^{76}Ge(γ,γ') 2022Sc03,1995Ju01

History

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

Also include (pol γ,γ') from 1995Ju01.

2022Sc03: nuclear resonance fluorescence (NRF) experiment was performed at the bremsstrahlung ELBE facility of Helmholtz-Zentrum Dresden-Rossendorf (HZDR) using photon beam up to an endpoint of 9.4 MeV. Target of was 1.8760 g of 99.5% enriched ^{76}Ge. Measured Eγ, Iγ, angular distributions at 90 and 127° with respect to the beam direction using four HPGe detectors, each with BGO escape-suppressed shields. In the analysis, average γ branching ratios of the ground-state transitions were estimated from simulation of statistical γ cascades using the code γDEX. Deduced energy-integrated cross sections, and photon strength functions (γSF), the latter compared with previous experimental results.

1995Ju01: E=9-14 MeV partially linearly polarized and unpolarized bremsstrahlung from Giessen LINC facility, and E<4 MeV unpolarized bremsstrahlung from Stuttgart dynamitron. Measured Eγ, Iγ, $\gamma\gamma(\theta)$, integrated σ. Deduced levels, J, π, B(E1), B(M1).

^{76}Ge Levels

Γ_0^2/Γ, B(M1) and B(E1) data under comments are from 1995Ju01. Γ_0=ground−state decay width, Γ_f=decay width to the final state, Γ=total width. For elastic scattering $\Gamma_f=\Gamma_0$. Γ_0^2/Γ data at 10 MeV were not corrected for a substantial feeding from high-lying levels.

E(level)[†]	J$^\pi$[‡]	Γ[a]	I$_s$ (eVb)[&]	Comments
0.0	0$^+$			
564.5 *1*	2$^+$[#]			
1109.2 *1*	2$^+$[#]			
2504.2 *4*	2$^+$[#]			
2655.1 *3*	(1)		5.6 *10*	
2919.8 *2*	1[@]	0.0015 eV *6*	12.1 *12*	B(M1)↑=0.02; B(E1)↑=0.18×10^{-5} I$_s$ (eVb): other: 2.1 *8* from 1995Ju01. Γ_0^2/Γ=0.0015 eV *6*. Note there are other transitions from this level in Adopted dataset.
3006.7 *2*	1$^+$[#]		9.6 *10*	
3014.2 *4*	1[@]	0.0016 eV *2*	2.0 *3*	B(M1)↑=0.02; B(E1)↑=0.17×10^{-5} E(level),I$_s$ (eVb): from 1995Ju01. Γ_0^2/Γ=0.0016 eV *2*.
3088.4 *7*	1[@]	0.0017 eV *5*	2.1 *6*	B(M1)↑=0.02; B(E1)↑=0.17×10^{-5} E(level),I$_s$ (eVb): from 1995Ju01. Γ_0^2/Γ=0.0017 eV *5*.
3140.9 *2*	1[@]		12.0 *12*	B(M1)↑=0.05; B(E1)↑=0.53×10^{-5} I$_s$ (eVb): other: 4.4 *4* from 1995Ju01. Γ_0^2/Γ=0.0038 eV *4*. Γ_f=0.0058 eV *5*.
3200.0 *2*			9.7 *11*	
3418.9 *1*	1$^+$[@]		46 *4*	B(M1)↑=0.44 *2* Γ_0^2/Γ=0.0466 eV *23* at 4 MeV, 0.088 eV *10* at 10 MeV. Γ_f=0.068 eV *3*. I$_s$ (eVb): other: 46.0 *23* from 1995Ju01.
3596.8 *4*	2$^+$[@]		2.8 *7*	Γ_0^2/Γ=0.0019 eV *4*. Γ_f=0.0071 eV *13*. E(level),I$_s$ (eVb): from 1995Ju01.
3680.4 *1*	1$^-$[@]		52 *4*	B(E1)↑=4.8×10^{-5} *3* I$_s$ (eVb): other: 58.6 *33* from 1995Ju01. Γ_0^2/Γ=0.069 eV *4* at 4 MeV, 0.090 eV *8* at 10 MeV. Γ_f=0.083 eV *5*.
3763.2 *1*	1$^+$[@]		25.8 *24*	B(M1)↑=0.33 *3*

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^{76}Ge(γ,γ') 2022Sc03,1995Ju01 (continued)

^{76}Ge Levels (continued)

E(level)[†]	Jπ[‡]	Γ[a]	I_s (eVb)[&]	Comments
				I_s (eVb): other: 29.4 *26* from 1995Ju01.
				Γ_0^2/Γ=0.036 eV *3* at 4 MeV, 0.058 eV *16* at 10 MeV. Γ_f=0.069 eV *6*.
3951.0 *4*			4.5 *7*	
4024.0 *2*	1(−)@	0.0055 eV *11*	6.2 *8*	B(E1)↑=0.24×10^{-5} *4*
				I_s (eVb): other: 3.8 *14* (1995Ju01).
				Γ_0^2/Γ=0.0055 eV *11* at 4 MeV, 0.030 eV *5* at 10 MeV.
4035.0 *2*	1@	0.0053 eV *20*	9.1 *10*	B(M1)↑=0.02; B(E1)↑=0.23×10^{-5}
				I_s (eVb): other: 3.8 *14* from 1995Ju01.
				Γ_0^2/Γ=0.0053 eV *20* at 4 MeV, 0.032 eV *4* at 10 MeV.
4115.9 *2*	1		14.7 *16*	
4250.8 *3*	1		6.7 *11*	
4331.3 *12*	1@	0.050 eV *10*	31 *6*	E(level),I_s (eVb): from 1995Ju01.
				Γ_0^2/Γ=0.050 eV *10*.
4624.0 *2*	1+@		26.9 *24*	B(M1)↑>0.27
				E(level): observed feeding is ambiguous.
				I_s (eVb): other: 55 *9* (1995Ju01).
				Γ_0^2/Γ=0.101 eV *16*. Γ_f>0.101 eV.
4661.0 *4*	1		6.4 *10*	
4678.1 *1*	1		33.0 *28*	
4722.2 *2*	(1)		9.6 *12*	
4741.0 *2*			10.3 *12*	
4788.9 *3*			7.1 *11*	
4837.0 *4*	(1)		7.3 *12*	
4845.9 *3*	1		10.9 *13*	
4874.5 *2*			8.7 *13*	
4916.5 *1*	1		50 *4*	B(M1)↑>0.27
				E(level): level fed by inelastic transitions.
				I_s (eVb): other: 53 *5* (1995Ju01).
				Γ_0^2/Γ<0.111 eV. Γ_f<0.111 eV.
4935.9 *2*	1		19.5 *18*	
5116.4 *2*	1		17.3 *18*	
5166.7 *2*	(1)		17.3 *16*	
5185.8 *1*	(1)		38 *3*	
5202.3 *2*	1		22.3 *20*	
5222.0 *3*			13.3 *16*	
5266.8 *3*	1		11.6 *16*	
5273.6 *6*	(1)		5.0 *10*	
5284.9 *2*	1		13.1 *15*	
5304.1 *3*	1		10.2 *13*	
5365.6 *3*	1		10.1 *13*	
5379.5 *4*	1		6.2 *10*	
5390.6 *5*	(1)		5.4 *10*	
5418.6 *4*	(1)		5.4 *10*	
5434.3 *3*	1		7.9 *11*	
5492.7 *2*	1		21.3 *25*	
5540.1 *2*	1	0.103 eV *18*	31.6 *27*	I_s (eVb): other: 39 *7* (1995Ju01).
				Γ_0^2/Γ=0.103 eV *18*.
5567.4 *2*	(1)		20.6 *19*	
5581.0 *2*	1		16.0 *16*	I_s (eVb): other: 43 *9* (1995Ju01).
				Γ_0^2/Γ=0.117 eV *23*. Γ_f=0.48 eV *14*.
5626.7 *8*	1@	0.133 eV *20*	49 *7*	Γ_0^2/Γ=0.133 eV *20*.
				E(level),I_s (eVb): from 1995Ju01.
5665.2 *3*	1		20.8 *24*	
5677.6 *3*	1		23.5 *26*	

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^{76}Ge(γ,γ') 2022Sc03,1995Ju01 (continued)

^{76}Ge Levels (continued)

E(level)†	Jπ‡	Γa	I_s (eVb)&	Comments
5698.8 *2*	1−@	0.256 eV *22*	52 *5*	B(E1)↑=4.0×10^{-5} *3* I_s (eVb): other: 91 *8* from 1995Ju01. Γ_0^2/Γ=0.256 eV *22*.
5708.4 *6*	(1)		8.3 *14*	
5748.3 *1*	1−@	0.166 eV *24*	67 *5*	B(E1)↑=2.5×10^{-5} *4* I_s (eVb): other: 58 *8* from 1995Ju01. Γ_0^2/Γ=0.166 eV *24*.
5785.0 *2*	1		52 *4*	
5794.1 *2*	1		26.5 *25*	
5820.8 *6*			22 *5*	
5825.3 *8*	1		12 *3*	
5846.5 *7*			8.8 *21*	
5864.8 *6*			10.8 *22*	
5908.8 *3*			8.1 *13*	
5954.8 *2*	1	0.194 eV *23*	41 *3*	I_s (eVb): other: 63 *7* from from 1995Ju01. Γ_0^2/Γ=0.194 eV *23*.
5983.0 *2*	1−@	0.150 eV *20*	49 *4*	B(E1)↑=2.0×10^{-5} *3* I_s (eVb): other: 48 *7* from 1995Ju01. Γ_0^2/Γ=0.150 eV *20*.
6048.4 *4*	1		7.8 *13*	
6081.4 *4*	(1)		12.4 *17*	
6102.0 *9*			5.3 *12*	
6113.6 *3*	1		21.1 *22*	
6130.3 *2*	1		30.9 *29*	
6145.6 *2*	1		24.2 *25*	
6162.4 *9*			4.5 *14*	
6191.3 *2*	1		41 *4*	
6223.4 *7*			6.0 *14*	
6228.2 *4*	1		14.5 *20*	
6234.8 *9*			4.6 *12*	
6240.7 *3*	1		13.3 *18*	
6272.7 *3*	1		24.0 *25*	
6285.3 *2*	1		46 *4*	
6315.4 *4*	1		21.5 *26*	
6330.2 *2*	1		63 *5*	
6366.2 *11*			8.7 *21*	
6393.2 *5*	1		15.5 *26*	
6408.1 *5*	1		17 *3*	
6436.1 *9*			12.0 *28*	
6448.3 *11*			8.2 *23*	
6472.2 *3*	1		41 *4*	
6497.9 *3*	1		18.7 *27*	
6513.3 *4*	1		31 *4*	
6572.0 *6*			11.8 *18*	
6601.2 *2*	1		53 *5*	
6611.1 *6*			13.0 *19*	
6629.0 *3*	1		27.0 *28*	
6641.9 *5*			16.5 *21*	
6661.4 *9*			9.6 *19*	
6670.6 *3*	1		33 *3*	
6741.6 *6*	(1)		11.4 *19*	
6764.8 *4*	1		20.4 *24*	
6786.7 *2*	1		59 *5*	
6816.5 *3*	1		44 *4*	
6835.5 *2*	1		82 *7*	

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^{76}Ge(γ,γ') 2022Sc03,1995Ju01 (continued)

^{76}Ge Levels (continued)

E(level)[†]	Jπ[‡]	Γ[a]	I_s (eVb)[&]	Comments
6846.2 *3*	1		44 *4*	
6880.3 *4*	1		46 *5*	
6884.2 *10*			18 *2*	
6898.9 *5*	1		41 *6*	
6908.0 *18*			19 *5*	
6938.6 *7*	1		15.1 *27*	
6959.9 *3*	1		45 *5*	
6985.1 *5*	1		26 *3*	
6998.7 *3*	1^{-}[@]	0.28 eV *4*	79 *7*	B(E1)↑=2.3×10^{-5} *3* I_s (eVb): other: 65 *9* from 1995Ju01. Γ_0^2/Γ=0.28 eV *4*.
7011.0 *9*	1		12.3 *25*	
7025.8 *3*	$1^{(-)}$[@]	0.39 eV *4*	51 *5*	B(E1)↑=3.2×10^{-5} *3* I_s (eVb): other: 90 *9* from 1995Ju01. Γ_0^2/Γ=0.39 eV *4*.
7047.9 *9*	1		10.4 *26*	
7081.2 *9*	1		9.0 *22*	
7091.4 *4*	1		28 *3*	
7102.4 *6*	1		13.8 *24*	
7121.3 *3*	1		42 *4*	
7130.1 *3*	1		36 *4*	
7147.3 *4*	1		23 *3*	
7171.6 *9*			10.8 *26*	
7250.5 *2*	1^{-}[@]		76 *7*	B(E1)↑=5.8×10^{-5} *12* I_s (eVb): other: 92 *13* from 1995Ju01. Γ_0^2/Γ=0.42 eV *6*. Γ_f=0.77 eV *15*.
7289.7 *4*			51 *5*	
7300.7 *3*	1^{-}[@]		56 *5*	B(E1)↑=6.6×10^{-5} *8* I_s (eVb): other: 126 *14* from 1995Ju01. Γ_0^2/Γ=0.58 eV *6*. Γ_f=0.90 eV *12*.
7406.7 *3*	1		60 *6*	
7415.6 *4*			37 *5*	
7452.2 *5*			24 *4*	
7478.6 *5*			21 *3*	
7485.0 *3*	1		33 *4*	
7521.2 *5*	1		26 *4*	
7536.6 *4*	(1)		30 *4*	
7548.8 *7*	(1)		19 *4*	
7584.6 *4*	1		46 *5*	
7642.6 *4*	1		69 *7*	
7650.8 *4*	1		58 *6*	
7677.7 *4*	1		44 *5*	
7694.0 *3*	1	0.30 eV *5*	59 *7*	I_s (eVb): other: 57 *11* from 1995Ju01. Γ_0^2/Γ=0.30 eV *5*.
7722.7 *4*	(1)		36 *6*	
7776.9 *7*	(1)		28 *5*	
7783.8 *9*			24 *5*	
7796.6 *4*	1		66 *7*	
7803.7 *6*	1		42 *5*	
7814.3 *7*	1		26 *4*	
7817.2 *2*			20.7 *17*	
7836.3 *6*			17 *4*	
7849.3 *5*	(1)		22 *4*	
7861.2 *4*	1		31 *6*	
7883.3 *10*	1		16 *4*	

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^{76}Ge(γ,γ') 2022Sc03,1995Ju01 (continued)

^{76}Ge Levels (continued)

E(level)[†]	Jπ[‡]	Γ[a]	I_s (eVb)[&]	Comments
7893.6 *12*			11 *3*	
7913.4 *2*	1^{-}[@]	0.72 eV *17*	85 *8*	B(E1)↑=4.2×10^{-5} *10* I_s (eVb): other: 133 *32* from 1995Ju01. Γ_0^2/Γ=0.72 eV *17*.
7949.9 *2*	1		42 *5*	
7975.6 *7*	(1)		29 *5*	
7995.8 *4*	(1)		25 *4*	
8017.5 *14*	(1)		19 *5*	
8026.5 *8*	(1)		34 *7*	
8049.3 *6*	(1)		34 *5*	
8063.4 *8*	1		20 *4*	
8094.2 *8*			12 *4*	
8102.8 *5*			24 *5*	
8109.5 *8*			13 *3*	
8134.5 *11*			13 *4*	
8151.6 *5*	$1^{(-)}$[@]	0.71 eV *7*	52 *7*	B(E1)↑=3.7×10^{-5} *4* I_s (eVb): other: 123 *12* from 1995Ju01. Γ_0^2/Γ=0.71 eV *7*.
8160.2 *9*			25 *5*	
8177.8 *4*	1		56 *6*	
8187.8 *5*	1		49 *6*	
8236.4 *4*	(1)		44 *6*	
8252.9 *9*			25 *6*	
8259.6 *6*	(1)		43 *7*	
8284.5 *3*	(1)		72 *8*	
8294.3 *12*			21 *4*	
8303.5 *5*	1		49 *6*	
8317.8 *3*	1		77 *7*	
8328.9 *7*	1		27 *4*	
8347.7 *9*			19 *4*	
8357.4 *7*	(1)		28 *5*	
8397.3 *5*			38 *6*	
8418.0 *15*			9 *3*	
8425.2 *3*	1[@]	0.29 eV *5*	53 *7*	I_s (eVb): other: 46 *7* from 1995Ju01. Γ_0^2/Γ=0.29 eV *5*.
8446.1 *7*	(1)		16 *3*	Evaluator's note: $\gamma\gamma(\theta)$ is too imprecise to assign definite J=1 in 2022Sc03.
8461.9 *9*			13 *3*	
8500.0 *3*	1		62 *7*	
8520.7 *6*			23 *6*	
8535.1 *5*	1		33 *5*	
8546.1 *5*	1^{-}[@]	0.76 eV *9*	73 *10*	B(E1)↑=3.5×10^{-5} *4* I_s (eVb): other: 120 *14* from 1995Ju01. Γ_0^2/Γ=0.76 eV *9*.
8552.3 *8*	1		34 *7*	
8566.9 *3*	1		49 *6*	
8602.3 *5*			19 *4*	
8625.7 *7*	1		28 *11*	
8649.1 *8*			22 *4*	
8662.0 *4*	(1)		52 *6*	
8696.2 *7*			20 *10*	
8740.7 *4*	(1)		41 *5*	
8752.8 *4*	1^{-}[@]		43 *5*	B(E1)↑=9.6×10^{-5} *15* I_s (eVb): other: 125 *13* from 1995Ju01. Γ_0^2/Γ=0.83 eV *9*. Γ_f=2.25 eV *36*.
8768.4 *9*	1		15 *4*	

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^{76}Ge(γ,γ') 2022Sc03,1995Ju01 (continued)

^{76}Ge Levels (continued)

E(level)[†]	J$^\pi$[‡]	Γ[a]	I$_s$ (eVb)[&]	Comments
8806.2 *5*			27 *7*	
8843.7 *4*	1		39 *6*	
8888.5 *9*			19 *5*	
9014.2 *14*	1$^-$[@]	0.71 eV *8*	24 *9*	B(E1)↑=2.8×10^{-5} *3* I$_s$ (eVb): other: 101 *12* from 1995Ju01. Γ_0^2/Γ=0.71 eV *8*.
9019.5 *10*	(1)		37 *12*	
9033.1 *9*			15 *4*	
9051.7 *12*	(1)		17 *5*	
9058.5 *11*			18 *5*	
9163.3 *9*	1		13.9 *28*	
9175.5 *8*	1		19.1 *29*	
9187.4 *4*	1		35 *4*	
9254.6 *7*			21 *4*	
9264.1 *6*			22 *3*	
9305.0 *4*			18.0 *26*	
9315.8 *4*			23 *3*	
9337.8 *6*			17 *3*	
9354.5 *8*	(1)		15.4 *27*	
9365.9 *5*	1		29 *4*	
9377.9 *4*	(1)		38 *5*	
9399.4 *6*	1		19 *3*	
9409.9 *4*	1		49 *5*	
9417.6 *5*	1		29 *4*	
9556.6 *5*	1		11.5 *22*	

[†] From Eγ data.
[‡] From $\gamma\gamma(\theta)$ with unpolarized bremsstrahlung (2022Sc03), unless otherwise stated.
[#] Assignment taken by 2022Sc03 from literature.
[@] From $\gamma\gamma(\theta)$ with polarized and unpolarized bremsstrahlung (1995Ju01).
[&] Energy integrated cross section from 2022Sc03.
[a] For levels decaying by a ground-state transition only, $\Gamma=\Gamma_0$ (1995Ju01).

γ(^{76}Ge)

Iγ(90°)/Ig(127°) values under comments are from 2022Sc03. The expected values are Iγ(90°)/Ig(127°)=0.74 for 0 → 1 → 0 sequence, and 2.15 for 0 → 2 → 0 sequence (2022Sc03).

E$_i$(level)	J$_i^\pi$	E$_\gamma$[†]	I$_\gamma$[#]	E$_f$	J$_f^\pi$	Comments
564.5	2$^+$	564.5 *1*		0.0	0$^+$	Evaluator's note: energy seems too high by 1.6 keV as compared to some precise values in literature of 562.93 keV. Iγ(90°)/Iγ(127°)=1.05 *14*.
1109.2	2$^+$	1109.2 *1*		0.0	0$^+$	Evaluator's note: energy seems too high by 0.8 keV as compared to some precise values in literature of 1108.4 keV. Iγ(90°)/Iγ(127°)=1.11 *15*.
2504.2	2$^+$	2504.2 *4*		0.0	0$^+$	
2655.1	(1)	2655.1 *3*		0.0	0$^+$	Iγ(90°)/Iγ(127°)=0.79 *27*.
2919.8	1	2919.5 *2*	100	0.0	0$^+$	E$_\gamma$: weighted average of 2919.7 *2* (1995Ju01) and 2919.3 *2* (2022Sc03). I$_\gamma$: from 1995Ju01. Iγ(90°)/Iγ(127°)=1.33 *24*.
3006.7	1$^+$	3006.7 *2*		0.0	0$^+$	Iγ(90°)/Iγ(127°)=0.90 *16*.

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^{76}Ge(γ,γ′) 2022Sc03,1995Ju01 (continued)

γ(^{76}Ge) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π	Mult.[@]	Comments
3014.2	1	3014.1[‡] *4*	100	0.0	0^+		
3088.4	1	3088.3[‡] *7*	100	0.0	0^+		
3140.9	1	2578.3[‡]		564.5	2^+		
		3141.1 *2*		0.0	0^+		E_γ: weighted average of 3141.2 *2* (1995Ju01) and 3140.9 *2* (2022Sc03). Iγ(90°)/Iγ(127°)=1.05 *15*.
3200.0		3200.0 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.23 *23*.
3418.9	1^+	2310.9[‡]		1109.2	2^+		
		2856.4[‡]		564.5	2^+		
		3419.1 *2*		0.0	0^+	M1	E_γ: unweighted average of 3419.2 *1* (1995Ju01) and 3418.9 *1* (2022Sc03). Iγ(90°)/Iγ(127°)=0.86 *4*.
3596.8	2^+	3033.8[‡]		564.5	2^+		
		3596.7[‡] *4*		0.0	0^+	E2	
3680.4	1^-	3117.7[‡]		564.5	2^+		
		3680.5 *1*		0.0	0^+	E1	E_γ: weighted average of 3680.6 *1* (1995Ju01) and 3680.4 *1* (2022Sc03). Iγ(90°)/Iγ(127°)=0.84 *3*.
3763.2	1^+	2655.0[‡]		1109.2	2^+		
		3200.3[‡]		564.5	2^+		
		3763.2 *1*		0.0	0^+	M1	E_γ: from 2022Sc03. Other: 3763.3 *2* (1995Ju01). Iγ(90°)/Iγ(127°)=0.83 *6*.
3951.0		3951.0 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.10 *28*.
4024.0	$1^{(-)}$	4024.0 *2*		0.0	0^+	(E1)	E_γ: from 2022Sc03. Other: 4024.1 *3* (1995Ju01). Iγ(90°)/Iγ(127°)=0.70 *20*.
4035.0	1	4035.0 *2*	100	0.0	0^+		E_γ: from 2022Sc03. Other: 4034.7 *9* (1995Ju01). Iγ(90°)/Iγ(127°)=0.76 *15*.
4115.9	1	4115.9 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.81 *12*.
4250.8	1	4250.8 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.68 *20*.
4331.3	1	4331.2[‡] *12*	100	0.0	0^+		
4624.0	1^+	4624.0 *2*		0.0	0^+	M1	E_γ: from 2022Sc03. Other: 4623.5 *11* (1995Ju01). Iγ(90°)/Iγ(127°)=0.84 *8*.
4661.0	1	4661.0 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.53 *16*.
4678.1	1	4678.1 *1*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.75 *5*.
4722.2	(1)	4722.2 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.88 *15*.
4741.0		4741.0 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.94 *15*.
4788.9		4788.9 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.17 *26*.
4837.0	(1)	4837.0 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.88 *20*.
4845.9	1	4845.9 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.76 *13*.
4874.5		4874.5 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.5 *6*.
4916.5	1	4917.0 *6*		0.0	0^+		E_γ: weighted average of 4917.5 *6* (1995Ju01) and 4916.5 *6* (2022Sc03). Iγ(90°)/Iγ(127°)=0.75 *4*.
4935.9	1	4935.9 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.91 *7*.
5116.4	1	5116.4 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.85 *9*.
5166.7	(1)	5166.7 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.91 *9*.
5185.8	(1)	5185.8 *1*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.98 *6*.
5202.3	1	5202.3 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.80 *8*.
5222.0		5222.0 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.04 *15*.
5266.8	1	5266.8 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.65 *13*.
5273.6	(1)	5273.6 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.80 *24*.
5284.9	1	5284.9 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.60 *10*.
5304.1	1	5304.1 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.56 *13*.

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^{76}Ge(γ,γ′) 2022Sc03,1995Ju01 (continued)

γ(^{76}Ge) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π	Mult.[@]	Comments
5365.6	1	5365.6 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.68 *12*.
5379.5	1	5379.5 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.59 *16*.
5390.6	(1)	5390.6 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.81 *22*.
5418.6	(1)	5418.6 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.76 *27*.
5434.3	1	5434.3 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.74 *22*.
5492.7	1	5492.7 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.62 *13*.
5540.1	1	5540.2 *2*	100	0.0	0^+		E_γ: weighted average of 5540.5 *5* (1995Ju01) and 5540.1 *2* (2022Sc03). I_γ: from 1995Ju01. Iγ(90°)/Iγ(127°)=0.76 *5*.
5567.4	(1)	5567.4 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.92 *8*.
5581.0	1	5579.9 *11*		0.0	0^+		E_γ: unweighted average of 5578.8 *5* (1995Ju01) and 5581.0 *2* (2022Sc03). Iγ(90°)/Iγ(127°)=0.66 *8*.
5626.7	1	5626.5[‡] *8*	100	0.0	0^+		
5665.2	1	5665.2 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.72 *10*.
5677.6	1	5677.6 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.75 *11*.
5698.8	1^-	5698.8 *2*	100	0.0	0^+	E1	E_γ: from 2022Sc03. Other: 5698.7 *7* (1995Ju01).
5708.4	(1)	5708.4 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.98 *21*.
5748.3	1^-	5748.3 *1*	100	0.0	0^+	E1	E_γ: from 2022Sc03. Other: 5748.3 *9* (1995Ju01). Iγ(90°)/Iγ(127°)=0.81 *5*.
5785.0	1	5785.0 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.72 *5*.
5794.1	1	5794.1 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.66 *7*.
5820.8		5820.8 *6*		0.0	0^+		
5825.3	1	5825.3 *8*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.76 *10*.
5846.5		5846.5 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.81 *28*.
5864.8		5864.8 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.83 *22*.
5908.8		5908.8 *3*		0.0	0^+		
5954.8	1	5955.6 *8*	100	0.0	0^+		E_γ: unweighted average of 5956.3 *5* (1995Ju01) and 5954.8 *2* (2022Sc03). Iγ(90°)/Iγ(127°)=0.71 *5*.
5983.0	1^-	5983.0 *2*	100	0.0	0^+	E1	E_γ: from 2022Sc03. Other: 5983.6 *8* (1995Ju01). Iγ(90°)/Iγ(127°)=0.69 *4*.
6048.4	1	6048.4 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.81 *20*.
6081.4	(1)	6081.4 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.90 *16*.
6102.0		6102.0 *9*		0.0	0^+		
6113.6	1	6113.6 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.77 *9*.
6130.3	1	6130.3 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.76 *7*.
6145.6	1	6145.6 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.77 *9*.
6162.4		6162.4 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.9 *4*.
6191.3	1	6191.3 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.72 *6*.
6223.4		6223.4 *7*		0.0	0^+		
6228.2	1	6228.2 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.79 *11*.
6234.8		6234.8 *9*		0.0	0^+		
6240.7	1	6240.7 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.70 *14*.
6272.7	1	6272.7 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.79 *9*.
6285.3	1	6285.3 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.68 *6*.
6315.4	1	6315.4 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.66 *11*.
6330.2	1	6330.2 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.77 *5*.
6366.2		6366.2 *11*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.0 *3*.
6393.2	1	6393.2 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.81 *19*.
6408.1	1	6408.1 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.63 *29*.
6436.1		6436.1 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.2 *4*.
6448.3		6448.3 *11*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.9 *4*.
6472.2	1	6472.2 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.79 *9*.
6497.9	1	6497.9 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.72 *13*.

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^{76}Ge(γ,γ') 2022Sc03,1995Ju01 (continued)

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

E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π	Mult.[@]	Comments
6513.3	1	6513.3 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.75 *11*.
6572.0		6572.0 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.08 *21*.
6601.2	1	6601.2 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.77 *6*.
6611.1		6611.1 *6*		0.0	0^+		
6629.0	1	6629.0 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.79 *9*.
6641.9		6641.9 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.00 *15*.
6661.4		6661.4 *9*		0.0	0^+		
6670.6	1	6670.6 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.85 *9*.
6741.6	(1)	6741.6 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.86 *20*.
6764.8	1	6764.8 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.74 *11*.
6786.7	1	6786.7 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.83 *6*.
6816.5	1	6816.5 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.75 *7*.
6835.5	1	6835.5 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.70 *5*.
6846.2	1	6846.2 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.66 *7*.
6880.3	1	6880.3 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.70 *6*.
6884.2		6884.2 *10*		0.0	0^+		
6898.9	1	6898.9 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.55 *8*.
6908.0		6908.0 *18*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.2 *3*.
6938.6	1	6938.6 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.61 *16*.
6959.9	1	6959.9 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.71 *8*.
6985.1	1	6985.1 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.53 *9*.
6998.7	1^-	6998.7 *3*	100	0.0	0^+	E1	E_γ: from 2022Sc03. Other: 6998.7 *8* (1995Ju01). Iγ(90°)/Iγ(127°)=0.68 *5*.
7011.0	1	7011.0 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.46 *16*.
7025.8	$1^{(-)}$	7026.0 *3*		0.0	0^+	(E1)	E_γ: weighted average of 7026.4 *5* (1995Ju01) and 7025.8 *3* (2022Sc03). Iγ(90°)/Iγ(127°)=0.73 *8*.
7047.9	1	7047.9 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.58 *22*.
7081.2	1	7081.2 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.53 *29*.
7091.4	1	7091.4 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.74 *11*.
7102.4	1	7102.4 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.75 *26*.
7121.3	1	7121.3 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.80 *8*.
7130.1	1	7130.1 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.70 *9*.
7147.3	1	7147.3 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.76 *13*.
7171.6		7171.6 *9*		0.0	0^+		
7250.5	1^-	7250.5 *2*		0.0	0^+	E1	E_γ: from 2022Sc03. Other: 7251.0 *7* (1995Ju01). Iγ(90°)/Iγ(127°)=0.79 *8*.
7289.7		7289.7 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.9 *5*.
7300.7	1^-	7300.7 *3*		0.0	0^+	E1	E_γ: from 2022Sc03. Other: 7300.8 *24* (1995Ju01). Iγ(90°)/Iγ(127°)=0.75 *9*.
7406.7	1	7406.7 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.76 *11*.
7415.6		7415.6 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.98 *18*.
7452.2		7452.2 *5*		0.0	0^+		
7478.6		7478.6 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.8 *3*.
7485.0	1	7485.0 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.65 *26*.
7521.2	1	7521.2 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.75 *14*.
7536.6	(1)	7536.6 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.89 *15*.
7548.8	(1)	7548.8 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.95 *26*.
7584.6	1	7584.6 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.67 *9*.
7642.6	1	7642.6 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.76 *9*.
7650.8	1	7650.8 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.79 *10*.
7677.7	1	7677.7 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.78 *12*.
7694.0	1	7694.0 *3*	100	0.0	0^+		E_γ: from 2022Sc03. Other: 7694.2 *11* (1995Ju01). Iγ(90°)/Iγ(127°)=0.75 *10*.
7722.7	(1)	7722.7 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.93 *19*.
7776.9	(1)	7776.9 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.83 *17*.

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^{76}Ge(γ,γ') 2022Sc03,1995Ju01 (continued)

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

E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π	Mult.[@]	Comments
7783.8		7783.8 *9*		0.0	0^+		
7796.6	1	7796.6 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.70 *10*.
7803.7	1	7803.7 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.76 *13*.
7814.3	1	7814.3 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.79 *16*.
7817.2		7817.2 *2*		0.0	0^+		
7836.3		7836.3 *6*		0.0	0^+		
7849.3	(1)	7849.3 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.77 *24*.
7861.2	1	7861.2 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.51 *20*.
7883.3	1	7883.3 *10*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.69 *26*.
7893.6		7893.6 *12*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.0 *4*.
7913.4	1^-	7915.8 *24*	100	0.0	0^+	E1	E_γ: unweighted average of 7918.2 *23* (1995Ju01) and 7913.4 *2* (2022Sc03). Iγ(90°)/Iγ(127°)=0.80 *7*.
7949.9	1	7949.9 *2*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.86 *12*.
7975.6	(1)	7975.6 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.93 *16*.
7995.8	(1)	7995.8 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.85 *18*.
8017.5	(1)	8017.5 *14*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.7 *3*.
8026.5	(1)	8026.5 *8*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.86 *25*.
8049.3	(1)	8049.3 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.82 *21*.
8063.4	1	8063.4 *8*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.71 *27*.
8094.2		8094.2 *8*		0.0	0^+		
8102.8		8102.8 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.23 *28*.
8109.5		8109.5 *8*		0.0	0^+		
8134.5		8134.5 *11*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.4 *5*.
8151.6	$1^{(-)}$	8151.8 *5*	100	0.0	0^+	(E1)	E_γ: weighted average of 8152.8 *10* (1995Ju01) and 8151.6 *5* (2022Sc03). Iγ(90°)/Iγ(127°)=0.85 *12*.
8160.2		8160.2 *9*		0.0	0^+		
8177.8	1	8177.8 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.70 *8*.
8187.8	1	8187.8 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.86 *11*.
8236.4	(1)	8236.4 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.90 *14*.
8252.9		8252.9 *9*		0.0	0^+		
8259.6	(1)	8259.6 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.86 *16*.
8284.5	(1)	8284.5 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.88 *13*.
8294.3		8294.3 *12*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.86 *25*.
8303.5	1	8303.5 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.77 *13*.
8317.8	1	8317.8 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.74 *9*.
8328.9	1	8328.9 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.77 *15*.
8347.7		8347.7 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.84 *25*.
8357.4	(1)	8357.4 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.91 *29*.
8397.3		8397.3 *5*		0.0	0^+		
8418.0		8418.0 *15*		0.0	0^+		
8425.2	1	8425.2 *3*	100	0.0	0^+		E_γ: from 2022Sc03. Other: 8425.3 *12* (1995Ju01). Iγ(90°)/Iγ(127°)=1.18 *26*.
8446.1	(1)	8446.1 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.5 *4*.
8461.9		8461.9 *9*		0.0	0^+		
8500.0	1	8500.0 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.84 *11*.
8520.7		8520.7 *6*		0.0	0^+		
8535.1	1	8535.1 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.61 *20*.
8546.1	1^-	8546.1 *5*		0.0	0^+	E1	E_γ: from 2022Sc03. Other: 8546.3 *25* (1995Ju01). Iγ(90°)/Iγ(127°)=0.68 *11*.
8552.3	1	8552.3 *8*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.42 *20*.
8566.9	1	8566.9 *3*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.78 *12*.
8602.3		8602.3 *5*		0.0	0^+		
8625.7	1	8625.7 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.49 *25*.

Continued on next page (footnotes at end of table)

^{76}Ge(γ,γ') 2022Sc03,1995Ju01 (continued)

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

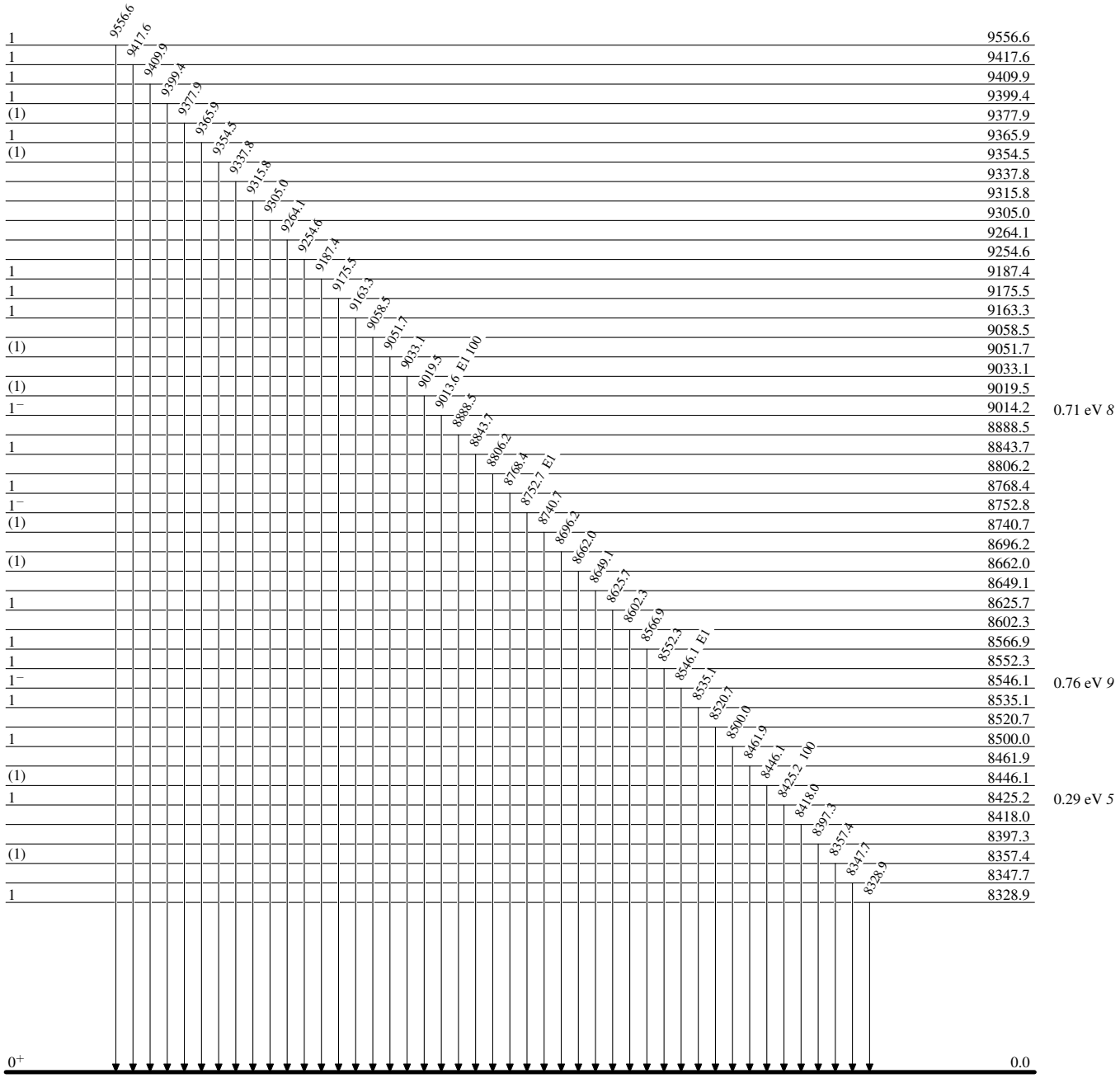
E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π	Mult.[@]	Comments
8649.1		8649.1 *8*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.20 *28*.
8662.0	(1)	8662.0 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.89 *12*.
8696.2		8696.2 *7*		0.0	0^+		
8740.7	(1)	8740.7 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.92 *13*.
8752.8	1^-	8752.7 *6*		0.0	0^+	E1	E_γ: weighted average of 8747.9 *31* (1995Ju01) and 8752.8 *4* (2022Sc03). Iγ(90°)/Iγ(127°)=1.05 *14*.
8768.4	1	8768.4 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.62 *25*.
8806.2		8806.2 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.2 *5*.
8843.7	1	8843.7 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.67 *11*.
8888.5		8888.5 *9*		0.0	0^+		
9014.2	1^-	9013.6 *14*	100	0.0	0^+	E1	E_γ: weighted average of 9012.6 *19* (1995Ju01) and 9014.2 *14* (2022Sc03).
9019.5	(1)	9019.5 *10*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.98 *15*.
9033.1		9033.1 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.0 *3*.
9051.7	(1)	9051.7 *12*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.89 *17*.
9058.5		9058.5 *11*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.92 *29*.
9163.3	1	9163.3 *9*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.69 *23*.
9175.5	1	9175.5 *8*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.59 *16*.
9187.4	1	9187.4 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.80 *12*.
9254.6		9254.6 *7*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.08 *29*.
9264.1		9264.1 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.1 *3*.
9305.0		9305.0 *4*		0.0	0^+		
9315.8		9315.8 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.0 *5*.
9337.8		9337.8 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=1.0 *3*.
9354.5	(1)	9354.5 *8*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.92 *29*.
9365.9	1	9365.9 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.81 *18*.
9377.9	(1)	9377.9 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.95 *18*.
9399.4	1	9399.4 *6*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.60 *17*.
9409.9	1	9409.9 *4*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.69 *11*.
9417.6	1	9417.6 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.52 *13*.
9556.6	1	9556.6 *5*		0.0	0^+		Iγ(90°)/Iγ(127°)=0.71 *22*.

[†] From level-energy given in 2022Sc03, with recoil correction included by the authors, unless otherwise noted. Values quoted from 1995Ju01 are from level-energy given in 1995Ju01, with recoil correction removed by the evaluators.
[‡] From 1995Ju01.
[#] From 1995Ju01.
[@] Implied by (pol γ,γ') results in 1995Ju01.

^{76}Ge(γ,γ′) 2022Sc03,1995Ju01

Level Scheme

Intensities: Relative photon branching from each level

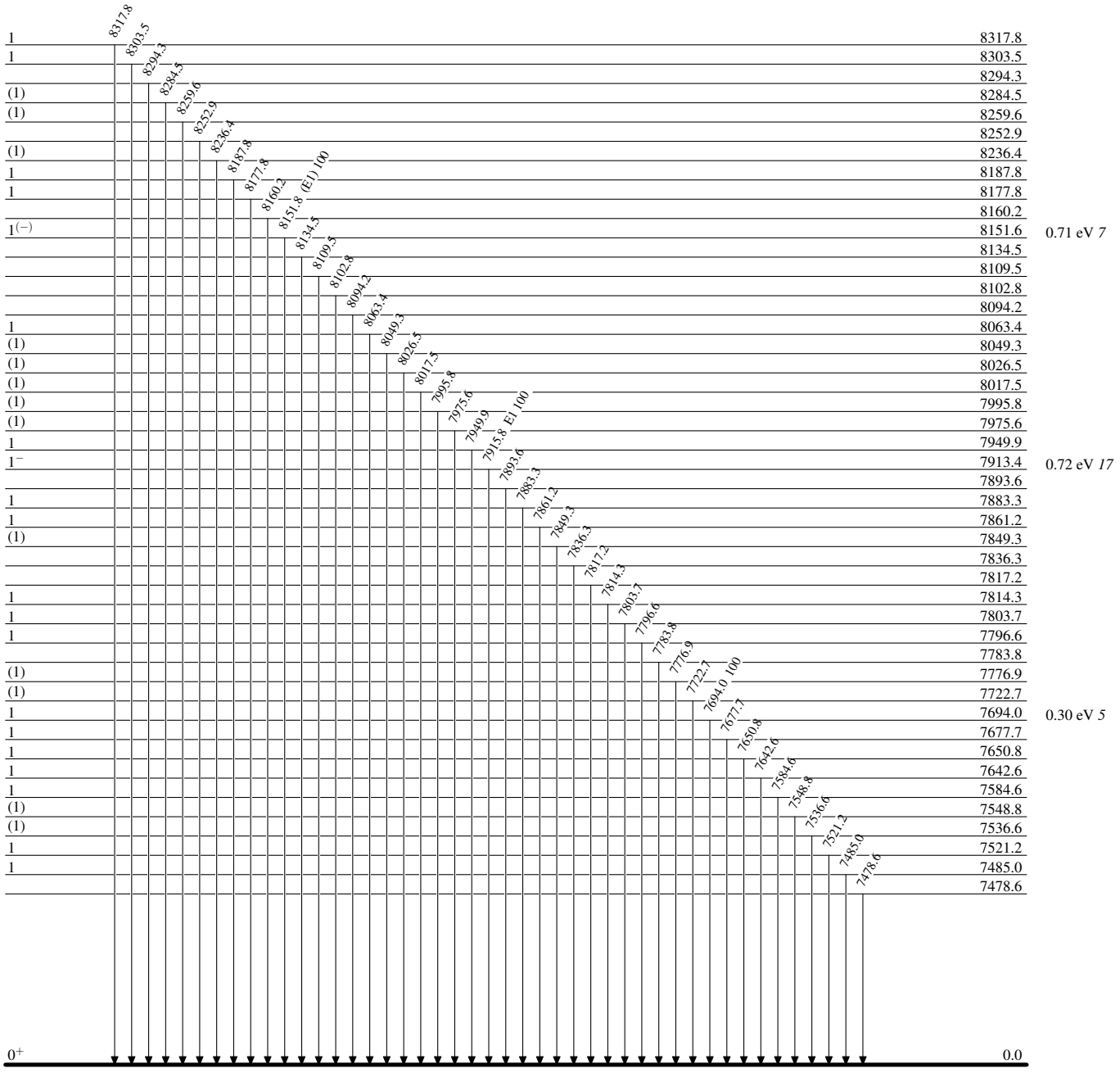


$^{76}_{32}Ge_{44}$

^{76}Ge(γ,γ') **2022Sc03,1995Ju01**

Level Scheme (continued)

Intensities: Relative photon branching from each level

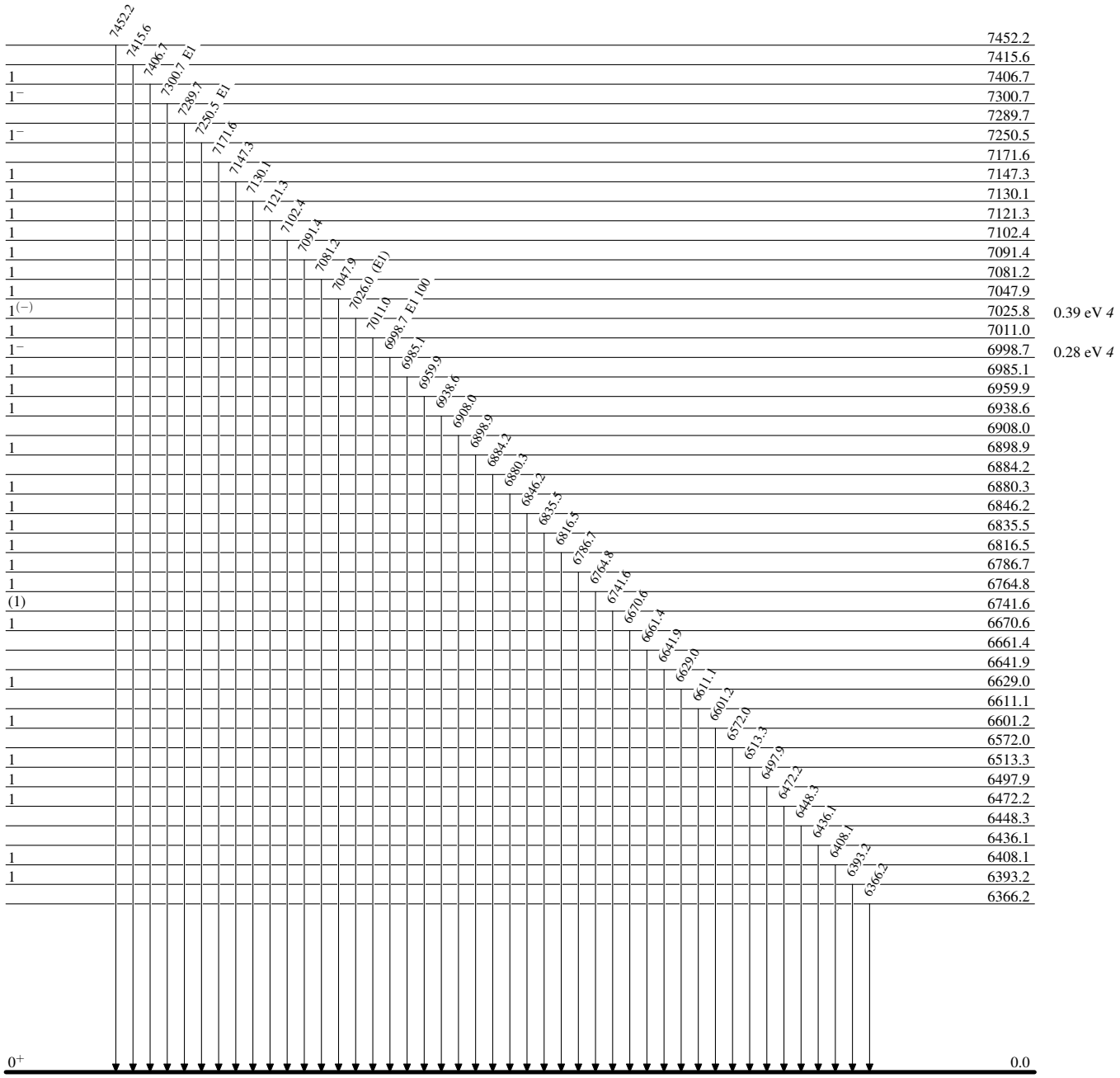


$^{76}_{32}Ge_{44}$

^{76}Ge(γ,γ′) 2022Sc03,1995Ju01

Level Scheme (continued)

Intensities: Relative photon branching from each level

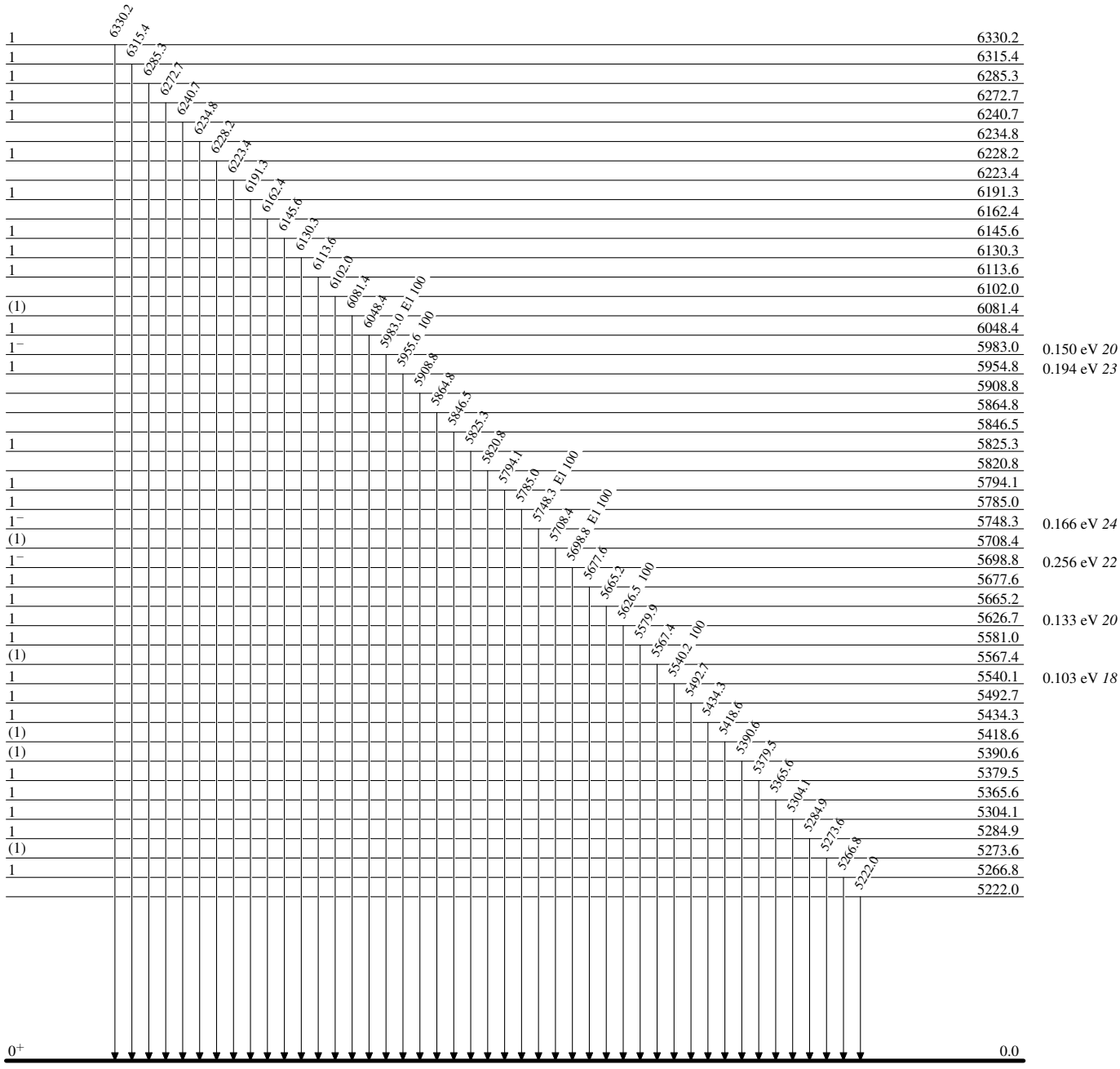


$^{76}_{32}Ge_{44}$

^{76}Ge(γ,γ') **2022Sc03,1995Ju01**

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{76}_{32}Ge_{44}$

^{76}Ge(γ,γ′) 2022Sc03,1995Ju01

Level Scheme (continued)

Intensities: Relative photon branching from each level