

FIG. 2. γ -ray coincidence spectra with gates set on the (a) 1428-keV, (b) 674-keV, (c) 766.6-keV and (d) 389.8-keV transitions. The insets show the higher-energy part of the spectra. The energies marked by the asterisks are newly identified γ rays, and the energies marked by C are contaminants. The transitions for which the earlier energies are updated in this Erratum are marked by underlines.

coincidence information on placements. This Erratum, therefore, corrects the level scheme in Fig. 1, γ -ray coincidence spectra in Figs. 2–4, and Table I in the previously published paper by presenting new compilations with the actually measured γ -ray energies.

The changes from the published paper are in all cases small, and the physics conclusions arrived at previously are not changed.

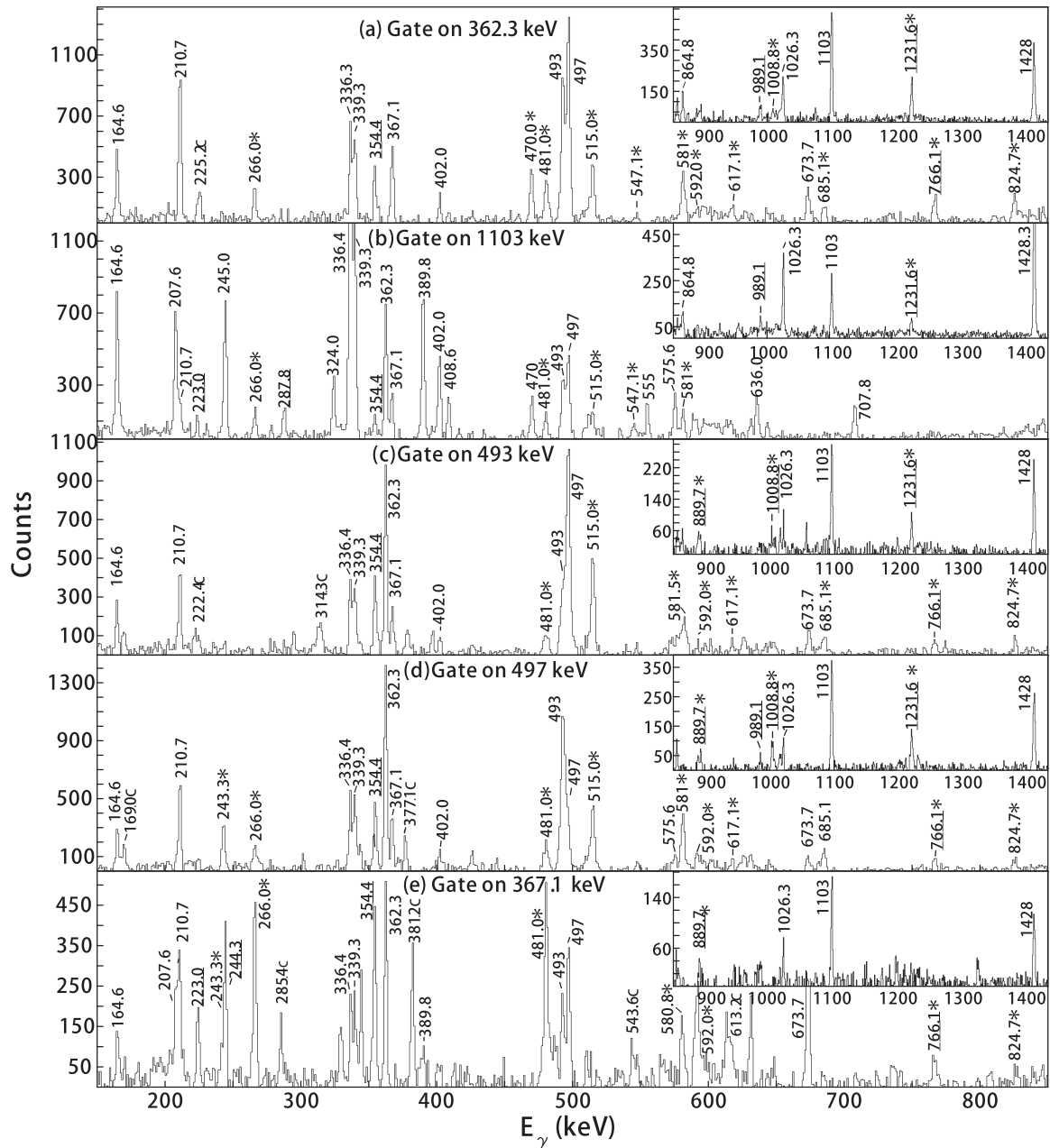


FIG. 3. γ -ray coincidence spectra with gates set on (a) 362.3-keV, (b) 1103-keV, (c) 493-keV, (d) 497-keV, and (e) 367.1-keV transitions. The insets show the higher-energy part of the spectra. The energies marked by the asterisks are newly identified γ rays, and the energies marked by C are contaminants.

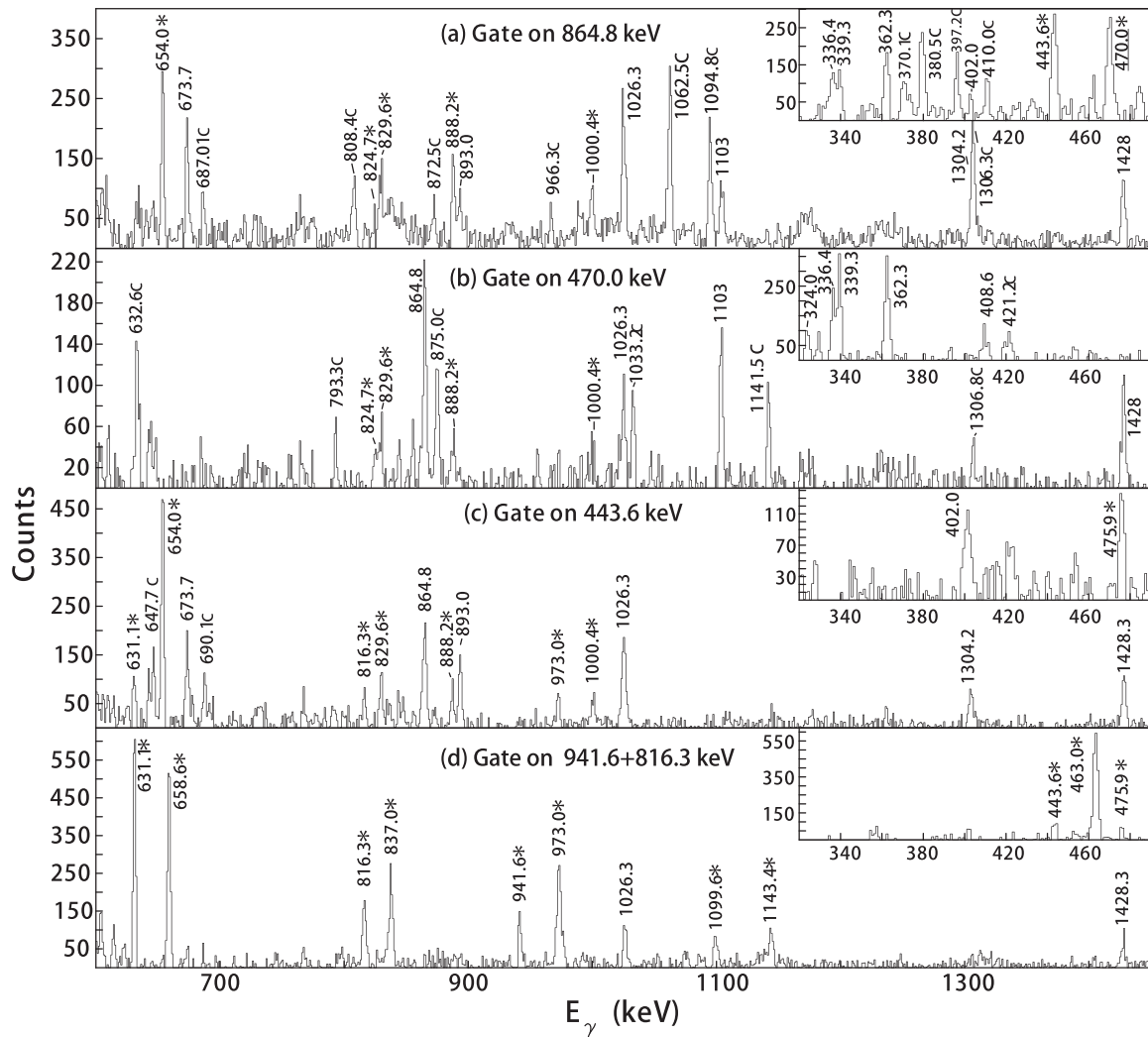


FIG. 4. γ -ray coincidence spectra with gates set on (a) 864.8 keV, (b) 469.7 keV, (c) 443.6 keV, and (d) 941.6+816.3 keV. The insets show the lower-energy part of the spectra. The energies marked by the asterisks are newly identified γ rays, and the energies marked by C are contaminants.

TABLE I. Corrected γ -ray energies, corrected initial and final level energies, intensities, DCO ratio, the initial and final level spin parities of ^{109}In .

E_γ (keV) ^{ac}	$E_i \rightarrow E_f$ ^c	I_γ (%) ^b	$R_{\text{DCO}}(D)$ ^c	$R_{\text{DCO}}(Q)$ ^d	$I_i^\pi \rightarrow I_f^\pi$	Band
89.0	2958.0 \rightarrow 2868.5	10(1)			19/2 ⁻ \rightarrow 17/2 ⁻	
110.7	3202.5 \rightarrow 3091.8	7(2)			21/2 ⁻ \rightarrow 19/2 ⁻	2
164.6	3122.5 \rightarrow 2958.0	38(2)	1.07(15)		21/2 ⁻ \rightarrow 19/2 ⁻	1
207.6	3410.2 \rightarrow 3202.5	38(2)			23/2 ⁻ \rightarrow 21/2 ⁻	2
210.7	4564.9 \rightarrow 4354.3	20(1)			25/2 ⁻ \rightarrow 23/2 ⁻	5
223.0	3091.8 \rightarrow 2868.5	5.6(4)	1.18(30)		19/2 ⁻ \rightarrow 17/2 ⁻	
243.3	6005.0 \rightarrow 5761.7	7(1)	1.02(10)		31/2 ⁻ \rightarrow 29/2 ⁻	6
244.3	3202.5 \rightarrow 2958.0	31(1)	1.30(13)		21/2 ⁻ \rightarrow 19/2 ⁻	2 \rightarrow 1
259.9	2532.1 \rightarrow 2272.5	3.9(6)			15/2 ⁻ \rightarrow 13/2 ⁻	
266.0	6271.1 \rightarrow 6005.0	6.8(5)	1.17(13)		33/2 ⁻ \rightarrow 31/2 ⁻	6
287.8	3410.2 \rightarrow 3122.5	9.2(6)	0.82(16)		23/2 ⁻ \rightarrow 21/2 ⁻	2 \rightarrow 1
324.0	4832.0 \rightarrow 4507.9	16.2(9)	1.32(43)		29/2 ⁻ \rightarrow 27/2 ⁻	2
336.4	2868.5 \rightarrow 2532.1	82(3)	0.90(6)		17/2 ⁻ \rightarrow 15/2 ⁻	
339.3	3461.7 \rightarrow 3122.5	29(1)	1.09(8)		23/2 ⁻ \rightarrow 21/2 ⁻	1
354.4	6271.1 \rightarrow 5916.8	5.8(4)	1.05(13)		33/2 ⁻ \rightarrow 31/2 ⁻	6 \rightarrow 5
362.3	4927.2 \rightarrow 4564.9	22(2)		1.05(14)	27/2 ⁻ \rightarrow 25/2 ⁻	5
367.1	6638.2 \rightarrow 6271.1	9(1)	0.99(14)		35/2 ⁻ \rightarrow 33/2 ⁻	6
367.7	4167.7 \rightarrow 3800.0	1(1)			(27/2 ⁻) \rightarrow 25/2 ⁻	
389.8	3800.0 \rightarrow 3410.2	35(2)	1.06(15)		25/2 ⁻ \rightarrow 23/2 ⁻	2
396.0	4832.0 \rightarrow 4436.0	3.8(3)			29/2 ⁻ \rightarrow 27/2 ⁻	2 \rightarrow 3
402.0	1428.3 \rightarrow 1026.3	62(3)	0.61(17)		13/2 ⁺ \rightarrow 11/2 ⁺	
408.6	5240.6 \rightarrow 4832.0	13.6(8)	1.14(11)		31/2 ⁻ \rightarrow 29/2 ⁻	2
421.2	2321.4 \rightarrow 1900.0	9(3)	1.28(44)		31/2 ⁻ \rightarrow 29/2 ⁻	
443.6	4743.0 \rightarrow 4299.4	10.9(7)		0.82(17)	25/2 ⁽⁺⁾ \rightarrow 21/2 ⁽⁺⁾	7
463.0	5218.9 \rightarrow 4755.9	7.2(5)		1.07(16)	27/2 ⁽⁺⁾ \rightarrow 23/2 ⁽⁺⁾	8
470.0	5397.1 \rightarrow 4927.2	9(3)	0.64(8)		29/2 ⁽⁺⁾ \rightarrow 27/2 ⁻	7 \rightarrow 5
470.2	4507.9 \rightarrow 4037.4	3(2)	1.20(31)		27/2 ⁻ \rightarrow 25/2 ⁻	2 \rightarrow 1
475.9	5218.9 \rightarrow 4743.0	2(1)		0.60(10)	27/2 ⁽⁺⁾ \rightarrow 25/2 ⁽⁺⁾	8 \rightarrow 7
479.8	5657.9 \rightarrow 5178.1	3(1)	0.81(17)		31/2 ⁻ \rightarrow 29/2 ⁻	4
481.0	7119.2 \rightarrow 6638.2	9(1)	0.85(7)		37/2 ⁻ \rightarrow 35/2 ⁻	6
493.0	5916.8 \rightarrow 5424.1	16.1(8)			31/2 ⁻ \rightarrow 29/2 ⁻	5
493.0	6924.9 \rightarrow 6431.9	8(1)			35/2 ⁻ \rightarrow 33/2 ⁻	5
497.0	7616.2 \rightarrow 7119.2	7(1)			39/2 ⁻ \rightarrow 37/2 ⁻	6
497.1	5424.1 \rightarrow 4927.2	16(2)			29/2 ⁻ \rightarrow 27/2 ⁻	5
515.0	6431.9 \rightarrow 5916.8	10.3(7)	0.54(8)		33/2 ⁻ \rightarrow 31/2 ⁻	5
547.1	2868.5 \rightarrow 2321.4	17.5(10)	0.90(17)		17/2 ⁻ \rightarrow (15/2 ⁺)	
555.0	5795.6 \rightarrow 5240.6	4.7(4)	1.10(14)		33/2 ⁻ \rightarrow 31/2 ⁻	2
555.8	5580.5 \rightarrow 5024.7	4.8(8)	0.85(20)		31/2 ⁻ \rightarrow 29/2 ⁻	3
575.6	4037.4 \rightarrow 3461.7	15.1(9)	0.90(7)		25/2 ⁻ \rightarrow 23/2 ⁻	1
580.8	6005.0 \rightarrow 5424.1	6(1)	0.81(7)		31/2 ⁻ \rightarrow 29/2 ⁻	6 \rightarrow 5
581.5	7506.4 \rightarrow 6924.9	5.0(10)	1.32(15)		37/2 ⁻ \rightarrow 35/2 ⁻	5
588.7	5024.7 \rightarrow 4436.0	11.6(7)	0.95(14)		29/2 ⁻ \rightarrow 27/2 ⁻	3
592.0	8208.2 \rightarrow 7616.2	4.4(4)			(41/2 ⁻) \rightarrow 39/2 ⁻	6
614.6	6410.2 \rightarrow 5795.6	4.0(4)	0.58(10)		35/2 ⁻ \rightarrow 33/2 ⁻	2
617.1	8825.3 \rightarrow 8208.2	3(1)			(43/2 ⁻) \rightarrow (41/2 ⁻)	6
628.5	4428.5 \rightarrow 3800.0	13.9(9)	0.70(7)		27/2 ⁻ \rightarrow 25/2 ⁻	4 \rightarrow 2
631.1	5850.0 \rightarrow 5218.9	7.8(9)		1.04(11)	31/2 ⁽⁺⁾ \rightarrow 27/2 ⁽⁺⁾	8
631.2	2532.1 \rightarrow 1900.0	6.0(9)			15/2 ⁻ \rightarrow (13/2 ⁺)	
636.0	4436.0 \rightarrow 3800.0	17.5(10)	0.69(5)		27/2 ⁻ \rightarrow 25/2 ⁻	3 \rightarrow 2
654.0	5397.1 \rightarrow 4743.0	8.6(6)		0.83(10)	29/2 ⁽⁺⁾ \rightarrow 25/2 ⁽⁺⁾	7
658.6	4755.9 \rightarrow 4097.3	3.2(3)		0.93(9)	23/2 ⁽⁺⁾ \rightarrow 19/2 ⁽⁺⁾	8
661.4	6319.3 \rightarrow 5657.9	3.2(5)	0.59(32)		33/2 ⁻ \rightarrow 31/2 ⁻	4
673.5	2101.9 \rightarrow 1428.3	188(7)			19/2 ⁺ \rightarrow 13/2 ⁺	
673.7	2102.0 \rightarrow 1428.3	40(2)	1.62(23)		17/2 ⁺ \rightarrow 13/2 ⁺	
685.1	8191.5 \rightarrow 7506.4	2.2(3)	0.71(33)		(39/2 ⁻) \rightarrow 37/2 ⁻	5
707.8	4507.9 \rightarrow 3800.0	12.8(8)	0.95(8)		27/2 ⁻ \rightarrow 25/2 ⁻	2

TABLE I. (Continued.)

E_γ (keV) ^{ac}	$E_i \rightarrow E_f$ ^e	I_γ (%) ^b	$R_{\text{DCO}}(D)$ ^c	$R_{\text{DCO}}(Q)$ ^d	$I_i^\pi \rightarrow I_f^\pi$	Band
749.6	5178.1 \rightarrow 4428.5	6.5(5)	0.50(9)		29/2 ⁻ \rightarrow 27/2 ⁻	4
766.1	2868.5 \rightarrow 2102.0	13.0(8)		1.45(35)	17/2 ⁻ \rightarrow 17/2 ⁺	
816.3	6666.3 \rightarrow 5850.0	4.1(4)		1.19(16)	35/2 ⁽⁺⁾ \rightarrow 31/2 ⁽⁺⁾	8
824.7	4354.3 \rightarrow 3529.6	8.5(6)	0.84(22)		23/2 ⁻ \rightarrow (21/2)	
829.6	7091.5 \rightarrow 6261.9	3.2(5)		0.96(29)	37/2 ⁽⁺⁾ \rightarrow 33/2 ⁽⁺⁾	7
837.0	3155.7 \rightarrow 2318.7	2.7(7)		0.93(7)	15/2 ⁽⁺⁾ \rightarrow 11/2 ⁽⁺⁾	8
845.3	2272.5 \rightarrow 1428.3	1(1)			13/2 ⁻ \rightarrow 13/2 ⁺	
856.0	2958.0 \rightarrow 2101.9	14(2)			19/2 ⁻ \rightarrow 19/2 ⁺	
864.8	6261.9 \rightarrow 5397.1	11.6(7)		0.80(7)	33/2 ⁽⁺⁾ \rightarrow 29/2 ⁽⁺⁾	7
873.4	1900.0 \rightarrow 1026.3	12.5(8)	1.16(36)		(13/2 ⁺) \rightarrow 11/2 ⁺	
888.2	7979.7 \rightarrow 7091.5	4.3(6)		0.78(17)	41/2 ⁽⁺⁾ \rightarrow 37/2 ⁽⁺⁾	7
889.7	4927.2 \rightarrow 4037.4	5.9(5)			27/2 ⁻ \rightarrow 25/2 ⁻	5 \rightarrow 1
893.0	2995.1 \rightarrow 2102.0	20(2)		0.46(8)	19/2 \rightarrow 17/2 ⁺	
893.2	2321.4 \rightarrow 1428.3	8(3)			(15/2 ⁺) \rightarrow 13/2 ⁺	
941.6	4097.3 \rightarrow 3155.7	2.6(3)		1.10(13)	19/2 ⁽⁺⁾ \rightarrow 15/2 ⁽⁺⁾	8
973.0	7639.3 \rightarrow 6666.3	4.5(5)		0.98(13)	39/2 ⁽⁺⁾ \rightarrow 35/2 ⁽⁺⁾	8
989.1	5916.8 \rightarrow 4927.2	8.6(7)	1.30(41)		31/2 ⁻ \rightarrow 27/2 ⁻	5
989.9	3091.8 \rightarrow 2101.9	5.0(5)			19/2 ⁻ \rightarrow 19/2 ⁺	
1000.4	8980.1 \rightarrow 7979.7	0.4(3)			(45/2 ⁺) \rightarrow 41/2 ⁽⁺⁾	7
1008.8	6431.9 \rightarrow 5424.1	2.6(3)			33/2 ⁻ \rightarrow 29/2 ⁻	5
1026.3	1026.3 \rightarrow 0	84(3)	0.59(7)		11/2 ⁺ \rightarrow 9/2 ⁺	
1047.3	4507.9 \rightarrow 3461.7	2.4(3)			27/2 ⁻ \rightarrow 23/2 ⁻	2 \rightarrow 1
1099.6	2318.7 \rightarrow 1219.1	1.3(2)			11/2 ⁽⁺⁾ \rightarrow (7/2 ⁺)	8
1100.5	3202.5 \rightarrow 2101.9	18(1)			21/2 ⁻ \rightarrow 19/2 ⁺	
1103.3	4564.9 \rightarrow 3461.7	2(2)			25/2 ⁻ \rightarrow 23/2 ⁻	5 \rightarrow 1
1103.9	2532.1 \rightarrow 1428.3	98(3)			15/2 ⁻ \rightarrow 13/2 ⁺	
1143.4	8782.7 \rightarrow 7639.3	1.2(6)		1.00(26)	43/2 ⁽⁺⁾ \rightarrow 39/2 ⁽⁺⁾	8
1231.6	4354.3 \rightarrow 3122.5	6.8(5)	0.51(12)		23/2 ⁻ \rightarrow 21/2 ⁻	5 \rightarrow 1
1246.0	2272.5 \rightarrow 1026.3	7.7(6)	0.57(25)		13/2 ⁻ \rightarrow 11/2 ⁺	
1304.2	4299.4 \rightarrow 2995.1	2.1(3)		0.54(11)	4299.4 \rightarrow 2995.1	
1428.0	3529.6 \rightarrow 2102.0	4.1(5)			(21/2) \rightarrow 17/2 ⁺	
1428.3	1428.3 \rightarrow 0	273(16)			13/2 ⁺ \rightarrow 9/2 ⁺	

^aUncertainties are between 0.2 and 0.8 keV depending upon their intensity.

^bIntensities are normalized to the doublet 1103-keV transitions with $I_\gamma = 100$.

^cDCO ratios gated by dipole transitions.

^dDCO ratios gated by quadrupole transitions.

^eThe energies which are updated in this Erratum are marked in bold.