Erratum: Identification of collective bands in neutron-rich ^{113}Ru [Phys. Rev. C 67, 064307 (2003)]

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We report several corrections to the numerical data in the original paper on ^{113}Ru.

In our original publication of level schemes in Fig. 3, we defined level energies based on certain transitions and then adjusted the raw data for other transitions to fit those energies. This is not correct scientific procedure as it alters original data to match preconceived beliefs and it has the danger of introducing incorrect transition and level energies into the literature. The main purpose of this Erratum is to provide the original data.

We also note that there were inconsistencies of the transition energies in the original paper. As an example, in Figs. 1 and 2 of the original paper, the captions listed an energy with 113.2 keV. In contrast, in the top part of the same figures, this transition was labeled with 113.4 keV. Furthermore, on p. 2 of the original paper, the main text stated 113.3 keV. However, everywhere in the text where our original paper specified transition or level energies, these should now be replaced by the corresponding ones in Table I. The new level scheme of ^{113}Ru is shown in Fig. 1.

We note that, in the original paper, the whole level scheme was proposed to directly feed the ground state of ^{113}Ru. Meanwhile, in a later publication (Ref. [1]), all the transitions were proposed to feed an unknown isomer located between 98 and 164 keV. Those assignments are adopted in the present Erratum.

In Fig. 2 of the original paper, a peak was labeled with 1219 keV and ^{137}Xe. The peak is located at 1221 keV and it is a doublet with 1220 keV from ^{137}Xe and 1222 keV from ^{135}Xe.

TABLE I. List of the γ-ray transition energies in keV in ^{113}Ru. The old energy values from Fig. 3 of the original paper are also listed for comparison. Note that the new level energies all have an x keV bias because of the isomer with an unknown energy.

E_γ		E_i	
original	new	original	new
113.4	**112.9**	113.4	**112.9**
147.1	**146.7**	260.4	**259.8**
154.0	**154.2**	676.5	**675.7**
260.4	**260.0**	260.4	**259.8**
262.1	**261.7**	522.5	**521.5**
405.9	**404.8**	1082.4	**1080.5**
409.2	**408.5**	522.5	**521.5**
416.1	**415.9**	676.5	**675.7**
559.9	**559.0**	1082.4	**1080.5**
562.3	**562.3**	1238.8	**1238.0**
696.8	**696.8**	1935.6	**1934.8**
804.5	**804.4**	2740.1	**2739.2**
872.0	**872.3**	3612.1	**3611.5**

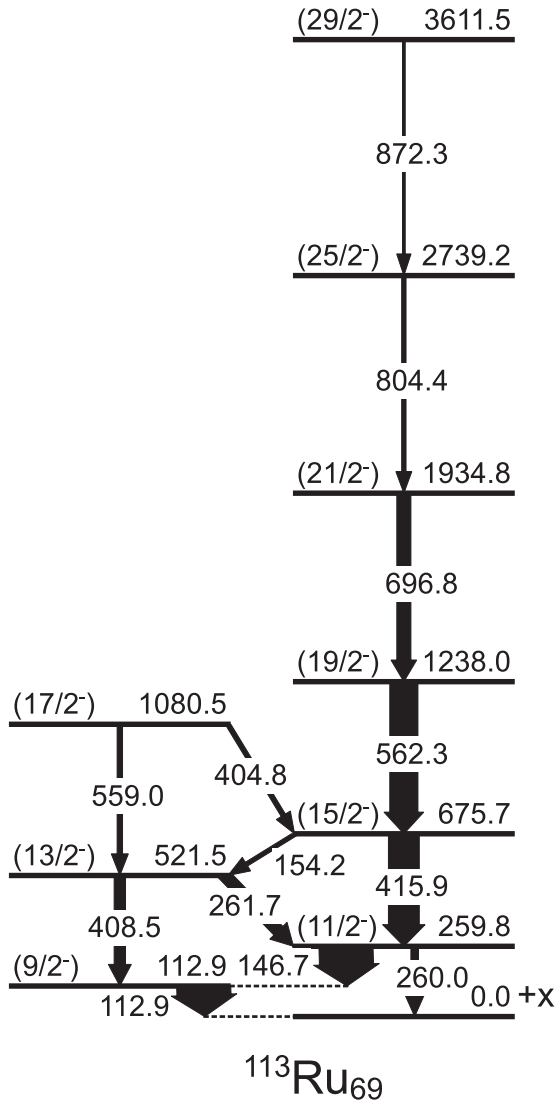

FIG. 1. Level scheme showing levels and transitions in ^{113}Ru.

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[1] J. Kurpeta *et al.*, Eur. Phys. J. A **33**, 307 (2007).