


Erratum: Identification of pseudospin partner bands in ^{108}Tc [Phys. Rev. C **78, 064301 (2008)]**

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We report several corrections to the original paper.

In our original publication of level scheme of ^{108}Tc , we determined level energies based on certain transitions and subsequently adjusted the raw data for other transitions to fit these energies. This is not correct scientific procedure as it alters original data, and it risks introducing incorrect transition and level energies into the literature. The main purpose of this Erratum is to provide the original data.

In this Erratum, a new level scheme of ^{108}Tc is illustrated in Fig. 1, accompanied by their new transition energies listed in Table I. An energy recalibration was applied, resulting in numerical adjustments. Everywhere in the text where our original paper specified transition or level energies, these should be replaced by the corresponding new ones in Table I of the present Erratum.

There is a change made to the level scheme. The original 633.1 keV transition is assigned as tentative in this Erratum.

In Fig. 2 of the original paper, several transition energy positions were not correctly labeled. Namely, they are 259.8, 270.0, 319.4, 409.2, 424.3, 506.6, 829.7, and 849.5. We include the original figure but with the new transition positions labeled in red as Fig. 2 in this Erratum. To clearly specify the origin of the peaks, the original transition energies are used. Note that those energies should be replaced by the new numbers in the Table I of this Erratum. The 632 keV peak in the figure mainly comes from the strong contamination from the ^{141}Cs fission partner. The 633 keV transition in the fission partner ^{140}Cs may contribute a little of the peak. The tentative 633 keV transition in ^{108}Tc only contributes a very small portion of the peak. The 849.5 keV transition is shifted to 847.7 keV in this Erratum. Note that by each gamma ray energy the old and new level energies are given.

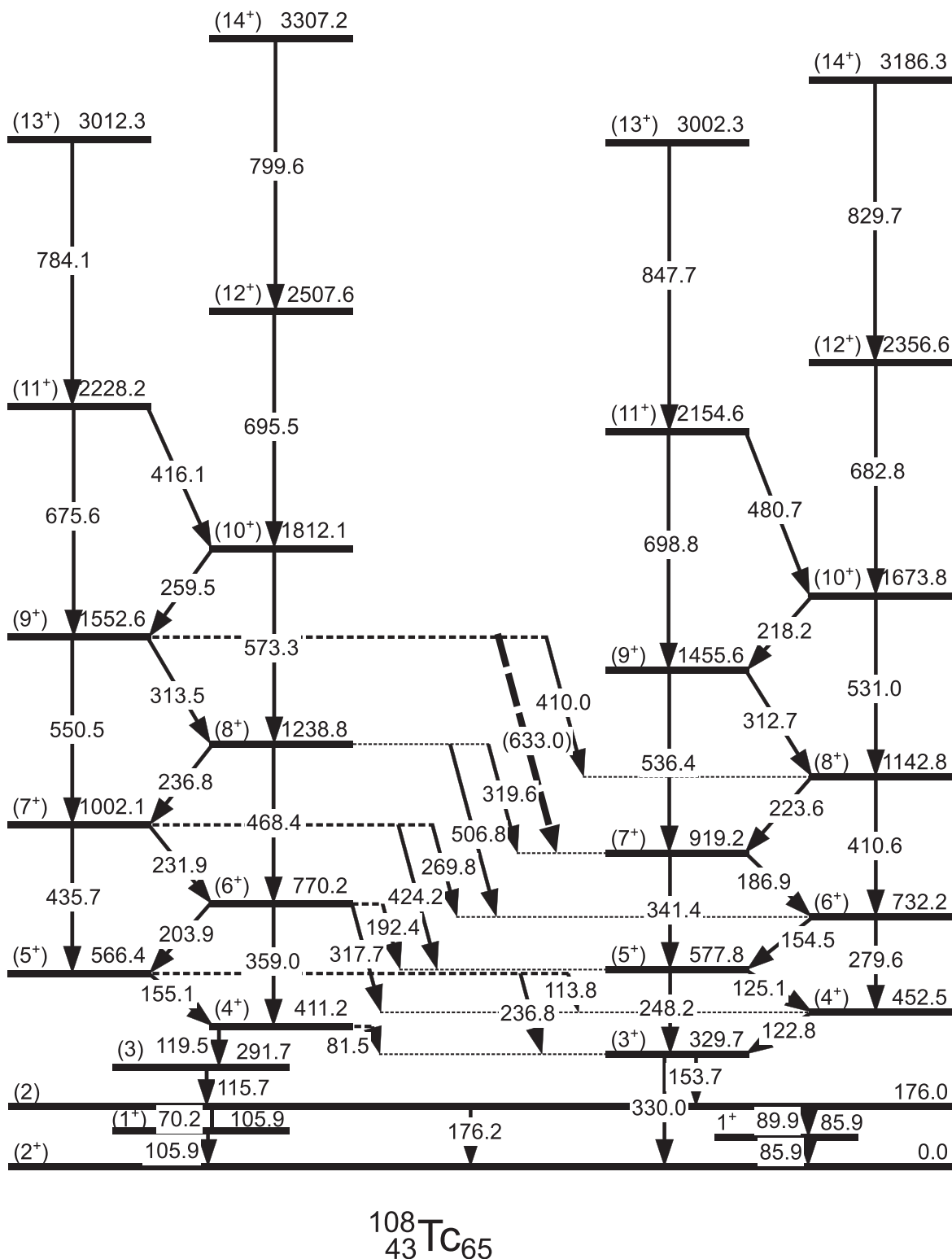


FIG. 1. Level scheme of ^{108}Tc . The tentative 633.0 keV transition is labeled with parentheses. Energies are given in keV.

TABLE I. List of the γ -ray transition energies in keV in ^{108}Tc . The old energy values from the original paper are also listed for comparison. A tentative transition is listed with parentheses.

E_γ (keV)		E_i (keV)	
Original	New	Original	New
70.3	70.2	176.5	176.0
81.9	81.5	412.5	411.2
86.1	85.9	86.1	85.9
90.4	89.9	176.5	176.0
106.2	105.9	106.2	105.9
113.9	113.8	567.7	566.4
116.1	115.7	292.6	291.7
119.9	119.5	412.5	411.2
123.2	122.8	453.8	452.5
125.5	125.1	579.3	577.8
154.1	153.7	330.6	329.7
154.3	154.5	733.6	732.2
155.2	155.1	567.7	566.4
176.5	176.2	176.5	176.0
187.2	186.9	920.8	919.2
192.4	192.4	771.7	770.2
204.0	203.9	771.7	770.2
218.4	218.2	1675.9	1673.8
223.9	223.6	1144.7	1142.8
231.9	231.9	1003.6	1002.1
236.6	236.8	1240.2	1238.8
237.1	236.8	567.7	566.4
248.7	248.2	579.3	577.8
259.8	259.5	1813.7	1812.1
270.0	269.8	1003.6	1002.1
279.8	279.6	733.6	732.2
312.8	312.7	1457.5	1455.6
313.7	313.5	1553.9	1552.6
317.9	317.7	771.7	770.2
319.4	319.6	1240.2	1238.8
330.6	330.0	330.6	329.7
341.5	341.4	920.8	919.2
359.2	359.0	771.7	770.2
409.2	410.0	1553.9	1552.6
411.1	410.6	1144.7	1142.8
415.8	416.1	2229.5	2228.2
424.3	424.2	1003.6	1002.1
435.9	435.7	1003.6	1002.1
468.5	468.4	1240.2	1238.8
480.5	480.7	2156.4	2154.6
506.6	506.8	1240.2	1238.8
531.2	531.0	1675.9	1673.8
536.7	536.4	1457.5	1455.6
550.3	550.5	1553.9	1552.6
573.5	573.3	1813.7	1812.1
633.1	(633.0)	1553.9	1552.6
675.6	675.6	2229.5	2228.2
682.7	682.8	2358.6	2356.6
695.5	695.5	2509.2	2507.6
698.9	698.8	2156.4	2154.6
784.0	784.1	3013.5	3012.3
800.3	799.6	3309.5	3307.2
829.7	829.7	3188.3	3186.3
849.5	847.7	3005.9	3002.3

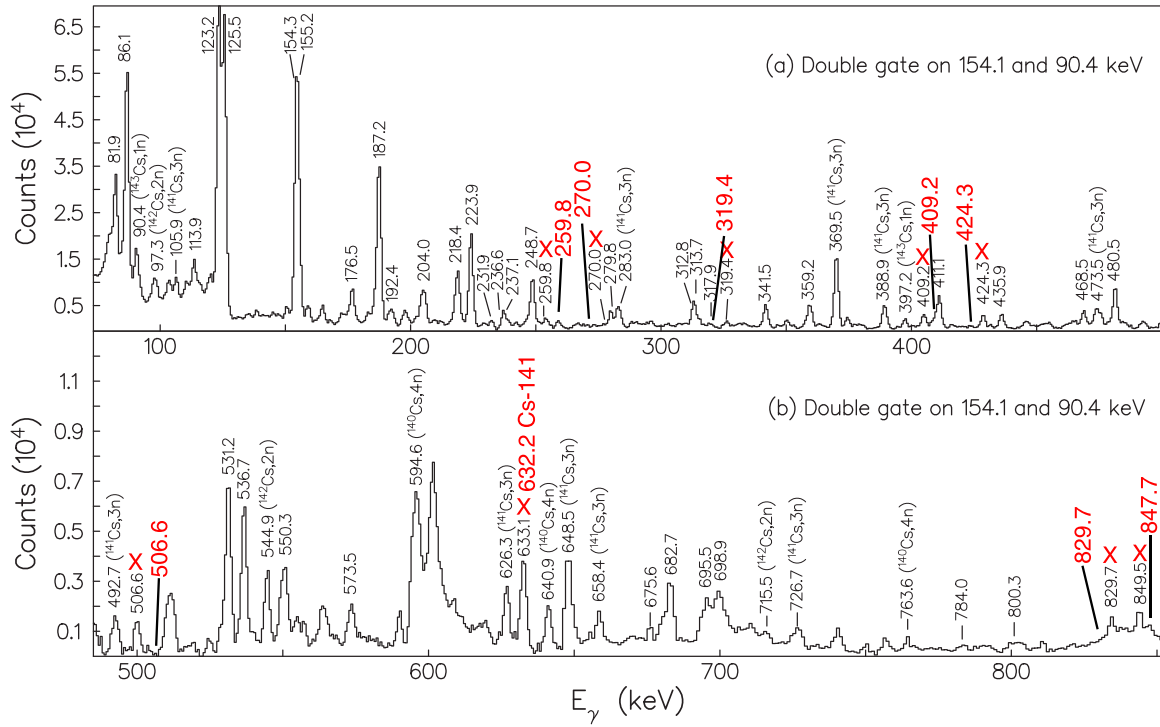


FIG. 2. Figure 2 of the original paper showing 150.1/90.4 gated spectrum. Modifications are added. The wrong energy labels are marked with an “X”. The correct labels with positions are in red.

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