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原子力機構東海タンデム加速器 2008 年度年次報告

List of errata

正誤表

	Error	Correct
p.80	<p>Unfortunately, the spins and parities of K isotopes beyond N=28 have not been measured yet. In Fig. 2, the energy levels of <math>^{48}\text{K}</math>, only the energy level available beyond N=28, are compared between an experiment (performed by T. Ishii et al. with the JAEA Tandem) [5] and the present calculation. The observed four levels appear to correspond to <math>2^-</math>, <math>2^-</math>, <math>3^-</math>, and <math>5^+</math> from the lowest. Since the <math>\gamma</math> ray from the 728 keV state (see likely to be the ground state from the <math>\gamma</math> ray at <math>2^-</math> is more likely. This contradiction can be is strongly hindered. It comes true if the former</p>	<p>Unfortunately, the spins and parities of K isotopes beyond N=28 have not been measured yet. In Fig. 2, the energy levels of <math>^{48}\text{K}</math>, only the energy level available beyond N=28, are compared between an experiment (performed by T. Ishii et al. with the JAEA Tandem) [5] and the present calculation. The observed four levels appear to correspond to <math>2^-</math>, <math>2^-</math>, <math>3^-</math>, and <math>5^+</math> from the lowest. Since the <math>\gamma</math> ray from the 728 keV state (see Fig. 2) to the ground state was not observed, <math>1^-</math> is more likely to be the ground state from the <math>\gamma</math> ray experiment. On the other hand, from a <math>\beta</math> decay experiment <math>2^-</math> is more likely. This contradiction can be resolved if the M1 decay from the <math>3^-</math> to the <math>2^-</math> ground state is strongly hindered. It comes true if the former is the pure <math>\pi(0d_{3/2})^{-1}\nu(1p_{3/2})^1</math> and the latter is <math>\pi(1s_{1/2})^{-1}\nu(1p_{3/2})^1</math>. Although the actual calculation gives a <math>B(M1; 3^- \text{ to } 2^-)</math> which is not sufficiently small to account for the experiment, this direction seems to be promising to explain the confusing situation.</p>