Erratum: High-spin states in ^{152}Gd [Phys. Rev. C 72, 024317 (2005)]

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In the original article, we determined the level energies through the energies of strong transitions. The energies of the relatively weak and linking transitions were deduced to be the differences between the initial and the final states, resulting in a χ^2 of almost zero. In this Erratum, the energies of all γ transitions have been changed to their measured values from the fitting of our data. The energies of all levels are obtained using a least-squares fit to the γ energies. The corrected versions of level scheme (Fig. 1), typical prompt γ - γ coincidence spectra (Fig. 2), and table of dominant configurations (Table I), are shown below.

The conclusions of the original article are not affected.

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FIG. 2. Coincident γ -ray spectra with gating on (a) 643.5 keV transition and (b) 385.8 keV transition. The transition for which the earlier energy is updated in this Erratum is marked by the asterisk.

TABLE I. γ -ray energies, excitation energies, relative γ -ray intensities, and DCO ratios in ^{152}Gd . The energies which are updated in this Erratum are marked in bold.

E_γ (keV)	E_i (keV)	E_f (keV)	Int. (%)	DCO ratio	Assignment
271.1	615.5	344.3			$0^+ \rightarrow 2^+$
314.7	930.3	615.5			$2^+ \rightarrow 0^+$
344.3	344.3	0	100	1.69(0.10)	$2^+ \rightarrow 0^+$
351.8	1282.0	930.3	3.7(0.2)	1.69(0.33)	$4^+ \rightarrow 2^+$
353.3	2890.6	2537.3			$(11^+) \rightarrow (9^+)$
385.8	1667.7	1282.0	5.7(0.2)	1.72(0.27)	$6^+ \rightarrow 4^+$
411.1	755.5	344.3	83.5(3.1)	1.50(0.09)	$4^+ \rightarrow 2^+$
439.2	3938.8	3499.5			$15^- \rightarrow 14^+$
439.9	1667.7	1227.6			$6^+ \rightarrow 6^+$
451.1	2331.5	1880.5			$9^- \rightarrow 7^-$
451.1	3699.4	3248.3	1.3(0.1)		$14^+ \rightarrow 12^+$
454.6	3338.4	2884.0			$13^- \rightarrow 12^+$
456.0	3346.6	2890.6	6.4(0.5)	1.92(0.18)	$(13^+) \rightarrow (11^+)$
470.7	2138.4	1667.7	4.9(0.4)	1.97(0.50)	$8^+ \rightarrow 6^+$
472.0	1227.6	755.5	65.0(5.0)	1.50(0.08)	$6^+ \rightarrow 4^+$
483.2	2814.7	2331.5	3.8(0.3)	1.33(0.19)	$11^- \rightarrow 9^-$
495.9	4195.3	3699.4	1.5(0.1)	1.34(0.45)	$16^+ \rightarrow 14^+$
514.1	2814.7	2300.6	9.1(0.6)	1.07(0.09)	$11^- \rightarrow 10^+$
519.4	1747.1	1227.6	48.7(3.3)	1.31(0.15)	$8^+ \rightarrow 6^+$
523.6	3338.4	2814.7	10.1(0.7)	1.48(0.24)	$13^- \rightarrow 11^-$
526.6	1282.0	755.5	2.2(0.2)	0.63(0.29)	$4^+ \rightarrow 4^+$
552.4	2690.8	2138.4	3.3(0.2)	>1	$10^+ \rightarrow 8^+$
553.6	2300.6	1747.1	37.2(2.2)	1.57(0.19)	$10^+ \rightarrow 8^+$
557.5	3248.3	2690.8	1.7(0.1)	>1	$12^+ \rightarrow 10^+$
583.4	2884.0	2300.6	16.8(0.8)	1.65(0.67)	$12^+ \rightarrow 10^+$
584.2	2331.5	1747.1	6.8(0.3)	0.74(0.35)	$9^- \rightarrow 8^+$
586.2	930.3	344.3	1.7(0.1)		$2^+ \rightarrow 2^+$
590.0	2890.6	2300.6	2.2(0.1)	1.51(0.24)	$(11^+) \rightarrow 10^+$
600.5	3938.8	3338.4	8.7(1.3)	1.54(0.18)	$15^- \rightarrow 13^-$
604.8	4747.8	4143.0	1.3(0.1)	1.70(0.43)	$(18^+) \rightarrow 16^+$
615.4	3499.5	2884.0	6.9(1.0)	1.55(0.25)	$14^+ \rightarrow 12^+$
628.9	3975.5	3346.6	3.2(0.1)	>1	$(15^+) \rightarrow (13^+)$
639.7	5387.5	4747.8	1.0(0.1)	1.49(0.41)	$(20^+) \rightarrow (18^+)$
643.5	4143.0	3499.5	3.1(0.1)	1.62(0.90)	$16^+ \rightarrow 14^+$
652.9	1880.5	1227.6	3.8(0.1)	0.94(0.23)	$7^- \rightarrow 6^+$
670.6	4609.4	3938.8	7.9(0.2)	1.60(0.32)	$17^- \rightarrow 15^-$
687.5	4663.0	3975.5	1.3(0.1)	>1	$(17^+) \rightarrow (15^+)$
693.5	4836.5	4143.0	1.3(0.1)	1.58(0.44)	$18^+ \rightarrow 16^+$
714.3	5550.8	4836.5	0.7(0.1)	>1	$20^+ \rightarrow 18^+$
715.1	1470.6	755.5			$5^- \rightarrow 4^+$
725.0	5334.4	4609.4	1.8(0.1)	1.23(0.20)	$19^- \rightarrow 17^-$
747.5	6081.9	5334.4	0.5(0.1)	1.32(0.56)	$21^- \rightarrow 19^-$
778.9	1123.2	344.3			$3^- \rightarrow 2^+$
790.1	2537.3	1747.1	2.1(0.1)		$(9^+) \rightarrow 8^+$