 2207.5 | 17/2 ⁺ | | | |
| 3304.7 | (7/2 ⁺ , 9/2 ⁺ , 11/2 ⁺) | 1901.2 | 5 | 1403.5 | 13/2 ⁺ | | | |
| 3327.1 | (19/2 ⁻) | 686 | 1 | 2641.1 | 19/2 ⁻ | | | |
| 3404.3 | (7/2 ⁺ , 9/2 ⁺ , 11/2 ⁺) | 3143.3 | 8 | 261.0 | 7/2 ⁺ | | | |
| 3532.2 | 23/2 ⁻ | 891.04 | 5 | 2641.1 | 19/2 ⁻ | E2 | | |
| 3625.4 | (23/2 ⁺) | 904.4 | 10 | 2721.0 | 19/2 ⁺ | E2 | | |
| 3812.0 | 25/2 ⁺ | 947.47 | 5 | 2864.6 | 21/2 ⁺ | E2 | | |
| 4443.0 | 27/2 ⁻ | 910.78 | 10 | 3532.2 | 23/2 ⁻ | (E2) | | |
| 4896.4 | (29/2 ⁺) | 1084.4 | 2 | 3812.0 | 25/2 ⁺ | (E2) | | |
| 5414.5 | (31/2 ⁻) | 971.56 | 10 | 4443.0 | 27/2 ⁻ | | | |
| 6488.2 | | 1073.7 | 5 | 5414.5 | (31/2 ⁻) | | | |

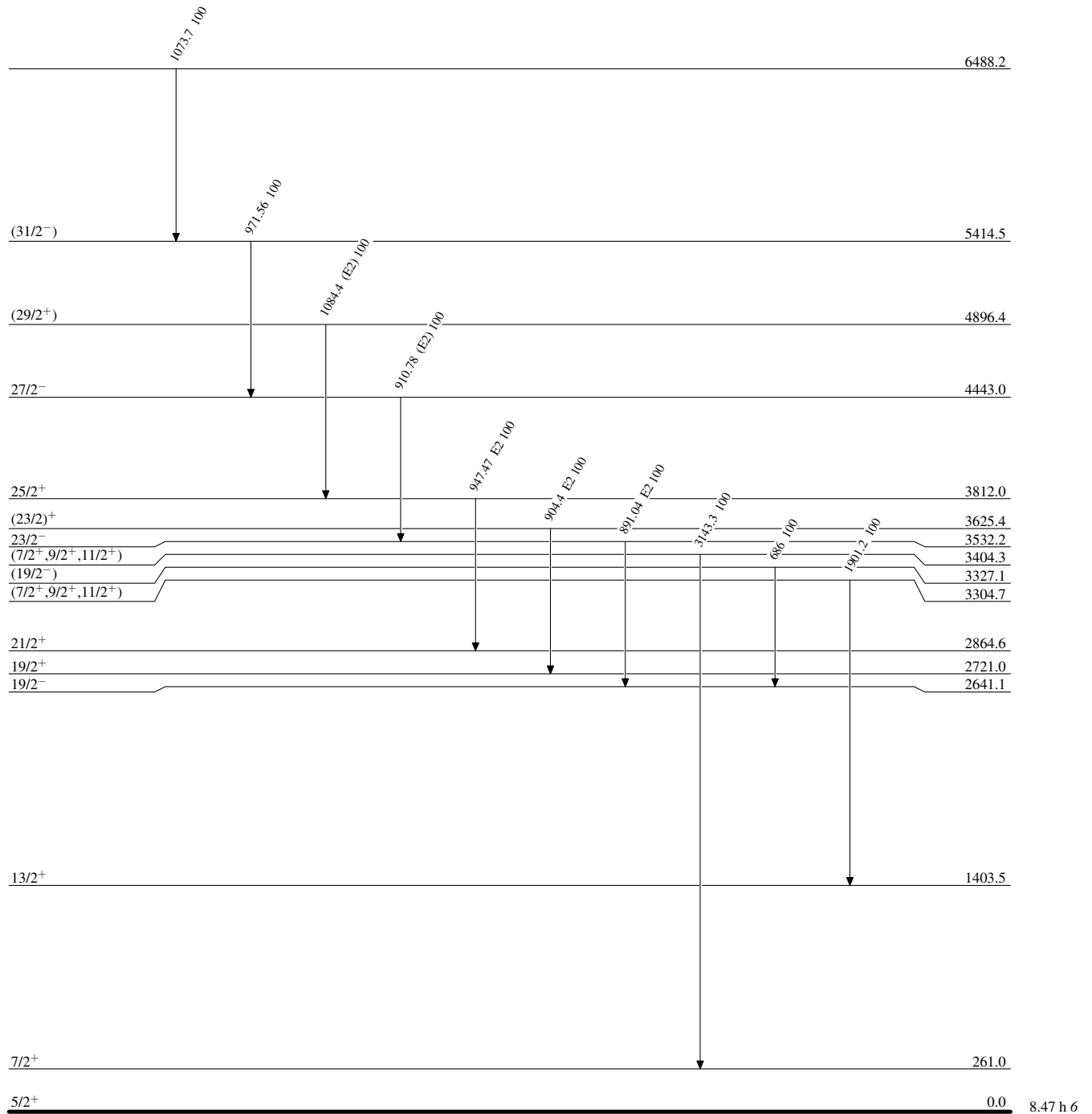
[†] Weighted average of all available data.

[‡] From ¹⁰¹Ag ϵ decay and ⁹²Zr(¹²C, 3n γ).

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

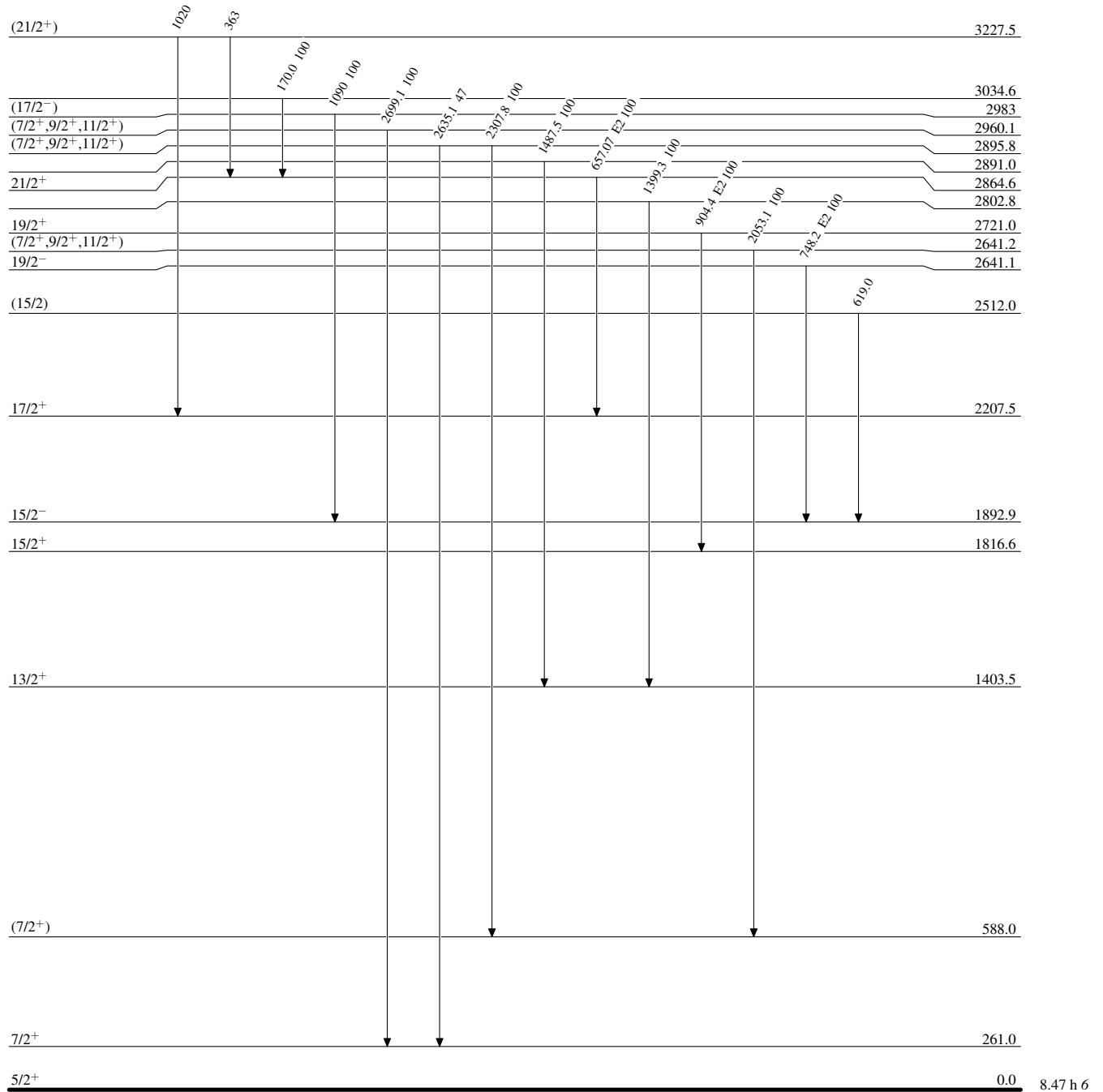
Adopted Levels, Gammas**Level Scheme**

Intensities: Relative photon branching from each level



Adopted Levels, Gammas**Level Scheme (continued)**

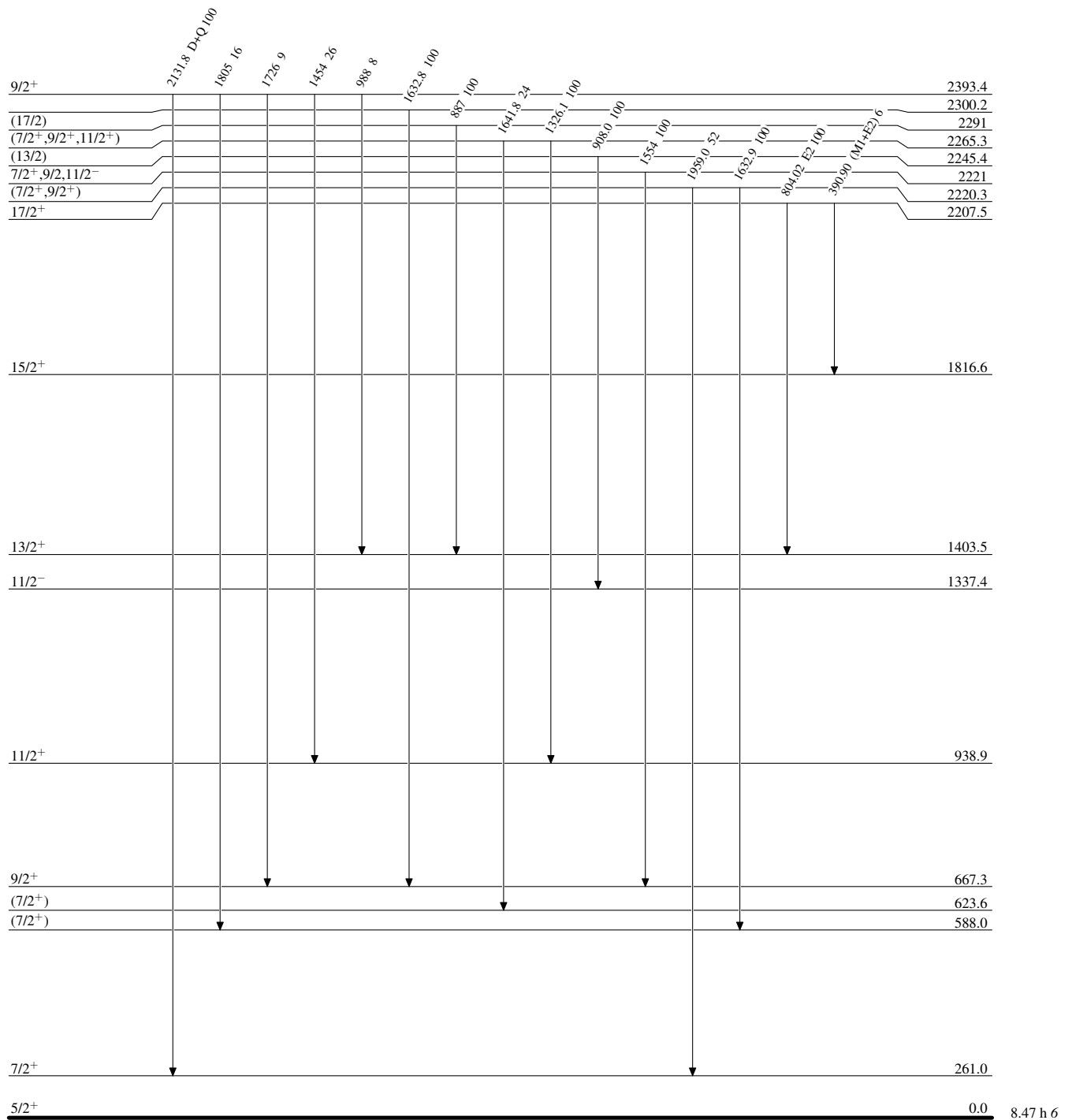
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

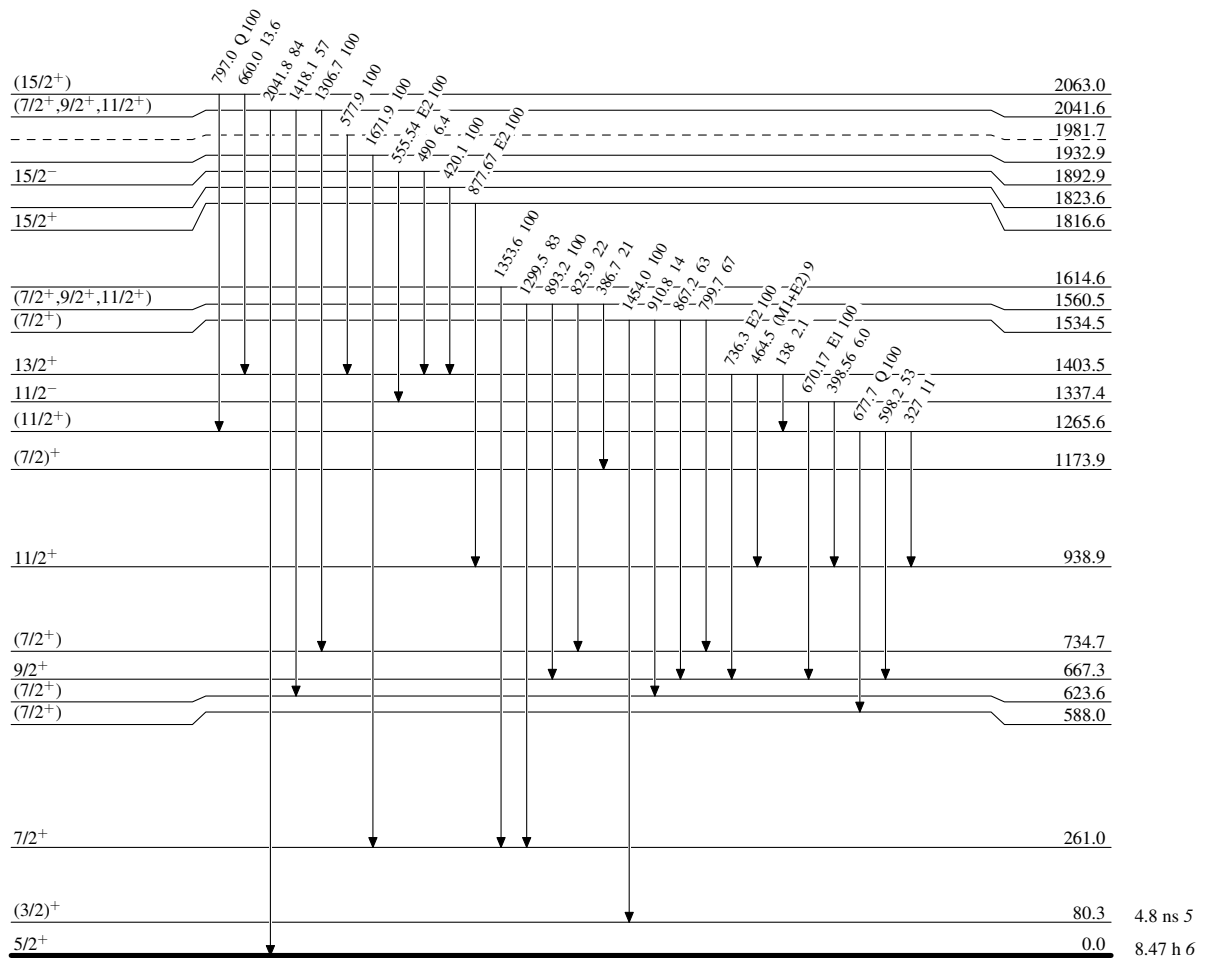
Level Scheme (continued)

Intensities: Relative photon branching from each level



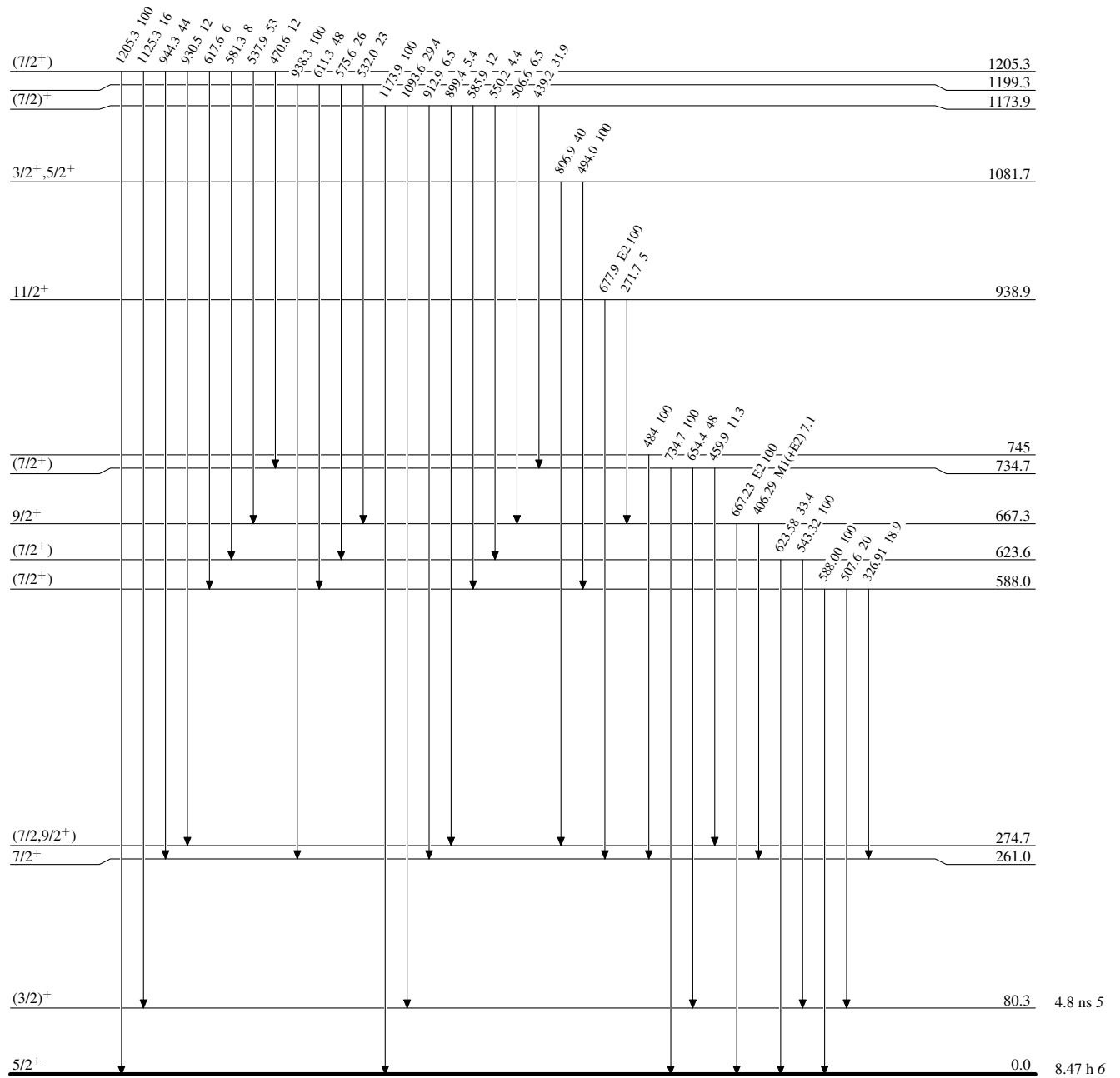
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level

 $^{101}_{46}\text{Pd}_{55}$

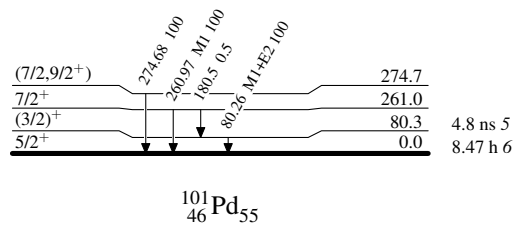
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level

 $^{101}_{46}\text{Pd}_{55}$

Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level

 $^{101}_{46}\text{Pd}_{55}$

Adopted Levels, Gammas

Band(A): $\Delta J=2$ sequence
built on $11/2^-$ state
interpreted as
Coriolis-decoupled band
with $K=1/2$ dominant

$(31/2^-)$ 5414.5

972
 $27/2^-$ 4443.0

911
 $23/2^-$ 3532.2

891
 $19/2^-$ 2641.1

748
 $15/2^-$ 1892.9

556
 $11/2^-$ 1337.4

Band(B): $\Delta J=2$ sequence
built on $5/2^+$ g.s.
interpreted as
rotation-aligned (n)
 $d5/2$ coupled to ^{100}Pd
Co

$(29/2^+)$ 4896.4

1084
 $25/2^+$ 3812.0

947
 $21/2^+$ 2864.6

657
 $17/2^+$ 2207.5

804
 $13/2^+$ 1403.5

736
 $9/2^+$ 667.3

667
 $5/2^+$ 0.0

Band(C): $\Delta J=2$ sequence
built on $7/2^+$ state
interpreted as
rotation-aligned (n)
 $g7/2$ coupled to ^{100}Pd
Co

$(23/2^+)$ 3625.4

904
 $19/2^+$ 2721.0

904
 $15/2^+$ 1816.6

878
 $11/2^+$ 938.9

678
 $7/2^+$ 261.0

$^{101}_{46}\text{Pd}_{55}$