Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111,525 (2010)	19-Nov-2009

Q(β^-)=7545 *8*; S(n)=3724 *10*; S(p)=14517 *5*; Q(α)=−6871 *5* 2012Wa38
Note: Current evaluation has used the following Q record $ 7470 16 *3920* 30 *14850* 30 −720E1 10 2003Au03.
Q(β^-n)=1487 *29* (2003Au03); see also preliminary Penning-trap mass measurements, 2006Ha23 (^{97}Sr, ^{96}Sr), 2007Ra23 (^{97}Rb, ^{96}Rb), 2007Ha32 (^{97}Y, ^{96}Y), and 2006De36 (^{93}Kr) from which the following values are calculated: Q(β^-)=7538 *13*; S(n)=3732 *14*; S(p)=14521 *10*, Q(α)=−6875.9 *10*, Q(β^-n)=1683 *12*.

^{97}Sr Levels

Cross Reference (XREF) Flags

A	^{97}Rb β^- decay	D	^{252}Cf SF decay
B	^{98}Rb β^-n decay (114 ms)	E	^{238}U(α,Fγ) E=30 MeV
C	^{248}Cm SF decay	F	^{239}Pu(n,Fγ) E=th

```
Theory, calculations and systematics:
   mean square charge radii: 1996Li25, 1993HiZX, 1992Ne09, 1990Bu12
   calculated binding energy per particle, isotope shifts: 1993Hi11
   deformation, shape coexistence: 1993LhZY, 1990Bu01, 1988Lh01,
                                   1985Me20
   interacting bosons calculations: 1988BrZM
```

E(level)[†]	J$^\pi$	T$_{1/2}$[‡]	XREF	Comments
0.0	1/2$^+$	429 ms *5*	ABCDEF	%β^-=100; %β^-n≤0.05 μ=−0.4983 *9* (1990Li28) J$^\pi$: J=1/2 collinear fast beam LASER spectroscopy (1987Bu11, 1990Li28,1990Bu12); π=+ from shell model: 3s1/2 is the only available low-energy J=1/2 level for N=59 nucleus. T$_{1/2}$: weighted average of 420 *20* ms (1987PfZX), 429 *5* ms (1986Wa17), 420 *40* ms (1982Ga24), 390 *30* ms (1981En05), 441 *15* ms (1978Wo09). Others: 403 *5* ms (1983Re10, earlier report by 1986Wa17), 430 *30* ms (1979En02, earlier report by 1981En05), 850 *50* ms (1971Tr02), ≈400 ms (1970Ei02). %β^-n: recommended value (1993Ru01); 0.03 *2* (1987PfZX), <0.05 (1986Wa17), <0.02 (1983Re10), 0.005 *2* (1982Ga24), 0.27 *9* (1981En05). μ: measured by collinear fast beam LASER spectroscopy − accelerated beam. Others: −0.498 *2* (2005St24,1990Bu12), −0.500 *1* (1989Ra17).
167.13 *8*	3/2$^+$	0.22 ns *4*	ABCDEF	J$^\pi$: ΔJ=1, M1 γ to 1/2$^+$ g.s. T$_{1/2}$: other: 15 ns (^{97}Rb β^- decay).
308.13 *11*	7/2$^+$	169 ns *9*	ABCDEF	J$^\pi$: ΔJ=2, E2 γ to 3/2$^+$; configuration=g7/2. T$_{1/2}$: weighted average of 170 ns *10* (^{97}Rb β^- decay) and 165 ns *25* (^{252}Cf SF decay).
312.03 *22*		<4[#] ns	D	T$_{1/2}$: from ^{252}Cf SF decay.
522.49 *9*	3/2$^+$,5/2$^+$		A C	J$^\pi$: M1 γ from 5/2$^+$, 687 and M1 γ to 3/2$^+$, 167.
585.06[a] *9*	(3/2)$^+$	≤8 ps	A C E	J$^\pi$: M1,E2 γ to 1/2$^+$ g.s. and M1+E2 γ from 5/2$^+$, 687; band head of positive parity band with E2, ΔJ=2 *237.5*γ and higher Q, ΔJ=2 γ's.
600.48 *9*	3/2$^+$,5/2$^+$	≤11 ps	A C	J$^\pi$: M1,E2 γ to 3/2$^+$, 167; E2,M1 γ to 1/2$^+$, g.s.
644.73[b] *9*	(3/2)$^-$	7.2 ns *10*	A C E	J$^\pi$: (3/2)$^-$,(5/2)$^-$,(7/2)$^-$ from M1+E2 γ from (5/2)$^-$, 714; (3/2)$^-$ from γ to 1/2$^+$, g.s.; band head of negative parity band with M1+E2 ΔJ=1 stopover 57.7γ and cascade of Q, ΔJ=2 crossover γ's.
687.09[&] *9*	5/2$^+$	0.364 ns *20*	A C E	β_2=0.34 *2*

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{97}Sr Levels (continued)

E(level)†	Jπ	$T_{1/2}$‡	XREF	Comments
				Jπ: ΔJ=2, E2 γ to 1/2+, g.s.; band head of positive parity band with M1+E2 ΔJ=1 stopover 102.0γ and cascade of Q, ΔJ=2 crossover γ′s.
				β_2: from ^{248}Cm SF.
713.82[c] 9	(5/2)−	1.27 ns 19	A C E	Jπ: (1/2)−,(3/2)−,(5/2)− from E1 γ to (3/2)+, 585; (5/2)− from no γ to 1/2+, g.s.; band head of negative parity band with M1+E2 ΔJ=1 stopover 69.1γ and signature partner of band based on (3/2)−, α=−1/2.
				$T_{1/2}$: other: 1.7 ns (^{97}Rb β− decay).
755.37 15			A	
768.7 3			A	
771.48[b] 12	7/2−		A C E	β_2=0.32 2
				Jπ: 3/2−,5/2−,7/2− from E1 γ to 5/2+, 687; 7/2− from ΔJ=2, Q in-band γ to (3/2)−, 645.
				β_2: from ^{248}Cm SF.
822.42[a] 15	(7/2)+	0.21 ns 3	A C E	Jπ: ΔJ=2, E2 γ to (3/2)+, 585; parity from member of band based on 3/2+, α=−1/2.
830.83[d] 23	(9/2+)	395 ns 132	CDEF	β_2=0.441 13
				Jπ: based on analogy with 9/2[404], 1038.8 isomeric level in ^{99}Zr (2003Ur01) as adopted in ^{238}U(α,Fγ), ^{248}Cm SF, and ^{252}Cf SF datasets; previously (11/2−) was suggested by 1980MoZJ (^{252}Cf SF) on the basis of systematics with N=57 and N=59 nuclei.
				$T_{1/2}$: mean value of 263 ns 24 (^{252}Cf SF) and 526 ns 13 (^{239}Pu(n,Fγ) E=th, 2005Zl01) with an uncertainty which covers both values. These values are strongly discrepant and remeasurement is needed. The value from ^{252}Cf SF is the weighted average of 265 ns 27 (2003Hw03) and 255 ns 56 (2006Hw01). Others (same dataset): 515 ns 15 (1980MoZJ – 2003 correction suggests 255 ns 10); 382 ns 11 (1974Su04 – it does not seem certain the measured 522.4γ pertains to ^{97}Sr). The 515 ns 15 (1980MoZJ) corrected to 255 ns 10 (2003) might suggest that the 2003Hw03, 2006Hw01 results (same group) from ^{252}Cf SF (w. aver. 263 ns 24) are correct; however some authors of 1980MoZJ (and 2003 correction) and 2005Zl01 are common, which might suggest that the result of 2005Zl01 (526 ns 13) from ^{239}Pu(n,Fγ) is correct (see also corresponding comments in ^{252}Cf SF and ^{239}Pu(n,Fγ) E=th datasets).
				β_2: weighted average of 0.441 15 (^{252}Cf SF) and 0.441 26 (^{248}Cm SF).
916.44 15			A	
946.56[c] 22	(9/2−)		C E	Jπ: γ from 11/2−, 995 and γ to (5/2)−, 771; member of band based on 5/2−, α=+1/2.
985.49 13	(3/2+,5/2+)	≤6 ps	A	Jπ: (M1) γ to (3/2)+, 585 and γ to (5/2)−, 714.
992.4[&] 4	9/2+		C E	Jπ: ΔJ=2, Q γ to 5/2+, 687; parity from member of band based on 5/2+, α=+1/2.
995.2[b] 3	11/2−		C E	Jπ: ΔJ=2, Q γ to 7/2−, 771; parity from member of band based on 3/2−, α=−1/2.
1036.73[d] 24	(11/2+)[@]		CDEF	
1095.50 14	(3/2+,5/2)		A	Jπ: (3/2+,5/2,7/2+) from γ′s to (3/2)+, 586 and (7/2)+, 822; (7/2) excluded from log ft=6.2 from 3/2+ g.s. of ^{97}Rb.
1197.9[a] 4	(11/2)+		C E	Jπ: ΔJ=2, Q γ to (7/2)+, 822; parity from member of band based on 3/2+, α=−1/2.
1276.34[d] 24	(13/2+)[@]		CDEF	
1278.2 11			C	
1320.70 14		≤7 ps	A	
1342.6[c] 11	(13/2−)		E	Jπ: γ to (9/2−), 946; member of band based on 5/2−, α=+1/2.
1374.67 16		≤6 ps	A	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{97}Sr Levels (continued)

E(level)†	Jπ	XREF	Comments
1383.6[b] 4	15/2⁻	C E	Jπ: ΔJ=2, E2 γ to 11/2⁻, 995; parity from member of band based on 3/2⁻, α=−1/2.
1435.3[&] 5	13/2⁺	C E	Jπ: ΔJ=2, Q γ to 9/2⁺, 992; parity from member of band based on 5/2⁺, α=+1/2.
1507.3 3	(1/2⁺,3/2,5/2⁺)	A	Jπ: γ to 5/2⁺, 687 and γ to 1/2⁺, g.s.
1548.83[d] 25	(15/2⁺)[@]	CDEF	
1707.6[a] 5	(15/2)⁺	C E	Jπ: ΔJ=2, Q γ to (11/2)⁺, 1198; parity from member of band based on 3/2⁺, α=−1/2.
1852.84[d] 25	(17/2⁺)[@]	CDEF	
1903.6[c] 15	(17/2⁻)	E	Jπ: γ to (13/2⁻), 1343; member of band based on 5/2⁻, α=+1/2.
1906.4[b] 5	19/2⁻	C E	Jπ: ΔJ=2, Q γ to 15/2⁻, 1383; parity from member of band based on 3/2⁻, α=−1/2.
2010.4[&] 6	17/2⁺	C E	Jπ: ΔJ=2, Q γ to 13/2⁺, 1435; parity from member of band based on 5/2⁺, α=+1/2.
2188.4[d] 4	(19/2⁺)[@]	C E	
2345.6[a] 6	(19/2⁺)	C E	Jπ: γ to (15/2)⁺, 1708; parity from member of band based on 3/2⁺, α=−1/2.
2553.6[d] 7	(21/2⁺)[@]	E	
2559.9[b] 6	23/2⁻	C E	Jπ: ΔJ=2, Q γ to 19/2⁻, 1906; parity from member of band based on 3/2⁻, α=−1/2.
2640.6[c] 18	(21/2⁻)	E	Jπ: γ to (17/2⁻), 1904; member of band based on 5/2⁻, α=+1/2.
2712.4[&] 6	(21/2⁺)	C E	Jπ: γ to 17/2⁺, 2010; member of band based on 5/2⁺, α=+1/2.
2854.9 4		A	
2948.5[d] 9	(23/2⁺)[@]	E	
3102.6[a] 12	(23/2⁺)	E	Jπ: γ to (19/2⁺), 2346; member of band based on 3/2⁺, α=−1/2.
3333.9[b] 7	(27/2⁻)	C E	Jπ: γ to 23/2⁻, 2560; member of band based on 3/2⁻, α=−1/2.
3533.4[&] 12	(25/2⁺)	E	Jπ: γ to (21/2⁺), 2712; member of band based on 5/2⁺, α=+1/2.
3975.6[a] 16	(27/2⁺)	E	Jπ: γ to (23/2⁺), 3103; member of band based on 3/2⁺, α=−1/2.
4219.9[b] 12	(31/2⁻)	E	Jπ: γ to (27/2⁻), 3334; member of band based on 3/2⁻, α=−1/2.
4468.4[&] 16	(29/2⁺)	E	Jπ: γ to (25/2⁺), 3533; member of band based on 5/2⁺, α=+1/2.
4955.6[a] 19	(31/2⁺)	E	Jπ: γ to (27/2⁺), 3976; member of band based on 3/2⁺, α=−1/2.
5210.9[b] 16	(35/2⁻)	E	Jπ: γ to (31/2⁻), 4220; member of band based on 3/2⁻, α=−1/2.
6305.9[b] 19	(39/2⁻)	E	Jπ: γ to (35/2⁻), 5211; member of band based on 3/2⁻, α=−1/2.

† From least-squares fit to Eγ's assuming ΔEγ=1 keV for γ's reported with no uncertainty.
‡ From ^{97}Rb β^- data set, unless otherwise noted.
# From ^{252}Cf SF decay.
@ Based on analogy with 9/2[404], 1038.8 isomeric band in ^{99}Zr (2003Ur01) as adopted in ^{238}U(α,Fγ) dataset.
& Band(A): Band based on 5/2⁺, α=+1/2.
a Band(a): Band based on (3/2)⁺, α=−1/2.
b Band(B): Band based on (3/2)⁻, α=−1/2.
c Band(b): Band based on (5/2)⁻, α=+1/2.
d Band(C): ν9/2[404] isomer band.

Adopted Levels, Gammas (continued)

γ(^{97}Sr)

All data are from ^{97}Rb β^- decay data set, unless otherwise noted.
For unplaced γ's see ^{97}Rb β^- decay dataset.
ΔE: assumed by evaluator for γ's from ^{248}Cm SF decay.

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[†&]	Comments
167.13	3/2$^+$	167.1 *1*	100	0.0	1/2$^+$	M1	0.0404	B(M1)(W.u.)=0.021 *4* α(K)=0.0356 *5*; α(L)=0.00402 *6*; α(M)=0.000676 *10*; α(N+..)=9.01×10^{-5} *13* α(N)=8.46×10^{-5} *12*; α(O)=5.43×10^{-6} *8* Mult.: M1 from ^{97}Rb β^-; ΔJ=1 transition from ^{248}Cm SF.
308.13	7/2$^+$	141.0 *1*	100	167.13	3/2$^+$	E2	0.288	α(K)=0.247 *4*; α(L)=0.0347 *5*; α(M)=0.00584 *9*; α(N+..)=0.000722 *11* α(N)=0.000690 *10*; α(O)=3.28×10^{-5} *5* B(E2)(W.u.)=1.76 *10* Mult.: ΔJ=2 transition from ^{248}Cm SF.
312.03		144.9[a] *2*	100	167.13	3/2$^+$			
522.49	3/2$^+$,5/2$^+$	214.3 *2*	4 *1*	308.13	7/2$^+$	[M1,E2]	0.042 *21*	α(K)=0.037 *18*; α(L)=0.0045 *25*; α(M)=0.0008 *4*; α(N+..)=0.00010 *5* α(N)=9.E−5 *5*; α(O)=5.2×10^{-6} *24*
		355.3 *2*	100 *8*	167.13	3/2$^+$	M1	0.00593 *9*	α(K)=0.00524 *8*; α(L)=0.000578 *9*; α(M)=9.72×10^{-5} *14*; α(N+..)=1.299×10^{-5} *19* α(N)=1.220×10^{-5} *18*; α(O)=7.93×10^{-7} *12*
		522.5 *3*	46 *6*	0.0	1/2$^+$	[M1,E2]	0.0028 *5*	α(K)=0.0025 *4*; α(L)=0.00027 *5*; α(M)=4.6×10^{-5} *8*; α(N+..)=6.1×10^{-6} *10* α(N)=5.8×10^{-6} *10*; α(O)=3.6×10^{-7} *5*
585.06	(3/2)$^+$	62.5 *2*	0.12 *12*	522.49	3/2$^+$,5/2$^+$	[M1,E2]	3 *3*	α(K)=2.5 *20*; α(L)=0.5 *5*; α(M)=0.09 *8*; α(N+..)=0.010 *9* α(N)=0.010 *9*; α(O)=0.00031 *23*
		417.9 *2*	28 *2*	167.13	3/2$^+$	M1,E2	0.0052 *12*	α(K)=0.0046 *11*; α(L)=0.00052 *13*; α(M)=8.7×10^{-5} *22*; α(N+..)=1.2×10^{-5} *3* α(N)=1.1×10^{-5} *3*; α(O)=6.7×10^{-7} *14*
		585.2 *2*	100 *3*	0.0	1/2$^+$	M1,E2	0.00207 *25*	α(K)=0.00183 *22*; α(L)=0.00020 *3*; α(M)=3.4×10^{-5} *5*; α(N+..)=4.5×10^{-6} *6* α(N)=4.2×10^{-6} *6*; α(O)=2.7×10^{-7} *3*
600.48	3/2$^+$,5/2$^+$	78.0 *2*	0.24 *24*	522.49	3/2$^+$,5/2$^+$	[M1,E2]	1.4 *11*	α(K)=1.2 *9*; α(L)=0.21 *18*; α(M)=0.04 *3*; α(N+..)=0.004 *4* α(N)=0.004 *4*; α(O)=0.00015 *11*
		433.4 *2*	24.0 *15*	167.13	3/2$^+$	M1,E2	0.0047 *11*	α(K)=0.0041 *9*; α(L)=0.00047 *11*; α(M)=7.8×10^{-5} *19*; α(N+..)=1.04×10^{-5} *24* α(N)=9.8×10^{-6} *23*; α(O)=6.1×10^{-7} *12*
		600.5 *2*	100 *3*	0.0	1/2$^+$	E2,M1	0.00193 *22*	α(K)=0.00171 *19*; α(L)=0.000189 *24*; α(M)=3.2×10^{-5} *4*; α(N+..)=4.2×10^{-6} *5* α(N)=4.0×10^{-6} *5*; α(O)=2.53×10^{-7} *25*

$^{97}_{38}Sr_{59}$-4

Adopted Levels, Gammas (continued)

$\gamma(^{97}Sr)$ (continued)

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ	α[†&]	Comments
644.73	$(3/2)^-$	44.3 *1*	21.2 *23*	600.48	$3/2^+,5/2^+$	(E1)		1.086 *17*	B(E1)(W.u.)=3.7×10^{-5} *7* α(K)=0.955 *15*; α(L)=0.1109 *18*; α(M)=0.0184 *3*; α(N+..)=0.00232 *4* α(N)=0.00220 *4*; α(O)=0.0001177 *18*
		59.7 *1*	73 *5*	585.06	$(3/2)^+$	(E1)		0.460	B(E1)(W.u.)=5.3×10^{-5} *9* α(K)=0.405 *6*; α(L)=0.0460 *7*; α(M)=0.00764 *12*; α(N+..)=0.000976 *15* α(N)=0.000924 *14*; α(O)=5.18×10^{-5} *8*
		122.2 *2*	11 *4*	522.49	$3/2^+,5/2^+$	[E1]		0.0563	B(E1)(W.u.)=9×10^{-7} *4* α(K)=0.0498 *8*; α(L)=0.00548 *9*; α(M)=0.000914 *14*; α(N+..)=0.0001195 *18* α(N)=0.0001127 *17*; α(O)=6.81×10^{-6} *10*
		477.5 *2*	27 *4*	167.13	$3/2^+$	[E1]		0.001261 *18*	B(E1)(W.u.)=3.8×10^{-8} *8* α(K)=0.001117 *16*; α(L)=0.0001207 *17*; α(M)=2.02×10^{-5} *3*; α(N+..)=2.70×10^{-6} α(N)=2.53×10^{-6} *4*; α(O)=1.632×10^{-7} *23*
		644.6 *2*	100 *4*	0.0	$1/2^+$	[E1]		0.000621 *9*	B(E1)(W.u.)=5.7×10^{-8} *9* α(K)=0.000550 *8*; α(L)=5.92×10^{-5} *9*; α(M)=9.93×10^{-6} *14*; α(N+..)=1.326×10^{-6} *19* α(N)=1.245×10^{-6} *18*; α(O)=8.08×10^{-8} *12*
687.09	$5/2^+$	42.4 *1*	0.8 *4*	644.73	$(3/2)^-$	[E1]		1.231 *20*	B(E1)(W.u.)=3.6×10^{-5} *19* α(K)=1.081 *17*; α(L)=0.1262 *20*; α(M)=0.0209 *4*; α(N+..)=0.00263 *4* α(N)=0.00250 *4*; α(O)=0.0001325 *21*
		86.6 *1*	6.2 *8*	600.48	$3/2^+,5/2^+$	[M1,E2]		1.0 *8*	α(K)=0.8 *6*; α(L)=0.14 *12*; α(M)=0.023 *20*; α(N+..)=0.0028 *23* α(N)=0.0027 *22*; α(O)=0.00011 *8*
		102.0 *1*	41 *2*	585.06	$(3/2)^+$	M1+E2	0.43 *12*	0.28 *6*	B(M1)(W.u.)=0.0077 *11*; B(E2)(W.u.)=130 *70* α(K)=0.24 *5*; α(L)=0.033 *9*; α(M)=0.0056 *15*; α(N+..)=0.00070 *17* α(N)=0.00066 *17*; α(O)=3.3×10^{-5} *7* δ: 0.88 *+61−41* from ^{248}Cm SF.
		164.6 *1*	19 *2*	522.49	$3/2^+,5/2^+$	M1		0.0421	α(K)=0.0371 *6*; α(L)=0.00418 *6*; α(M)=0.000704 *10*; α(N+..)=9.38×10^{-5} *14* α(N)=8.81×10^{-5} *13*; α(O)=5.65×10^{-6} *8* B(M1)(W.u.)=0.00101 *13*
		379.0 *2*	24 *2*	308.13	$7/2^+$	(M1)		0.00507 *8*	B(M1)(W.u.)=0.000104 *12* α(K)=0.00448 *7*; α(L)=0.000493 *7*; α(M)=8.29×10^{-5} *12*; α(N+..)=1.109×10^{-5} *16* α(N)=1.041×10^{-5} *15*; α(O)=6.78×10^{-7} *10*
		520.0 *2*	100 *5*	167.13	$3/2^+$	(M1)		0.00239 *4*	α(K)=0.00212 *3*; α(L)=0.000231 *4*; α(M)=3.89×10^{-5} *6*;

$^{97}_{38}Sr_{59}$-5

Adopted Levels, Gammas (continued)

γ(^{97}Sr) (continued)

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ	α[†&]	Comments
									α(N+..)=5.20×10^{-6} *8* α(N)=4.88×10^{-6} *7*; α(O)=3.19×10^{-7} *5* B(M1)(W.u.)=0.000168 *15* Mult.: (M1) from ^{97}Rb β$^-$; ΔJ=1 from ^{248}Cm SF.
687.09	5/2$^+$	687.1 *3*	46 *8*	0.0	1/2$^+$	E2[@]		0.001480 *21*	B(E2)(W.u.)=0.069 *13* α(K)=0.001307 *19*; α(L)=0.0001452 *21*; α(M)=2.44×10^{-5} *4*; α(N+..)=3.23×10^{-6} α(N)=3.04×10^{-6} *5*; α(O)=1.92×10^{-7} *3* Mult.: ΔJ=2 Q transition from ^{248}Cm SF; E2 based on RUL.
713.82	(5/2)$^-$	69.1 *1*	100 *4*	644.73	(3/2)$^-$	M1+E2	0.19 *+6−7*	0.58 *9*	α(K)=0.50 *7*; α(L)=0.067 *15*; α(M)=0.0114 *25*; α(N+..)=0.0014 *3* α(N)=0.0014 *3*; α(O)=7.3×10^{-5} *8* B(M1)(W.u.)=0.021 *4*; B(E2)(W.u.)=1.5×10^2 *10* δ: 1.00 *+65−39* from ^{248}Cm SF.
		113.3 *1*	22 *3*	600.48	3/2$^+$,5/2$^+$	[E1]		0.0703	B(E1)(W.u.)=1.6×10^{-5} *4* α(K)=0.0622 *9*; α(L)=0.00686 *10*; α(M)=0.001143 *17*; α(N+..)=0.0001492 *22* α(N)=0.0001407 *20*; α(O)=8.46×10^{-6} *12*
		128.8 *1*	42 *6*	585.06	(3/2)$^+$	E1[@]		0.0482	B(E1)(W.u.)=2.0×10^{-5} *5* α(K)=0.0426 *6*; α(L)=0.00469 *7*; α(M)=0.000782 *11*; α(N+..)=0.0001024 *15* α(N)=9.65×10^{-5} *14*; α(O)=5.86×10^{-6} *9*
		405.8 *2*	13 *3*	308.13	7/2$^+$	[E1]		0.00190 *3*	B(E1)(W.u.)=2.0×10^{-7} *6* α(K)=0.001685 *24*; α(L)=0.000182 *3*; α(M)=3.06×10^{-5} *5*; α(N+..)=4.07×10^{-6} *6* α(N)=3.82×10^{-6} *6*; α(O)=2.45×10^{-7} *4*
		546.5 *3*	7.5 *15*	167.13	3/2$^+$	[E1]		0.000909 *13*	B(E1)(W.u.)=4.7×10^{-8} *12* α(K)=0.000806 *12*; α(L)=8.69×10^{-5} *13*; α(M)=1.457×10^{-5} *21*; α(N+..)=1.94×10^{-6} α(N)=1.83×10^{-6} *3*; α(O)=1.180×10^{-7} *17*
755.37		232.8 *2*	17 *4*	522.49	3/2$^+$,5/2$^+$				
		588.3 *2*	100 *13*	167.13	3/2$^+$				
768.7		601.6 *3*	15 *5*	167.13	3/2$^+$				
		768.7[e] *4*	100 *15*	0.0	1/2$^+$				
771.48	7/2$^-$	57.7 *1*	100 *10*	713.82	(5/2)$^-$	M1+E2[@]	0.26 *+9−12*	1.2 *3*	α(K)=1.00 *24*; α(L)=0.16 *7*; α(M)=0.027 *11*; α(N+..)=0.0033 *12* α(N)=0.0032 *12*; α(O)=0.00014 *3* δ: from ^{248}Cm SF.
		84.2[b] *3*	17 *7*	687.09	5/2$^+$	E1[@]		0.168 *3*	α(K)=0.149 *3*; α(L)=0.0166 *3*; α(M)=0.00276 *5*; α(N+..)=0.000357 *7* α(N)=0.000337 *6*; α(O)=1.97×10^{-5} *4* I$_\gamma$: from ^{248}Cm SF.

Adopted Levels, Gammas (continued)

$\gamma(^{97}Sr)$ (continued)

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ	α[†&]	Comments
		126.7 *2*	30 *10*	644.73	$(3/2)^-$	E2[@]		0.427	α(K)=0.364 *6*; α(L)=0.0531 *9*; α(M)=0.00893 *14*; α(N+..)=0.001096 *17*

$^{97}_{38}Sr_{59}$-7

Adopted Levels, Gammas (continued)

γ(^{97}Sr) (continued)

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[†&]	Comments
								α(N)=0.001048 *16*; α(O)=4.77×10^{-5} *8* Mult.: Q, ΔJ=2 transition from ^{248}Cm SF; E2 from negative-parity band γ.
822.42	(7/2)$^+$	135.4 *2*	60 *10*	687.09	5/2$^+$	(E2(+M1))[@]	0.20 *14*	α(K)=0.17 *12*; α(L)=0.024 *17*; α(M)=0.004 *3*; α(N+..)=0.0005 *4* α(N)=0.0005 *4*; α(O)=2.4×10^{-5} *15*
		237.3 *2*	100 *20*	585.06	(3/2)$^+$	E2[@]	0.0438	B(E2)(W.u.)=77 *22* α(K)=0.0381 *6*; α(L)=0.00472 *7*; α(M)=0.000793 *12*; α(N+..)=0.0001015 *15* α(N)=9.61×10^{-5} *14*; α(O)=5.31×10^{-6} *8* Mult.: Q, ΔJ=2 transition from ^{248}Cm SF; E2 based on RUL.
830.83	(9/2$^+$)	522.7[a] *2*	100	308.13	7/2$^+$	[M1,E2]	0.0028 *5*	α(K)=0.0025 *4*; α(L)=0.00027 *5*; α(M)=4.6×10^{-5} *8*; α(N+..)=6.1×10^{-6} *10* α(N)=5.8×10^{-6} *10*; α(O)=3.6×10^{-7} *5*
916.44		229.6 *7*	14 *9*	687.09	5/2$^+$			
		315.5 *3*	14 *5*	600.48	3/2$^+$,5/2$^+$			
		331.3 *3*	18 *5*	585.06	(3/2)$^+$			
		394.1 *3*	68 *9*	522.49	3/2$^+$,5/2$^+$			
		749.4 *3*	100 *18*	167.13	3/2$^+$			
		917.0 *4*	27 *9*	0.0	1/2$^+$			
946.56	(9/2$^-$)	175.0[b] *3*	80 *40*	771.48	7/2$^-$	[M1,E2]	0.08 *5*	α(K)=0.07 *4*; α(L)=0.009 *6*; α(M)=0.0016 *10*; α(N+..)=0.00020 *12* α(N)=0.00019 *12*; α(O)=1.0×10^{-5} *6*
		232.7[b] *3*	100 *40*	713.82	(5/2)$^-$	[E2]	0.0469	α(K)=0.0409 *6*; α(L)=0.00507 *8*; α(M)=0.000852 *13*; α(N+..)=0.0001090 *17* α(N)=0.0001033 *16*; α(O)=5.68×10^{-6} *9*
985.49	(3/2$^+$,5/2$^+$)	271.7 *7*	2 *1*	713.82	(5/2)$^-$	[E1]	0.00559 *9*	B(E1)(W.u.)>2.3×10^{-5} α(K)=0.00495 *8*; α(L)=0.000539 *9*; α(M)=9.01×10^{-5} *15*; α(N+..)=1.194×10^{-5} *19* α(N)=1.123×10^{-5} *18*; α(O)=7.10×10^{-7} *12*
		298.4 *2*	9 *2*	687.09	5/2$^+$	[M1,E2]	0.014 *6*	α(K)=0.013 *5*; α(L)=0.0015 *6*; α(M)=0.00025 *10*; α(N+..)=3.2×10^{-5} *13* α(N)=3.1×10^{-5} *12*; α(O)=1.8×10^{-6} *6*
		385.3 *3*	15 *3*	600.48	3/2$^+$,5/2$^+$	[M1,E2]	0.0066 *18*	α(K)=0.0058 *15*; α(L)=0.00066 *19*; α(M)=0.00011 *4*; α(N+..)=1.5×10^{-5} *4* α(N)=1.4×10^{-5} *4*; α(O)=8.5×10^{-7} *21*
		400.4 *2*	55 *4*	585.06	(3/2)$^+$	(M1)	0.00444 *7*	B(M1)(W.u.)>0.014 α(K)=0.00393 *6*; α(L)=0.000432 *6*; α(M)=7.25×10^{-5} *11*;

$^{97}_{38}Sr_{59}$-8

Adopted Levels, Gammas (continued)

$\gamma(^{97}Sr)$ (continued)

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[†&]	Comments
								α(N+..)=9.70×10^{-6} *14* α(N)=9.11×10^{-6} *13*; α(O)=5.93×10^{-7} *9*
985.49	(3/2$^+$,5/2$^+$)	818.5 *5*	50 *14*	167.13	3/2$^+$	[M1,E2]	0.00090 *4*	α(K)=0.00080 *4*; α(L)=8.7×10^{-5} *5*; α(M)=1.46×10^{-5} *8*; α(N+..)=1.95×10^{-6} *10* α(N)=1.83×10^{-6} *9*; α(O)=1.19×10^{-7} *5*
		985.3 *3*	100 *9*	0.0	1/2$^+$	[M1,E2]	0.000589 *14*	α(K)=0.000521 *12*; α(L)=5.65×10^{-5} *16*; α(M)=9.5×10^{-6} *3*; α(N+..)=1.27×10^{-6} *4* α(N)=1.19×10^{-6} *3*; α(O)=7.77×10^{-8} *14*
992.4	9/2$^+$	305.3[b] *3*		687.09	5/2$^+$	E2[@]	0.0182	α(K)=0.01590 *23*; α(L)=0.00190 *3*; α(M)=0.000318 *5*; α(N+..)=4.12×10^{-5} *6* α(N)=3.90×10^{-5} *6*; α(O)=2.25×10^{-6} *4* Mult.: Q, ΔJ=2 transition from ^{248}Cm SF; E2 from posity-parity band γ.
995.2	11/2$^-$	48.5[b] *3*	13 *5*	946.56	(9/2$^-$)	[M1,E2]	8 *7*	α(K)=6 *5*; α(L)=1.6 *15*; α(M)=0.27 *25*; α(N+..)=0.03 *3* α(N)=0.03 *3*; α(O)=0.0007 *6*
		223.8[b] *3*	100 *8*	771.48	7/2$^-$	E2[@]	0.0539	α(K)=0.0469 *7*; α(L)=0.00587 *9*; α(M)=0.000986 *15*; α(N+..)=0.0001258 *19* α(N)=0.0001193 *18*; α(O)=6.50×10^{-6} *10* Mult.: Q, ΔJ=2 transition from ^{248}Cm SF; E2 from negative-parity band γ.
1036.73	(11/2$^+$)	205.9[a] *1*	100	830.83	(9/2$^+$)	[M1,E2]	0.048 *25*	α(K)=0.042 *22*; α(L)=0.005 *3*; α(M)=0.0009 *5*; α(N+..)=0.00011 *6* α(N)=0.00011 *6*; α(O)=6.E−6 *3*
1095.50	(3/2$^+$,5/2)	273.1 *2*	5 *3*	822.42	(7/2)$^+$			
		382.4 *10*	8 *5*	713.82	(5/2)$^-$			
		408.4 *3*	45 *13*	687.09	5/2$^+$			
		495.1 *2*	100 *8*	600.48	3/2$^+$,5/2$^+$			
		510.3 *4*	30 *10*	585.06	(3/2)$^+$			
		573.0 *3*	15 *3*	522.49	3/2$^+$,5/2$^+$			
		787.0 *4*	50 *10*	308.13	7/2$^+$			
1197.9	(11/2)$^+$	375.5[b] *3*	100	822.42	(7/2)$^+$	E2[@]	0.00907 *13*	α(K)=0.00796 *12*; α(L)=0.000928 *14*; α(M)=0.0001557 *23*; α(N+..)=2.03×10^{-5} α(N)=1.92×10^{-5} *3*; α(O)=1.143×10^{-6} *17* Mult.: Q, ΔJ=2 transition from ^{248}Cm SF; E2 from posity-parity band γ.
1276.34	(13/2$^+$)	239.6[a] *1*		1036.73	(11/2$^+$)	[M1,E2]	0.029 *14*	α(K)=0.025 *12*; α(L)=0.0031 *15*; α(M)=0.0005 *3*; α(N+..)=7.E−5 *4* α(N)=6.E−5 *3*; α(O)=3.6×10^{-6} *15*
		445.5[a] *1*		830.83	(9/2$^+$)	[E2]	0.00524 *8*	α(K)=0.00461 *7*; α(L)=0.000529 *8*; α(M)=8.87×10^{-5} *13*; α(N+..)=1.164×10^{-5} *17* α(N)=1.097×10^{-5} *16*; α(O)=6.68×10^{-7} *10*

$^{97}_{38}Sr_{59}$-9

Adopted Levels, Gammas (continued)

γ(^{97}Sr) (continued)

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[†&]	Comments
1278.2		283[b]	100	995.2	11/2$^-$			
		332[be]		946.56	(9/2$^-$)			
1320.70		565.3 *3*	13 *3*	755.37				
		720.3 *2*	85 *4*	600.48	3/2$^+$,5/2$^+$			
		735.6 *2*	100 *6*	585.06	(3/2)$^+$			
		1320.8 *4*	39 *6*	0.0	1/2$^+$			
1342.6	(13/2$^-$)	396[c]	100	946.56	(9/2$^-$)	[E2]	0.00763 *11*	α(K)=0.00670 *10*; α(L)=0.000776 *11*; α(M)=0.0001303 *19*; α(N+..)=1.704×10^{-5} α(N)=1.607×10^{-5} *23*; α(O)=9.65×10^{-7} *14*
1374.67		389.3 *3*	11 *3*	985.49	(3/2$^+$,5/2$^+$)			
		660.5 *4*	25 *4*	713.82	(5/2)$^-$			
		687.7 *2*	100 *20*	687.09	5/2$^+$			
		789.7 *4*	41 *8*	585.06	(3/2)$^+$			
		1207.0 *4*	20 *4*	167.13	3/2$^+$			
1383.6	15/2$^-$	388.4[b] *3*	100	995.2	11/2$^-$	E2[@]	0.00812 *12*	α(K)=0.00713 *11*; α(L)=0.000828 *12*; α(M)=0.0001390 *20*; α(N+..)=1.82×10^{-5} α(N)=1.714×10^{-5} *25*; α(O)=1.026×10^{-6} *15* Mult.: ΔJ=2 Q transition from ^{248}Cm SF; E2 from negative-parity band γ.
1435.3	13/2$^+$	442.9[b] *3*	100	992.4	9/2$^+$	E2[@]	0.00534 *8*	α(K)=0.00470 *7*; α(L)=0.000539 *8*; α(M)=9.04×10^{-5} *13*; α(N+..)=1.186×10^{-5} *17* α(N)=1.118×10^{-5} *16*; α(O)=6.80×10^{-7} *10* Mult.: Q, ΔJ=2 transition from ^{248}Cm SF; E2 from posity-parity band γ.
1507.3	(1/2$^+$,3/2,5/2$^+$)	591.0 *4*	57 *21*	916.44				
		820.0 *5*	50 *14*	687.09	5/2$^+$			
		1507.3 *5*	100 *18*	0.0	1/2$^+$			
1548.83	(15/2$^+$)	272.5[a] *1*		1276.34	(13/2$^+$)	[M1,E2]	0.019 *8*	α(K)=0.017 *7*; α(L)=0.0020 *9*; α(M)=0.00033 *15*; α(N+..)=4.3×10^{-5} *19* α(N)=4.1×10^{-5} *18*; α(O)=2.4×10^{-6} *9*
		512.1[a] *1*		1036.73	(11/2$^+$)	[E2]	0.00342 *5*	α(K)=0.00301 *5*; α(L)=0.000341 *5*; α(M)=5.73×10^{-5} *8*; α(N+..)=7.55×10^{-6} *11* α(N)=7.11×10^{-6} *10*; α(O)=4.39×10^{-7} *7*
1707.6	(15/2)$^+$	509.7[b] *3*	100	1197.9	(11/2)$^+$	E2[@]	0.00347 *5*	α(K)=0.00305 *5*; α(L)=0.000346 *5*; α(M)=5.81×10^{-5} *9*; α(N+..)=7.66×10^{-6} *11* α(N)=7.21×10^{-6} *11*; α(O)=4.45×10^{-7} *7* Mult.: Q, ΔJ=2 transition from ^{248}Cm SF; E2 from posity-parity band γ.
1852.84	(17/2$^+$)	304.0[a] *1*		1548.83	(15/2$^+$)	[M1,E2]	0.014 *5*	α(K)=0.012 *5*; α(L)=0.0014 *6*; α(M)=0.00023 *9*;

$^{97}_{38}Sr_{59}$-10

Adopted Levels, Gammas (continued)

$\gamma(^{97}Sr)$ (continued)

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[†&]	Comments
								α(N+..)=3.0×10^{-5} *12* α(N)=2.9×10^{-5} *11*; α(O)=1.7×10^{-6} *6*
1852.84	(17/2$^+$)	576.5[a] *1*		1276.34	(13/2$^+$)	[E2]	0.00241 *4*	α(K)=0.00213 *3*; α(L)=0.000239 *4*; α(M)=4.02×10^{-5} *6*; α(N+..)=5.30×10^{-6} *8* α(N)=4.99×10^{-6} *7*; α(O)=3.11×10^{-7} *5*
1903.6	(17/2$^-$)	561[c]	100	1342.6	(13/2$^-$)	[E2]	0.00261 *4*	α(K)=0.00230 *4*; α(L)=0.000259 *4*; α(M)=4.35×10^{-5} *6*; α(N+..)=5.75×10^{-6} *8* α(N)=5.41×10^{-6} *8*; α(O)=3.37×10^{-7} *5*
1906.4	19/2$^-$	522.8[b] *3*	100	1383.6	15/2$^-$	E2[@]	0.00321 *5*	α(K)=0.00283 *4*; α(L)=0.000321 *5*; α(M)=5.38×10^{-5} *8*; α(N+..)=7.09×10^{-6} *10* α(N)=6.68×10^{-6} *10*; α(O)=4.13×10^{-7} *6* Mult.: ΔJ=2 Q transition from ^{248}Cm SF; E2 from negative-parity band γ.
2010.4	17/2$^+$	575.1[b] *3*	100	1435.3	13/2$^+$	E2[@]	0.00243 *4*	α(K)=0.00214 *3*; α(L)=0.000241 *4*; α(M)=4.04×10^{-5} *6*; α(N+..)=5.34×10^{-6} *8* α(N)=5.03×10^{-6} *7*; α(O)=3.14×10^{-7} *5* Mult.: Q, ΔJ=2 transition from ^{248}Cm SF; E2 from posity-parity band γ.
2188.4	(19/2$^+$)	335.5[b] *3*		1852.84	(17/2$^+$)	[M1,E2]	0.010 *4*	α(K)=0.009 *3*; α(L)=0.0010 *4*; α(M)=0.00017 *6*; α(N+..)=2.2×10^{-5} *8* α(N)=2.1×10^{-5} *7*; α(O)=1.3×10^{-6} *4*
		640[c]		1548.83	(15/2$^+$)	[E2]	0.00180 *3*	α(K)=0.001586 *23*; α(L)=0.0001770 *25*; α(M)=2.97×10^{-5} *5*; α(N+..)=3.93×10^{-6} *6* α(N)=3.70×10^{-6} *6*; α(O)=2.33×10^{-7} *4*
2345.6	(19/2$^+$)	638.0[b] *3*	100	1707.6	(15/2)$^+$	[E2]	0.00181 *3*	α(K)=0.001600 *23*; α(L)=0.000179 *3*; α(M)=3.00×10^{-5} *5*; α(N+..)=3.97×10^{-6} *6* α(N)=3.73×10^{-6} *6*; α(O)=2.35×10^{-7} *4*
2553.6	(21/2$^+$)	365[c]		2188.4	(19/2$^+$)	[M1,E2]	0.0078 *22*	α(K)=0.0068 *20*; α(L)=0.00078 *24*; α(M)=0.00013 *4*; α(N+..)=1.7×10^{-5} *5* α(N)=1.6×10^{-5} *5*; α(O)=1.0×10^{-6} *3*
		701[c]		1852.84	(17/2$^+$)	[E2]	0.001403 *20*	α(K)=0.001239 *18*; α(L)=0.0001375 *20*; α(M)=2.31×10^{-5} *4*; α(N+..)=3.06×10^{-6} α(N)=2.88×10^{-6} *4*; α(O)=1.82×10^{-7} *3*
2559.9	23/2$^-$	653.5[b] *3*	100	1906.4	19/2$^-$	E2[@]	0.001697 *24*	α(K)=0.001498 *21*; α(L)=0.0001669 *24*; α(M)=2.80×10^{-5} *4*; α(N+..)=3.71×10^{-6} α(N)=3.49×10^{-6} *5*; α(O)=2.20×10^{-7} *3* Mult.: ΔJ=2 Q transition from ^{248}Cm SF; E2 from negative-parity band γ.
2640.6	(21/2$^-$)	737[c]	100	1903.6	(17/2$^-$)	[E2]	0.001229 *18*	α(K)=0.001086 *16*; α(L)=0.0001201 *17*; α(M)=2.02×10^{-5} *3*; α(N+..)=2.68×10^{-6} α(N)=2.52×10^{-6} *4*; α(O)=1.599×10^{-7} *23*
2712.4	(21/2$^+$)	702.0[b] *3*	100	2010.4	17/2$^+$	[E2]	0.001397 *20*	α(K)=0.001234 *18*; α(L)=0.0001370 *20*; α(M)=2.30×10^{-5} *4*; α(N+..)=3.05×10^{-6} α(N)=2.87×10^{-6} *4*; α(O)=1.82×10^{-7} *3*

$^{97}_{38}Sr_{59}$-11

Adopted Levels, Gammas (continued)

γ(^{97}Sr) (continued)

E_i(level)	J_i^π	E_γ	I_γ[‡]	E_f	J_f^π	Mult.[#]	α[†&]	Comments
2854.9		1480.0 *5*	100 *29*	1374.67				
		1535.3 *8*	29 *15*	1320.70				
		2254.0 *6*	100 *29*	600.48	$3/2^+$,$5/2^+$			
2948.5	$(23/2^+)$	395[c]		2553.6	$(21/2^+)$	[M1,E2]	0.0061 *16*	α(K)=0.0054 *14*; α(L)=0.00061 *17*; α(M)=0.00010 *3*; α(N+..)=1.4×10^{-5} *4* α(N)=1.3×10^{-5} *4*; α(O)=7.9×10^{-7} *18*
		760[c]		2188.4	$(19/2^+)$	[E2]	0.001134 *16*	α(K)=0.001002 *14*; α(L)=0.0001107 *16*; α(M)=1.86×10^{-5} *3*; α(N+..)=2.47×10^{-6} α(N)=2.32×10^{-6} *4*; α(O)=1.478×10^{-7} *21*
3102.6	$(23/2^+)$	757[c]		2345.6	$(19/2^+)$	[E2]	0.001146 *16*	α(K)=0.001013 *15*; α(L)=0.0001119 *16*; α(M)=1.88×10^{-5} *3*; α(N+..)=2.49×10^{-6} α(N)=2.35×10^{-6} *4*; α(O)=1.493×10^{-7} *21*
3333.9	$(27/2^-)$	774.0[b] *3*	100	2559.9	$23/2^-$	[E2]	0.001082 *16*	α(K)=0.000956 *14*; α(L)=0.0001055 *15*; α(M)=1.771×10^{-5} *25* α(N)=2.21×10^{-6} *4*; α(O)=1.410×10^{-7} *20*
3533.4	$(25/2^+)$	821[c]	100	2712.4	$(21/2^+)$	[E2]	0.000932 *13*	α(K)=0.000824 *12*; α(L)=9.06×10^{-5} *13*; α(M)=1.521×10^{-5} *22*; α(N+..)=2.02×10^{-6} α(N)=1.90×10^{-6} *3*; α(O)=1.216×10^{-7} *17*
3975.6	$(27/2^+)$	873[c]	100	3102.6	$(23/2^+)$	[E2]	0.000800 *12*	α(K)=0.000708 *10*; α(L)=7.76×10^{-5} *11*; α(M)=1.302×10^{-5} *19*; α(N+..)=1.734×10^{-6} α(N)=1.630×10^{-6} *23*; α(O)=1.046×10^{-7} *15*
4219.9	$(31/2^-)$	886[c]	100	3333.9	$(27/2^-)$	[E2]	0.000772 *11*	α(K)=0.000683 *10*; α(L)=7.48×10^{-5} *11*; α(M)=1.255×10^{-5} *18*; α(N+..)=1.672×10^{-6} α(N)=1.571×10^{-6} *22*; α(O)=1.009×10^{-7} *15*
4468.4	$(29/2^+)$	935[c]	100	3533.4	$(25/2^+)$	[E2]	0.000678 *10*	α(K)=0.000600 *9*; α(L)=6.56×10^{-5} *10*; α(M)=1.100×10^{-5} *16*; α(N+..)=1.467×10^{-6} α(N)=1.378×10^{-6} *20*; α(O)=8.87×10^{-8} *13*
4955.6	$(31/2^+)$	980[c]	100	3975.6	$(27/2^+)$	[E2]	0.000607 *9*	α(K)=0.000537 *8*; α(L)=5.86×10^{-5} *9*; α(M)=9.83×10^{-6} *14*; α(N+..)=1.311×10^{-6} *19* α(N)=1.231×10^{-6} *18*; α(O)=7.95×10^{-8} *12*
5210.9	$(35/2^-)$	991[c]	100	4219.9	$(31/2^-)$	[E2]	0.000591 *9*	α(K)=0.000523 *8*; α(L)=5.70×10^{-5} *8*; α(M)=9.57×10^{-6} *14*; α(N+..)=1.277×10^{-6} *18* α(N)=1.199×10^{-6} *17*; α(O)=7.75×10^{-8} *11*
6305.9	$(39/2^-)$	1095[c]	100	5210.9	$(35/2^-)$	[E2]	0.000471 *7*	α(K)=0.000417 *6*; α(L)=4.52×10^{-5} *7*; α(M)=7.59×10^{-6} *11*; α(N+..)=1.014×10^{-6} *15* α(N)=9.52×10^{-7} *14*; α(O)=6.18×10^{-8} *9*

[†] Additional information 1.

Adopted Levels, Gammas (continued)

$\gamma(^{97}Sr)$ (continued)

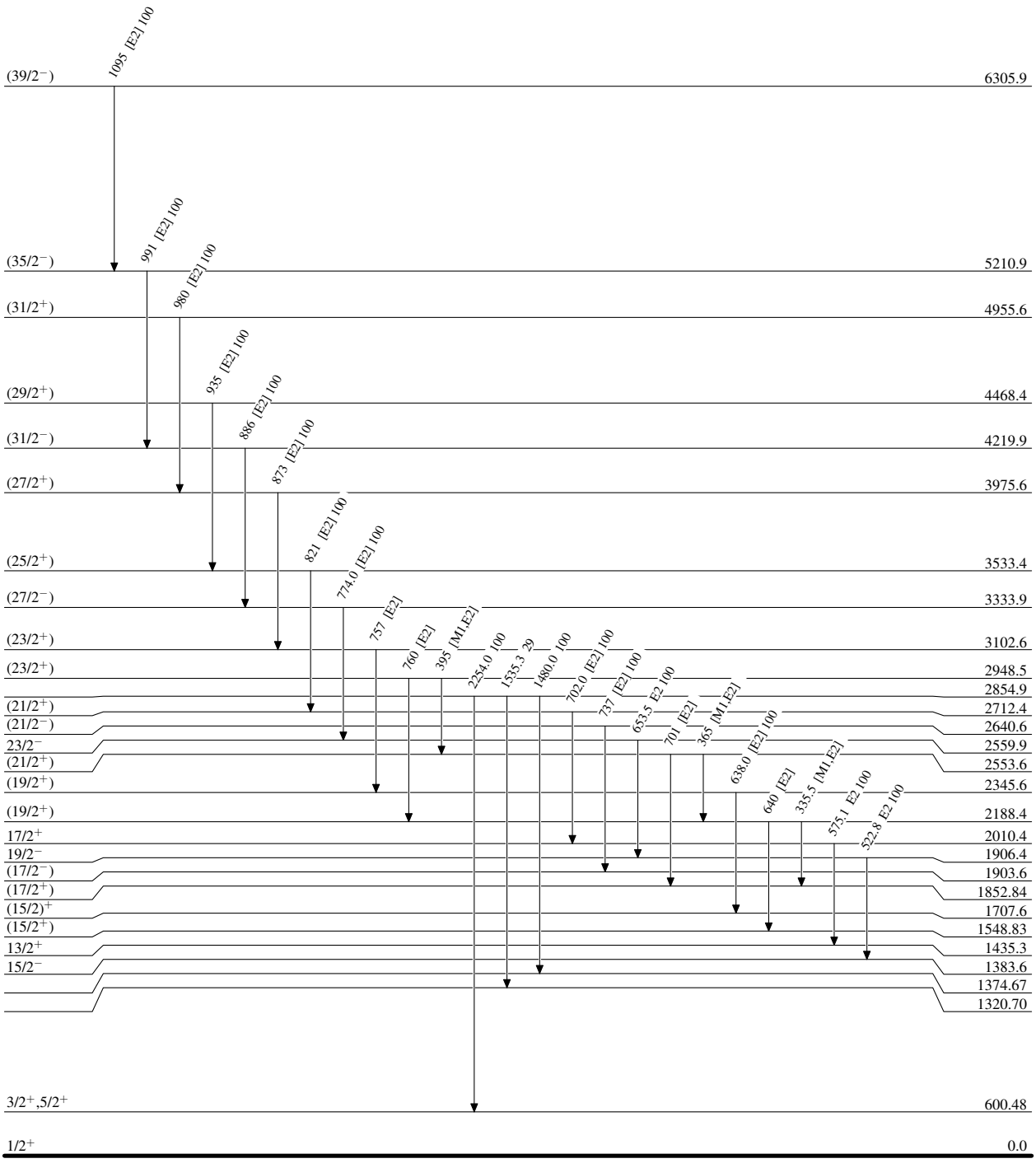
‡ Relative Iγ deexciting level.
# From ^{97}Rb β^- dataset when not noted otherwise; deduced from α(exp) and α(K)exp (measured intensity balance and I(K x ray)/Iγ, respectively, in coincidence spectra). See also table comments.
@ From ^{248}Cm SF dataset deduced by evaluator from ang. correlations and α(exp)′s (from intensity balance). See also table comments.
& For M1,E2 and E2,M1 transitions the α given is the average of α(M1) and α(E2) with the uncertainty including both values.
[a] From ^{252}Cf SF decay.
[b] From ^{248}Cm SF decay.
[c] From ^{238}U(α,Fγ) dataset.
[d] assumed by evaluator for γ′s from ^{248}Cm SF decay.
[e] Placement of transition in the level scheme is uncertain.

$^{97}_{38}Sr_{59}$-13

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

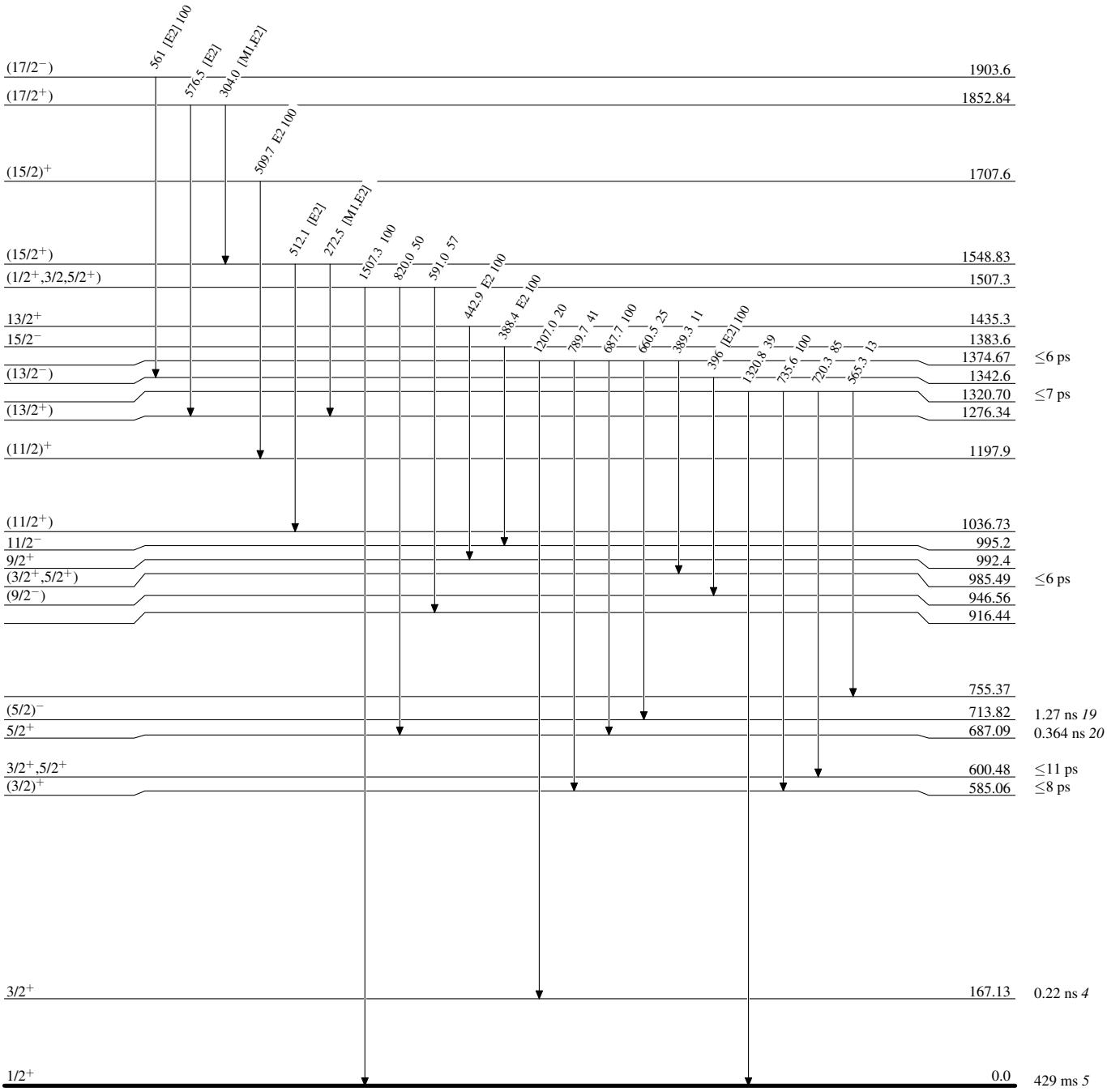


$^{97}_{38}Sr_{59}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{97}_{38}Sr_{59}$

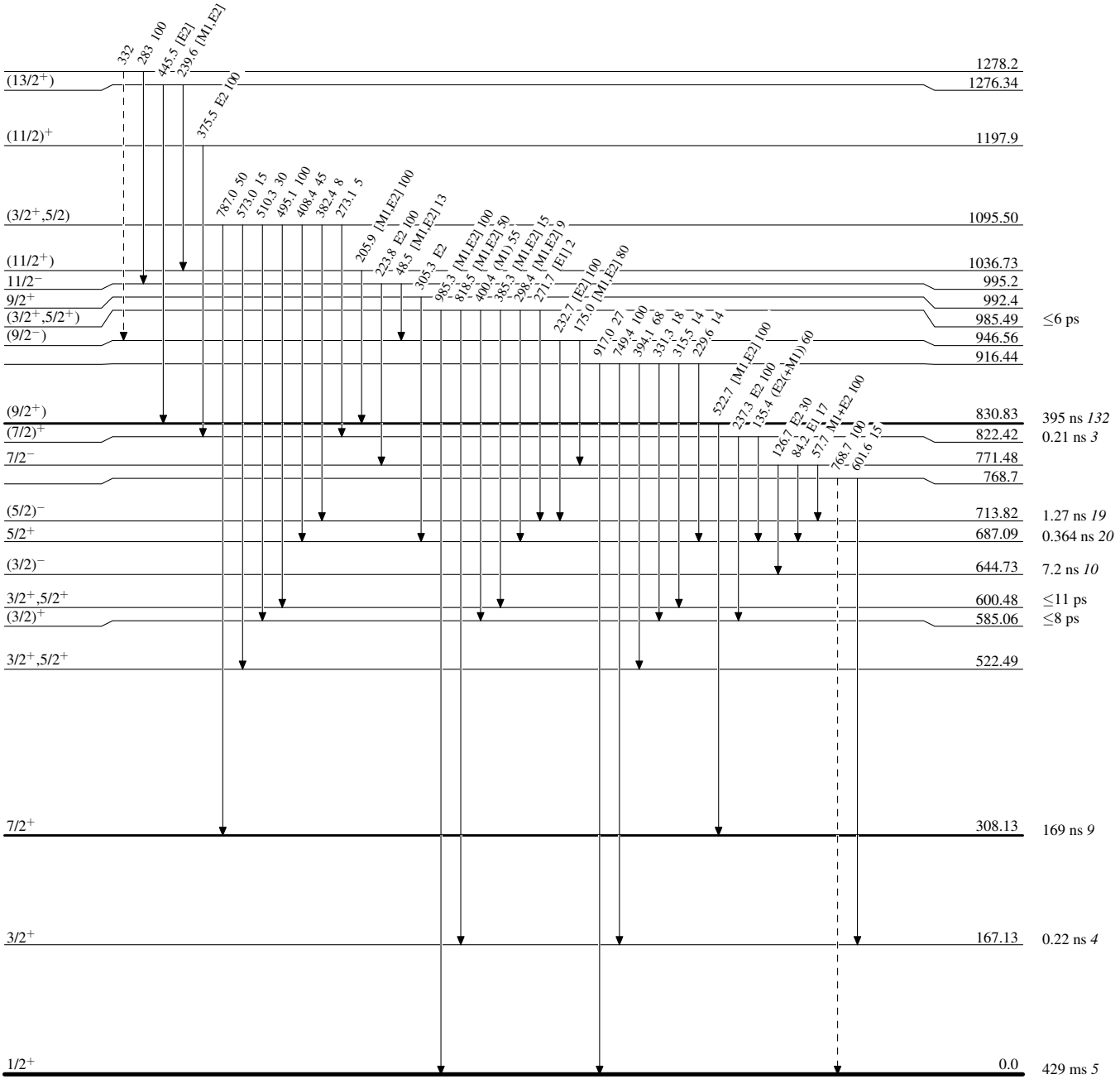
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

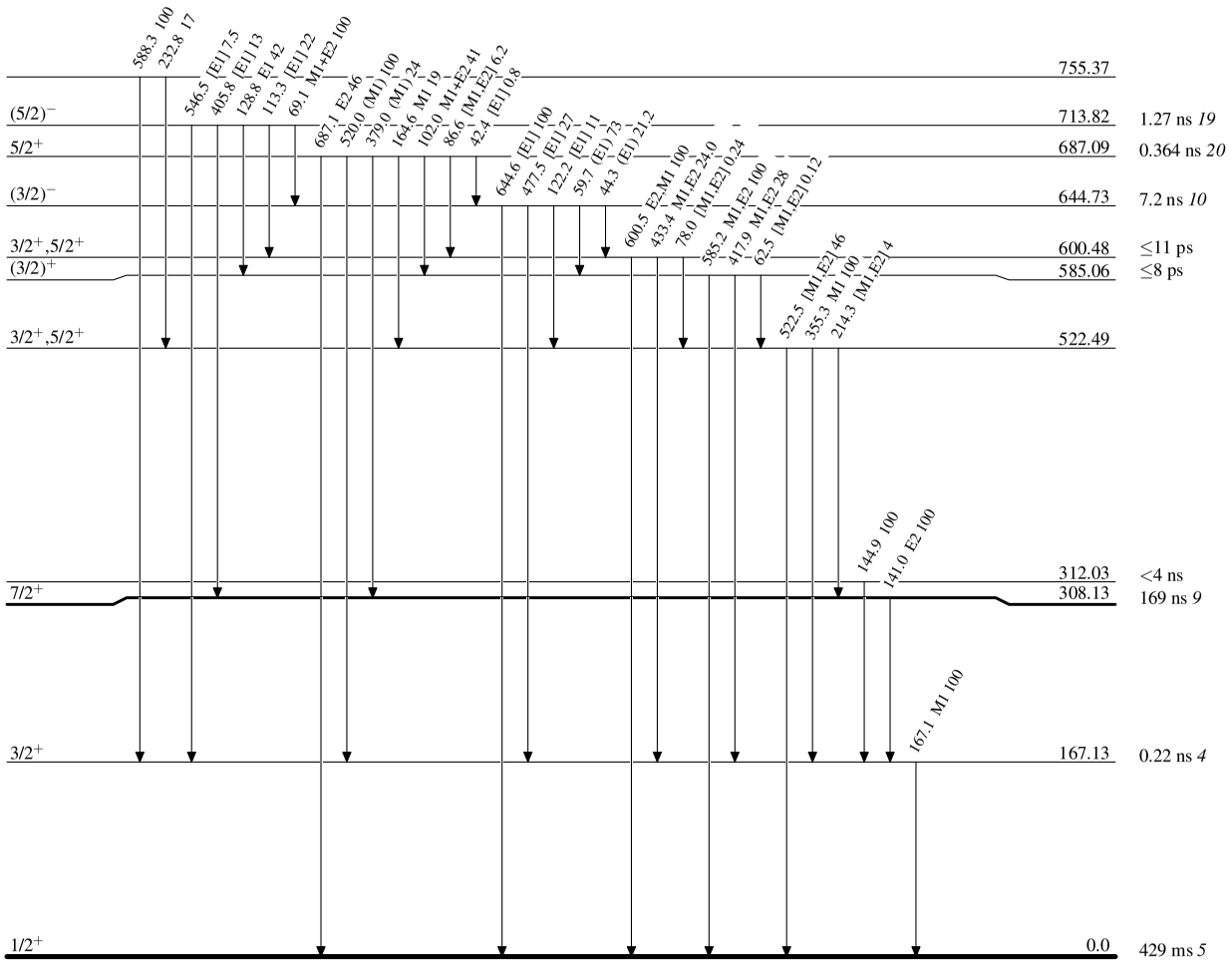


$^{97}_{38}Sr_{59}$

Adopted Levels, Gammas

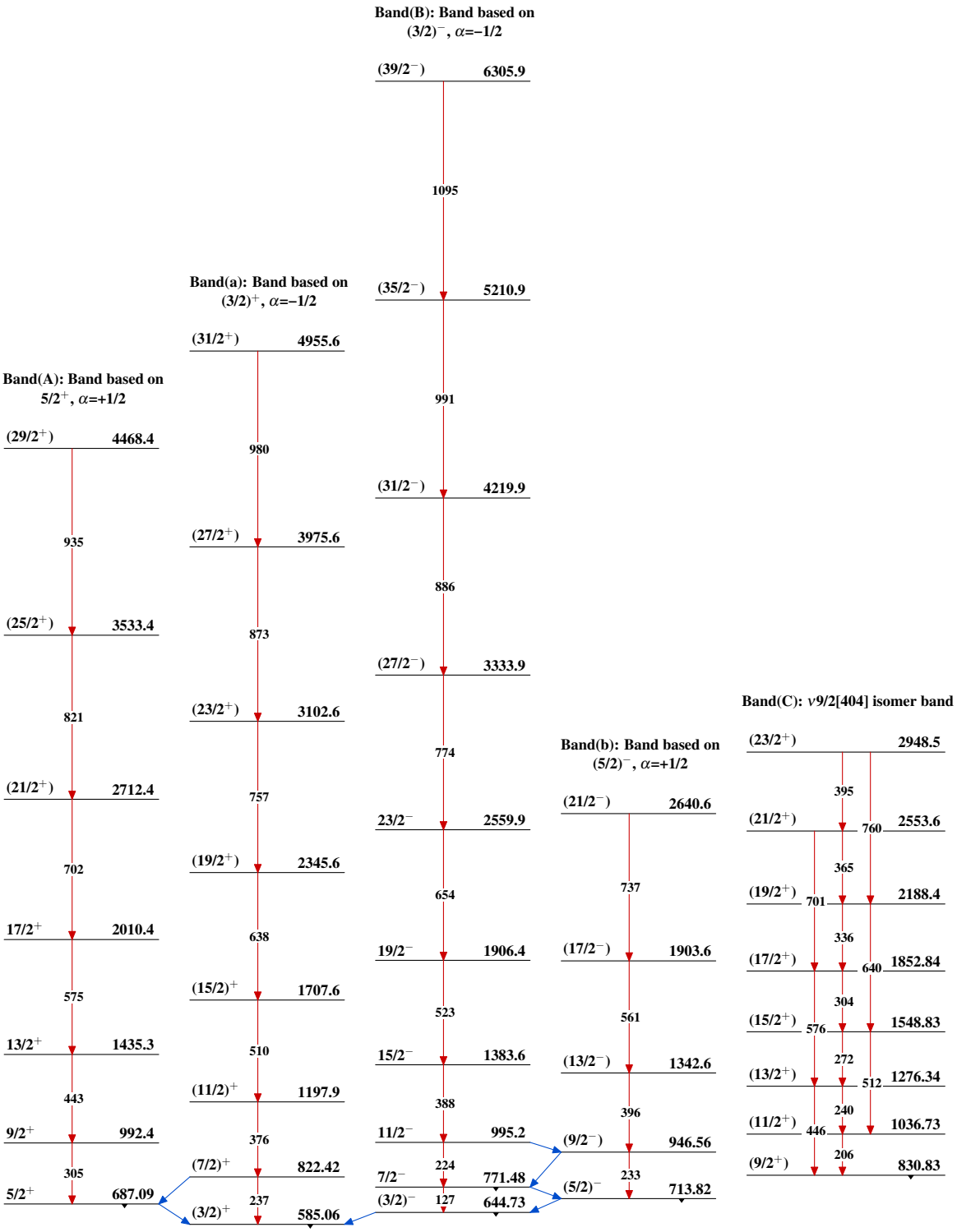
Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{97}_{38}Sr_{59}$

Adopted Levels, Gammas



$^{97}_{38}Sr_{59}$