^{94}Zr(n,γ) E=2,24 keV 1978KeZT

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni	NDS 111, 2555 (2010)	30-Jun-2009

Measured γ's; Ge(Li). Other: 1972BiZS.

^{95}Zr Levels

E(level)†	J$^{\pi}$‡
0.0	$5/2^+$
955	$1/2^+$
1324	$3/2^+,5/2^+$
1618	$(3/2)^+$
1956	$5/2^{(+)}$
2294	$3/2^+,5/2^+$
6464.3	$1/2^+$
6486.3	$1/2^-,3/2^-$

† S(n)=6462.3 *9* (2003Au03).
‡ From the Adopted Levels, except for the s-wave and p-wave n-capture states.

γ(^{95}Zr)

E$_\gamma$†	I$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
4171	12.6 *13*	6464.3	$1/2^+$	2294	$3/2^+,5/2^+$
4193	6.6 *8*	6486.3	$1/2^-,3/2^-$	2294	$3/2^+,5/2^+$
4531	2.8 *4*	6486.3	$1/2^-,3/2^-$	1956	$5/2^{(+)}$
4847	9.6 *10*	6464.3	$1/2^+$	1618	$(3/2)^+$
4869	5.3 *7*	6486.3	$1/2^-,3/2^-$	1618	$(3/2)^+$
5141	30.1 *30*	6464.3	$1/2^+$	1324	$3/2^+,5/2^+$
5163	2.6 *4*	6486.3	$1/2^-,3/2^-$	1324	$3/2^+,5/2^+$
5510	27.6 *28*	6464.3	$1/2^+$	955	$1/2^+$
5532	28.0 *28*	6486.3	$1/2^-,3/2^-$	955	$1/2^+$
6486	28.0 *28*	6486.3	$1/2^-,3/2^-$	0.0	$5/2^+$

† Calculated from the differences in excitation energies.

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Level Scheme

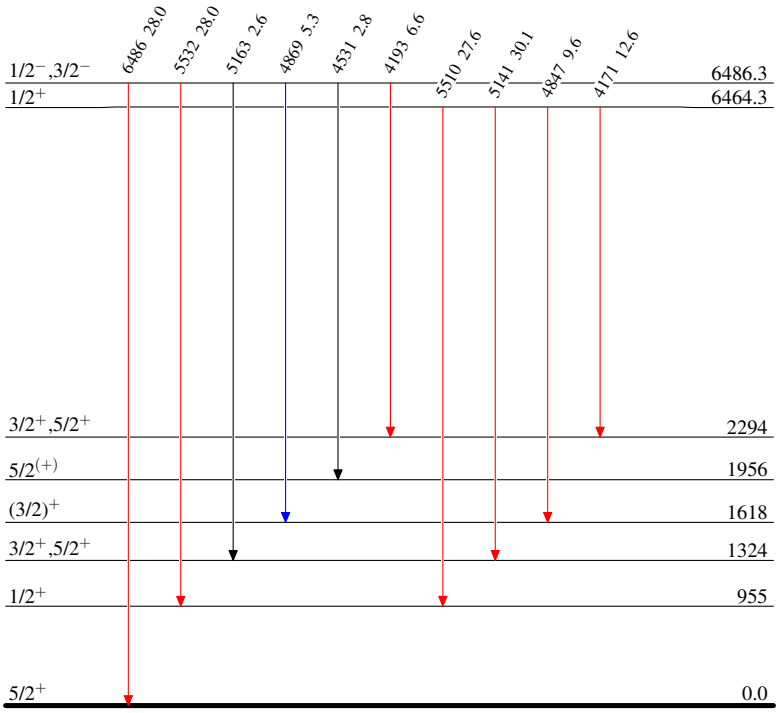
Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



$^{95}_{40}Zr_{55}$