^{76}Se(pol γ,γ') 2013Go19

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Jun Chen and Ameenah R. Farhan	NDS 194,3 (2024)	8-Jan-2024

See also ^{76}Se(γ,γ') dataset based on 2012Co17 paper.

2013Go19 (also 2015CoZV thesis): E(γ)=4-9 MeV polarized nearly monoenergetic photon beam produced at HIγS facility at TUNL. Photon beam is produced by the intercavity Compton backscattering of linearly polarized free-electron laser photons with a high-energy electron beam. Target=11.96 g of 97% enriched ^{76}Se powder. Measured Eγ, Iγ, $\gamma(\theta,\phi)$ using four HPGe detectors at (θ,ϕ)=(90°,0°), (90°,90°), (90°,180°), (90°,270°), where θ=polar angle with respect to the incoming beam and ϕ=azimuthal angle measured from the polarization plane. A fifth Ge detector was placed at (θ,ϕ)=(135°,0°) to distinguish spins of the positive-parity states. Deduced levels, J, π, widths and level lifetimes, B(E1), B(M1), branching ratios. 2013Go19 state that results of ^{76}Se(pol γ,γ') for energy below 5 MeV will be published in a forthcoming paper. Some misprints in paper, as indicated in the dataset, have been checked with P. Goddard through e-mails of Dec 31, 2013, Jan 14, 2014.

^{76}Se Levels

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$[#]	Γ (meV)[a]	Comments
0.0	0^+			
559.103[@] *5*	2^+[@]			
1216.154[@] *6*	2^+[@]			
4055.2 *3*	1^+	29.3 fs *26*	15.6 *14*	
4125.5 *10*	1^+	98 fs *38*	4.6 *18*	
4218.9 *3*	1^+	2.98 fs *35*	154 *17*	
4535.5 *6*	1^+	10.1 fs *24*	45 *10*	
4601.6 *11*	1^-	8.0 fs *24*	57 *17*	
4662.9 *4*	1^-	5.4 fs *9*	85 *14*	
4673.7 *14*	1^+	54 fs *18*	8.5 *29*	
4720.7 *7*	1^-	6.4 fs *10*	71 *11*	J$^\pi$: 1^+ in Table I of 2013Go19 is a misprint; should be 1^- according to e-mail reply of Dec 9, 2013 from P.M. Goddard.
4880.0 *4*	1^-	19 fs *4*	24 *5*	
4887.1 *3*	1^-	27 fs *9*	17 *6*	
4931.6 *17*	1^-	79 fs *21*	5.8 *15*	
4984.5 *5*	1^-	6.0 fs *11*	76 *14*	
5001.5 *3*	1^-	8.4 fs *6*	54.5 *40*	
5010.5 *3*	1^-	3.7 fs *7*	121 *26*	
5073.9 *2*	1^-	2.43 fs *28*	187 *20*	
5194.7 *3*	1^-	2.29 fs *28*	200 *22*	
5217.8 *11*	1^-	12.1 fs *26*	37.6 *81*	
5297.9[&] *3*	$1^{(+)}$	13.7 fs *8*	33.4 *20*	
5298.6[&] *2*	1^-	3.56 fs *23*	128 *8*	
5324.0 *4*	1^-	3.12 fs *35*	147 *17*	
5346.2 *4*	1^-	3.5 fs *8*	133 *30*	
5375.8 *4*	1^-	1.46 fs *14*	319 *35*	
5405.2 *18*	1^-	26 fs *8*	17.7 *55*	
5412.6 *14*	1^-	1.5 fs *4*	319 *35*	
5425.3 *6*	1^-	3.6 fs *5*	127 *18*	
5551.8 *15*	1^-	9.4 fs *24*	48 *12*	
5629.8 *15*	1^-	24 fs *8*	18.7 *58*	
5637.7 *15*	1^-	24 fs *8*	19 *6*	
5669.2 *15*	1^-	22 fs *8*	20.9 *74*	
5685.5 *4*	1^-	8.0 fs *7*	57.4 *51*	
5709.8 *5*	1^-	7.4 fs *7*	61.9 *57*	
5740.7 *5*	1^-	5.6 fs *5*	81.1 *66*	
5762.0 *10*	1^-	15.7 fs *34*	29 *6*	
5773.3 *20*	1^-	17.1 fs *26*	26.6 *40*	

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^{76}Se(pol γ,γ') 2013Go19 (continued)

^{76}Se Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	Γ (meV)[a]	Comments
5781.2 *2*	1$^-$	4.4 fs *10*	102 *22*	
5803.6 *7*	1$^-$	2.6 fs *6*	178 *43*	
5813.9 *5*	1$^-$	8.0 fs *8*	57.2 *54*	
5842.2 *3*	1$^-$	2.1 fs *6*	221 *65*	
5865.3 *7*	1$^-$	7.6 fs *11*	59.8 *85*	
5879.6 *7*	1$^-$	14.8 fs *19*	31 *4*	
5892.1 *6*	1$^-$	3.4 fs *6*	136 *24*	
5998.7 *14*	1$^-$	5.3 fs *12*	85 *19*	
6035.7 *5*	1$^-$	2.6 fs *4*	174 *26*	
6099.2 *6*	1$^-$	2.8 fs *5*	164 *27*	Mean lifetime τ=4.00 fs *7* in Table I of 2013Go19 should be 4.0 fs *7*.
6131.5 *6*	1$^-$	11.5 fs *18*	39.6 *61*	
6156.6 *14*	1$^-$	55 fs *10*	84 *15*	
6165.1 *11*	1$^-$	21 fs *6*	22.3 *66*	
6196.2 *11*	1$^-$	10.0 fs *13*	45.7 *61*	
6208.7 *15*	1$^-$	5.0 fs *10*	91 *18*	
6242.7 *6*	1$^-$	2.6 fs *11*	175 *76*	
6250.7 *5*	1$^-$	5.8 fs *15*	79 *20*	
6297.9 *14*	1$^-$	10.0 fs *15*	45.8 *66*	
6315.9 *4*	1$^-$	5.1 fs *12*	91 *23*	
6336.8 *20*	1$^-$	2.1 fs *10*	69 *35*	
6342.6 *11*	1$^-$	0.28 fs *7*	144×10^1 *35*	
6387.5 *14*	1$^-$	6.7 fs *10*	68 *11*	
6449.0 *20*	1$^-$	6.1 fs *10*	75 *12*	
6497.7 *6*	1$^-$	2.2 fs *7*	210 *65*	
6532.7 *4*	1$^-$	3.05 fs *28*	150 *14*	
6551.0 *3*	1$^+$	11.0 fs *19*	41.6 *74*	
6562.9 *9*	1$^-$	7.69 fs *28*	59 *3*	
6570.4 *9*	1$^-$	4.9 fs *6*	95 *13*	
6596.2 *7*	1$^-$	5.5 fs *7*	83 *10*	
6608.5 *9*	1$^-$	6.0 fs *8*	76 *10*	
6633.2 *12*	1$^-$	1.39 fs *28*	327 *50*	
6641.3 *17*	1$^-$	5.5 fs *12*	84 *18*	
6653.7 *14*	1$^-$	3.3 fs *7*	136 *27*	
6680.0 *18*	1$^-$	6.1 fs *7*	75 *17*	
6691.5 *8*	1$^-$	10.2 fs *17*	44.7 *74*	
6700.3 *20*	1$^-$	8.2 fs *21*	56 *14*	
6709.0 *21*	1$^-$	9.1 fs *25*	51 *14*	
6736.2 *15*	1$^-$	9.1 fs *25*	50 *14*	
6743.5 *3*	1$^-$	1.11 fs *14*	401 *39*	
6749.2 *5*	1$^-$	1.32 fs *21*	532 *51*	E(level): 6751.2 listed in table I of 2013Go19 should be 6749.2.
6813.9 *20*	1$^-$	16 fs *6*	24.1 *71*	
6830.2 *15*	1$^-$	8.3 fs *18*	55 *12*	
6882.2 *14*	1$^-$	1.52 fs *28*	296 *59*	
6908.3 *20*	1$^-$	15 fs *4*	29.9 *78*	
6913.3 *17*	1$^+$	14 fs *4*	33 *11*	
6922.2 *18*	1$^-$	12.6 fs *33*	36.1 *94*	
6970.3 *5*	1$^-$	4.0 fs *9*	115 *26*	
6992.8 *5*	1$^-$	3.3 fs *5*	130 *18*	
7018.0 *18*	1$^-$	11 fs *5*	41 *17*	
7025.0 *20*	1$^+$	12 fs *4*	37 *13*	
7047.4 *15*	1$^+$	14 fs *5*	33 *11*	
7053.1 *19*	1$^-$	12.5 fs *37*	36 *11*	
7093.1 *20*	1$^-$	11.2 fs *30*	41 *11*	
7101.1 *19*	1$^-$	11.4 fs *35*	40 *12*	
7110.1 *19*	1$^+$	10.0 fs *29*	46 *13*	

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^{76}Se(pol γ,γ') 2013Go19 (continued)

^{76}Se Levels (continued)

E(level)†	Jπ‡	$T_{1/2}$#	Γ (meV)a	Comments
7114.0 *19*	1^-	2.9 fs *10*	115 *51*	
7127.7 *13*	1^-	0.80 fs *21*	57×10[1] *15*	$T_{1/2}$: mean lifetime τ=2.9 fs *2* listed in Table I of 2013Go19 should be 1.15 fs *30*.
7156.0 *17*	1^-	7.6 fs *21*	61 *17*	
7168.1 *18*	1^-	11.8 fs *35*	39 *11*	
7195.6 *14*	1^-	6.3 fs *18*	72 *21*	
7225.6 *20*	1^-	6.0 fs *15*	77 *19*	
7241.6 *7*	1^-	4.9 fs *10*	94 *19*	
7292.8 *15*	1^-	4.0 fs *10*	115 *31*	
7324.6 *18*	1^-	8.3 fs *24*	56 *16*	
7335.0 *20*	1^-	10.3 fs *33*	44 *14*	
7342.2 *14*	1^-	4.6 fs *12*	99 *26*	
7362.2 *21*	1^-	12 fs *4*	37 *12*	
7392.6 *8*	1^-	13 fs *4*	35 *11*	
7406.4 *15*	1^-	2.4 fs *12*	188 *99*	
7427.1 *14*	1^-	4.2 fs *11*	108 *28*	
7455.5 *13*	1^-	2.6 fs *6*	178 *46*	
7464.7 *18*	1^-	1.8 fs *6*	252 *88*	
7508.4 *8*	1^-	4.0 fs *5*	114 *24*	
7522.1 *7*	1^-	1.18 fs *21*	396 *71*	
7546.9 *6*	1^-	1.66 fs *14*	280 *29*	
7580.5 *16*	1^-	8.3 fs *23*	55 *16*	
7617.2 *17*	1^-	5.5 fs *11*	83 *17*	
7627.8 *15*	1^-	4.1 fs *8*	111 *20*	
7643.3 *17*	1^-	7.5 fs *19*	61 *15*	
7652.9 *17*	1^-	4.1 fs *8*	110 *22*	
7658.7 *2*	1^-	6.4 fs *10*	71 *12*	
7698.6 *9*	1^-	0.97 fs *28*	46×10[1] *14*	
7729.7 *16*	1^-	3.7 fs *8*	122 *25*	
7781.6 *18*	1^-	6.9 fs *22*	67 *22*	
7817.4 *10*	1^-	9.7 fs *35*	47 *17*	
7830.0 *9*	1^-	9.0 fs *35*	50 *20*	
7866.1 *17*	1^-	8.3 fs *27*	55 *18*	
7890.9 *18*	1^-	7.8 fs *25*	59 *19*	
7920.1 *17*	1^-	5.1 fs *16*	90 *28*	
7927.6 *17*	1^-	5.3 fs *17*	87 *27*	
7952.0 *21*	1^-	7.1 fs *24*	64 *21*	
7960.3 *18*	1^-	5.9 fs *19*	77 *24*	
7978.9 *8*	1^-	3.3 fs *8*	139 *34*	
8017.9 *23*	1^-	6.6 fs *21*	69 *23*	
8062.5 *22*	1^-	5.4 fs *17*	85 *27*	
8084.7 *26*	1^-	2.3 fs *8*	22×10[1] *10*	
8107.3 *22*	1^-	5.7 fs *17*	80 *25*	
8132.1 *22*	1^-	5.7 fs *17*	79 *24*	
8154.9 *21*	1^-	6.5 fs *19*	70 *21*	
8170.1 *22*	1^-	6.0 fs *17*	76 *22*	
8197.5 *13*	1^-	0.76 fs *14*	58×10[1] *12*	
8210.5 *20*	1^-	4.0 fs *10*	114 *29*	
8222.5 *20*	1^-	2.5 fs *6*	183 *45*	
8251.9 *23*	1^-	12 fs *5*	37 *15*	
8288.5 *23*	1^-	3.6 fs *9*	127 *32*	
8316.7 *22*	1^-	6.1 fs *21*	75 *25*	
8340.7 *10*	1^-	4.4 fs *13*	104 *31*	
8394.9 *19*	1^-	2.50 fs *35*	180 *26*	
8453.5 *21*	1^-	2.8 fs *7*	162 *60*	

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^{76}Se(pol γ,γ') 2013Go19 (continued)

^{76}Se Levels (continued)

E(level)†	Jπ‡	$T_{1/2}$#	Γ (meV)a	E(level)†	Jπ‡	$T_{1/2}$#	Γ (meV)a
8486.5 *18*	1^-	0.91 fs *23*	50×10^1 *12*	8719.5 *21*	1^-	3.0 fs *10*	154 *54*
8526.5 *5*	1^-	0.48 fs *10*	95×10^1 *21*	8770.9 *23*	1^-	1.9 fs *6*	236 *67*
8540.9 *20*	1^-	0.94 fs *17*	488 *91*	8843.8 *18*	1^-	0.83 fs *42*	56×10^1 *29*
8571.7 *19*	1^-	1.7 fs *5*	270 *71*	8864.8 *20*	1^-	2.9 fs *9*	158 *50*
8590.1 *20*	1^-	2.3 fs *8*	199 *64*	8890.8 *19*	1^-	2.1 fs *6*	209 *60*
8654.9 *19*	1^-	2.0 fs *6*	228 *68*	8918.8 *19*	1^-	2.1 fs *6*	221 *64*
8709.9 *13*	1^-	1.66 fs *28*	274 *42*	8935.6 *20*	1^-	2.6 fs *8*	178 *56*

† From a least-squares fit to γ-ray energies, unless otherwise noted.

‡ From 2013Go19, parity from measured polarization asymmetry. $J^\pi=1^+$ levels near 4 MeV are interpreted as Scissors mode excitation while those near 7 MeV are attributed to M1 spin-flip resonance excitation. All the 1^- states are interpreted as Pygmy-dipole resonances (PDR) on the low-energy tail of E1 Giant Dipole Resonance (GDR).

Deduced by 2013Go19 from level widths.

@ From Adopted Levels.

& 5297.9 and 5298.4 form a doublet with opposite parities. Energy difference in the fitted peak position is 0.7 keV *3*. Total integrated σ=66.6 eVb *42* in Darmstadt experiment (2012Co17). From the present data separate cross sections are estimated as: 53 eVb *3* for 5298.6 level and 13.7 eVb *8* for 5297.9 level. The ordering of the two levels as M1 and E1 has been double-checked by P. Goddard in e-mail reply of Jan 6, 2014.

a Values are from 2013Go19, deduced from integrated cross sections and gamma-ray branching ratios.

γ(^{76}Se)

Polarization asymmetry values POL are displayed in Fig. 2 of 2013Go19. Numerical values listed here were obtained in e-mail reply of Dec 9, 2013 from P.M. Goddard. Expected values are −0.77 *2* for negative−parity J=1 states and +0.94 *6* for positive-parity J=1 states, using the geometry stated in 2013Go19. Deviations from these values are due to detection sensitivity or peak-resolution issues, still the parities of such states are firmly assigned from the plane in which the scattered gamma rays are observed.

B(E1)↓ and B(M1)↓ values are deduced from corresponding B(E1)↑ and B(M1)↑ values listed in Table I of 2013Go19 . B(E1,M1)↓=(1/3)B(E1,M1)↑ for 1 to 0 transition, and (5/3)B(E1,M1)↑ for 1 to 2 transition. Units of B(E1) have been converted to e^2b here, consistent with those used in ENSDF database.

E_i(level)	J_i^π	E_γ†	I_γ	E_f	J_f^π	Mult.#	Comments
4055.2	1^+	4055.1 *3*		0.0	0^+	M1	B(M1)↓=0.0202 *26* POL=+0.82 *18*.
4125.5	1^+	4125.4 *10*		0.0	0^+	M1	B(M1)↓=0.0057 *23* POL=+1.64 *68*.
4218.9	1^+	3659.6 *2*	51 *6*	559.103	2^+	[M1]	B(M1)↓=0.139 *15*
		4218.8 *3*	49 *6*	0.0	0^+	M1	B(M1)↓=0.086 *10* POL=+0.99 *4*.
4535.5	1^+	3977.2 *11*	40 *9*	559.103	2^+	[M1]	B(M1)↓=0.024 *8*
		4535.4 *6*	60 *11*	0.0	0^+	M1	B(M1)↓=0.0250 *27* POL=+0.94 *12*.
4601.6	1^-	4601.5‡ *11*		0.0	0^+	E1	B(E1)↓=0.56×10^{-5} *17* POL=−0.52 *27*.
4662.9	1^-	4104.2 *5*	24 *4*	559.103	2^+	[E1]	B(E1)↓=0.28×10^{-5} *5*
		4662.7 *4*	76 *10*	0.0	0^+	E1	B(E1)↓=0.61×10^{-5} *8* POL=−0.95 *7*.
4673.7	1^+	4673.5‡ *14*		0.0	0^+	M1	B(M1)↓=0.0072 *24* POL=+1.28 *49*.
4720.7	1^-	4160.7 *4*	60 *9*	559.103	2^+	E1	B(E1)↓=0.57×10^{-5} *8* I_γ: 0.6 *9* in Table I of 2013Go19 should be 0.60 *9*.

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^{76}Se(pol γ,γ') 2013Go19 (continued)

$\gamma(^{76}Se)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	Comments
4720.7	1^-	4720.5 *7*	40 *7*	0.0	0^+	E1	B(E1)↓=0.26×10^{-5} *4* I_γ: 0.4 *7* in Table I of 2013Go19 should be 0.40 *7*. POL=−1.14 *49*.
4880.0	1^-	4879.8 *4*		0.0	0^+	E1	B(E1)↓=0.20×10^{-5} *4* POL=−0.95 *11*.
4887.1	1^-	4886.9 *3*		0.0	0^+	E1	B(E1)↓=0.14×10^{-5} *5* POL=−1.18 *20*.
4931.6	1^-	4931.4 *17*		0.0	0^+	E1	B(E1)↓=0.050×10^{-5} *17* POL=−0.48 *41*.
4984.5	1^-	4426.1 *5*	42 *8*	559.103	2^+	[E1]	B(E1)↓=0.35×10^{-5} *7*
		4984.3 *5*	58 *8*	0.0	0^+	E1	B(E1)↓=0.34×10^{-5} *5* POL=−1.12 *23*.
5001.5	1^-	5001.3[‡] *3*		0.0	0^+	E1	B(E1)↓=0.42×10^{-5} *4* POL=−0.87 *9*.
5010.5	1^-	4451.8 *3*	25 *5*	559.103	2^+	[E1]	B(E1)↓=0.33×10^{-5} *7*
		5010.3 *3*	75 *7*	0.0	0^+	E1	B(E1)↓=0.69×10^{-5} *7* POL=−1.00 *7*.
5073.9	1^-	4515.8 *3*	26 *3*	559.103	2^+	[E1]	B(E1)↓=0.50×10^{-5} *5*
		5073.7 *2*	74 *7*	0.0	0^+	E1	B(E1)↓=1.02×10^{-5} *9* POL=−0.95 *4*.
5194.7	1^-	4635.1 *3*	40 *4*	559.103	2^+	[E1]	B(E1)↓=0.78×10^{-5} *8*
		5194.5 *3*	60 *6*	0.0	0^+	E1	B(E1)↓=0.81×10^{-5} *8* POL=−0.72 *9*.
5217.8	1^-	5217.6[‡] *11*		0.0	0^+	E1	B(E1)↓=0.25×10^{-5} *5* POL=−0.62 *23*.
5297.9	$1^{(+)}$	5297.7[‡] *3*		0.0	0^+	(M1)	B(M1)↓=0.0194 *11* E_γ: from level energy with recoil correction removed. Eγ=5298.4 *2* is listed by 2013Go19, same as for 5298.6 level.
5298.6	1^-	5298.4 *2*		0.0	0^+	E1	B(E1)↓=0.82×10^{-5} *5* POL=−0.64 *4*.
5324.0	1^-	4766.9[‡] *10*	40 *6*	559.103	2^+	[E1]	B(E1)↓=0.52×10^{-5} *8*
		5323.8 *4*	60 *6*	0.0	0^+	E1	B(E1)↓=0.55×10^{-5} *8* POL=−0.88 *11*.
5346.2	1^-	4131.5 *9*	21 *4*	1216.154	2^+	[E1]	B(E1)↓=0.38×10^{-5} *7*
		4788.0 *3*	24 *4*	559.103	2^+	[E1]	B(E1)↓=0.28×10^{-5} *5*
		5346.0 *4*	55 *7*	0.0	0^+	E1	B(E1)↓=0.46×10^{-5} *6* POL=−0.54 *11*.
5375.8	1^-	4816.1 *2*	55 *6*	559.103	2^+	[E1]	B(E1)↓=1.48×10^{-5} *17*
		5375.6 *4*	45 *5*	0.0	0^+	E1	B(E1)↓=0.89×10^{-5} *10* POL=−0.55 *8*.
5405.2	1^-	5405.0[‡] *18*		0.0	0^+	E1	B(E1)↓=0.11×10^{-5} *3* E_γ: 5405 *18* in table I of 2013Go19 should be 5405.0 *18*. POL=−0.47 *18*.
5412.6	1^-	4852.0 *3*	78 *21*	559.103	2^+	[E1]	B(E1)↓=1.9×10^{-5} *5*
		5412.4 *14*	22 *8*	0.0	0^+	E1	B(E1)↓=0.39×10^{-5} *14* POL=−0.54 *17*.
5425.3	1^-	4865.9 *3*	50 *7*	559.103	2^+	[E1]	B(E1)↓=0.52×10^{-5} *7* I_γ: 0.5 *7* in Table I of 2013Go19 should be 0.50 *7*.
		5425.1 *6*	50 *7*	0.0	0^+	E1	B(E1)↓=0.38×10^{-5} *5* I_γ: 0.5 *7* in Table I of 2013Go19 should be 0.50 *7*. POL=−0.97 *22*.

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^{76}Se(pol γ,γ′) 2013Go19 (continued)

γ(^{76}Se) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	Comments
5551.8	1⁻	5551.6[‡] *15*		0.0	0⁺	E1	B(E1)↓=0.27×10^{-5} *7* POL=−0.61 *17*.
5629.8	1⁻	5629.6[‡] *15*		0.0	0⁺	E1	B(E1)↓=0.10×10^{-5} *3* POL=−0.45 *22*.
5637.7	1⁻	5637.5[‡] *15*		0.0	0⁺	E1	B(E1)↓=0.10×10^{-5} *3* POL=−0.8 *5*.
5669.2	1⁻	5669.0[‡] *15*		0.0	0⁺	E1	B(E1)↓=0.11×10^{-5} *4* POL=−0.41 *33*.
5685.5	1⁻	5685.3 *4*		0.0	0⁺	E1	B(E1)↓=0.30×10^{-5} *4* POL=−0.66 *10*.
5709.8	1⁻	5709.6 *5*		0.0	0⁺	E1	B(E1)↓=0.32×10^{-5} *4* POL=−0.72 *12*.
5740.7	1⁻	5740.5 *5*		0.0	0⁺	E1	B(E1)↓=0.41×10^{-5} *5* POL=−0.77 *10*.
5762.0	1⁻	5761.8[‡] *10*		0.0	0⁺	E1	B(E1)↓=0.14×10^{-5} *3* POL=−1.29 *30*.
5773.3	1⁻	5773.1 *10*		0.0	0⁺	E1	B(E1)↓=0.133×10^{-5} *27* POL=−1.07 *32*.
5781.2	1⁻	5781.0 *2*		0.0	0⁺	E1	B(E1)↓=0.51×10^{-5} *11* POL=−0.90 *6*.
5803.6	1⁻	5246.1 *14*	64 *16*	559.103	2⁺	[E1]	B(E1)↓=0.77×10^{-5} *18*
		5803.4 *7*	36 *9*	0.0	0⁺	E1	B(E1)↓=0.31×10^{-5} *7* POL=−0.65 *10*.
5813.9	1⁻	5813.7 *5*		0.0	0⁺	E1	B(E1)↓=0.28×10^{-5} *4* POL=−0.78 *8*.
5842.2	1⁻	5283.8 *10*	20 *6*	559.103	2⁺	[E1]	B(E1)↓=0.28×10^{-5} *8*
		5842.0 *3*	80 *9*	0.0	0⁺	E1	B(E1)↓=0.85×10^{-5} *30* POL=−0.94 *3*.
5865.3	1⁻	5865.1[‡] *7*		0.0	0⁺	E1	B(E1)↓=0.28×10^{-5} *4* POL=−0.84 *8*.
5879.6	1⁻	5879.4 *7*		0.0	0⁺	E1	B(E1)↓=0.147×10^{-5} *27* POL=−0.95 *18*.
5892.1	1⁻	5333.1 *5*	44 *8*	559.103	2⁺	[E1]	B(E1)↓=0.77×10^{-5} *18*
		5891.9 *6*	56 *9*	0.0	0⁺	E1	B(E1)↓=0.31×10^{-5} *7* POL=−0.79 *10*.
5998.7	1⁻	5435.2 *11*	59 *13*	559.103	2⁺	[E1]	B(E1)↓=0.30×10^{-5} *7*
		5998.4 *14*	41 *11*	0.0	0⁺	E1	B(E1)↓=0.16×10^{-5} *4* POL=−0.96 *44*.
6035.7	1⁻	5474.6[‡] *13*	34 *7*	559.103	2⁺	[E1]	B(E1)↓=0.35×10^{-5} *7*
		6035.4 *5*	66 *8*	0.0	0⁺	E1	B(E1)↓=0.49×10^{-5} *9* POL=−0.76 *13*.
6099.2	1⁻	5540.2 *7*	35 *6*	559.103	2⁺	[E1]	B(E1)↓=0.32×10^{-5} *5*
		6098.9 *6*	65 *10*	0.0	0⁺	E1	B(E1)↓=0.45×10^{-5} *7* POL=−0.63 *10*.
6131.5	1⁻	6131.2 *6*		0.0	0⁺	E1	B(E1)↓=0.16×10^{-5} *4* POL=−0.40 *12*.
6156.6	1⁻	6156.3[‡] *14*		0.0	0⁺	E1	B(E1)↓=0.34×10^{-5} *6* POL=−0.55 *12*.
6165.1	1⁻	6164.8[‡] *11*		0.0	0⁺	E1	B(E1)↓=0.090×10^{-5} *27* POL=−0.49 *18*.
6196.2	1⁻	6195.9[‡] *11*		0.0	0⁺	E1	B(E1)↓=0.18×10^{-5} *3* POL=−0.24 *24*.

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^{76}Se(pol γ,γ′) 2013Go19 (continued)

γ(^{76}Se) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	Comments
6208.7	1⁻	6208.4[‡] *15*		0.0	0⁺	E1	B(E1)↓=0.36×10^{-5} *7* POL=−0.84 *17*.
6242.7	1⁻	6242.4 *6*		0.0	0⁺	E1	B(E1)↓=0.7×10^{-5} *3* POL=−1.36 *47*.
6250.7	1⁻	6250.4 *5*		0.0	0⁺	E1	B(E1)↓=0.31×10^{-5} *8* POL=−1.00 *17*.
6297.9	1⁻	6297.6 *14*		0.0	0⁺	E1	B(E1)↓=0.18×10^{-5} *4* POL=−1.21 *42*.
6315.9	1⁻	6315.6 *4*		0.0	0⁺	E1	B(E1)↓=0.34×10^{-5} *9* POL=−1.15 *16*.
6336.8	1⁻	6336.5 *20*		0.0	0⁺	E1	B(E1)↓=0.26×10^{-5} *5* POL=−0.72 *15*.
6342.6	1⁻	5783.3[‡] *3*	72 *10*	559.103	2⁺	[E1]	B(E1)↓=5.6×10^{-5} *11*
		6342.3 *11*	28 *5*	0.0	0⁺	E1	B(E1)↓=1.5×10^{-5} *3* POL=−0.75 *17*.
6387.5	1⁻	6387.2 *14*		0.0	0⁺	E1	B(E1)↓=0.25×10^{-5} *5* POL=−0.59 *22*.
6449.0	1⁻	6448.7 *20*		0.0	0⁺	E1	B(E1)↓=0.27×10^{-5} *7* POL=−0.95 *39*.
6497.7	1⁻	6497.4 *6*		0.0	0⁺	E1	B(E1)↓=0.73×10^{-5} *23* POL=−0.67 *19*.
6532.7	1⁻	6532.4 *4*		0.0	0⁺	E1	B(E1)↓=0.51×10^{-5} *7* POL=−0.91 *7*.
6551.0	1⁺	6550.7 *3*		0.0	0⁺	M1	B(M1)↓=0.013 *3* POL=+0.39 *35*.
6562.9	1⁻	6562.6 *9*		0.0	0⁺	E1	B(E1)↓=0.200×10^{-5} *23* POL=−0.64 *12*.
6570.4	1⁻	6570.1 *9*		0.0	0⁺	E1	B(E1)↓=0.32×10^{-5} *6* POL=−0.72 *11*.
6596.2	1⁻	6595.9 *7*		0.0	0⁺	E1	B(E1)↓=0.28×10^{-5} *5* POL=−0.79 *12*.
6608.5	1⁻	6608.2 *9*		0.0	0⁺	E1	B(E1)↓=0.25×10^{-5} *5* POL=−0.56 *12*.
6633.2	1⁻	6071.8 *8*	28 *14*	559.103	2⁺	[E1]	B(E1)↓=0.40×10^{-5} *18*
		6632.9 *12*	71 *22*	0.0	0⁺	E1	B(E1)↓=0.77×10^{-5} *13* POL=−0.82 *5*.
6641.3	1⁻	6641.0[‡] *17*		0.0	0⁺	E1	B(E1)↓=0.27×10^{-5} *6* POL=−0.58 *12*.
6653.7	1⁻	6653.4[‡] *14*		0.0	0⁺	E1	B(E1)↓=0.44×10^{-5} *9* POL=−0.88 *9*.
6680.0	1⁻	6679.7[‡] *18*		0.0	0⁺	E1	B(E1)↓=0.24×10^{-5} *5* POL=−0.58 *14*.
6691.5	1⁻	6691.2 *8*		0.0	0⁺	E1	B(E1)↓=0.143×10^{-5} *23* POL=−0.49 *13*.
6700.3	1⁻	6700.0[‡] *20*		0.0	0⁺	E1	B(E1)↓=0.18×10^{-5} *4* POL=−0.45 *19*.
6709.0	1⁻	6708.7[‡] *21*		0.0	0⁺	E1	B(E1)↓=0.16×10^{-5} *4* POL=−0.41 *21*.
6736.2	1⁻	6735.9[‡] *15*		0.0	0⁺	E1	B(E1)↓=0.16×10^{-5} *4* POL=−0.45 *21*.
6743.5	1⁻	6182.8 *7*	23 *4*	559.103	2⁺	[E1]	B(E1)↓=0.37×10^{-5} *8*
		6743.2 *3*	77 *10*	0.0	0⁺	E1	B(E1)↓=0.96×10^{-5} *9* POL=−1.01 *7*.

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^{76}Se(pol γ,γ') 2013Go19 (continued)

$\gamma(^{76}Se)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	Comments
6749.2	1^-	6190.0 *6*	34 *9*	559.103	2^+	[E1]	B(E1)↓=0.48×10^{-5} *15*
		6748.7 *5*	66 *13*	0.0	0^+	E1	B(E1)↓=0.72×10^{-5} *9* POL=−1.02 *20*.
6813.9	1^-	6813.6[‡] *20*		0.0	0^+	E1	B(E1)↓=0.073×10^{-5} *20* POL=−0.83 *35*.
6830.2	1^-	6829.9[‡] *15*		0.0	0^+	E1	B(E1)↓=0.16×10^{-5} *4* POL=−0.58 *14*.
6882.2	1^-	6323.4 *6*	46 *16*	559.103	2^+	[E1]	B(E1)↓=0.52×10^{-5} *20*
		6881.9 *14*	54 *14*	0.0	0^+	E1	B(E1)↓=0.47×10^{-5} *8* POL=−0.74 *11*.
6908.3	1^-	6908.0[‡] *20*		0.0	0^+	E1	B(E1)↓=0.087×10^{-5} *23* POL=−0.96 *56*.
6913.3	1^+	6913.0[‡] *17*		0.0	0^+	M1	B(M1)↓=0.087 *28* E_γ: 6913 *17* in table I of 2013Go19 should be 6913.0 *17*. POL=+0.93 *35*.
6922.2	1^-	6921.9[‡] *18*		0.0	0^+	E1	B(E1)↓=0.103×10^{-5} *27* POL=−0.86 *23*.
6970.3	1^-	6970.0 *5*		0.0	0^+	E1	B(E1)↓=0.32×10^{-5} *7* POL=−0.41 *11*.
6992.8	1^-	6992.5 *5*		0.0	0^+	E1	B(E1)↓=0.37×10^{-5} *5* POL=−0.88 *9*.
7018.0	1^-	7017.7[‡] *18*		0.0	0^+	E1	B(E1)↓=0.11×10^{-5} *5* POL=−0.58 *24*.
7025.0	1^+	7024.7[‡] *20*		0.0	0^+	M1	B(M1)↓=0.093 *32* POL=+0.87 *37*.
7047.4	1^+	7047.0[‡] *15*		0.0	0^+	M1	B(M1)↓=0.082 *28* E_γ: 7047 *15* in table I of 2013Go19 should be 7047.0 *15*. POL=+0.51 *32*.
7053.1	1^-	7052.7[‡] *19*		0.0	0^+	E1	B(E1)↓=0.10×10^{-5} *3* POL=−0.71 *19*.
7093.1	1^-	7092.7[‡] *20*		0.0	0^+	E1	B(E1)↓=0.11×10^{-5} *3* POL=−0.35 *18*.
7101.1	1^-	7100.7[‡] *19*		0.0	0^+	E1	B(E1)↓=0.11×10^{-5} *3* POL=−0.81 *22*.
7110.1	1^+	7109.7[‡] *19*		0.0	0^+	M1	B(M1)↓=0.011 *3* POL=+0.31 *19*.
7114.0	1^-	6557.2[‡] *16*	51 *19*	559.103	2^+	[E1]	B(E1)↓=0.22×10^{-5} *10*
		7113.6[‡] *19*	49 *18*	0.0	0^+	E1	B(E1)↓=0.20×10^{-5} *8* POL=−0.58 *37*.
7127.7	1^-	6570.6[‡] *19*	23 *17*	559.103	2^+	[E1]	B(E1)↓=0.43×10^{-5} *33*
		7127.3[‡] *13*	77 *23*	0.0	0^+	E1	B(E1)↓=1.17×10^{-5} *47* POL=−0.89 *7*.
7156.0	1^-	7155.6[‡] *17*		0.0	0^+	E1	B(E1)↓=0.16×10^{-5} *4* POL=−0.51 *15*.
7168.1	1^-	7167.7[‡] *18*		0.0	0^+	E1	B(E1)↓=0.10×10^{-5} *3* POL=−0.27 *18*.
7195.6	1^-	7195.2[‡] *14*		0.0	0^+	E1	B(E1)↓=0.19×10^{-5} *5* POL=−0.79 *16*.
7225.6	1^-	7225.2[‡] *20*		0.0	0^+	E1	B(E1)↓=0.19×10^{-5} *5* POL=−0.92 *20*.

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^{76}Se(pol γ,γ') 2013Go19 (continued)

$\gamma(^{76}Se)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	Comments
7241.6	1^-	7241.2 *7*		0.0	0^+	E1	B(E1)↓=0.24×10^{-5} *5* POL=−0.84 *8*.
7292.8	1^-	7292.4[‡] *15*		0.0	0^+	E1	B(E1)↓=0.28×10^{-5} *8* POL=−0.84 *9*.
7324.6	1^-	7324.2[‡] *18*		0.0	0^+	E1	B(E1)↓=0.14×10^{-5} *4* POL=−0.62 *15*.
7335.0	1^-	7334.6[‡] *20*		0.0	0^+	E1	B(E1)↓=0.11×10^{-5} *3* POL=−0.73 *18*.
7342.2	1^-	7341.8[‡] *14*		0.0	0^+	E1	B(E1)↓=0.24×10^{-5} *6* POL=−0.79 *10*.
7362.2	1^-	7361.8[‡] *21*		0.0	0^+	E1	B(E1)↓=0.09×10^{-5} *3* POL=−0.66 *23*.
7392.6	1^-	7392.2[‡] *8*		0.0	0^+	E1	B(E1)↓=0.083×10^{-5} *27* POL=−0.33 *18*.
7406.4	1^-	6846.0[‡] *17*	31 *20*	559.103	2^+	[E1]	B(E1)↓=0.13×10^{-5} *12*
		7406.0[‡] *15*	69 *26*	0.0	0^+	E1	B(E1)↓=0.31×10^{-5} *20* POL=−0.86 *8*.
7427.1	1^-	7426.7[‡] *14*		0.0	0^+	E1	B(E1)↓=0.25×10^{-5} *7* POL=−0.84 *9*.
7455.5	1^-	7455.1 *13*		0.0	0^+	E1	B(E1)↓=0.41×10^{-5} *11* POL=−1.04 *7*.
7464.7	1^-	6905.8[‡] *21*	45 *19*	559.103	2^+	[E1]	B(E1)↓=0.33×10^{-5} *15*
		7464.3[‡] *18*	55 *20*	0.0	0^+	E1	B(E1)↓=0.32×10^{-5} *14* POL=−0.82 *14*.
7508.4	1^-	7508.0 *8*		0.0	0^+	E1	B(E1)↓=0.26×10^{-5} *3* POL=−1.12 *22*.
7522.1	1^-	6963.9 *7*	36 *11*	559.103	2^+	[E1]	B(E1)↓=0.40×10^{-5} *13*
		7521.7 *7*	64 *16*	0.0	0^+	E1	B(E1)↓=0.57×10^{-5} *10* POL=−0.89 *13*.
7546.9	1^-	7546.5 *6*		0.0	0^+	E1	B(E1)↓=0.62×10^{-5} *6* POL=−0.91 *10*.
7580.5	1^-	7580.1[‡] *16*		0.0	0^+	E1	B(E1)↓=0.12×10^{-5} *3* POL=−0.76 *18*.
7617.2	1^-	7616.8[‡] *17*		0.0	0^+	E1	B(E1)↓=0.18×10^{-5} *4* POL=−0.56 *15*.
7627.8	1^-	7627.4[‡] *15*		0.0	0^+	E1	B(E1)↓=0.24×10^{-5} *4* POL=−0.71 *10*.
7643.3	1^-	7642.9[‡] *17*		0.0	0^+	E1	B(E1)↓=0.13×10^{-5} *3* POL=−0.36 *14*.
7652.9	1^-	7652.5[‡] *17*		0.0	0^+	E1	B(E1)↓=0.24×10^{-5} *5* POL=−0.73 *9*.
7658.7	1^-	7658.3 *2*		0.0	0^+	E1	B(E1)↓=0.150×10^{-5} *23* POL=−0.53 *21*.
7698.6	1^-	7137.0[‡] *20*	35 *14*	559.103	2^+	[E1]	B(E1)↓=0.43×10^{-5} *17*
		7698.2 *9*	65 *16*	0.0	0^+	E1	B(E1)↓=0.62×10^{-5} *23* POL=−0.77 *8*.
7729.7	1^-	7729.3[‡] *16*		0.0	0^+	E1	B(E1)↓=0.25×10^{-5} *5* POL=−0.62 *14*.
7781.6	1^-	7781.2[‡] *18*		0.0	0^+	E1	B(E1)↓=0.14×10^{-5} *4* POL=−0.69 *19*.

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^{76}Se(pol γ,γ′) 2013Go19 (continued)

γ(^{76}Se) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	Comments
7817.4	1⁻	7817.1[‡] *10*		0.0	0⁺	E1	B(E1)↓=0.093×10^{-5} *33* POL=−0.41 *19*.
7830.0	1⁻	7829.6[‡] *9*		0.0	0⁺	E1	B(E1)↓=0.100×10^{-5} *33* POL=−0.90 *22*.
7866.1	1⁻	7865.7[‡] *17*		0.0	0⁺	E1	B(E1)↓=0.107×10^{-5} *33* POL=−0.36 *14*.
7890.9	1⁻	7890.5[‡] *18*		0.0	0⁺	E1	B(E1)↓=0.11×10^{-5} *4* POL=−0.77 *16*.
7920.1	1⁻	7919.7[‡] *17*		0.0	0⁺	E1	B(E1)↓=0.17×10^{-5} *5* POL=−0.54 *11*.
7927.6	1⁻	7927.2[‡] *17*		0.0	0⁺	E1	B(E1)↓=0.17×10^{-5} *5* POL=−0.63 *11*.
7952.0	1⁻	7951.6[‡] *21*		0.0	0⁺	E1	B(E1)↓=0.12×10^{-5} *4* POL=−0.45 *15*.
7960.3	1⁻	7959.9[‡] *18*		0.0	0⁺	E1	B(E1)↓=0.15×10^{-5} *5* POL=−0.43 *12*.
7978.9	1⁻	7978.5 *8*		0.0	0⁺	E1	B(E1)↓=0.26×10^{-5} *6* POL=−0.70 *8*.
8017.9	1⁻	8017.4[‡] *23*		0.0	0⁺	E1	B(E1)↓=0.13×10^{-5} *4* POL=−0.36 *15*.
8062.5	1⁻	8062.0[‡] *22*		0.0	0⁺	E1	B(E1)↓=0.15×10^{-5} *5* POL=−0.50 *21*.
8084.7	1⁻	7521.3[‡] *25*	54 *26*	559.103	2⁺	[E1]	B(E1)↓=0.27×10^{-5} *15*
		8084.2[‡] *26*	46 *25*	0.0	0⁺	E1	B(E1)↓=0.19×10^{-5} *10* POL=−0.28 *28*.
8107.3	1⁻	8106.8[‡] *22*		0.0	0⁺	E1	B(E1)↓=0.14×10^{-5} *4* POL=−0.52 *21*.
8132.1	1⁻	8131.6[‡] *22*		0.0	0⁺	E1	B(E1)↓=0.14×10^{-5} *4* POL=−0.61 *21*.
8154.9	1⁻	8154.4[‡] *21*		0.0	0⁺	E1	B(E1)↓=0.123×10^{-5} *37* POL=−0.77 *18*.
8170.1	1⁻	8169.6[‡] *22*		0.0	0⁺	E1	B(E1)↓=0.133×10^{-5} *37* POL=−0.58 *18*.
8197.5	1⁻	6982.8 *15*	48 *16*	1216.154	2⁺	[E1]	B(E1)↓=0.78×10^{-5} *30*
		8196.5 *13*	52 *14*	0.0	0⁺	E1	B(E1)↓=0.52×10^{-5} *9* POL=−0.62 *10*.
8210.5	1⁻	8210.0[‡] *20*		0.0	0⁺	E1	B(E1)↓=0.26×10^{-5} *6* POL=−0.85 *17*.
8222.5	1⁻	8222.0[‡] *20*		0.0	0⁺	E1	B(E1)↓=0.30×10^{-5} *7* POL=−0.78 *20*.
8251.9	1⁻	8251.4[‡] *23*		0.0	0⁺	E1	B(E1)↓=0.063×10^{-5} *27* POL=−0.27 *20*.
8288.5	1⁻	8288.0[‡] *23*		0.0	0⁺	E1	B(E1)↓=0.21×10^{-5} *5* POL=−0.88 *11*.
8316.7	1⁻	8316.2[‡] *22*		0.0	0⁺	E1	B(E1)↓=0.123×10^{-5} *33* POL=−0.51 *17*.
8340.7	1⁻	8340.2[‡] *10*		0.0	0⁺	E1	B(E1)↓=0.17×10^{-5} *5* POL=−0.81 *17*.
8394.9	1⁻	8394.4 *19*		0.0	0⁺	E1	B(E1)↓=0.29×10^{-5} *4* POL=−0.65 *13*.

Continued on next page (footnotes at end of table)

^{76}Se(pol γ,γ′) 2013Go19 (continued)

γ(^{76}Se) (continued)

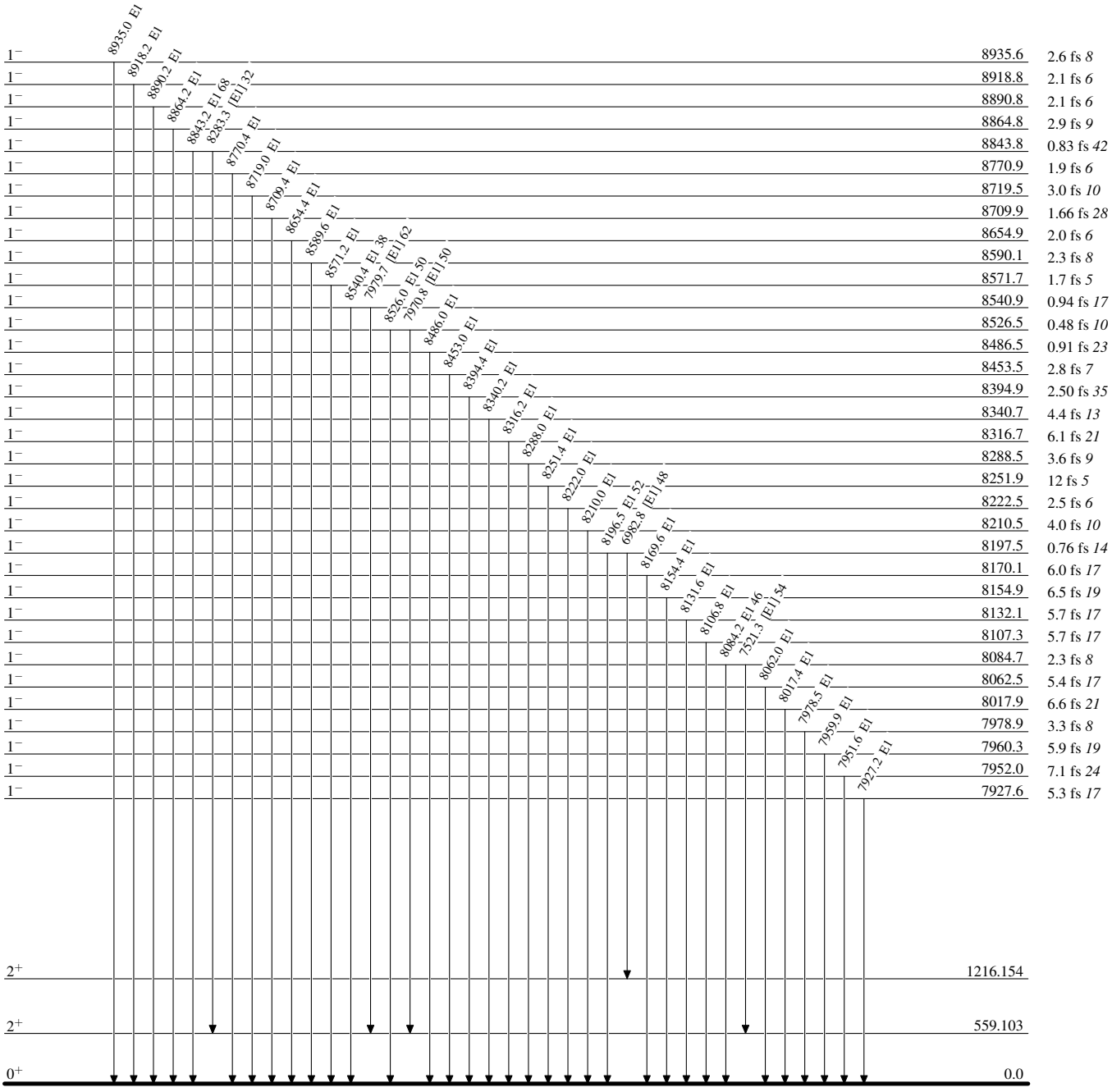
E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π	Mult.#	Comments
8453.5	1⁻	8453.0‡ *21*		0.0	0⁺	E1	B(E1)↓=0.090×10^{-5} *33* POL=−0.62 *28*.
8486.5	1⁻	8486.0‡ *18*		0.0	0⁺	E1	B(E1)↓=0.28×10^{-5} *7* POL=−0.92 *14*.
8526.5	1⁻	7970.8 *6*	50 *15*	559.103	2⁺	[E1]	B(E1)↓=0.90×10^{-5} *33* E_γ: poor fit. Level-energy difference=7967.5.
		8526.0 *5*	50 *12*	0.0	0⁺	E1	B(E1)↓=0.73×10^{-5} *12* POL=−0.84 *11*.
8540.9	1⁻	7979.7‡ *13*	62 *18*	559.103	2⁺	[E1]	B(E1)↓=0.53×10^{-5} *27*
		8540.4‡ *20*	38 *15*	0.0	0⁺	E1	B(E1)↓=0.28×10^{-5} *16* POL=−0.59 *23*.
8571.7	1⁻	8571.2‡ *19*		0.0	0⁺	E1	B(E1)↓=0.15×10^{-5} *4* POL=−0.88 *19*.
8590.1	1⁻	8589.6‡ *20*		0.0	0⁺	E1	B(E1)↓=0.113×10^{-5} *37* POL=−0.48 *22*.
8654.9	1⁻	8654.4‡ *19*		0.0	0⁺	E1	B(E1)↓=0.173×10^{-5} *37* POL=−0.43 *20*.
8709.9	1⁻	8709.4 *13*		0.0	0⁺	E1	B(E1)↓=0.40×10^{-5} *6* POL=−0.61 *11*.
8719.5	1⁻	8719.0‡ *21*		0.0	0⁺	E1	B(E1)↓=0.22×10^{-5} *8* POL=−0.61 *18*.
8770.9	1⁻	8770.4‡ *23*		0.0	0⁺	E1	B(E1)↓=0.33×10^{-5} *10* POL=−0.67 *14*.
8843.8	1⁻	8283.3‡ *20*	32 *20*	559.103	2⁺	[E1]	B(E1)↓=0.30×10^{-5} *17*
		8843.2‡ *18*	68 *26*	0.0	0⁺	E1	B(E1)↓=0.53×10^{-5} *3* POL=−0.60 *11*.
8864.8	1⁻	8864.2‡ *20*		0.0	0⁺	E1	B(E1)↓=0.22×10^{-5} *7* POL=−0.55 *16*.
8890.8	1⁻	8890.2‡ *19*		0.0	0⁺	E1	B(E1)↓=0.28×10^{-5} *8* POL=−0.50 *12*.
8918.8	1⁻	8918.2‡ *19*		0.0	0⁺	E1	B(E1)↓=0.30×10^{-5} *9* POL=−0.75 *17*.
8935.6	1⁻	8935.0‡ *20*		0.0	0⁺	E1	B(E1)↓=0.24×10^{-5} *8* POL=−0.71 *16*.

† From Darmstadt High Intensity Photon setup (DHIPS) (2012Co17), unless otherwise indicated.
‡ From TUNL HIγS, experimental data in 2013Go19.
# Implied by polarization asymmetries measured in 2013Go19. When no polarization data are available, evaluators assign assumed multipolarity in square brackets.

^{76}Se(pol γ,γ') 2013Go19

Level Scheme

Intensities: % photon branching from each level

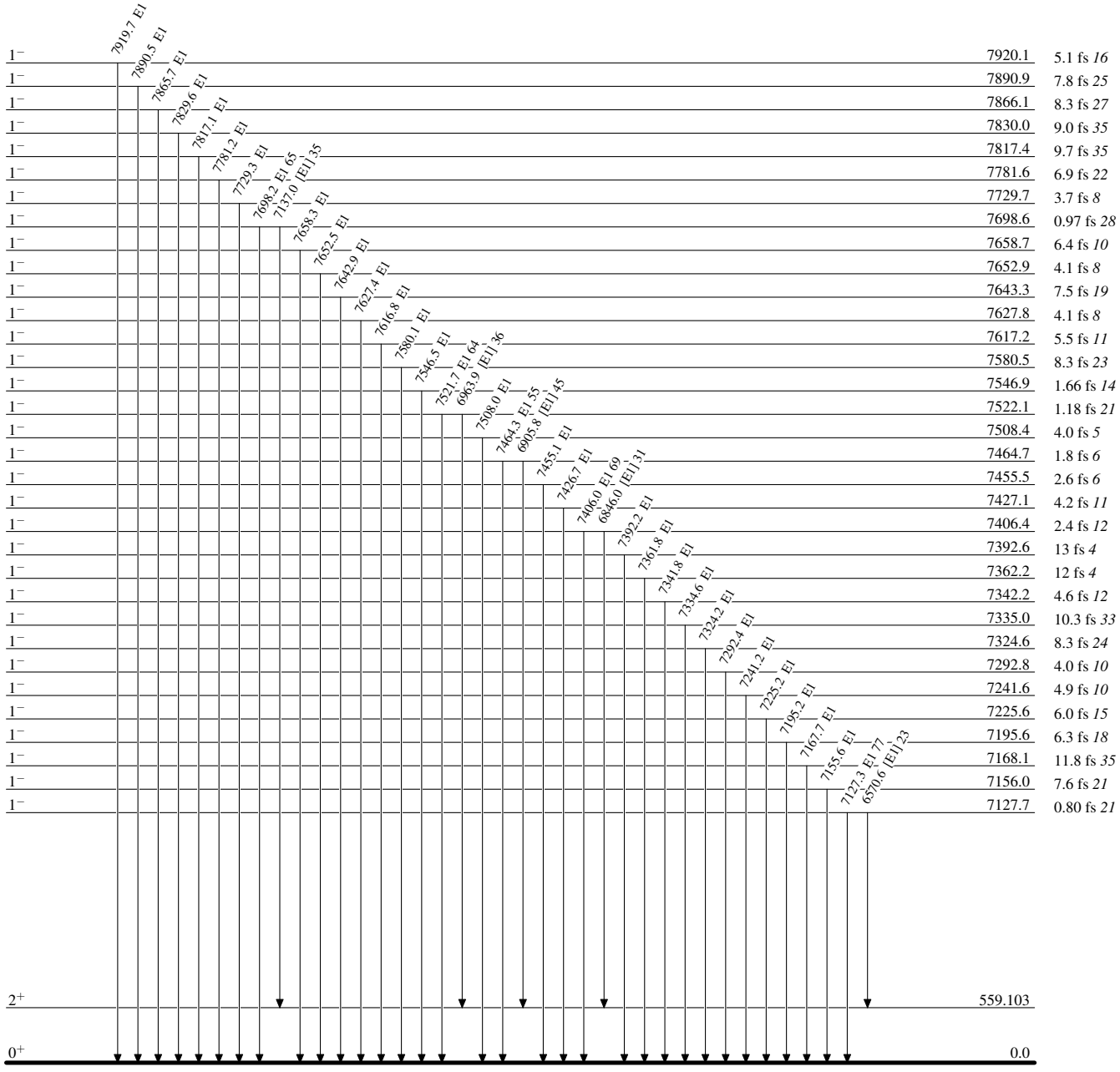


$^{76}_{34}Se_{42}$

^{76}Se(pol γ,γ') 2013Go19

Level Scheme (continued)

Intensities: % photon branching from each level

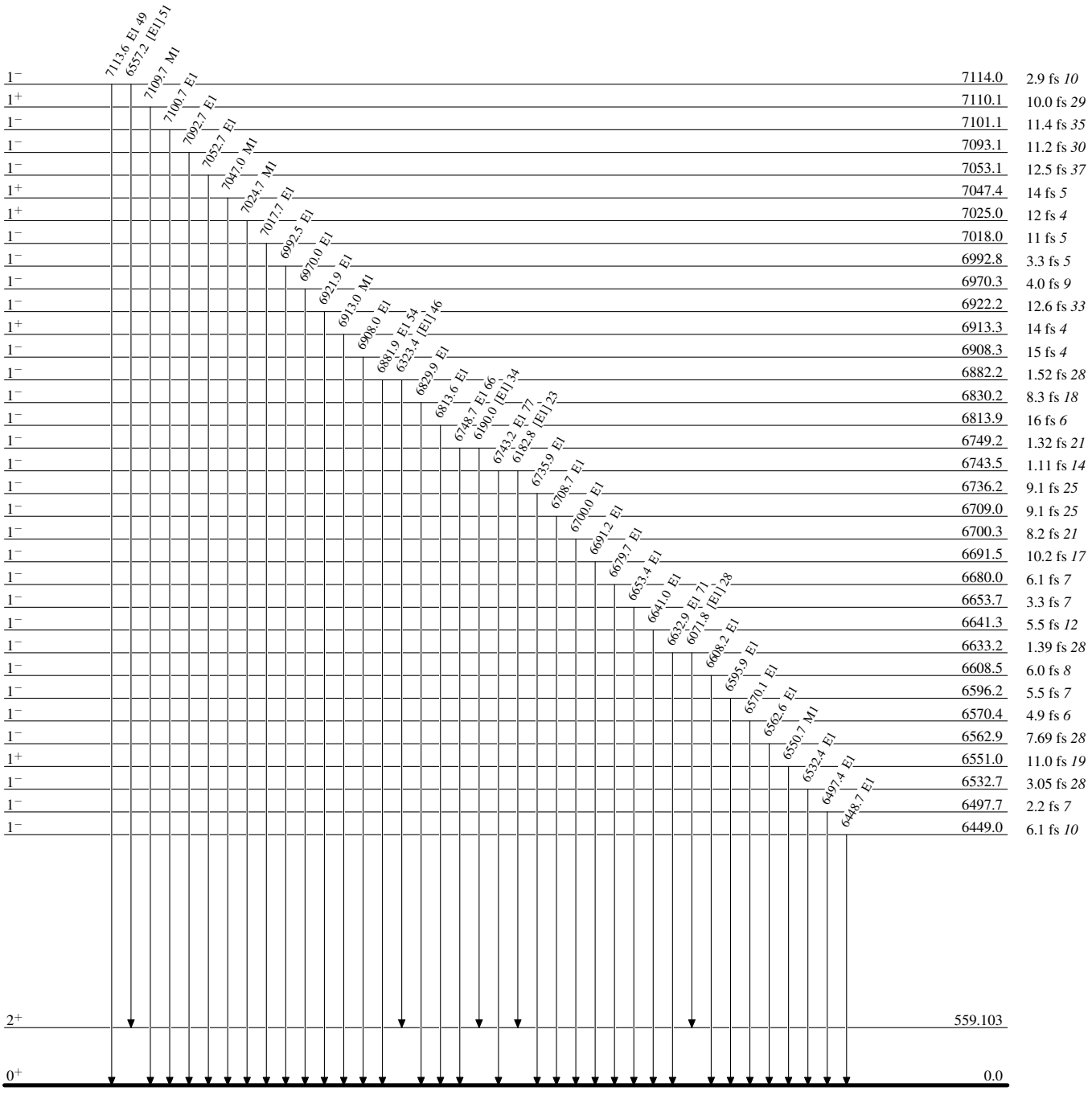


$^{76}_{34}Se_{42}$

^{76}Se(pol γ,γ') 2013Go19

Level Scheme (continued)

Intensities: % photon branching from each level

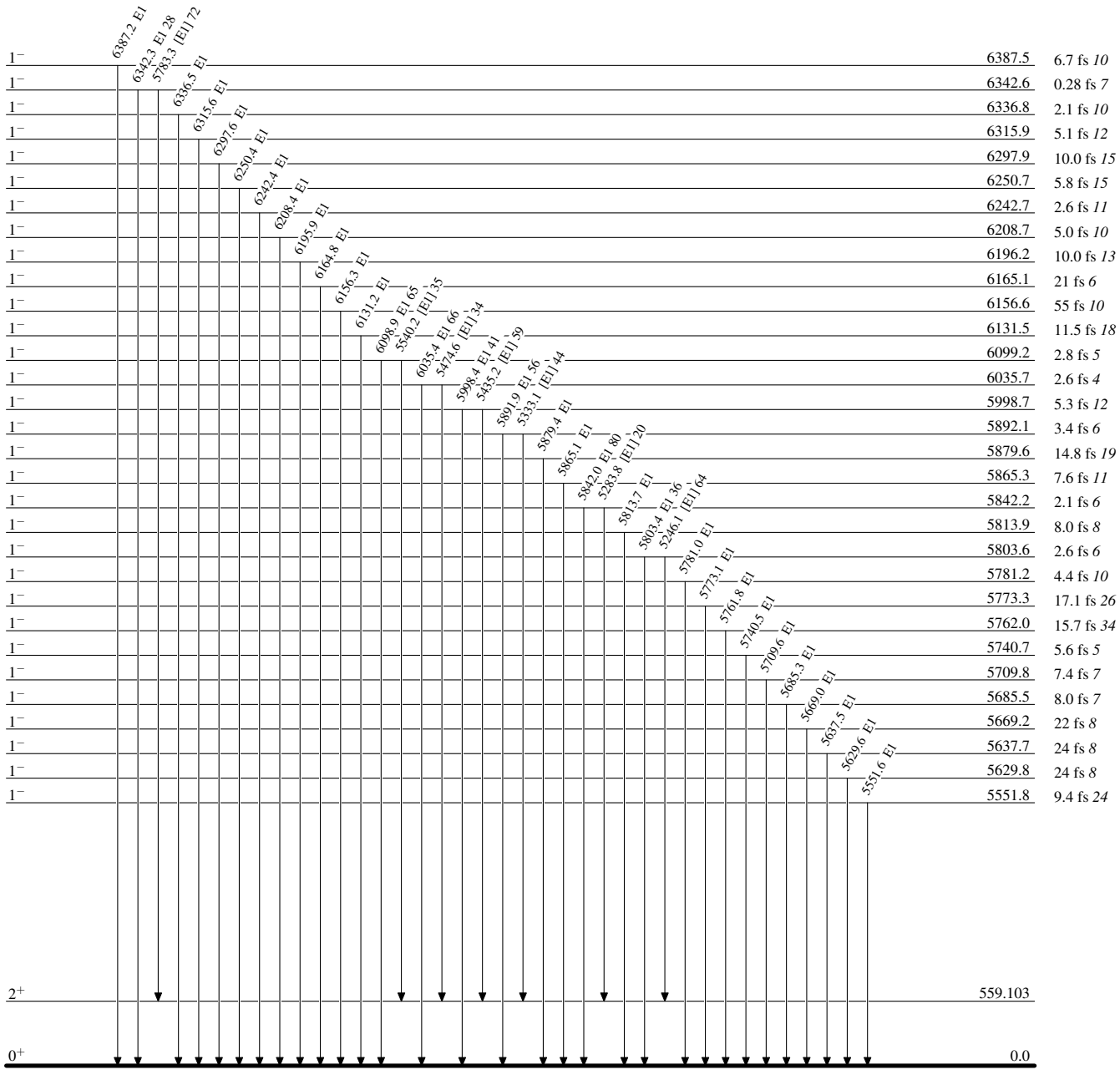


$^{76}_{34}Se_{42}$

^{76}Se(pol γ,γ') 2013Go19

Level Scheme (continued)

Intensities: % photon branching from each level

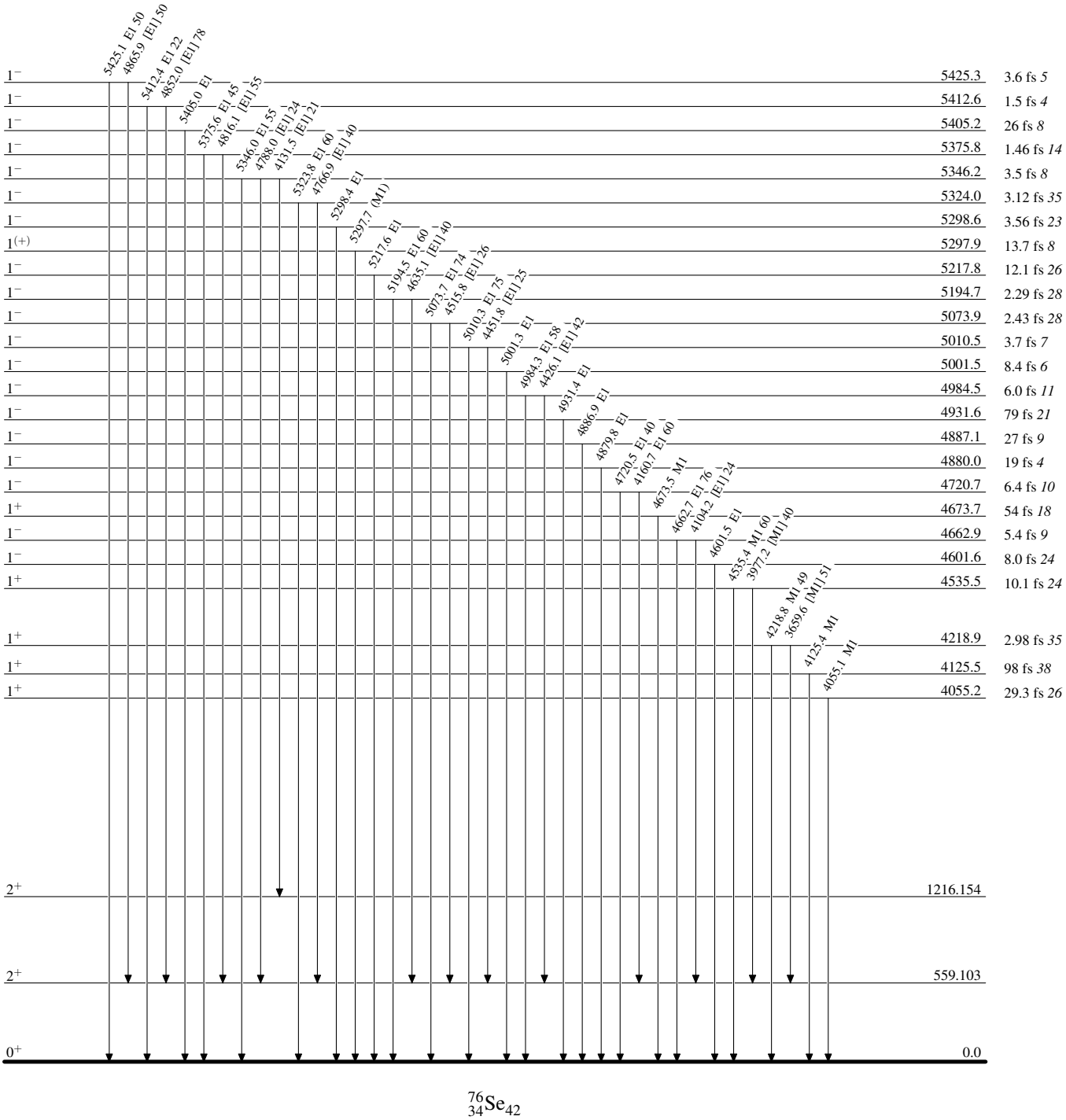


$^{76}_{34}Se_{42}$

^{76}Se(pol γ,γ') 2013Go19

Level Scheme (continued)

Intensities: % photon branching from each level



$^{76}_{34}Se_{42}$