

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin, E. A. Mccutchan		NDS 151, 334 (2018)	30-Jun-2018

Q(β⁻)=-6948 33; S(n)=10408 36; S(p)=1248 31; Q(α)=4676 40 [2017Wa10](#)

S(2n)=18983.7 30; S(2p)=5538 40 ([2017Wa10](#)).

Identification: excitation functions for ¹³⁹La(³⁶Ar,xn), comparison of γ spectra with known γ's for ¹⁷⁰Re and ¹⁷²Re; γX coin ([1987Ru05](#)). Other: [1987Sz03](#).

α: [Additional information 1](#).

¹⁷¹Re Levels

Cross Reference (XREF) Flags

A	¹⁷⁵ Ir α decay	D	¹⁷¹ Os ε decay
B	¹⁴⁴ Sm(³⁰ Si,p2nγ)	E	¹²⁰ Sn(⁵⁵ Mn,4nγ)
C	¹²³ Sb(⁵² Cr,4nγ)		

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0 [‡]	(9/2 ⁻)	15.2 s 4	ABCDE	$\% \epsilon + \% \beta^+ = 100$ α decay not observed; HF≈4 if $\% \alpha \approx 3 \times 10^{-5}$ and $r_0(^{167}\text{Ta}) = 1.56$ (based on r_0 for ¹⁶⁶ W, ¹⁶⁸ W, ¹⁶⁶ Os, ¹⁶⁸ Os in 1998Ak04). J ^π : see 0.0 level in ¹⁷¹ W Adopted Levels. T _{1/2} : from 1987Ru05 . Other value: <20 s (1987Sz03).
157.09 [#] 15	(11/2 ⁻)		BC E	J ^π : D 157γ to (9/2 ⁻), band assignment.
189.9 [@] 3	(5/2 ⁻)		ABCDE	XREF: B(0.0+X)C(0.0+X). J ^π : 189.8γ to (9/2 ⁻), direct feeding from (5/2 ⁻) parent in ε decay.
193.3 6			E	
232.2 ^e 4	(5/2 ⁺)		BC E	XREF: B(42.2+X)C(41.1+X).
258.6 ^g 6	(3/2 ⁺)		E	
285.3 [@] 3	(9/2 ⁻)		BC E	XREF: B(95.7+X)C(95.9+X).
301.2 ^{&} 4	(3/2 ⁻)		E	
380.90 [‡] 15	(13/2 ⁻)		BC E	J ^π : D 223.8γ to (11/2 ⁻); band assignment.
382.4 ^f 4	(7/2 ⁺)		BC E	XREF: B(192.6+X)C(191.8+X). J ^π : D 150.2γ to (5/2 ⁺); band assignment.
447.8 ^{&} 3	(7/2 ⁻)		E	J ^π : 146.5γ to (3/2 ⁻), 162.1γ to (9/2 ⁻); band assignment.
514.4 [@] 3	(13/2 ⁻)		BC E	J ^π : Q 229.1γ to (9/2 ⁻); band assignment.
515.9 10	(3/2 ⁻)		D	J ^π : 326γ to (5/2 ⁻), feeding from (5/2 ⁻) parent in ε decay; band assignment.
532.2 ^g 5	(7/2 ⁺)		E	J ^π : 273.6γ to (3/2 ⁺); band assignment.
554.1 ^e 4	(9/2 ⁺)		BC E	J ^π : D 171.6γ to (7/2 ⁺); band assignment.
576.3 ^l 14	(3/2 ⁺)		BC	XREF: B(0.0+Y).
614.41 [#] 18	(15/2 ⁻)		BC E	J ^π : Q 457.4γ to (11/2 ⁻); band assignment.
700.8 ^{&} 3	(11/2 ⁻)		E	J ^π : 253.0γ to (7/2 ⁻); band assignment.
758.6 ^f 4	(11/2 ⁺)		BC E	J ^π : (Q) 376.2γ to (7/2 ⁺); band assignment.
850.2 ^l 13	(7/2 ⁺)		BC	XREF: B(273.9+Y). J ^π : 273.9γ to (3/2 ⁺); band assignment.
869.2 [@] 3	(17/2 ⁻)		BC E	J ^π : Q 354.8γ to (13/2 ⁻); band assignment.
894.28 [‡] 20	(17/2 ⁻)		BC E	J ^π : Q 513.5γ to (13/2 ⁻); band assignment.
894.9 6	(7/2 ⁻)		D	J ^π : 705.0γ to (5/2 ⁻).
909.9 ^g 5	(11/2 ⁺)		E	J ^π : Q 377.7γ to (7/2 ⁺); band assignment.
961.4 ^e 4	(13/2 ⁺)		BC E	J ^π : Q 407.3γ to (9/2 ⁺); band assignment.

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Adopted Levels, Gammas (continued) ^{171}Re Levels (continued)

E(level) [†]	J ^π	XREF	Comments
1065.2& 3	(15/2 ⁻)	E	J ^π : Q 364.3γ to (11/2 ⁻); band assignment.
1162.38# 22	(19/2 ⁻)	BC E	J ^π : Q 548.0γ to (15/2 ⁻); band assignment.
1186.5f 4	(15/2 ⁺)	BC E	J ^π : Q 427.9γ to (11/2 ⁺); band assignment.
1227.8l 13	(11/2 ⁺)	BC	XREF: B(651.5+Y). J ^π : 377.6γ to (7/2 ⁺); band assignment.
1305.5g 4	(15/2 ⁺)	E	J ^π : Q 395.6γ to (11/2 ⁺); band assignment.
1326.5@ 3	(21/2 ⁻)	BC E	J ^π : Q 457.4γ to (17/2 ⁻); band assignment.
1393.7e 4	(17/2 ⁺)	BC E	J ^π : Q 432.5γ to (13/2 ⁺); band assignment.
1424.4h 3	(17/2 ⁺)	BC E	J ^π : Q 463.1γ to (13/2 ⁺); band assignment.
1474.25‡ 23	(21/2 ⁻)	BC E	J ^π : Q 580.0γ to (17/2 ⁻); band assignment.
1521.9& 3	(19/2 ⁻)	E	J ^π : Q 456.7γ to (15/2 ⁻); band assignment.
1623.8l 9		C	
1631.9f 4	(19/2 ⁺)	BC E	J ^π : Q 445.4γ to (15/2 ⁺); band assignment.
1704.9g 4	(19/2 ⁺)	E	J ^π : Q 399.4γ to (15/2 ⁺); band assignment.
1733.5h 3	(21/2 ⁺)	BC E	J ^π : Q 309.1γ to (17/2 ⁺); band assignment.
1757.87# 24	(23/2 ⁻)	BC E	J ^π : Q 595.9γ to (19/2 ⁻); band assignment.
1862.0@ 3	(25/2 ⁻)	BC E	J ^π : Q 535.5γ to (21/2 ⁻); band assignment.
1865.0e 4	(21/2 ⁺)	BC E	J ^π : Q 471.3γ to (17/2 ⁺); band assignment.
2023.1l 9		C	
2043.7& 3	(23/2 ⁻)	E	J ^π : Q 521.7γ to (19/2 ⁻); band assignment.
2072.1‡ 3	(25/2 ⁻)	BC E	J ^π : Q 597.9γ to (21/2 ⁻); band assignment.
2105.4f 4	(23/2 ⁺)	BC E	J ^π : Q 473.4γ to (19/2 ⁺); band assignment.
2106.2 4	(23/2 ⁺)	BC	
2130.1g 4	(23/2 ⁺)	E	J ^π : (Q) 425.3γ to (19/2 ⁺); band assignment.
2139.1h 4	(25/2 ⁺)	BC E	J ^π : Q 405.7γ to (21/2 ⁺); band assignment.
2229.3e 4	(25/2 ⁺)	BC E	J ^π : D 123.7γ to (23/2 ⁺).
2312.9 9		C	
2343.5# 3	(27/2 ⁻)	BC E	J ^π : Q 585.6γ to (23/2 ⁻); band assignment.
2392.7f 4	(27/2 ⁺)	BC E	J ^π : D 163.2γ to (25/2 ⁺); band assignment.
2422.8l 13		C	
2445.1@ 4	(29/2 ⁻)	BC E	J ^π : Q 583.2γ to (25/2 ⁻); band assignment.
2481.0i 4	(25/2 ⁺)	E	J ^π : 341.9γ to (25/2 ⁺); band assignment.
2545.8‡ 3	(29/2 ⁻)	BC E	J ^π : Q 473.8γ to (25/2 ⁻); band assignment.
2572.0g 4	(27/2 ⁺)	E	J ^π : Q 441.9γ to (23/2 ⁺); band assignment.
2579.3& 4	(27/2 ⁻)	E	J ^π : Q 535.6γ to (23/2 ⁻); band assignment.
2593.5e 4	(29/2 ⁺)	BC E	J ^π : Q 364.0γ to (25/2 ⁺); band assignment.
2611.7h 4	(29/2 ⁺)	BC E	J ^π : Q 472.6γ to (25/2 ⁺); band assignment.
2704.7# 3	(31/2 ⁻)	BC E	J ^π : (D) 158.9γ to (29/2 ⁻), 361.3γ to (27/2 ⁻); band assignment.
2709.4k 5	(27/2 ⁺)	E	J ^π : 402.3γ from (33/2 ⁺); band assignment.
2742.1 9		C	
2831.1f 4	(31/2 ⁺)	BC E	J ^π : Q 438.4γ to (27/2 ⁺); band assignment.
2848.5l 17		C	
2881.3i 4	(29/2 ⁺)	E	J ^π : Q 400.2γ to (25/2 ⁺); band assignment.
2889.0‡ 3	(33/2 ⁻)	BC E	J ^π : Q 343.2γ to (29/2 ⁻); band assignment.
3007.7@ 4	(33/2 ⁻)	BC E	J ^π : Q 562.7γ to (29/2 ⁻); band assignment.
3008.1& 4	(31/2 ⁻)	E	J ^π : Q 429.0γ to (27/2 ⁻); band assignment.
3029.6 4		E	J ^π : 31/2 ⁻ proposed in $^{120}\text{Sn}(^{55}\text{Mn}, 4n\gamma)$.
3058.8g 4	(31/2 ⁺)	E	J ^π : Q 486.9γ to (27/2 ⁺); band assignment.

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Adopted Levels, Gammas (continued) ^{171}Re Levels (continued)

E(level) [†]	J ^π	XREF	Comments
3063.1 <i>4</i>		E	J ^π : 31/2 ⁺ proposed in $^{120}\text{Sn}(^{55}\text{Mn},4n\gamma)$.
3097.5 ^e <i>4</i>	(33/2 ⁺)	BC E	J ^π : Q 503.8γ to (29/2 ⁺); band assignment.
3106.5 [#] <i>3</i>	(35/2 ⁻)	BC E	J ^π : Q 401.7γ to (31/2 ⁻), band assignment.
3111.7 ^k <i>4</i>	(31/2 ⁺)	E	J ^π : (Q) 476.9γ from (35/2 ⁺); band assignment.
3141.3 ^h <i>4</i>	(33/2 ⁺)	BC E	J ^π : Q 529.5γ to (29/2 ⁺); band assignment.
3243.1 <i>13</i>		C	
3262.2 ^a <i>4</i>	(33/2 ⁻)	E	J ^π : Q 817.1γ to (29/2 ⁻).
3291.1 ^l <i>19</i>		C	
3316.6 <i>5</i>	(33/2 ⁺)	E	J ^π : 253.6γ to (31/2 ⁺).
3326.9 ⁱ <i>4</i>	(33/2 ⁺)	E	J ^π : Q 445.7γ to (29/2 ⁺); band assignment.
3354.8 [‡] <i>3</i>	(37/2 ⁻)	BC E	J ^π : Q 446.0γ to (33/2 ⁻); band assignment.
3387.8 ^f <i>4</i>	(35/2 ⁺)	BC E	J ^π : Q 556.5γ to (31/2 ⁺); band assignment.
3458.5 ^{&} <i>4</i>	(35/2 ⁻)	E	J ^π : Q 428.9γ to (31/2 ⁻); band assignment.
3518.7 [@] <i>4</i>	(37/2 ⁻)	BC E	J ^π : Q 511.2γ to (33/2 ⁻); band assignment.
3588.6 ^k <i>4</i>	(35/2 ⁺)	E	J ^π : Q 529.9γ to (31/2 ⁺); band assignment.
3597.9 ^g <i>4</i>	(35/2 ⁺)	E	J ^π : D 281.3γ to (33/2 ⁺); band assignment.
3635.9 [#] <i>3</i>	(39/2 ⁻)	BC E	J ^π : Q 529.3γ to (35/2 ⁻); band assignment.
3699.6 ^e <i>4</i>	(37/2 ⁺)	BC E	J ^π : 311.8γ to (35/2 ⁺), 602.0γ to (33/2 ⁺); band assignment.
3723.9 ^h <i>4</i>	(37/2 ⁺)	BC E	J ^π : Q 582.7γ to (33/2 ⁺), band assignment.
3828.6 <i>17</i>		C	
3847.1 ⁱ <i>4</i>	(37/2 ⁺)	E	J ^π : 520.2γ to (33/2 ⁺); band assignment.
3892.2 ^a <i>4</i>	(37/2 ⁻)	E	J ^π : Q 884.5γ to (33/2 ⁻); band assignment.
3937.3 [‡] <i>3</i>	(41/2 ⁻)	BC E	J ^π : Q 582.6γ to (37/2 ⁻); band assignment.
3958.7 ^{&} <i>4</i>	(39/2 ⁻)	E	J ^π : Q 500.3γ to (35/2 ⁻); band assignment.
4017.9 ^f <i>4</i>	(39/2 ⁺)	BC E	J ^π : Q 630.0γ to (35/2 ⁺); band assignment.
4069.1 [@] <i>4</i>	(41/2 ⁻)	BC E	J ^π : Q 550.5γ to (37/2 ⁻); band assignment.
4134.5 ^k <i>4</i>	(39/2 ⁺)	E	J ^π : 287.4γ to (37/2 ⁺), 536.5γ to (35/2 ⁺); band assignment.
4186.1 ^g <i>4</i>	(39/2 ⁺)	E	J ^π : Q 588.2γ to (35/2 ⁺); band assignment.
4222.0 ^b <i>4</i>	(39/2 ⁺)	E	J ^π : 582.3γ from (43/2 ⁺); band assignment.
4266.5 [#] <i>3</i>	(43/2 ⁻)	BC E	J ^π : Q 630.7γ to (39/2 ⁻); band assignment.
4341.6 ^e <i>4</i>	(41/2 ⁺)	BC E	J ^π : D(+Q) 323.7γ to (39/2 ⁺); band assignment.
4352.1 ^h <i>4</i>	(41/2 ⁺)	BC E	J ^π : Q 628.2γ to (37/2 ⁺); band assignment.
4390.9 <i>11</i>		C	
4434.3 ⁱ <i>4</i>	(41/2 ⁺)	E	J ^π : Q 587.2γ to (37/2 ⁺); band assignment.
4489.4 <i>19</i>		C	
4543.4 ^{&} <i>4</i>	(43/2 ⁻)	E	J ^π : Q 584.7γ to (39/2 ⁻); band assignment.
4585.6 ^a <i>4</i>	(41/2 ⁻)	E	J ^π : 693.4γ to (37/2 ⁻); band assignment.
4605.7 [‡] <i>3</i>	(45/2 ⁻)	BC E	J ^π : Q 668.4γ to (41/2 ⁻); band assignment.
4632.1 ^f <i>4</i>	(43/2 ⁺)	C E	J ^π : Q 614.1γ to (39/2 ⁺); band assignment.
4685.7 [@] <i>4</i>	(45/2 ⁻)	BC E	J ^π : Q 616.7γ to (41/2 ⁻); band assignment.
4728.7 ^k <i>4</i>	(43/2 ⁺)	E	J ^π : 594.2γ to (39/2 ⁺); band assignment.
4804.1 ^b <i>4</i>	(43/2 ⁺)	E	J ^π : 676γ from (47/2 ⁺); band assignment.
4812.0 ^d <i>4</i>	(43/2 ⁺)	E	J ^π : 590.3γ to (39/2 ⁺); band assignment.
4820.4 ^g <i>5</i>	(43/2 ⁺)	E	J ^π : Q 634.3γ to (39/2 ⁺); band assignment.
4898.3 ^e <i>4</i>	(45/2 ⁺)	C E	J ^π : Q 556.5γ to (41/2 ⁺); band assignment.
4964.9 ^h <i>4</i>	(45/2 ⁺)	C E	J ^π : Q 612.8γ to (41/2 ⁺); band assignment.
4967.5 [#] <i>3</i>	(47/2 ⁻)	BC E	J ^π : Q 701.2γ to (43/2 ⁻); band assignment.
5059.7 ^j <i>4</i>	(45/2 ⁺)	E	J ^π : Q 707.7γ to (41/2 ⁺); band assignment.

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Adopted Levels, Gammas (continued) ^{171}Re Levels (continued)

E(level) [†]	J ^π	XREF	Comments
5084.5 ^c 4	(45/2 ⁺)	E	J ^π : Q 650.4γ to (41/2 ⁺); band assignment.
5084.7 ⁱ 4	(45/2 ⁺)	E	J ^π : Q 650.4γ to (41/2 ⁺); band assignment.
5174.5 ^f 4	(47/2 ⁺)	C E	J ^π : D 276.1γ to (45/2 ⁺), 542.3γ to (43/2 ⁺); band assignment.
5203.6 ^{&} 5	(47/2 ⁻)	E	J ^π : Q 660.2γ to (43/2 ⁻); band assignment.
5211.4 22		C	
5270.2 ^a 5	(45/2 ⁻)	E	J ^π : 684.6γ to (41/2 ⁻); band assignment.
5330.4 [‡] 3	(49/2 ⁻)	BC E	J ^π : Q 724.7γ to (45/2 ⁻); band assignment.
5362.0 ^k 5	(47/2 ⁺)	E	J ^π : 633.3γ to (43/2 ⁺); band assignment.
5368.4 [@] 4	(49/2 ⁻)	BC E	J ^π : Q 682.9γ to (45/2 ⁻); band assignment.
5380.4 ^d 4	(47/2 ⁺)	E	J ^π : 568.5γ to (43/2 ⁺); band assignment.
5473.8 ^g 5	(47/2 ⁺)	E	J ^π : 653.4γ to (43/2 ⁺); band assignment.
5474.7 ^e 4	(49/2 ⁺)	C E	J ^π : D 300.1γ to (47/2 ⁺), 576.3γ to (45/2 ⁺); band assignment.
5479.8 ^b 4	(47/2 ⁺)	E	J ^π : D 794.1γ to (45/2 ⁻).
5570.7 ^h 4	(49/2 ⁺)	C E	J ^π : Q 603.5γ to (45/2 ⁺); band assignment.
5702.7 ^c 4	(49/2 ⁺)	E	J ^π : 618.2γ to (45/2 ⁺); band assignment.
5716.2 [#] 3	(51/2 ⁻)	C E	J ^π : Q 748.6γ to (47/2 ⁻); band assignment.
5741.4 ^j 4	(49/2 ⁺)	E	J ^π : Q 681.7γ to (45/2 ⁺); band assignment.
5795.1 ⁱ 4	(49/2 ⁺)	E	J ^π : Q 710.7γ to (45/2 ⁺); band assignment.
5804.3 ^f 4	(51/2 ⁺)	C E	J ^π : D 329.5γ to (49/2 ⁺), Q 629.7γ to (47/2 ⁺); band assignment.
5924.8 ^{&} 5	(51/2 ⁻)	E	J ^π : Q 721.2γ to (47/2 ⁻).
5974.5 ^a 5	(49/2 ⁻)	E	J ^π : 704.3 γ to (45/2 ⁻); band assignment.
5985.8 24		C	
6028.2 ^k 5	(51/2 ⁺)	E	J ^π : 666.2γ to (47/2 ⁺); band assignment.
6042.3 ^d 5	(51/2 ⁺)	E	J ^π : 339.4γ to (49/2 ⁺), 662.1γ to (47/2 ⁺); band assignment.
6092.2 [‡] 3	(53/2 ⁻)	C E	J ^π : D 376.0γ to (51/2 ⁻), Q 761.7γ to (49/2 ⁻); band assignment.
6113.7 [@] 3	(53/2 ⁻)	C E	J ^π : Q 745.3γ to (49/2 ⁻); band assignment.
6161.7 ^e 4	(53/2 ⁺)	C E	J ^π : D 357.3γ to (51/2 ⁺); band assignment.
6164.3 ^g 7	(51/2 ⁺)	E	J ^π : 690.5γ to (47/2 ⁺); band assignment.
6225.0 ^b 5	(51/2 ⁺)	E	J ^π : 745.2γ to (47/2 ⁺); band assignment.
6236.6 ^h 4	(53/2 ⁺)	C E	J ^π : Q 666.1γ to (49/2 ⁺); band assignment.
6403.8 ^c 5	(53/2 ⁺)	E	J ^π : 701.0γ to (49/2 ⁺); band assignment.
6451.7 ^j 5	(53/2 ⁺)	E	J ^π : Q 710.3γ to (49/2 ⁺); band assignment.
6507.0 [#] 4	(55/2 ⁻)	C E	J ^π : 790.8γ to (51/2 ⁻); band assignment.
6550.3 ^f 4	(55/2 ⁺)	C E	XREF: C(6551.5). J ^π : D 388.6γ to (53/2 ⁺); band assignment.
6550.8 ⁱ 4	(53/2 ⁺)	E	J ^π : 755.8γ to (49/2 ⁺); band assignment.
6698.2 ^{&} 6	(55/2 ⁻)	E	J ^π : Q 773.4γ to (51/2 ⁻) band assignment.
6733.9 ^k 6	(55/2 ⁺)	E	J ^π : 705.7γ to (51/2 ⁺); band assignment.
6743.2 ^a 7	(53/2 ⁻)	E	J ^π : 768.7γ to (49/2 ⁻); band assignment.
6775.2 ^d 6	(55/2 ⁺)	E	J ^π : 733.0γ to (51/2 ⁺); band assignment.
6888.8 [‡] 4	(57/2 ⁻)	C E	J ^π : Q 775.1γ to (53/2 ⁻); band assignment.
6903.6 ^g 9	(55/2 ⁺)	E	J ^π : 739.3γ to (51/2 ⁺); band assignment.
6921.0 [@] 4	(57/2 ⁻)	E	J ^π : Q 807.3γ to (53/2 ⁻); band assignment.
6953.0 ^h 4	(57/2 ⁺)	C E	J ^π : Q 716.5 γ to (53/2 ⁺); band assignment.
6969.0 ^e 4	(57/2 ⁺)	E	J ^π : Q 732.5γ to (53/2 ⁺); band assignment.
7049.9 ^b 5	(55/2 ⁺)	E	J ^π : 824.9γ to (53/2 ⁺); band assignment.
7164.3 ^c 6	(57/2 ⁺)	E	J ^π : 760.6γ to (53/2 ⁺); band assignment.
7204.9 ^j 5	(57/2 ⁺)	E	J ^π : 753.2γ to (53/2 ⁺); band assignment.

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Adopted Levels, Gammas (continued) ^{171}Re Levels (continued)

E(level) [†]	J ^π	XREF	Comments
7340.0 ⁱ 6	(57/2 ⁺)	E	J ^π : 789.2γ to (53/2 ⁺); band assignment.
7351.1 [#] 4	(59/2 ⁻)	E	J ^π : 844.1γ to (55/2 ⁻); band assignment.
7377.8 11	(58/2 ⁺)	C	J ^π : 827γ to (55/2 ⁺); band assignment.
7401.9 ^f 4	(59/2 ⁺)	E	J ^π : 851.2γ to (55/2 ⁺); band assignment.
7492.0 ^k 6	(59/2 ⁺)	E	J ^π : 758.1γ to (55/2 ⁺); band assignment.
7524.8 ^{&} 6	(59/2 ⁻)	E	J ^π : Q 826.6γ to (55/2 ⁻); band assignment.
7561.5 ^d 7	(59/2 ⁺)	E	J ^π : 786.2γ to (55/2 ⁺); band assignment.
7701.2 ^g 10	(59/2 ⁺)	E	J ^π : 797.6γ to (55/2 ⁺); band assignment.
7725.4 [‡] 4	(61/2 ⁻)	E	J ^π : 836.6γ to (57/2 ⁻); band assignment.
7733.5 ^h 4	(61/2 ⁺)	E	J ^π : Q 780.5γ to (57/2 ⁺); band assignment.
7797.2 [@] 4	(61/2 ⁻)	E	J ^π : 876.2γ to (57/2 ⁻); band assignment.
7853.4 ^e 5	(61/2 ⁺)	E	J ^π : 884.3γ to (57/2 ⁺); band assignment.
7925.9 ^b 11	(59/2 ⁺)	E	J ^π : 876γ to (55/2 ⁺); band assignment.
7975.3 ^c 7	(61/2 ⁺)	E	J ^π : 811.0γ to (57/2 ⁺); band assignment.
8011.7 ^j 7	(61/2 ⁺)	E	J ^π : 806.8γ to (57/2 ⁺); band assignment.
8173.9 ⁱ 8	(61/2 ⁺)	E	J ^π : 833.9γ to (57/2 ⁺); band assignment.
8261.8 [#] 5	(63/2 ⁻)	E	J ^π : 910.7γ to (59/2 ⁻); band assignment.
8311.6 ^k 6	(63/2 ⁺)	E	J ^π : 819.6γ to (59/2 ⁺); band assignment.
8330.7 ^f 6	(63/2 ⁺)	E	J ^π : 851.2γ to (59/2 ⁺); band assignment.
8399.4 ^d 9	(63/2 ⁺)	E	J ^π : 838γ to (59/2 ⁺); band assignment.
8408.9 ^{&} 6	(63/2 ⁻)	E	J ^π : Q 884.1γ to (59/2 ⁻); band assignment.
8550.4 ^g 11	(63/2 ⁺)	E	J ^π : 849.2γ to (59/2 ⁺); band assignment.
8560.2 ^h 4	(65/2 ⁺)	E	J ^π : 826.7γ to (61/2 ⁺); band assignment.
8611.5 [‡] 5	(65/2 ⁻)	E	J ^π : 886.1γ to (61/2 ⁻); band assignment.
8747.7 [@] 6	(65/2 ⁻)	E	J ^π : 950.5γ to (61/2 ⁻); band assignment.
8796.4 ^e 11	(65/2 ⁺)	E	J ^π : 943γ to (61/2 ⁺); band assignment.
8845.3 ^c 10	(65/2 ⁺)	E	J ^π : 870γ to (61/2 ⁺); band assignment.
8879.6 ^j 9	(65/2 ⁺)	E	J ^π : 867.9γ to (61/2 ⁺); band assignment.
9047.9 ⁱ 13	(65/2 ⁺)	E	J ^π : 874γ to (61/2 ⁺); band assignment.
9196.2 ^k 7	(67/2 ⁺)	E	J ^π : 884.6γ to (63/2 ⁺); band assignment.
9238.1 [#] 7	(67/2 ⁻)	E	J ^π : 976.3γ to (63/2 ⁻); band assignment.
9301.8 ^f 12	(67/2 ⁺)	E	J ^π : 971γ to (63/2 ⁺); band assignment.
9370.7 ^{&} 8	(67/2 ⁻)	E	J ^π : 961.8γ to (63/2 ⁻); band assignment.
9449.7 ^h 5	(69/2 ⁺)	E	J ^π : 889.5γ to (65/2 ⁺); band assignment.
9453.4 ^g 15	(67/2 ⁺)	E	J ^π : 903γ to (63/2 ⁺); band assignment.
9554.7 [‡] 5	(69/2 ⁻)	E	J ^π : 943.2γ to (65/2 ⁻); band assignment.
9754.7 [@] 12	(69/2 ⁻)	E	J ^π : 1007γ to (65/2 ⁻); band assignment.
9806.2 ^j 10	(69/2 ⁺)	E	J ^π : 926.6γ to (65/2 ⁺); band assignment.
10139.5 ^k 8	(71/2 ⁺)	E	J ^π : 943.3γ to (67/2 ⁺); band assignment.
10229.1 [#] 12	(71/2 ⁻)	E	J ^π : 991γ to (67/2 ⁻); band assignment.
10372.5 ^{&} 9	(71/2 ⁻)	E	J ^π : 1001.7g to (67/2 ⁻); band assignment.
10403.4 ^g 18	(71/2 ⁺)	E	J ^π : 950γ to (67/2 ⁺); band assignment.
10411.2 ^h 7	(73/2 ⁺)	E	J ^π : 961.5γ to (69/2 ⁺); band assignment.
10553.0 [‡] 7	(73/2 ⁻)	E	J ^π : 998.3γ to (69/2 ⁻); band assignment.
10784.3 ^j 11	(73/2 ⁺)	E	J ^π : 978.1γ to (69/2 ⁺); band assignment.
11137.1 ^k 10	(75/2 ⁺)	E	J ^π : 997.6γ to (71/2 ⁺); band assignment.
11407.5 ^{&} 14	(75/2 ⁻)	E	J ^π : 1035γ to (71/2 ⁻); band assignment.

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Adopted Levels, Gammas (continued)

^{171}Re Levels (continued)

E(level) [†]	J ^π	XREF	Comments
11442.9 ^h 9	(77/2 ⁺)	E	J ^π : 1031.7γ to (73/2 ⁺); band assignment.
11591.9 [‡] 9	(77/2 ⁻)	E	J ^π : 1038.9γ to (73/2 ⁻); band assignment.
11821.3 ^j 15	(77/2 ⁺)	E	J ^π : 1037γ to (73/2 ⁺); band assignment.
12176.0 ^k 11	(79/2 ⁺)	E	J ^π : 1038.9γ to (75/2 ⁺); band assignment.
12535.9 ^h 13	(81/2 ⁺)	E	J ^π : 1093γ to (77/2 ⁺); band assignment.
12631.9 [‡] 13	(81/2 ⁻)	E	J ^π : 1040γ to (77/2 ⁻); band assignment.
13235.0 ^k 15	(83/2 ⁺)	E	J ^π : 1059γ to (79/2 ⁺); band assignment.
13697.9 [‡] 17	(85/2 ⁻)	E	J ^π : 1066γ to (81/2 ⁻); band assignment.

[†] From a least-squares fit to E_γ, by evaluators.

[‡] Band(A): $\pi 9/2[514]$, $\alpha=+1/2$ band. Backbend at $\hbar\omega \approx 0.23$ MeV due to neutron pair AB crossing. Another gain in alignment at $\hbar\omega \approx 0.38$ MeV due to Cd crossing. Still another alignment is observed at $\hbar\omega \approx 0.5$ MeV only in $\alpha=+1/2$ signature band which may due to proton pair crossing E_pF_p.

[#] Band(a): $\pi 9/2[514]$, $\alpha=-1/2$ band. Backbend at $\hbar\omega \approx 0.23$ MeV due to neutron pair AB crossing. Another gain in alignment at $\hbar\omega \approx 0.38$ MeV due to Cd crossing.

[@] Band(B): $\pi 1/2[541]$, $\alpha=+1/2$ band. Backbend at $\hbar\omega \approx 0.28$ MeV due to neutron pair AB crossing. Another gain in alignment at higher frequency due to Cd crossing.

[&] Band(C): $\pi 1/2[541]$, $\alpha=-1/2$ band. Backbend at $\hbar\omega \approx 0.24$ MeV due to neutron pair AB crossing. Another gain in alignment at higher frequency due to Cd crossing. Still another alignment is observed higher up only in $\alpha=-1/2$ signature band which may due to proton pair crossing E_pF_p.

^a Band(D): Band based on (33/2⁻). Tentative assignment: continuation of 1/2[541] band with BCAD alignment.

^b Band(E): Band based on 39/2⁽⁺⁾.

^c Band(F): $\pi h_{11/2} \otimes \nu \text{AFBC}$, $\alpha=+1/2$ band. Possible 5-qp band.

^d Band(f): $\pi h_{11/2} \otimes \nu \text{AFBC}$, $\alpha=-1/2$ band. Possible 5-qp band.

^e Band(G): $\pi 5/2[402]$, $\alpha=+1/2$ band. Backbend at $\hbar\omega \approx 0.20$ MeV due to neutron pair AB crossing. Another gain in alignment at $\hbar\omega \approx 0.30$ MeV due to BC crossing. Thus at higher energies configuration is $\pi 5/2[402] \otimes \nu \text{aebc}$.

^f Band(g): $\pi 5/2[402]$, $\alpha=-1/2$ band. Backbend at $\hbar\omega \approx 0.20$ MeV due to neutron pair AB crossing. Another gain in alignment at $\hbar\omega \approx 0.30$ MeV due to BC crossing. Thus at higher energies configuration is $\pi 5/2[402] \otimes \nu \text{AEBC}$.

^g Band(H): $\pi 1/2[411]$, $\alpha=-1/2$ band. Alignment at higher frequencies may be due to BC or AD crossing or due to unfavored signature $\pi i_{13/2} \otimes \nu \text{AB}$.

^h Band(I): $\pi 1/2[660]$, $\alpha=+1/2$ band. Backbend at $\hbar\omega \approx 0.31$ MeV due to neutron pair AB crossing.

ⁱ Band(J): Band based on 25/2⁺. Possible configuration= $(\pi h_{9/2}) \nu \text{(AF)}$; tentative CD crossing at $\hbar\omega \approx 0.38$ MeV.

^j Band(K): Band based on 45/2⁺. Possible configuration= $\pi h_{9/2} \otimes \nu \text{(AFBC)}$ above $\hbar\omega=0.33$ MeV.

^k Band(L): Band based on 27/2⁺. Possible configuration= $(\pi h_{9/2}) \nu \text{(AE)}$; $\pi h_{9/2} \otimes \nu \text{(AEBC)}$ above $\hbar\omega=0.33$ MeV.

^l Band(M): Band based on (3/2⁺).

$\gamma(^{171}\text{Re})$

E _i (level)	J _i ^π	E _γ [†]	I _γ [†]	E _f	J _f ^π	Mult. [†]
157.09	(11/2 ⁻)	157.1 2	100	0.0	(9/2 ⁻)	(D)
189.9	(5/2 ⁻)	189.8 [#] 4	100	0.0	(9/2 ⁻)	
285.3	(9/2 ⁻)	95.4 2	≈100	189.9	(5/2 ⁻)	
		127.8 5	3.5 5	157.09	(11/2 ⁻)	
301.2	(3/2 ⁻)	107.9 5		193.3		
		110.9 5		189.9	(5/2 ⁻)	
380.90	(13/2 ⁻)	223.8 2	≈100	157.09	(11/2 ⁻)	D

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Adopted Levels, Gammas (continued)

$\gamma(^{171}\text{Re})$ (continued)									
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [†]	δ^\ddagger	α	Comments
380.90	(13/2 ⁻)	380.9 2	≈18	0.0	(9/2 ⁻)	Q			
382.4	(7/2 ⁺)	150.2 2	100	232.2	(5/2 ⁺)	D			
447.8	(7/2 ⁻)	146.5 2	40 3	301.2	(3/2 ⁻)				
		162.1 5	<14	285.3	(9/2 ⁻)				
		258.0 2	100 6	189.9	(5/2 ⁻)	D			
514.4	(13/2 ⁻)	229.1 2	100	285.3	(9/2 ⁻)	Q			
515.9	(3/2 ⁻)	326 [#] 1	100	189.9	(5/2 ⁻)	[M1]		0.190	$\alpha(\text{K})=0.158$ 3; $\alpha(\text{L})=0.0249$ 4; $\alpha(\text{M})=0.00568$ 10; $\alpha(\text{N})=0.001378$ 23; $\alpha(\text{O})=0.000232$ 4 $\alpha(\text{P})=1.70\times 10^{-5}$ 3
532.2	(7/2 ⁺)	273.6 2	100	258.6	(3/2 ⁺)				
554.1	(9/2 ⁺)	171.6 2	100	382.4	(7/2 ⁺)	D			
		321.9 2	36 8	232.2	(5/2 ⁺)				I_γ : from ($^{52}\text{Cr},4n\gamma$). Other: 29 7 in ($^{30}\text{Si},p2n\gamma$), ≈ 38 in ($^{55}\text{Mn},4n\gamma$).
614.41	(15/2 ⁻)	233.5 2	100 5	380.90	(13/2 ⁻)	D			
		457.4 2	59 3	157.09	(11/2 ⁻)	Q			I_γ : others: 52 5 in ($^{30}\text{Si},p2n\gamma$) and 47 in ($^{52}\text{Cr},4n\gamma$).
700.8	(11/2 ⁻)	186.8 5	<8	514.4	(13/2 ⁻)				
		253.0 2	100 6	447.8	(7/2 ⁻)				
		415.5 2	74 5	285.3	(9/2 ⁻)				
758.6	(11/2 ⁺)	204.5 2	100 11	554.1	(9/2 ⁺)	D			
		376.2 2	57 4	382.4	(7/2 ⁺)	(Q)			
850.2	(7/2 ⁺)	273.9 3	100	576.3	(3/2 ⁺)				E_γ : from ($^{30}\text{Si},p2n\gamma$).
869.2	(17/2 ⁻)	354.8 2	100	514.4	(13/2 ⁻)	Q			
894.28	(17/2 ⁻)	279.9 2	100 6	614.41	(15/2 ⁻)	D			
		513.4 2	54 4	380.90	(13/2 ⁻)	Q			I_γ : others: 67 9 in ($^{30}\text{Si},p2n\gamma$) and 71 in ($^{52}\text{Cr},4n\gamma$).
894.9	(7/2 ⁻)	705.0 [#] 5	100	189.9	(5/2 ⁻)				
909.9	(11/2 ⁺)	377.7 2	100	532.2	(7/2 ⁺)	Q			
961.4	(13/2 ⁺)	202.9 2	100 10	758.6	(11/2 ⁺)	D			
		407.3 2	92 8	554.1	(9/2 ⁺)	Q			
1065.2	(15/2 ⁻)	364.3 2	100 5	700.8	(11/2 ⁻)	Q			
		550.8 2	27.8 13	514.4	(13/2 ⁻)	D			
1162.38	(19/2 ⁻)	268.1 2	100 5	894.28	(17/2 ⁻)	D			
		548.0 2	95 5	614.41	(15/2 ⁻)	Q			I_γ : others: 87 6 in ($^{30}\text{Si},p2n\gamma$) and 100 in ($^{52}\text{Cr},4n\gamma$).
1186.5	(15/2 ⁺)	225.0 2	95 5	961.4	(13/2 ⁺)	D			
		427.9 2	100 7	758.6	(11/2 ⁺)	Q			
1227.8	(11/2 ⁺)	377.6 2	100	850.2	(7/2 ⁺)				E_γ : from ($^{30}\text{Si},p2n\gamma$).
1305.5	(15/2 ⁺)	395.6 2	100	909.9	(11/2 ⁺)	Q			
1326.5	(21/2 ⁻)	457.4 2	100	869.2	(17/2 ⁻)	Q			
1393.7	(17/2 ⁺)	207.3 2	58 7	1186.5	(15/2 ⁺)	D			
		432.2 2	100 4	961.4	(13/2 ⁺)	Q			
1424.4	(17/2 ⁺)	238.0 2	100 11	1186.5	(15/2 ⁺)	D			
		463.1 2	100 5	961.4	(13/2 ⁺)	Q			
		555.2 2	25.8 16	869.2	(17/2 ⁻)	D+Q			
1474.25	(21/2 ⁻)	311.9 2	96 5	1162.38	(19/2 ⁻)	D+Q	0.13 3		I_γ : others: 82 13 in ($^{30}\text{Si},p2n\gamma$) and 92 in ($^{52}\text{Cr},4n\gamma$).
		580.0 2	100 5	894.28	(17/2 ⁻)	Q			
1521.9	(19/2 ⁻)	456.7 2	100 6	1065.2	(15/2 ⁻)	Q			
		652.8 2	26.1 14	869.2	(17/2 ⁻)	D			
1623.8		199 [@] 1		1424.4	(17/2 ⁺)				

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Adopted Levels, Gammas (continued)

$\gamma(^{171}\text{Re})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [†]	δ^\ddagger	Comments
1623.8		396.0@ 10		1227.8	(11/2 ⁺)			
1631.9	(19/2 ⁺)	238.1 2	82 4	1393.7	(17/2 ⁺)	D		
		445.4 2	100 11	1186.5	(15/2 ⁺)	Q		
1704.9	(19/2 ⁺)	399.4 2	100	1305.5	(15/2 ⁺)	Q		
1733.5	(21/2 ⁺)	309.1 2	100 7	1424.4	(17/2 ⁺)	Q		
		339.9 2	83 7	1393.7	(17/2 ⁺)	Q		
		406.8 2	28.6 24	1326.5	(21/2 ⁻)			
1757.87	(23/2 ⁻)	283.6 2	81 4	1474.25	(21/2 ⁻)	D+Q	0.05 3	I_γ : others: 59 3 in ($^{30}\text{Si},\text{p}2\text{n}\gamma$) and 67 in ($^{52}\text{Cr},4\text{n}\gamma$).
		595.5 2	100 6	1162.38	(19/2 ⁻)	(Q)		
1862.0	(25/2 ⁻)	535.5 2	100	1326.5	(21/2 ⁻)	Q		
1865.0	(21/2 ⁺)	233.1 2	57 4	1631.9	(19/2 ⁺)			
		471.3 2	100 9	1393.7	(17/2 ⁺)	Q		
2023.1		290@ 1		1733.5	(21/2 ⁺)			
		398.9@ 10		1623.8				
2043.7	(23/2 ⁻)	521.7 2	100 6	1521.9	(19/2 ⁻)	Q		
		717.2 2	14 4	1326.5	(21/2 ⁻)	D		
2072.1	(25/2 ⁻)	314.2 2	81 4	1757.87	(23/2 ⁻)	D+Q	0.05 3	I_γ : others: 71 4 in ($^{30}\text{Si},\text{p}2\text{n}\gamma$) and 75 in ($^{52}\text{Cr},4\text{n}\gamma$). Mult.: from $\gamma(\theta)$ in ($^{30}\text{Si},\text{p}2\text{n}\gamma$).
		597.9 2	100 6	1474.25	(21/2 ⁻)	Q		
2105.4	(23/2 ⁺)	240.3 2	22.3 17	1865.0	(21/2 ⁺)	D+Q		
		400.3 2	3.5 4	1704.9	(19/2 ⁺)			
		473.4 2	100 10	1631.9	(19/2 ⁺)	Q		
2106.2	(23/2 ⁺)	240.8 10	17	1865.0	(21/2 ⁺)			E_γ, I_γ : from ($^{52}\text{Cr},4\text{n}\gamma$).
		474.2 2	100	1631.9	(19/2 ⁺)			E_γ, I_γ : from ($^{52}\text{Cr},4\text{n}\gamma$). I_γ : other: I(474 γ):I(241 γ)=100 57:32 23 in ($^{30}\text{Si},\text{p}2\text{n}\gamma$), but 474 γ is a doublet in that reaction.
2130.1	(23/2 ⁺)	425.3 2	92 5	1704.9	(19/2 ⁺)	(Q)		
		498.1 2	100 5	1631.9	(19/2 ⁺)			
2139.1	(25/2 ⁺)	277.0 2	1.7 8	1862.0	(25/2 ⁻)			
		405.7 2	100 20	1733.5	(21/2 ⁺)	Q		
2229.3	(25/2 ⁺)	122.8 3	93 20	2106.2	(23/2 ⁺)			E_γ, I_γ : from ($^{30}\text{Si},\text{p}2\text{n}\gamma$).
		123.7 2	100 20	2105.4	(23/2 ⁺)	D		I_γ : from ($^{30}\text{Si},\text{p}2\text{n}\gamma$).
2312.9		451.4@ 10	100	1862.0	(25/2 ⁻)			
2343.5	(27/2 ⁻)	271.5 2	73 4	2072.1	(25/2 ⁻)	D(+Q)	0.01 3	I_γ : others: 71 4 in ($^{30}\text{Si},\text{p}2\text{n}\gamma$) and 62 in ($^{52}\text{Cr},4\text{n}\gamma$). Mult.: from $\gamma(\theta)$ in ($^{30}\text{Si},\text{p}2\text{n}\gamma$).
		585.6 2	100 6	1757.87	(23/2 ⁻)	Q		
2392.7	(27/2 ⁺)	163.2 2	100	2229.3	(25/2 ⁺)	D		
2422.8		399.7@ 10	100	2023.1				
2445.1	(29/2 ⁻)	583.2 2	100	1862.0	(25/2 ⁻)	Q		Other E_γ : 583.7 2 in ($^{52}\text{Cr},4\text{n}\gamma$).
2481.0	(25/2 ⁺)	341.9 2	100	2139.1	(25/2 ⁺)			
2545.8	(29/2 ⁻)	202.3 2	100 5	2343.5	(27/2 ⁻)	D		
		473.8 2	44 3	2072.1	(25/2 ⁻)	Q		I_γ : others: 34 5 in ($^{30}\text{Si},\text{p}2\text{n}\gamma$) and 51 in ($^{52}\text{Cr},4\text{n}\gamma$).
2572.0	(27/2 ⁺)	441.9 2	100 5	2130.1	(23/2 ⁺)	Q		
		466.7 2	87 5	2105.4	(23/2 ⁺)			
2579.3	(27/2 ⁻)	535.6 2	100 10	2043.7	(23/2 ⁻)	Q		
		717.4 2	16 4	1862.0	(25/2 ⁻)	D		
2593.5	(29/2 ⁺)	200.8 2	100 11	2392.7	(27/2 ⁺)	D		
		364.0 2	24 4	2229.3	(25/2 ⁺)	Q		Other I_γ : 16 13 in ($^{30}\text{Si},\text{p}2\text{n}\gamma$).
2611.7	(29/2 ⁺)	472.6 2	100	2139.1	(25/2 ⁺)	Q		

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Adopted Levels, Gammas (continued)

$\gamma(^{171}\text{Re})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [†]	δ^\ddagger	Comments
2704.7	(31/2 ⁻)	158.9 2 361.3 2	100 8 10.0 10	2545.8 (29/2 ⁻) 2343.5 (27/2 ⁻)		(D)		I_γ : others: 15.8 24 in ($^{30}\text{Si},p2n\gamma$) and 52 in ($^{52}\text{Cr},4n\gamma$).
2742.1		296.5 10 429.6 10	40 100	2445.1 (29/2 ⁻) 2312.9				
2831.1	(31/2 ⁺)	237.5 2 438.4 2	100 12 35.3 18	2593.5 (29/2 ⁺) 2392.7 (27/2 ⁺)		D Q		
2848.5		425.7 [@] 10	100	2422.8				
2881.3	(29/2 ⁺)	269.6 2 400.2 2	100 9 83 9	2611.7 (29/2 ⁺) 2481.0 (25/2 ⁺)		D+Q Q		
2889.0	(33/2 ⁻)	184.3 2 343.2 2	100 5 23.6 18	2704.7 (31/2 ⁻) 2545.8 (29/2 ⁻)		D+Q Q		Mult.: from $\gamma(\theta)$ in ($^{30}\text{Si},p2n\gamma$). I_γ : others: 14 5 in ($^{30}\text{Si},p2n\gamma$) and 15 in ($^{52}\text{Cr},4n\gamma$).
3007.7	(33/2 ⁻)	562.7 2	100	2445.1 (29/2 ⁻)		Q		
3008.1	(31/2 ⁻)	429.0 2 562.9 2	100 9 10.7 13	2579.3 (27/2 ⁻) 2445.1 (29/2 ⁻)		Q		
3029.6		584.5 2	100	2445.1 (29/2 ⁻)				
3058.8	(31/2 ⁺)	486.9 2	100	2572.0 (27/2 ⁺)		Q		
3063.1		491.1 2	100	2572.0 (27/2 ⁺)				
3097.5	(33/2 ⁺)	266.2 2 503.8 2	100 6 69 4	2831.1 (31/2 ⁺) 2593.5 (29/2 ⁺)		Q		
3106.5	(35/2 ⁻)	217.5 2 401.7 2	100 4 22.2 19	2889.0 (33/2 ⁻) 2704.7 (31/2 ⁻)		D+Q Q	0.04 3	Mult.: from $\gamma(\theta)$ in ($^{30}\text{Si},p2n\gamma$). I_γ : others: 22 4 in ($^{30}\text{Si},p2n\gamma$) and 30 in ($^{52}\text{Cr},4n\gamma$).
3111.7	(31/2 ⁺)	402.3 2	100	2709.4 (27/2 ⁺)				
3141.3	(33/2 ⁺)	529.5 2	100	2611.7 (29/2 ⁺)		Q		
3243.1		501.0 [@] 10	100	2742.1				
3262.2	(33/2 ⁻)	817.1 2	100	2445.1 (29/2 ⁻)		Q		
3291.1		442.6 [@] 10	100	2848.5				
3316.6	(33/2 ⁺)	253.6 5 257.7 5	100 13 88 13	3063.1 3058.8 (31/2 ⁺)				
3326.9	(33/2 ⁺)	445.7 2	100	2881.3 (29/2 ⁺)		Q		
3354.8	(37/2 ⁻)	248.3 2 466.0 2	100 4 37.5 21	3106.5 (35/2 ⁻) 2889.0 (33/2 ⁻)		D Q		I_γ : others: 36 6 in ($^{30}\text{Si},p2n\gamma$) and 43 in ($^{52}\text{Cr},4n\gamma$).
3387.8	(35/2 ⁺)	290.2 2 556.5 2	100 5 56 4	3097.5 (33/2 ⁺) 2831.1 (31/2 ⁺)		D(+Q) Q	+0.02 8	Mult.: from $\gamma(\theta)$ in ($^{30}\text{Si},p2n\gamma$).
3458.5	(35/2 ⁻)	428.9 2 450.5 2 450.9 2	28 4 100 10 53 6	3029.6 3008.1 (31/2 ⁻) 3007.7 (33/2 ⁻)		Q		
3518.7	(37/2 ⁻)	511.2 2	100	3007.7 (33/2 ⁻)		Q		
3588.6	(35/2 ⁺)	447.1 2 476.9 2 529.9 2	30 3 58 3 100 3	3141.3 (33/2 ⁺) 3111.7 (31/2 ⁺) 3058.8 (31/2 ⁺)		(Q) Q Q		
3597.9	(35/2 ⁺)	281.3 5 486.0 5 534.8 5	15.6 22 11.1 22 20.0 22	3316.6 (33/2 ⁺) 3111.7 (31/2 ⁺) 3063.1		D		
3635.9	(39/2 ⁻)	539.1 2 281.1 2 529.3 2	100 7 100 5 46 3	3058.8 (31/2 ⁺) 3354.8 (37/2 ⁻) 3106.5 (35/2 ⁻)		(Q) D Q		I_γ : others: 68 12 in ($^{30}\text{Si},p2n\gamma$) and 49 in ($^{52}\text{Cr},4n\gamma$).
3699.6	(37/2 ⁺)	311.8 2 602.0 2	76 4 100 6	3387.8 (35/2 ⁺) 3097.5 (33/2 ⁺)				
3723.9	(37/2 ⁺)	582.7 2	100	3141.3 (33/2 ⁺)		Q		

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Adopted Levels, Gammas (continued)

$\gamma(^{171}\text{Re})$ (continued)								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [†]	δ^\ddagger	Comments
3828.6		585.5@ 10	100	3243.1				
3847.1	(37/2 ⁺)	520.2 2	100	3326.9 (33/2 ⁺)				
3892.2	(37/2 ⁻)	630.0 2	100 5	3262.2 (33/2 ⁻)				
		884.5 2	90 5	3007.7 (33/2 ⁻)		Q		
3937.3	(41/2 ⁻)	301.4 2	100 6	3635.9 (39/2 ⁻)		D		
		582.6 2	81 6	3354.8 (37/2 ⁻)		Q		I_γ : others: 33 8 in (³⁰ Si,p2n γ) and 90 in (⁵² Cr,4n γ).
3958.7	(39/2 ⁻)	439.9 2	20.7 13	3518.7 (37/2 ⁻)		D		
		500.3 2	100 7	3458.5 (35/2 ⁻)		Q		
4017.9	(39/2 ⁺)	318.2 2	89 5	3699.6 (37/2 ⁺)		D		
		630.0 2	100 8	3387.8 (35/2 ⁺)		Q		
4069.1	(41/2 ⁻)	550.5 2	100	3518.7 (37/2 ⁻)		Q		
4134.5	(39/2 ⁺)	287.4 2	21.3 21	3847.1 (37/2 ⁺)				
		536.5 2	23.4 21	3597.9 (35/2 ⁺)				
		545.9 2	100 4	3588.6 (35/2 ⁺)				
4186.1	(39/2 ⁺)	588.2 2	100	3597.9 (35/2 ⁺)		Q		
4222.0	(39/2 ⁺)	703.4 2	100	3518.7 (37/2 ⁻)		D		
4266.5	(43/2 ⁻)	329.2 2	100 8	3937.3 (41/2 ⁻)		D(+Q)	0.01 6	Mult.: from $\gamma(\theta)$ in (³⁰ Si,p2n γ). I_γ : others: 44 9 in (³⁰ Si,p2n γ) and 61 in (⁵² Cr,4n γ).
		630.7 3	80 4	3635.9 (39/2 ⁻)		Q		
4341.6	(41/2 ⁺)	323.7 2	82 8	4017.9 (39/2 ⁺)		D(+Q)	0.05 15	Mult.: from $\gamma(\theta)$ in (³⁰ Si,p2n γ).
		641.7 2	100 6	3699.6 (37/2 ⁺)				
4352.1	(41/2 ⁺)	628.2 2	100	3723.9 (37/2 ⁺)		Q		
4390.9		667@ 1	100	3723.9 (37/2 ⁺)				
4434.3	(41/2 ⁺)	587.2 2	100	3847.1 (37/2 ⁺)		Q		
4489.4		660.8@ 10	100	3828.6				
4543.4	(43/2 ⁻)	584.7 2	100	3958.7 (39/2 ⁻)		Q		
4585.6	(41/2 ⁻)	693.4 2	100	3892.2 (37/2 ⁻)				
4605.7	(45/2 ⁻)	339.3 2	100 5	4266.5 (43/2 ⁻)		D		
		668.4 2	77 5	3937.3 (41/2 ⁻)		Q		I_γ : others: 90 30 in (³⁰ Si,p2n γ) and 80 in (⁵² Cr,4n γ).
4632.1	(43/2 ⁺)	290.4 2	92 6	4341.6 (41/2 ⁺)		D		
		614.1 2	100 7	4017.9 (39/2 ⁺)		Q		
4685.7	(45/2 ⁻)	616.7 2	100	4069.1 (41/2 ⁻)		Q		
4728.7	(43/2 ⁺)	594.2 2	100	4134.5 (39/2 ⁺)				
4804.1	(43/2 ⁺)	582.3 5	<22	4222.0 (39/2 ⁺)				
		735.0 2	100 9	4069.1 (41/2 ⁻)		D		
4812.0	(43/2 ⁺)	590.3 5	40 7	4222.0 (39/2 ⁺)				
		742.9 2	100 7	4069.1 (41/2 ⁻)				
4820.4	(43/2 ⁺)	634.3 2	100	4186.1 (39/2 ⁺)		Q		
4898.3	(45/2 ⁺)	266.1 2	78 5	4632.1 (43/2 ⁺)		D		
		556.5 2	100 9	4341.6 (41/2 ⁺)		Q		
4964.9	(45/2 ⁺)	612.8 2	100	4352.1 (41/2 ⁺)		Q		
4967.5	(47/2 ⁻)	361.7 2	93 7	4605.7 (45/2 ⁻)		(D+Q)	+0.25 10	I_γ : others: 80 30 in (³⁰ Si,p2n γ) and 59 in (⁵² Cr,4n γ).
		701.2 3	100 7	4266.5 (43/2 ⁻)		Q		
5059.7	(45/2 ⁺)	625.3 2	14 3	4434.3 (41/2 ⁺)				
		707.7 2	100 11	4352.1 (41/2 ⁺)		Q		
5084.5	(45/2 ⁺)	272.5 2	100 10	4812.0 (43/2 ⁺)				
		280.4 2	73 9	4804.1 (43/2 ⁺)				
5084.7	(45/2 ⁺)	650.4 2		4434.3 (41/2 ⁺)		Q		
		732.6 2		4352.1 (41/2 ⁺)				
5174.5	(47/2 ⁺)	276.1 2	100 6	4898.3 (45/2 ⁺)		D		
		542.3 2	46 3	4632.1 (43/2 ⁺)				
5203.6	(47/2 ⁻)	660.2 2	100	4543.4 (43/2 ⁻)		Q		

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Adopted Levels, Gammas (continued) $\gamma(^{171}\text{Re})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [†]	Comments
5211.4		722.0 @ 10	100	4489.4			
5270.2	(45/2 ⁻)	684.6 2	100	4585.6	(41/2 ⁻)		
5330.4	(49/2 ⁻)	362.9 2	100 8	4967.5	(47/2 ⁻)	D	E_γ : others: 360.1 3 in ($^{30}\text{Si}, p2n\gamma$) and 363.2 10 in ($^{52}\text{Cr}, 4n\gamma$).
		724.7 2	96 5	4605.7	(45/2 ⁻)	Q	E_γ : others: 721.4 3 in ($^{30}\text{Si}, p2n\gamma$) and 725.3 10 in ($^{52}\text{Cr}, 4n\gamma$).
							I_γ : others: 220 110 in ($^{30}\text{Si}, p2n\gamma$) and 300 in ($^{52}\text{Cr}, 4n\gamma$).
5362.0	(47/2 ⁺)	633.3 2	100	4728.7	(43/2 ⁺)		
5368.4	(49/2 ⁻)	682.9 2	100	4685.7	(45/2 ⁻)	Q	
5380.4	(47/2 ⁺)	295.9 2	100 8	5084.5	(45/2 ⁺)		
		568.5 5	46 8	4812.0	(43/2 ⁺)		
		576.5 5	<40	4804.1	(43/2 ⁺)		
5473.8	(47/2 ⁺)	653.4 2	100	4820.4	(43/2 ⁺)		
5474.7	(49/2 ⁺)	300.1 2	100 5	5174.5	(47/2 ⁺)	D	
		576.3 2	59 4	4898.3	(45/2 ⁺)		
5479.8	(47/2 ⁺)	676.0 5	36 7	4804.1	(43/2 ⁺)		
		794.1 2	100 7	4685.7	(45/2 ⁻)	D	
5570.7	(49/2 ⁺)	603.5 2	100	4967.5	(47/2 ⁻)	Q	
5702.7	(49/2 ⁺)	322.3 2	100 10	5380.4	(47/2 ⁺)		
		618.2 2	90 10	5084.5	(45/2 ⁺)		
5716.2	(51/2 ⁻)	385.7 2	90 5	5330.4	(49/2 ⁻)	D	
		748.6 2	100 6	4967.5	(47/2 ⁻)	Q	
5741.4	(49/2 ⁺)	681.7 2	100	5059.7	(45/2 ⁺)	Q	
5795.1	(49/2 ⁺)	710.7 2	100 11	5084.7	(45/2 ⁺)	Q	
		735.5 2	56 6	5059.7	(45/2 ⁺)		
5804.3	(51/2 ⁺)	329.5 2	100 5	5474.7	(49/2 ⁺)	D	
		629.7 2	57 5	5174.5	(47/2 ⁺)	Q	
5924.8	(51/2 ⁻)	721.2 2	100	5203.6	(47/2 ⁻)	Q	
5974.5	(49/2 ⁻)	704.3 2	100	5270.2	(45/2 ⁻)		
5985.8		774.4 @ 10	100	5211.4			
6028.2	(51/2 ⁺)	666.2 2	100	5362.0	(47/2 ⁺)		
6042.3	(51/2 ⁺)	339.4 5	100 13	5702.7	(49/2 ⁺)		
		662.1 5	100 13	5380.4	(47/2 ⁺)		
6092.2	(53/2 ⁻)	376.0 2	63 6	5716.2	(51/2 ⁻)	D	
		723.9 2	23.7 11	5368.4	(49/2 ⁻)	Q	
		761.7 2	100 5	5330.4	(49/2 ⁻)	Q	
6113.7	(53/2 ⁻)	397.6 2	15 7	5716.2	(51/2 ⁻)		
		745.3 2	100 6	5368.4	(49/2 ⁻)	Q	
		783.3 2	12 6	5330.4	(49/2 ⁻)		
6161.7	(53/2 ⁺)	357.3 2		5804.3	(51/2 ⁺)	D	
		686.8 2		5474.7	(49/2 ⁺)		
6164.3	(51/2 ⁺)	690.5 5	100	5473.8	(47/2 ⁺)		
6225.0	(51/2 ⁺)	745.2 5	<56	5479.8	(47/2 ⁺)		
		856.6 5	100 11	5368.4	(49/2 ⁻)		
6236.6	(53/2 ⁺)	666.1 2	100	5570.7	(49/2 ⁺)	Q	
6403.8	(53/2 ⁺)	361.6 5	67 11	6042.3	(51/2 ⁺)		
		701.0 5	100 11	5702.7	(49/2 ⁺)		
6451.7	(53/2 ⁺)	710.3 2	100	5741.4	(49/2 ⁺)	Q	
6507.0	(55/2 ⁻)	393.5 5	11.1 19	6113.7	(53/2 ⁻)		
		414.7 2	70 4	6092.2	(53/2 ⁻)		
		790.8 2	100 6	5716.2	(51/2 ⁻)		
6550.3	(55/2 ⁺)	388.6 2	100 4	6161.7	(53/2 ⁺)	D	
		746.0 2	96 4	5804.3	(51/2 ⁺)		
6550.8	(53/2 ⁺)	755.8 2	100	5795.1	(49/2 ⁺)		

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Adopted Levels, Gammas (continued) $\gamma(^{171}\text{Re})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [†]
6698.2	(55/2 ⁻)	773.4 2	100	5924.8	(51/2 ⁻)	Q
6733.9	(55/2 ⁺)	705.7 2	100	6028.2	(51/2 ⁺)	
6743.2	(53/2 ⁻)	768.7 5	100	5974.5	(49/2 ⁻)	
6775.2	(55/2 ⁺)	371.3 5	<100	6403.8	(53/2 ⁺)	
		733.0 5	100 20	6042.3	(51/2 ⁺)	
6888.8	(57/2 ⁻)	381.7 2	19.2 19	6507.0	(55/2 ⁻)	
		775.1 2	31 4	6113.7	(53/2 ⁻)	Q
		796.5 2	100 6	6092.2	(53/2 ⁻)	
6903.6	(55/2 ⁺)	739.3 5	100	6164.3	(51/2 ⁺)	
6921.0	(57/2 ⁻)	414.0 2	48 22	6507.0	(55/2 ⁻)	
		807.3 2	100 30	6113.7	(53/2 ⁻)	Q
		829 & 1	<19	6092.2	(53/2 ⁻)	
6953.0	(57/2 ⁺)	402.3 2	100 10	6550.8	(53/2 ⁺)	
		716.5 2	90 5	6236.6	(53/2 ⁺)	Q
		791.0 2	80 5	6161.7	(53/2 ⁺)	
6969.0	(57/2 ⁺)	418.8 2	69 6	6550.3	(55/2 ⁺)	
		732.5 2	100 6	6236.6	(53/2 ⁺)	Q
		807.2 2	75 6	6161.7	(53/2 ⁺)	
7049.9	(55/2 ⁺)	824.9 5		6225.0	(51/2 ⁺)	
		936.2 5		6113.7	(53/2 ⁻)	
7164.3	(57/2 ⁺)	389.1 5	<83	6775.2	(55/2 ⁺)	
		760.6 5	100 17	6403.8	(53/2 ⁺)	
7204.9	(57/2 ⁺)	753.2 2	100	6451.7	(53/2 ⁺)	
7340.0	(57/2 ⁺)	789.2 5	100	6550.8	(53/2 ⁺)	
7351.1	(59/2 ⁻)	430.4 5	29 4	6921.0	(57/2 ⁻)	
		462.2 5	<21	6888.8	(57/2 ⁻)	
		844.1 2	100 4	6507.0	(55/2 ⁻)	
7377.8	(58/2 ⁺)	827 1	100	6550.3	(55/2 ⁺)	
7401.9	(59/2 ⁺)	432.9 5	58 8	6969.0	(57/2 ⁺)	
		448.8 5	<42	6953.0	(57/2 ⁺)	
		851.2 2	100 8	6550.3	(55/2 ⁺)	
7492.0	(59/2 ⁺)	758.1 2	100	6733.9	(55/2 ⁺)	
7524.8	(59/2 ⁻)	826.6 2	100	6698.2	(55/2 ⁻)	Q
7561.5	(59/2 ⁺)	397.2 5	<83	7164.3	(57/2 ⁺)	
		786.2 5	100 17	6775.2	(55/2 ⁺)	
7701.2	(59/2 ⁺)	797.6 5	100	6903.6	(55/2 ⁺)	
7725.4	(61/2 ⁻)	836.6 2	100	6888.8	(57/2 ⁻)	
7733.5	(61/2 ⁺)	764.4 2	52 4	6969.0	(57/2 ⁺)	
		780.5 2	100 4	6953.0	(57/2 ⁺)	Q
7797.2	(61/2 ⁻)	446.1 5	44 6	7351.1	(59/2 ⁻)	
		876.2 2	100 6	6921.0	(57/2 ⁻)	
7853.4	(61/2 ⁺)	884.3 5	100 20	6969.0	(57/2 ⁺)	
		900.4 5	100 20	6953.0	(57/2 ⁺)	
7925.9?	(59/2 ⁺)	876 & 1	100	7049.9	(55/2 ⁺)	
7975.3	(61/2 ⁺)	413.7 5		7561.5	(59/2 ⁺)	
		811.0 5		7164.3	(57/2 ⁺)	
8011.7	(61/2 ⁺)	806.8 5	100	7204.9	(57/2 ⁺)	
8173.9	(61/2 ⁺)	833.9 5	100	7340.0	(57/2 ⁺)	
8261.8	(63/2 ⁻)	464.6 5	63 13	7797.2	(61/2 ⁻)	
		910.7 5	100 13	7351.1	(59/2 ⁻)	
8311.6	(63/2 ⁺)	819.6 2	100	7492.0	(59/2 ⁺)	
8330.7	(63/2 ⁺)	928.8 5	100	7401.9	(59/2 ⁺)	
8399.4	(63/2 ⁺)	424 1		7975.3	(61/2 ⁺)	
		838 1		7561.5	(59/2 ⁺)	
8408.9	(63/2 ⁻)	884.1 2	100	7524.8	(59/2 ⁻)	Q

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Adopted Levels, Gammas (continued) $\gamma(^{171}\text{Re})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π
8550.4	(63/2 ⁺)	849.2 5	100	7701.2	(59/2 ⁺)	10139.5	(71/2 ⁺)	943.3 5	100	9196.2	(67/2 ⁺)
8560.2	(65/2 ⁺)	826.7 2	100	7733.5	(61/2 ⁺)	10229.1	(71/2 ⁻)	991 1	100	9238.1	(67/2 ⁻)
8611.5	(65/2 ⁻)	886.1 2	100	7725.4	(61/2 ⁻)	10372.5	(71/2 ⁻)	1001.7 5	100	9370.7	(67/2 ⁻)
8747.7	(65/2 ⁻)	950.5 5	100	7797.2	(61/2 ⁻)	10403.4	(71/2 ⁺)	950 1	100	9453.4	(67/2 ⁺)
8796.4	(65/2 ⁺)	943 1	100	7853.4	(61/2 ⁺)	10411.2	(73/2 ⁺)	961.5 5	100	9449.7	(69/2 ⁺)
8845.3	(65/2 ⁺)	446 1		8399.4	(63/2 ⁺)	10553.0	(73/2 ⁻)	998.3 5	100	9554.7	(69/2 ⁻)
		870 1		7975.3	(61/2 ⁺)	10784.3	(73/2 ⁺)	978.1 5	100	9806.2	(69/2 ⁺)
8879.6	(65/2 ⁺)	867.9 5	100	8011.7	(61/2 ⁺)	11137.1	(75/2 ⁺)	997.6 5	100	10139.5	(71/2 ⁺)
9047.9	(65/2 ⁺)	874 1	100	8173.9	(61/2 ⁺)	11407.5	(75/2 ⁻)	1035 1	100	10372.5	(71/2 ⁻)
9196.2	(67/2 ⁺)	884.6 2	100	8311.6	(63/2 ⁺)	11442.9	(77/2 ⁺)	1031.7 5	100	10411.2	(73/2 ⁺)
9238.1	(67/2 ⁻)	976.3 5	100	8261.8	(63/2 ⁻)	11591.9	(77/2 ⁻)	1038.9 5	100	10553.0	(73/2 ⁻)
9301.8?	(67/2 ⁺)	971 & 1	100	8330.7	(63/2 ⁺)	11821.3	(77/2 ⁺)	1037 1	100	10784.3	(73/2 ⁺)
9370.7	(67/2 ⁻)	961.8 5	100	8408.9	(63/2 ⁻)	12176.0	(79/2 ⁺)	1038.9 5	100	11137.1	(75/2 ⁺)
9449.7	(69/2 ⁺)	889.5 2	100	8560.2	(65/2 ⁺)	12535.9?	(81/2 ⁺)	1093 & 1	100	11442.9	(77/2 ⁺)
9453.4	(67/2 ⁺)	903 1	100	8550.4	(63/2 ⁺)	12631.9	(81/2 ⁻)	1040 1	100	11591.9	(77/2 ⁻)
9554.7	(69/2 ⁻)	943.2 2	100	8611.5	(65/2 ⁻)	13235.0?	(83/2 ⁺)	1059 & 1	100	12176.0	(79/2 ⁺)
9754.7	(69/2 ⁻)	1007 1	100	8747.7	(65/2 ⁻)	13697.9	(85/2 ⁻)	1066 1	100	12631.9	(81/2 ⁻)
9806.2	(69/2 ⁺)	926.6 5	100	8879.6	(65/2 ⁺)						

† From $^{120}\text{Sn}(^{55}\text{Mn},4n\gamma)$, except where noted.

‡ From $^{144}\text{Sm}(^{30}\text{Si},p2n\gamma)$.

From ^{171}Os ε decay.

@ From $(^{52}\text{Cr},4n\gamma)$.

& Placement of transition in the level scheme is uncertain.

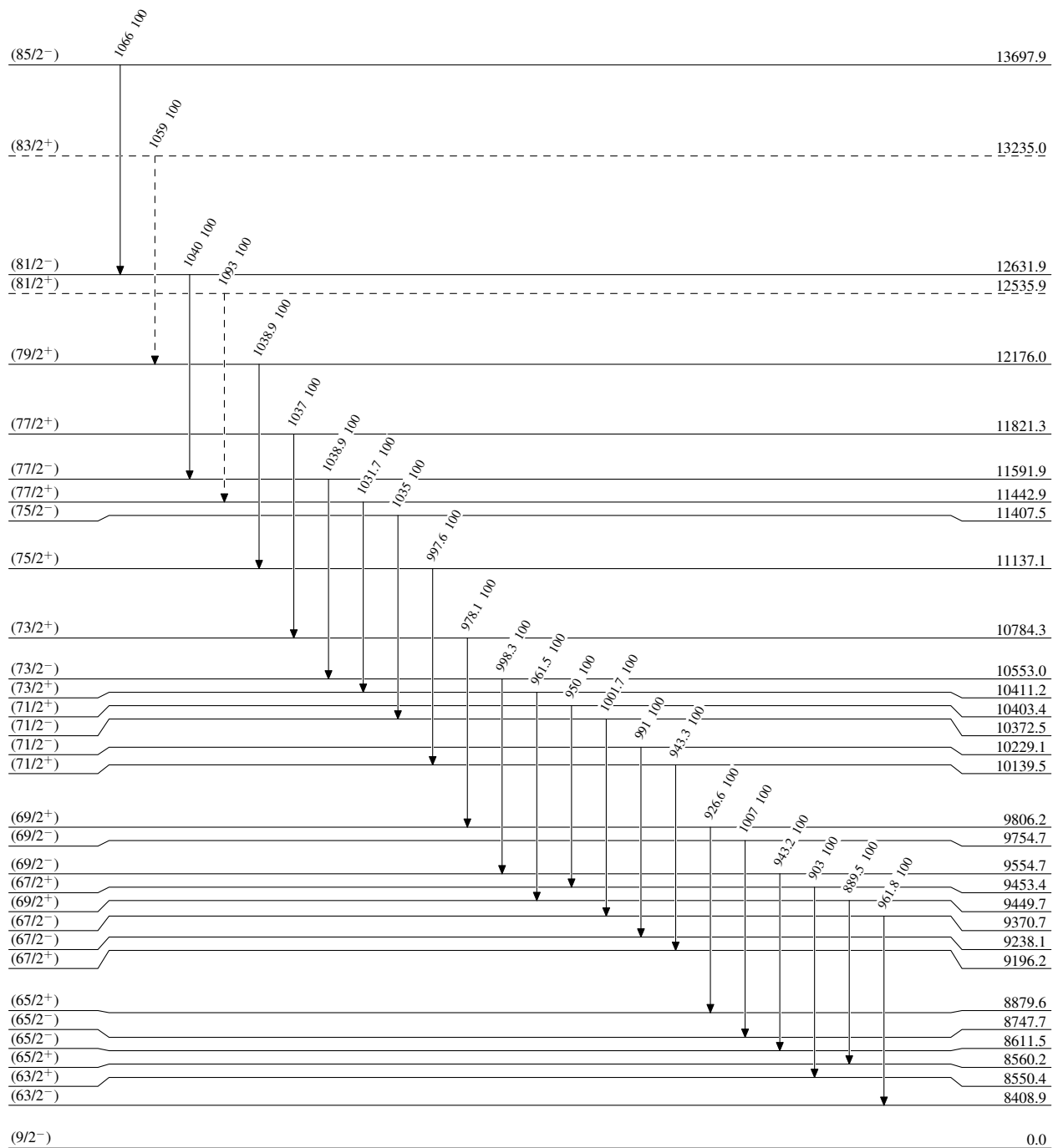
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



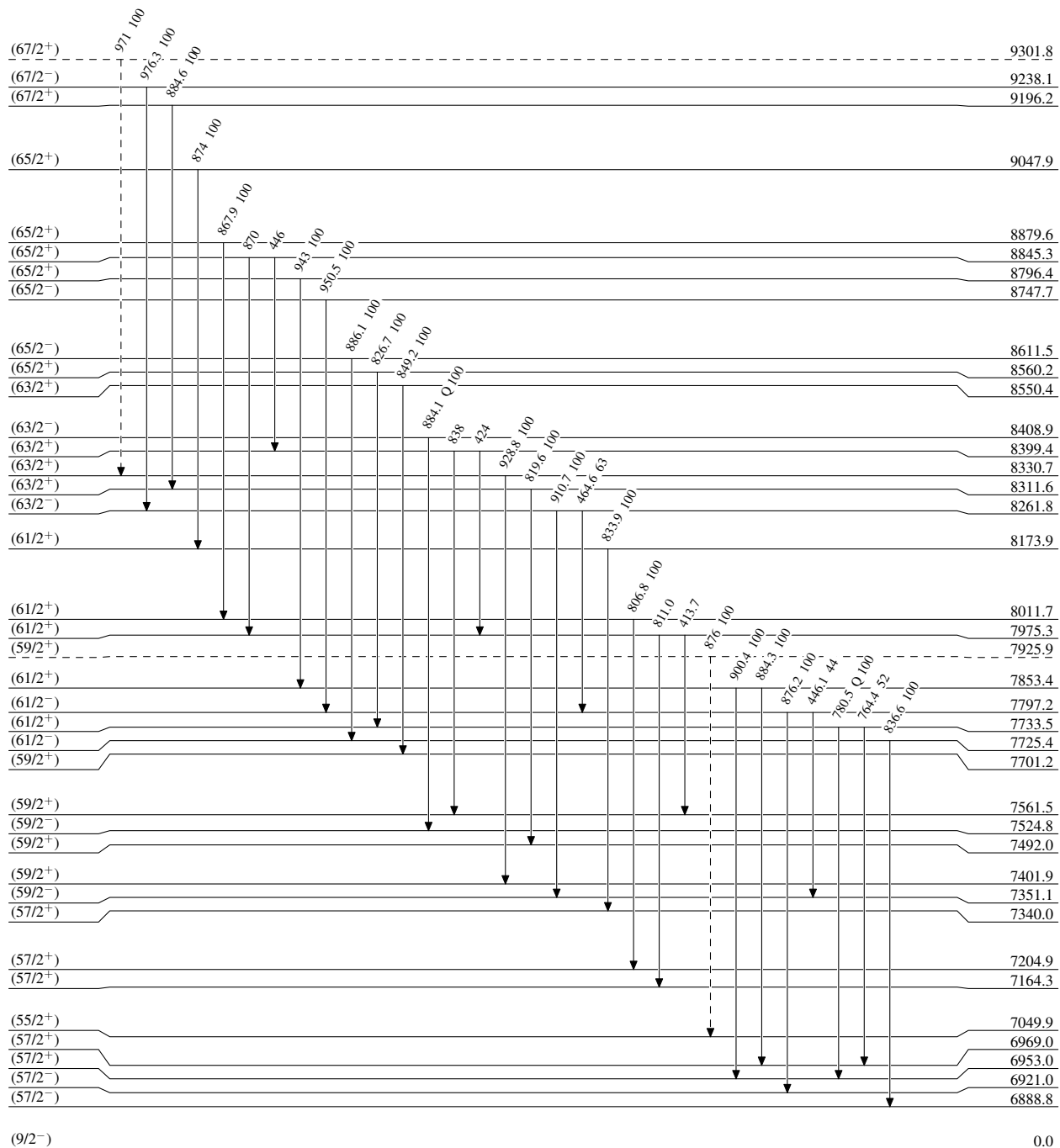
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



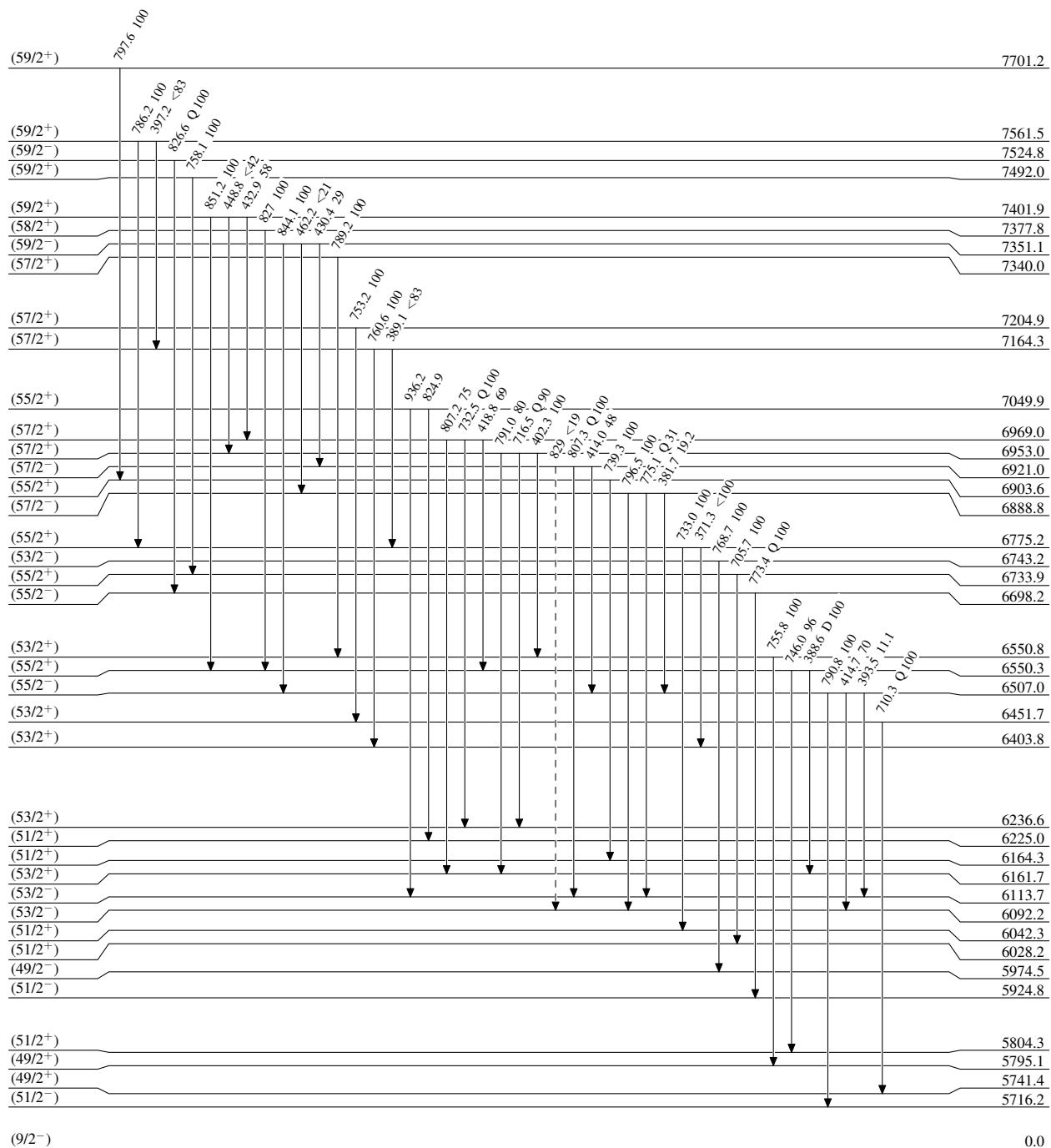
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

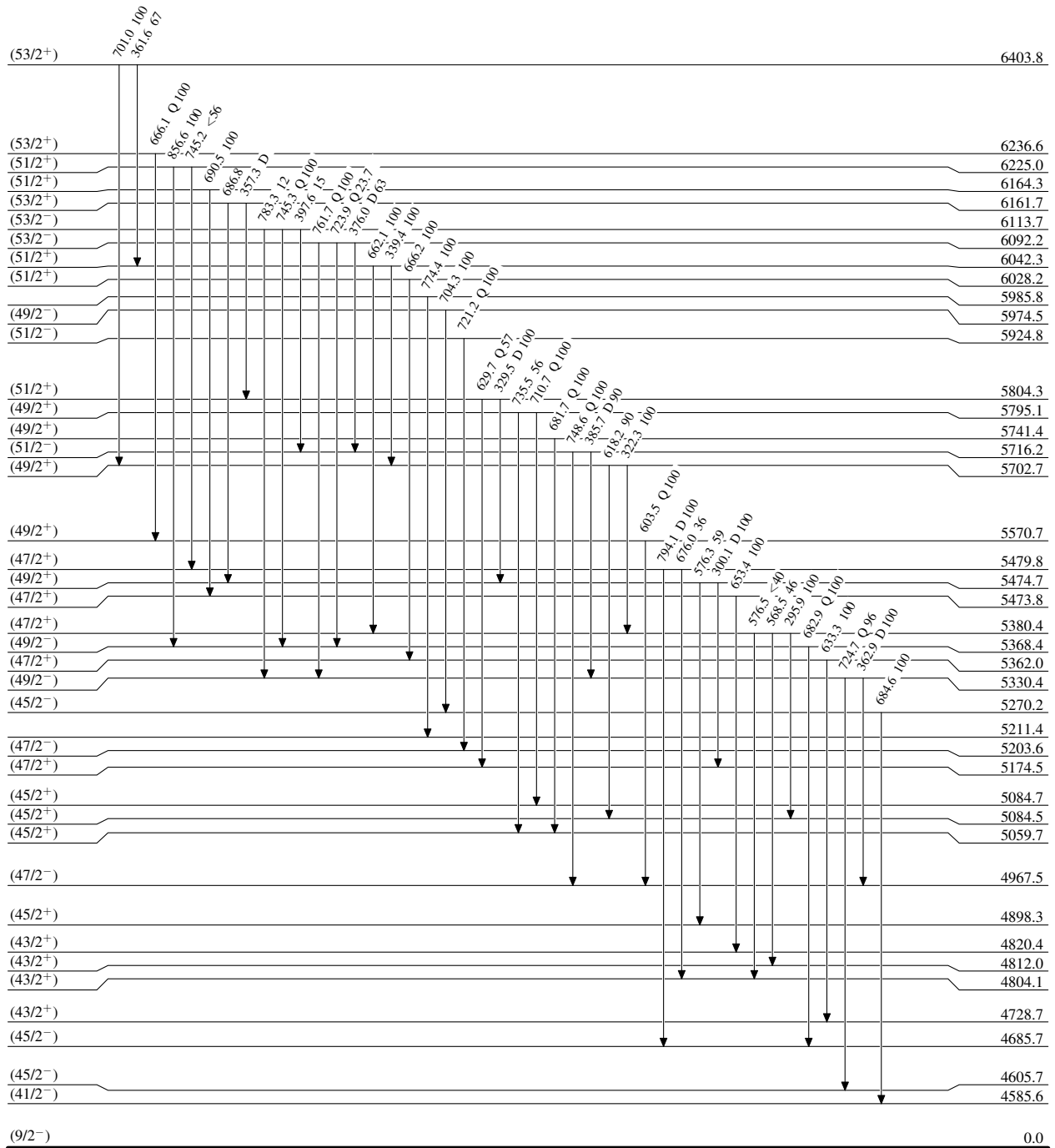
-----▶ γ Decay (Uncertain)



Adopted Levels, Gammas

Level Scheme (continued)

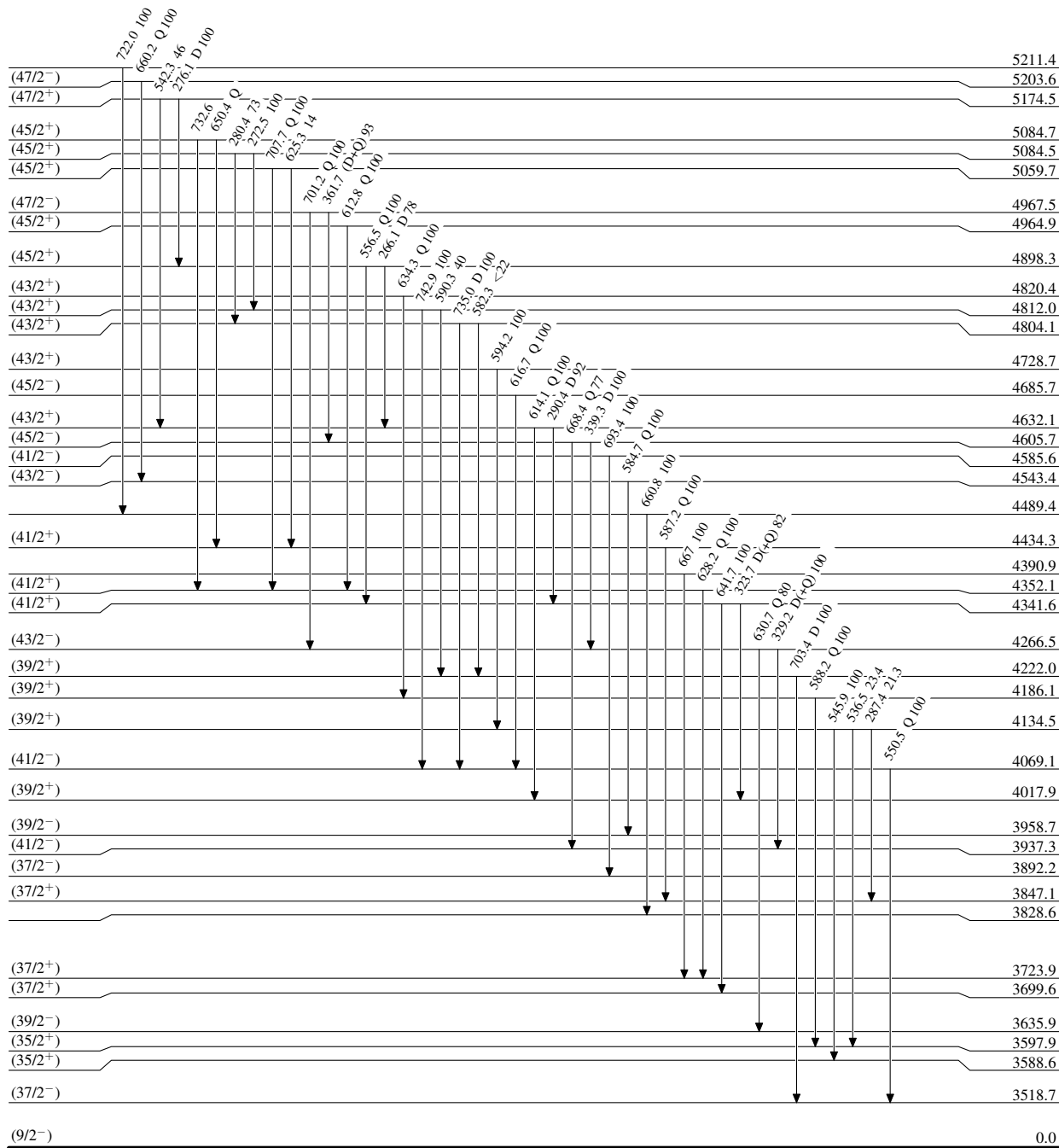
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

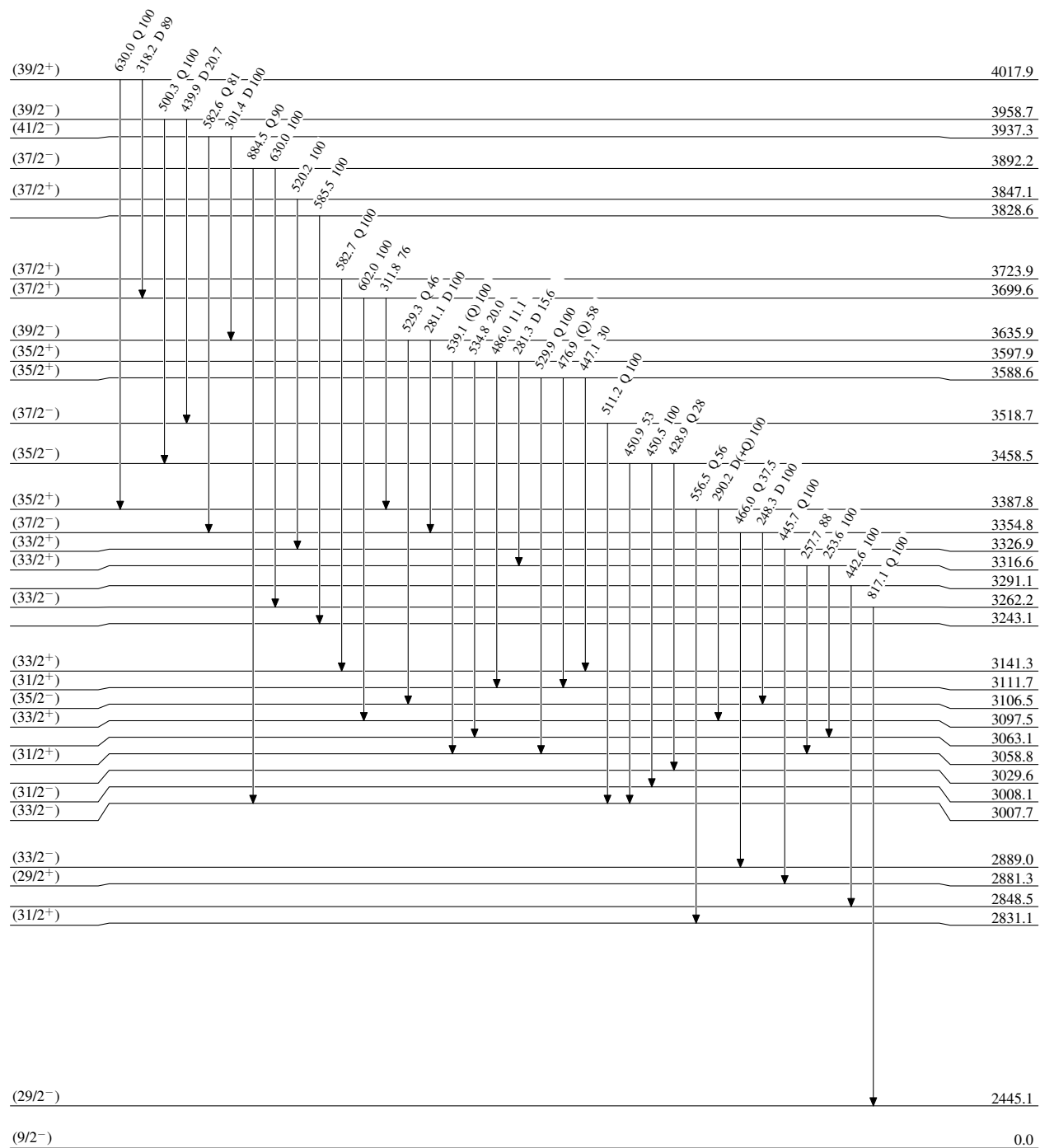
Level Scheme (continued)

Intensities: Relative photon branching from each level



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

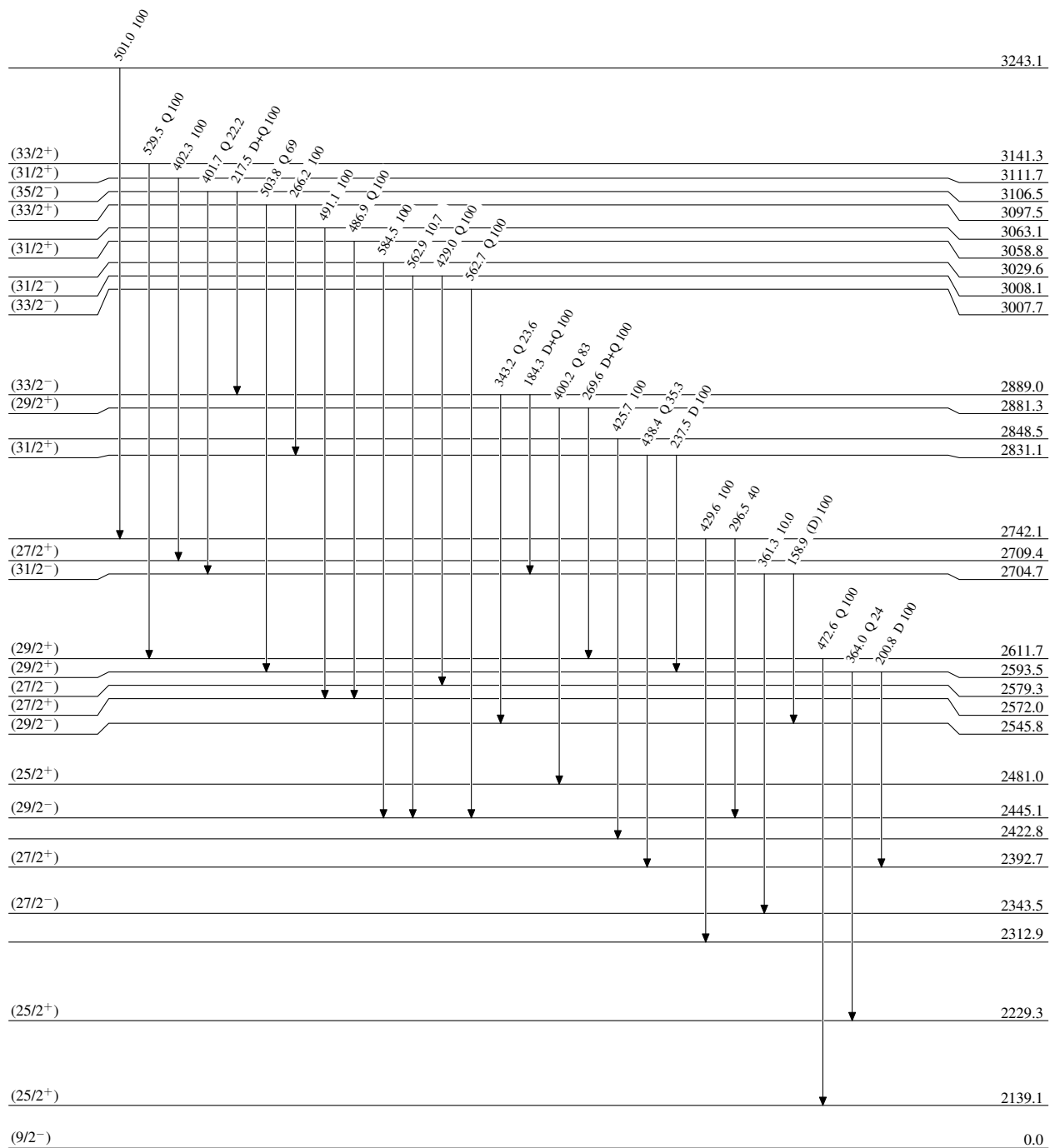
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

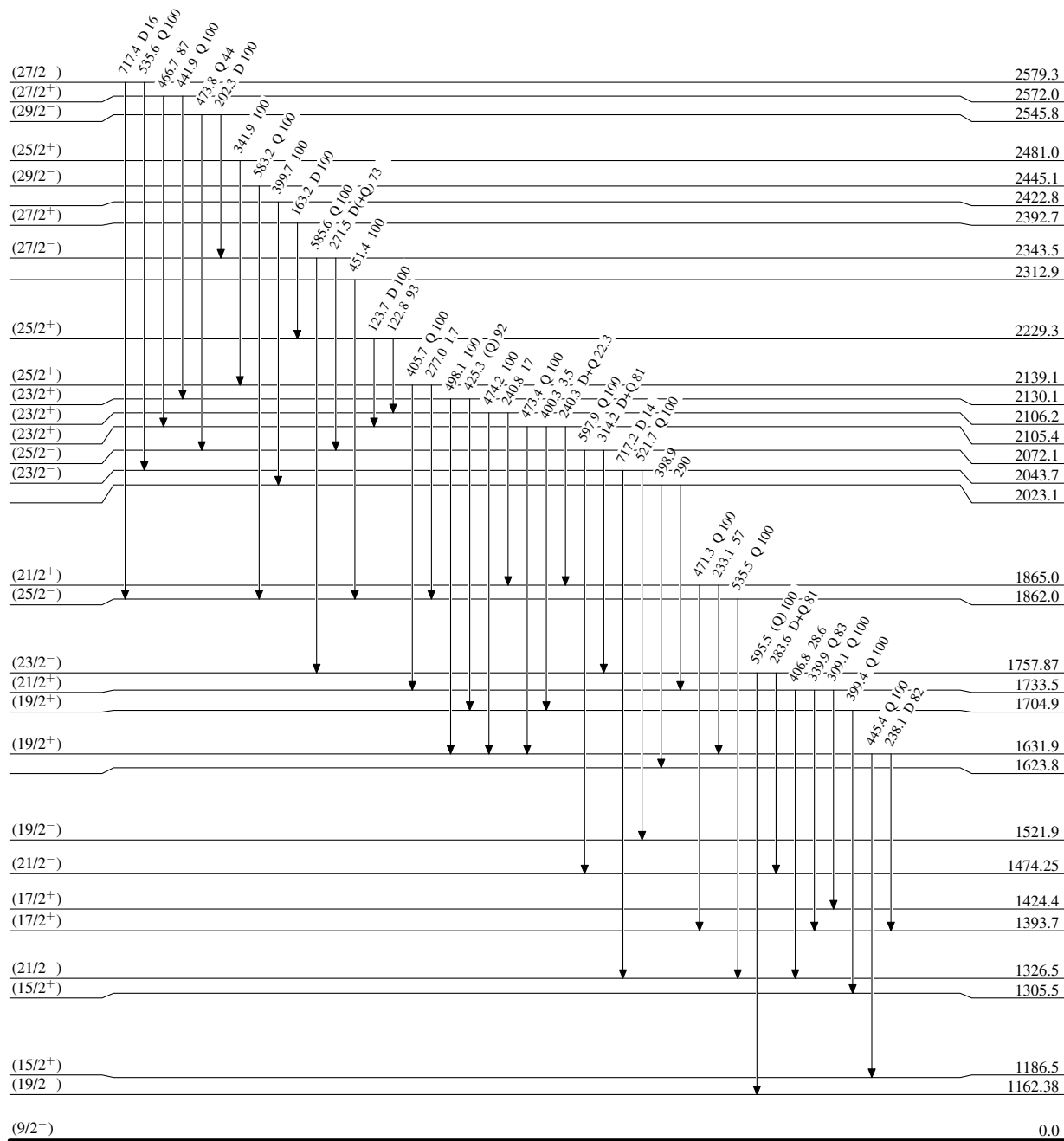
Level Scheme (continued)

Intensities: Relative photon branching from each level



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

Intensities: Relative photon branching from each level

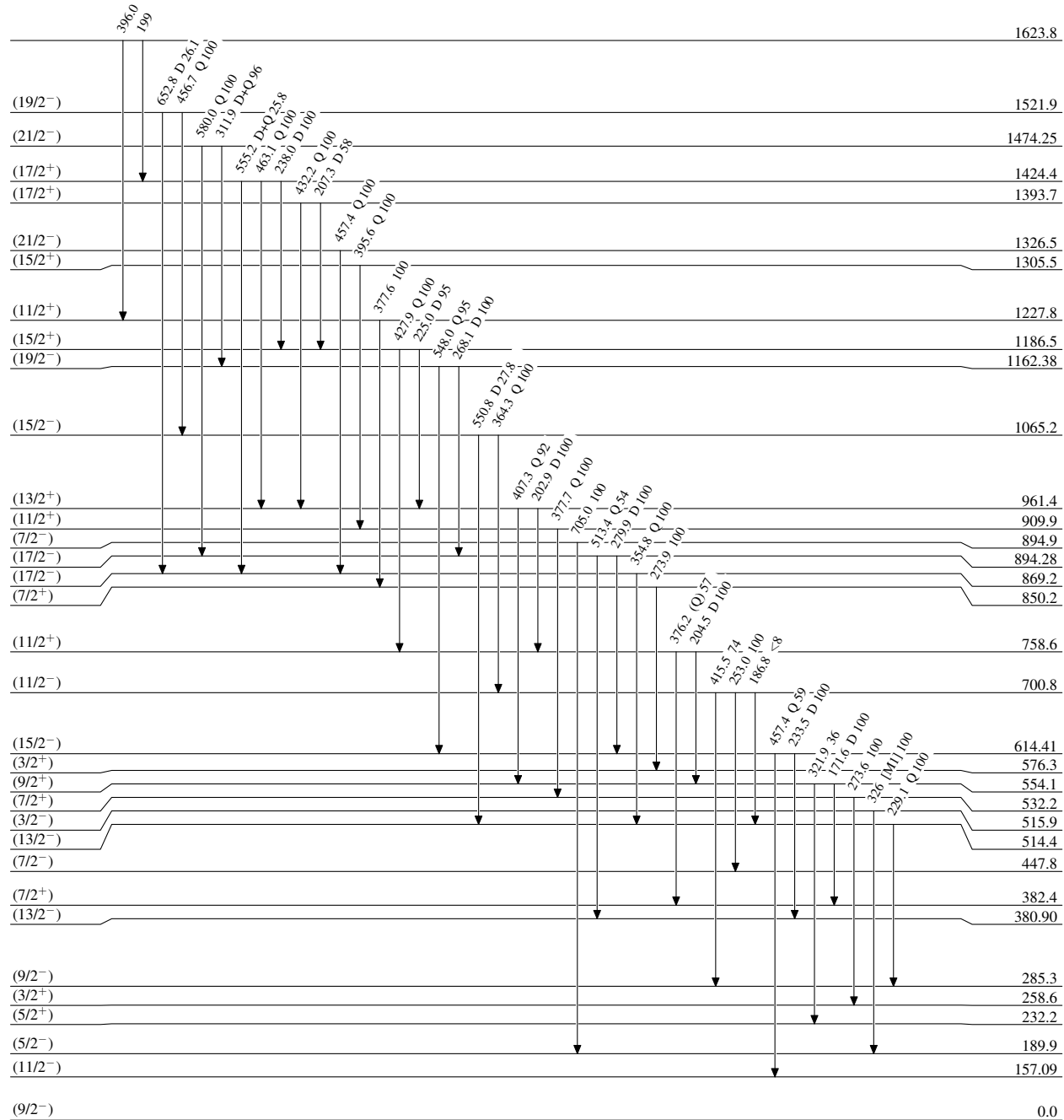


15.2 s 4

Adopted Levels, Gammas

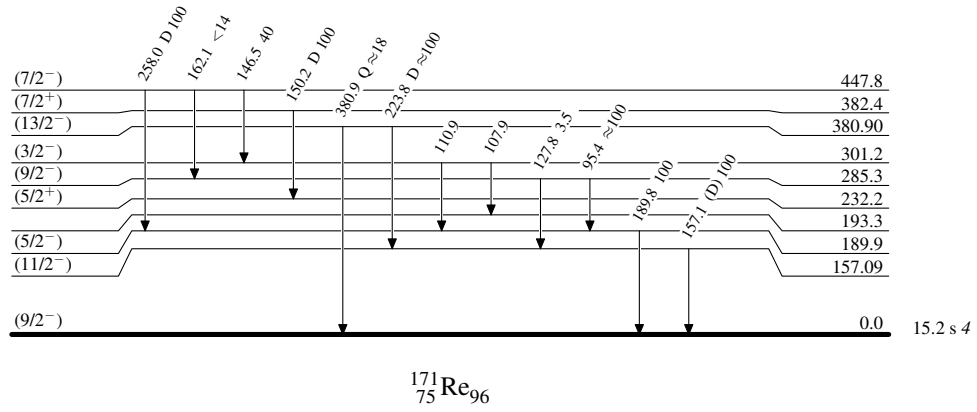
Level Scheme (continued)

Intensities: Relative photon branching from each level

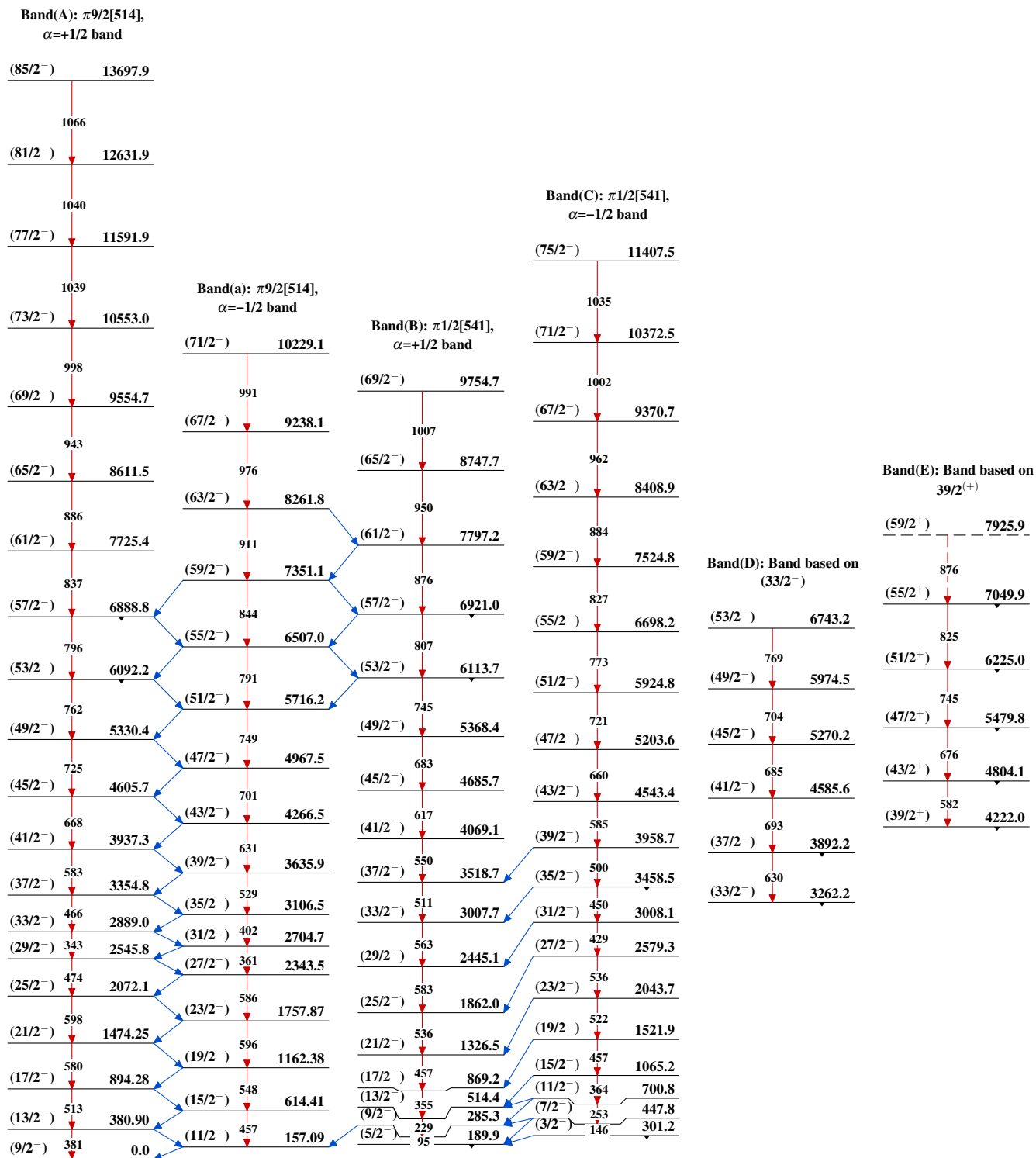


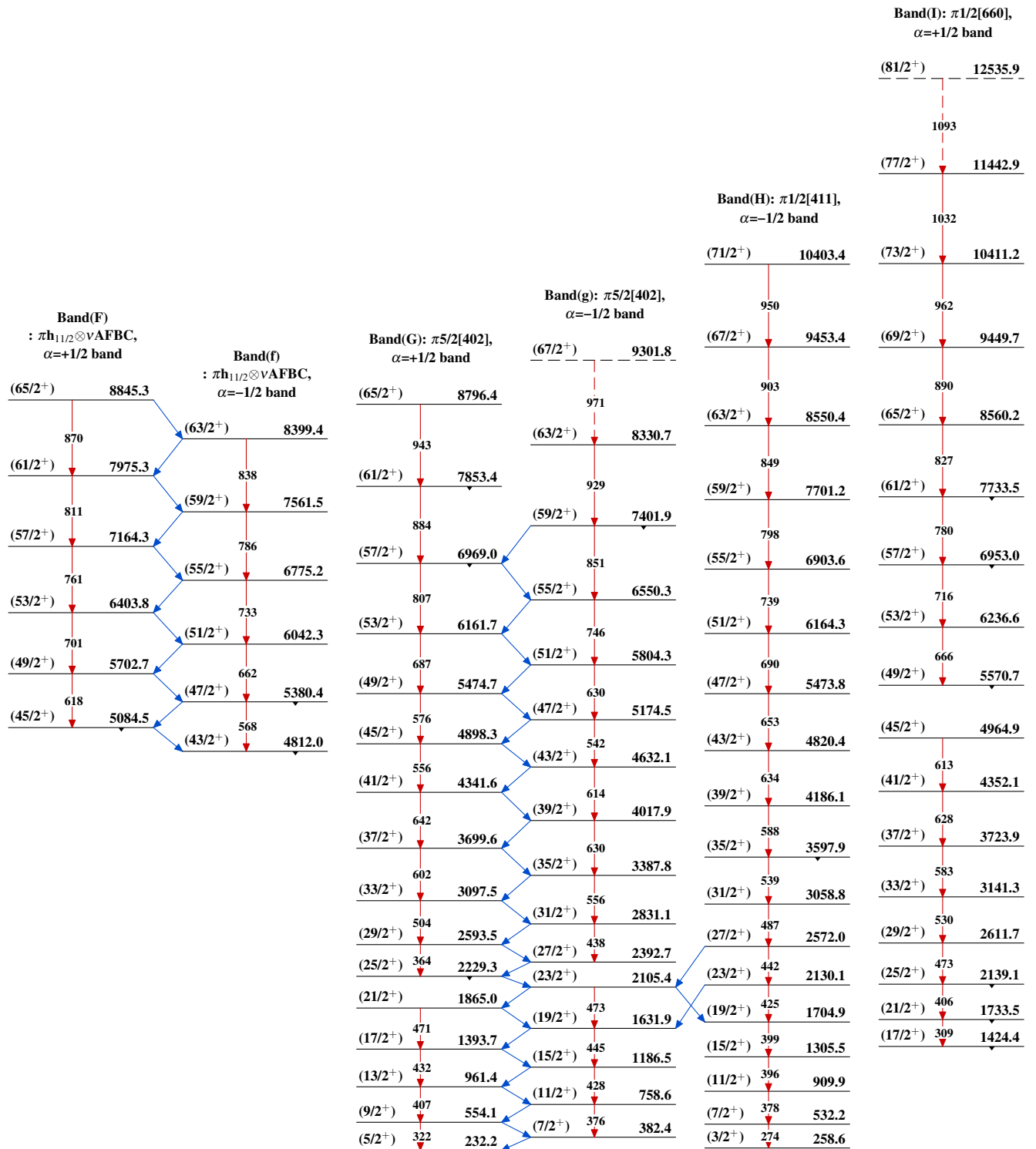
Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level

 $^{171}_{75}\text{Re}_{96}$

Adopted Levels, Gammas

 $^{171}_{75}\text{Re}_{96}$

Adopted Levels, Gammas (continued)

Adopted Levels, Gammas (continued)

		Band(K): Band based on 45/2 ⁺		Band(L): Band based on 27/2 ⁺			
		(77/2 ⁺)	11821.3	(83/2 ⁺)	13235.0		
			1037	(79/2 ⁺)	12176.0		
		(73/2 ⁺)	10784.3		1039		
			978	(75/2 ⁺)	11137.1		
		(69/2 ⁺)	9806.2		998		
			927	(71/2 ⁺)	10139.5		
Band(J): Band based on 25/2 ⁺		(65/2 ⁺)	8879.6		943		
			874	(67/2 ⁺)	9196.2		
(61/2 ⁺)	8173.9	(61/2 ⁺)	8011.7		885		
			868	(63/2 ⁺)	8311.6		
		(57/2 ⁺)	7204.9		820		
			834	(59/2 ⁺)	7492.0		
(53/2 ⁺)	6550.8	(53/2 ⁺)	6451.7		758		
			789	(55/2 ⁺)	6733.9		
		(49/2 ⁺)	5741.4		706		
			756	(51/2 ⁺)	6028.2		
(45/2 ⁺)	5084.7	(45/2 ⁺)	5059.7		666		
			711	(47/2 ⁺)	5362.0		
			650	(43/2 ⁺)	4728.7		
(41/2 ⁺)	4434.3		587	(39/2 ⁺)	4134.5		
			520	(35/2 ⁺)	3588.6		
(37/2 ⁺)	3847.1		446	(31/2 ⁺)	3111.7		
			400	(27/2 ⁺)	2709.4		
(33/2 ⁺)	3326.9					Band(M): Band based on (3/2 ⁺)	
(29/2 ⁺)	2881.3						3291.1
(25/2 ⁺)	2481.0						443 2848.5
							426 2422.8
							400 2023.1
							399 1623.8
							(11/2 ⁺) 396 1227.8
							(7/2 ⁺) 378 850.2
							(3/2 ⁺) 274 576.3