

**Adopted Levels, Gammas**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 112,1163 (2011)	15-Dec-2010

Q( $\beta^-$ )=4142 12; S(n)=5290 9; S(p)=12602 10; Q( $\alpha$ )=-5975 8 [2012Wa38](#)  
 Note: Current evaluation has used the following Q record 4140 12 5290 8 12601 10 -5975 8 [2003Au03,2009AuZZ](#).  
 Q( $\beta^-$ ), S(n), S(p), Q( $\alpha$ ): from [2009AuZZ](#) (cf. 4139 12, 5288 8, 12602 10, -5780 50, respectively, from [2003Au03](#)).  
 Q( $\beta^-n$ )=- 3341 12 ([2009AuZZ](#)) (cf.-3343 12 ([2003Au03](#))).  
 For calculation of one-quasiparticle states, see [2010Ro27](#).

<sup>93</sup>Sr Levels

E(Z),J(Z) Total absorption  $\gamma$  spectrometry data in <sup>93</sup>Rb  $\beta^-$  decay indicate  $\beta^-$  population of level(s) at, or near, this energy. However, the  $\beta$  feeding is very much weaker than implied by the presence of the transitions shown tentatively deexciting this level. Those gammas are probably misplaced; if so, the stated level energy would no longer be meaningful, but some level(s) would exist within maybe 50 keV of this value. Provided only one level is being fed,  $\log f^{lu}t < 8.5$  so J=3/2,5/2,7/2.

Cross Reference (XREF) Flags

- A <sup>93</sup>Rb  $\beta^-$  decay
- B <sup>94</sup>Rb  $\beta^-n$  decay
- C <sup>252</sup>Cf SF decay

E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	T <sub>1/2</sub>	XREF	Comments
0 <sup>#</sup>	5/2 <sup>+</sup>	7.43 min 3	ABC	$\% \beta^- = 100$ $\mu = -0.7926$ 12; Q=+0.258 11 $\mu$ : from fast ion beam collinear LASER spectroscopy ( <a href="#">1990Bu12</a> and <a href="#">1990Li28</a> ); value relative to <sup>87</sup> Sr. Q: <a href="#">2002Ma09</a> ; revision of Q=0.264 25 from <a href="#">1990Bu12</a> and <a href="#">1990Li28</a> , from collinear fast beam LASER spectroscopy. $\Delta \langle r^2 \rangle$ : 0.590 25 relative to <sup>88</sup> Sr, from collinear fast beam laser spectroscopy ( <a href="#">1990Bu12</a> ). $\langle r^2 \rangle^{1/2}(\text{charge}) = 4.306$ 7 ( <a href="#">2004An14</a> ). J: from hyperfine structure measurements ( <a href="#">1987Bu11</a> ). $\pi$ : from comparison of $\mu$ with Schmidt values for J=5/2. T <sub>1/2</sub> : weighted average of 7.43 min 3 ( <a href="#">1972He41</a> ), 7.41 min 4 ( <a href="#">1986Ok03</a> ), 7.54 min 6 ( <a href="#">1960Fr05</a> ) and 7.32 min 10 ( <a href="#">1969Ca03</a> ). Others: 8.22 min 14 ( <a href="#">1972Eh02</a> ), 6.95 min 7 ( <a href="#">1974Gr29</a> ).
213.431 11	(9/2) <sup>+</sup>	4.3 ns 1	AB	$\mu = -1.02$ 6 ( <a href="#">2004Sa69</a> ) $\mu$ : From g-factor=-0.227 13 ( <a href="#">2004Sa69</a> ; TDPAC) if hyperfine field for Sr in Fe is -23.83 7 tesla and J(213 level)=9/2; note that J=9/2 is highly tentative, however. $J^\pi$ : E2 213 $\gamma$ to 5/2 <sup>+</sup> g.s.; 1566 $\gamma$ from (11/2 <sup>-</sup> ) 1780; $\log ft \geq 7.4$ , $\log f^{lu}t > 8.5$ from 5/2 <sup>+</sup> ; 2558 $\gamma$ from 2771 level (for which $J^\pi = (7/2^-)$ or higher). However, g-factor is similar to that calculated and/or observed for low-lying 3/2 <sup>+</sup> states in neighboring nuclides ( <a href="#">2004Sa69</a> ), and authors assume J=3/2; if $J^\pi(213) = 3/2^+$ , either the 1566 $\gamma$ and 2558 $\gamma$ are misplaced in $\beta^-$ decay or $J^\pi(1780) = (11/2^-)$ is incorrect. T <sub>1/2</sub> : from <a href="#">2004Sa69</a> in $\beta^-$ decay. Others: 4.6 ns 3 ( <a href="#">1986Ka20</a> ), 4.6 ns 5 ( <a href="#">1983Ka41</a> ), 4.6 ns 3 ( <a href="#">1970MaZC</a> ) and 5 ns 1 ( <a href="#">1982Ka03</a> ), all from $\beta^-$ decay.
432.604 24	(5/2,7/2,9/2) <sup>+</sup>	<0.3 ns	AB	$J^\pi$ : M1,E2 433 $\gamma$ to 5/2 <sup>+</sup> ; M1,E2 219 $\gamma$ to (9/2) <sup>+</sup> 213. T <sub>1/2</sub> : from $\beta^-$ decay.
986.12 <sup>#</sup> 5	(9/2) <sup>+</sup>		ABC	

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**Adopted Levels, Gammas (continued)**

<sup>93</sup>Sr Levels (continued)

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	XREF	Comments
1142.55 4	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	AB	J <sup>π</sup> : 1143γ to 5/2 <sup>+</sup> g.s.; 929γ to (9/2) <sup>+</sup> 213.
1148.20 6	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	AB	J <sup>π</sup> : 1148γ to 5/2 <sup>+</sup> g.s.; 934γ to (9/2) <sup>+</sup> 213.
1238.24& 7	(7/2 <sup>+</sup> )	ABC	
1385.31 6		AB	
1529.32 10		AB	
1562.96 9	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : 1350γ to (9/2) <sup>+</sup> 213; 1563γ to 5/2 <sup>+</sup> g.s.
1779.79@ 7	(11/2 <sup>-</sup> )	A C	J <sup>π</sup> : 794γ to (9/2 <sup>+</sup> ) 986; configuration assignment.
1808.44 6	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : 822γ to (9/2 <sup>+</sup> ) 986; 1809γ to 5/2 <sup>+</sup> g.s.
1869.64 7		A	
1910.86 9		A	
2045.57 8		A	
2054.02 9		A	
2072.2& 4	(11/2 <sup>+</sup> )	C	J <sup>π</sup> : intraband 834γ to (7/2 <sup>+</sup> ) 1238; 292γ to (11/2 <sup>-</sup> ) 1780.
2117.46 11		A	J <sup>π</sup> : log ft=7.8, log f <sup>Au</sup> t>8.5 from 5/2 <sup>-</sup> .
2141.07 11	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : log ft=7.4, log f <sup>Au</sup> t>8.5 from 5/2 <sup>-</sup> ; 1928γ to (9/2) <sup>+</sup> 213.
2168.6# 4	(13/2 <sup>+</sup> )	C	
2273.00 12		A	J <sup>π</sup> : 1287γ to (9/2 <sup>+</sup> ) 986, 1035γ to (7/2 <sup>+</sup> ) 1238, so J=(5/2 to 11/2).
2292.87 7	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : 1307γ to (9/2 <sup>+</sup> ) 986; 2293γ to 5/2 <sup>+</sup> g.s.
2319.10 8	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : 1333γ to (9/2 <sup>+</sup> ) 986; log ft=7.4, log f <sup>Au</sup> t>8.5 from 5/2 <sup>-</sup> .
2351.51 11	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : 1365γ to (9/2 <sup>+</sup> ) 986; log ft=7.7, log f <sup>Au</sup> t>8.5 from 5/2 <sup>-</sup> .
2456.44 19		A	
2459.78 13		A	J <sup>π</sup> : 1473γ to (9/2 <sup>+</sup> ) 986.
2530.4 10		C	J <sup>π</sup> : 751γ to (11/2 <sup>-</sup> ) 1780.
2553.80 10		A	J <sup>π</sup> : 1316γ to (7/2 <sup>+</sup> ) 1238.
2621.39 14	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : 1635γ to (9/2 <sup>+</sup> ) 986; log ft=7.2 from 5/2 <sup>-</sup> .
2737.44 17		A	J <sup>π</sup> : 2524γ to (9/2 <sup>+</sup> ) 213.
2770.70 13	(≥7/2)	A	J <sup>π</sup> : 991γ to (11/2 <sup>-</sup> ) 1780, so J <sup>π</sup> =(7/2 <sup>-</sup> ,9/2,11/2,13/2,15/2 <sup>-</sup> ).
2773.99 25		A	
2782.21 11	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : log ft=7.4, log f <sup>Au</sup> t>8.5 from 5/2 <sup>-</sup> ; 2569γ to (9/2) <sup>+</sup> 213.
2869.07 11		A	J <sup>π</sup> : 2869γ to 5/2 <sup>+</sup> g.s.; log ft=7.0, log f <sup>Au</sup> t>8.5 from 5/2 <sup>-</sup> .
2886.46 9		A	J <sup>π</sup> : 2886γ to 5/2 <sup>+</sup> g.s.
2954.3 8	(9/2,11/2,13/2)	C	J <sup>π</sup> : 1175γ to (11/2 <sup>-</sup> ) 1780; 882γ to (11/2 <sup>+</sup> ) 2072.
2979.90 10	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=6.7, log f <sup>Au</sup> t<8.5 from 5/2 <sup>-</sup> .
3100.2@ 8	(15/2 <sup>-</sup> )	C	
3198.14 15		A	
3233.01 14	(7/2 <sup>-</sup> ,9/2 <sup>+</sup> )	A	J <sup>π</sup> : 1453γ to (11/2 <sup>-</sup> ) 1780; log ft=7.3 from 5/2 <sup>-</sup> .
3256.40 12	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	A	J <sup>π</sup> : 2270γ to (9/2 <sup>+</sup> ) 986; log ft=7.2 from 5/2 <sup>-</sup> .
3283.2# 12	(17/2 <sup>+</sup> )	C	
3307.7& 12	(15/2 <sup>+</sup> )	C	
3404.40 21	(5/2 <sup>+</sup> ,7/2)	A	J <sup>π</sup> : 2418γ to (9/2 <sup>+</sup> ) 986; log ft=6.8, log f <sup>Au</sup> t<8.5 from 5/2 <sup>-</sup> .
3481.5 12		C	J <sup>π</sup> : 1409γ to (11/2 <sup>+</sup> ) 2072.
3603.18 11	(5/2 <sup>+</sup> ,7/2)	A	J <sup>π</sup> : 3390γ to (9/2 <sup>+</sup> ) 213; log ft=6.5, log f <sup>Au</sup> t<8.5 from 5/2 <sup>-</sup> .
3623.70 16		A	J <sup>π</sup> : log ft=6.8 from 5/2 <sup>-</sup> .
3772.0 10		C	J <sup>π</sup> : 1992γ to (11/2 <sup>-</sup> ) 1780.
3789.19 14	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=6.5, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> ; 3789γ to 5/2 <sup>+</sup> g.s.
3803.73 9	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>	A	J <sup>π</sup> : log ft=5.7 from J <sup>π</sup> =5/2 <sup>-</sup> .
3847.62 8	(7/2 <sup>-</sup> )	A	J <sup>π</sup> : log ft=5.7 from J <sup>π</sup> =5/2 <sup>-</sup> ; 2861γ to (9/2 <sup>+</sup> ) 986.
3866.87 12	(5/2 <sup>+</sup> ,7/2)	A	J <sup>π</sup> : log ft=6.1, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> ; 2880γ to (9/2 <sup>+</sup> ) 986.
3867.40 8	(7/2 <sup>-</sup> )	A	J <sup>π</sup> : log ft=5.6 from J <sup>π</sup> =5/2 <sup>-</sup> ; 2087γ to (11/2 <sup>-</sup> ) 1780.
3869.9 10		C	J <sup>π</sup> : 2090γ to (11/2 <sup>-</sup> ) 1780.
3876.82 10	(5/2 <sup>+</sup> ,7/2)	A	J <sup>π</sup> : log ft=6.0, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> ; 2890γ to (9/2 <sup>+</sup> ) 986.
3880.9# 16	(21/2 <sup>+</sup> )	C	

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**Adopted Levels, Gammas (continued)**

<sup>93</sup>Sr Levels (continued)

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	XREF	Comments
3890.64 10	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>	A	J <sup>π</sup> : log ft=5.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
3934.66 12	(5/2 <sup>+</sup> ,7/2)	A	J <sup>π</sup> : log ft=5.9, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> ; 3722γ to (9/2) <sup>+</sup> 213.
3954.94 8	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=5.9, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4017.60 15	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=6.3, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4037.86 10	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=5.8, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4037.9 10		C	J <sup>π</sup> : 2258γ to (11/2 <sup>-</sup> ) 1780.
4041.9 3		A	J <sup>π</sup> : 2262γ to (11/2 <sup>-</sup> ) 1780.
4097.43 12	(7/2 <sup>-</sup> )	A	J <sup>π</sup> : log ft=5.8, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> ; 3884γ to (9/2) <sup>+</sup> 213.
4156.4 10		C	J <sup>π</sup> : 2377γ to (11/2 <sup>-</sup> ) 1780.
4336.12 24	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=6.4, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4461.10 15	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=6.0, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4470.8 16		C	
4509.26 12	3/2 <sup>(-)</sup> ,5/2,7/2	A	J <sup>π</sup> : log ft=6.2, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> ; 662γ to (7/2) <sup>-</sup> 3848.
4577.6 3	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=6.1, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4596.8& 16	(19/2 <sup>+</sup> )	C	1289γ to (15/2 <sup>+</sup> ) 3308.
4620.20 16	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>	A	J <sup>π</sup> : log ft=5.7, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4714.64 13	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=5.8, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4790.38 25	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=6.1, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
4797.0# 19	(25/2 <sup>+</sup> )	C	916γ to (21/2 <sup>+</sup> ) 3881.
4913.09 13	(7/2 <sup>-</sup> )	A	J <sup>π</sup> : log ft=5.5 from J <sup>π</sup> =5/2 <sup>-</sup> ; 3133γ to (11/2 <sup>-</sup> ) 1780.
4991.28 14	(7/2 <sup>-</sup> )	A	J <sup>π</sup> : log ft=5.8, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> ; 3212γ to (11/2 <sup>-</sup> ) 1780.
5012.24 14	3/2,5/2,7/2	A	J <sup>π</sup> : log ft=5.9, log f <sup>Au</sup> t<8.5 from J <sup>π</sup> =5/2 <sup>-</sup> .
5333.9 19		C	
5384.67 12	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>	A	J <sup>π</sup> : log ft=5.2 from J <sup>π</sup> =5/2 <sup>-</sup> .
5395.5 4	(5/2 <sup>-</sup> ,7/2 <sup>-</sup> )	A	J <sup>π</sup> : log ft≈5.8 from J <sup>π</sup> =5/2 <sup>-</sup> ; 4157γ to (7/2 <sup>+</sup> ) 1238.
5413.6 3	3/2 <sup>(-)</sup> to 7/2 <sup>(-)</sup>	A	J <sup>π</sup> : log ft=5.6 2 from J <sup>π</sup> =5/2 <sup>-</sup> .
5601.3? 9		A	
5631.2? 9		A	
5775.5? 4		A	
6000.51? 16		A	
6096.7? 3		A	
6260.73? 21		A	
6272.70? 21		A	
6277.40? 22		A	
6707.42? 22		A	

<sup>†</sup> From least-squares fit to E<sub>γ</sub>, except as noted; transitions with uncertain placement are omitted from the fit unless all transitions deexciting a given level are of this character, and 1 keV uncertainty is assumed for transitions for which the authors failed to state an uncertainty. Note that additional levels exist in the vicinity of 4250 keV and 5200 keV as evidenced by the β<sup>-</sup> strength distribution deduced from absorption γ spectrometry (see <sup>93</sup>Rb β<sup>-</sup> decay); these are not included here because specific energies have not been determined. Tentative E(level) values proposed for n-emitting levels in <sup>93</sup>Rb β<sup>-</sup>n decay (E=5300-6600) have also been omitted here.

<sup>‡</sup> Values given without comment are very tentative suggestions from 2003Hw01 in <sup>252</sup>Cf SF decay; they are based on the correspondence between level energies in <sup>93</sup>Sr and the yrast levels of <sup>94</sup>Sr which suggests a weak stretched or 'stretched-minus-one' coupling of a d<sub>5/2</sub> neutron hole to levels in a <sup>94</sup>Sr core. Note that a number of J<sup>π</sup> values shown here depend critically on tentative assignments of (9/2)<sup>+</sup> and (11/2<sup>-</sup>) to the 213 and 1780 levels, respectively.

# Band(A): 5/2<sup>+</sup> yrast band. Possible (stretched) coupling of (ν d<sub>5/2</sub>)<sup>-1</sup> to <sup>94</sup>Sr core.

@ Band(B): (11/2<sup>-</sup>) band. Possible coupling of (ν d<sub>5/2</sub>)<sup>-1</sup> to octupole state in <sup>94</sup>Sr core.

& Band(C): (7/2<sup>+</sup>) band. Possible (stretched-1) coupling of (ν d<sub>5/2</sub>)<sup>-1</sup> to <sup>94</sup>Sr core.

## Adopted Levels, Gammas (continued)

$\gamma(^{93}\text{Sr})$								
$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_f$	$J_f^\pi$	Mult.‡	$\alpha^@$	Comments
213.431	(9/2) <sup>+</sup>	213.429 11	100	0	5/2 <sup>+</sup>	E2	0.0639	B(E2)(W.u.)=11.2 3 $\delta(\text{M1,E2})>2.4$ from $\alpha(\text{K})\text{exp}$ in $\beta^-$ decay.
432.604	(5/2,7/2,9/2) <sup>+</sup>	219.16 6	15.8 9	213.431	(9/2) <sup>+</sup>	M1,E2	0.039 19	
		432.61 3	100.0 5	0	5/2 <sup>+</sup>	M1,E2	0.0047 11	
986.12	(9/2 <sup>+</sup> )	986.05 6	100	0	5/2 <sup>+</sup>			
1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	709.95 5	100 7	432.604	(5/2,7/2,9/2) <sup>+</sup>			
		929.04 9	7.9 6	213.431	(9/2) <sup>+</sup>			
		1142.58 12	5.9 5	0	5/2 <sup>+</sup>			
1148.20	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	934.70 10	20.9 16	213.431	(9/2) <sup>+</sup>			
		1148.18 8	100 6	0	5/2 <sup>+</sup>			
1238.24	(7/2 <sup>+</sup> )	1238.30 8	100	0	5/2 <sup>+</sup>			
1385.31		1385.21 8	100	0	5/2 <sup>+</sup>			
1529.32		1096.71 9	100	432.604	(5/2,7/2,9/2) <sup>+</sup>			
1562.96	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	1349.67 21	14.0 17	213.431	(9/2) <sup>+</sup>			
		1562.91 11	100 7	0	5/2 <sup>+</sup>			
1779.79	(11/2 <sup>-</sup> )	793.65 6	100 5	986.12	(9/2 <sup>+</sup> )			
		1566.2 9	5.5 26	213.431	(9/2) <sup>+</sup>			$\gamma$ absent in $^{252}\text{Cf}$ SF decay even though it should have been strong enough to have been detected in that experiment.
1808.44	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	822.41 22	6.0 11	986.12	(9/2 <sup>+</sup> )			
		1808.50 10	100 5	0	5/2 <sup>+</sup>			
1869.64		1437.10 16	22.0 19	432.604	(5/2,7/2,9/2) <sup>+</sup>			
		1869.69 11	100 6	0	5/2 <sup>+</sup>			
1910.86		768.36 23	10.0 17	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )			
		1910.72 12	100 6	0	5/2 <sup>+</sup>			
2045.57		1059.4 3	3.8 7	986.12	(9/2 <sup>+</sup> )			
		1612.87 11	100 6	432.604	(5/2,7/2,9/2) <sup>+</sup>			
2054.02		905.6 3	4.9 10	1148.20	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )			
		2054.06 12	100 5	0	5/2 <sup>+</sup>			
2072.2	(11/2 <sup>+</sup> )	292.4 <sup>#</sup>	100 <sup>#</sup>	1779.79	(11/2 <sup>-</sup> )			
		833.9 <sup>#</sup>	55 <sup>#</sup>	1238.24	(7/2 <sup>+</sup> )			
2117.46		1684.76 13	100	432.604	(5/2,7/2,9/2) <sup>+</sup>			
2141.07	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	1927.64 12	100	213.431	(9/2) <sup>+</sup>			
2168.6	(13/2 <sup>+</sup> )	388.8 <sup>#</sup>	16 <sup>#</sup>	1779.79	(11/2 <sup>-</sup> )			
		1182.5 <sup>#</sup>	100 <sup>#</sup>	986.12	(9/2 <sup>+</sup> )			
2273.00		1035.1 5	35 11	1238.24	(7/2 <sup>+</sup> )			
		1130.12 16	100 11	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )			
		1287.0 5	58 18	986.12	(9/2 <sup>+</sup> )			
2292.87	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	1054.7 3	11.1 23	1238.24	(7/2 <sup>+</sup> )			
		1150.38 13	87 8	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )			

Adopted Levels, Gammas (continued)

$\gamma(^{93}\text{Sr})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_f$	$J_f^\pi$
2292.87	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	1306.92 19	21.5 26	986.12	(9/2 <sup>+</sup> )
		2292.80 13	100 6	0	5/2 <sup>+</sup>
2319.10	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	1332.97 8	100 10	986.12	(9/2 <sup>+</sup> )
		1886.6 3	13.6 21	432.604	(5/2,7/2,9/2) <sup>+</sup>
2351.51	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	1365.36 11	100 7	986.12	(9/2 <sup>+</sup> )
		1919.0 4	33 6	432.604	(5/2,7/2,9/2) <sup>+</sup>
2456.44		163.4 3	94 21	2292.87	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2023.9 4	100 21	432.604	(5/2,7/2,9/2) <sup>+</sup>
2459.78		1473.2 6	23 8	986.12	(9/2 <sup>+</sup> )
		2026.88 25	100 13	432.604	(5/2,7/2,9/2) <sup>+</sup>
2530.4		750.6#	100#	1779.79	(11/2 <sup>-</sup> )
2553.80		1315.64 10	100 7	1238.24	(7/2 <sup>+</sup> )
		1405.37 22	26 3	1148.20	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
2621.39	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	1479.1 3	16 3	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		1635.20 15	100 8	986.12	(9/2 <sup>+</sup> )
2737.44		2523.7 5	100	213.431	(9/2) <sup>+</sup>
2770.70	(≥7/2)	901.08 18	89 11	1869.64	
		990.9 3	92 18	1779.79	(11/2 <sup>-</sup> )
		2557.5 4	100 17	213.431	(9/2) <sup>+</sup>
2773.99		1388.7 6	100	1385.31	
2782.21	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	1397.7 5	9 3	1385.31	
		2349.58 17	100 9	432.604	(5/2,7/2,9/2) <sup>+</sup>
		2568.59 20	63 5	213.431	(9/2) <sup>+</sup>
2869.07		595.87 13	50 7	2273.00	
		1726.3 4	18 4	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2869.23 18	100 8	0	5/2 <sup>+</sup>
2886.46		1501.18 12	100 7	1385.31	
		1738.4 9	30 20	1148.20	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2886.3 3	95 10	0	5/2 <sup>+</sup>
2954.3	(9/2,11/2,13/2)	882.1#	100#	2072.2	(11/2 <sup>+</sup> )
		1174.5#	30#	1779.79	(11/2 <sup>-</sup> )
2979.90	3/2,5/2,7/2	1594.61 12	100 6	1385.31	
		2766.48 17	69 5	213.431	(9/2) <sup>+</sup>
3100.2	(15/2 <sup>-</sup> )	931.6#	100#	2168.6	(13/2 <sup>+</sup> )
		1320.4#	93#	1779.79	(11/2 <sup>-</sup> )
3198.14		1812.76 21	100	1385.31	
3233.01	(7/2 <sup>-</sup> ,9/2 <sup>+</sup> )	776.4 4	56 19	2456.44	
		1115.77 22	100 15	2117.46	
		1452.7 7	54 20	1779.79	(11/2 <sup>-</sup> )
3256.40	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )	2270.20 12	100	986.12	(9/2 <sup>+</sup> )

Adopted Levels, Gammas (continued) $\gamma(^{93}\text{Sr})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_f$	$J_f^\pi$
3283.2	(17/2 <sup>+</sup> )	1114.6 <sup>#</sup>	100 <sup>#</sup>	2168.6	(13/2 <sup>+</sup> )
3307.7	(15/2 <sup>+</sup> )	1235.5 <sup>#</sup>	100 <sup>#</sup>	2072.2	(11/2 <sup>+</sup> )
3404.40	(5/2 <sup>+</sup> , 7/2)	1841.6 7	25 7	1562.96	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		2256.2 9	21 16	1148.20	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		2418.22 22	100 10	986.12	(9/2 <sup>+</sup> )
3481.5		1409.3 <sup>#</sup>	100 <sup>#</sup>	2072.2	(11/2 <sup>+</sup> )
3603.18	(5/2 <sup>+</sup> , 7/2)	404.99 18	11.1 18	3198.14	
		1284.0 4	31 7	2319.10	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		2454.97 22	100 11	1148.20	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		3389.8 9	13 4	213.431	(9/2 <sup>+</sup> )
3623.70		1164.36 25	59 9	2459.78	
		1167.1 5	30 8	2456.44	
		1578.0 3	100 14	2045.57	
		1753.6 4	61 13	1869.64	
3772.0		1992.2 <sup>#</sup>	100 <sup>#</sup>	1779.79	(11/2 <sup>-</sup> )
3789.19	3/2, 5/2, 7/2	1470.13 22	100 11	2319.10	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		1743.2 5	59 17	2045.57	
		2403.5 6	34 8	1385.31	
		2646.6 6	92 28	1142.55	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		3789.3 3	80 10	0	5/2 <sup>+</sup>
3803.73	3/2 <sup>-</sup> , 5/2 <sup>-</sup> , 7/2 <sup>-</sup>	1531.1 7	4.1 12	2273.00	
		1892.70 24	11.1 13	1910.86	
		1933.9 3	16.4 26	1869.64	
		2661.08 22	19.8 19	1142.55	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		3370.97 16	72 4	432.604	(5/2, 7/2, 9/2) <sup>+</sup>
		3803.98 19	100 6	0	5/2 <sup>+</sup>
3847.62	(7/2) <sup>-</sup>	867.74 16	6.6 8	2979.90	3/2, 5/2, 7/2
		1978.28 15	72 5	1869.64	
		2461.98 19	43 4	1385.31	
		2704.97 17	92 6	1142.55	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		2861.34 15	100 6	986.12	(9/2 <sup>+</sup> )
3866.87	(5/2 <sup>+</sup> , 7/2)	610.1 4	32 6	3256.40	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		1547.78 15	51 4	2319.10	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		2724.60 25	100 16	1142.55	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		2880.48 22	68 6	986.12	(9/2 <sup>+</sup> )
3867.40	(7/2) <sup>-</sup>	981.1 3	5.1 11	2886.46	
		1515.8 3	3.6 7	2351.51	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		1574.71 22	4.8 5	2292.87	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		1749.61 19	9.8 9	2117.46	
		1821.86 13	22.3 15	2045.57	
		1956.4 3	6.8 9	1910.86	

Adopted Levels, Gammas (continued)

$\gamma(^{93}\text{Sr})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_f$	$J_f^\pi$
3867.40	(7/2) <sup>-</sup>	1997.8 6	2.3 7	1869.64	
		2058.78 17	13.6 11	1808.44	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2087.4 3	6.8 9	1779.79	(11/2 <sup>-</sup> )
		3867.60 17	100 5	0	5/2 <sup>+</sup>
3869.9		2090.1 <sup>#</sup>	100 <sup>#</sup>	1779.79	(11/2 <sup>-</sup> )
3876.82	(5/2 <sup>+</sup> ,7/2)	1736.3 13	26 13	2141.07	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		1831.10 22	51 6	2045.57	
		2068.36 24	35 4	1808.44	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2491.20 22	96 10	1385.31	
		2638.1 4	69 9	1238.24	(7/2 <sup>+</sup> )
		2734.0 10	14 6	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2890.4 3	100 9	986.12	(9/2 <sup>+</sup> )
		3876.7 3	51 6	0	5/2 <sup>+</sup>
3880.9	(21/2 <sup>+</sup> )	597.7 <sup>#</sup>	100 <sup>#</sup>	3283.2	(17/2 <sup>+</sup> )
3890.64	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>	1120.0 4	2.0 6	2770.70	(≥7/2)
		1836.4 6	8 5	2054.02	
		2327.5 3	3.1 5	1562.96	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2505.20 15	22.0 14	1385.31	
		3458.19 16	100 5	432.604	(5/2,7/2,9/2) <sup>+</sup>
		3890.5 3	5.6 6	0	5/2 <sup>+</sup>
3934.66	(5/2 <sup>+</sup> ,7/2)	1793.62 18	27.5 25	2141.07	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		3502.6 4	55 9	432.604	(5/2,7/2,9/2) <sup>+</sup>
		3721.6 4	15.5 25	213.431	(9/2) <sup>+</sup>
		3934.34 18	100 5	0	5/2 <sup>+</sup>
3954.94	3/2,5/2,7/2	351.74 11	10.9 11	3603.18	(5/2 <sup>+</sup> ,7/2)
		721.99 17	8.3 11	3233.01	(7/2 <sup>-</sup> ,9/2 <sup>+</sup> )
		1068.51 11	100 9	2886.46	
		1494.85 15	38 3	2459.78	
		1662.16 15	60 5	2292.87	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		1900.94 12	76 5	2054.02	
		2812.6 5	18 4	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		3954.2 12	6 3	0	5/2 <sup>+</sup>
4017.60	3/2,5/2,7/2	2147.6 3	70 9	1869.64	
		2875.3 6	25 6	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		3585.4 5	26 5	432.604	(5/2,7/2,9/2) <sup>+</sup>
		4017.55 21	100 7	0	5/2 <sup>+</sup>
4037.86	3/2,5/2,7/2	1483.96 24	9.3 13	2553.80	
		1983.2 9	7 3	2054.02	
		1991.8 3	17.8 24	2045.57	
		2168.24 14	47 3	1869.64	
		2229.44 12	100 6	1808.44	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )

Adopted Levels, Gammas (continued)

$\gamma(^{93}\text{Sr})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_f$	$J_f^\pi$
4037.86	3/2,5/2,7/2	2799.9 4	16 3	1238.24	(7/2 <sup>+</sup> )
4037.9		2258.1 <sup>#</sup>	100 <sup>#</sup>	1779.79	(11/2 <sup>-</sup> )
4041.9		1690.9 7	43 15	2351.51	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2262.0 3	100 14	1779.79	(11/2 <sup>-</sup> )
4097.43	(7/2 <sup>-</sup> )	473.8 6	5.1 22	3623.70	
		1359.92 16	37 3	2737.44	
		1745.7 5	22 6	2351.51	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2954.93 24	83 10	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		3664.75 19	100 7	432.604	(5/2,7/2,9/2) <sup>+</sup>
		3883.95 22	82 6	213.431	(9/2) <sup>+</sup>
4156.4		2376.6 <sup>#</sup>	100 <sup>#</sup>	1779.79	(11/2 <sup>-</sup> )
4336.12	3/2,5/2,7/2	1138.0 3	100 16	3198.14	
		2773.2 4	60 10	1562.96	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
4461.10	3/2,5/2,7/2	1204.9 7	16 7	3256.40	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2550.06 22	86 8	1910.86	
		2652.62 22	100 10	1808.44	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		4461.4 4	25 3	0	5/2 <sup>+</sup>
4470.8		989.3 <sup>#</sup>	100 <sup>#</sup>	3481.5	
4509.26	3/2 <sup>(-)</sup> ,5/2,7/2	661.64 11	100 19	3847.62	(7/2) <sup>-</sup>
		3366.6 3	81 10	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
4577.6	3/2,5/2,7/2	1803.6 3	91 13	2773.99	
		2258.4 4	100 20	2319.10	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
4596.8	(19/2 <sup>+</sup> )	1289.1 <sup>#</sup>	100 <sup>#</sup>	3307.7	(15/2 <sup>+</sup> )
4620.20	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>	602.6 4	37 7	4017.60	3/2,5/2,7/2
		831.2 3	13 3	3789.19	3/2,5/2,7/2
		1838.0 4	100 37	2782.21	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		1882.9 4	22 4	2737.44	
		3477.39 24	57 5	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
4714.64	3/2,5/2,7/2	205.2 6	35 18	4509.26	3/2 <sup>(-)</sup> ,5/2,7/2
		910.91 14	48 5	3803.73	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>
		3572.05 25	100 9	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		4281.9 3	57 5	432.604	(5/2,7/2,9/2) <sup>+</sup>
4790.38	3/2,5/2,7/2	1533.8 3	100 15	3256.40	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2170.4 16	37 37	2621.39	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2334.0 5	46 10	2456.44	
		3642.4 6	69 15	1148.20	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
4797.0	(25/2 <sup>+</sup> )	916.1 <sup>#</sup>	100 <sup>#</sup>	3880.9	(21/2 <sup>+</sup> )
4913.09	(7/2) <sup>-</sup>	2043.82 17	94 7	2869.07	
		2359.45 16	100 7	2553.80	
		2620.2 6	26 6	2292.87	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )



Adopted Levels, Gammas (continued)

$\gamma(^{93}\text{Sr})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_f$	$J_f^\pi$
4913.09	(7/2) <sup>-</sup>	3104.1 8	22 7	1808.44	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		3133.1 8	27 8	1779.79	(11/2 <sup>-</sup> )
		3770.4 3	55 6	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
4991.28	(7/2) <sup>-</sup>	1100.63 12	100 9	3890.64	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>
		1202.4 7	26 12	3789.19	3/2,5/2,7/2
		3211.6 6	62 13	1779.79	(11/2 <sup>-</sup> )
		3848.7 7	59 13	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		4004.5 8	43 11	986.12	(9/2 <sup>+</sup> )
5012.24	3/2,5/2,7/2	1077.60 17	28 3	3934.66	(5/2 <sup>+</sup> ,7/2)
		1208.55 19	96 12	3803.73	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>
		1222.7 4	43 10	3789.19	3/2,5/2,7/2
		2958.1 6	100 26	2054.02	
5333.9		863.1 <sup>#</sup>	100 <sup>#</sup>	4470.8	
5384.67	3/2 <sup>-</sup> ,5/2 <sup>-</sup> ,7/2 <sup>-</sup>	1507.77 14	68 5	3876.82	(5/2 <sup>+</sup> ,7/2)
		2602.38 22	100 9	2782.21	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		2614.1 3	37 5	2770.70	(≥7/2)
		3821.9 4	28 4	1562.96	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		4242.1 5	22 3	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
5395.5	(5/2 <sup>-</sup> ,7/2 <sup>-</sup> )	2624.8 5	96 20	2770.70	(≥7/2)
		4009.9 12	55 20	1385.31	
		4156.6 6	100 20	1238.24	(7/2 <sup>+</sup> )
		5396.7 9	31 7	0	5/2 <sup>+</sup>
5413.6	3/2 <sup>(-)</sup> to 7/2 <sup>(-)</sup>	3296.1 10	21 9	2117.46	
		3544.0 8	47 16	1869.64	
		4271.23 <sup>&amp;</sup> 19	100 7	1142.55	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
5601.3?		3547.2 <sup>&amp;</sup> 9	100	2054.02	
5631.2?		2398.3 <sup>&amp;</sup> 3	63 9	3233.01	(7/2 <sup>-</sup> ,9/2 <sup>+</sup> )
		3172.1 <sup>&amp;</sup> 4	100 14	2459.78	
		3338.0 <sup>&amp;</sup> 4	70 12	2292.87	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
		4645.0 9	23 7	986.12	(9/2 <sup>+</sup> )
5775.5?		1439.6 <sup>&amp;</sup> 5	88 29	4336.12	3/2,5/2,7/2
		1908.1 <sup>&amp;</sup> 6	95 31	3867.40	(7/2) <sup>-</sup>
		4627.0 <sup>&amp;</sup> 5	100 14	1148.20	(5/2 <sup>+</sup> ,7/2,9/2 <sup>+</sup> )
6000.51?		1491.25 <sup>&amp;</sup> 24	29 4	4509.26	3/2 <sup>(-)</sup> ,5/2,7/2
		2377.0 <sup>&amp;</sup> 3	32 5	3623.70	
		3113.85 <sup>&amp;</sup> 24	100 9	2886.46	
		3226.4 <sup>&amp;</sup> 3	71 7	2773.99	
		4615.4 <sup>&amp;</sup> 9	10 3	1385.31	

**Adopted Levels, Gammas (continued)**

$\gamma(^{93}\text{Sr})$  (continued)

$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_f$	$J_f^\pi$	$E_i(\text{level})$	$J_i^\pi$	$E_\gamma^\dagger$	$I_\gamma^\dagger$	$E_f$	$J_f^\pi$
6096.7?		2206.2 & 3	100 14	3890.64	3/2 <sup>-</sup> , 5/2 <sup>-</sup> , 7/2 <sup>-</sup>	6272.70?		859.05 & 18	18.3 23	5413.6	3/2 <sup>(-)</sup> to 7/2 <sup>(-)</sup>
		4947.5 & 6	38 7	1148.20	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )			3403.56 & 18	100 6	2869.07	
		4953.9 & 11	20 5	1142.55	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )	6277.40?		2386.72 & 23	100 11	3890.64	3/2 <sup>-</sup> , 5/2 <sup>-</sup> , 7/2 <sup>-</sup>
6260.73?		3027.6 & 11	28 12	3233.01	(7/2 <sup>-</sup> , 9/2 <sup>+</sup> )			2674.2 & 4	47 9	3603.18	(5/2 <sup>+</sup> , 7/2)
		3486.9 & 7	39 10	2773.99		6707.42?		2903.6 & 3	100 12	3803.73	3/2 <sup>-</sup> , 5/2 <sup>-</sup> , 7/2 <sup>-</sup>
		3706.6 & 7	42 10	2553.80				4250.9 & 7	22 5	2456.44	
		3941.7 & 4	64 13	2319.10	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )			4387.9 & 4	52 6	2319.10	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		4481.2 & 6	34 6	1779.79	(11/2 <sup>-</sup> )			4899.4 & 5	22 3	1808.44	(5/2 <sup>+</sup> , 7/2, 9/2 <sup>+</sup> )
		4875.1 & 3	100 8	1385.31							

† From  $\beta^-$  decay, except as noted.

‡ From  $\alpha(\text{K})\text{exp}$  in  $^{93}\text{Rb}$   $\beta^-$  decay.

# From  $^{252}\text{Cf}$  SF decay.

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

& Placement of transition in the level scheme is uncertain.

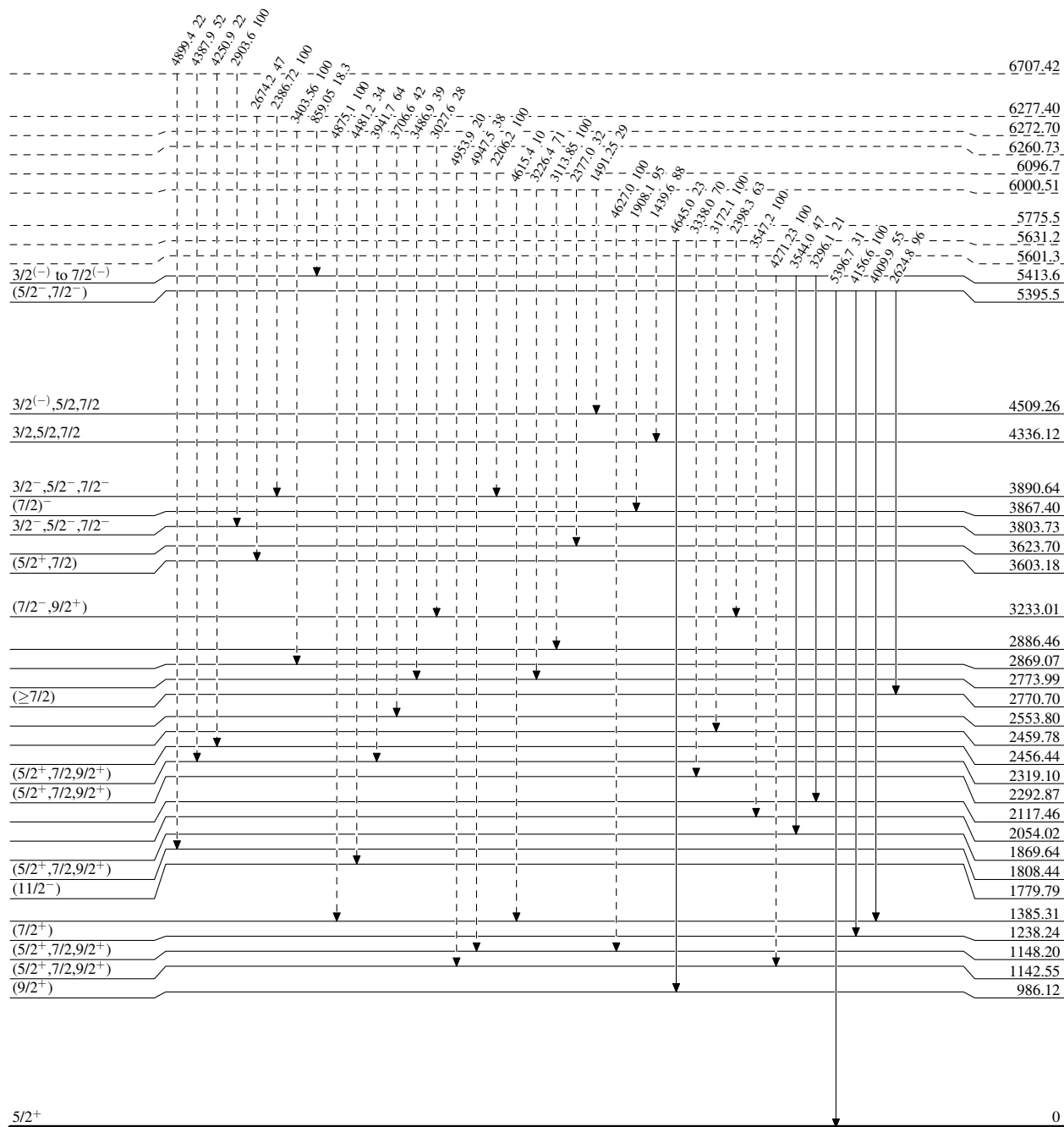
**Adopted Levels, Gammas**

Legend

**Level Scheme**

Intensities: Relative photon branching from each level

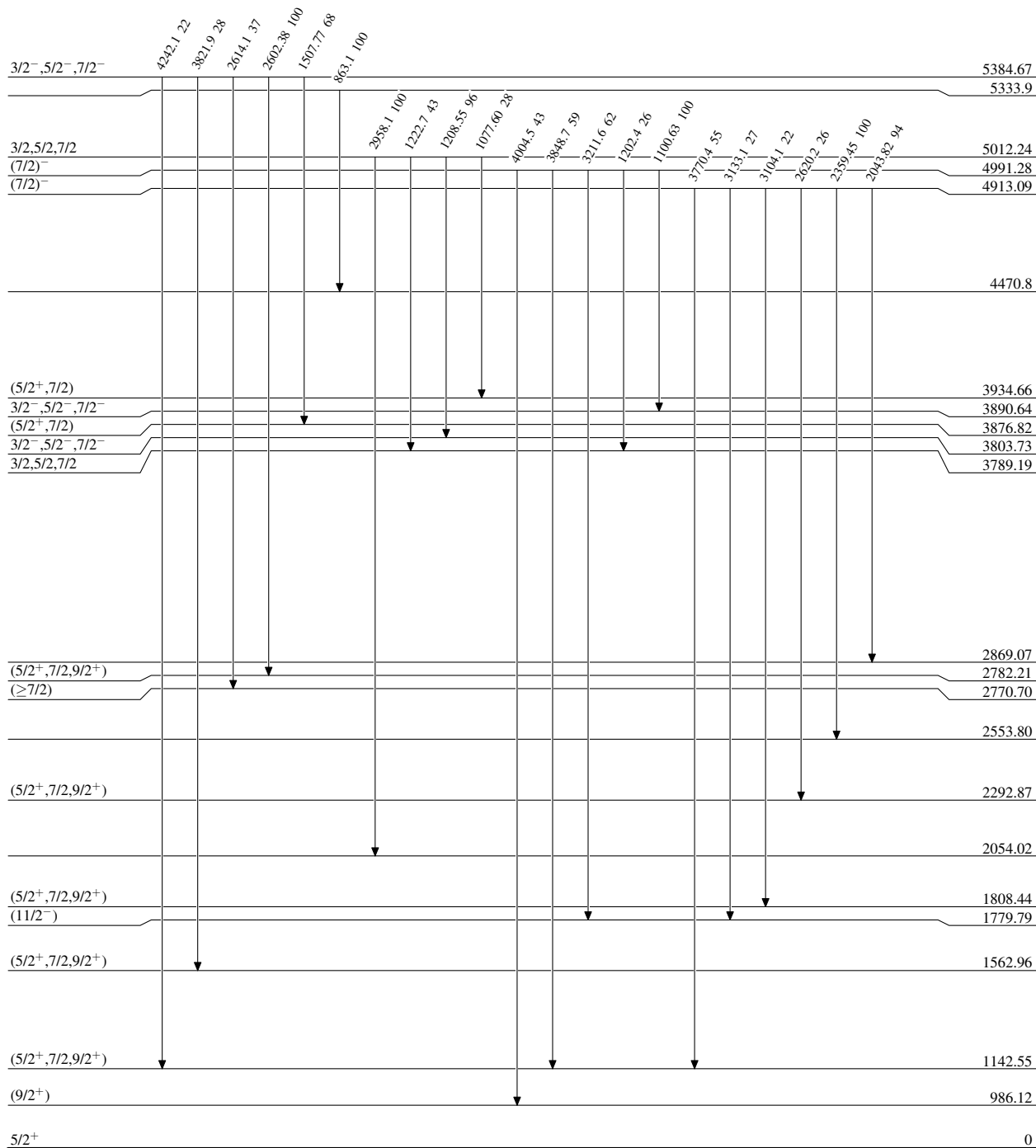
-----▶  $\gamma$  Decay (Uncertain)



**Adopted Levels, Gammas**

**Level Scheme (continued)**

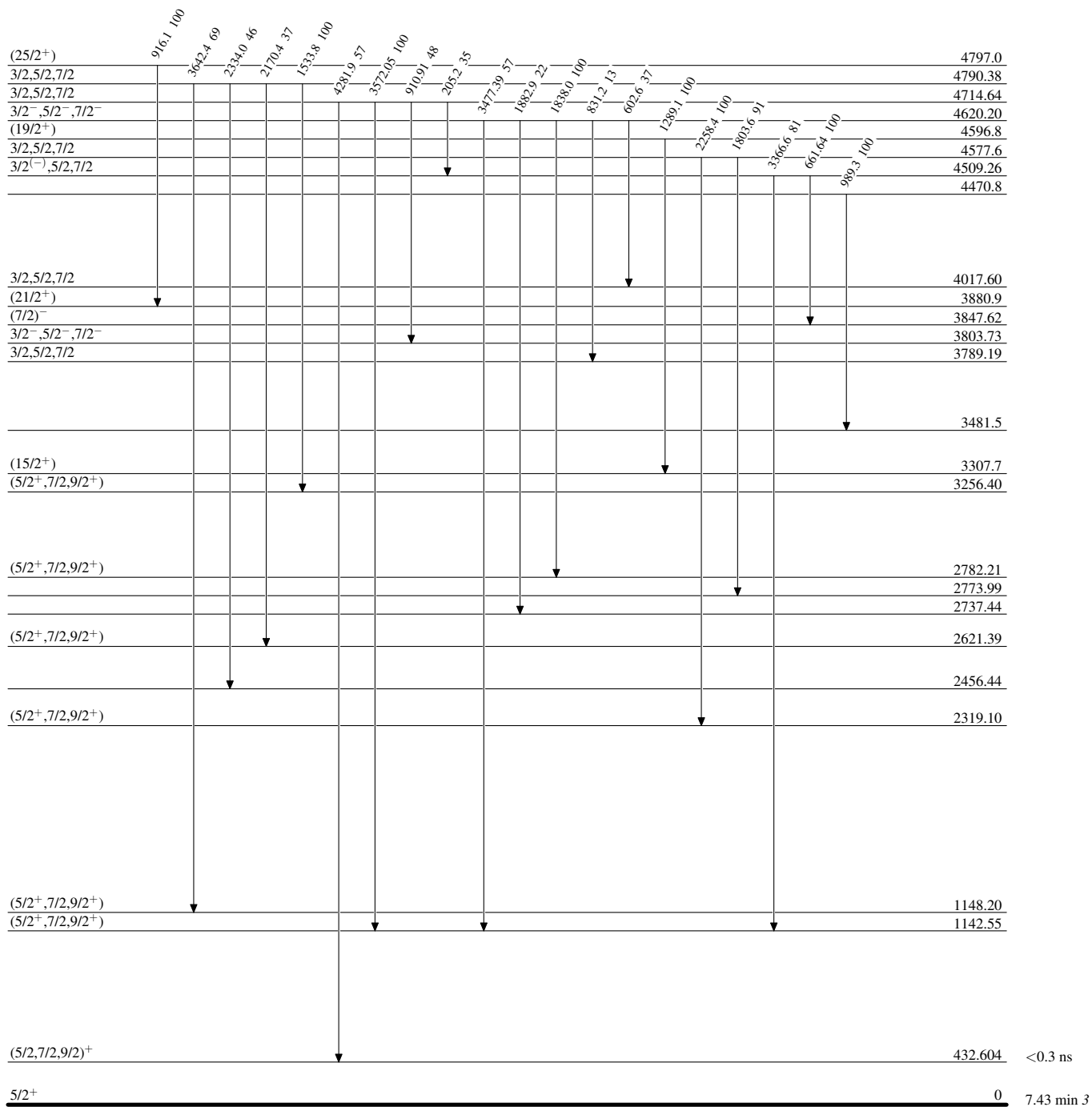
Intensities: Relative photon branching from each level



**Adopted Levels, Gammas**

**Level Scheme (continued)**

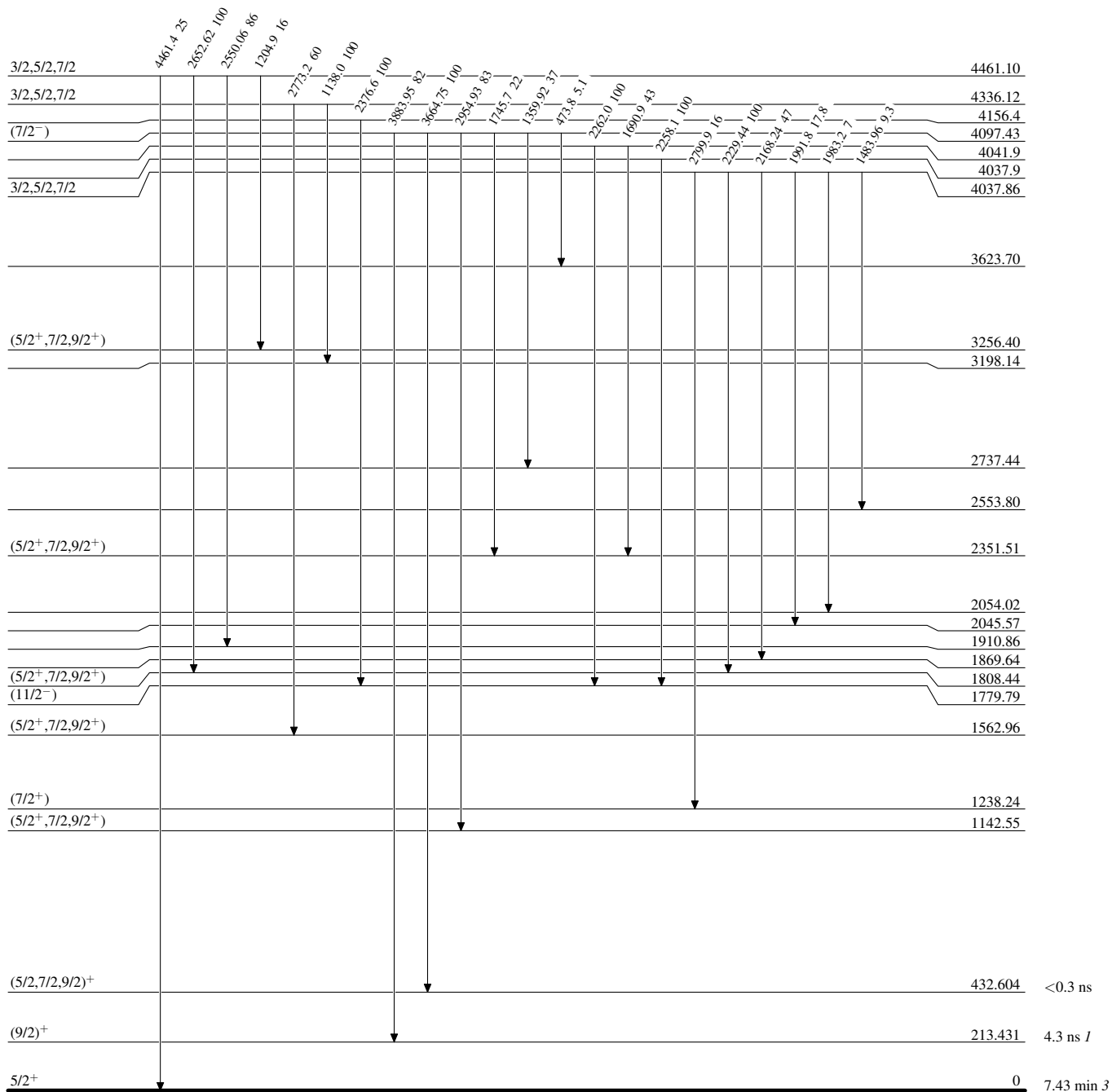
Intensities: Relative photon branching from each level



**Adopted Levels, Gammas**

Level Scheme (continued)

Intensities: Relative photon branching from each level

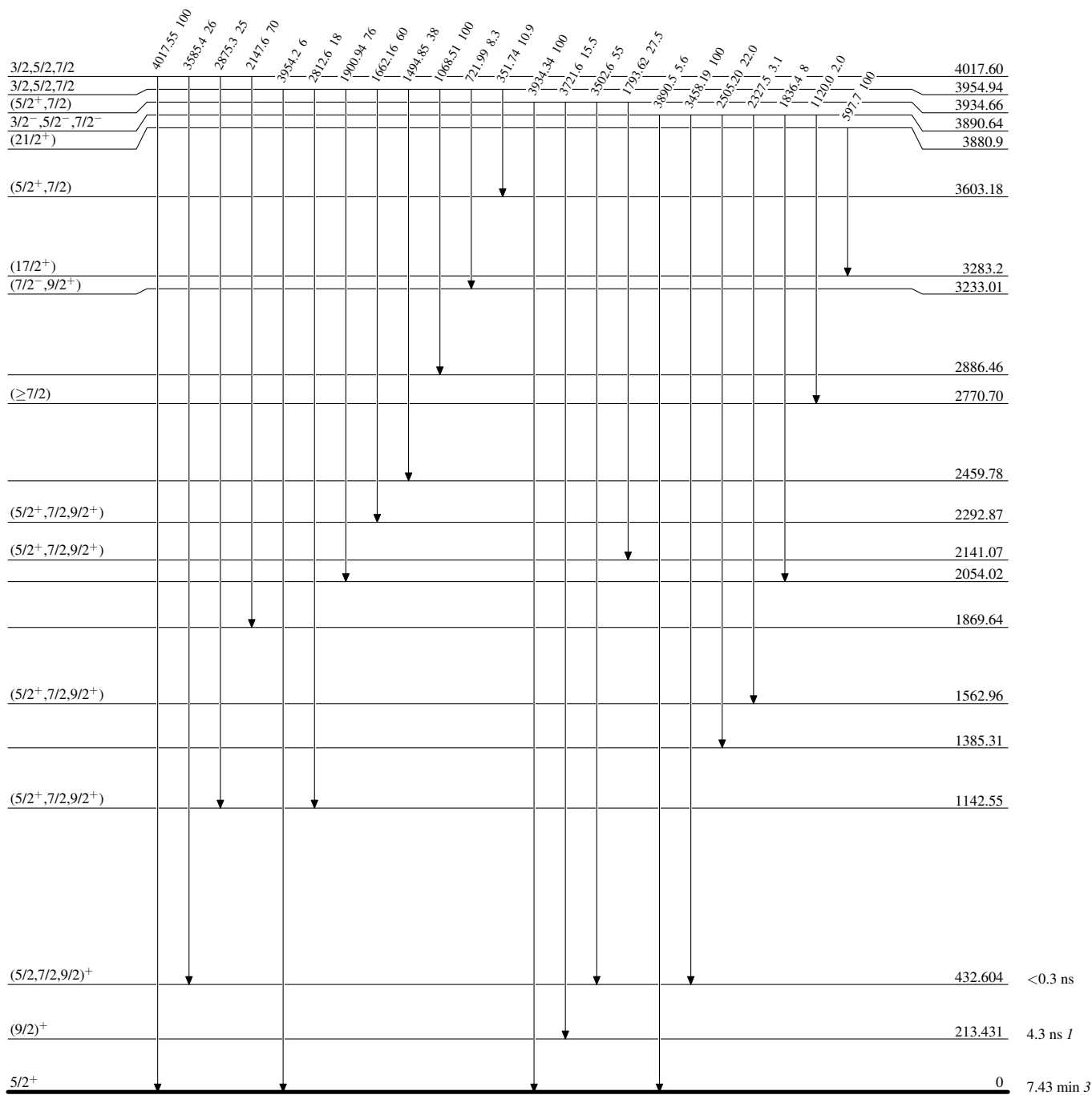


$^{93}_{38}\text{Sr}_{55}$

**Adopted Levels, Gammas**

**Level Scheme (continued)**

Intensities: Relative photon branching from each level

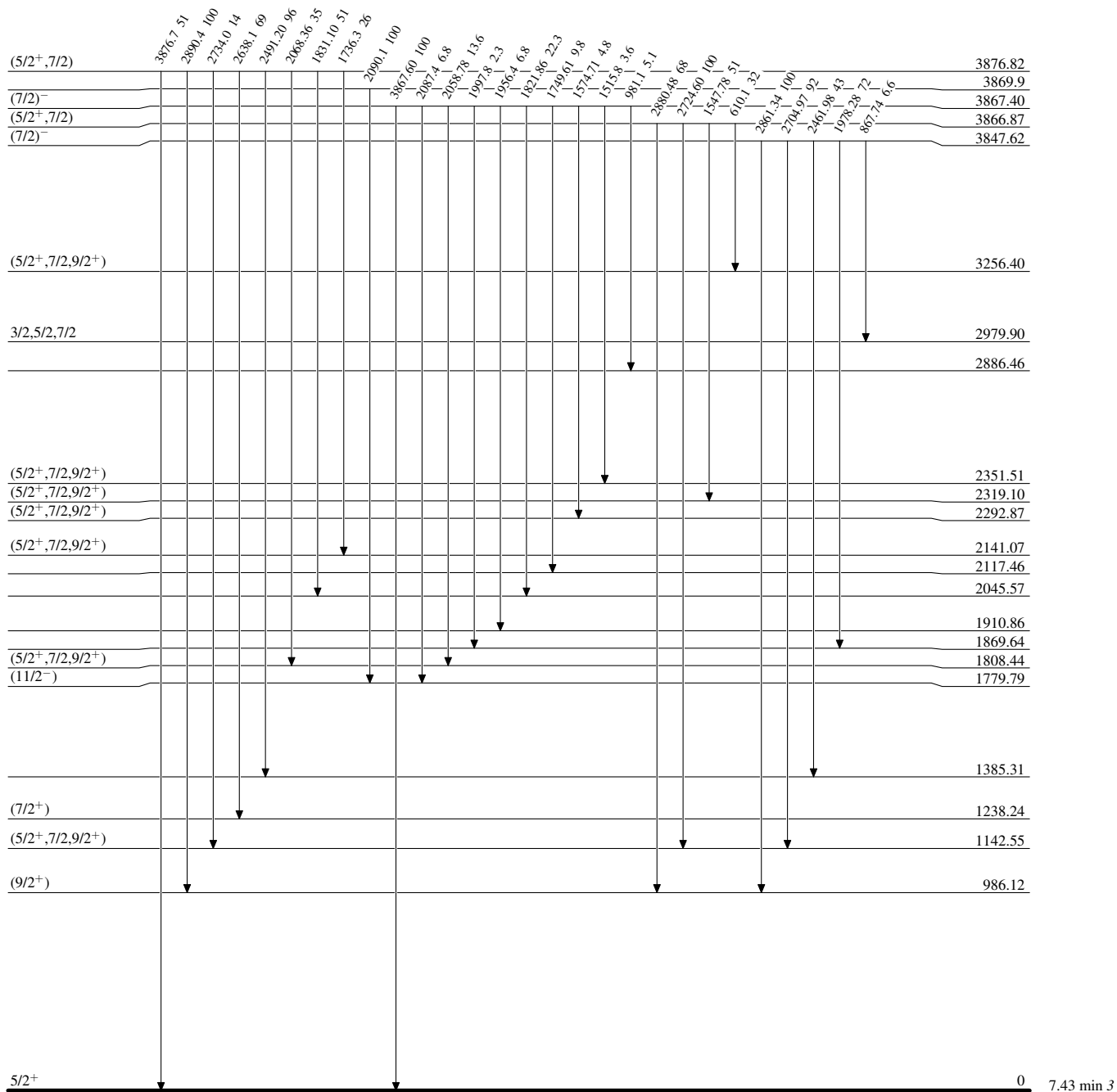


$^{93}_{38}\text{Sr}_{55}$

**Adopted Levels, Gammas**

Level Scheme (continued)

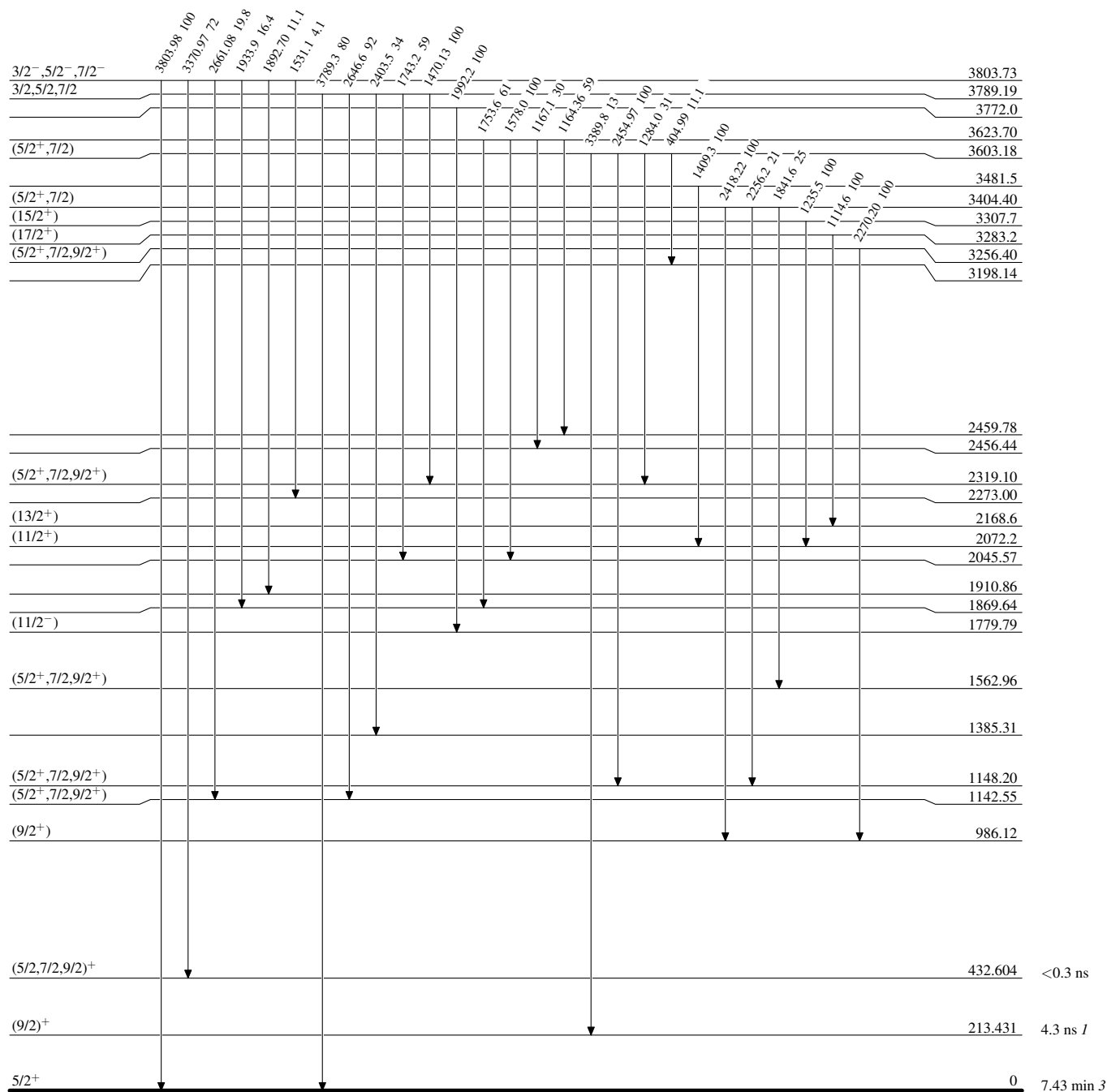
Intensities: Relative photon branching from each level





Adopted Levels, GammasLevel Scheme (continued)

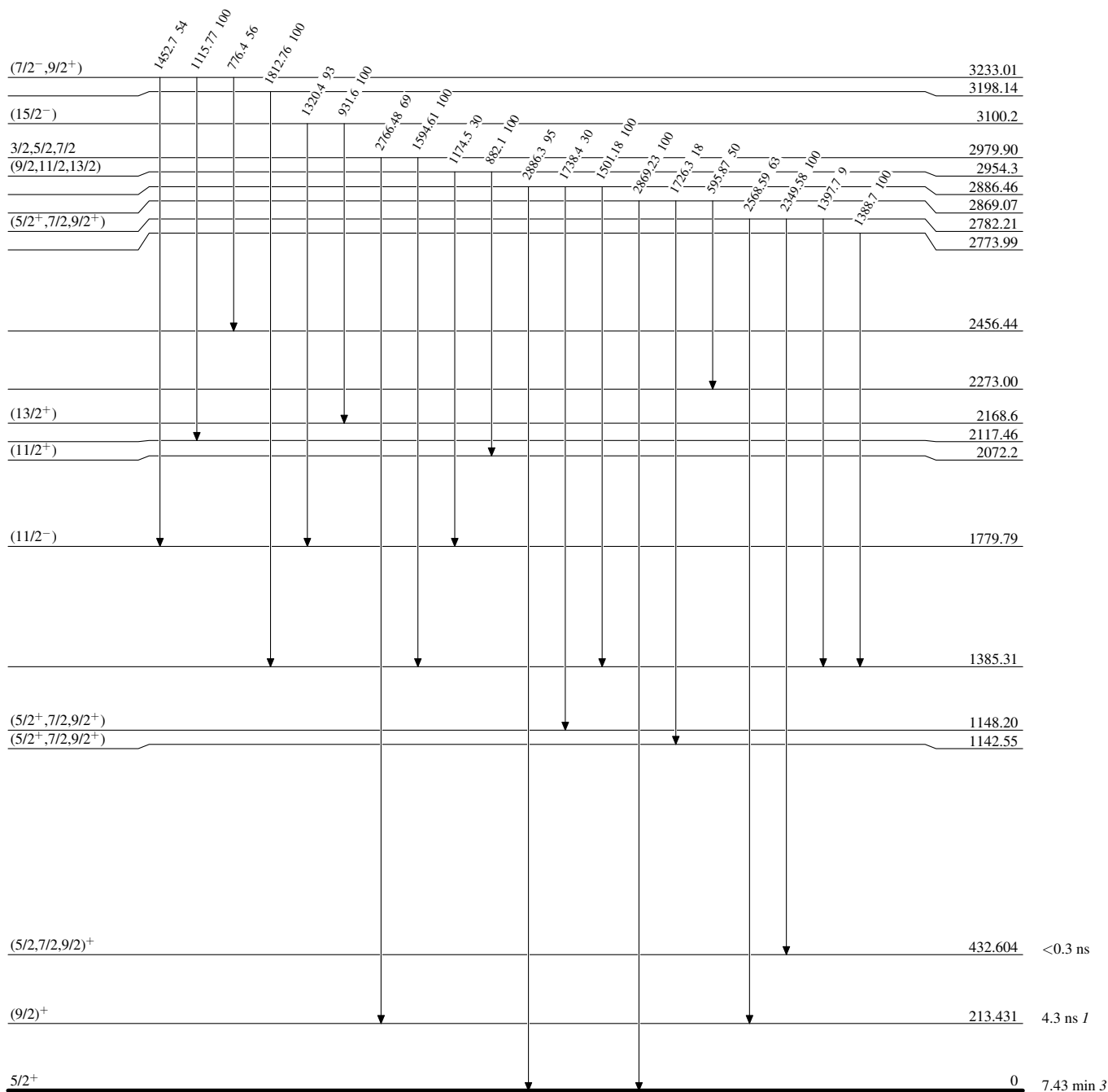
Intensities: Relative photon branching from each level

 $^{93}_{38}\text{Sr}_{55}$

**Adopted Levels, Gammas**

**Level Scheme (continued)**

Intensities: Relative photon branching from each level

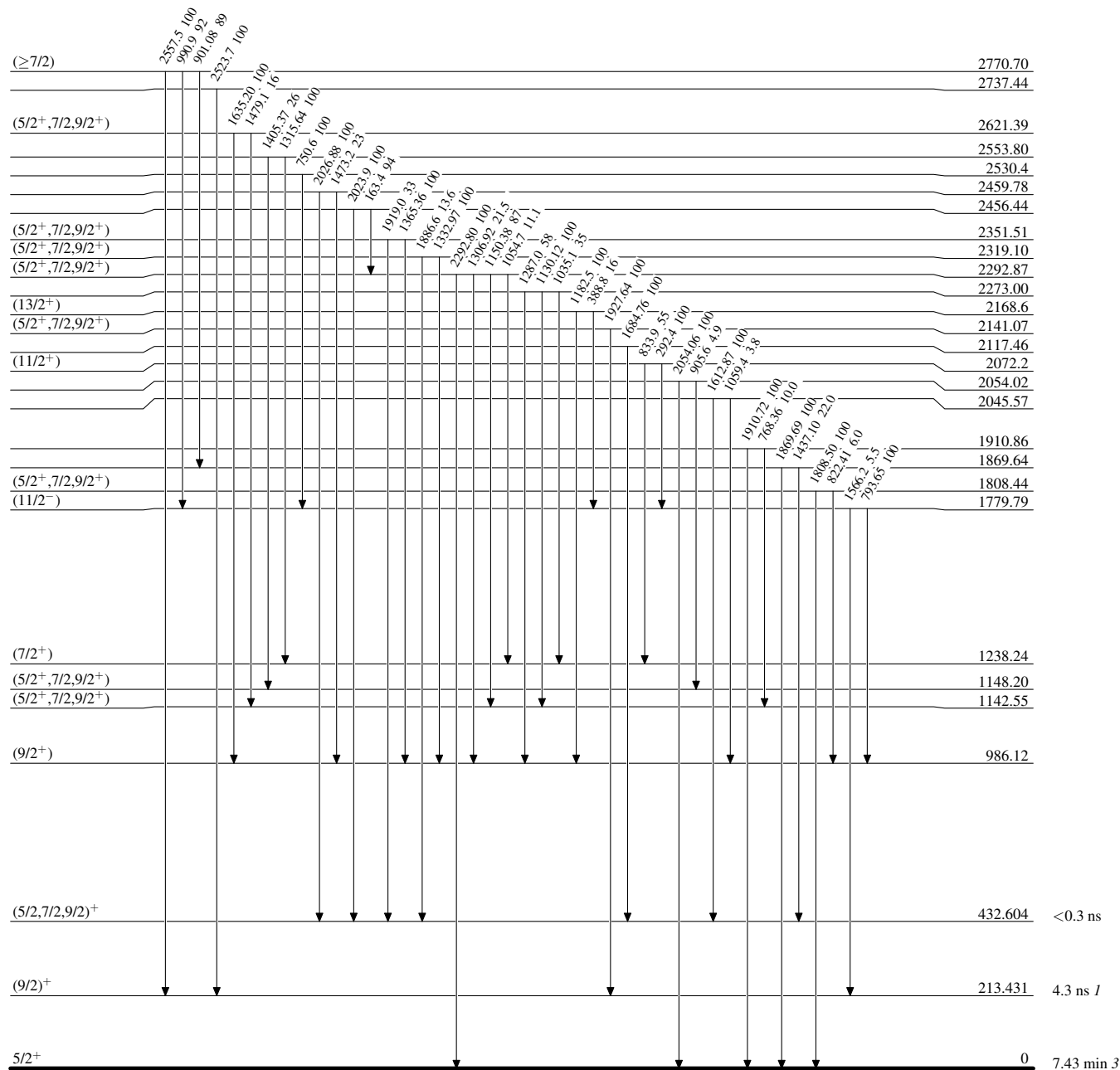


<sup>93</sup><sub>38</sub>Sr<sub>55</sub>

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

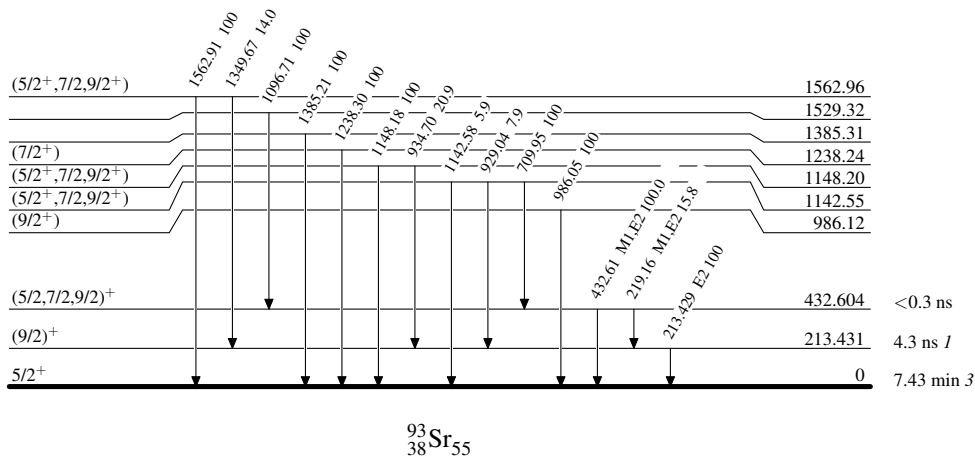


$^{93}_{38}\text{Sr}_{55}$

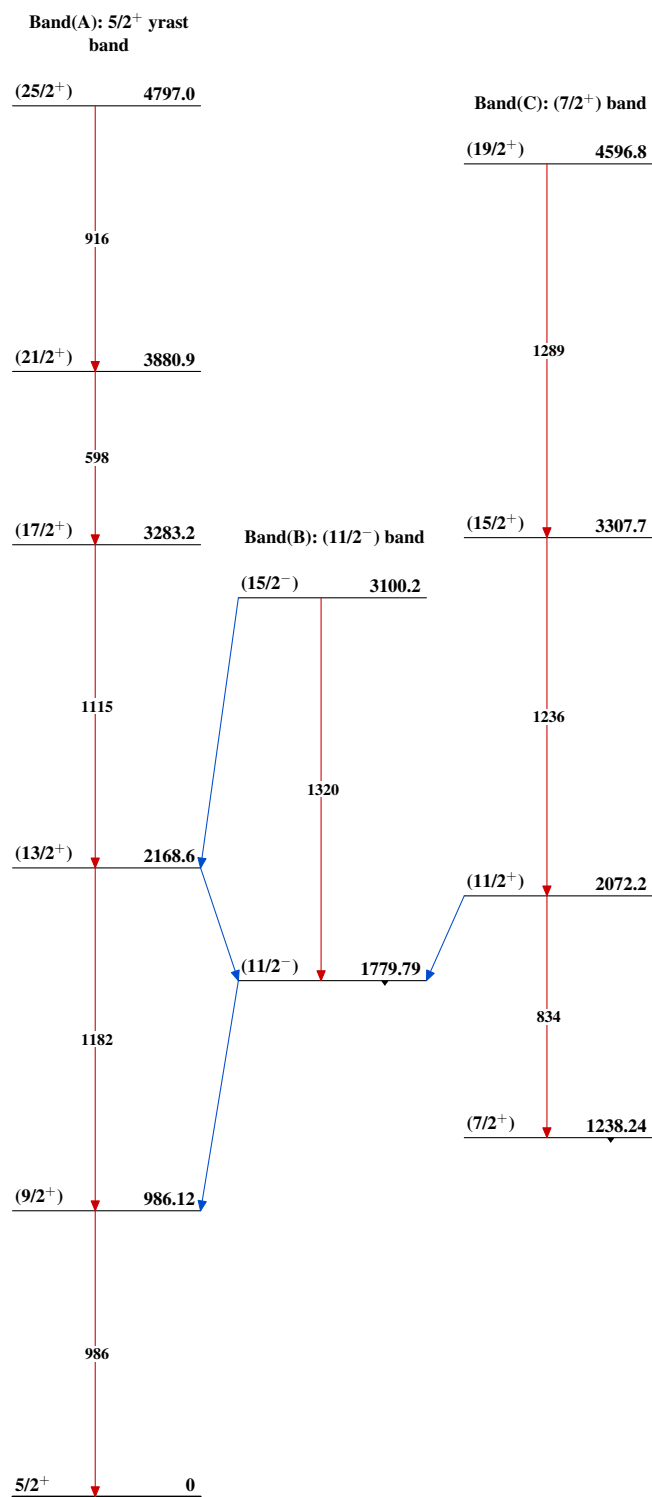
**Adopted Levels, Gammas**

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{93}_{38}\text{Sr}_{55}$

**Adopted Levels, Gammas** $^{93}_{38}\text{Sr}_{55}$