ERRATUM

LIFETIMES OF LEVELS IN ^{71}Ge

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The tables referred to in this paper were omitted. They should have appeared as in the following.

Table 1. Level energies, gamma-ray energies and branching ratios in ^{71}Ge .

Level (keV)	γ -ray (keV)	Branching ratios	
		Present work	Ref. 6
175.0	175.0 ± 0.01	100	100
499.8	324.4 ± 0.11	2.9 ± 1.5	—
	499.8 ± 0.01	97.1 ± 4.7	100
525.1	326.7 ± 0.01	90.3 ± 0.5	89.0 ± 2.7
	350.1 ± 0.01	9.7 ± 0.1	11.0 ± 0.7
589.8	64.7 ± 0.10	4.3 ± 0.3	—
	391.3 ± 0.01	91.3 ± 0.7	100
	414.7 ± 0.06	4.5 ± 0.02	—
708.0	533.0 ± 0.09	5.1 ± 0.1	2.8 ± 1.0
	708.0 ± 0.01	94.9 ± 1.3	97.2 ± 4.8
747.1	247.3 ± 0.01	30.8 ± 0.4	35.7 ± 2.1
	572.1 ± 0.03	46.8 ± 0.8	42.0 ± 1.7
	747.0 ± 0.03	22.4 ± 0.6	22.3 ± 1.9
808.0	308.2 ± 0.02	31.8 ± 0.9	35.7 ± 1.6
	633.0 ± 0.07	24.8 ± 1.1	20.9 ± 1.6
	808.0 ± 0.04	43.4 ± 0.6	43.5 ± 3.9
831.1	241.5 ± 0.20	1.9 ± 0.1	1.6 ± 0.2
	306.0 ± 0.02	18.6 ± 0.3	18.3 ± 1.3
	331.3 ± 0.02	15.4 ± 0.3	16.0 ± 0.8
	831.1 ± 0.01	64.1 ± 0.8	64.1 ± 1.3
1026.6	279.6 ± 0.06	11.1 ± 0.6	12.4 ± 2.3
	526.6 ± 0.02	58.1 ± 0.9	55.2 ± 6.4
	851.6 ± 0.14	10.5 ± 1.0	7.4 ± 4.6
	1026.6 ± 0.11	20.3 ± 1.1	19.5 ± 0.8
1096.0	921.0 ± 0.03	100	100

Table 1. (*Continued*)

Level (keV)	γ -ray (keV)	Branching ratios	
		Present work	Ref. 6
1212.2	465.2 ± 0.16	7.8 ± 0.6	8.1 ± 0.6
	504.2 ± 0.08	14.6 ± 0.8	14.4 ± 0.4
	712.5 ± 0.07	31.4 ± 1.5	30.7 ± 2.5
	1037.3 ± 0.01	21.3 ± 3.1	21.5 ± 2.2
	1212.2 ± 0.07	24.9 ± 1.3	25.2 ± 0.9
1288.6	580.4 ± 0.16	12.9 ± 1.8	9.9 ± 2.7
	788.7 ± 0.04	87.1 ± 4.1	90.1 ± 2.7
1298.6	798.8 ± 0.10	8.3 ± 1.2	8.6 ± 0.8
	1298.6 ± 0.03	91.7 ± 2.4	91.4 ± 0.8
1348.8	517.6 ± 0.04	61.9 ± 1.8	65.8
	823.7 ± 0.11	20.1 ± 0.3	21.0
	1348.8 ± 0.15	18.0 ± 0.3	13.2
1377.8	281.8 ± 0.08	12.0 ± 0.8	—
	630.8 ± 0.07	10.0 ± 1.2	—
	788.5 ± 0.04	54.0 ± 2.4	—
	1376.8 ± 0.15	24.0 ± 2.0	100
1406.5	659.1 ± 0.10	51.5 ± 2.7	50
	906.3 ± 0.12	9.2 ± 2.7	< 10
	1231.6 ± 0.20	39.3 ± 3.1	40
1414.4	914.6 ± 0.12	16.0 ± 2.4	12.5
	1239.1 ± 0.14	30.5 ± 3.3	25
	1414.4 ± 0.10	53.5 ± 6.0	62.5
1422.1	675.0 ± 0.21	20.4 ± 3.7	—
	1247.1 ± 0.13	79.6 ± 2.9	—
1542.0	1016.9 ± 0.04	92.7 ± 1.9	—
	1542.0 ± 0.01	7.3 ± 0.8	—
1558.8	1033.7 ± 0.05	87.1 ± 4.4	90.9
	1059.0 ± 0.11	12.9 ± 2.0	9.1
1566.1	975.5 ± 0.07	100	100
1743.3	935.6 ± 0.08	38.5 ± 4.1	50
	996.2 ± 0.12	16.1 ± 3.2	—
	1743.3 ± 0.01	45.3 ± 2.3	50

Table 2. $F(\tau)$ values and mean lifetimes of the levels in ^{71}Ge .

Level (keV)	γ -ray (keV)	$F(\tau)$, present work		Lifetimes	
		$F(\tau)$	Mean $F(\tau)$	Present work (fs)	Ref. 5 (ps)
708.0	708.0	0.082 ± 0.01	0.082 ± 0.01	662^{+86}_{-74}	< 15.4
747.0	747.0	0.13 ± 0.02	0.13 ± 0.01	406^{+82}_{-60}	
808.0	633.0	0.17 ± 0.03	0.17 ± 0.03	298^{+72}_{-52}	
831.1	831.1	0.086 ± 0.01	0.086 ± 0.01	630^{+58}_{-52}	
1026.6	526.6 1026.6	0.073 ± 0.02 0.086 ± 0.02	0.079 ± 0.02	678^{+210}_{-132}	> 1.6
1096.0	921.0	0.077 ± 0.01	0.077 ± 0.01	708^{+118}_{-80}	0.90 ± 0.20
1212.2	1212.2	0.12 ± 0.02	0.12 ± 0.02	440^{+78}_{-60}	> 1.7
1298.6	1298.6	0.12 ± 0.02	0.12 ± 0.02	440^{+78}_{-60}	0.61 ± 0.13
1348.8	517.6	0.11 ± 0.02	0.11 ± 0.02	482^{+118}_{-80}	0.66 ± 0.16
1377.8	788.5 1376.8	0.16 ± 0.04 0.16 ± 0.04	0.16 ± 0.04	308^{+112}_{-68}	
1406.1	659.1 1231.6	0.048 ± 0.01 0.04 ± 0.01	0.044 ± 0.01	1240^{+300}_{-214}	
1414.4	1239.1	0.11 ± 0.01	0.11 ± 0.01	482^{+50}_{-56}	
1422.1	1247.1	0.09 ± 0.01	0.09 ± 0.01	630^{+20}_{-16}	
1558.8	1033.7	0.15 ± 0.02	0.15 ± 0.02	342^{+58}_{-42}	
1566.1	975.5	0.44 ± 0.02	0.44 ± 0.02	88^{+22}_{-6}	
1743.3	935.6 1743.3	0.42 ± 0.07 0.38 ± 0.07	0.40 ± 0.07	94^{+16}_{-13}	0.61 ± 0.21

Table 3. The results of the angular distribution measurements in ^{71}Ge .

Transitions	γ -ray (keV)	$J_i^\pi \rightarrow J_f^\pi$	A_2	A_4	Multipole mixing ratios	
					Present work	Ref. 2
525.1 $\rightarrow$ 198.4	326.7	$\frac{5}{2}^+ \rightarrow \frac{9}{2}^+$	-0.009(5)	0.010(5)	$0.10^{+0.05}_{-0.02}$	—
589.8 $\rightarrow$ 198.4	391.3	$\frac{7}{2}^+ \rightarrow \frac{9}{2}^+$	0.004(6)	-0.017(6)	$-0.11^{+0.03}_{-0.02}$	—
708.0 $\rightarrow$ 0	708.0	$\frac{3}{2}^- \rightarrow \frac{1}{2}^-$	-0.115(12)	0.060(12)	$-0.61^{+0.78}_{-2.2}$	—
747.1 $\rightarrow$ 175.0	572.1	$\frac{5}{2}^- \rightarrow \frac{5}{2}^-$	0.026(22)	-0.027(22)	$-0.3^{+0.05}_{-0.08}$	—
831.1 $\rightarrow$ 525.1	306.0	$\frac{3}{2}^- \rightarrow \frac{5}{2}^+$	-0.003(20)	-0.016(20)	$0.1^{+0.05}_{-0.02}$ or $-11.7^{+3.4}_{-4.4}$	— —
831.1 $\rightarrow$ 0	831.1	$\frac{3}{2}^- \rightarrow \frac{1}{2}^-$	-0.114(13)	0.032(13)	-0.5 ± 0.1	—
1026.6 $\rightarrow$ 499.8	526.6	$\frac{5}{2}^- \rightarrow \frac{3}{2}^-$	-0.173(13)	-0.006(13)	$-0.75^{+0.14}_{-0.12}$	-0.16 ± 0.03
1026.6 $\rightarrow$ 0	1026.6	$\frac{5}{2}^- \rightarrow \frac{1}{2}^-$	0.359(75)	-0.237(75)	12.5 ± 0.25	$E2$
1096.0 $\rightarrow$ 175.0	921.0	$\frac{3}{2}^- \rightarrow \frac{5}{2}^-$	-0.326(25)	0.093(25)	$-1.0^{+0.57}_{-0.80}$	0.36 ± 0.14 or $3.7 \leq \delta \leq \infty$
1212.2 $\rightarrow$ 499.8	712.5	$\frac{5}{2}^- \rightarrow \frac{3}{2}^-$	0.037(56)	-0.060(64)	$-0.49^{+0.09}_{-0.26}$ -1.54 ± 0.2	$-0.19^{+0.11}_{-0.09}$ or $-1.8^{+0.5}_{-0.4}$
1298.6 $\rightarrow$ 0	1298.6	$\frac{3}{2}^- \rightarrow \frac{1}{2}^-$	-0.154(20)	0.090(30)	$-0.61^{0.74}_{-1.8}$	-1.88 ± 0.11 or 0.04 ± 0.03
1377.8 $\rightarrow$ 1096.0	281.8	$\frac{5}{2}^- \rightarrow \frac{3}{2}^-$	0.103(950)	0.005(950)	2.9 ± 0.1	—
1406.5 $\rightarrow$ 175.0	1231.6	$\frac{5}{2}^- \rightarrow \frac{5}{2}^-$	0.078(98)	0.011(103)	$0.49^{+0.15}_{-0.11}$	—
1406.5 $\rightarrow$ 499.8	906.3	$\frac{5}{2}^- \rightarrow \frac{3}{2}^-$	-0.095(128)	0.002(139)	-0.2 ± 0.1	—
1422.1 $\rightarrow$ 175.0	1247.1	$\frac{9}{2}^- \rightarrow \frac{5}{2}^-$	0.230(63)	-0.009(63)	0.1 ± 0.07	—
1558.8 $\rightarrow$ 525.1	1033.7	$\frac{5}{2}^+ \rightarrow \frac{5}{2}^+$	0.072(39)	0.005(44)	$0.48^{+0.26}_{-0.18}$	$-0.26 < \delta < 3.0$
1566.1 $\rightarrow$ 589.8	975.5	$\frac{9}{2}^+ \rightarrow \frac{7}{2}^+$	-0.177(98)	-0.004(108)	$-1.54^{+0.22}_{-0.16}$	—
1743.3 $\rightarrow$ 808.0	935.6	$\frac{3}{2}^- \rightarrow \frac{1}{2}^-$	-0.055(129)	0.005(143)	$-0.5^{+0.4}_{-0.8}$	—
1743.3 $\rightarrow$ 0	1743.3	$\frac{3}{2}^- \rightarrow \frac{1}{2}^-$	0.015(30)	-0.002(31)	$-11.59^{+4.3}_{-3.5}$	—

Table 4. Electromagnetic transition rates in ^{71}Ge .

Level (keV)	γ -ray (keV)	Multipole mixing ratios	Reduced transition probabilities (w.u.)			
			Present work		IBFM [1]	
			B (E2)	B (M1) $\times 10^{-3}$	B (E2)	B (M1) $\times 10^{-3}$
708.0	708.0	$-0.61^{+0.8}_{-2.2}$	101.9 ± 26.9	93 ± 69	—	—
747.0	572.1	-0.3 ± 0.1	72.7 ± 31.8	180 ± 33	—	—
831.1	306.0	$0.1^{+0.05}_{-0.02}$	50.3 ± 35	320 ± 28	—	—
	831.1	-0.5 ± 0.1	24.0 ± 8	45 ± 6	—	—
1026.6	526.6	$-0.75^{+0.14}_{-0.12}$	105.1 ± 20	120 ± 35	53.8	150
	1026.6	1.5 ± 0.3	8.5 ± 2.4	3 ± 1	2.1	—
1096.0	921.0	$-1.0^{+0.6}_{-0.8}$	80.2 ± 56.6	46 ± 32	20	6
1212.2	712.5	$-0.5^{+0.1}_{-0.3}$	35.1 ± 22.1	50 ± 14	—	—
1377.8	282.0	0.03 ± 0.1	10.1 ± 3.6	540 ± 200	—	—
	630.8	$0.5^{+0.4}_{-0.3}$	30.4 ± 22.5	33 ± 15	—	—
1406.5	906.3	-0.2 ± 0.1	0.2 ± 0.2	3 ± 1	—	—
	1231.6	$0.5^{+0.2}_{-0.1}$	1.0 ± 0.5	4 ± 1	—	—
1422.1	1247.1	0.1 ± 0.05	0.3 ± 0.2	27 ± 2	—	—
1558.8	1033.7	$0.5^{+0.2}_{-0.1}$	18.9 ± 9	60 ± 14	7	75
1743.3	935.6	$0.5^{+0.3}_{-0.2}$	53.5 ± 28	130 ± 66	—	—
	1743.3	$-11.6^{+4.3}_{-3.5}$	13.9 ± 2.3	0.2 ± 0.2	—	—