

$^{85}\text{Rb}(n,\gamma)$ E=thermal 1969Da15,1969Ra10

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh	NDS 124, 1 (2015)	30-Nov-2014

Measured $E\gamma$, $I\gamma$.Other: 1968Ir02: $E\gamma$ and $I\gamma$ of 18 primary γ rays.For n resonances see $^{85}\text{Rb}(n,n),(n,\gamma)$:resonances dataset.The level scheme is essentially that proposed by 1969Da15, with the addition of proposed (in a previous evaluation 1978Te01) placements of several other γ rays based on energy sums. **^{86}Rb Levels**

E(level)	J^π †	T _{1/2}	E(level)	J^π †
0.0	2 ⁻		1926.1 18	
488.1 4	1 ⁺		1953.1 16	
555.4 5	6 ⁻	1.017 min 3	2130.5 5	(⁻)
557.0 3	(3) ⁻		2148.4 6	(1,2,3) ⁺
779.3? ^{&} 11	(7) ⁻		2179.7 6	(1 ⁺ ,2 ⁺ ,3 ⁺)
873.2? [#] 4	3 ⁻ ,4 ⁻		2265.9 7	
978.5 4	3 ⁻ ,4 ⁻		2298.9 6	
1027.1 3	1 ⁺ ,2 ⁺ ,3 ⁺		2331.8 18	
1032.7? [‡] 5	(3,4) ⁻		2352.7 9	
1092.4 5	(5) ⁻		2403.4 19	
1105.9 4	(2,3) ⁺		2462.2 6	
1196.2 4	(3,4) ⁻		2476.3 9	
1247.2 10	4 ⁻		2508.2 9	(3 ⁺)
1305.0 3	3 ⁺		2569.9 8	
1309.5? ^{&} 13			2586.3 5	
1389.5 4	(3) ⁺		2598.1 8	1 ⁺
1439.0 4	3 ⁻ ,4 ⁻		2671.0 5	(1,2,3) ⁺
1470.6 5	(2,3) ⁺		2719.0 7	
1501.0 10	(3) ⁺		2765.5 5	
1666.7? [‡] 4	(1,2,3) ⁺		2810.4 9	
1708.3 7	(1,2,3) ⁺		2827.9? ²⁰	
1819.7 4	(3 ⁺ ,4,5 ⁻)		2850.4 7	
1890.0 9	1 ⁺ ,2 ⁺ ,3 ⁺		2890.1 5	
1916.2 13			(8651.0 10)	2 ⁻ ,3 ⁻ @

† From Adopted Levels.

‡ Level added (evaluator) based on particle-transfer results.

Possible multiplet (1969Da15).

@ s-wave capture in ^{85}Rb (g.s. $J^\pi=5/2^-$).& Level population is considered as uncertain (evaluator) due to very weak γ rays connecting these two levels. **$\gamma(^{86}\text{Rb})$**

E γ †	I γ ? ^b	E _i (level)	J $^\pi_i$	E _f	J $^\pi_f$
53.9? ^{&d} 15	1.4 6	1032.7?	(3,4) ⁻	978.5	3 ⁻ ,4 ⁻
60.9? ^{&d} 15	2.3 10	1092.4	(5) ⁻	1032.7?	(3,4) ⁻
85.9 15	1.2 5	1389.5	(3) ⁺	1305.0	3 ⁺
89.6 15	0.2 1	1196.2	(3,4) ⁻	1105.9	(2,3) ⁺

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$^{85}\text{Rb}(n,\gamma)$ E=thermal 1969Da15,1969Ra10 (continued) **$\gamma(^{86}\text{Rb})$ (continued)**

E_γ^\dagger	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.
96.3 ^d 15	0.6 2	1916.2		1819.7	(3+,4,5-)	
114.1 5	1.3 4	1092.4	(5)-	978.5	3-,4-	
120.3 ^d 5	0.7 3	2298.9		2179.7	(1+,2+,3+)	
^x 139.3 10	0.8 3					
165.7 ^d 5	2.0 5	1470.6	(2,3)+	1305.0	3+	
176.1 ^d 15	0.7 3	2508.2	(3+)	2331.8		
198.8 10	0.7 3	1305.0	3+	1105.9	(2,3)+	
223.9 10	0.8 3	779.3?	(7)-	555.4	6-	
232.4 10	0.2 1	1105.9	(2,3)+	873.2	3-,4-	
240.4 ^d 10	1.0 3	2130.5	(-)	1890.0	1+,2+,3+	
284.4 10	0.3 1	1389.5	(3)+	1105.9	(2,3)+	
315.9 5	0.3 1	873.2	3-,4-	557.0	(3)-	
323.1 5	0.5 2	1196.2	(3,4)-	873.2	3-,4-	
361.8 ^c 5	1.4 ^c 5	1389.5	(3)+	1027.1	1+,2+,3+	
361.8 ^{c&d} 5	1.4 ^c 5	1666.7?	(1,2,3)+	1305.0	3+	
421.5 5	5.7 15	978.5	3-,4-	557.0	(3)-	
^x 436.6@	0.32@					
^x 444.6@	0.25@					
^x 448.5@	0.32@					
^x 453.9@	0.20@					
^x 476.0@	7.2@					
487.9 5	11 3	488.1	1+	0.0	2-	
514.8 ^{&d} 5	1.5 5	1819.7	(3+,4,5-)	1305.0	3+	
525.2 ^{ad} 10	0.4 2	1305.0	3+	779.3? (7)-		[M4]
530.0 ^d 10	0.7 3	1309.5?		779.3? (7)-		
536.7 5	3.1 10	1092.4	(5)-	555.4	6-	
538.9 5	3.1 10	1027.1	1+,2+,3+	488.1	1+	
555.3 [#] 5	8.0 20	555.4	6-	0.0	2-	(E4)
557.0 [#] 5	19 5	557.0	(3)-	0.0	2-	
564.9 10	0.6 2	1439.0	3-,4-	873.2	3-,4-	
639.4 ^c 5	2.9 ^c 8	1196.2	(3,4)-	557.0	(3)-	
639.4 ^{c&d} 5	2.9 ^c 8	1666.7?	(1,2,3)+	1027.1	1+,2+,3+	
669.1 ^d 10	0.8 3	1916.2		1247.2	4-	
691.9 10	2.3 6	1247.2	4-	555.4	6-	
^x 709.2@	0.96@					
727.8 ^{&d} 10	1.2 3	1819.7	(3+,4,5-)	1092.4	(5)-	
748.6 10	0.6 2	1305.0	3+	557.0	(3)-	
817.3 15	0.7 2	1305.0	3+	488.1	1+	
^x 856.4@	0.48@					
873.3 5	7.5 20	873.2	3-,4-	0.0	2-	
882.0 5	1.4 5	1439.0	3-,4-	557.0	(3)-	
^x 899.2@	0.60@					
913.8 10	1.9 5	1470.6	(2,3)+	557.0	(3)-	
945.6 10	0.8 3	1501.0	(3)+	557.0	(3)-	
^x 964.1@	0.46@					
^x 981.9@	0.39@					
1026.9 5	7.5 18	1027.1	1+,2+,3+	0.0	2-	
1032.8 ^{&d} 5	5.9 18	1032.7?	(3,4)-	0.0	2-	
1105.7 10	4.7 15	1105.9	(2,3)+	0.0	2-	

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$^{85}\text{Rb}(n,\gamma)$ E=thermal 1969Da15,1969Ra10 (continued) **$\gamma(^{86}\text{Rb})$ (continued)**

E_γ^\dagger	$I_\gamma^{\frac{1}{2}b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
$^{x}1139.5^{\textcolor{blue}{@}}$	0.46 $^{\textcolor{blue}{@}}$				
$^{x}1162.1^{\textcolor{blue}{@}}$	0.44 $^{\textcolor{blue}{@}}$				
1177.8 $^{\textcolor{blue}{&d}}$ 10	1.0 3	1666.7?	(1,2,3) ⁺	488.1	1 ⁺
1221.0 $^{\textcolor{blue}{&d}}$ 10	1.1 3	1708.3	(1,2,3) ⁺	488.1	1 ⁺
1305.4 5	4.9 15	1305.0	3 ⁺	0.0	2 ⁻
1390.2 10	2.0 5	1389.5	(3) ⁺	0.0	2 ⁻
$^{x}1404.2^{\textcolor{blue}{@}}$	2.4 $^{\textcolor{blue}{@}}$				
1440.0 10	1.0 3	1439.0	3 ⁻ ,4 ⁻	0.0	2 ⁻
$^{x}1486.4^{\textcolor{blue}{@}}$	2.1 $^{\textcolor{blue}{@}}$				
$^{x}1575.5^{\textcolor{blue}{@}}$	1.8 $^{\textcolor{blue}{@}}$				
$^{x}1587.2^{\textcolor{blue}{@}}$	1.2 $^{\textcolor{blue}{@}}$				
$^{x}1631.7^{\textcolor{blue}{@}}$	1.8 $^{\textcolor{blue}{@}}$				
1667.9 $^{\textcolor{blue}{&d}}$ 15	2.0 5	1666.7?	(1,2,3) ⁺	0.0	2 ⁻
$^{x}1714.6^{\textcolor{blue}{@}}$ 10	0.66 $^{\textcolor{blue}{@}}$				
$^{x}1781.8^{\textcolor{blue}{@}}$ 10	1.0 $^{\textcolor{blue}{@}}$				
$^{x}1806.1^{\textcolor{blue}{@}}$ 10	0.8 $^{\textcolor{blue}{@}}$				
$^{x}1857.0^{\textcolor{blue}{@}}$ 10	0.9 $^{\textcolor{blue}{@}}$				
$^{x}1871.9^{\textcolor{blue}{@}}$ 10	0.43 $^{\textcolor{blue}{@}}$				
1889.3 $^{\textcolor{blue}{@}}$ $^{\textcolor{blue}{&d}}$ 10	3.8 $^{\textcolor{blue}{@}}$ 8	1890.0	1 ⁺ ,2 ⁺ ,3 ⁺	0.0	2 ⁻
$^{x}1973.0^{\textcolor{blue}{@}}$ 10	0.45 $^{\textcolor{blue}{@}}$				
$^{x}1984.6^{\textcolor{blue}{@}}$ 10	0.5 $^{\textcolor{blue}{@}}$				
$^{x}2006.9^{\textcolor{blue}{@}}$ 10	0.6 $^{\textcolor{blue}{@}}$				
$^{x}2037.5^{\textcolor{blue}{@}}$ 10	0.5 $^{\textcolor{blue}{@}}$				
$^{x}2082.0^{\textcolor{blue}{@}}$ 10	0.3 $^{\textcolor{blue}{@}}$				
2130.0 $^{\textcolor{blue}{@}}$ $^{\textcolor{blue}{&d}}$ 10	0.7 $^{\textcolor{blue}{@}}$ I	2130.5	(⁻)	0.0	2 ⁻
2149.7 $^{\textcolor{blue}{@}}$ $^{\textcolor{blue}{&d}}$ 10	0.7 $^{\textcolor{blue}{@}}$ I	2148.4	(1,2,3) ⁺	0.0	2 ⁻
$^{x}2170.2^{\textcolor{blue}{@}}$ 10	0.28 $^{\textcolor{blue}{@}}$				
$^{x}2176.8^{\textcolor{blue}{@}}$ 10	1.9 $^{\textcolor{blue}{@}}$				
$^{x}2303.1^{\textcolor{blue}{@}}$ 10	0.27 $^{\textcolor{blue}{@}}$				
$^{x}2310.2^{\textcolor{blue}{@}}$ 10	0.30 $^{\textcolor{blue}{@}}$				
$^{x}2320.8^{\textcolor{blue}{@}}$ 10	0.43 $^{\textcolor{blue}{@}}$				
$^{x}2346.5^{\textcolor{blue}{@}}$ 10	0.28 $^{\textcolor{blue}{@}}$				
2352.5 $^{\textcolor{blue}{@}}$ $^{\textcolor{blue}{&d}}$ 10	0.3 $^{\textcolor{blue}{@}}$ I	2352.7		0.0	2 ⁻
$^{x}2364.0^{\textcolor{blue}{@}}$ 10	0.34 $^{\textcolor{blue}{@}}$				
$^{x}2387.0^{\textcolor{blue}{@}}$ 10	0.36 $^{\textcolor{blue}{@}}$				
2475.7 $^{\textcolor{blue}{@}}$ $^{\textcolor{blue}{&d}}$ 10	0.3 $^{\textcolor{blue}{@}}$ I	2476.3		0.0	2 ⁻
$^{x}2500.0^{\textcolor{blue}{@}}$ 10	0.34 $^{\textcolor{blue}{@}}$				
$^{x}2532.0^{\textcolor{blue}{@}}$ 10	0.27 $^{\textcolor{blue}{@}}$				
$^{x}2548.1^{\textcolor{blue}{@}}$ 10	0.36 $^{\textcolor{blue}{@}}$				
2570.4 $^{\textcolor{blue}{@}}$ $^{\textcolor{blue}{&d}}$ 10	0.4 $^{\textcolor{blue}{@}}$ I	2569.9		0.0	2 ⁻
2585.7 $^{\textcolor{blue}{@}}$ $^{\textcolor{blue}{&d}}$ 10	0.5 $^{\textcolor{blue}{@}}$ I	2586.3		0.0	2 ⁻
2598.1 $^{\textcolor{blue}{@}}$ $^{\textcolor{blue}{&d}}$ 10	0.20 $^{\textcolor{blue}{@}}$ 4	2598.1	1 ⁺	0.0	2 ⁻
$^{x}2615.6^{\textcolor{blue}{@}}$ 10	0.15 $^{\textcolor{blue}{@}}$				
$^{x}2642.3^{\textcolor{blue}{@}}$ 10	0.16 $^{\textcolor{blue}{@}}$				
$^{x}2661.8^{\textcolor{blue}{@}}$ 10	0.16 $^{\textcolor{blue}{@}}$				

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$^{85}\text{Rb}(n,\gamma)$ E=thermal 1969Da15,1969Ra10 (continued) $\gamma(^{86}\text{Rb})$ (continued)

E_γ^\dagger	$I_\gamma^{\frac{1}{2}b}$	$E_i(\text{level})$	E_γ^\dagger	$I_\gamma^{\frac{1}{2}b}$	$E_i(\text{level})$	J_i^π	E_f
$x2688.0 @ 10$	0.20 @		$x4287.8 @ 10$	0.12 @			
$x2708.2 @ 10$	0.39 @		$x4319.0 @ 10$	0.20 @			
$x2728.4 @ 10$	0.12 @		$x4360.7 @ 10$	0.11 @			
$x2759.2 @ 10$	0.13 @		$x4386.0 @ 10$	0.37 @			
$x2784.0 @ 10$	0.20 @		$x4403.2 @ 10$	0.27 @			
$x2797.0 @ 10$	0.12 @		$x4450.7 @ 10$	0.20 @			
$x2858.9 @ 10$	0.30 @		$x4497.2 @ 10$	0.12 @			
$x2877.4 @ 10$	0.44 @		$x4515.3 @ 10$	0.09 @			
$x2924.8 @ 10$	0.11 @		$x4532.0 @ 10$	0.13 @			
$x2977.6 @ 10$	0.22 @		$x4551.3 @ 10$	0.24 @			
$x3054.5 @ 10$	0.12 @		$x4570.9 @ 10$	0.11 @			
$x3067.5 @ 10$	0.21 @		$x4586.4 @ 10$	0.15 @			
$x3106.0 @ 10$	0.36 @		$x4598.6 @ 10$	0.16 @			
$x3130.2 @ 10$	0.18 @		$x4620.9 @ 10$	0.09 @			
$x3136.2 @ 10$	0.12 @		$x4641.6 @ 10$	0.09 @			
$x3157.3 @ 10$	0.20 @		$x4656.0 @ 10$	0.12 @			
$x3198.2 @ 10$	0.11 @		$x4690.5 @ 10$	0.15 @			
$x3222.3 @ 10$	0.37 @		$x4735.5 @ 10$	0.13 @			
$x3245.7 @ 10$	0.27 @		$x4759.6 @ 10$	0.11 @			
$x3284.3 @ 10$	0.20 @		$x4784.2 @ 10$	0.12 @			
$x3310.7 @ 10$	0.12 @		$x4844.0 @ 10$	0.12 @			
$x3332.8 @ 10$	0.09 @		$x4875.3 @ 10$	0.06 @			
$x3354.5 @ 10$	0.13 @		$x4966.0 @ 10$	0.07 @			
$x3391.0 @ 10$	0.24 @		$x4985.3 @ 10$	0.13 @			
$x3413.7 @ 10$	0.11 @		$x5012.7 @ 10$	0.06 @			
$x3431.1 @ 10$	0.15 @		$x5029.5 @ 10$	0.12 @			
$x3485.6 @ 10$	0.18 @		$x5049.3 @ 10$	0.15 @			
$x3542.4 @ 10$	0.21 @		$x5130.0 @ 10$	0.06 @			
$x3602.1 @ 10$	0.15 @		$x5159.2 @ 10$	0.18 @			
$x3620.7 @ 10$	0.16 @		$x5222.1 @ 10$	0.15 @			
$x3644.2 @ 10$	0.16 @		$x5255.8 @ 10$	0.06 @			
$x3659.1 @ 10$	0.20 @		$x5309.4 @ 10$	0.10 @			
$x3708.0 @ 10$	0.39 @		$x5353.1 @ 10$	0.06 @			
$x3733.3 @ 10$	0.12 @		$x5384.3 @ 10$	0.37 @			
$x3762.7 @ 10$	0.13 @		$x5401.5 @ 10$	0.30 @			
$x3796.9 @ 10$	0.20 @		$x5424.7 @ 10$	0.10 @			
$x3808.1 @ 10$	0.12 @		$x5473.1 @ 10$	0.31 @			
$x3824.4 @ 10$	0.30 @		$x5517.5 @ 10$	0.39 @			
$x3877.3 @ 10$	0.44 @		$x5617.1 @ 10$	0.06 @			
$x3932.7 @ 10$	0.11 @		$x5637.5 @ 10$	0.21 @			
$x3980.0 @ 10$	0.22 @		$x5678.0 @ 10$	0.12 @			
$x3992.6 @ 10$	0.12 @		$x5697.3 @ 10$	0.06 @			
$x4027.3 @ 10$	0.21 @		$x5702.4 @ 10$	0.09 @			
$x4150.3 @ 10$	0.36 @		$x5728.2 @ 10$	0.30 @			
$x4248.6 @ 10$	0.18 @		5760.7 5	0.97 25	(8651.0) 2-,3-	2890.1	

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$^{85}\text{Rb}(n,\gamma)$ E=thermal 1969Da15,1969Ra10 (continued) **$\gamma(^{86}\text{Rb})$ (continued)**

E_γ^\dagger	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
5800.4 7	0.33 10	(8651.0)	2 ⁻ ,3 ⁻	2850.4	
5823.2 20	0.03 1	(8651.0)	2 ⁻ ,3 ⁻	2827.9?	
5840.8 9	0.15 7	(8651.0)	2 ⁻ ,3 ⁻	2810.4	
5885.7 5	0.40 10	(8651.0)	2 ⁻ ,3 ⁻	2765.5	
5932.3 7	0.12 4	(8651.0)	2 ⁻ ,3 ⁻	2719.0	
5980.2 5	0.72 15	(8651.0)	2 ⁻ ,3 ⁻	2671.0	(1,2,3) ⁺
^x 6032.2 @ 10	0.06 @				
6052.9 8	0.26 7	(8651.0)	2 ⁻ ,3 ⁻	2598.1	1 ⁺
6064.5 5	0.84 15	(8651.0)	2 ⁻ ,3 ⁻	2586.3	
6081.9 12	0.11 4	(8651.0)	2 ⁻ ,3 ⁻	2569.9	
6142.7 8	0.18 5	(8651.0)	2 ⁻ ,3 ⁻	2508.2	(3 ⁺)
6173.3 15	0.12 4	(8651.0)	2 ⁻ ,3 ⁻	2476.3	
6188.7 5	0.68 15	(8651.0)	2 ⁻ ,3 ⁻	2462.2	
^x 6234.7 @ 10	0.09 @				
6247.5 18	0.07 3	(8651.0)	2 ⁻ ,3 ⁻	2403.4	
^x 6274.1 @ 10	0.13 @				
6297.7 15	0.09 3	(8651.0)	2 ⁻ ,3 ⁻	2352.7	
6319.1 17	0.07 3	(8651.0)	2 ⁻ ,3 ⁻	2331.8	
6352.0 5	0.38 10	(8651.0)	2 ⁻ ,3 ⁻	2298.9	
6385.0 6	0.43 10	(8651.0)	2 ⁻ ,3 ⁻	2265.9	
^x 6418.4 @ 10	0.24 @				
6471.2 5	0.67 16	(8651.0)	2 ⁻ ,3 ⁻	2179.7	(1 ⁺ ,2 ⁺ ,3 ⁺)
6503.2 7	0.32 8	(8651.0)	2 ⁻ ,3 ⁻	2148.4	(1,2,3) ⁺
6520.3 5	1.17 25	(8651.0)	2 ⁻ ,3 ⁻	2130.5	(-)
^x 6550.4 @ 10	0.13 @				
^x 6567.4 @ 10	0.12 @				
^x 6601.3 @ 10	0.11 @				
^x 6619.9 @ 10	0.25 @				
6697.8 15	0.19 5	(8651.0)	2 ⁻ ,3 ⁻	1953.1	
^x 6706.9 @ 10	0.09 @				
6724.8 17	0.17 4	(8651.0)	2 ⁻ ,3 ⁻	1926.1	
6735.5 25	0.11 4	(8651.0)	2 ⁻ ,3 ⁻	1916.2	
6759.4 15	0.17 5	(8651.0)	2 ⁻ ,3 ⁻	1890.0	1 ⁺ ,2 ⁺ ,3 ⁺
6831.4 5	1.10 25	(8651.0)	2 ⁻ ,3 ⁻	1819.7	(3 ⁺ ,4,5 ⁻)
^x 6915.8 @ 10	0.28 @				
6943.0 7	0.20 5	(8651.0)	2 ⁻ ,3 ⁻	1708.3	(1,2,3) ⁺
^x 7151.0 @ 10	0.11 @				
7180.7 10	0.11 4	(8651.0)	2 ⁻ ,3 ⁻	1470.6	(2,3) ⁺
7211.8 6	0.30 7	(8651.0)	2 ⁻ ,3 ⁻	1439.0	3 ⁻ ,4 ⁻
7261.2 6	0.24 6	(8651.0)	2 ⁻ ,3 ⁻	1389.5	(3) ⁺
^x 7278.2 @ 10	0.15 @				
^x 7306.8 @ 10	0.22 @				
7345.8 5	1.10 25	(8651.0)	2 ⁻ ,3 ⁻	1305.0	3 ⁺
^x 7415.3 @ 10	0.51 @				
^x 7438.5 @ 10	0.09 @				
7455.3 10	0.13 4	(8651.0)	2 ⁻ ,3 ⁻	1196.2	(3,4) ⁻
7544.0 7	0.24 6	(8651.0)	2 ⁻ ,3 ⁻	1105.9	(2,3) ⁺
7623.9 4	2.05 40	(8651.0)	2 ⁻ ,3 ⁻	1027.1	1 ⁺ ,2 ⁺ ,3 ⁺
7672.2 9	0.12 4	(8651.0)	2 ⁻ ,3 ⁻	978.5	3 ⁻ ,4 ⁻
7776.1 20	0.04 2	(8651.0)	2 ⁻ ,3 ⁻	873.2	3 ⁻ ,4 ⁻
8093.8 5	0.30 10	(8651.0)	2 ⁻ ,3 ⁻	557.0	(3) ⁻

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$^{85}\text{Rb}(n,\gamma)$ E=thermal 1969Da15,1969Ra10 (continued) $\gamma(^{86}\text{Rb})$ (continued)

E_γ^\dagger	$I_\gamma^{\ddagger b}$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
8161.5 15	0.08 3	(8651.0)	$2^-, 3^-$	488.1	1^+
8650.7 7	0.35 8	(8651.0)	$2^-, 3^-$	0.0	2^-

[†] Weighted average of 1969Da15 and 1969Ra10 for primary $E\gamma$ values. Secondary $E\gamma$ values are from 1969Da15. As noted in an earlier evaluation (1971Au13), large differences exist between the γ -ray data from 1969Da15 and 1969Ra10.

[‡] Photons per 100 neutron captures (from 1969Da15).

[#] Doublet observed with a separation of 1.5 keV 2 (1969Da15).

[@] γ from 1969Ra10 only. Intensities are multiplied by 1.5 to bring them into approximate agreement with those of 1969Da15.

Existence of this γ ray may be considered as uncertain for lack of confirmatory published data.

[&] Tentative placement proposed by evaluator. The transition is either unplaced in 1969Da15 or it is singly placed.

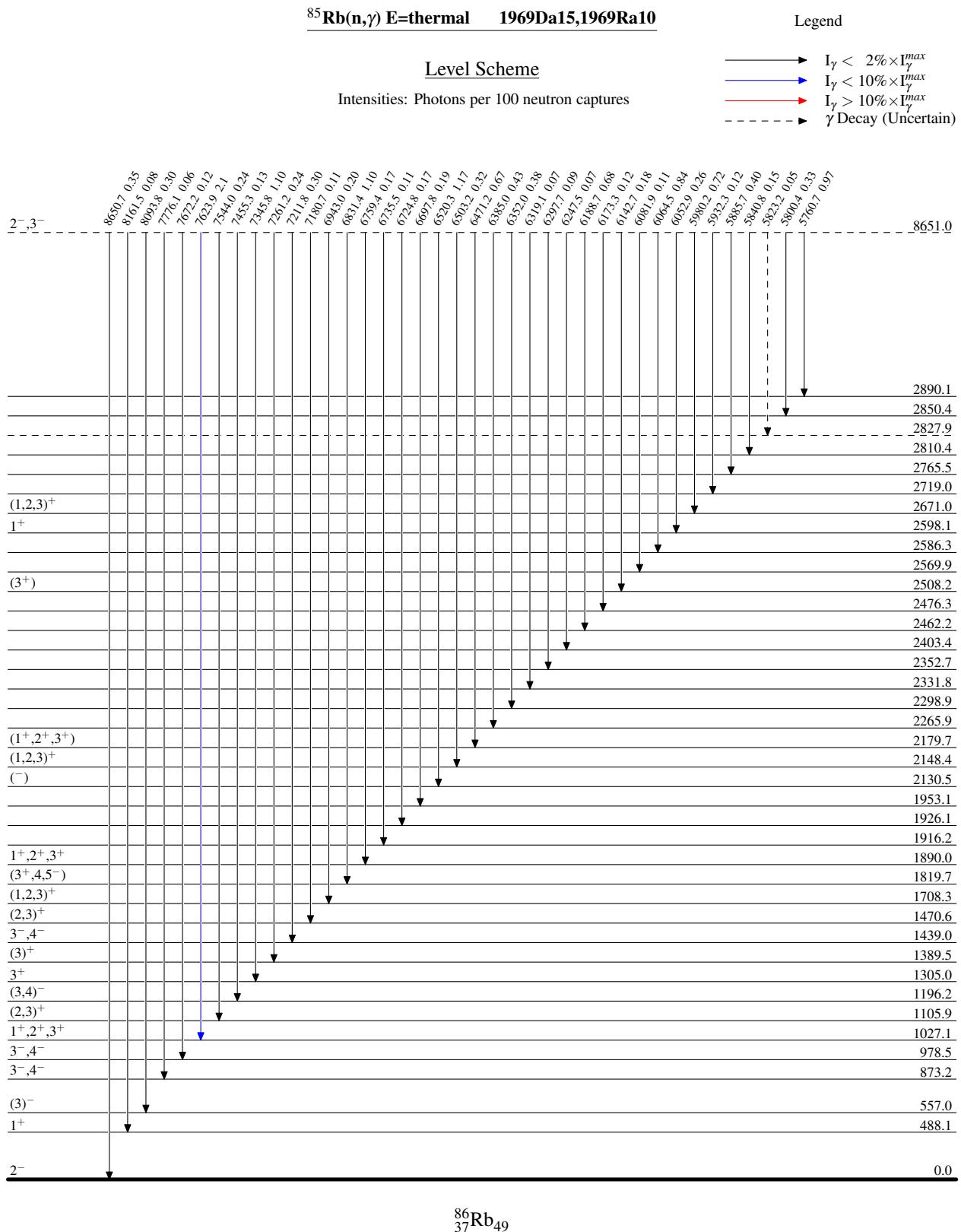
^a Transition to $(7)^-$ with implied multipolarity of M4 is considered highly suspect.

^b Intensity per 100 neutron captures.

^c Multiply placed with undivided intensity.

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

^x γ ray not placed in level scheme.



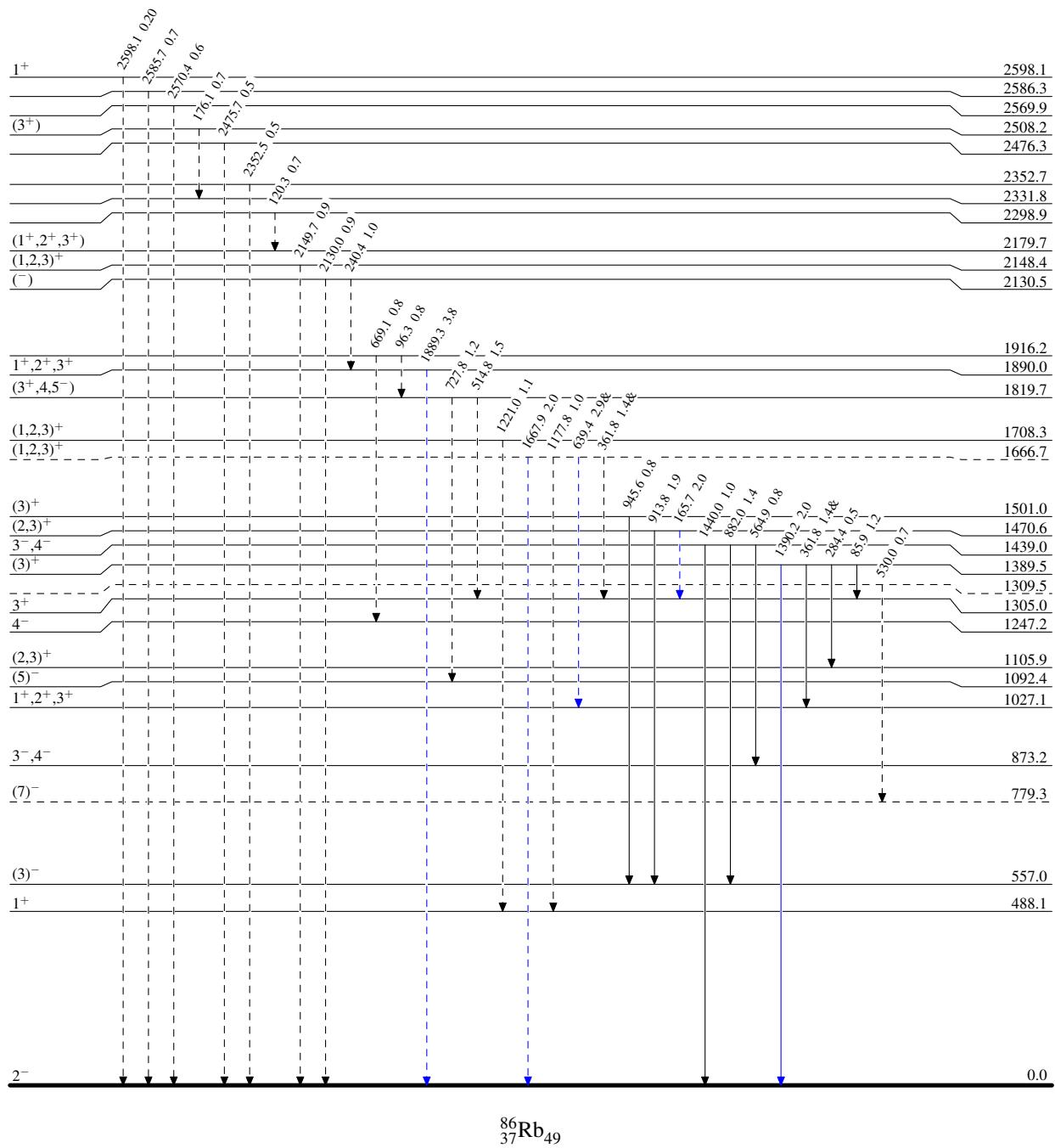
$^{85}\text{Rb}(\text{n},\gamma)$ E=thermal 1969Da15,1969Ra10

Level Scheme (continued)

Intensities: Photons per 100 neutron captures
 & Multiply placed: undivided intensity given

Legend

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



$^{85}\text{Rb}(\text{n},\gamma)$ E=thermal 1969Da15,1969Ra10

Legend

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

Level Scheme (continued)

Intensities: Photons per 100 neutron captures
 & Multiply placed: undivided intensity given

