Erratum: Chirality of ^{135}Nd reexamined: Evidence for multiple chiral doublet bands [Phys. Rev. C **100**, 024314 (2019)]

B. F. Lv, C. M. Petrache , Q. B. Chen, J. Meng, A. Astier, E. Dupont, P. Greenlees, H. Badran, T. Calverley, D. M. Cox, T. Grahn, J. Hilton, R. Julin, S. Juutinen, J. Konki, J. Pakarinen, P. Papadakis, J. Partanen, P. Rakhila, P. Ruotsalainen, M. Sandzelius, J. Saren, C. Scholey, J. Sorri, S. Stolze, J. Uusitalo, B. Cederwall, A. Ertoprak, H. Liu, S. Guo, M. L. Liu, J. G. Wang, X. H. Zhou, I. Kuti, J. Timár, A. Tucholski, J. Srebrny, and C. Andreoiu

(Received 17 October 2020; published 5 January 2021)

DOI: [10.1103/PhysRevC.103.019901](https://doi.org/10.1103/PhysRevC.103.019901)

In our original article, we fixed the level energies via the energies of strong transitions, whereas the energies of the relatively weak and crossover transitions were obtained by directly calculating the energy difference between the initial and the final states using the RADWARE software [1,2], resulting in a χ^2 of almost zero. Instead, all energies of the transitions in the level scheme should come directly from the analysis of original data.

In this Erratum we update the energies of γ -ray transitions in the table with experimental results (Table I) of the original paper with energies obtained by directly fitting the original spectra. In addition, we also added two new transitions in band D6, 558.9, and 953.2 keV, which were not included in the original article. We also changed the spin of the state populated by the 841.4-keV transition deexciting the $29/2^-$ state of band D6 to the $25/2^-$ state of band D5. The correct R_{DCO} ratio of the 841.4-keV transitions is 0.84(28), and, therefore, its multipolarity is $E2$.

The corrected level scheme is presented in Fig. 1. Note that in the text and Fig. 2 of our original paper the transition energies should be replaced by the corresponding ones in boldface in Table I. The other results and conclusions of the original article are not affected.

FIG. 1. The updated partial level scheme of ^{135}Nd showing the newly identified transitions.

TABLE I. List of the γ -ray transition energies in keV in ^{135}Nd . The old energy values are also listed for comparison. All corrected and new added values in table are marked in bold with asterisks and bullets, respectively. In this table, E_γ (original) stands for the γ -ray transition energies of the original paper, and E_γ (new) stands for the correct ones. The energies without asterisks are the same as in the original paper.

E_γ		E_γ		E_γ		E_γ	
Original	New	Original	New	Original	New	Original	New
Band D1							
198.8	198.8	361.7	361.7	667.7	668.0*	855.2	855.2
232.6	232.8*	476.7	476.6*	709.3	709.3	937.8	937.8
250.6	250.8*	560.5	560.4*	727.3	727.3	943.9	943.9
270.1	270.3*	585.1	585.2*	748.2	748.5*	(1024.4)	(1024.4)
276.2	276.0*	594.3	594.3	835.7	835.7	1032.3	1032.3
Band D2							
177.2	177.2	396.3	396.1*	540.5	541.2*	888.6	888.8*
192.4	192.4	397.7	398.3*	544.3	544.5*	911.5	911.3*
203.9	203.9	399.9	399.7*	670.2	670.3*	962.4	962.4
207.5	207.5	416.7	417.0*	759.1	758.9*	965.9	965.9
243.2	243.2	421.9	421.9	814.4	814.4	1161.4	1161.4
301.1	301.1	425.4	425.4	830.4	829.6*	1216.8	1216.8
369.1	369.1	436.3	436.3	834.0	834.0		
381.1	381.5*	450.7	451.0*	838.6	838.6		
390.0	390.0	486.1	486.1	876.1	876.0*		
Band D3							
191.5	191.5	402.9	402.9	612.3	612.4*	917.1	917.3*
235.7	235.7	419.3	419.3	616.0	616.1*	1014.6	1014.6
285.0	285.0	419.9	419.6*	662.9	662.6*	1035.3	1035.0*
328.5	328.5	520.3	520.3	666.2	666.0*	1069.1	1069.0*
334.4	334.4	566.2	566.0*	679.1	679.5*	1073.7	1073.7
376.6	377.0*	580.5	580.2*	704.9	705.5*		
389.0	389.4*	588.6	588.9*	831.8	832.1*		
Band D4							
197.3	197.3	423.4	423.4	672.6	673.0*	1183.9	1183.9
235.7	235.7	589.2	589.0*	749.8	750.2*	1237.2	1237.2
267.6	267.6	596.5	595.9*	780.4	780.0*		
343.5	343.5	649.3	649.0*	918.8	919.1*		
Band D5							
121.0	121.3*	418.3	418.1*	565.0	565.0	900.7	901.2*
129.8	130.0*	438.2	438.2	584.3	584.3	934.9	935.0*
170.4	170.4	444.0	443.7*	640.6	640.6	966.3	966.5*
247.9	247.9	462.4	462.4	649.3	649.1*	1054.0	1054.4*
250.8	250.8	472.4	472.4	714.1	714.1	1125.1	1125.5*
291.1	291.4*	493.9	493.9	735.4	735.0*	1299.2	1299.5*
291.4	291.4	539.0	538.9*	764.5	764.4*		
358.2	358.2	560.1	560.1	835.1	835.1		
406.3	406.3	565.0	564.8*	844.5	844.9*		
Band D6							
173.0	173.0	512.4	512.4	668.4	668.4	934.9	934.9
225.8	225.8	558.9*	558.9*	671.0	671.2*	949.6	950.5*
282.4	282.4	591.4	591.5*	681.0	681.2*	953.2*	953.2*
309.4	309.4	591.8	592.3*	812.0	812.4*	963.0	963.5*
371.6	371.6	608.8	608.5*	841.4	841.2*	998.1	997.5*
440.4	440.4	640.2	640.4*	896.8	897.4*	1071.3	1071.1*
463.0	462.5*	648.9	649.2*	931.3	931.5*		

The authors would like to thank the data scientists at the National Nuclear Data Center for checking the data.