

$^{112}\text{Sn}(\gamma, \gamma')$ 2014Oz03, 2006Py01, 2008BoZK

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev		NDS 124, 157 (2015)	1-Aug-2014

2014Oz03: Target of about 2 g of >99% enriched metallic ^{112}Sn placed between ^{11}B layers. Incident bremsstrahlung beam with endpoints up 9.5 MeV, produced by S-DALINAC electron linear accelerator at TU-Darmstadt. Measured $E\gamma$, $I\gamma$, $\gamma(\theta)$ at 90° and 130° . Deduced levels, J , π , multipolarity, B(E1), summed E1 strengths, widths.

2006Py01: Facility: Stuttgart Dynamitron accelerator; Beam: unpolarized bremsstrahlung beam from 3.8 MeV electrons; Target: 1990 mg, enriched to 99.5% in ^{112}Sn ; Detectors: three HPGe, one of which with BGO shield; Measured: $E\gamma$; Deduced: B(E2); Also, from the same collaboration: [2005PyZZ](#).

2008BoZK: Facility: HIγS, Duke FEL; Beam: bremsstrahlung from accelerated electrons; Detectors: five HPGe; Measured: γ , γ - $\gamma(\theta)$, lear pol., $E\gamma$, $I\gamma$; Deduced: γ -ray Mult., Γ_0 , ^{112}Sn level scheme.

 ^{112}Sn Levels

B(E1) \uparrow values are listed here in e^2b units.

Summed E1 transition strength, B(E1)=0.00175 e^2b 24, with a centroid energy of 6.7 MeV for resolved transitions up to 9.5 MeV excitation.

E(level) \dagger	J^π	$\Gamma_{\gamma^0}^2/\Gamma$ (eV)	Comments
0	0^+		
3433.9 5	1^-	0.162 eV 15	B(E1) \uparrow = 11.5×10^{-5} 11 Other: B(E1)= 10.7×10^{-5} 12 (2006Py01).
4141.3 5	1^-	0.017 eV 4	B(E1) \uparrow = 0.7×10^{-5} 2
4162.3 5	1^-	0.044 eV 4	B(E1) \uparrow = 1.8×10^{-5} 2
4330.4 5	1^-	0.015 eV 3	B(E1) \uparrow = 0.5×10^{-5} 1
4726.5 5	1^-	0.012 eV 3	B(E1) \uparrow = 0.3×10^{-5} 1
4837.4 5	1^-	0.028 eV 5	B(E1) \uparrow = 0.7×10^{-5} 1
5057.1 5	1^-	0.134 eV 13	B(E1) \uparrow = 3.0×10^{-5} 3
5128.2 5	1^-	0.198 eV 20	B(E1) \uparrow = 4.2×10^{-5} 4
5246.2 5	1^-	0.166 eV 14	B(E1) \uparrow = 3.3×10^{-5} 3
5480.5 5	1^-	0.066 eV 11	B(E1) \uparrow = 1.2×10^{-5} 2
5502.6 5	1^-	0.086 eV 10	B(E1) \uparrow = 1.5×10^{-5} 2
5593.7 5	1^-	0.043 eV 7	B(E1) \uparrow = 0.7×10^{-5} 1
5617.6 5	1^-	0.039 eV 7	B(E1) \uparrow = 0.6×10^{-5} 1
5649.1 5	1^-	0.043 eV 7	B(E1) \uparrow = 0.7×10^{-5} 1
5666.4 5	1^-	0.023 eV 6	B(E1) \uparrow = 0.4×10^{-5} 1
5699.9 5	1^-	0.033 eV 7	B(E1) \uparrow = 0.5×10^{-5} 1
5748.6 5	1^-	0.066 eV 7	B(E1) \uparrow = 1.0×10^{-5} 1
5812.7 5	1^-	0.034 eV 8	B(E1) \uparrow = 0.5×10^{-5} 1
5860.7 5	1^-	0.159 eV 27	B(E1) \uparrow = 2.3×10^{-5} 4
5884.0 5	1^-	0.100 eV 16	B(E1) \uparrow = 1.4×10^{-5} 2
5924.1 5	1^-	0.112 eV 12	B(E1) \uparrow = 1.5×10^{-5} 2
5976.6 5	1^-	0.128 eV 14	B(E1) \uparrow = 1.7×10^{-5} 2
6005.0 10	1^-	0.244 eV 21	B(E1) \uparrow = 3.2×10^{-5} 3
6059.8 10	1^-	0.477 eV 44	B(E1) \uparrow = 6.1×10^{-5} 6
6080.9 10	1^-	0.073 eV 15	B(E1) \uparrow = 0.9×10^{-5} 2
6096.9 10	1^-	0.385 eV 23	B(E1) \uparrow = 3.6×10^{-5} 2
6129.0 10	1^-	0.115 eV 13	B(E1) \uparrow = 1.4×10^{-5} 2
6150.4 10	1^-	0.273 eV 28	B(E1) \uparrow = 3.4×10^{-5} 3
6168.3 10	1^-	0.098 eV 17	B(E1) \uparrow = 1.2×10^{-5} 2
6198.7 10	1^-	0.179 eV 18	B(E1) \uparrow = 2.2×10^{-5} 2
6224.3 10	1^-	0.315 eV 26	B(E1) \uparrow = 3.7×10^{-5} 3
6246.4 10	1^-	0.152 eV 20	B(E1) \uparrow = 1.8×10^{-5} 2
6259.1 10	1^-	0.130 eV 17	B(E1) \uparrow = 1.5×10^{-5} 2

$^{112}\text{Sn}(\gamma, \gamma')$ 2014Oz03,2006Py01,2008BoZK (continued) ^{112}Sn Levels (continued)

E(level) [†]	J ^π #	$\Gamma_{\gamma_0}^2/\Gamma$ (eV)	Comments
6272.6	1 ⁻	0.220 eV 21	B(E1)↑=2.5×10 ⁻⁵ 3
6313.3	1 ⁻	0.251 eV 23	B(E1)↑=2.9×10 ⁻⁵ 3
6348.7	1 ⁻	0.134 eV 17	B(E1)↑=1.5×10 ⁻⁵ 2
6388.1	1 ⁻	0.663 eV 47	B(E1)↑=7.3×10 ⁻⁵ 5 Other: B(E1)=5.17×10 ⁻⁵ 2 (2008BoZK).
6404.1	1 ⁻	1.69 eV 12	B(E1)↑=18.4×10 ⁻⁵ 13 Other: B(E1)=8.47×10 ⁻⁵ 3 (2008BoZK).
6428.6	1 ⁻	0.114 eV 18	B(E1)↑=1.2×10 ⁻⁵ 2 Other: B(E1)=4.89×10 ⁻⁵ 2 (2008BoZK).
6450.0	1 ⁻	0.109 eV 15	B(E1)↑=1.2×10 ⁻⁵ 2
6476.3 [‡]	1 ⁻	0.7 eV 4	B(E1)↑=7.46×10 ⁻⁵ 4 (2008BoZK)
6520.7	1 ⁻	0.309 eV 33	B(E1)↑=3.2×10 ⁻⁵ 3
6550.1	1 ⁻	0.054 eV 11	B(E1)↑=0.6×10 ⁻⁵ 1
6601.0	1 ⁻	0.173 eV 23	B(E1)↑=1.7×10 ⁻⁵ 2
6679.9	1 ⁻	0.074 eV 14	B(E1)↑=0.7×10 ⁻⁵ 1
6706.7	1 ⁻	0.187 eV 24	B(E1)↑=1.8×10 ⁻⁵ 2
6715.0	1 ⁻	0.156 eV 67	B(E1)↑=1.5×10 ⁻⁵ 6 Other: B(E1)=3.03×10 ⁻⁵ 1 (2008BoZK).
6731.9	1 ⁻	0.289 eV 51	B(E1)↑=2.7×10 ⁻⁵ 5 Other: B(E1)=2.66×10 ⁻⁵ 1 (2008BoZK).
6795.5	1 ⁻	0.185 eV 25	B(E1)↑=1.7×10 ⁻⁵ 2 Other: B(E1)=2.01×10 ⁻⁵ 1 (2008BoZK).
6818.7	1 ⁻	0.139 eV 23	B(E1)↑=1.3×10 ⁻⁵ 2 Other: B(E1)=3.16×10 ⁻⁵ 1 (2008BoZK).
6824.2	1 ⁻	0.194 eV 32	B(E1)↑=1.7×10 ⁻⁵ 3
6855.9	1 ⁻	0.170 eV 25	B(E1)↑=1.5×10 ⁻⁵ 2
6871.2	1 ⁻	0.189 eV 19	B(E1)↑=1.7×10 ⁻⁵ 2
6941.2	1 ⁻	0.367 eV 41	B(E1)↑=3.1×10 ⁻⁵ 3
6961.5	1 ⁻	0.362 eV 53	B(E1)↑=3.1×10 ⁻⁵ 5
6982.7	1 ⁻	0.246 eV 30	B(E1)↑=2.1×10 ⁻⁵ 3
7009.8	1 ⁻	0.062 eV 15	B(E1)↑=0.5×10 ⁻⁵ 1
7018.7	1 ⁻	0.082 eV 16	B(E1)↑=0.7×10 ⁻⁵ 1
7025.8	1 ⁻	0.086 eV 17	B(E1)↑=0.7×10 ⁻⁵ 1
7043.1	1 ⁻	0.245 eV 42	B(E1)↑=2.0×10 ⁻⁵ 3
7092.8	1 ⁻	0.524 eV 48	B(E1)↑=4.2×10 ⁻⁵ 4
7167.2	1 ⁻	0.363 eV 42	B(E1)↑=2.8×10 ⁻⁵ 3
7198.2	1 ⁻	0.578 eV 75	B(E1)↑=4.4×10 ⁻⁵ 6 Other: B(E1)=2.66×10 ⁻⁵ 1 (2008BoZK).
7208.1 [‡]	1 ⁻	0.15 eV 7	B(E1)↑=1.18×10 ⁻⁵ 1 (2008BoZK)
7217.8 [‡]	1 ⁻	0.25 eV 10	B(E1)↑=1.89×10 ⁻⁵ 1 (2008BoZK)
7228.1	1 ⁻	0.164 eV 27	B(E1)↑=1.2×10 ⁻⁵ 2 Other: B(E1)=2.01×10 ⁻⁵ 1 (2008BoZK).
7248.4 [‡]	1 ⁻	0.27 eV 11	B(E1)↑=2.01×10 ⁻⁵ 1 (2008BoZK)
7311.1	1 ⁻	0.138 eV 28	B(E1)↑=1.0×10 ⁻⁵ 2
7389.9	1 ⁻	0.183 eV 30	B(E1)↑=1.3×10 ⁻⁵ 2
7438.6	1 ⁻	0.275 eV 42	B(E1)↑=1.9×10 ⁻⁵ 3
7444.1	1 ⁻	0.233 eV 37	B(E1)↑=1.6×10 ⁻⁵ 3
7468.3	1 ⁻	0.186 eV 45	B(E1)↑=1.3×10 ⁻⁵ 3
7531.3	1 ⁻	0.429 eV 62	B(E1)↑=2.9×10 ⁻⁵ 4
7537.2	1 ⁻	0.770 eV 82	B(E1)↑=5.2×10 ⁻⁵ 6
7559.1	1 ⁻	0.323 eV 43	B(E1)↑=2.1×10 ⁻⁵ 3
7594.5	1 ⁻	0.205 eV 31	B(E1)↑=1.3×10 ⁻⁵ 2

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 $^{112}\text{Sn}(\gamma, \gamma')$ [2014Oz03,2006Py01,2008BoZK](#) (continued)

 ^{112}Sn Levels (continued)

<u>E(level)[†]</u>	<u>J^π#</u>	<u>$\Gamma_{\gamma 0}^2/\Gamma$ (eV)</u>	<u>Comments</u>
7615.3 10	1 ⁻	0.257 eV 41	B(E1) [†] = 1.7×10^{-5} 3
7859.5 10	1 ⁻	0.207 eV 35	B(E1) [†] = 1.2×10^{-5} 2

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$^{112}\text{Sn}(\gamma, \gamma')$ 2014Oz03,2006Py01,2008BoZK (continued) ^{112}Sn Levels (continued)

E(level) [†]	J ^π #	$\Gamma_{\gamma 0}^2/\Gamma$ (eV)	Comments
7904.7 10	1 ⁻	0.196 eV 40	B(E1)↑=1.1×10 ⁻⁵ 2
7936.7 10	1 ⁻	0.272 eV 39	B(E1)↑=1.6×10 ⁻⁵ 2
7988.2 10	1 ⁻	0.606 eV 62	B(E1)↑=3.4×10 ⁻⁵ 3
8020.7 10	1 ⁻	0.412 eV 67	B(E1)↑=2.3×10 ⁻⁵ 4
8051.6 10	1 ⁻	0.396 eV 60	B(E1)↑=2.2×10 ⁻⁵ 3
8069.6 10	1 ⁻	0.482 eV 65	B(E1)↑=2.6×10 ⁻⁵ 4
8194.5 10	1 ⁻	0.518 eV 75	B(E1)↑=2.7×10 ⁻⁵ 4
8218.2 10	1 ⁻	0.262 eV 48	B(E1)↑=1.4×10 ⁻⁵ 2
8253.6 10	1 ⁻	0.177 eV 38	B(E1)↑=0.9×10 ⁻⁵ 2
8448.6 10	1 ⁻	0.147 eV 41	B(E1)↑=0.7×10 ⁻⁵ 2
8568.9 10	1 ⁻	0.166 eV 43	B(E1)↑=0.8×10 ⁻⁵ 2
8600.4 10	1 ⁻	0.118 eV 35	B(E1)↑=0.5×10 ⁻⁵ 2
8750.2 10	1 ⁻	0.249 eV 56	B(E1)↑=1.1×10 ⁻⁵ 2
8823.4 10	1 ⁻	0.278 eV 64	B(E1)↑=1.2×10 ⁻⁵ 3
9050.5 10	1 ⁻	0.41 eV 11	B(E1)↑=1.6×10 ⁻⁵ 4
9095.3 10	1 ⁻	0.268 eV 65	B(E1)↑=1.0×10 ⁻⁵ 2
9150.1 10	1 ⁻	0.240 eV 75	B(E1)↑=0.9×10 ⁻⁵ 3
9329.8 10	1 ⁻	0.60 eV 14	B(E1)↑=2.1×10 ⁻⁵ 5

[†] From a least-squares fit to E_γ.

[‡] Level observed only in 2008BoZK.

Dipole transition (assumed E1) to 0⁺.

 $\gamma(^{112}\text{Sn})$

E _γ [†]	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [‡]
3433.8 5	3433.9	1 ⁻	0	0 ⁺	(E1)
4141.2 5	4141.3	1 ⁻	0	0 ⁺	(E1)
4162.2 5	4162.3	1 ⁻	0	0 ⁺	(E1)
4330.3 5	4330.4	1 ⁻	0	0 ⁺	(E1)
4726.4 5	4726.5	1 ⁻	0	0 ⁺	(E1)
4837.3 5	4837.4	1 ⁻	0	0 ⁺	(E1)
5057.0 5	5057.1	1 ⁻	0	0 ⁺	(E1)
5128.1 5	5128.2	1 ⁻	0	0 ⁺	(E1)
5246.1 5	5246.2	1 ⁻	0	0 ⁺	(E1)
5480.4 5	5480.5	1 ⁻	0	0 ⁺	(E1)
5502.5 5	5502.6	1 ⁻	0	0 ⁺	(E1)
5593.6 5	5593.7	1 ⁻	0	0 ⁺	(E1)
5617.4 5	5617.6	1 ⁻	0	0 ⁺	(E1)
5648.9 5	5649.1	1 ⁻	0	0 ⁺	(E1)
5666.2 5	5666.4	1 ⁻	0	0 ⁺	(E1)
5699.7 5	5699.9	1 ⁻	0	0 ⁺	(E1)
5748.4 5	5748.6	1 ⁻	0	0 ⁺	(E1)
5812.5 5	5812.7	1 ⁻	0	0 ⁺	(E1)
5860.5 5	5860.7	1 ⁻	0	0 ⁺	(E1)
5883.8 5	5884.0	1 ⁻	0	0 ⁺	(E1)
5923.9 5	5924.1	1 ⁻	0	0 ⁺	(E1)
5976.4 5	5976.6	1 ⁻	0	0 ⁺	(E1)
6004.8 10	6005.0	1 ⁻	0	0 ⁺	(E1)
6059.6 10	6059.8	1 ⁻	0	0 ⁺	(E1)
6080.7 10	6080.9	1 ⁻	0	0 ⁺	(E1)
6096.7 10	6096.9	1 ⁻	0	0 ⁺	(E1)

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$^{112}\text{Sn}(\gamma, \gamma')$ [2014Oz03,2006Py01,2008BoZK](#) (continued) $\gamma(^{112}\text{Sn})$ (continued)

E_γ †	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. ‡	Comments
6128.8 10	6129.0	1 ⁻	0	0 ⁺	(E1)	
6150.2 10	6150.4	1 ⁻	0	0 ⁺	(E1)	
6168.1 10	6168.3	1 ⁻	0	0 ⁺	(E1)	
6198.5 10	6198.7	1 ⁻	0	0 ⁺	(E1)	
6224.1 10	6224.3	1 ⁻	0	0 ⁺	(E1)	
6246.2 10	6246.4	1 ⁻	0	0 ⁺	(E1)	
6258.9 10	6259.1	1 ⁻	0	0 ⁺	(E1)	
6272.4 10	6272.6	1 ⁻	0	0 ⁺	(E1)	
6313.1 10	6313.3	1 ⁻	0	0 ⁺	(E1)	
6348.5 10	6348.7	1 ⁻	0	0 ⁺	(E1)	
6387.9 10	6388.1	1 ⁻	0	0 ⁺	(E1)	E_γ : 6384.9 keV 4 in 2008BoZK .
6403.9 10	6404.1	1 ⁻	0	0 ⁺	(E1)	E_γ : 6402.0 keV 2 in 2008BoZK .
6428.4 10	6428.6	1 ⁻	0	0 ⁺	(E1)	E_γ : 6431.6 keV 8 in 2008BoZK .
6449.8 10	6450.0	1 ⁻	0	0 ⁺	(E1)	
6476.1 [#] 15	6476.3	1 ⁻	0	0 ⁺	(E1) [#]	
6520.5 10	6520.7	1 ⁻	0	0 ⁺	(E1)	
6549.9 10	6550.1	1 ⁻	0	0 ⁺	(E1)	
6600.8 10	6601.0	1 ⁻	0	0 ⁺	(E1)	
6679.7 10	6679.9	1 ⁻	0	0 ⁺	(E1)	
6706.5 10	6706.7	1 ⁻	0	0 ⁺	(E1)	
6714.8 10	6715.0	1 ⁻	0	0 ⁺	(E1)	E_γ : 6718.7 keV 13 in 2008BoZK .
6731.7 10	6731.9	1 ⁻	0	0 ⁺	(E1)	E_γ : 6735.2 keV 14 in 2008BoZK .
6795.3 10	6795.5	1 ⁻	0	0 ⁺	(E1)	E_γ : 6791.6 keV 23 in 2008BoZK .
6818.5 10	6818.7	1 ⁻	0	0 ⁺	(E1)	E_γ : 6819.4 keV 11 in 2008BoZK .
6824.0 10	6824.2	1 ⁻	0	0 ⁺	(E1)	
6855.7 10	6855.9	1 ⁻	0	0 ⁺	(E1)	
6871.0 10	6871.2	1 ⁻	0	0 ⁺	(E1)	
6941.0 10	6941.2	1 ⁻	0	0 ⁺	(E1)	
6961.3 10	6961.5	1 ⁻	0	0 ⁺	(E1)	
6982.5 10	6982.7	1 ⁻	0	0 ⁺	(E1)	
7009.6 10	7009.8	1 ⁻	0	0 ⁺	(E1)	
7018.5 10	7018.7	1 ⁻	0	0 ⁺	(E1)	
7025.6 10	7025.8	1 ⁻	0	0 ⁺	(E1)	
7042.9 10	7043.1	1 ⁻	0	0 ⁺	(E1)	
7092.6 10	7092.8	1 ⁻	0	0 ⁺	(E1)	
7167.0 10	7167.2	1 ⁻	0	0 ⁺	(E1)	
7198.0 10	7198.2	1 ⁻	0	0 ⁺	(E1)	E_γ : 7199.6 keV 9 in 2008BoZK .
7207.9 [#] 10	7208.1	1 ⁻	0	0 ⁺	(E1) [#]	
7217.6 [#] 11	7217.8	1 ⁻	0	0 ⁺	(E1) [#]	
7227.8 10	7228.1	1 ⁻	0	0 ⁺	(E1)	E_γ : 7229.3 keV 14 in 2008BoZK .
7248.1 [#] 14	7248.4	1 ⁻	0	0 ⁺	(E1) [#]	
7310.8 10	7311.1	1 ⁻	0	0 ⁺	(E1)	
7389.6 10	7389.9	1 ⁻	0	0 ⁺	(E1)	
7438.3 10	7438.6	1 ⁻	0	0 ⁺	(E1)	
7443.8 10	7444.1	1 ⁻	0	0 ⁺	(E1)	
7468.0 10	7468.3	1 ⁻	0	0 ⁺	(E1)	
7531.0 10	7531.3	1 ⁻	0	0 ⁺	(E1)	
7536.9 10	7537.2	1 ⁻	0	0 ⁺	(E1)	
7558.8 10	7559.1	1 ⁻	0	0 ⁺	(E1)	
7594.2 10	7594.5	1 ⁻	0	0 ⁺	(E1)	
7615.0 10	7615.3	1 ⁻	0	0 ⁺	(E1)	
7859.2 10	7859.5	1 ⁻	0	0 ⁺	(E1)	
7904.4 10	7904.7	1 ⁻	0	0 ⁺	(E1)	
7936.4 10	7936.7	1 ⁻	0	0 ⁺	(E1)	
7987.9 10	7988.2	1 ⁻	0	0 ⁺	(E1)	

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$^{112}\text{Sn}(\gamma, \gamma')$ **2014Oz03, 2006Py01, 2008BoZK** (continued) $\gamma(^{112}\text{Sn})$ (continued)

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [‡]	E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [‡]
8020.4 <i>10</i>	8020.7	1 ⁻	0	0 ⁺	(E1)	8600.0 <i>10</i>	8600.4	1 ⁻	0	0 ⁺	(E1)
8051.3 <i>10</i>	8051.6	1 ⁻	0	0 ⁺	(E1)	8749.8 <i>10</i>	8750.2	1 ⁻	0	0 ⁺	(E1)
8069.3 <i>10</i>	8069.6	1 ⁻	0	0 ⁺	(E1)	8823.0 <i>10</i>	8823.4	1 ⁻	0	0 ⁺	(E1)
8194.2 <i>10</i>	8194.5	1 ⁻	0	0 ⁺	(E1)	9050.1 <i>10</i>	9050.5	1 ⁻	0	0 ⁺	(E1)
8217.9 <i>10</i>	8218.2	1 ⁻	0	0 ⁺	(E1)	9094.9 <i>10</i>	9095.3	1 ⁻	0	0 ⁺	(E1)
8253.3 <i>10</i>	8253.6	1 ⁻	0	0 ⁺	(E1)	9149.7 <i>10</i>	9150.1	1 ⁻	0	0 ⁺	(E1)
8448.3 <i>10</i>	8448.6	1 ⁻	0	0 ⁺	(E1)	9329.4 <i>10</i>	9329.8	1 ⁻	0	0 ⁺	(E1)
8568.5 <i>10</i>	8568.9	1 ⁻	0	0 ⁺	(E1)						

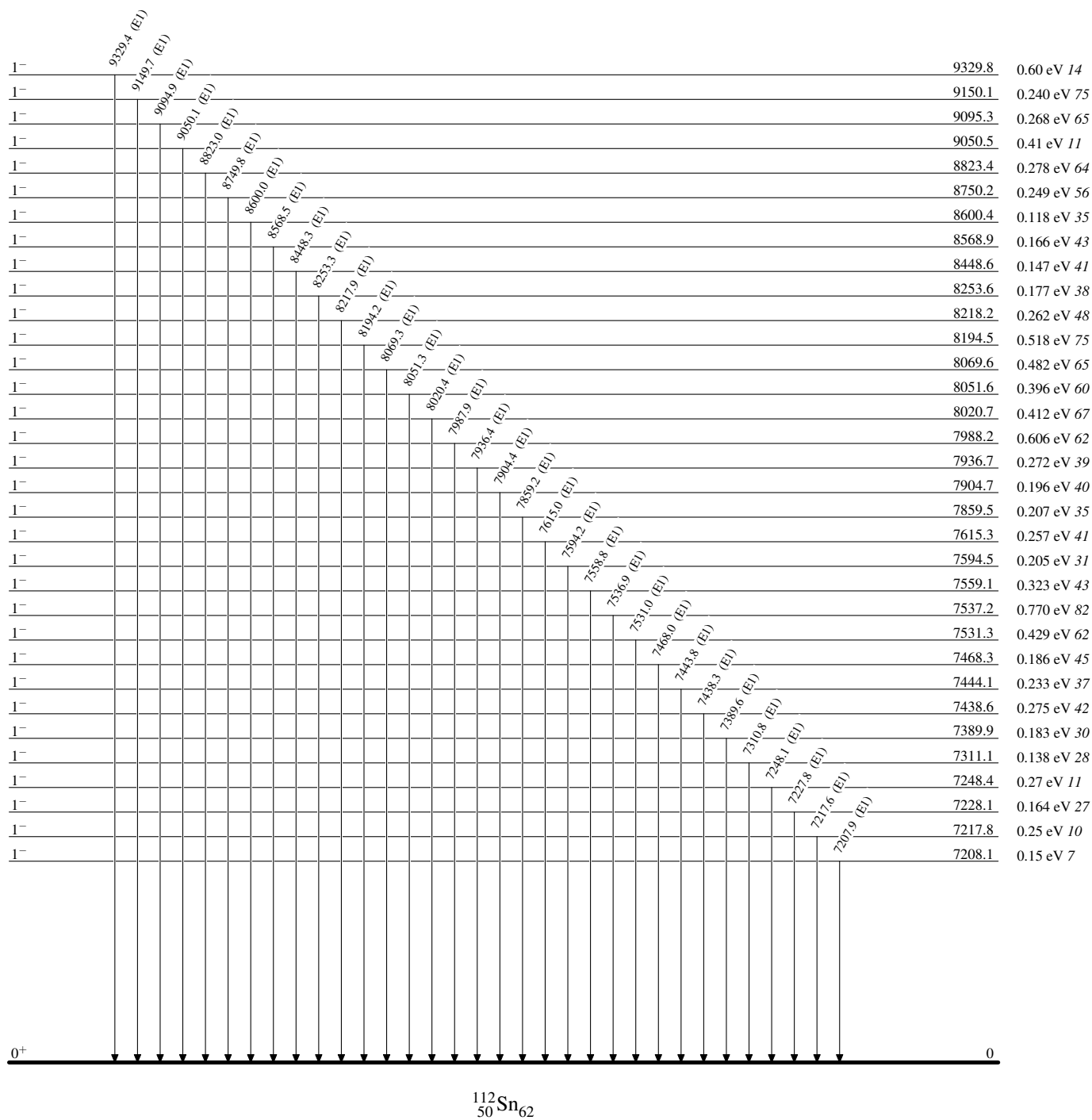
[†] From [2014Oz03](#), corrected for recoil energy. Uncertainties are 0.5 keV below 6 MeV and 1 keV 6 MeV, unless otherwise stated.

[‡] D from $\gamma(\theta)$ data in [2014Oz03](#), but Mult=E1 was assumed for all transitions, unless otherwise stated.

[#] From [2008BoZK](#).

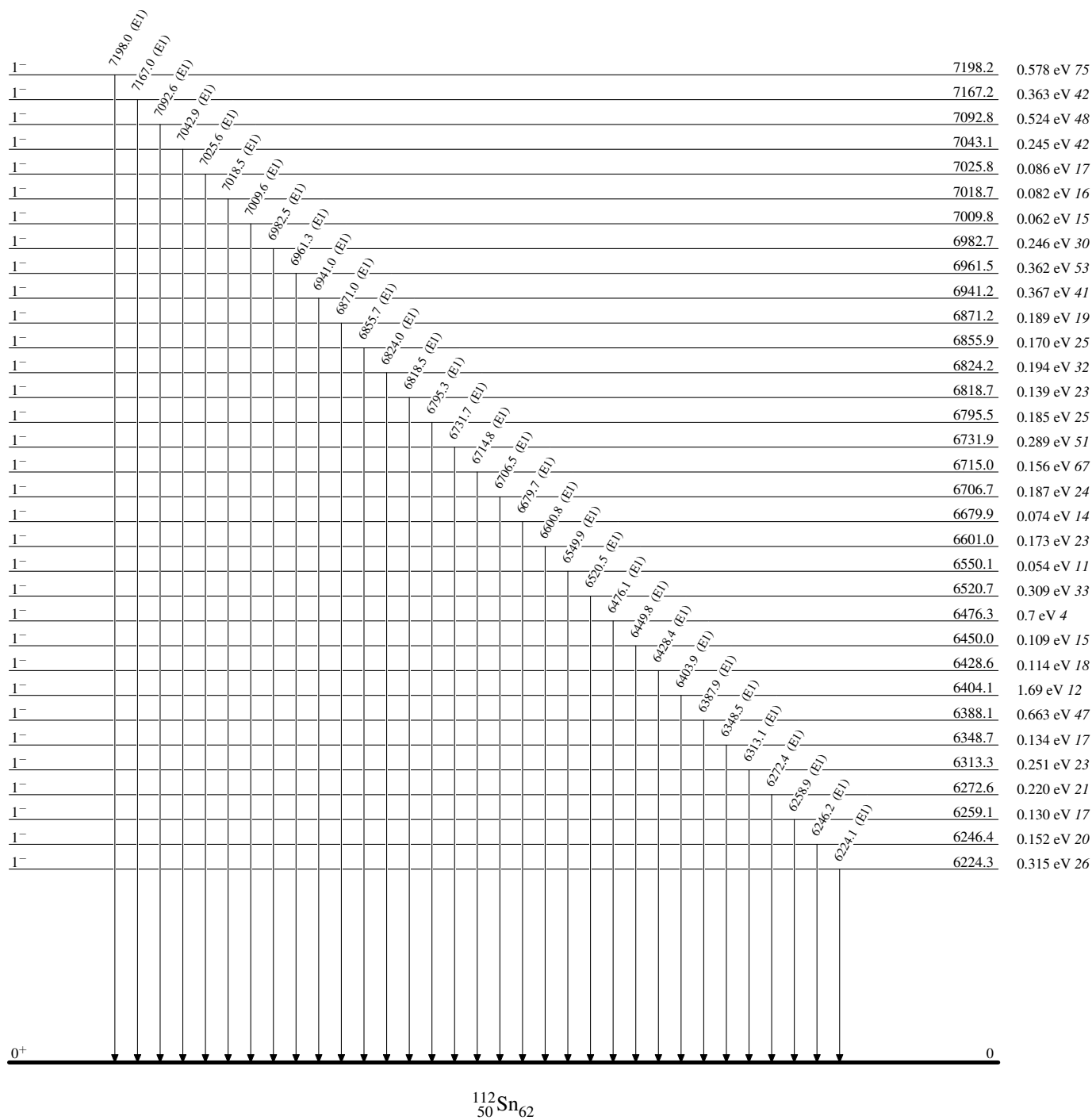
$^{112}\text{Sn}(\gamma, \gamma')$ 2014Oz03,2006Py01,2008BoZK

Level Scheme



$^{112}\text{Sn}(\gamma,\gamma')$ 2014Oz03,2006Py01,2008BoZK

Level Scheme (continued)



$^{112}\text{Sn}(\gamma,\gamma')$ 2014Oz03,2006Py01,2008BoZK

Level Scheme (continued)

